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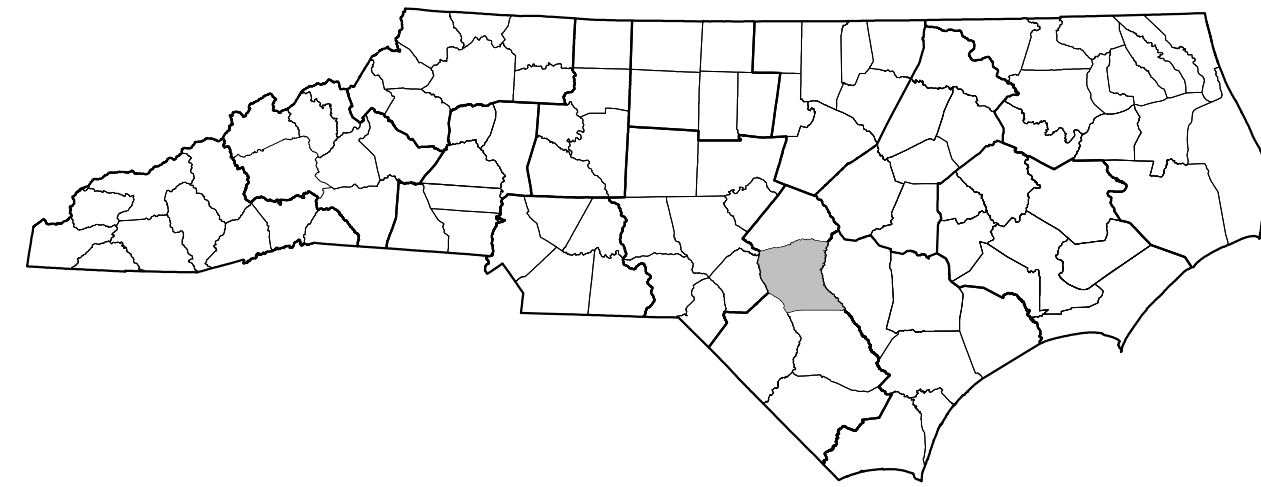
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

TRANSPORTATION MANAGEMENT PLAN

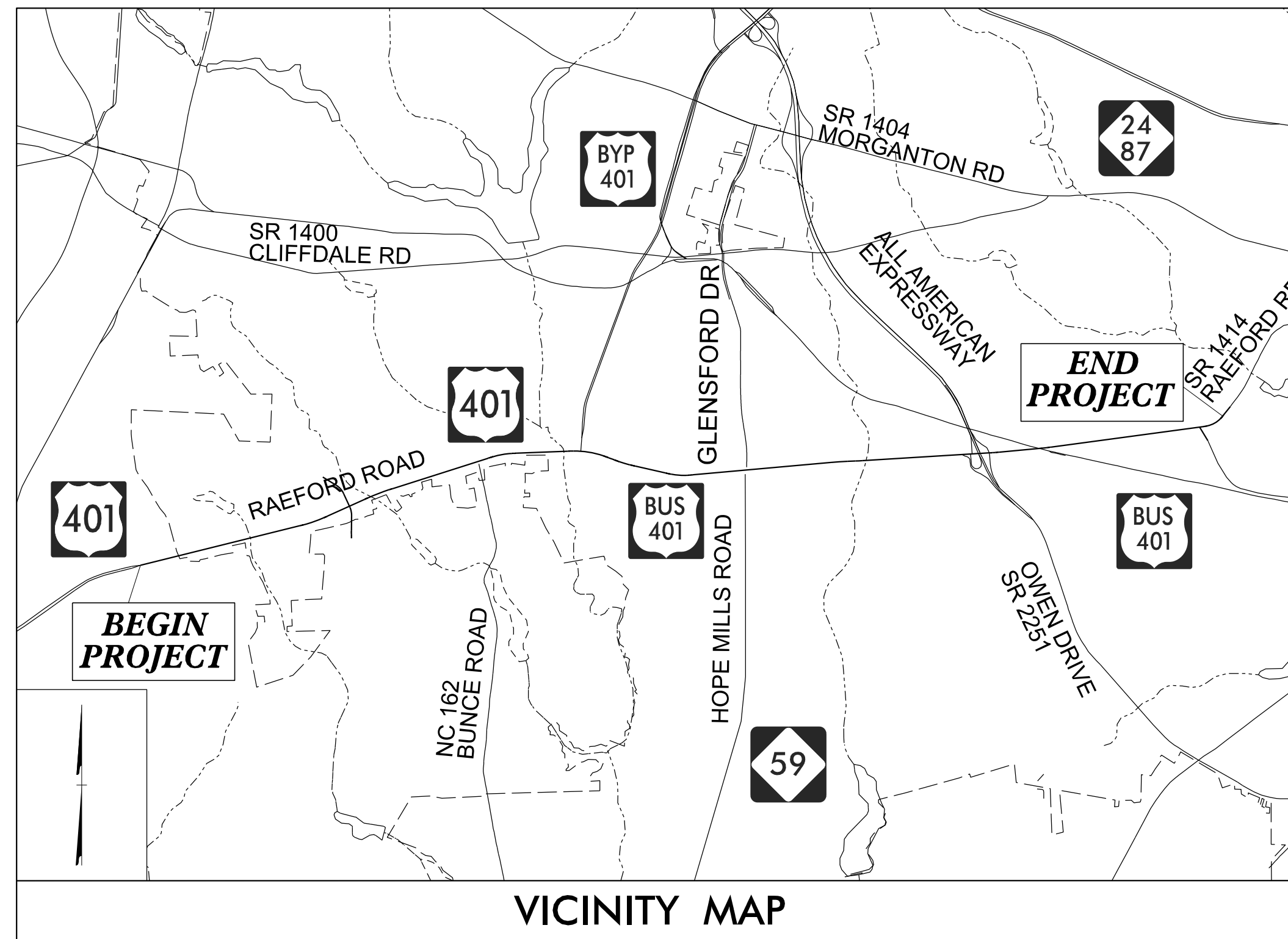
CUMBERLAND COUNTY

DIVISION 6



US 401 FROM WEST OF HAMPTON OAKS DRIVE TO EAST OF FAIRWAY DRIVE IN FAYETTEVILLE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, WIDENING, RESURFACING & STRUCTURE



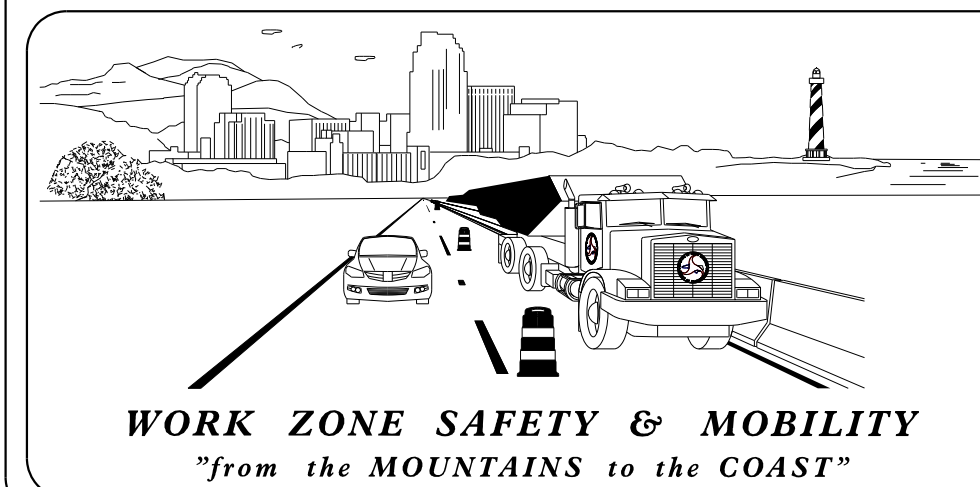
VICINITY MAP

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TMP-30	US 401 -L- AT -Y29- PHASE III INTERSECTION DETAIL
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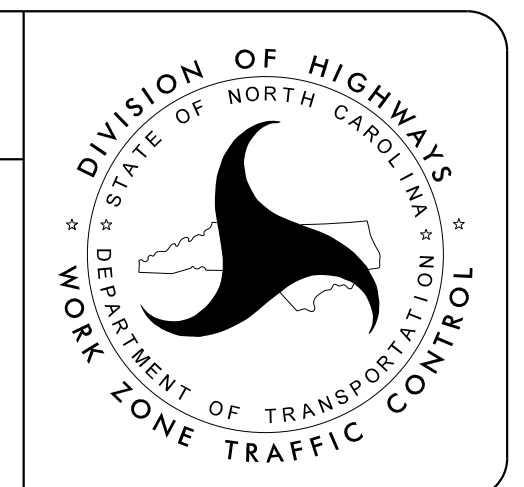
TIP PROJECT: U-4405

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ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

LEGEND

GENERAL

- DIRECTION OF TRAFFIC FLOW
- EXIST. PVMT.
- PROPOSED PVMT.
- NORTH ARROW
- TEMP. SHORING (LOCATION PURPOSES ONLY)
- WORK AREA
- PREVIOUSLY STARTED / CONCURRENT CONSTRUCTION
- PAVEMENT REMOVAL
- TEMPORARY PAVEMENT

PAVEMENT MARKINGS

- | | |
|--|---------------------|
| | EXISTING LINES |
| | TEMPORARY MARKINGS |
| | PREVIOUSLY PLACED |
| | WHITE EDGE LINE |
| | YELLOW EDGE LINE |
| | BROKEN LANE LINES |
| | MINISKIP LANE LINES |
| | DOUBLE YELLOW LINES |
| | GORELINE |
| | STOP BAR |

PAVEMENT MARKING SYMBOLS

- EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
- TEMPORARY SYMBOLS
- PREVIOUSLY PLACED
- PAVEMENT MARKING SYMBOLS ONLY
- PAVEMENT MARKING ALPHANUMERIC CHARACTERS ONLY

TRAFFIC CONTROL DEVICES

- | TEMPORARY DEVICES | PREVIOUSLY PLACED | |
|-------------------|-------------------|--------------------------------|
| | | BARRICADE (TYPE III) |
| | | CONE |
| | | DRUM |
| | | FLASHING ARROW BOARD |
| | | FLAGGER |
| | | LAW ENFORCEMENT |
| | | TRUCK MOUNTED ATTENUATOR (TMA) |
| | | CHANGEABLE MESSAGE SIGN |
| | | TEMPORARY CRASH CUSHION |
| | | PORTABLE CONCRETE BARRIER |

SIGNALS

- | | | | | | |
|--|----------|--|----------|--|-----------|
| | EXISTING | | PROPOSED | | TEMPORARY |
|--|----------|--|----------|--|-----------|

TEMPORARY SIGNING

- | TEMPORARY SIGNS | PREVIOUSLY PLACED | |
|-----------------|-------------------|-----------------------------|
| | | PORTABLE SIGN |
| | | STATIONARY SIGN |
| | | STATIONARY OR PORTABLE SIGN |

PAVEMENT MARKERS

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

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

ROADWAY STANDARD
DRAWINGS,
AND LEGEND

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 UNDESIRABLE 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.

THIS PROJECT IS DIVIDED IN TO FOUR (4) SECTIONS AS FOLLOWS:

-L- SECTION 1: BEGINNING OF PROJECT TO -Y5- (STRICKLAND BRIDGE RD) [STA. 76+50 -L-]

-L- SECTION 2: -Y5- (STRICKLAND BRIDGE RD) [STA. 76+50 -L-] TO -Y13- (SKIBO RD) [STA. 142+65 -L-]

-L- SECTION 2A: NB -L- FROM STA. 75+60 TO STA. 95+00
 SB -L- FROM STA. 75+60 TO STA. 123+50
 -L- SECTION 2B: NB -L- FROM STA. 95+00 TO STA. 142+65
 SB -L- FROM STA. 123+50 TO STA. 142+65

-L- SECTION 3: -Y13- (SKIBO RD) [STA. 142+65 -L-] TO -Y30- (OWEN DRIVE) [STA. 267+00 -L-]

-L- SECTION 4: -Y30- (OWEN DRIVE) [STA. 267+00 -L-] TO END OF PROJECT

TIME RESTRICTIONS

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

PHASE I, II, AND III RESTRICTIONS
 DO NOT CLOSE TWO (2) TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- SECTION 2B	6:00 AM TO 7:00 PM
-L- SECTION 3	MONDAY THRU SUNDAY
-L- SECTION 4	
-Y13- (SKIBO RD.)	

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

FOR ALL ROADS

- 1)FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2)FOR EASTER, BETWEEN THE HOURS OF 6:00 AM THURSDAY AND 7:00 PM MONDAY.
- 3)FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.
- 4)FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 AM THE DAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 AM THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 PM THE TUESDAY AFTER INDEPENDENCE DAY.
- 5)FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 AM FRIDAY TO 7:00 PM TUESDAY.

FOR -L- SECTION 1, -L- SECTION 2, -Y50-, -Y51-, -Y52-, -Y53-, -Y1-, -Y2-, -Y4-, -Y5-, -Y6-, -Y7-, -Y9-, -Y10-, -Y11-, -Y12-

- 1)FOR NEW YEAR*S DAY, BETWEEN THE HOURS OF 6:00 AM DECEMBER 31ST TO 7:00 PM JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY, THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.
- 2)FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 AM TUESDAY TO 7:00 PM MONDAY.
- 3)FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 AM THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 PM THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

FOR -L- SECTION 3, -L- SECTION 4, -Y13-, -Y14-, -Y15-, -Y16-, -Y18-, -Y21-, -Y23-, -Y25-, -Y26-, -Y28-, -Y29-, -Y30-, -Y31-, -Y35-, -Y36-, -Y39-, -Y40-, -Y43-, -Y44-

- 1)FOR CHRISTMAS SEASON, BETWEEN THE HOURS OF 6:00 AM THE TUESDAY BEFORE THANKSGIVING TO 7:00 PM JANUARY 2ND. IF NEW YEAR*S DAY IS ON A FRIDAY, L) SATURDAY, SUNDAY, OR MONDAY, THEN UNTIL 7:00 PM THE FOLLOWING TUESDAY.

C)DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
ALL ROADS	6:00 AM TO 7:00 PM MONDAY THRU SUNDAY	15 MINUTES TRAFFIC SHIFTS

D) DO NOT CONDUCT SINGLE OR MULTIPLE VEHICLE HAULING AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
-L- SECTION 1	6:00 AM TO 7:00 PM
-L- SECTION 3	MONDAY THRU SUNDAY
-L- SECTION 4	

-L- SECTION 2	6:00 AM TO 9:00 AM 4:00 PM TO 7:00 PM MONDAY THRU SUNDAY
---------------	--

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 TRANSPORTATION MANAGEMENT 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 0.5 MILES OF LANE CLOSURE ON RAEFORD RD (-L-) MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

K) IN PHASES I AND II DO NOT INSTALL MORE THAN 2 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON RAEFORD RD (-L-). IN PHASE III DO NOT INSTALL MORE THAN 3 SIMULTANEOUS LANE CLOSURES IN ANY ONE DIRECTION ON RAEFORD RD (-L-).

L) PROVIDE A MINIMUM OF 1 MILE BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE BEGINNING OF THE MERGE TAPER OF THE NEXT LANE CLOSURE.

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

PAVEMENT EDGE DROP OFF REQUIREMENTS

N) 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.


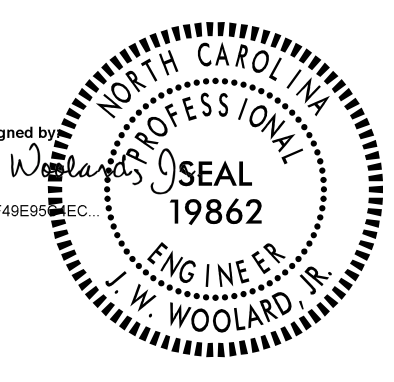
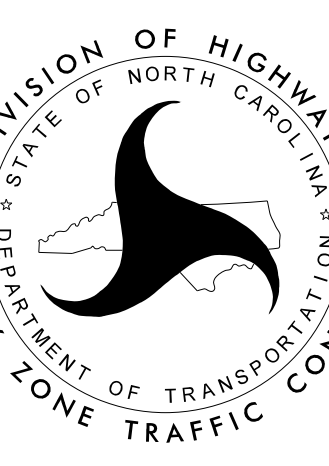
BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

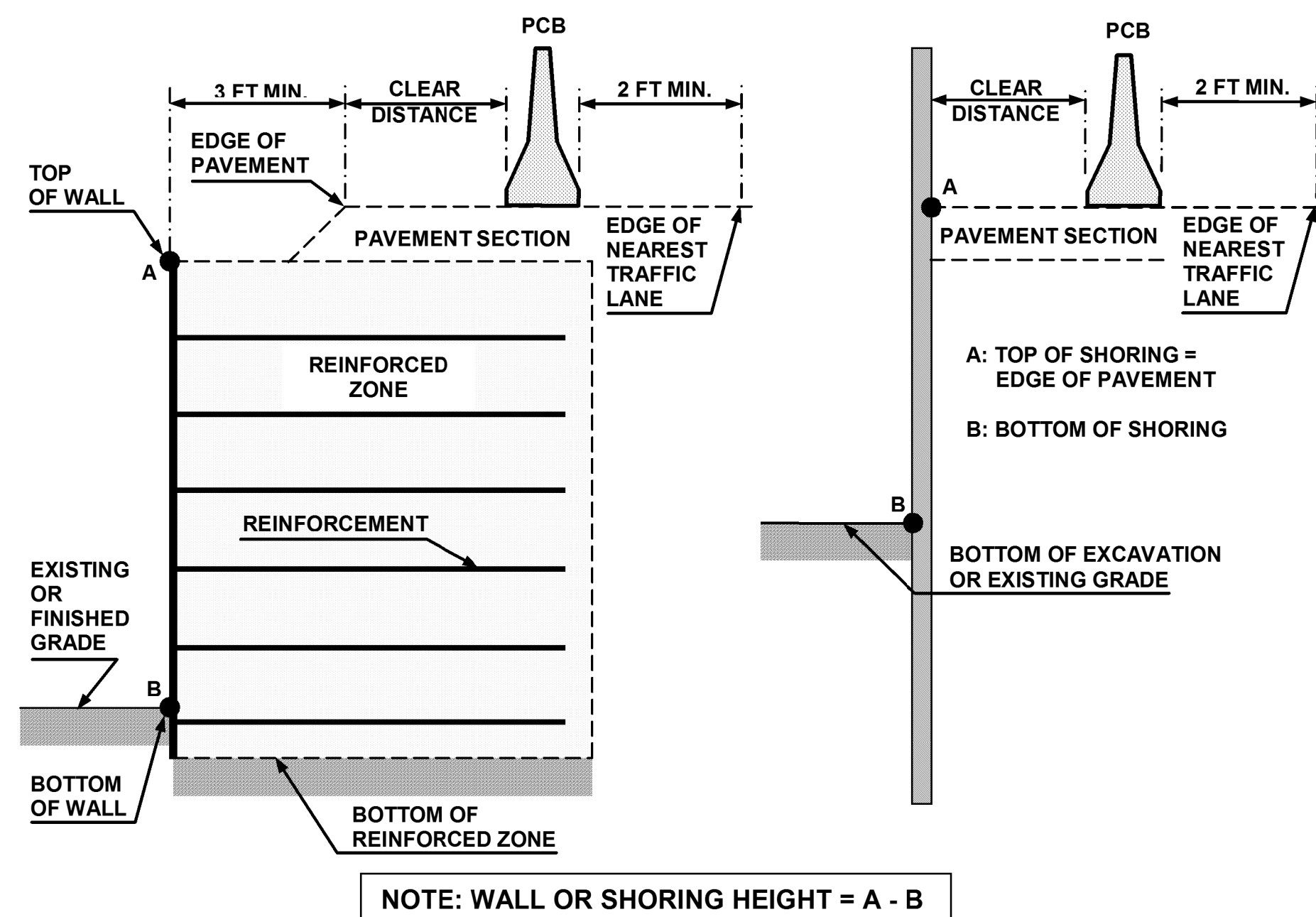
O) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 500 FT IN ADVANCE AND A MINIMUM OF ONCE EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

P) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

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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" 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

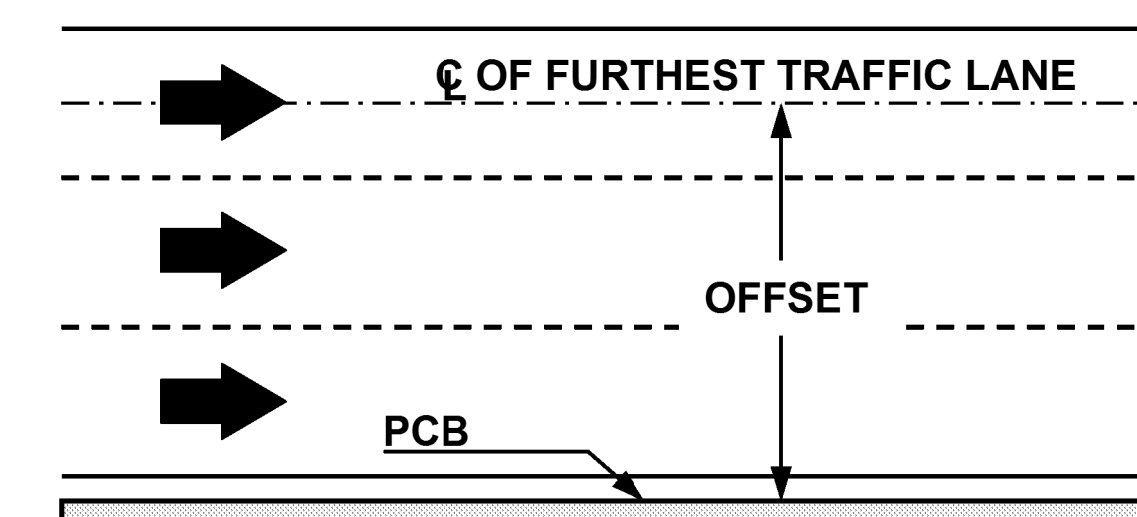
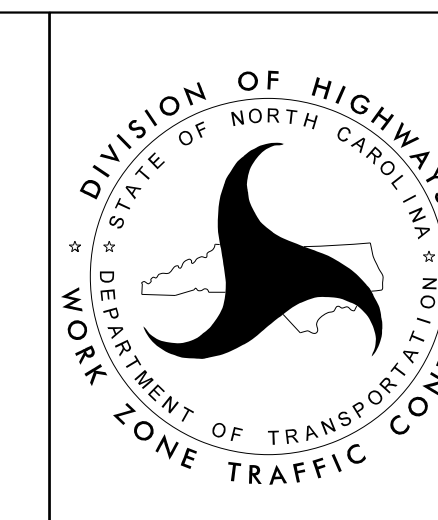


FIGURE B

DETAIL PROVIDED BY NCDOT



PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

SEE SHEET TMP-4

TEMPORARY SHORING LOCATION NO. 01 ESTIMATED QUANTITY = 2145.0 SF

-L- STA. 137+28±, 50'± RT TO -L- STA. 138+71±, 50'± RT
 LENGTH=143' AVERAGE HEIGHT = 15.0 FT MAXIMUM HEIGHT = 15.7 FT

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING,
 SEE PLANS AND TEMPORARY SHORING PROVISION.

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY
 EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO
 DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 137+28±, 50' RT, TO STATION
 -L- 138+71±, 50' RT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND
 GROUNDWATER ELEVATION:
 UNIT WEIGHT, (γ) = 120 LB/CF
 FRICTION ANGLE, (ϕ) = 30 DEGREES
 COHESION, (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 136.0 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L-
 137+28±, 50' RT, TO STATION -L- 138+71±, 50' RT.

SEE SHEET TMP-4

TEMPORARY SHORING LOCATION NO. 02 ESTIMATED QUANTITY = 1602.3 SF

-L- STA. 137+14±, 50'± LT TO -L- STA. 138+61±, 50'± LT
 LENGTH=147' AVERAGE HEIGHT = 10.9 FT MAXIMUM HEIGHT = 14.5 FT

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING,
 SEE PLANS AND TEMPORARY SHORING PROVISION.

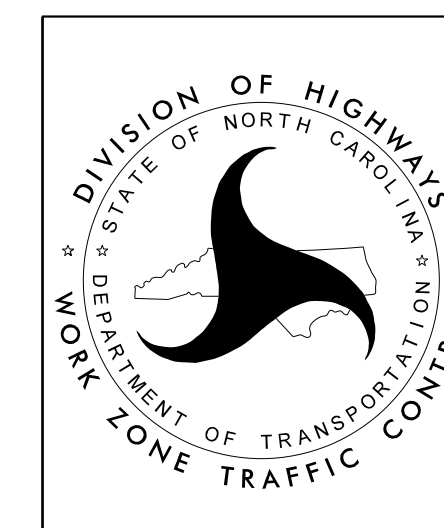
BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY
 EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO
 DETERMINE ACTUAL SHORING HEIGHTS.

DESIGN TEMPORARY SHORING FROM STATION -L- 137+14±, 50' LT, TO STATION
 -L- 138+61±, 50' LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND
 GROUNDWATER ELEVATION:
 UNIT WEIGHT, (γ) = 120 LB/CF
 FRICTION ANGLE, (ϕ) = 30 DEGREES
 COHESION, (c) = 0 LB/SF
 GROUNDWATER ELEVATION = 139.0 FT

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L-
 137+14±, 50' LT, TO STATION -L- 138+61±, 50' LT.

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THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE
 GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO THE EASTERN WZTC ENGINEER ON
 SEPTEMBER 13, 2017 AND SEALED BY A PROFESSIONAL ENGINEER, THEIN TUN ZAN, LICENSE #030943.

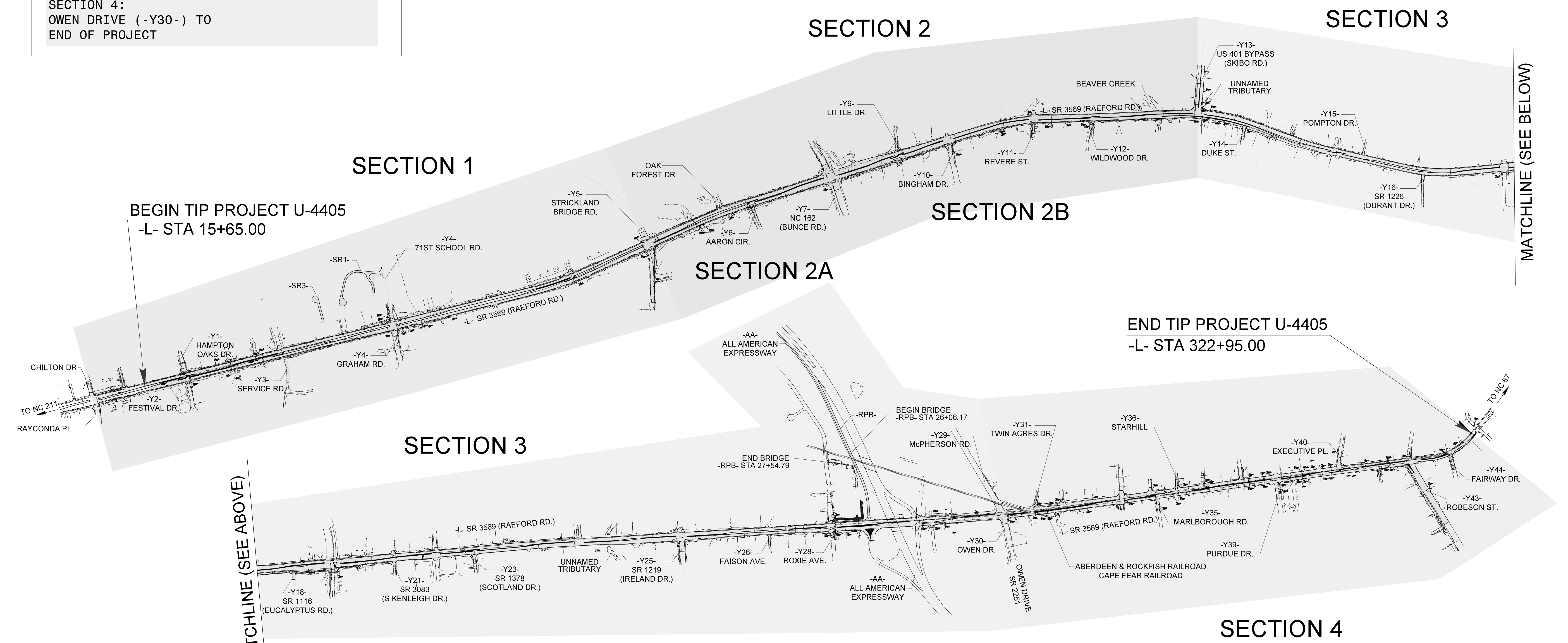
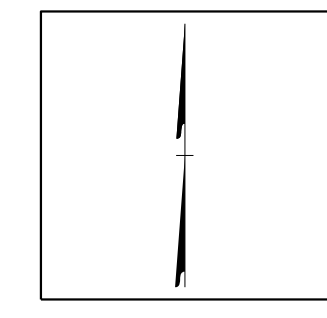


TEMPORARY
 SHORING
 NOTES

SECTION DESIGNATIONS

- SECTION 1:**
BEGINNING OF PROJECT TO
STRICKLAND BRIDGE ROAD (-Y5-)
- SECTION 2:**
STRICKLAND BRIDGE ROAD (-Y5-)
TO SKIBO ROAD (-Y13-)
2A: NB -L- STA. 75+60 TO STA. 95+00
SB -L- STA. 75+60 TO STA. 123+50
2B: NB -L- STA. 95+00 TO STA. 142+65
SB -L- STA. 123+50 TO STA. 142+65
- SECTION 3:**
SKIBO ROAD (-Y13-) TO
OWEN DRIVE (-Y30-)
- SECTION 4:**
OWEN DRIVE (-Y30-) TO
END OF PROJECT

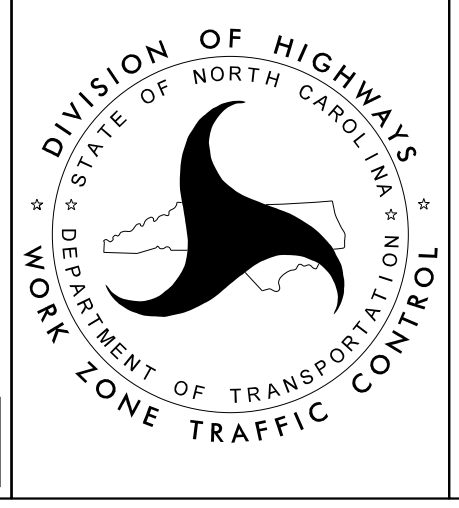
PROJ. REFERENCE NO.	SHEET NO.
U-4405	TMP-2B



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**SECTION
AND
TIME RESTRICTION
DETAIL**

MATCHLINE (SEE BELOW)

MATCHLINE (SEE ABOVE)

PHASE I

STEP 1:

USING RSD 1101.01 INSTALL ADVANCE WARNING SIGNS ON -L- AND ALL -Y- LINES.

CHANGE SPEED LIMIT SIGNS TO 45 MPH AT THE BEGINNING OF THE PROJECT PER THE SPEED ORDINANCE AND AS SHOWN IN THE SIGNING PLANS.

STEP 2:

CONTRACTOR MAY BEGIN THE FOLLOWING:

-PLACE PCB ON ALL AMERICAN EXPRESSWAY FROM STA. 59+50+/- -AA- TO STA. 74+50+/- -AA- AS SHOWN ON TMP-5.

-CONSTRUCTION OF RAMP B (-RPB-), INCLUDING PROPOSED GUARDRAIL, NOISE WALLS AND PROPOSED STRUCTURE, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE FROM STA. 74+23+/- -AA- TO STA. 10+00+/- -RPB- AND FROM STA. 10+00+/- -RPB- TO STA. 34+00+/- -RPB-.

STEP 3:

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEET TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM BEGINNING OF PROJECT TO STA. 76+50 -L- (STRICKLAND BRIDGE RD.):

-RIGHT SIDE OF -L- SECTION 1, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

USING FLAGGERS AND RSD 1101.02, CONSTRUCT ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-USING FLAGGERS AND RSD 1101.02 AS NEEDED, BEGIN -SR1- AND -SR3-

NOTE: -SR1- AND -SR3- MUST BE CONSTRUCTED DURING SUMMER MONTHS, AND CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THESE SERVICE ROADS WITH SCHOOL OFFICIALS. [SEE PROJECT SPECIAL PROVISIONS]

--Y2- AND -Y3-, SOUTH SIDE OF -Y4- AND THE SOUTH SIDE OF -Y5- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 54" PIPE ACROSS -Y4-.

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN 8:00 PM AND 5:00 AM MONDAY THROUGH SUNDAY.

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: CONSTRUCT PHASE I, STEP 3B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

B) CONSTRUCT RIGHT SIDE OF 66" RCP AT STA. 46+71+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

STEP 4:

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 76+50 -L- TO STA. 142+65 -L- (STRICKLAND BRIDGE RD. TO SKIBO RD.):

-RIGHT SIDE OF -L- SECTION 2, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

USING FLAGGERS AND RSD 1101.02, CONSTRUCT ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

--Y6-, SOUTH SIDE OF -Y7-, -Y10-, -Y11-, AND -Y12- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: CONSTRUCT PHASE I, STEP 4B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

B) CONSTRUCT RIGHT SIDE OF 42" RCP AT STA. 78+25+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

STEP 5:

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 142+65 -L- TO STA. 267+00 -L- (SKIBO RD. TO OWEN DR.):

-RIGHT SIDE OF -L- SECTION 3, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1) (SEE TMP-12)

ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-Y14-, -Y16-, -Y18-, -Y21-, -Y23-, -Y25-, -Y 26-, -Y28- AND -Y30- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

1. USING A ROAD CLOSURE AS SHOWN ON TMP-10, CLOSE -Y18- AT -L- AND CONSTRUCT THE 48" PIPE ACROSS -Y18- IN 58 CONSECUTIVE HOURS FROM 9:00 PM FRIDAY TO 5:00 AM MONDAY (SEE PROJECT SPECIAL PROVISIONS).

2. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 42" PIPE ACROSS HOPE MILLS ROAD IN A CONTINUOUS MANNER.

3. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 42" PIPE ACROSS -Y23- IN A CONTINUOUS MANNER.

4. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 54" PIPE ACROSS -Y25- IN A CONTINUOUS MANNER.

5. USING A ROAD CLOSURE AS SHOWN ON TMP-11, CLOSE -Y26- AT -L- AND CONSTRUCT THE 48" PIPE ACROSS -Y26- IN 58 CONSECUTIVE HOURS FROM 9:00 PM FRIDAY TO 5:00 AM MONDAY (SEE PROJECT SPECIAL PROVISIONS).

6. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 42" PIPE ACROSS -Y28- IN A CONTINUOUS MANNER.

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOUSE:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: COMPLETE PHASE I, STEP 5B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY). [SEE SPECIAL PROVISIONS]

B) CONSTRUCT RIGHT SIDE OF 48" RCP AT STA. 176+83+/- -L- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.

NOTE: COMPLETE PHASE I, STEP 5C IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY). [SEE SPECIAL PROVISIONS]

C) CONSTRUCT RIGHT SIDE OF 48" RCP AT STA. 181+34+/- -L- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.

STEP 6:

-USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 267+00 -L- TO STA. 324+00 -L- (OWEN DR. TO END OF PROJECT):

-RIGHT SIDE OF -L- SECTION 4, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

-ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-FAIRFIELD RD, -Y35-, -Y39-, FORSYTHE DR, -Y43-, AND -Y44- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

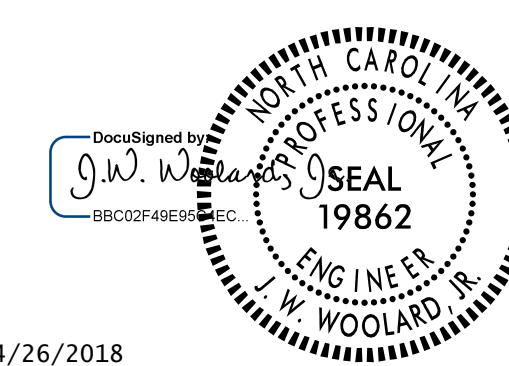
-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

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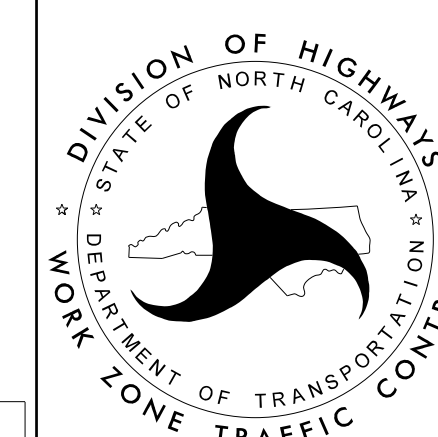


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TEMPORARY TRAFFIC CONTROL PHASING

PHASE II & III

PROJ. REFERENCE NO. U-4405	SHEET NO. TMP-3A
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PHASE II STEP 1

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM BEGINNING OF PROJECT TO STA. 76+50 -L- (STRICKLAND BRIDGE RD.):

-LEFT SIDE OF -L- SECTION 1, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

-USING FLAGGERS AND RSD 1101.02 AS NEEDED, COMPLETE -SR1- AND -SR3- STARTED IN PHASE I STEP 3.

NOTE: -SR1- AND -SR3- MUST BE CONSTRUCTED DURING SUMMER MONTHS, AND CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THESE SERVICES ROADS WITH SCHOOL OFFICIALS. [SEE PROJECT SPECIAL PROVISIONS]

-USING FLAGGERS AND RSD 1101.02, CONSTRUCT ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

--Y50-, -Y51-, -Y52-, -Y53-, -Y1-, NORTH SIDE OF -Y4- AND THE NORTH SIDE OF -Y5- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

1. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 54" PIPE ACROSS NORTH SIDE OF -Y5-.

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: CONSTRUCT PHASE II, STEP 1B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

B) CONSTRUCT LEFT SIDE OF 66" RCP AT STA. 46+71+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

STEP 2

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7 & 8, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 76+50 -L- TO STA. 142+65 -L- (STRICKLAND BRIDGE RD. TO SKIBO RD.):

-LEFT SIDE OF -L- SECTION 2, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

-USING FLAGGERS AND RSD 1101.02, CONSTRUCT ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-USING FLAGGERS AND RSD 1101.02 AS NEEDED, CLOSE ONE SIDE OF ENTRANCE TO OAK FOREST DRIVE AT A TIME TO CONSTRUCT 48" PIPE ACROSS OAK FOREST DRIVE.

-LEFT SIDE OF -Y7-, -Y9-, -Y11-, AND -Y13- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1)

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: CONSTRUCT PHASE II, STEP 2B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

B) CONSTRUCT LEFT SIDE OF 42" RCP AT STA. 78+25+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

STEP 3

A) USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7, 8 & 9, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 142+65 -L- TO STA. 267+00 -L- (SKIBO RD. TO OWEN DR.):

-LEFT SIDE OF -L- SECTION 3, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1) (SEE TMP-12 & 13)

ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-Y15- AND -Y29- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

1. USING LANE CLOSURES, RSD 1101.02 AND LAW ENFORCEMENT AS NEEDED, CONSTRUCT 54" PIPE ACROSS LAFAYETTE FORD LINCOLN ENTRANCE IN A CONTINUOUS MANNER.

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-COMPLETE CONSTRUCTION STARTED IN PHASE I, STEP 2.

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

NOTE: CONSTRUCT PHASE II, STEP 3B IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

B) CONSTRUCT LEFT SIDE OF 48" RCP AT STA. 176+83+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

NOTE: CONSTRUCT PHASE II, STEP 3C IN 58 CONSECUTIVE HOURS (9:00 PM FRIDAY TO 5:00 AM MONDAY) [SEE PROJECT SPECIAL PROVISIONS]

C) CONSTRUCT LEFT SIDE OF 48" RCP AT STA. 181+34+/- TO THE MEDIAN IN A CONTINUOUS OPERATION USING LANE CLOSURES AND RSD 1101.02.

STEP 4

USING TEMPORARY LANE CLOSURES AND RSD 1101.02, REMOVE PCB ON ALL AMERICAN EXPRESSWAY, PLACE TEMPORARY MARKINGS ON NEW RAMP B, INSTALL ANY PERMANENT SIGNING ON ALL AMERICAN FREEWAY, AND OPEN RAMP B TO TRAFFIC.

STEP 5

USING TEMPORARY LANE CLOSURES, THE DETAILS ON SHEETS TMP-7 & 8, AND RSD 1101.02, CONSTRUCT THE FOLLOWING FROM STA. 267+00 -L- TO STA. 324+00 -L- (OWEN DR. TO END OF PROJECT):

-LEFT SIDE OF -L- SECTION 4, INCLUDING WATER AND SEWER LINES, DRAINAGE, CURB & GUTTER, SIDEWALK, AND PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. ADJUST ANY SIGNALS AS NEEDED (SEE SIGNAL PLANS). WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE. (SEE LOCAL NOTE 1) (SEE TMP-14)

-ALL DRIVEWAY TIE-INS, INCLUDING DRAINAGE, IN A CONTINUOUS MANNER WHILE MAINTAINING ACCESS AT ALL TIMES.

-FAIRFIELD RD, -Y31-, -Y36-, AND -Y40- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC AND ACCOMMODATE DRAINAGE.

-USING FLAGGERS AND RSD 1101.02, CONSTRUCT 42" PIPE ACROSS -Y40-

-ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:
MONDAY - THURSDAY 10:00PM TO 6:00AM
FRIDAY AT 10:00PM TO MONDAY AT 6:00AM

-USING THE DETAIL ON TMP-6, CLOSE EXISTING SIDEWALK AND DETOUR PEDESTRIANS TO THE SIDEWALK ON THE OTHER SIDE OF -L-.

PHASE III

STEP 1

CONTRACTOR MAY BEGIN THE FOLLOWING:

USING RSD 1101.02 (SHEETS 3 AND 7 OF 15) AND THE DETAILS ON TMP-15, 16 & 17, CLOSE THE INSIDE LANE IN EACH DIRECTION AND CONSTRUCT:

(NOTE: PLACE TRAFFIC BACK IN THE ORIGINAL TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD.)

-1'-6" CURB & GUTTER OR MONOLITHIC CONCRETE ISLANDS AND PROPOSED DRAINAGE AS SHOWN IN THE CONSTRUCTION PLANS FROM:
-BEGINNING OF PROJECT TO STA. 137+70+/- -L-
-STA. 148+88+/- -L- TO STA. 324+00+/- -L-
(SEE TMP-23 THROUGH TMP-31)

STEP 2

USING RSD 1101.02 (SHEET 7 OF 14), PLACE TEMPORARY PAVEMENT MARKINGS AND TRAFFIC CONTROL DEVICES ON -L- AS SHOWN ON SHEETS TMP-18 THROUGH TMP-20 FROM STA. 130+75+/- TO STA. 150+50+/-.

SHIFT TRAFFIC TO THE NEW PATTERN AND CONSTRUCT THE MEDIAN ISLANDS AS SHOWN ON SHEETS TMP-18 THROUGH TMP-20.

STEP 3

USING RSD 1101.02 (SHEETS 3 AND 7 OF 15) PLACE TEMPORARY PAVEMENT MARKINGS IN FINAL PATTERN (SEE PMP)

SHIFT TRAFFIC TO THE NEW PATTERN AND USING THE DETAILS ON TMP-15, 16 & 17, CLOSE THE INSIDE LANES ON EACH SIDE OF THE PROPOSED ISLAND AND CONSTRUCT THE MONOLITHIC CONCRETE ISLAND FROM STA. 137+70+/- -L- TO STA. 148+88+/- -L- AS SHOWN ON SHEETS TMP-21 AND TMP-22.

STEP 4

COMPLETE THE WORK STARTED IN PHASE III, STEP 1.

STEP 5

USING RSD 1101.02 (SHEETS 3 AND 7 OF 15), PLACE THE FINAL LAYER OF SURFACE COURSE, FINAL PAVEMENT MARKINGS, AND PAVEMENT MARKERS ON -L- AND ALL -Y- LINES THROUGHOUT THE PROJECT. MAKE ANY FINAL ADJUSTMENTS NEEDED TO THE PROPOSED SIGNALS.

STEP 6

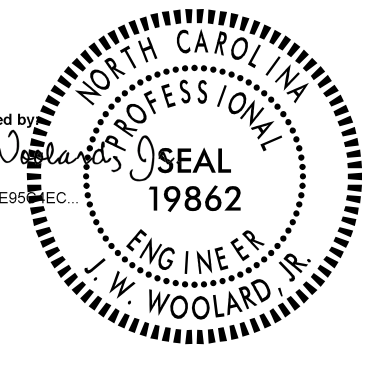
REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN THE PROJECT TO THE FINAL TRAFFIC PATTERN.

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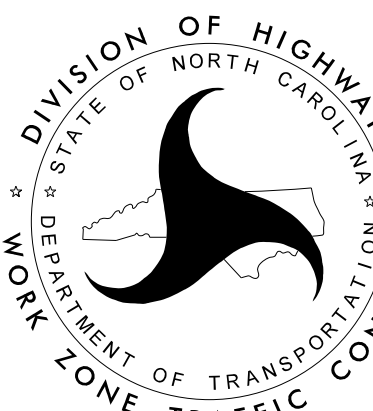
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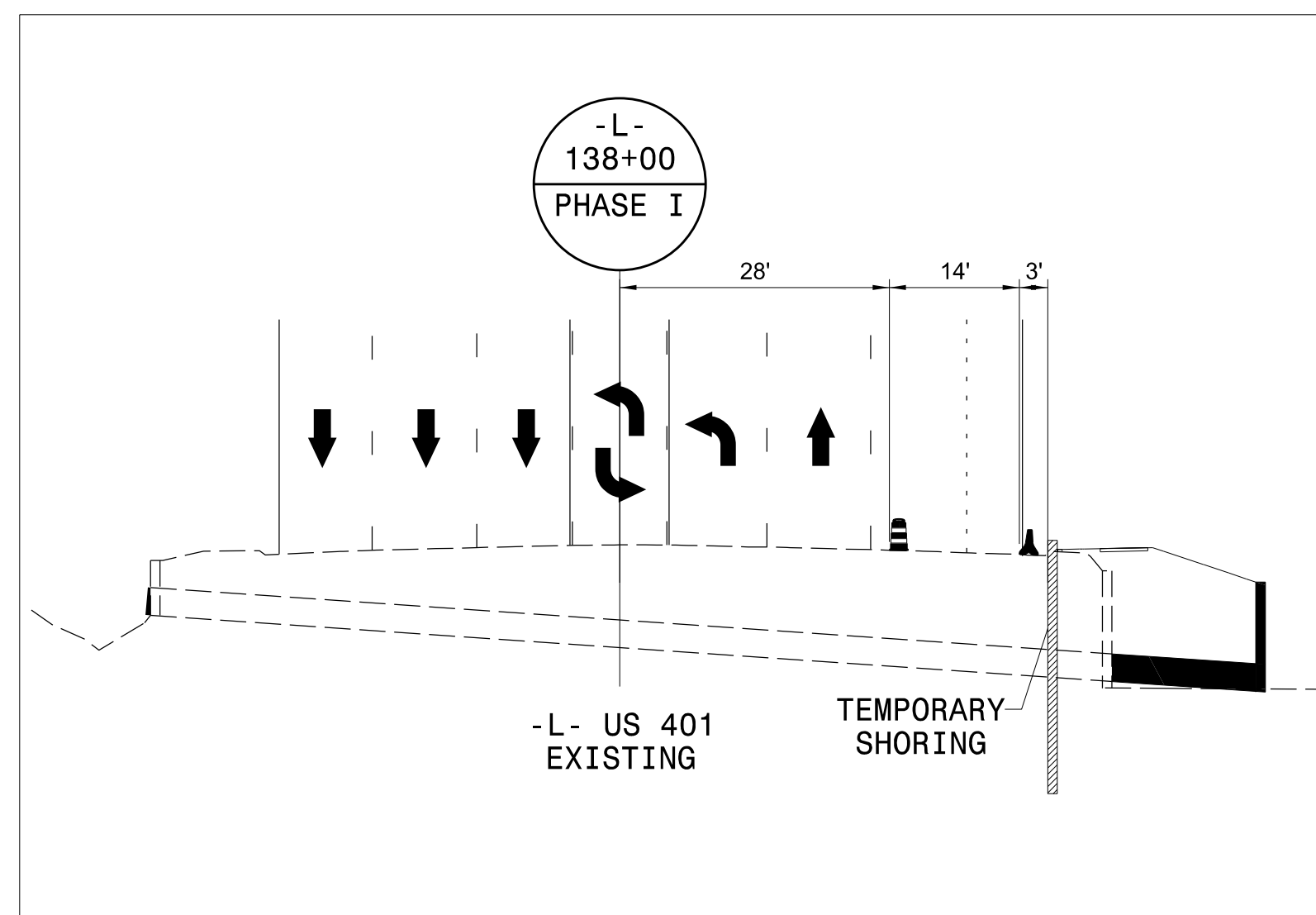


DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

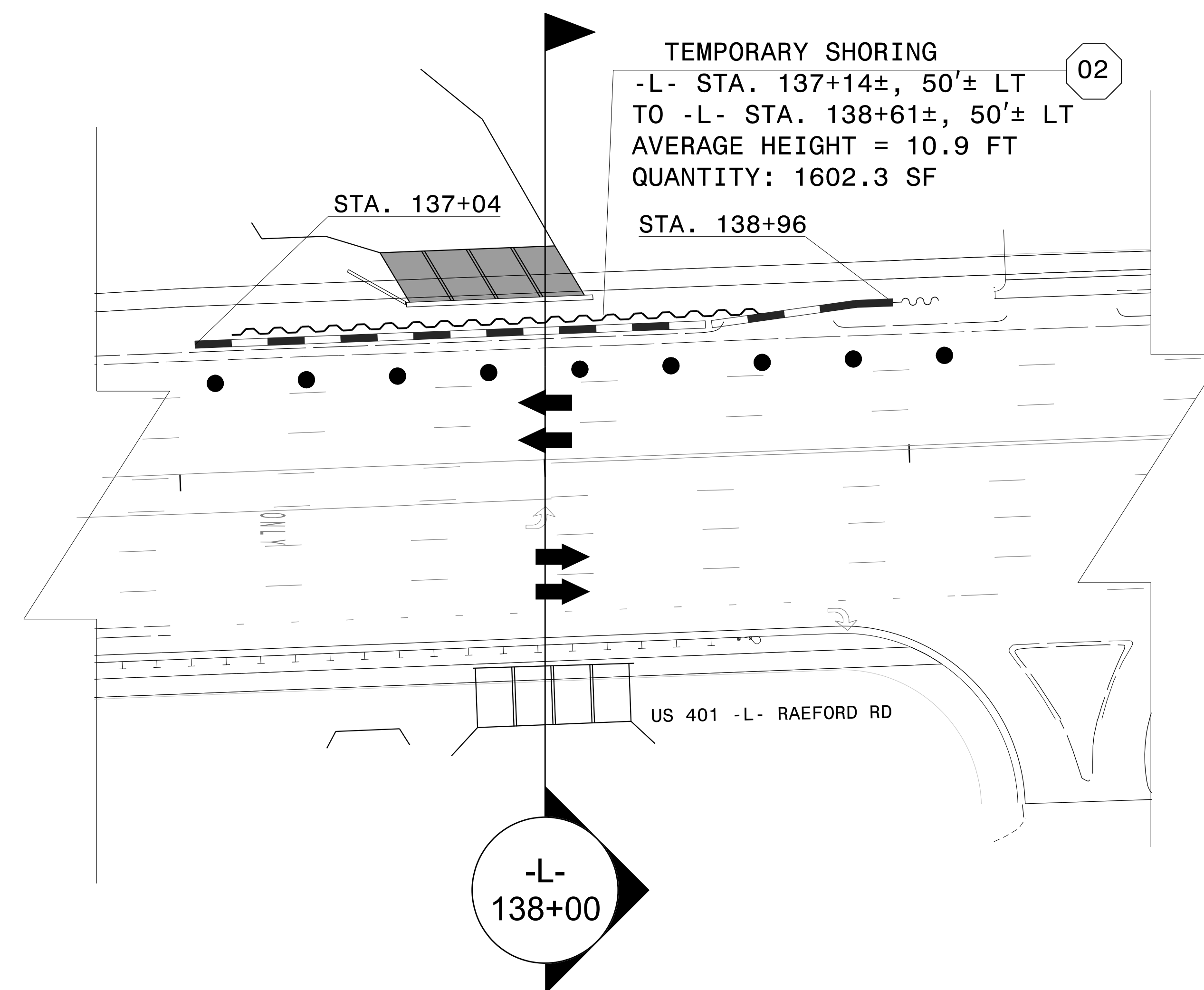
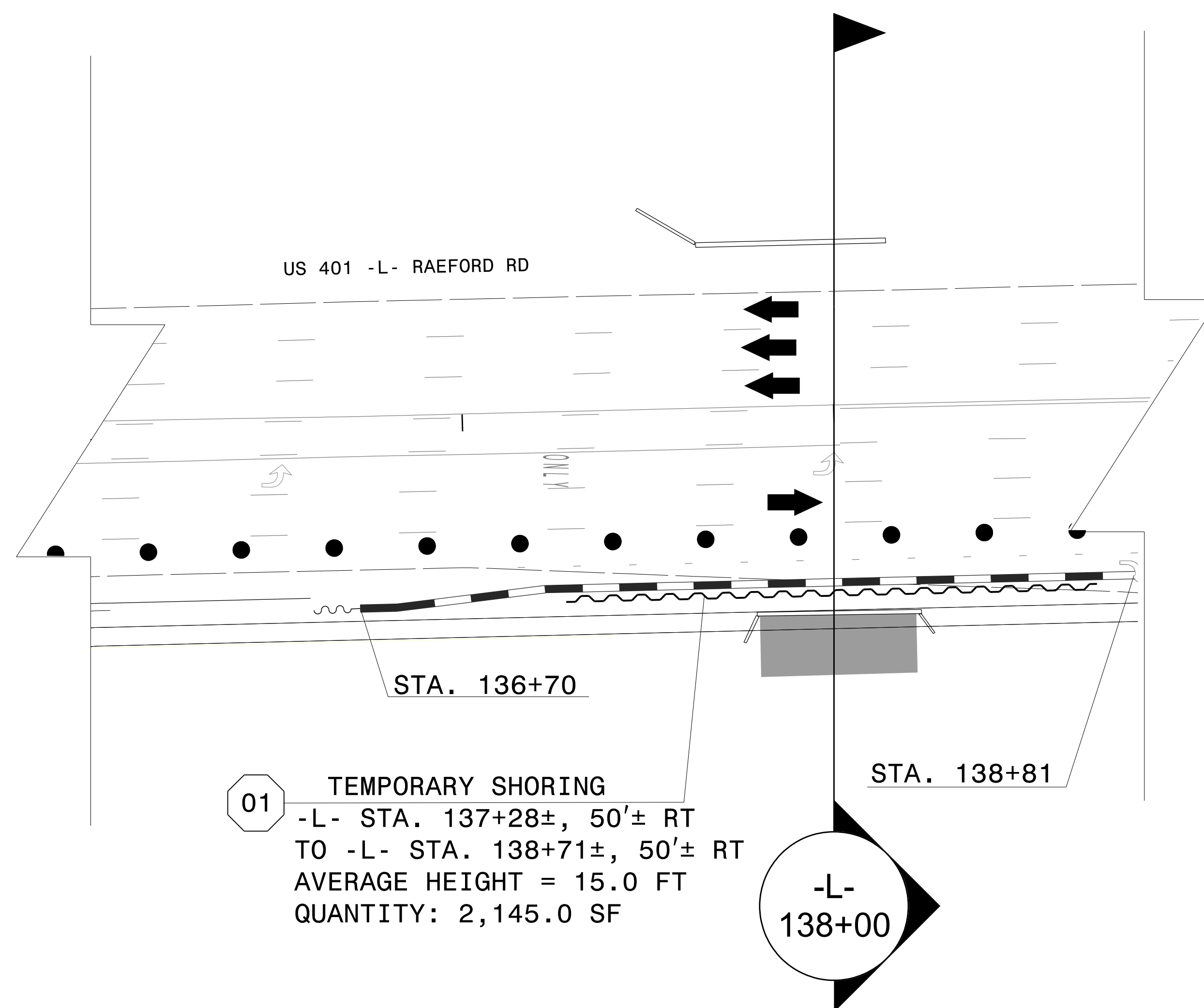
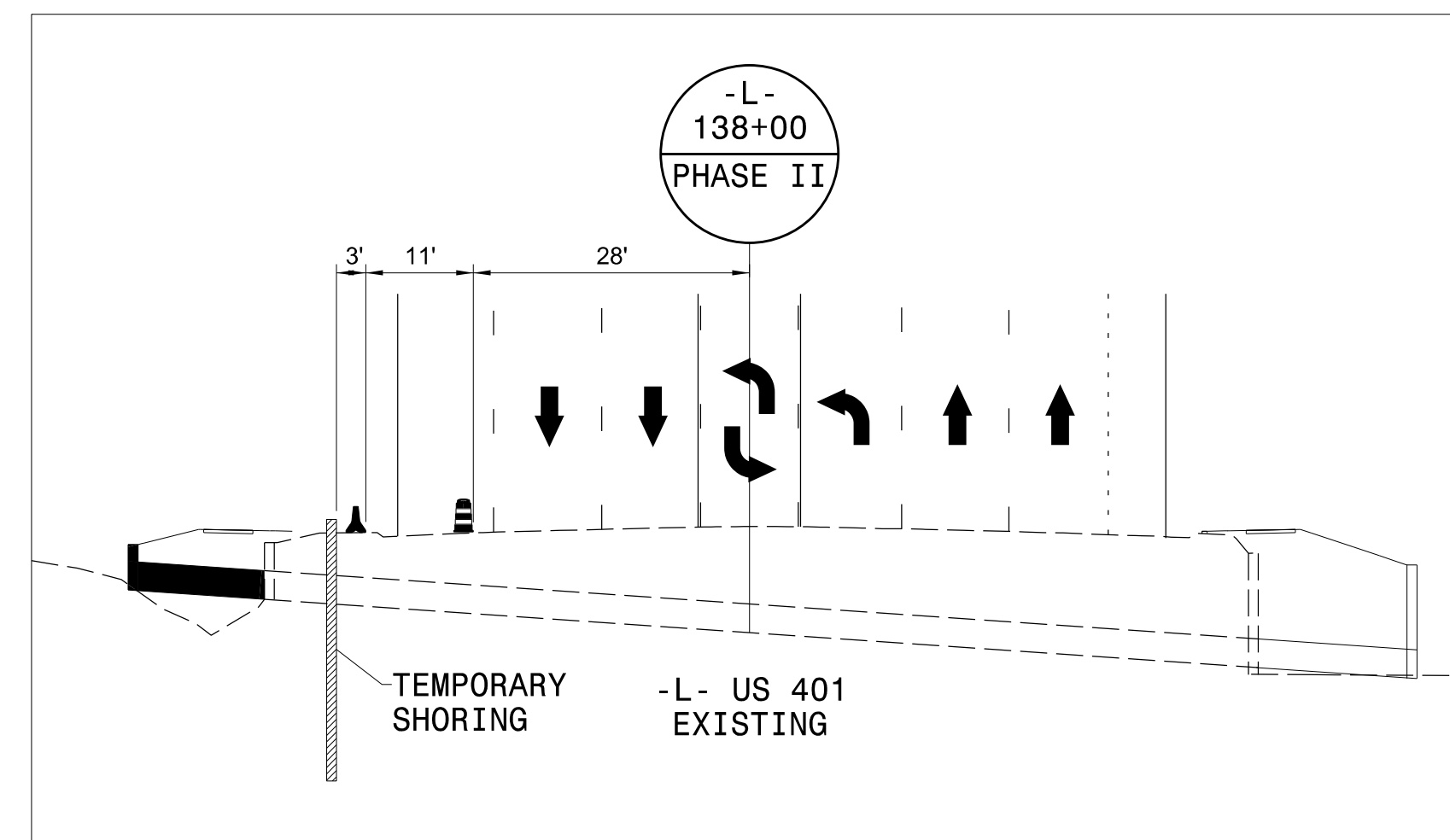
**TEMPORARY TRAFFIC
CONTROL PHASING**

PROJ. REFERENCE NO.	SHEET NO.
U-4405	TMP-4

PHASE I CULVERT SHORING PLACEMENT
-L- RAEFORD RD
STA. 138+00



PHASE II CULVERT SHORING PLACEMENT
-L- RAEFORD RD.
STA. 138+00



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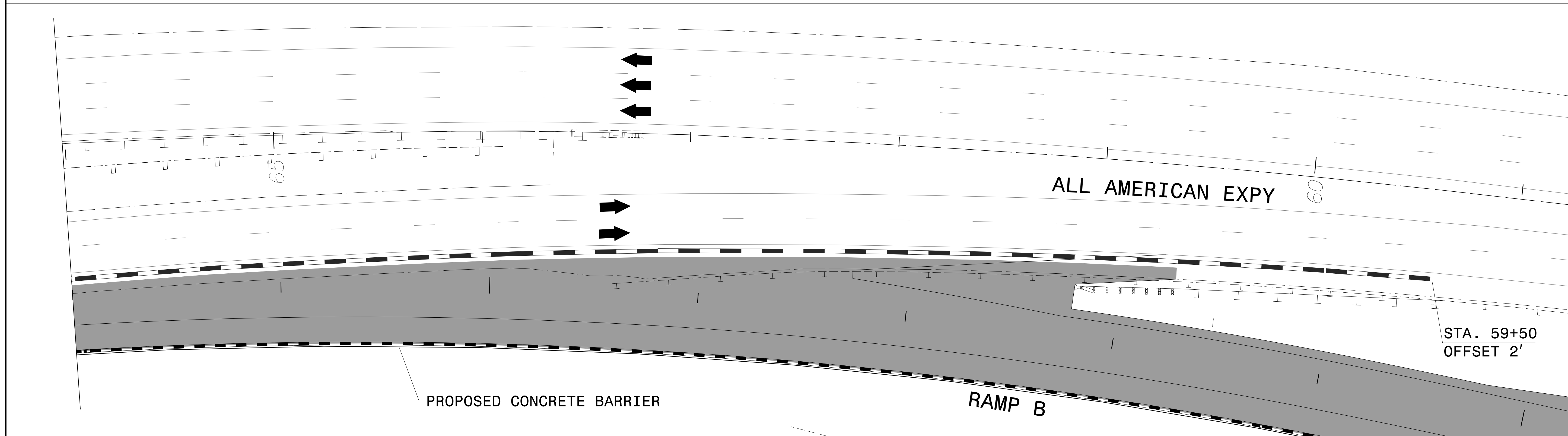
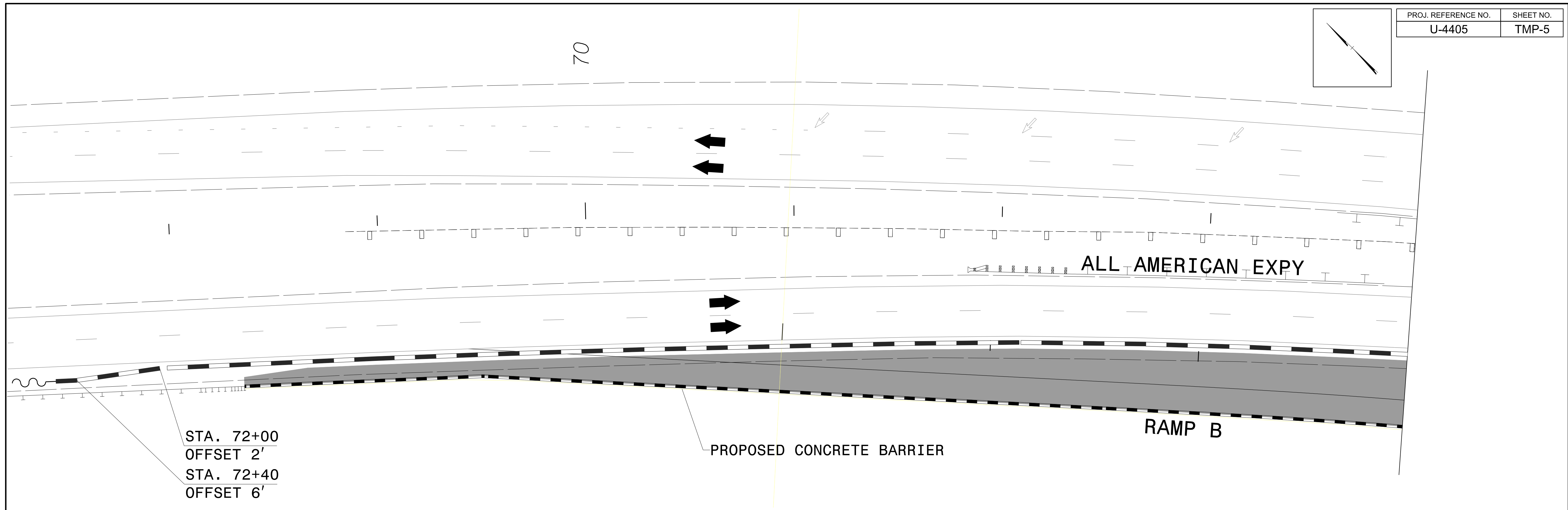
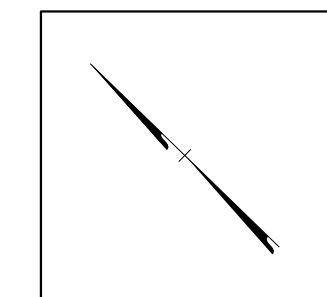
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STATE OF NORTH CAROLINA
WORK ZONE TRAFFIC CONTROL

CULVERT SHORING DETAIL

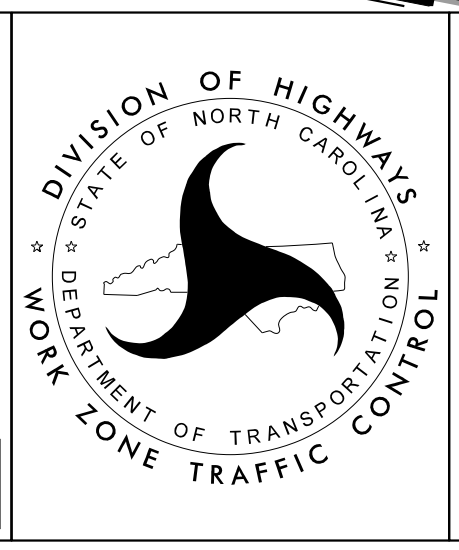


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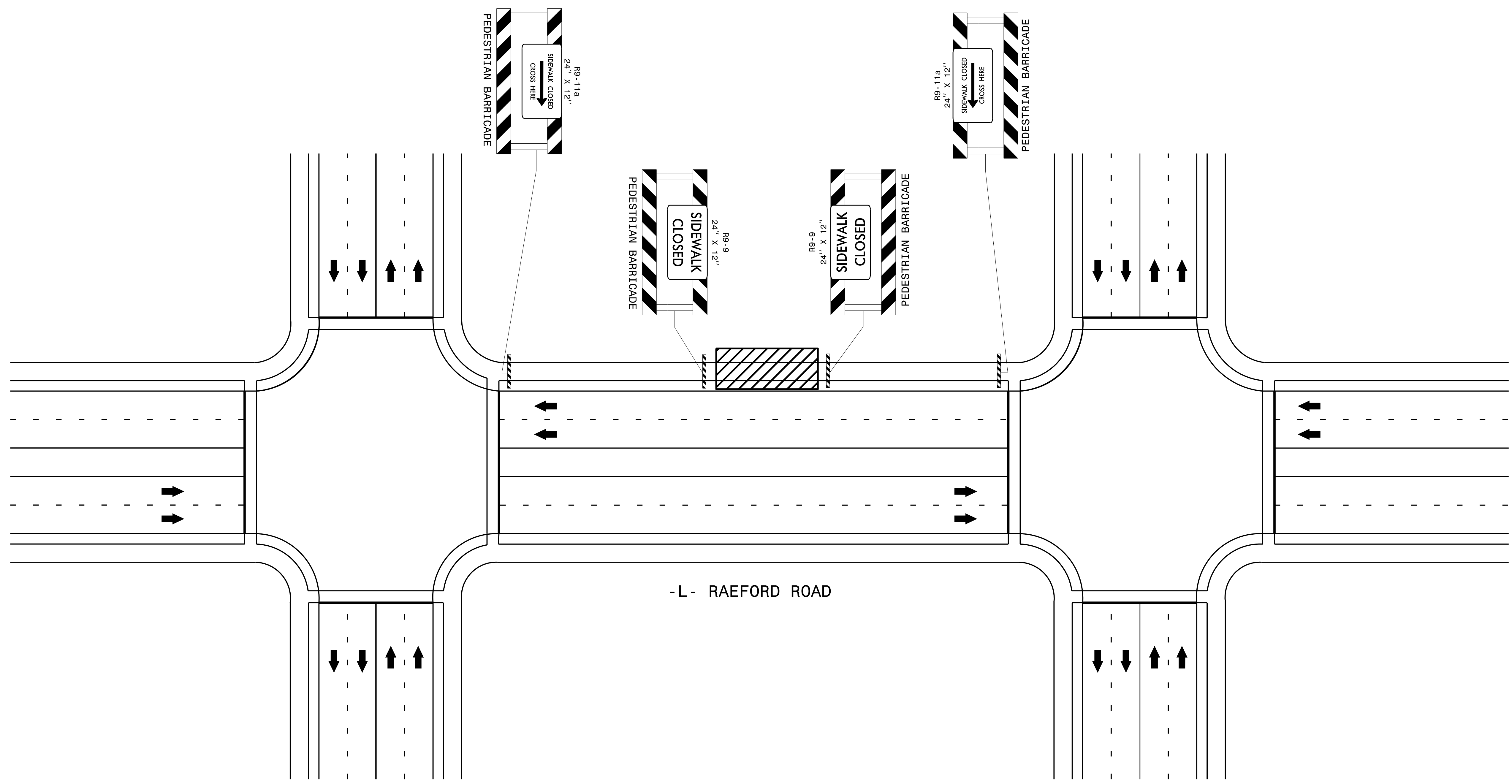
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**RAMP B EXPRESSWAY TIE-IN
 BARRIER DETAIL**



-L- RAEFORD ROAD

NOTES

1. USE MIRROR IMAGE IF SIDEWALK ON THE OTHER SIDE OF -L- (RAEFORD RD.) IS CLOSED

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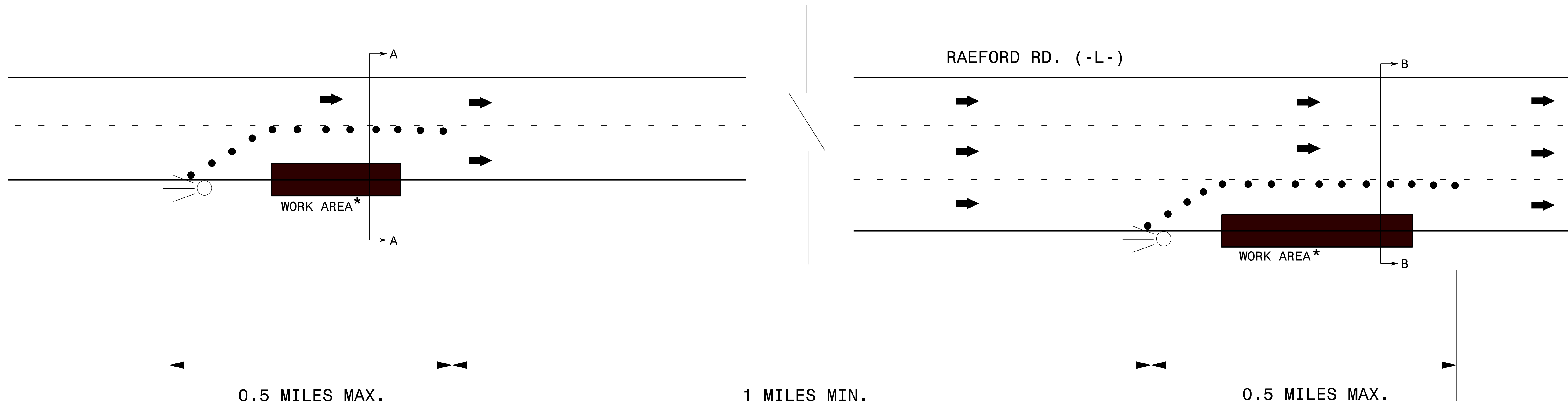
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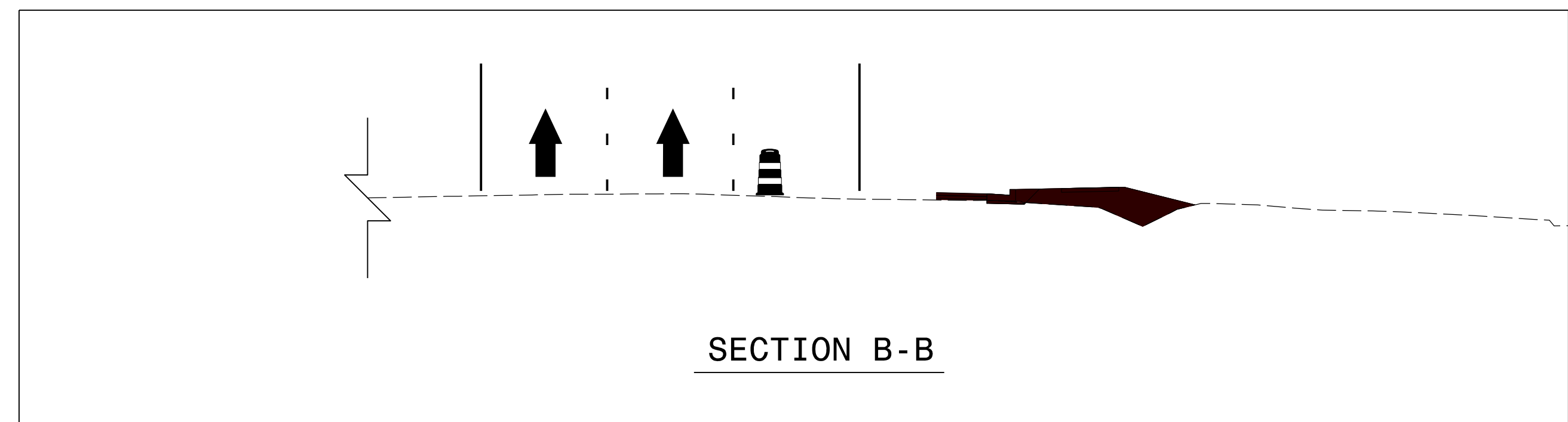
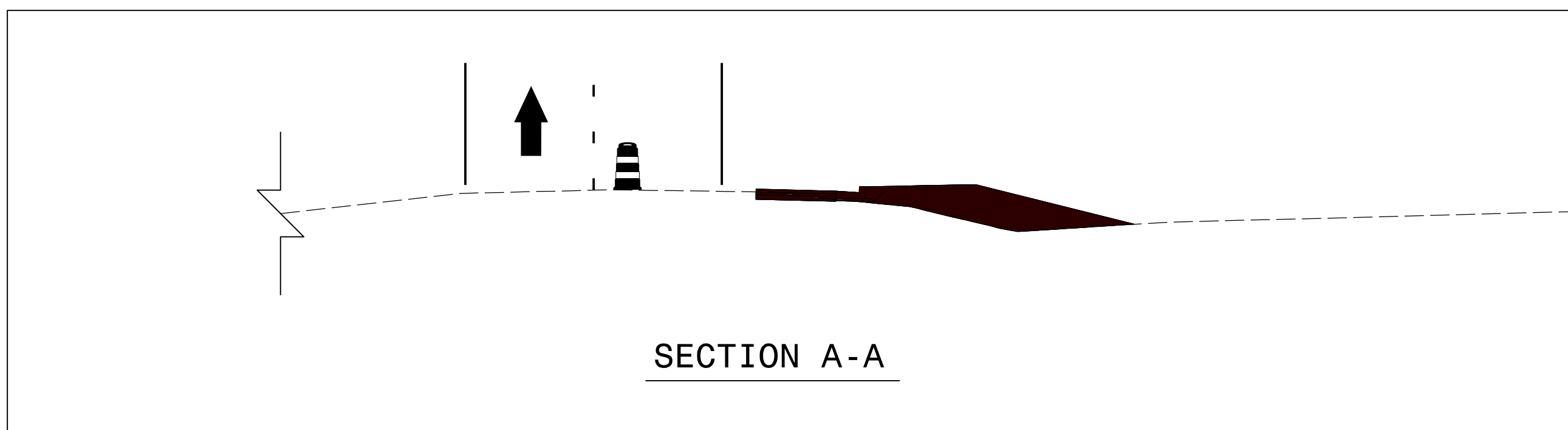
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

SIDEWALK CLOSURE DETAIL



NOTES

1. INSTALL ALL LANE CLOSURE PER RSD 1101.02 (SHEET 3 OF 15).
2. MAXIMUM LENGTH OF EACH LANE CLOSURE IS 0.5 MILES.
3. MINIMUM LENGTH BETWEEN LANE CLOSURES IS 1 MILE.
4. MAXIMUM NUMBER OF LANE CLOSURES IN ONE DIRECTION IS 2.
5. CONSTRUCT PROPOSED DRAINAGE, PAVEMENT, CURB & GUTTER, AND SIDEWALK IN EACH WORK AREA .



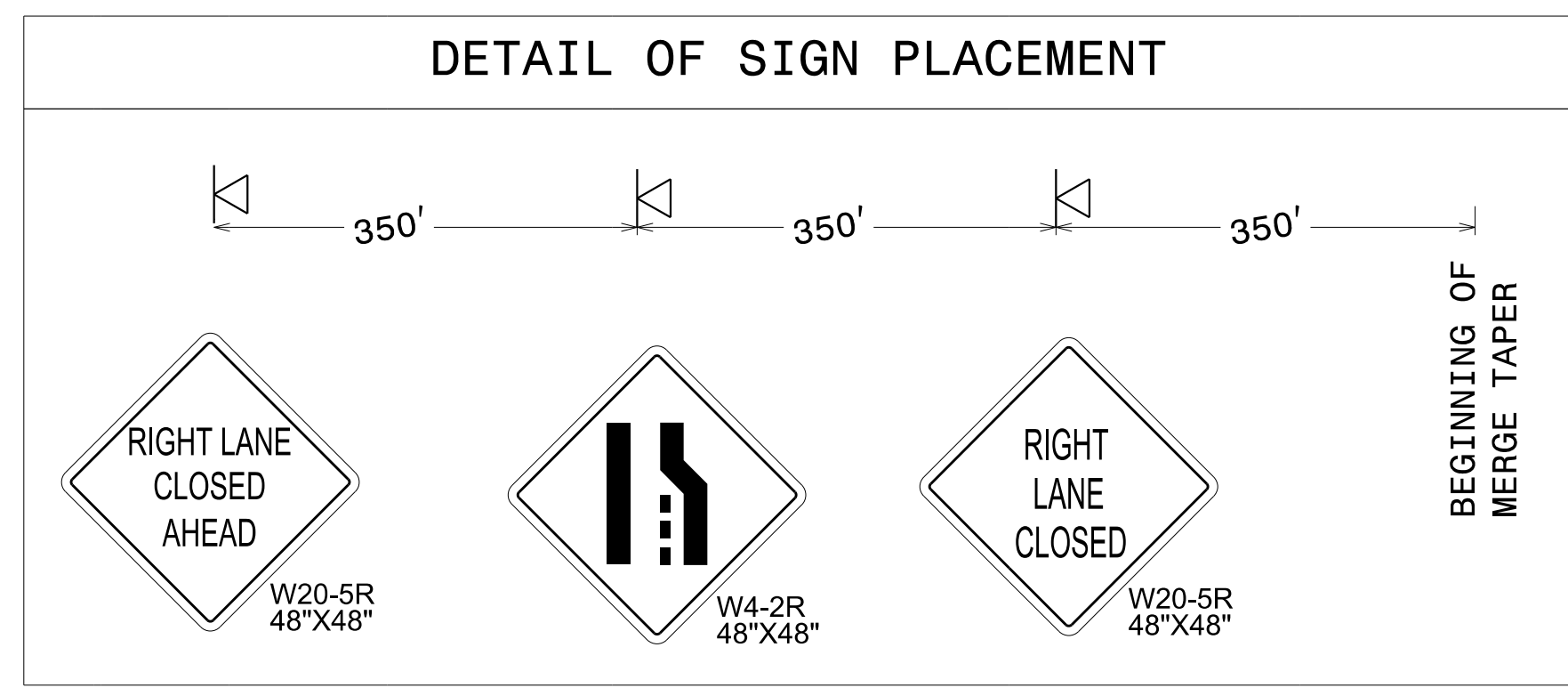
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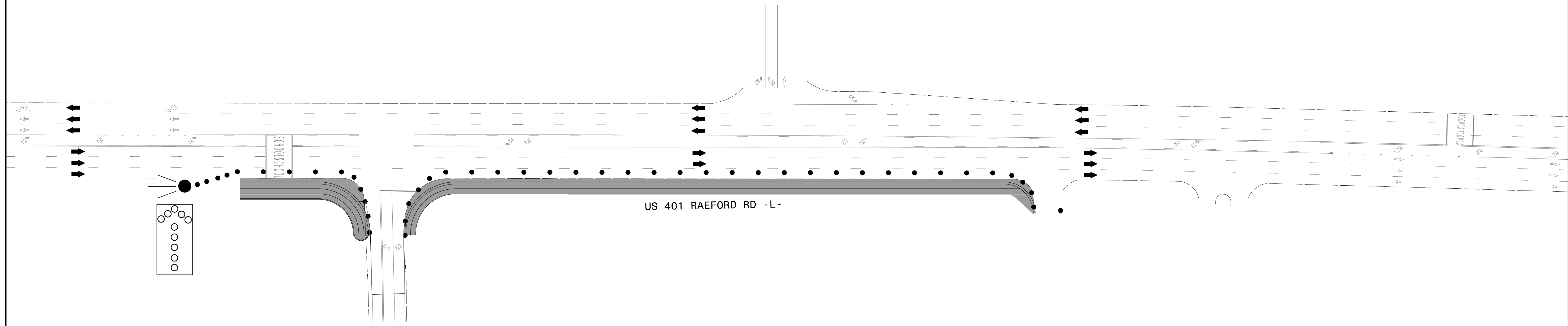
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**PHASE I & II
 OUTSIDE CONSTRUCTION
 DETAILS**



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NOTES

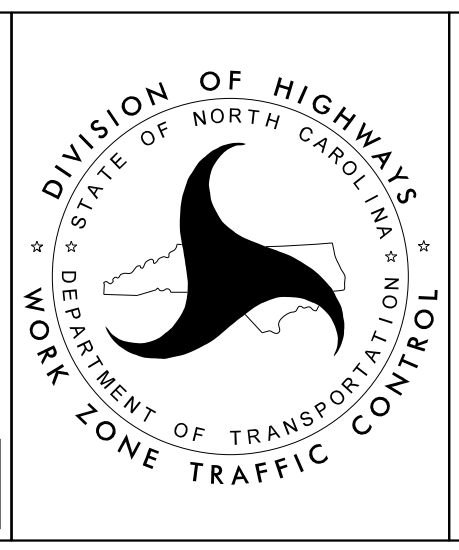
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 3 OF 15
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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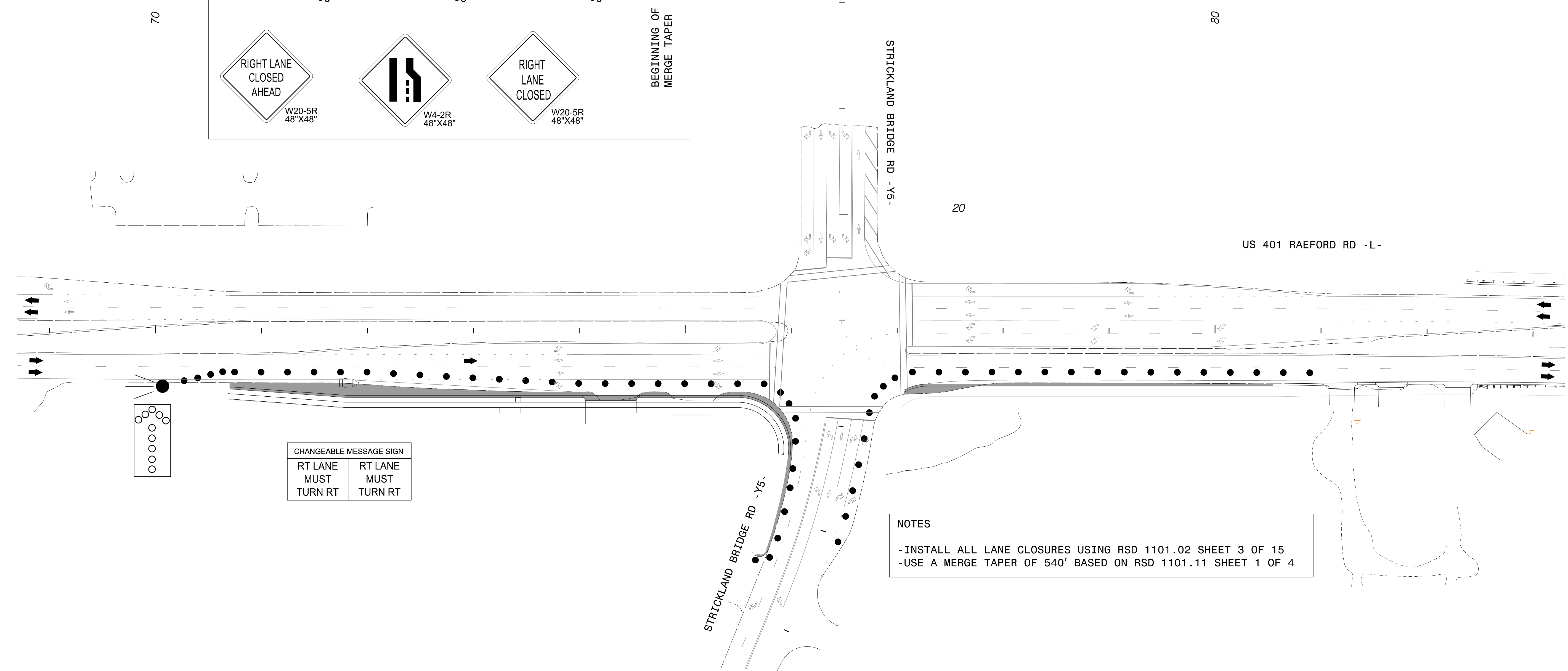
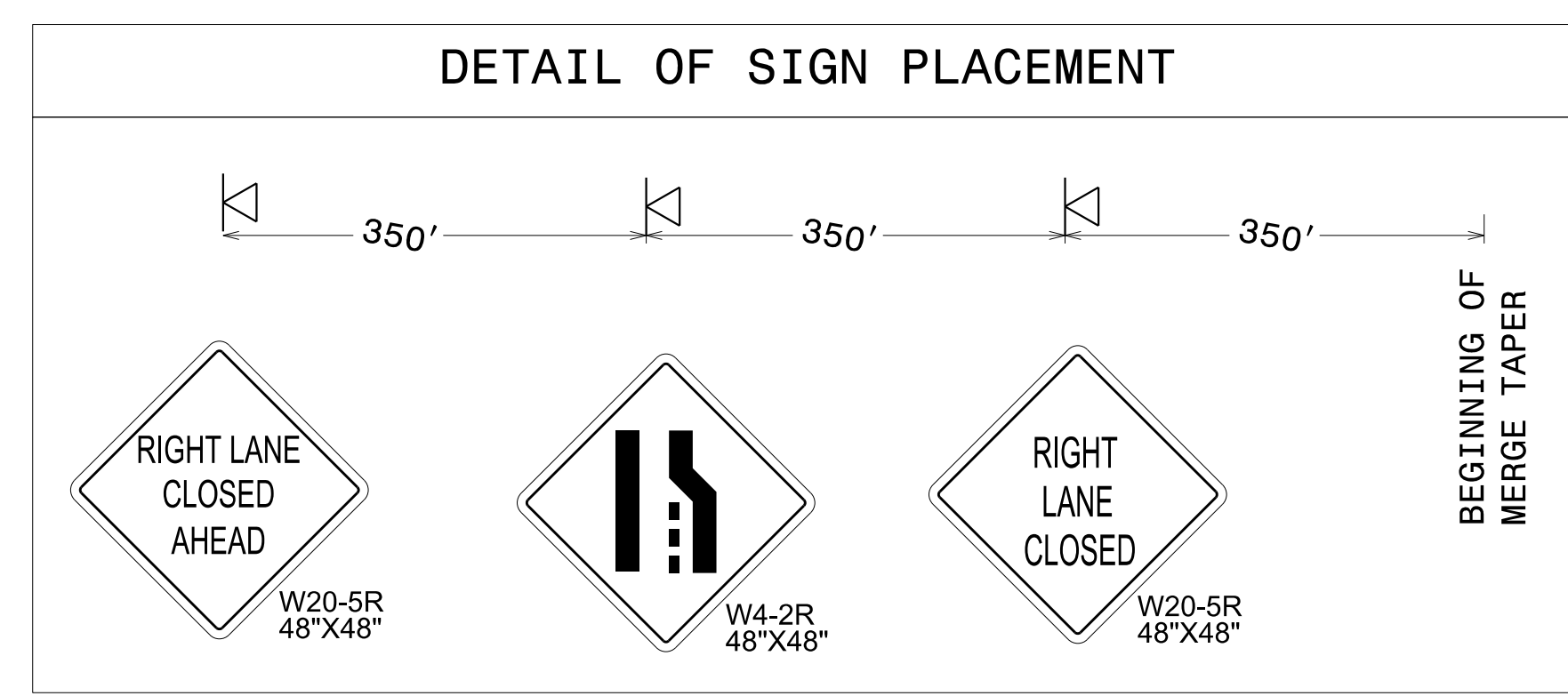
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**PHASE I & II
 OUTSIDE CONSTRUCTION
 TYPICAL DRAWING**



NOTES

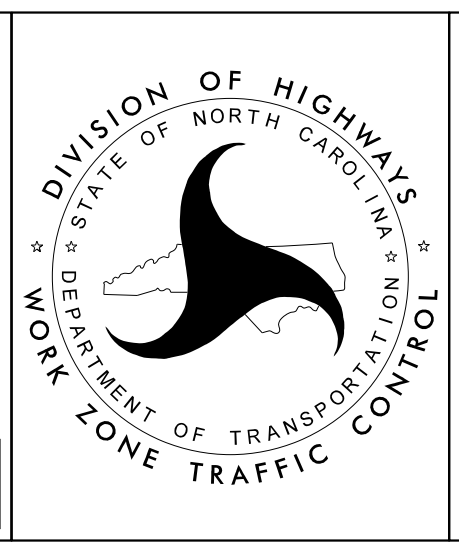
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 3 OF 15
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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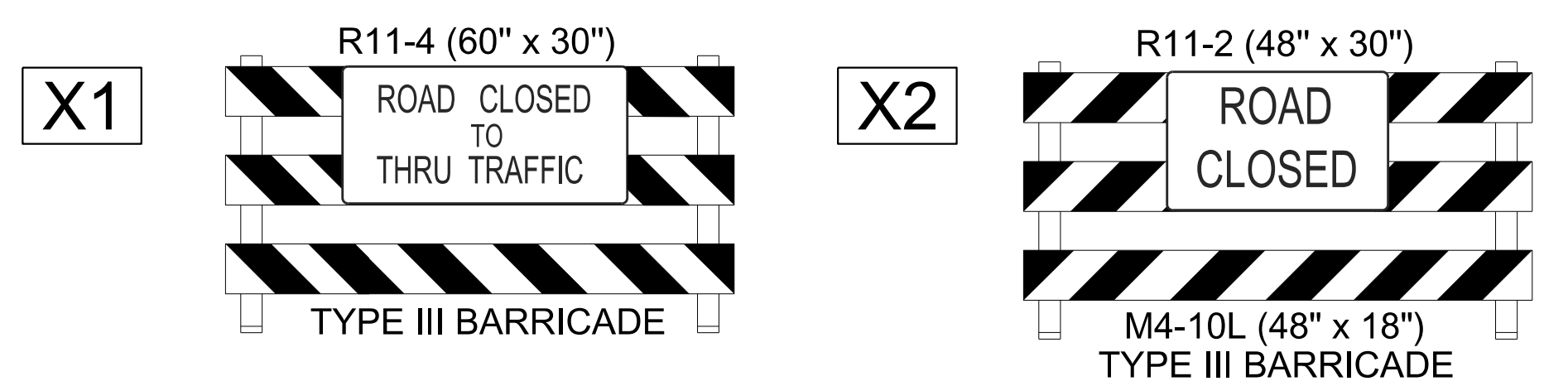
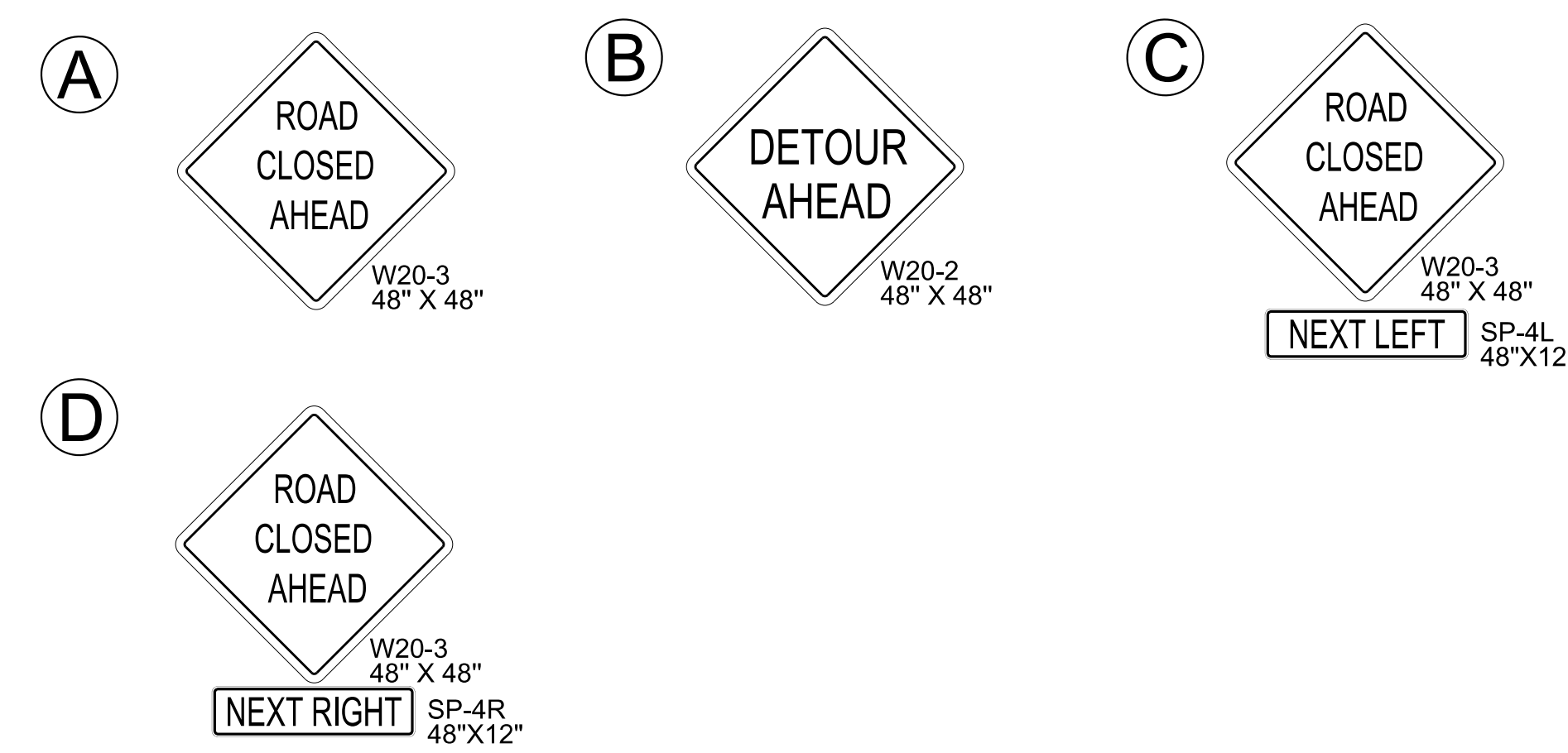
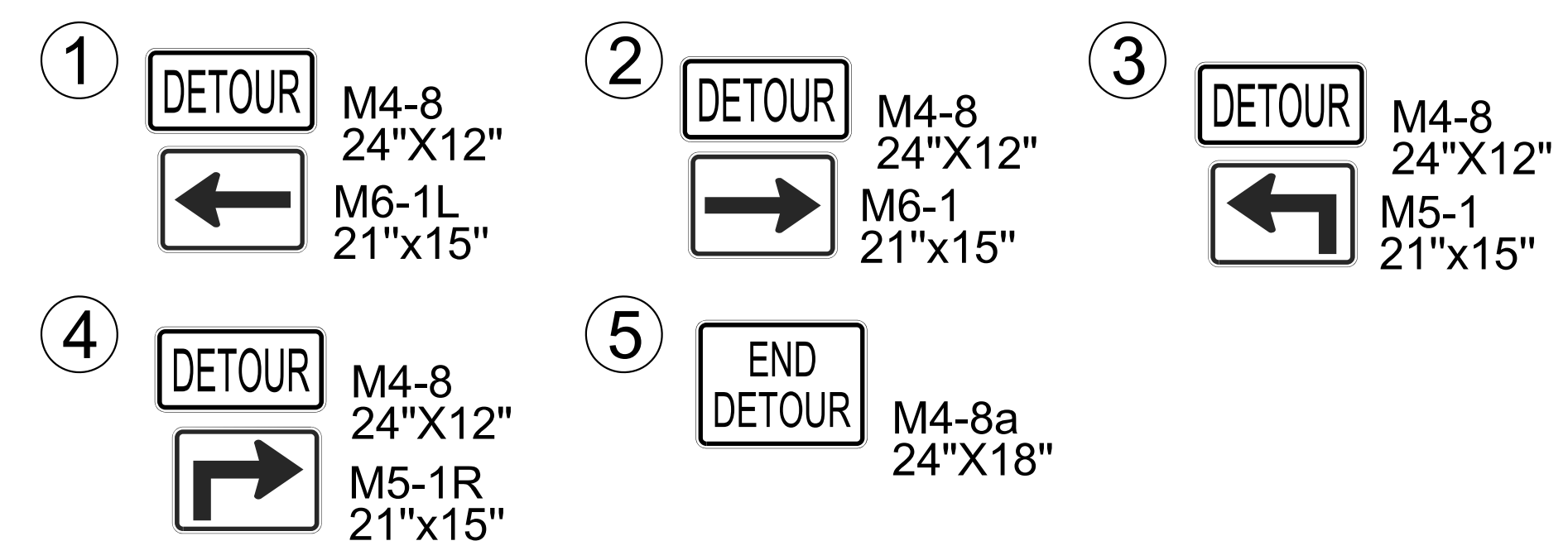
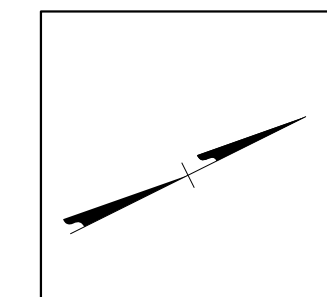
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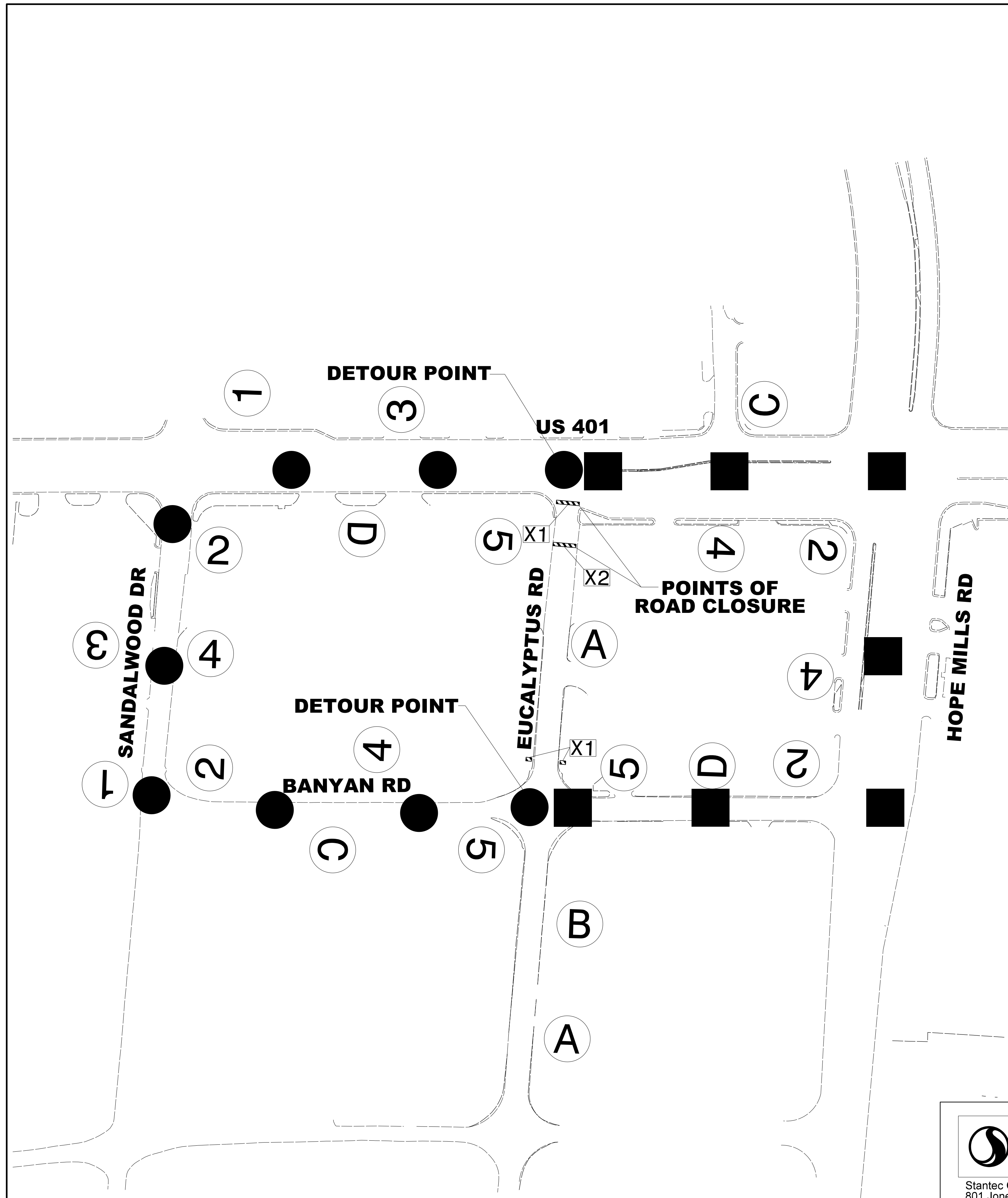
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**PHASE I & II
 OUTSIDE CONSTRUCTION
 INTERSECTION
 TYPICAL DRAWING**



● -Y18- EUCALYPTUS RD WB DETOUR ROUTE
 ■ -Y18- EUCALYPTUS RD EB DETOUR ROUTE



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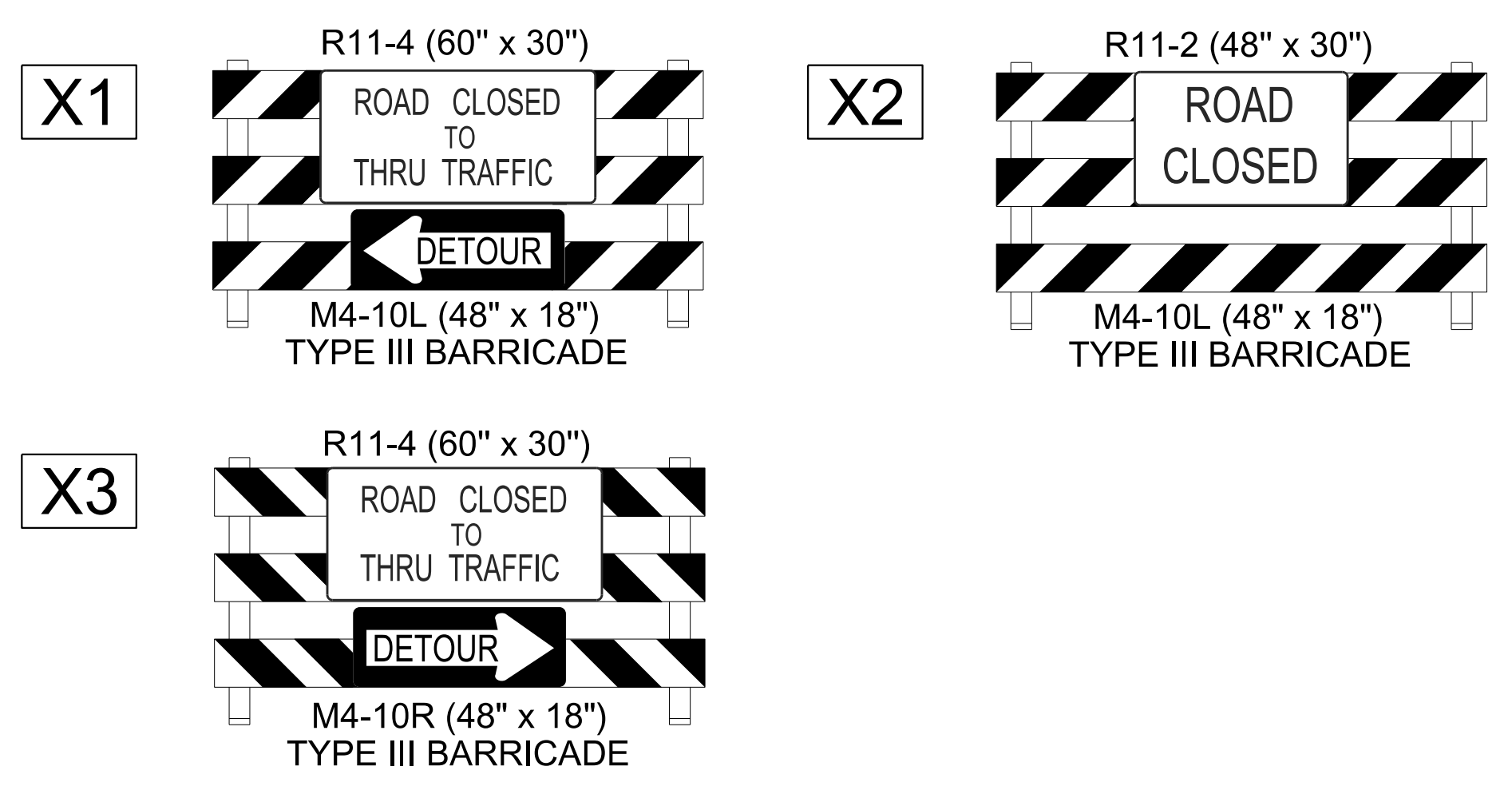
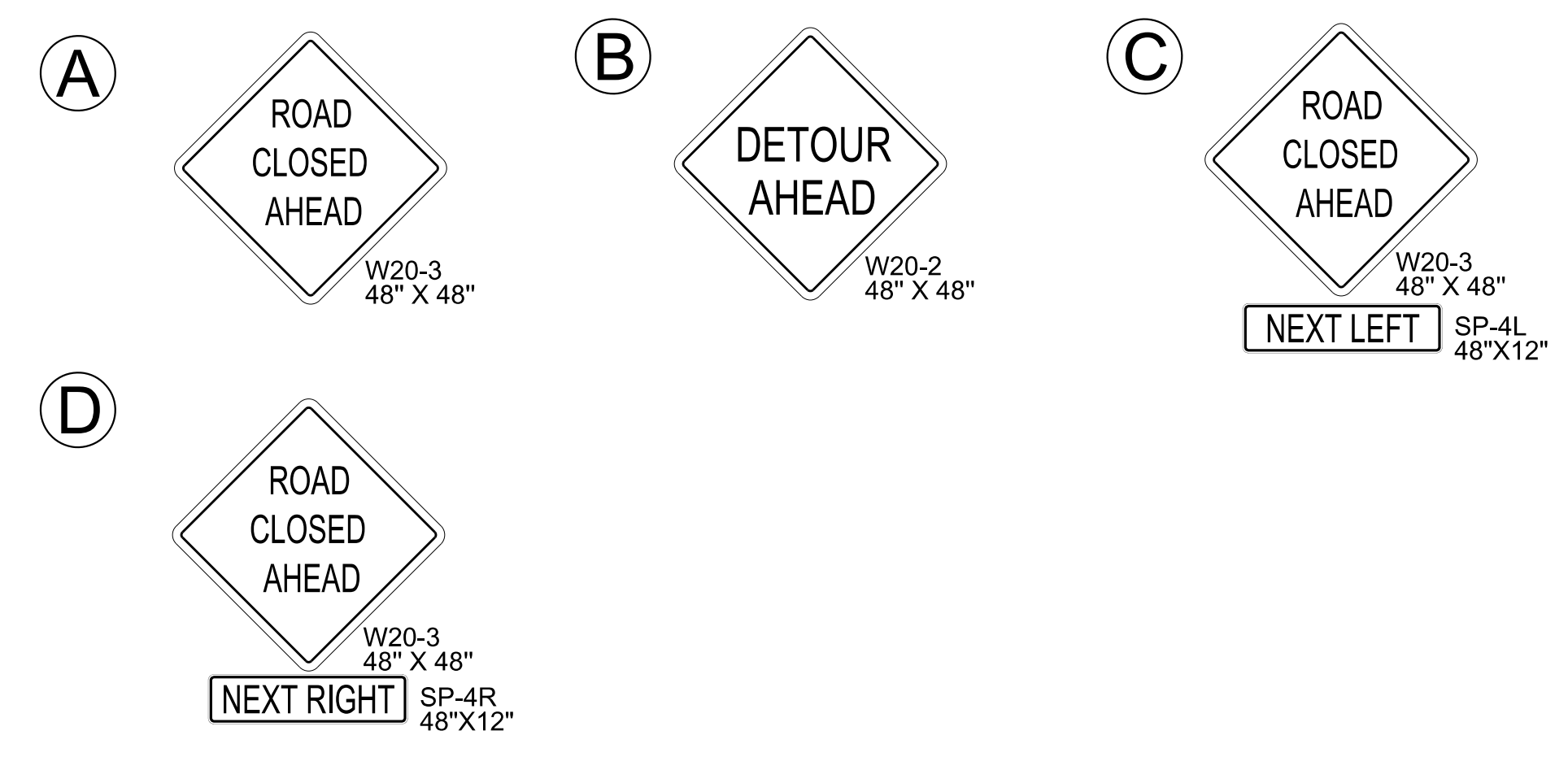
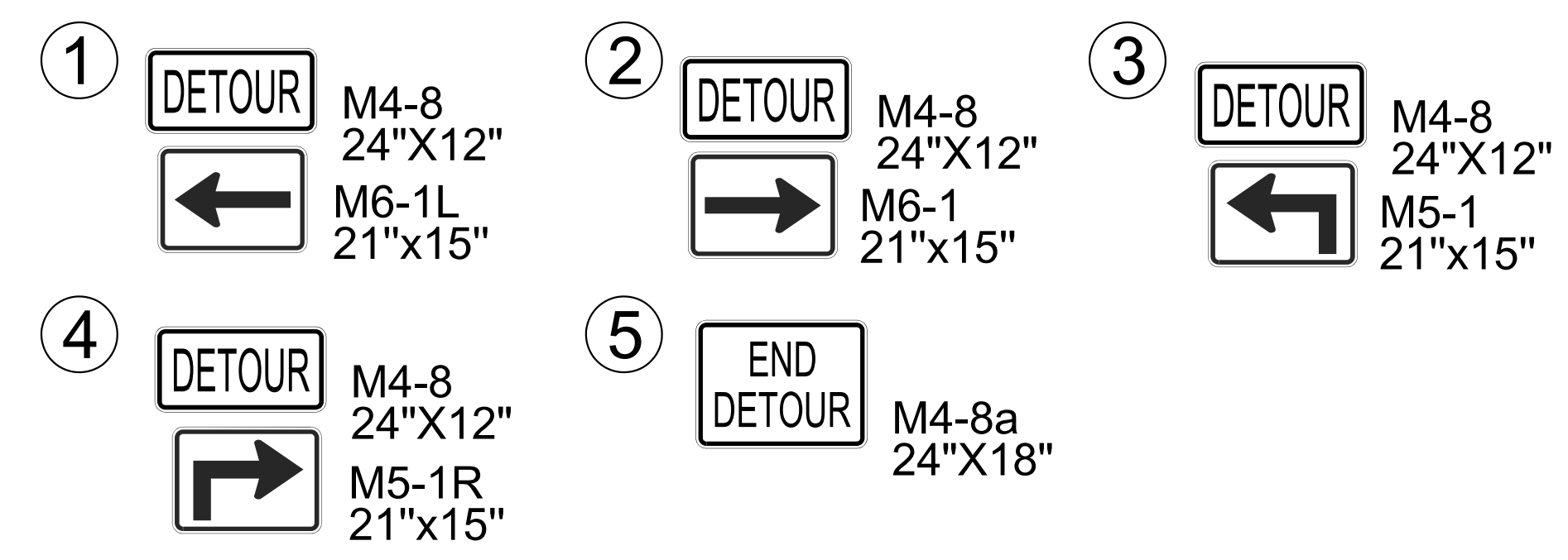
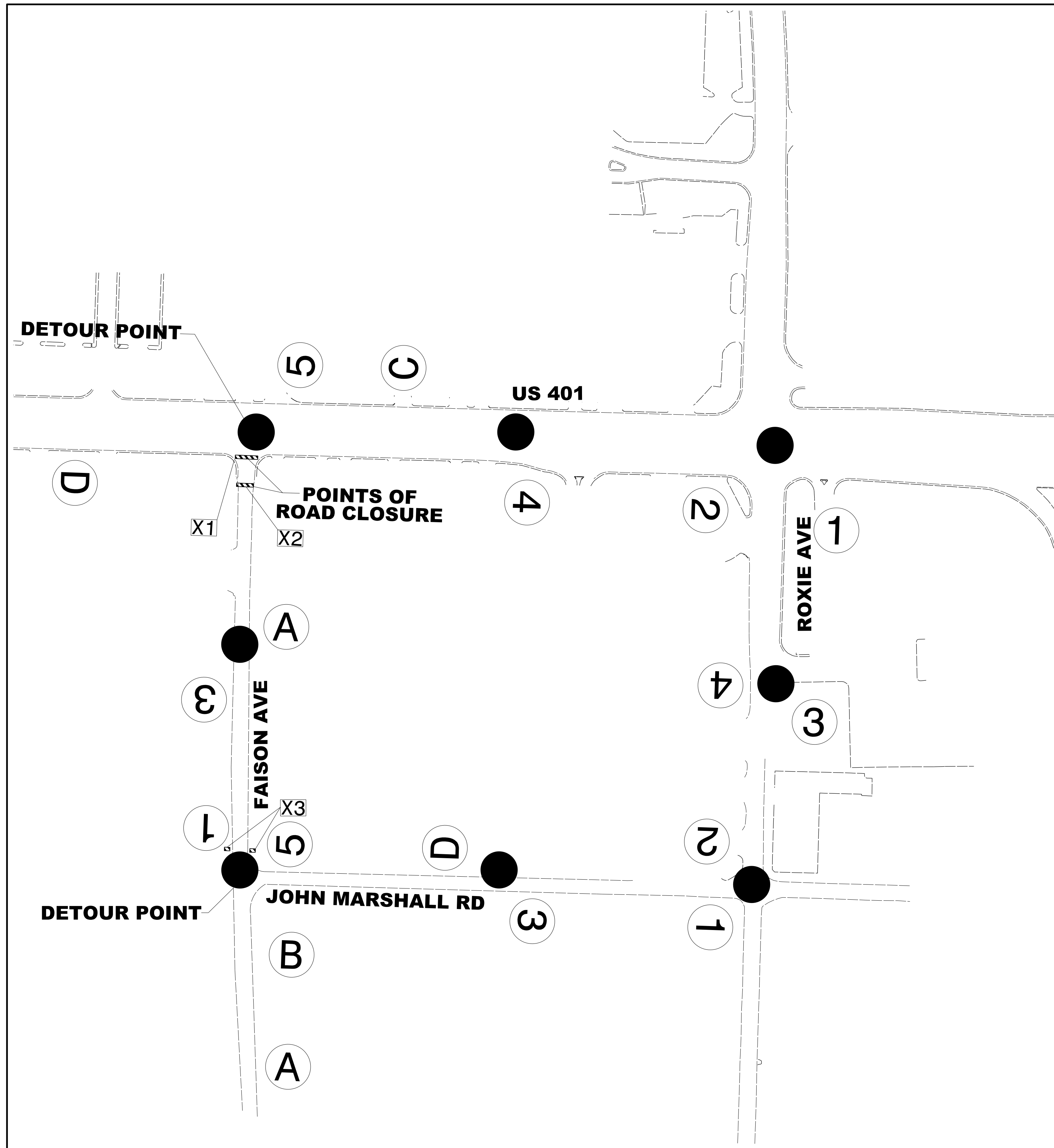
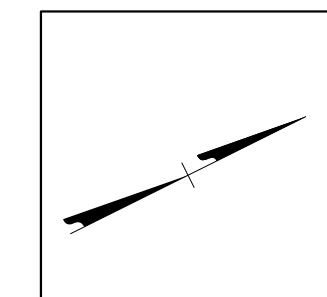
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-Y18- EUCALYPTUS RD
 DETOUR ROUTE

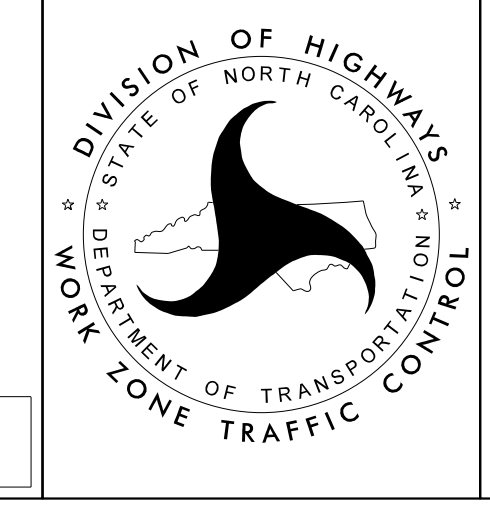
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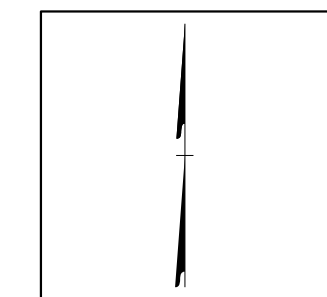
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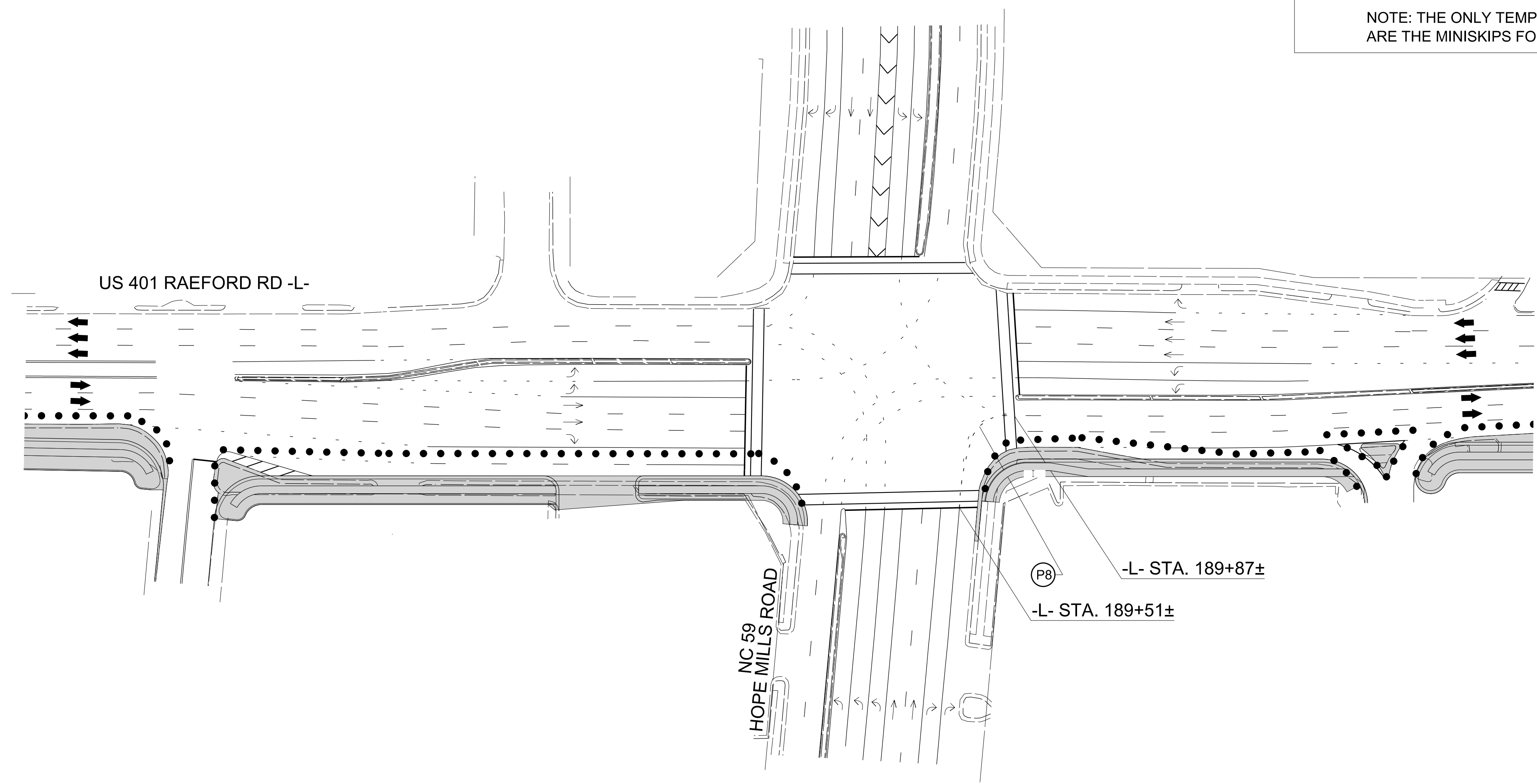
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-Y26- FAISON AVE
 DETOUR ROUTE



TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE THE MINISKIPS FOR LANE CONTINUITY	

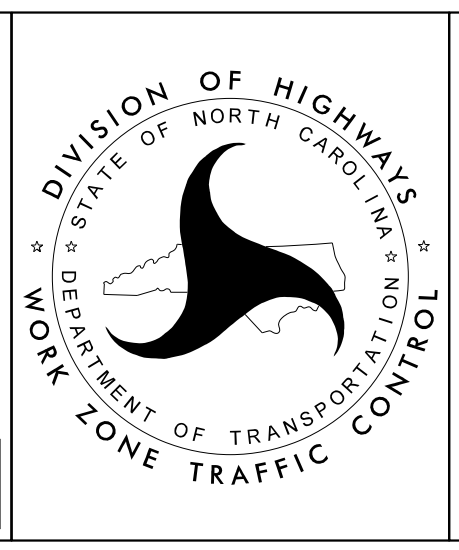


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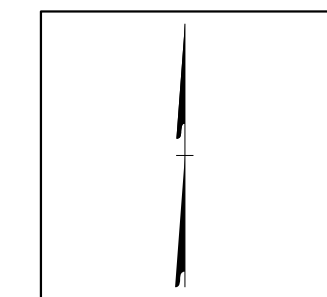
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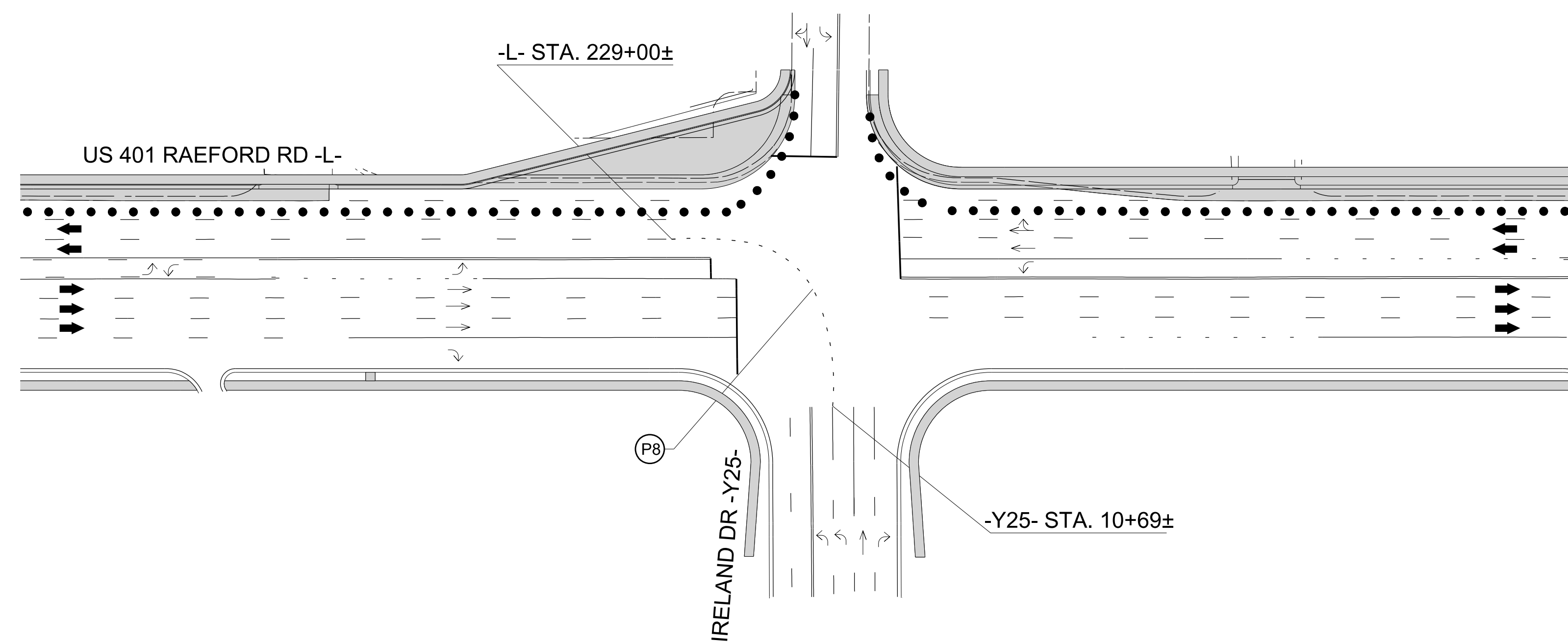
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US 401 -L-
 AT NC 59
 PHASE I DETAIL



TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE THE MINISKIPS FOR LANE CONTINUITY	

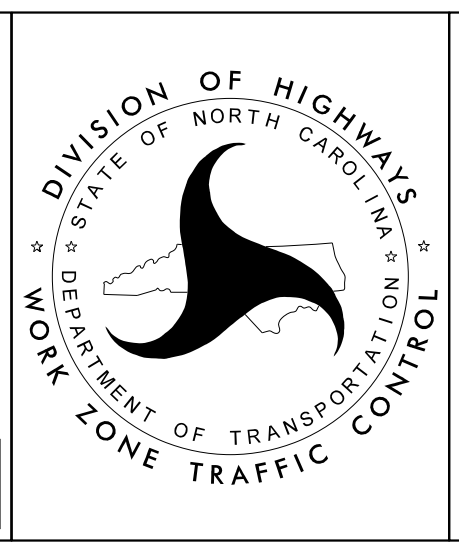


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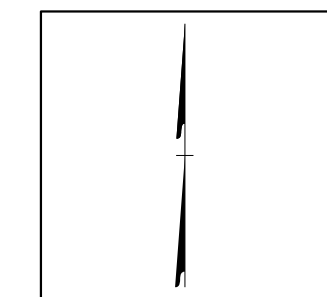
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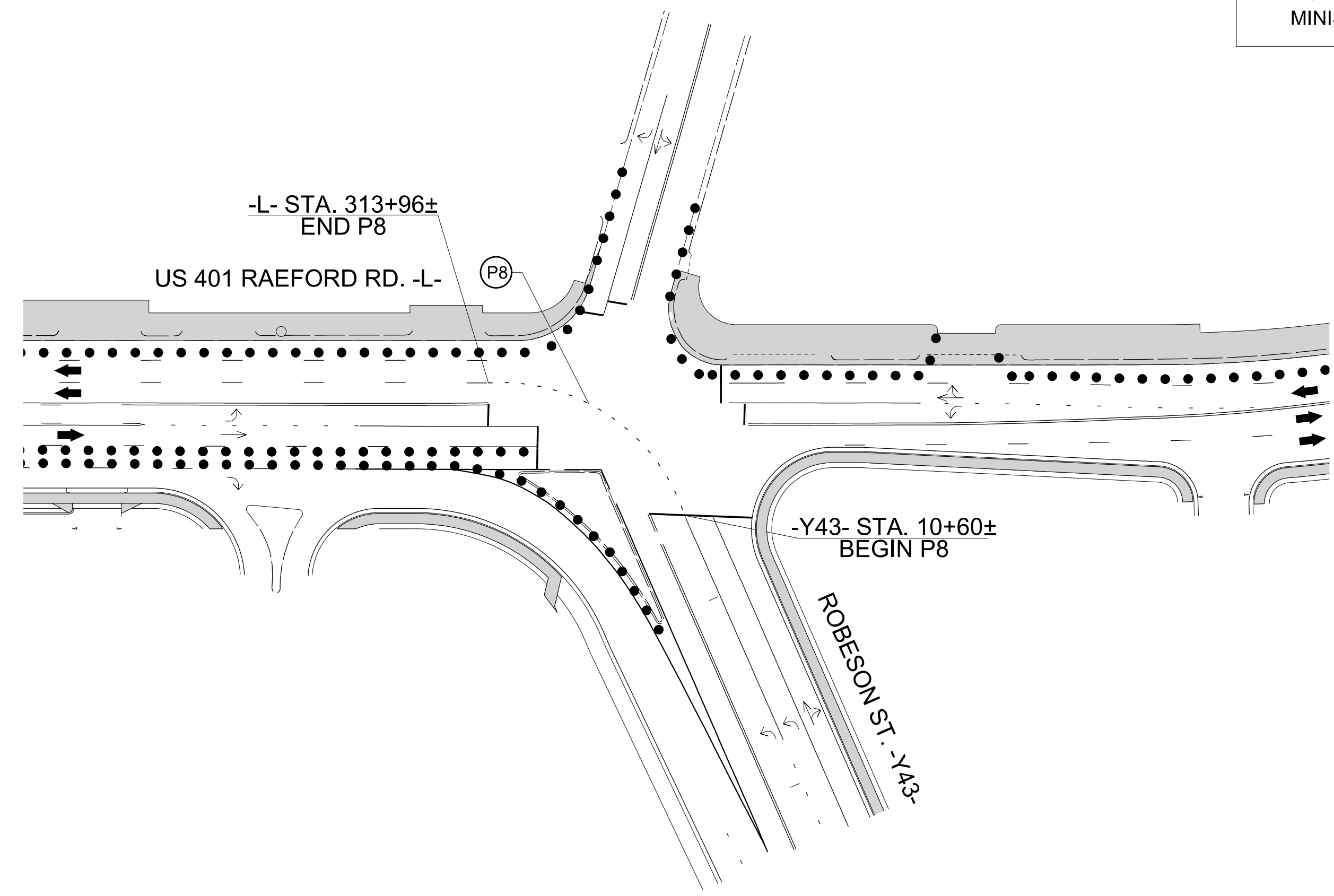
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US 401 -L-
 AT IRELAND DR -Y25-
 PHASE II DETAIL



TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE THE MINISKIPS FOR LANE CONTINUITY	

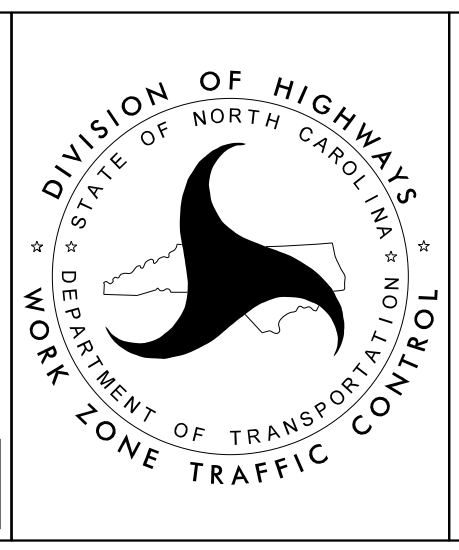


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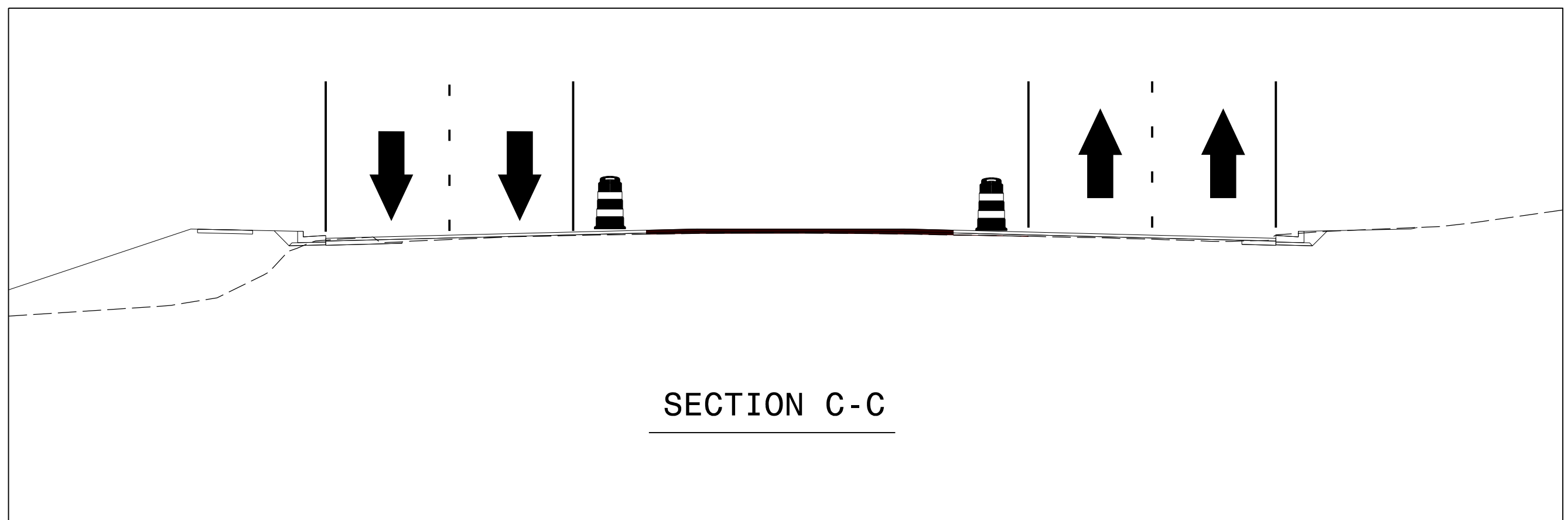
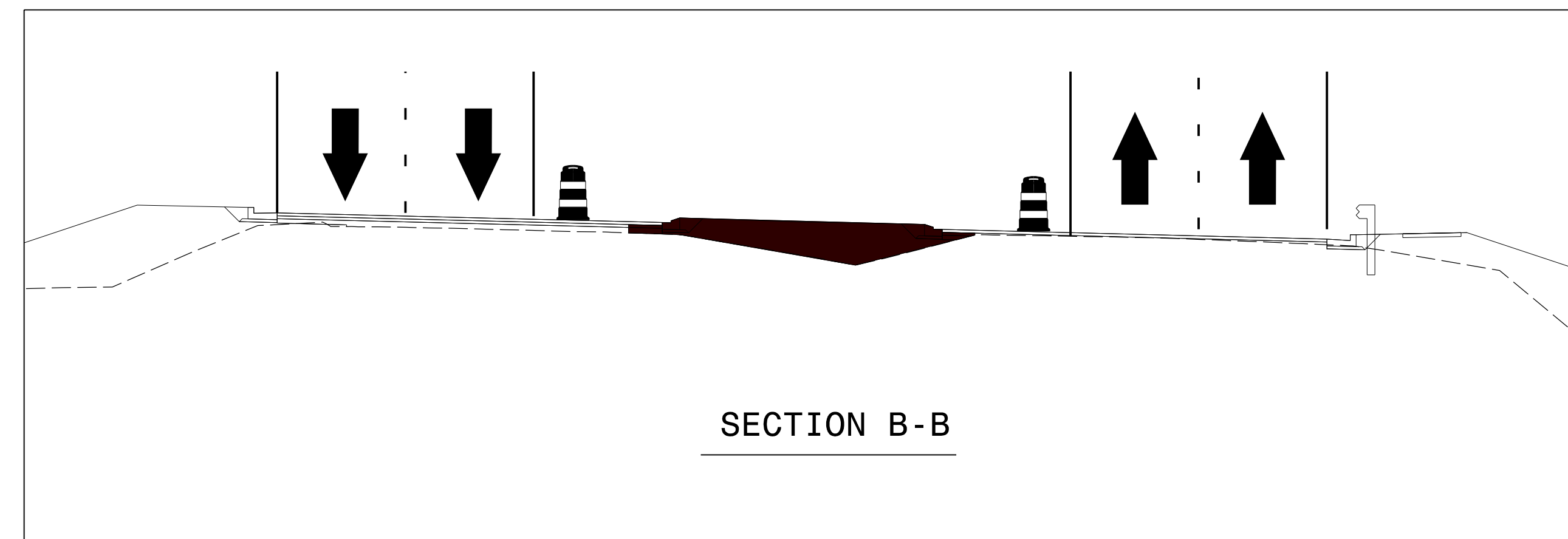
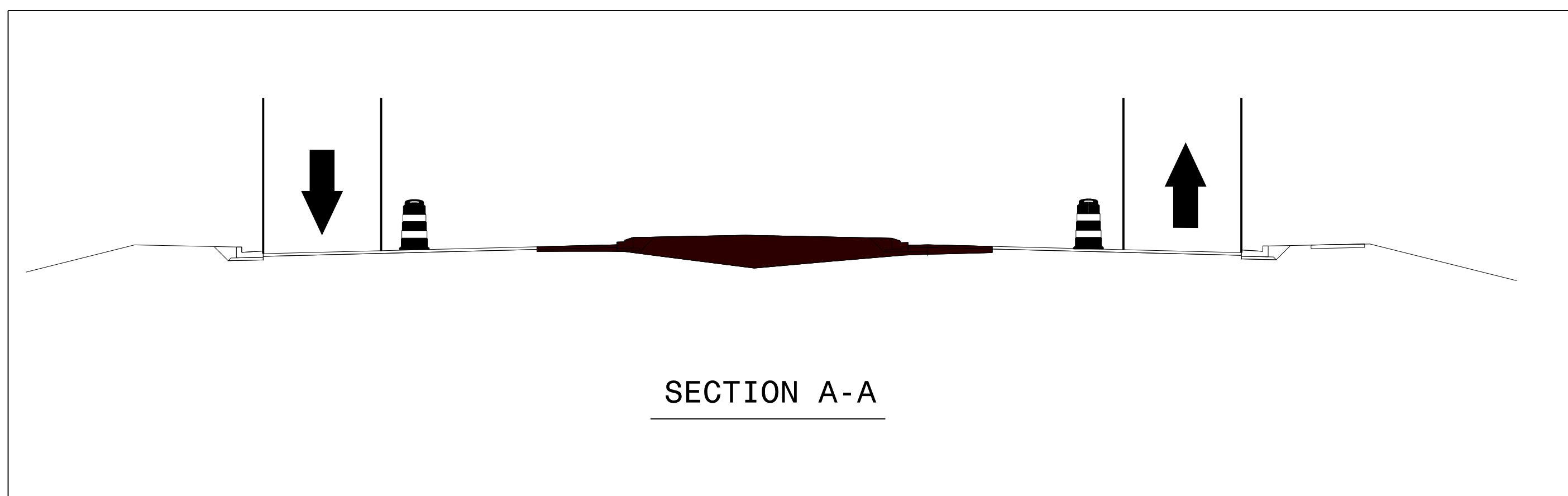
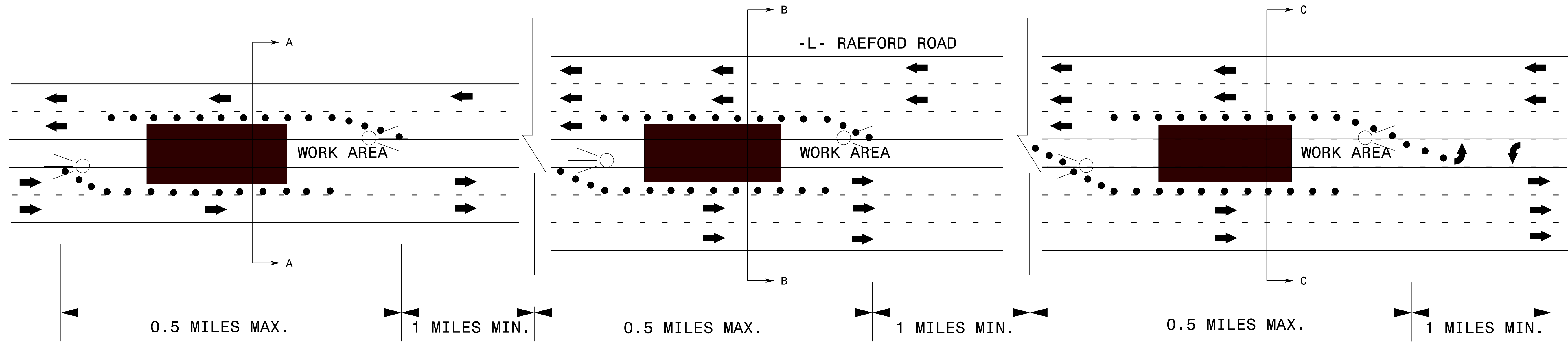
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**US 401 -L-
AT ROBESON ST -Y43-
PHASE II DETAIL**



- NOTES**
1. INSTALL ALL LANE CLOSURES USING RSD 1101.02 (SHEET 3 AND 7 OF 15)
 2. MAXIMUM LENGTH OF EACH LANE CLOSURE IS 0.5 MILES
 3. MINIMUM LENGTH BETWEEN LANE CLOSURES IS 1 MILES
 4. MAXIMUM NUMBER OF LANE CLOSURES IN ONE DIRECTION IS 3
 5. CONSTRUCT PROPOSED DRAINAGE, PAVEMENT, CURB & GUTTER AND/OR MONOLITHIC ISLANDS IN EACH WORK AREA

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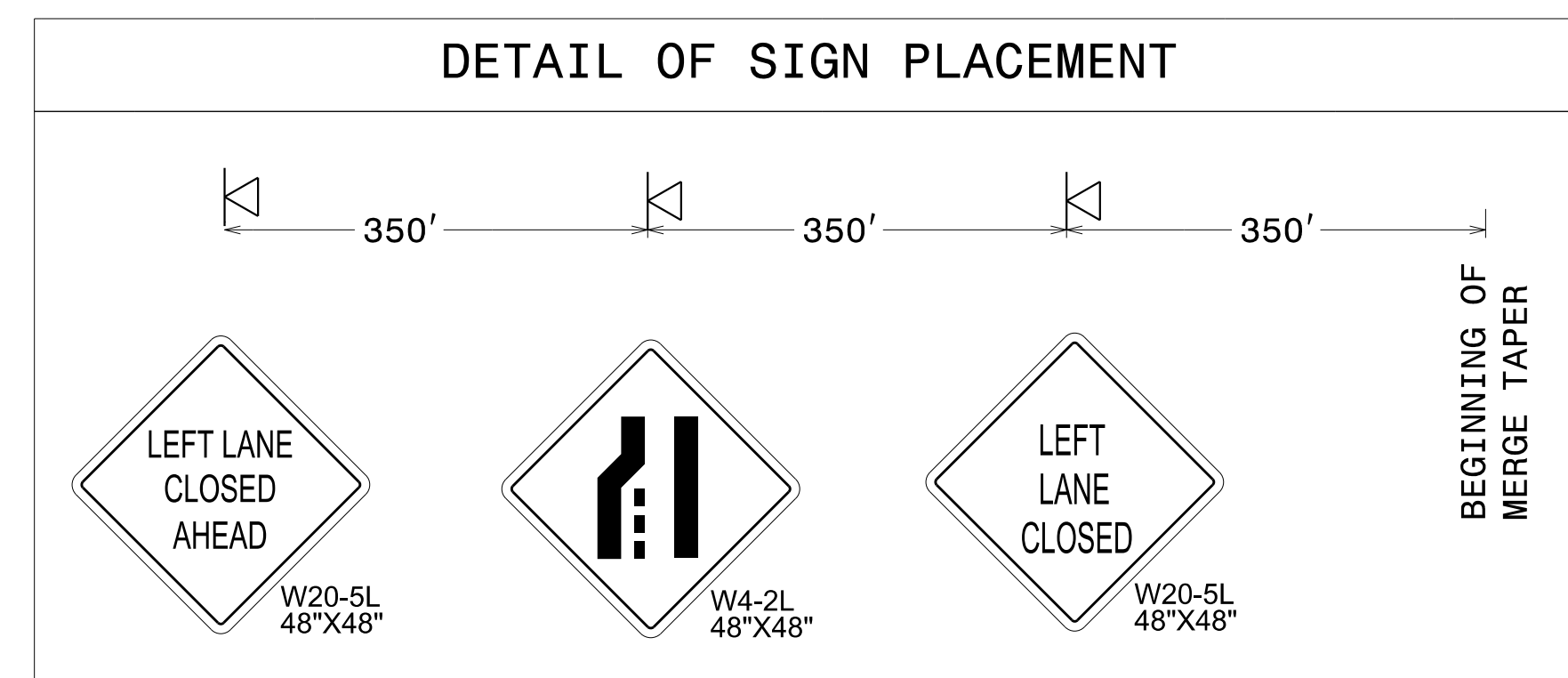
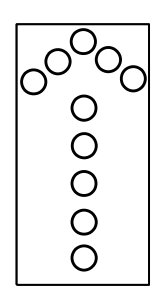
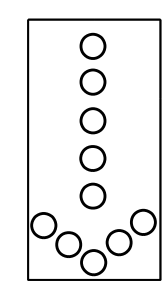
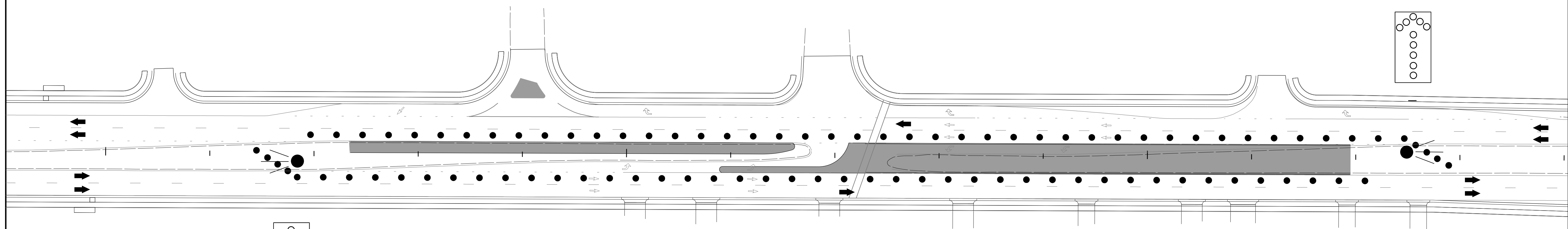
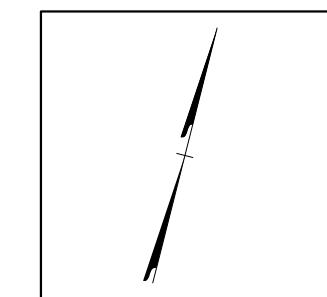
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 WORK ZONE TRAFFIC CONTROL

**PHASE III
 MEDIAN CONSTRUCTION
 DETAILS**



NOTES

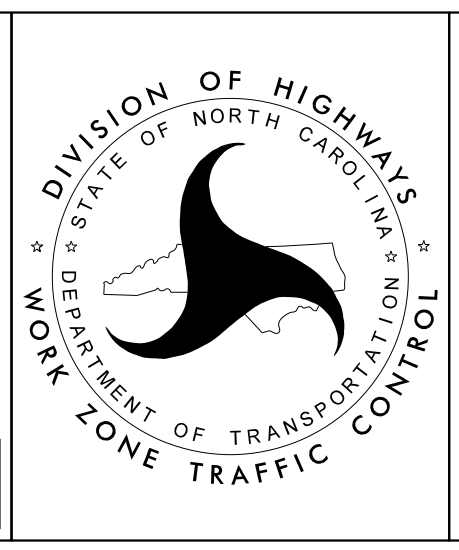
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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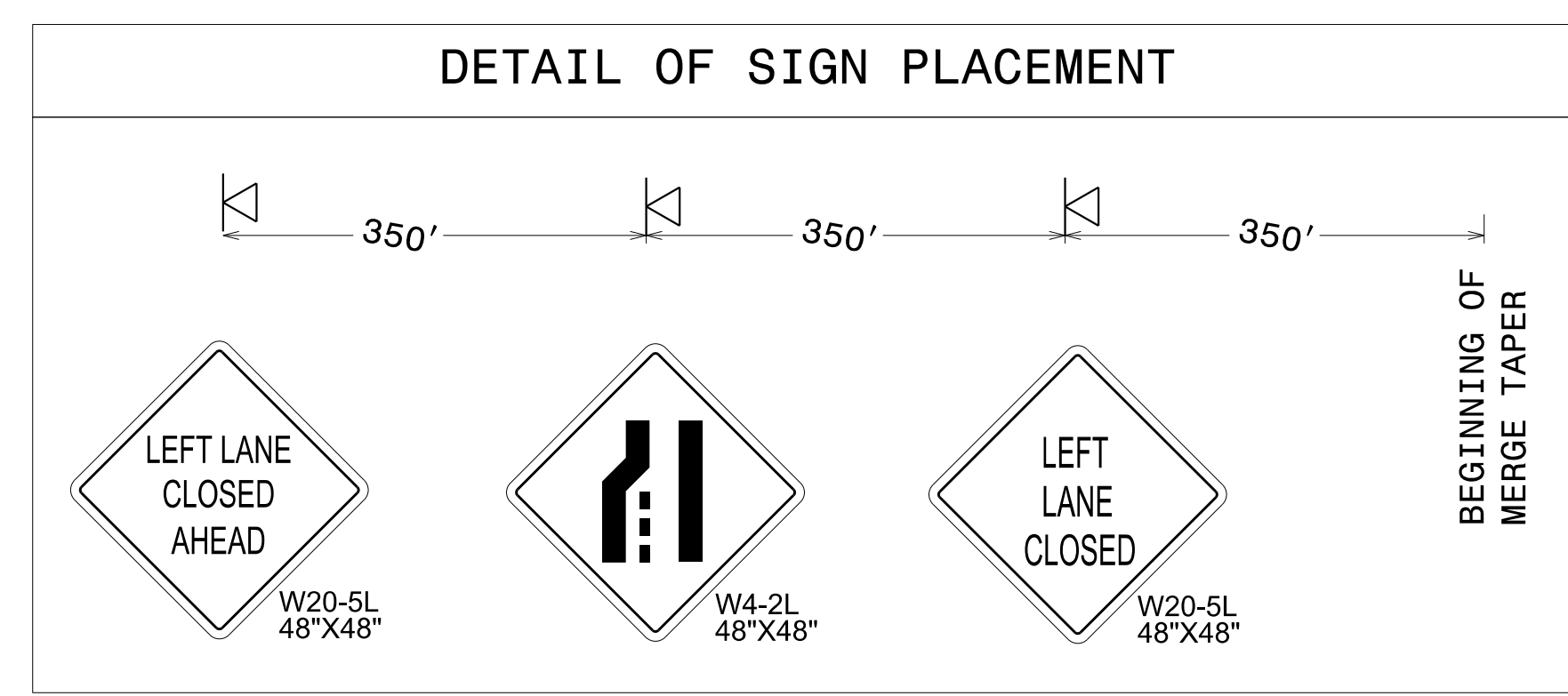
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**PHASE III
 MEDIAN CONSTRUCTION
 TYPICAL DRAWING**



NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

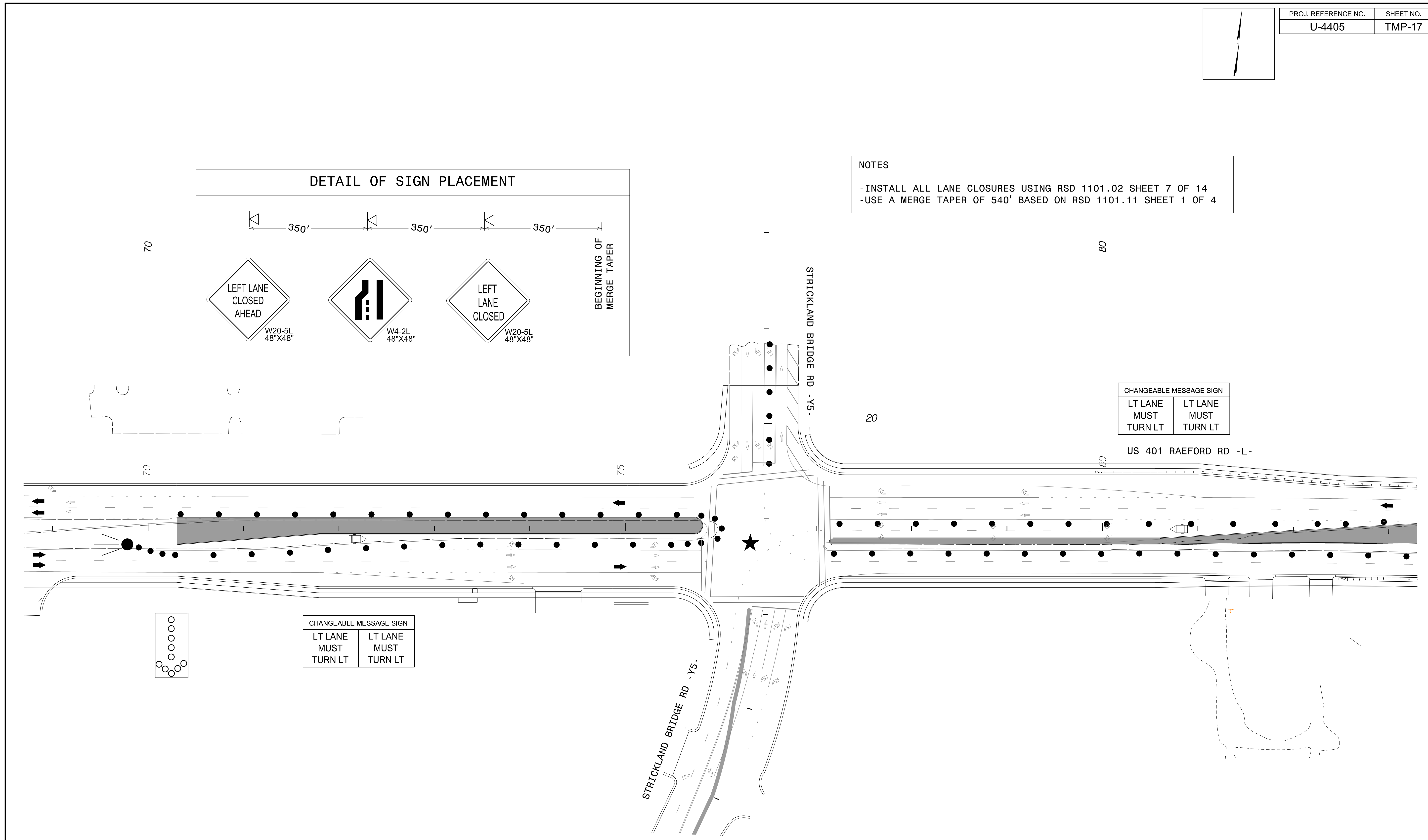
CHANGEABLE MESSAGE SIGN

LT LANE MUST TURN LT	LT LANE MUST TURN LT
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US 401 RAEFORD RD -L-

CHANGEABLE MESSAGE SIGN

LT LANE MUST TURN LT	LT LANE MUST TURN LT
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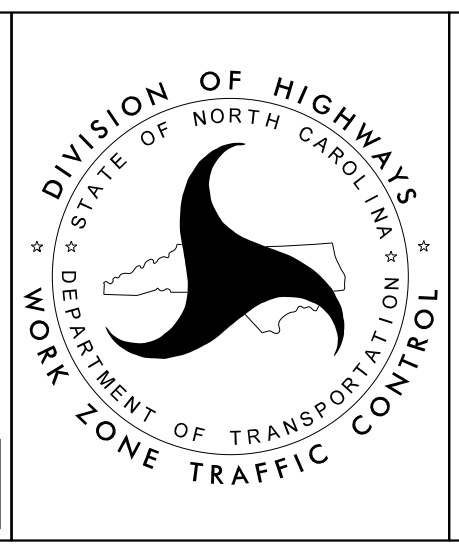
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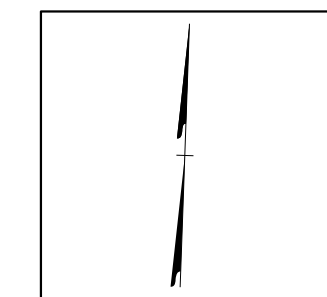
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W. WOOLARD, R.
ENGINEER

4/26/2018


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**PHASE III
MEDIAN CONSTRUCTION
INTERSECTION
TYPICAL DRAWING**

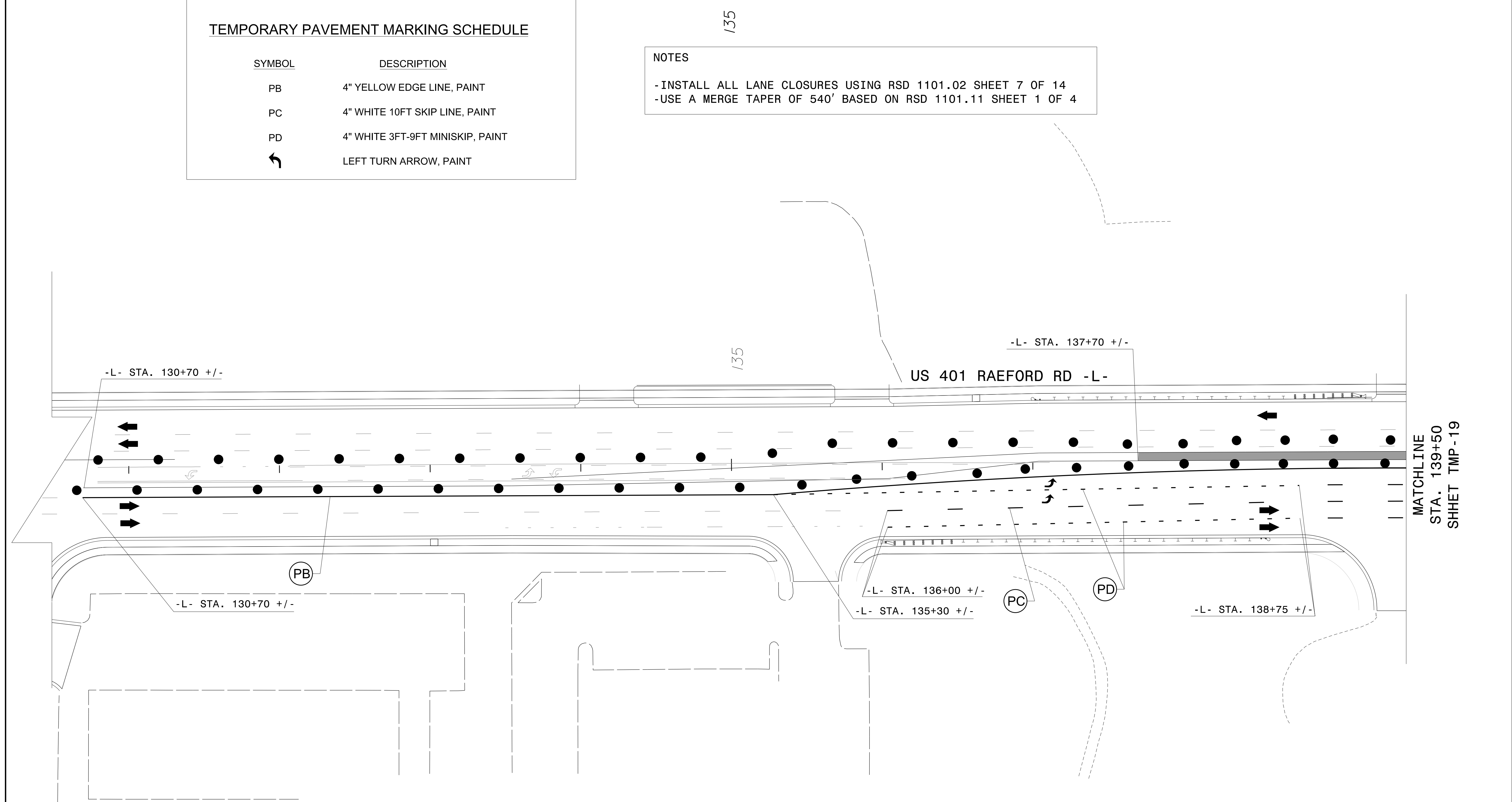


TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PB	4" YELLOW EDGE LINE, PAINT
PC	4" WHITE 10FT SKIP LINE, PAINT
PD	4" WHITE 3FT-9FT MINISKIP, PAINT
	LEFT TURN ARROW, PAINT

NOTES

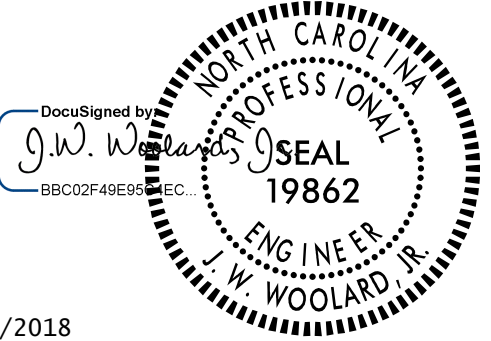
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

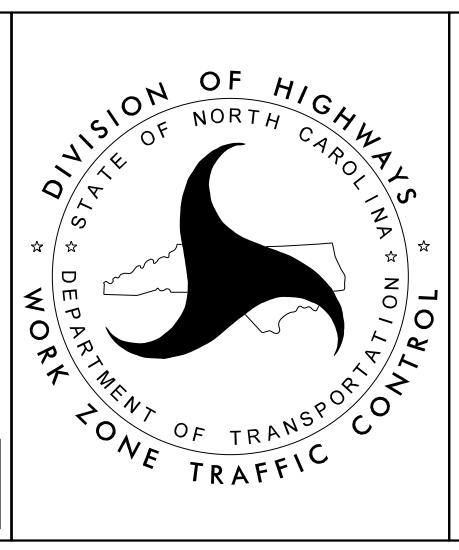


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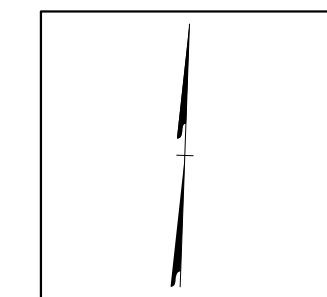


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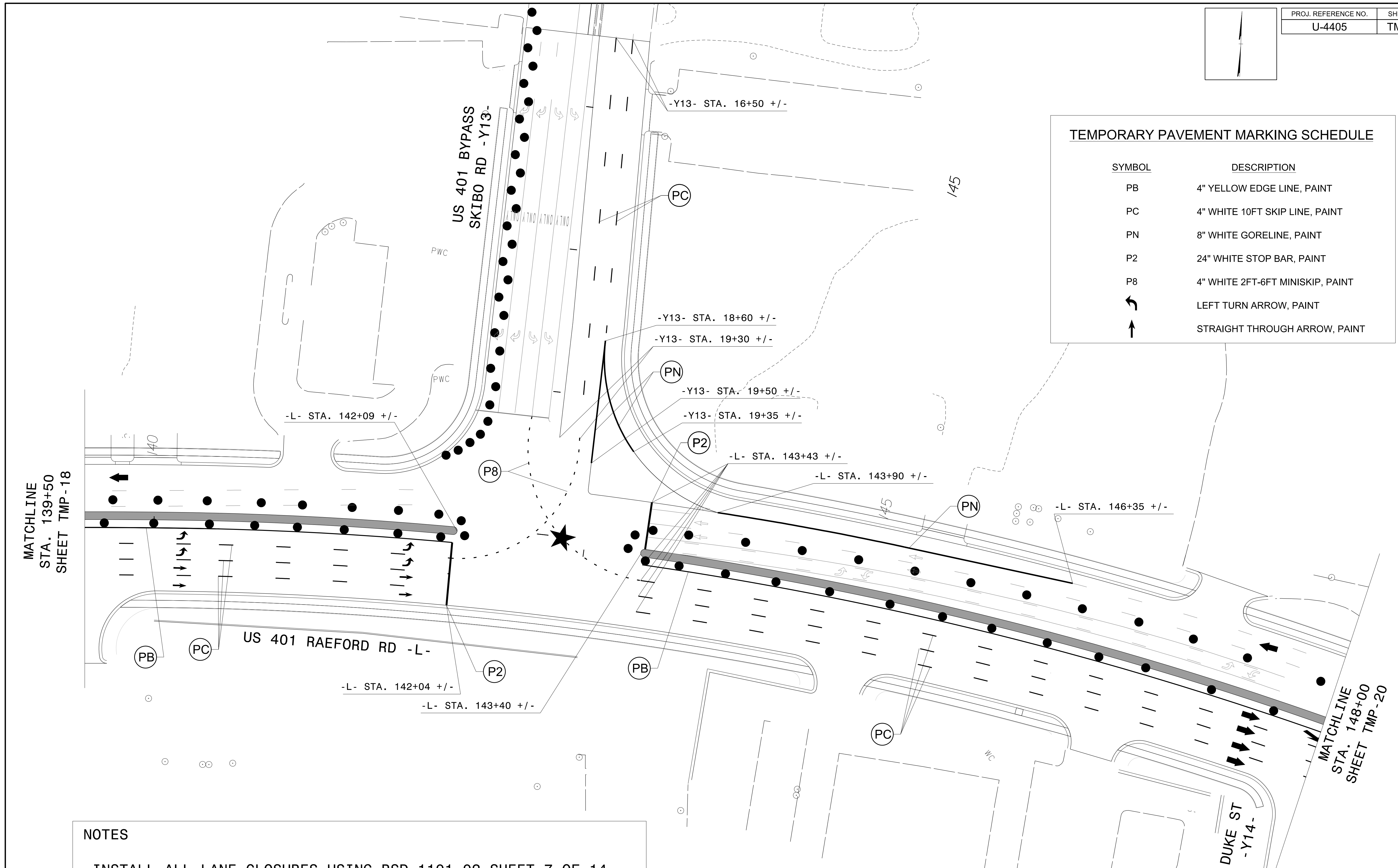


**US 401 -L-
 PHASE III
 STEP 2**



TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PB	4" YELLOW EDGE LINE, PAINT
PC	4" WHITE 10FT SKIP LINE, PAINT
PN	8" WHITE GORELINE, PAINT
P2	24" WHITE STOP BAR, PAINT
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
↩	LEFT TURN ARROW, PAINT
↑	STRAIGHT THROUGH ARROW, PAINT



NOTES

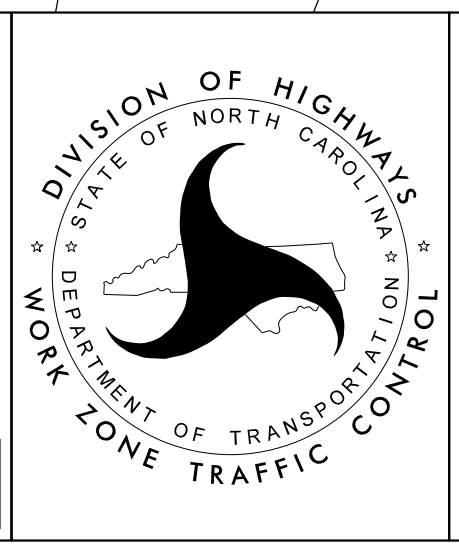
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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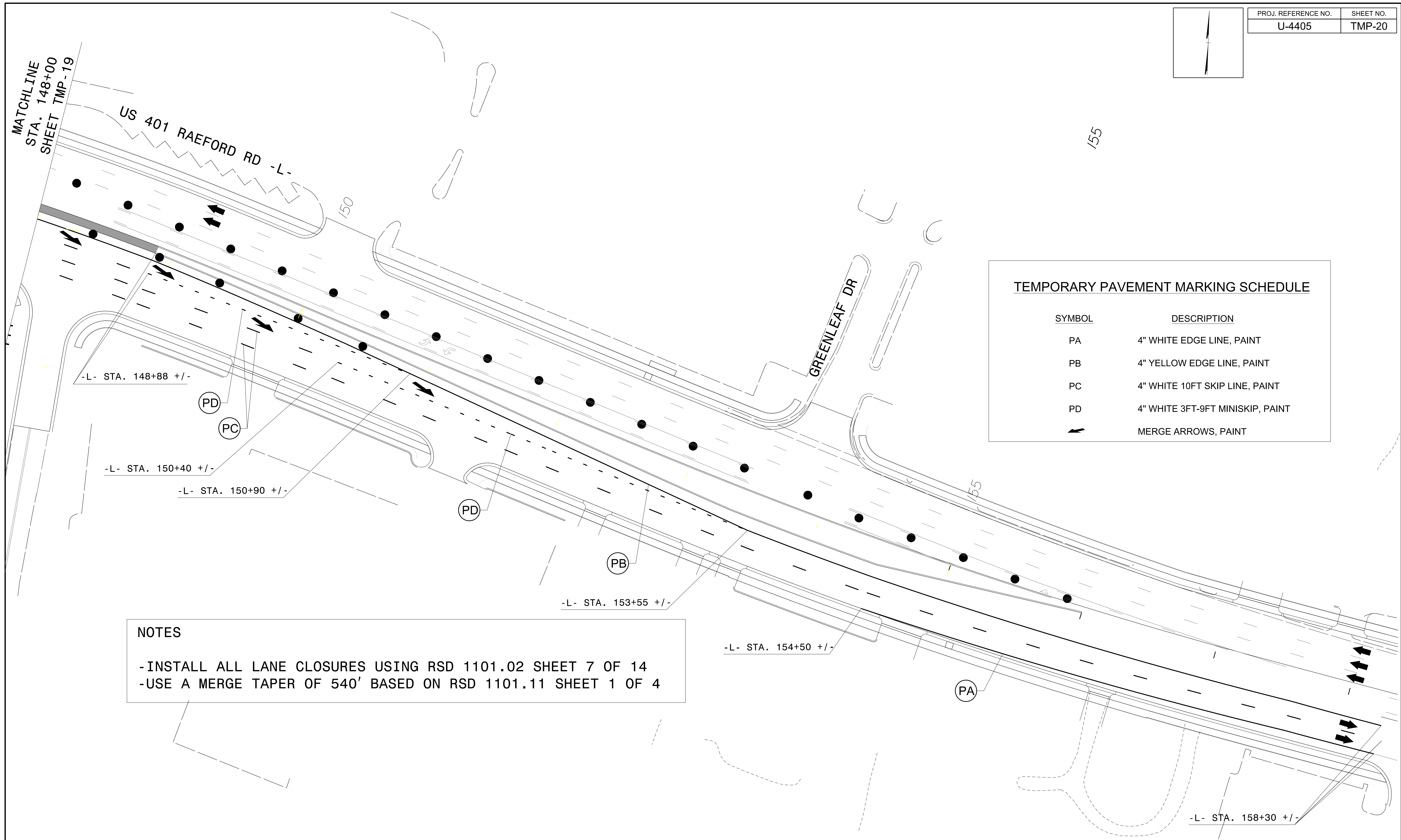
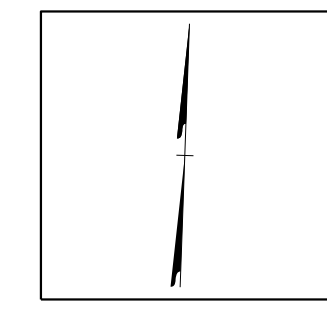
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US 401 -L-
 PHASE III
 STEP 2



TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
PA	4" WHITE EDGE LINE, PAINT
PB	4" YELLOW EDGE LINE, PAINT
PC	4" WHITE 10FT SKIP LINE, PAINT
PD	4" WHITE 3FT-9FT MINISKIP, PAINT
	MERGE ARROWS, PAINT

NOTES

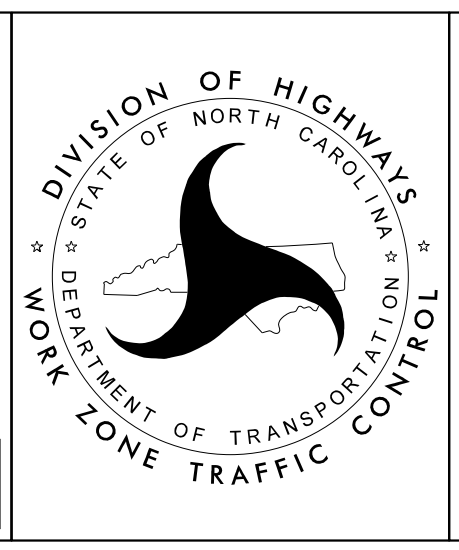
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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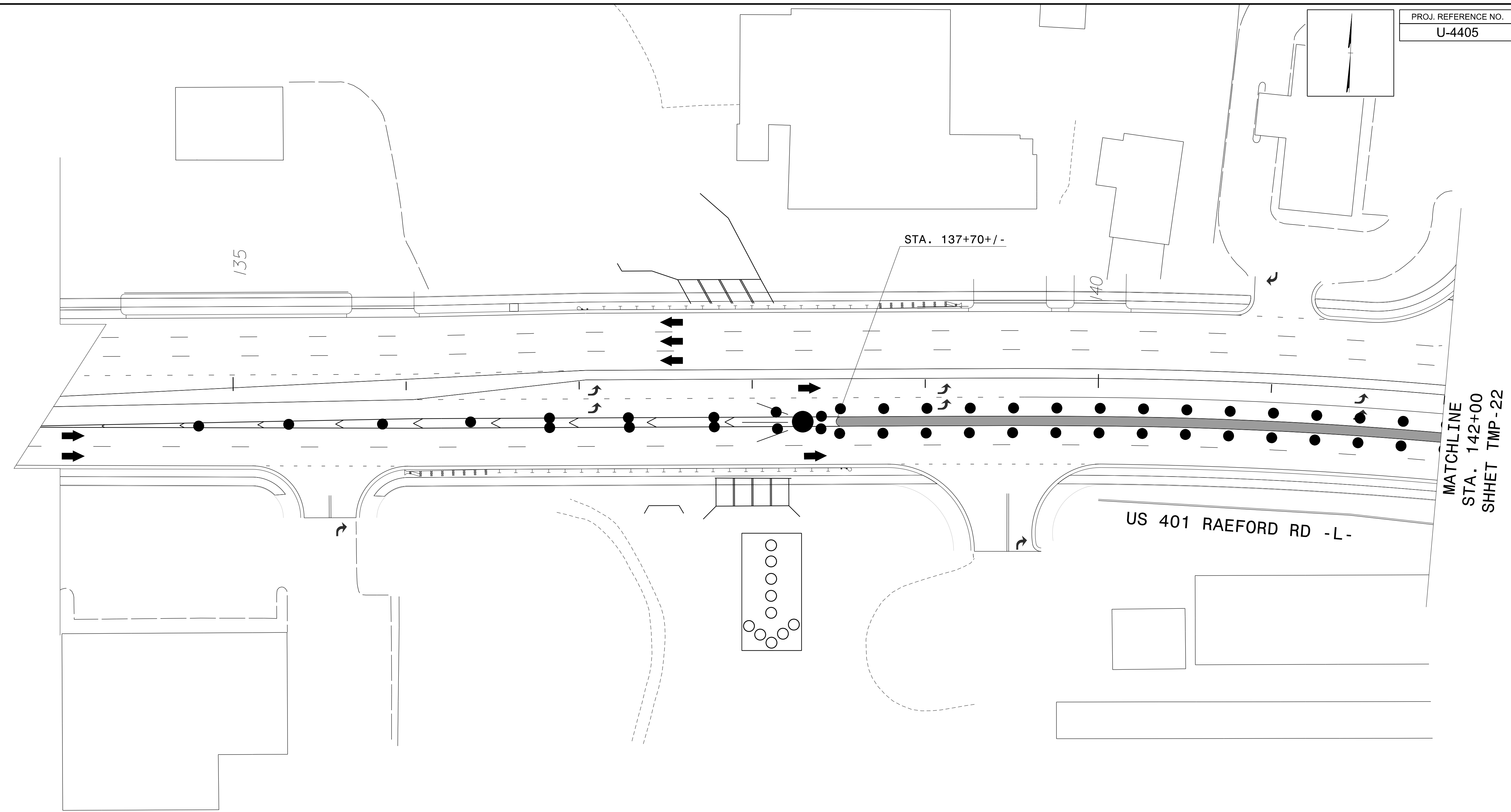
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**US 401 -L-
 PHASE III
 STEP 2**



NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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DEPARTMENT OF TRANSPORTATION
WORK ZONE TRAFFIC CONTROL

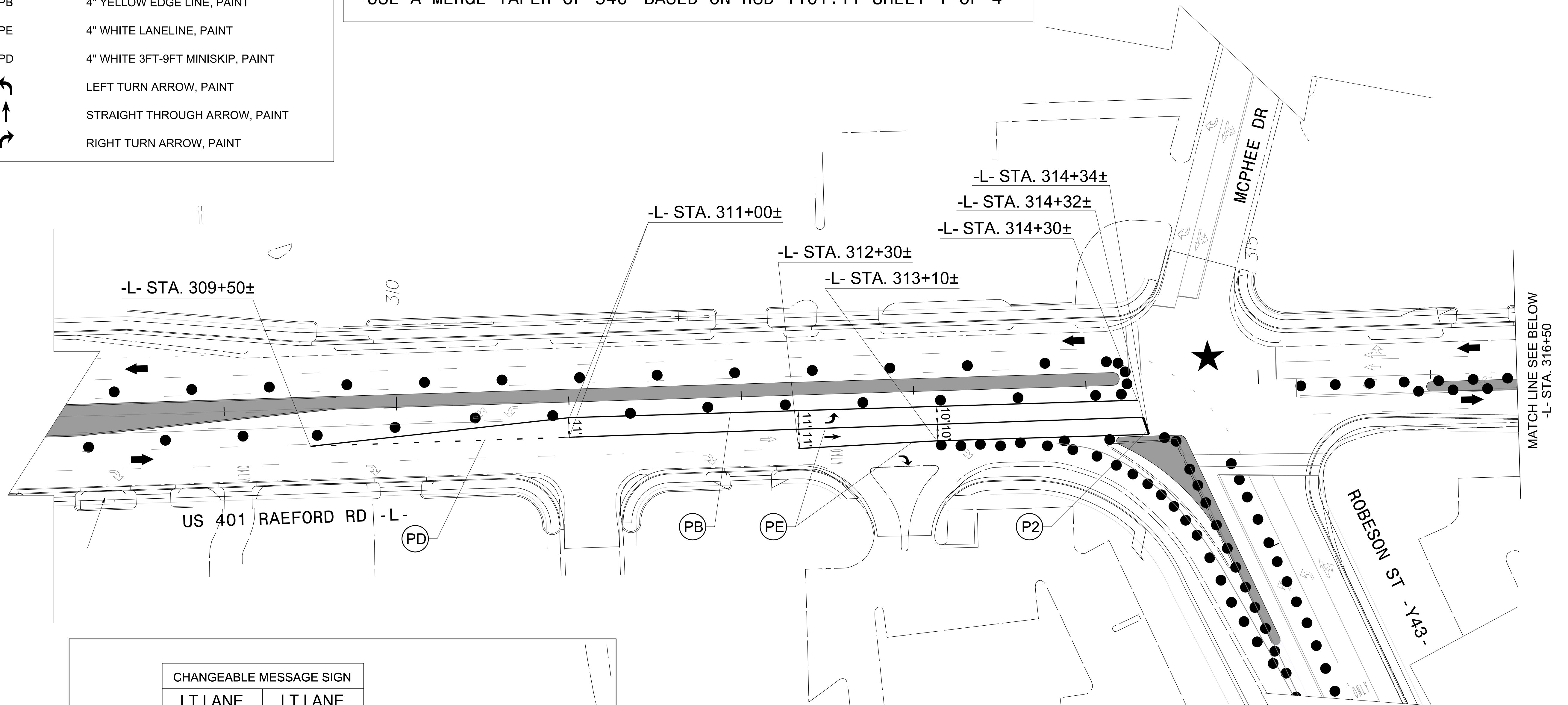
US 401 -L-
PHASE III
STEP 3

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P2	24" WHITE STOP BAR, PAINT
PB	4" YELLOW EDGE LINE, PAINT
PE	4" WHITE LANELINE, PAINT
PD	4" WHITE 3FT-9FT MINISKIP, PAINT
	LEFT TURN ARROW, PAINT
	STRAIGHT THROUGH ARROW, PAINT
	RIGHT TURN ARROW, PAINT

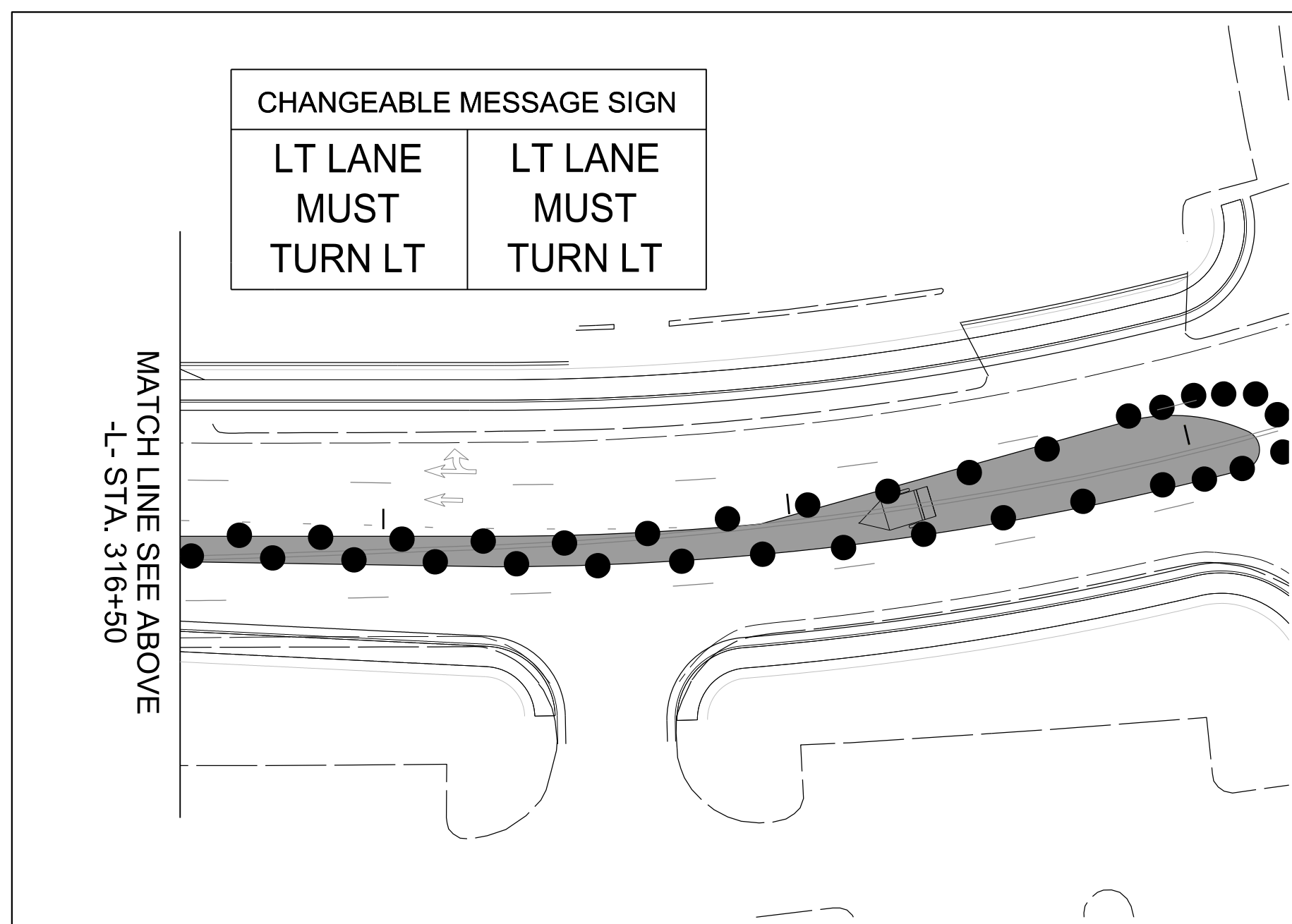
NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4




MATCH LINE SEE BELOW
-L- STA. 316+50

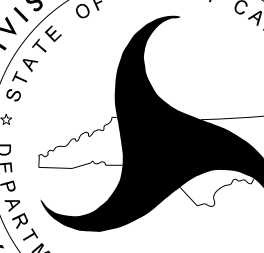
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LT LANE MUST TURN LT	LT LANE MUST TURN LT



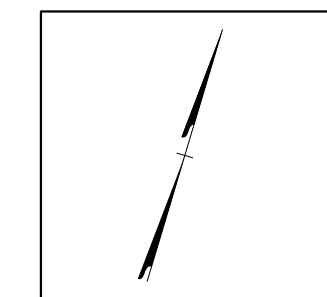
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 STATE OF NORTH CAROLINA

 DEPARTMENT OF TRANSPORTATION
 WORK ZONE TRAFFIC CONTROL

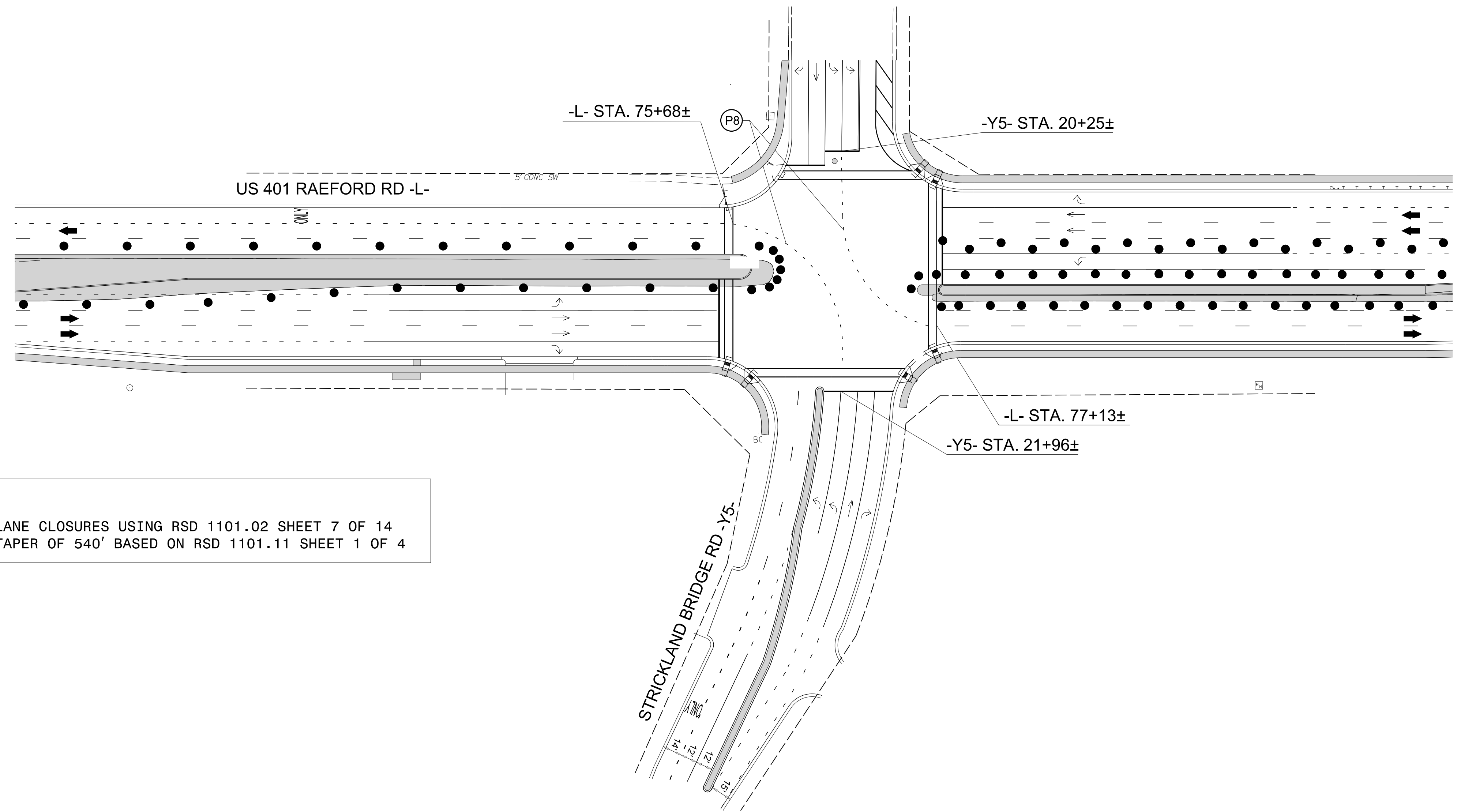
US 401 -L-
 PHASE III



TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE THE MINI-SKIPS FOR LANE CONTINUITY.

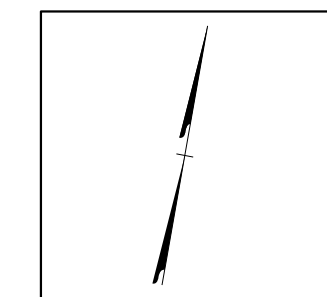


NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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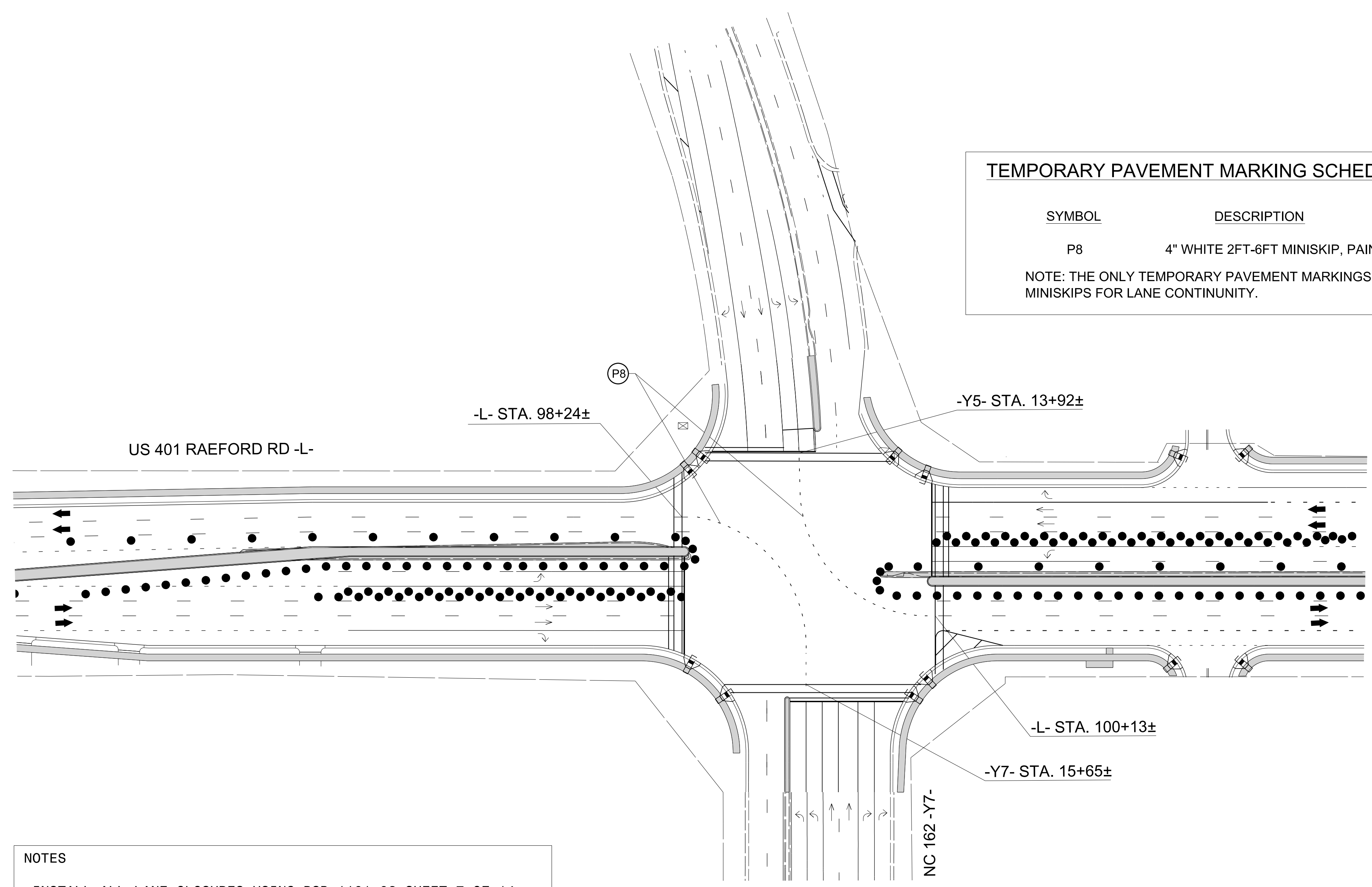
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TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINISKIPS FOR LANE CONTINUITY.

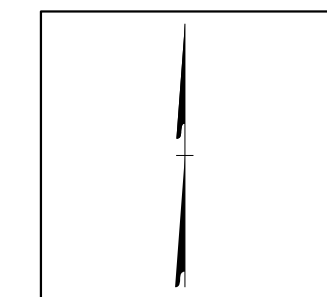


NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

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NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

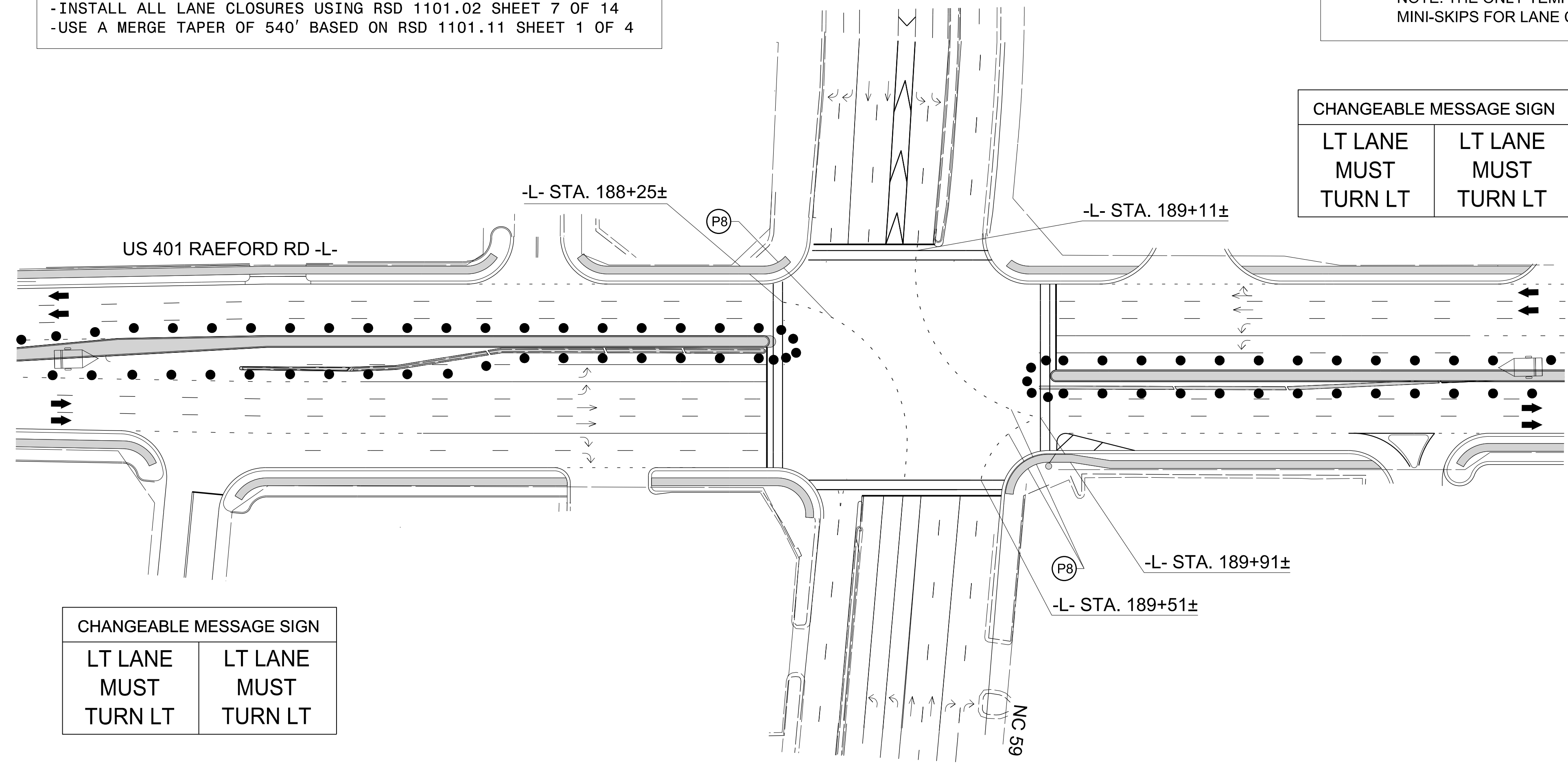
TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINI-SKIPS FOR LANE CONTINUITY.

CHANGEABLE MESSAGE SIGN

LT LANE MUST TURN LT	LT LANE MUST TURN LT
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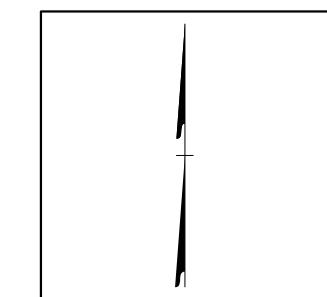


CHANGEABLE MESSAGE SIGN

LT LANE MUST TURN LT	LT LANE MUST TURN LT
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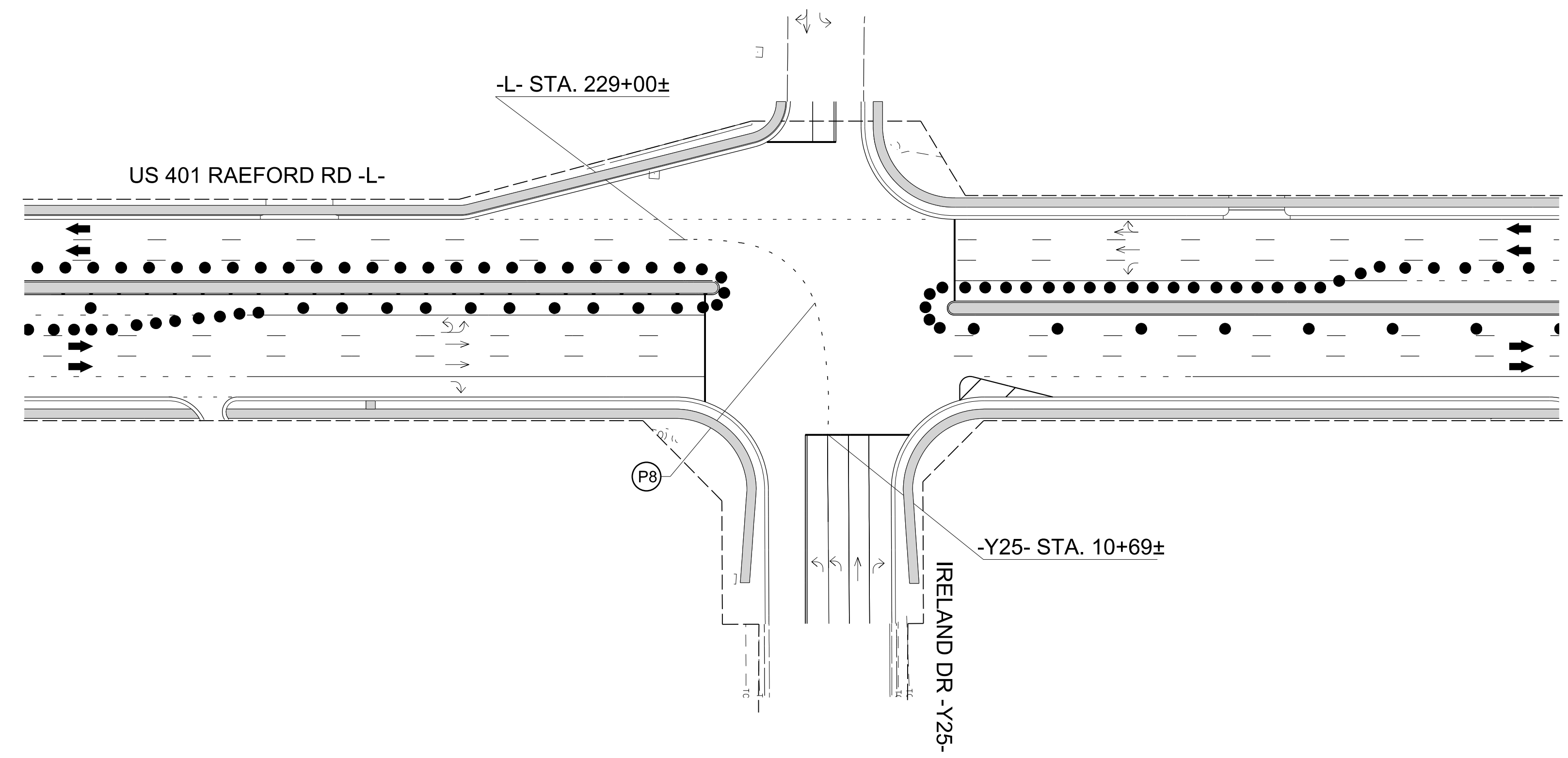
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TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINI-SKIPS FOR LANE CONTINUITY.	

NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

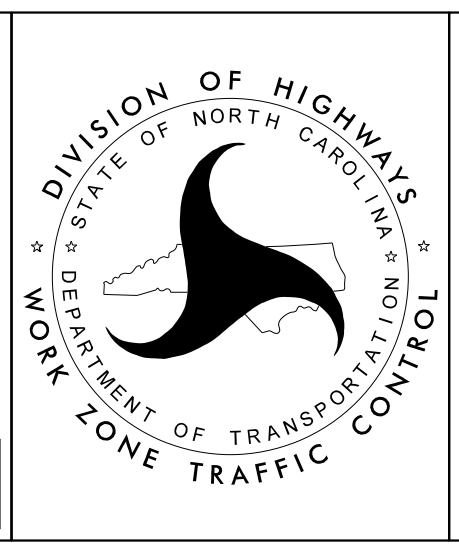


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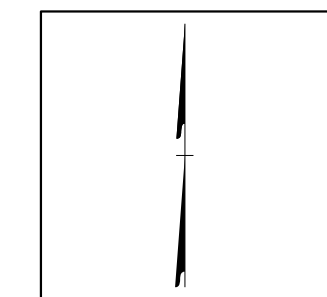
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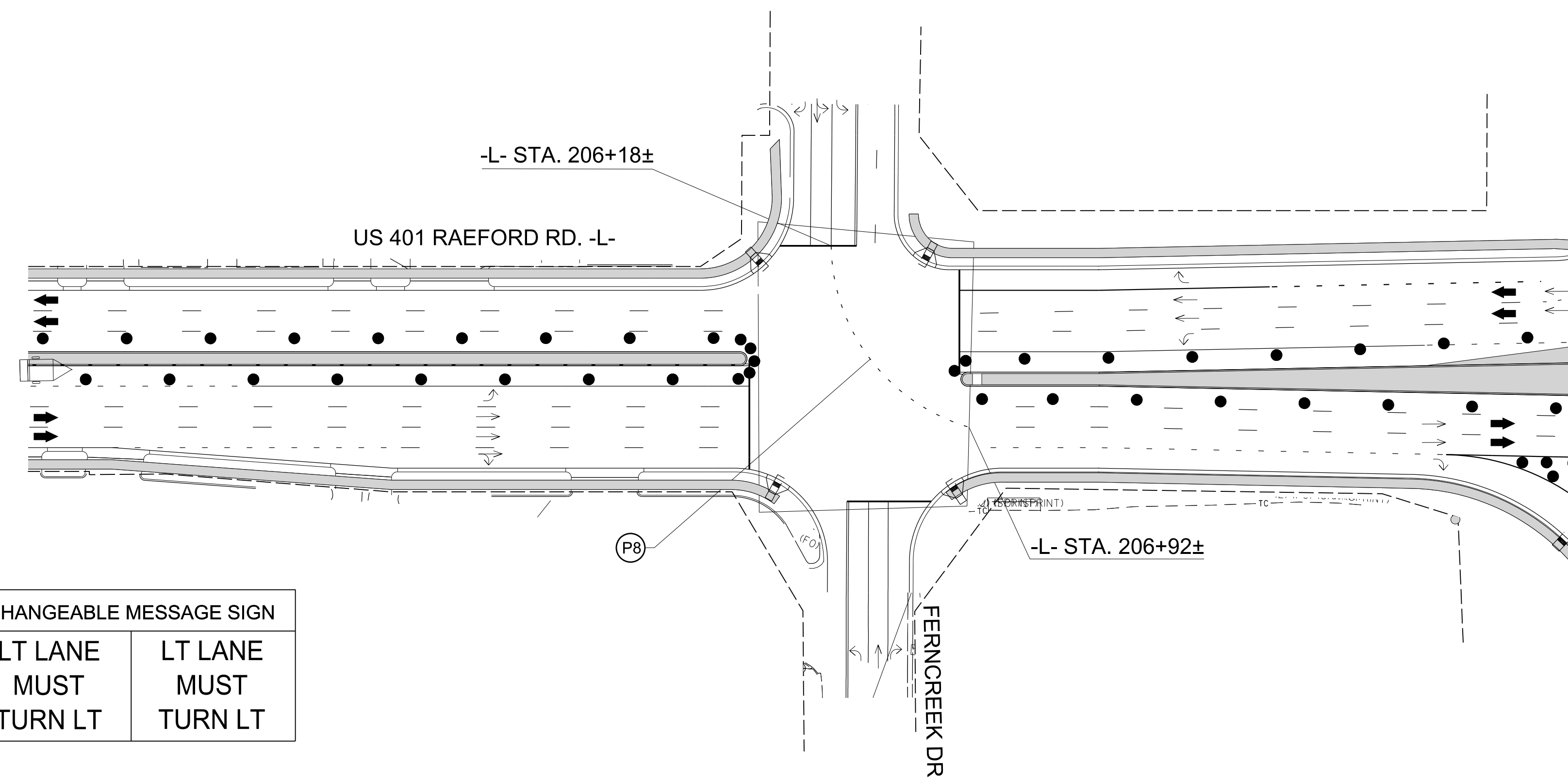
US 401 -L-
 AT IRELAND DR -Y25-
 PHASE III DETAIL



TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT
NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINI-SKIPS FOR LANE CONTINUITY.	

NOTES

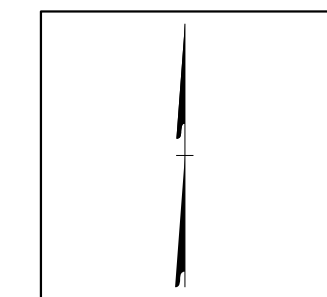
- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4



CHANGEABLE MESSAGE SIGN	
LT LANE MUST TURN LT	LT LANE MUST TURN LT

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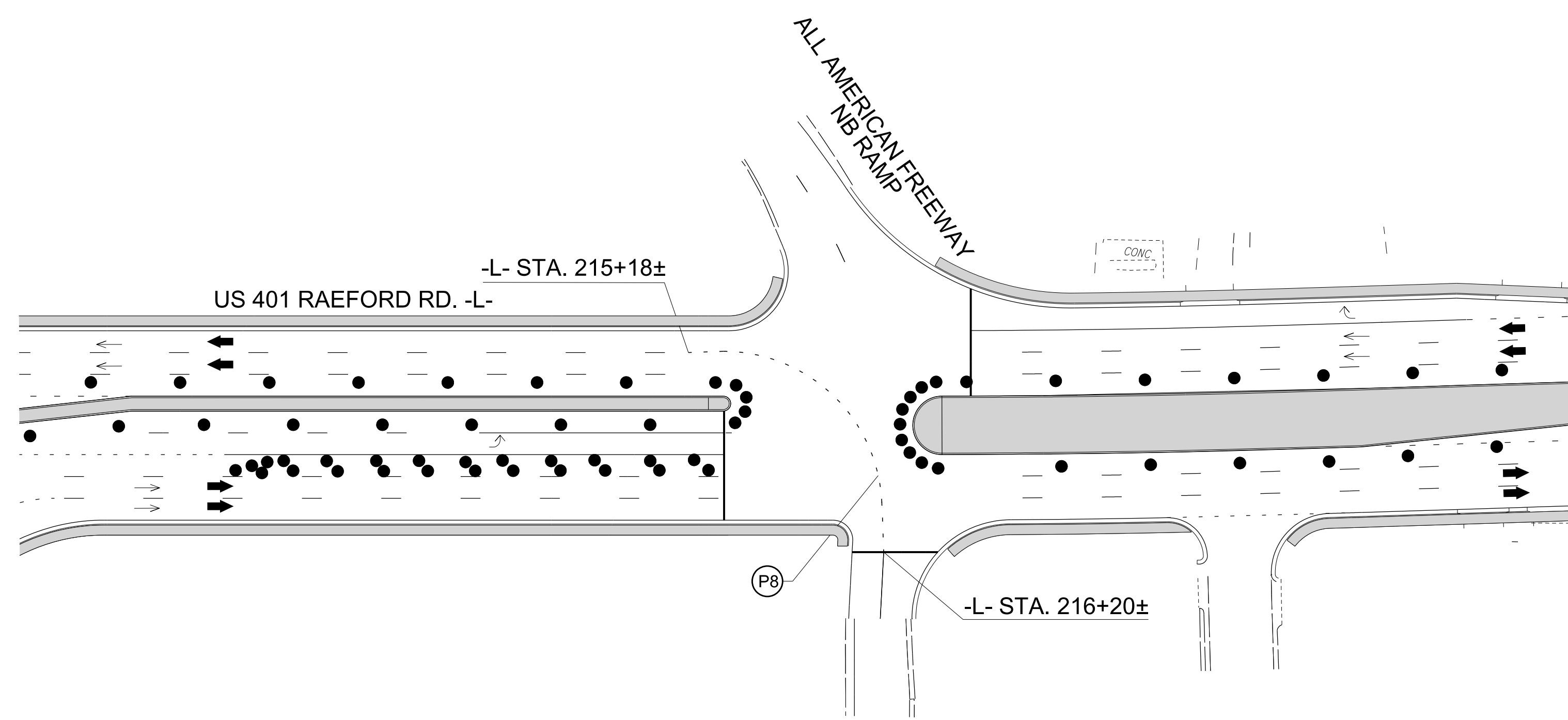
NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINISKIPS FOR LANE CONTINUITY.



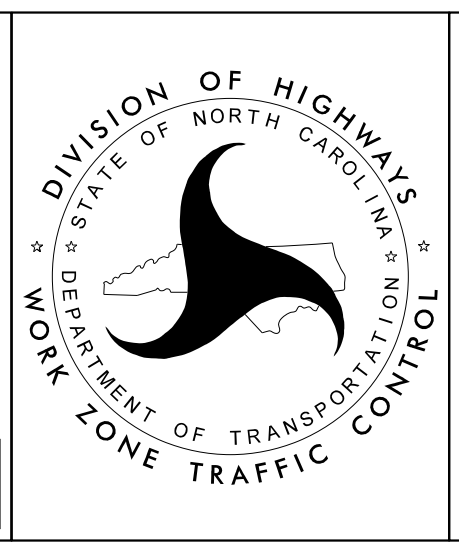
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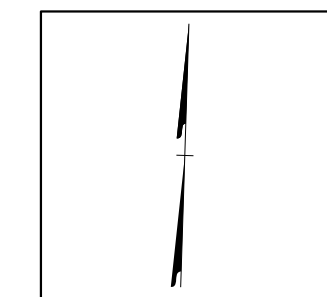
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**US 401 -L-
 AT ALL AMERICAN FREEWAY
 NORTHBOUND RAMPS
 PHASE III DETAIL**



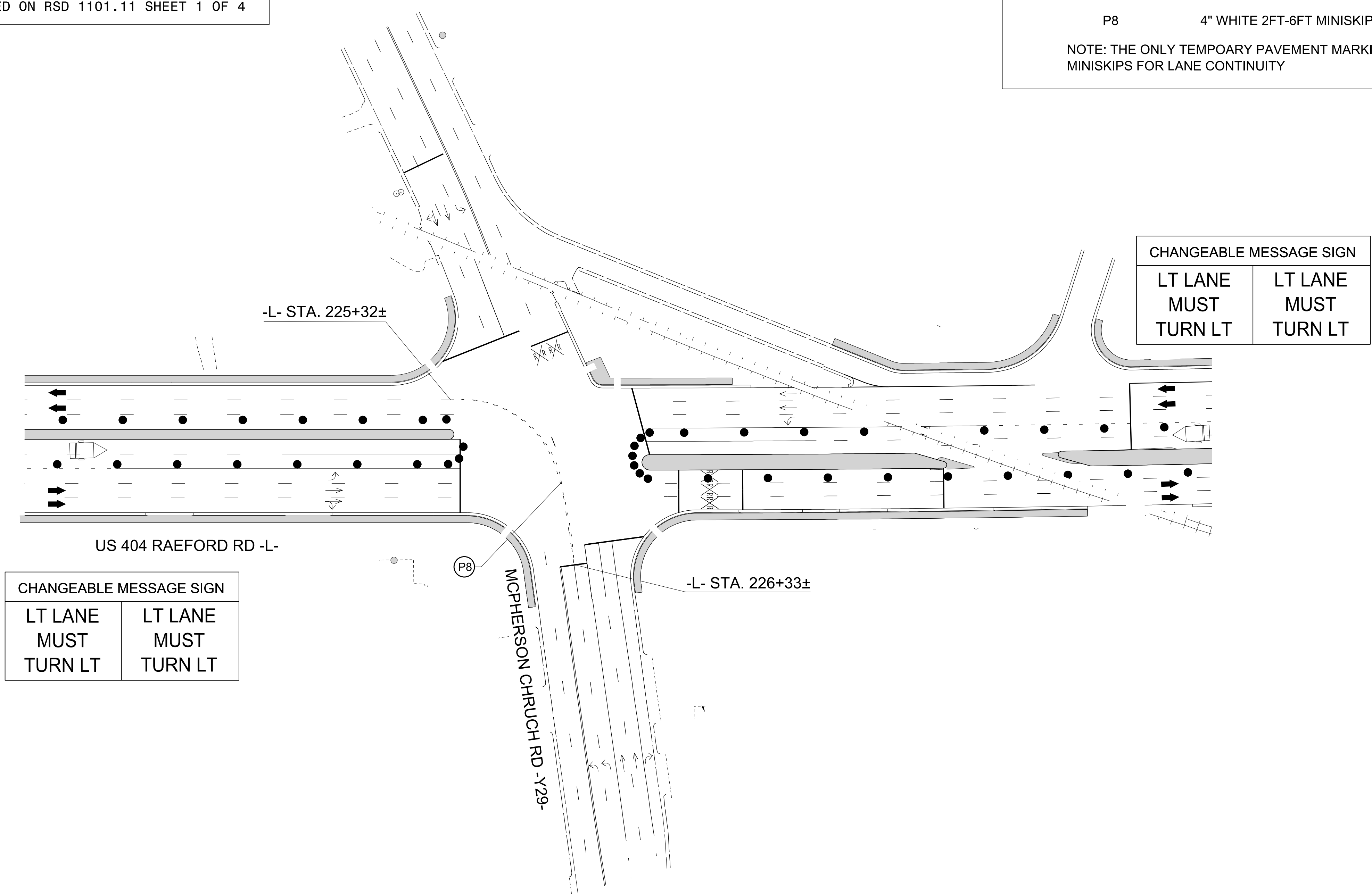
NOTES

- INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
- USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPOARY PAVEMENT MARKINGS ARE MINISKIPS FOR LANE CONTINUITY



CHANGEABLE MESSAGE SIGN

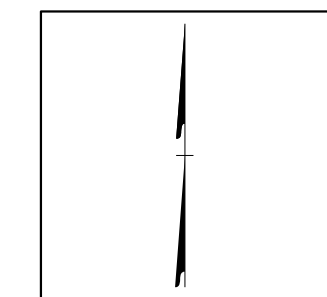
LT LANE MUST TURN LT	LT LANE MUST TURN LT
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CHANGEABLE MESSAGE SIGN

LT LANE MUST TURN LT	LT LANE MUST TURN LT
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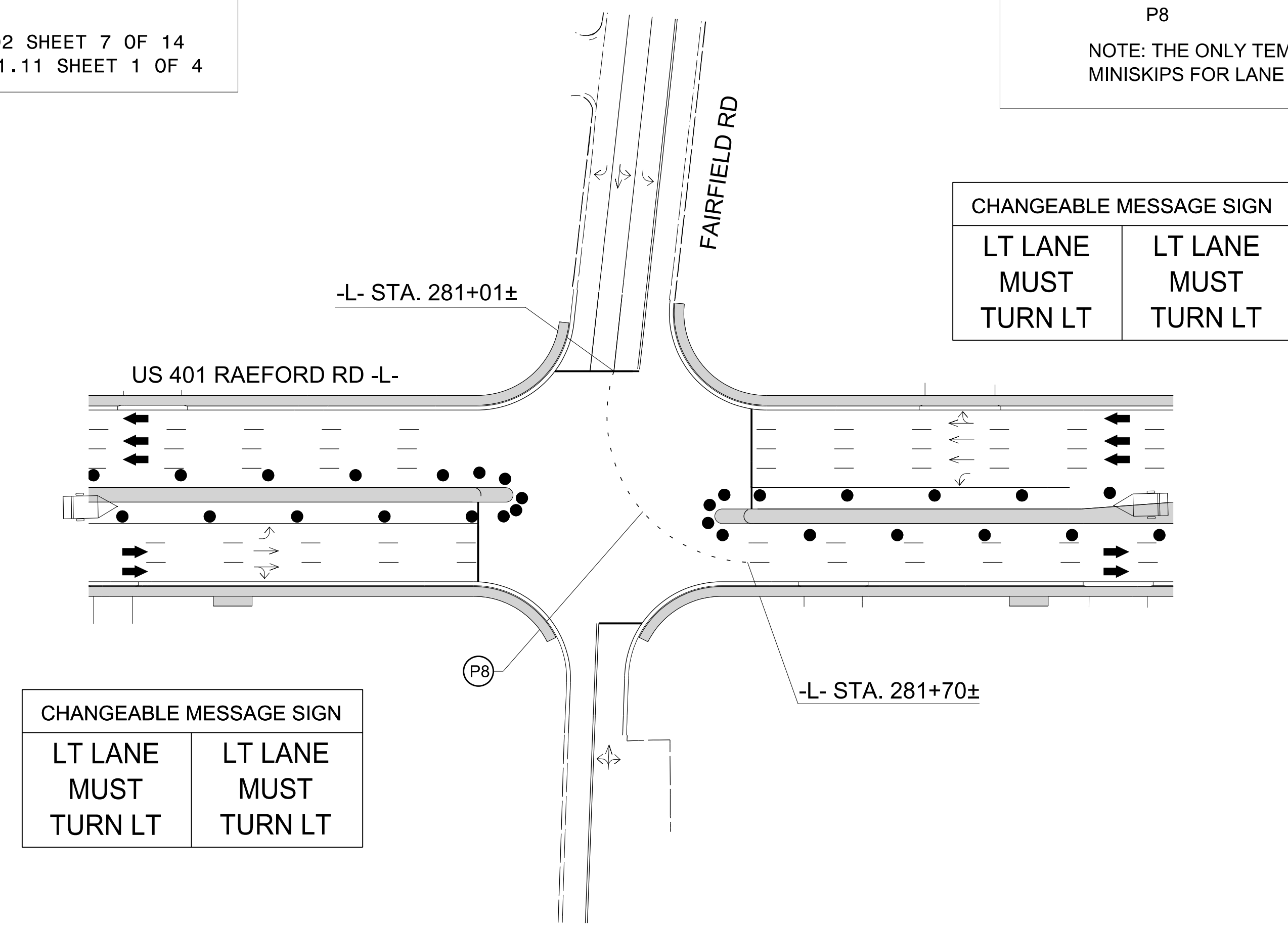


NOTES
 -INSTALL ALL LANE CLOSURES USING RSD 1101.02 SHEET 7 OF 14
 -USE A MERGE TAPER OF 540' BASED ON RSD 1101.11 SHEET 1 OF 4

TEMPORARY PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
P8	4" WHITE 2FT-6FT MINISKIP, PAINT

NOTE: THE ONLY TEMPORARY PAVEMENT MARKINGS ARE MINISKIPS FOR LANE CONTINUITY



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