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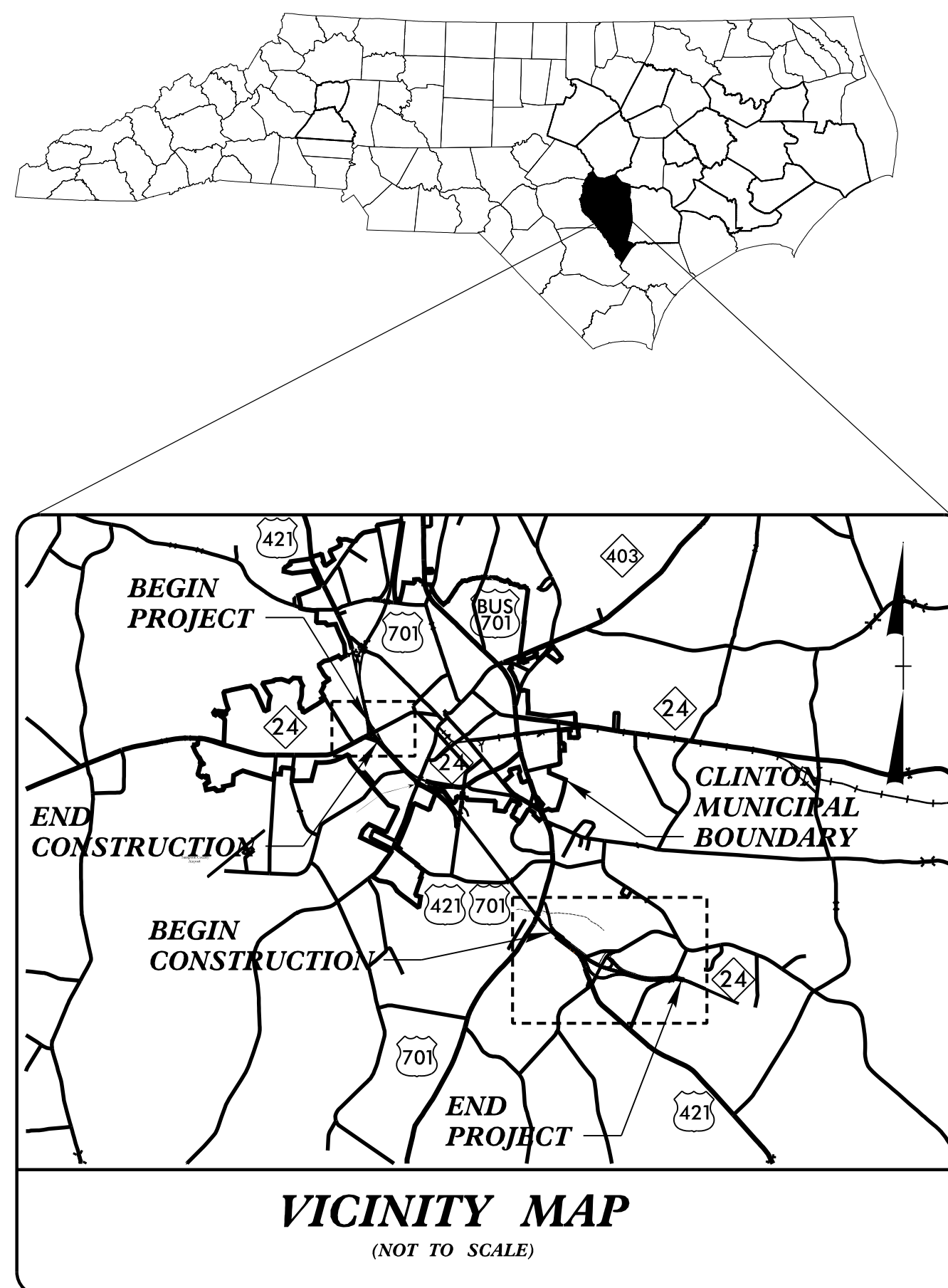
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**SAMPSON COUNTY**

**LOCATION: NC 24 AT SR 1296 (SUNSET AVE) AND  
NC 24 FROM US 701 (SOUTHEAST BLVD.) TO  
EAST OF SR 1935 (CECIL-ODIE RD)**



**INDEX OF SHEETS**

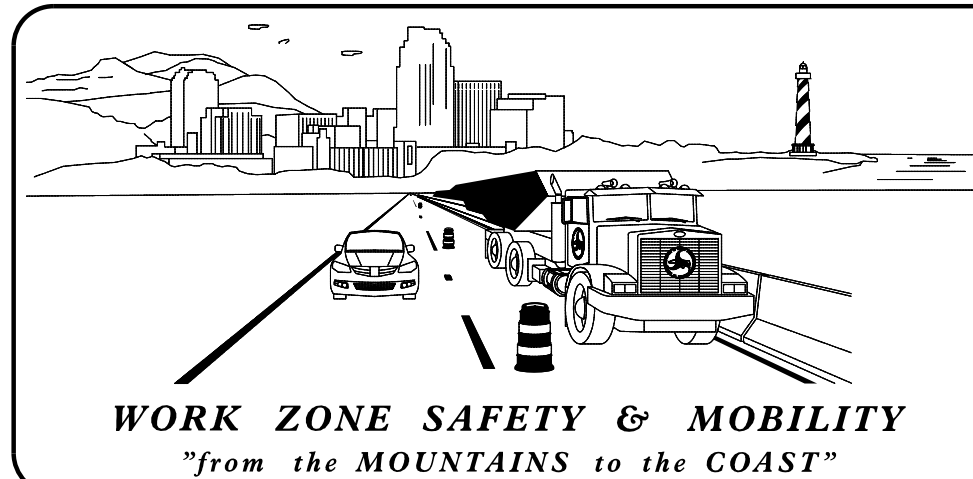
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SHEET NO.  
TMP-1

**R-2303E**

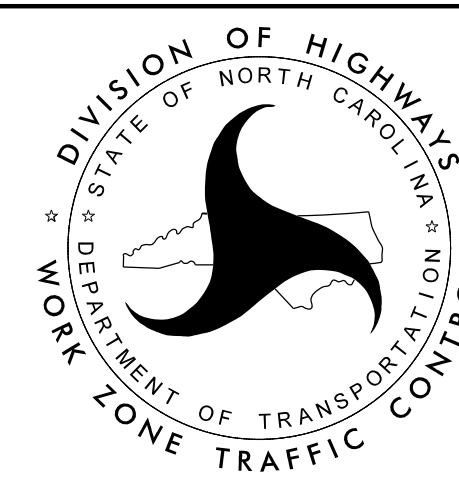
**TIP PROJECT:**

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**N.C.D.O.T. WORK ZONE TRAFFIC CONTROL**  
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APPROVED: Timothy R. Reid  
DATE: 11/5/2019

SEAL

# ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUM
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	POSITIVE PROTECTION
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

## LEGEND

### GENERAL

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

- WORK AREA
- PAVEMENT WEDGING
- REMOVAL

### SIGNALS

- EXISTING PROPOSED TEMPORARY

### PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

### TEMPORARY PAVEMENT MARKING

- PA WHITE EDGELINE (PAINT 4")
- PI YELLOW DOUBLE CENTER (PAINT 4")
- P2 WHITE STOPBAR (PAINT 24")
- P5 WHITE GORELINE (PAINT 12")
- P6 WHITE EDGELINE (PAINT 6")
- P7 YELLOW EDGELINE (PAINT 6")
- P16 YELLOW DOUBLE CENTER (PAINT 6")
- PL WHITE SOLID LANE LINE (PAINT 6")
- PK 3FT-9FT/SP WHITE MINISKIP (PAINT 6")
- QA LEFT TURN ARROW (PAINT)
- QB RIGHT TURN ARROW (PAINT)
- TA WHITE EDGELINE (PERFORMANCE - 4")
- TB YELLOW EDGELINE (PERFORMANCE - 4")
- CA WHITE EDGELINE (PERFORMANCE - 4")
- CB YELLOW EDGELINE (PERFORMANCE - 4")

### 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

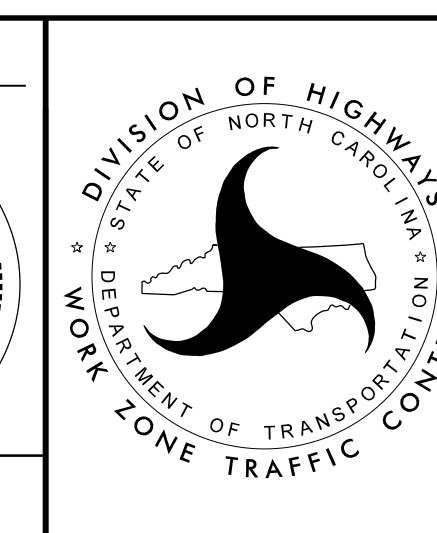
### PAVEMENT MARKING SYMBOLS

- PAVEMENT MARKING SYMBOLS

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**ROADWAY STANDARD  
 DRAWINGS & LEGEND**

PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-1B

## TRAFFIC MANAGEMENT STRATEGY

THIS PROJECT INVOLVES CONSTRUCTION IN TWO SEPARATE SITES.

THE PURPOSE OF THIS PROJECT IN SITE 1 IS TO REPLACE THE EXISTING DUAL STRUCTURES ON US 421 (-L-) OVER NC 24 (SUNSET AVE -Y1-). THIS PROJECT INVOLVES WIDENING AND SIDEWALK CONSTRUCTION ON THE SOUTH SIDE OF US 421. THIS INCLUDES DRAINAGE IMPROVEMENTS THAT WILL TIE TO NEWLY CONSTRUCTED INTERCHANGE IMPROVEMENTS.

THE CONSTRUCTION IN SITE 1 CONTAINS 4 PHASES. EACH PHASE AND EACH STEP IN EACH PHASE MUST BE COMPLETED SEQUENTIALLY AS SHOWN. THE CONTRACTOR CANNOT PROGRESS TO THE NEXT STEP UNTIL CONSTRUCTION IS COMPLETED TO THE SATISFACTION OF THE ENGINEER. CONCURRENT WORK ON MULTIPLE STEPS IS PROHIBITED.

**PHASE 1**  
INSTALL TRAFFIC CONTROL DEVICES TO REDUCE THE TRAVEL LANES FROM 2 TO ONE IN EACH DIRECTION. CONSTRUCT MEDIAN CROSS OVERS AS SHOWN IN THE ROADWAY PLANS.

**PHASE 2**  
SHIFT NORTHBOUND TRAFFIC TO THE SOUTHBOUND TRAVEL LANES. REMOVE THE EXISTING NORTHBOUND BRIDGE. CONSTRUCT THE NEW NORTHBOUND BRIDGE. CONSTRUCT THE NEW PAVEMENT AND WEDGING ON THE NORTHBOUND APPROACHES TO THE NEXT TO FINAL LAYER.

**PHASE 3**  
SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO NEWLY CONSTRUCTED NORTHBOUND BRIDGE. REMOVE THE EXISTING SOUTHBOUND BRIDGE. CONSTRUCT THE NEW SOUTHBOUND BRIDGE. CONSTRUCT THE NEW PAVEMENT AND WEDGING ON THE SOUTHBOUND APPROACHES TO THE NEXT TO FINAL LAYER.

**PHASE 4**  
SHIFT TRAFFIC TO THE FINAL PATTERN. DEMOLISH THE MEDIAN CROSS OVERS. COMPLETE THE WIDENING ON -Y1-. CONSTRUCT THE PAVEMENT TO THE NEXT TO FINAL LAYER.

MILL ANY EXCESS PAVEMENT AS REQUIRED. PLACE FINAL PAVEMENT LAYER AND PAVEMENT MARKINGS AND MARKERS ON -L- NORTHBOUND AND -L- SOUTHBOUND AND -Y1-.

## TRAFFIC MANAGEMENT STRATEGY-CONTINUE

THE PURPOSE OF THE PROJECT IN SITE 2 IS TO BEGIN CONSTRUCTION OF THE US 421 (-L1-) CLINTON BYPASS. THIS PROJECT WILL BEGIN EAST OF THE EXISTING US 421 AND US 701 BUS INTERCHANGE AND EXTEND EAST OF SR 1935 (CECIL-ODIE RD). THIS PROJECT WILL PRIMARILY BE NEW LOCATION AND INVOLVES THE CONSTRUCTION OF A NEW INTERCHANGE WITH US 421 (-L-) AND BYRD YANCEY BASS RD (-Y2-).

THE CONSTRUCTION OF SITE 2 CONTAINS MULTIPLE PHASES AND STEPS. THE CONTRACTOR MAY WORK IN MULTIPLE AREAS CONCURRENTLY WITH APPROVAL FROM THE ENGINEER. THE CONTRACTOR MAY WORK IN NEW LOCATION AREAS AWAY FROM TRAFFIC CONCURRENTLY WITH THE WORK IN SITE 1 AND WORK IN SITE 2 AT ANY TIME. THE CONTRACTOR MUST COORDINATE WITH THE ENGINEER AND UTILITY RELOCATION WORK PRIOR TO COMMENCING ANY WORK ON SITE 2 OUTSIDE OF PHASE 1.

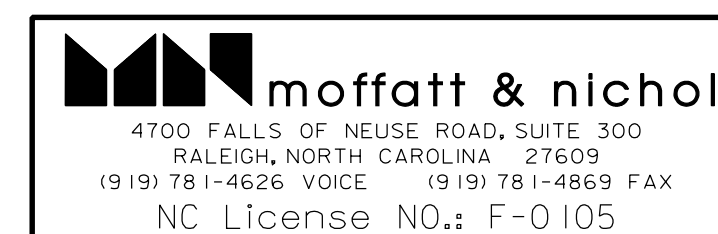
**PHASE 1**  
CONSTRUCT -L1- AWAY FROM TRAFFIC, FROM WEST OF THE PROPOSED INTERCHANGE AT Y2- TO WEST OF SR 1935 (CECIL-ODIE RD). CONSTRUCT -Y2RPA-, -Y2LPA-, PART OF -Y2RPC-, AND -Y2RPD-.

**PHASE 2**  
INSTALL OFFSITE DETOUR FOR SR 1934 (BYRD YANCEY BASS RD) AND SR 1395 (CECIL ODIE RD). THE OFFSITE DETOUR ROUTE IS SR 1932 - SR 1226 - US BUS 701 AND US 421. CONSTRUCT -Y2DET- AS SHOWN IN THE ROADWAY PLANS. CONSTRUCT ALL OF -SR1-. CONSTRUCT -L1- from 105+00 to 120+00 AND CONSTRUCT -Y6A-, -Y6B- AND -SR3-. CONSTRUCT NEW PAVEMENT AND WEDGING TO CONNECT THE NORTH END OF NEWLY CONSTRUCTED -Y2- INTERCHANGE TO EXISTING -Y2- AND CONSTRUCT NEW -Y4- CONNECTION TO -Y2-.

**PHASE 3**  
INSTALL NEW PAVEMENT AND WEDGING ON NORTHBOUND -Y2- AS SHOWN IN THE TMP PLANS AND CONNECT THE SOUTH END OF THE NEWLY CONSTRUCTED -Y2- INTERCHANGE TO EXISTING US 421.

**PHASE 4**  
INSTALL OFFSITE DETOUR FOR SR 1116 (PEARSON RD). THE OFFSITE DETOUR ROUTE IS SR 1146 - US BUS 701 - US 421. CONSTRUCT NEW MEDIAN CROSSOVER ON -L1- AS SHOWN ON THE ROADWAY PLANS AND PLACE THE TEMPORARY PAVEMENT ON EXISTING US 421 AS SHOWN ON THE TMP PLANS. SHIFT TRAFFIC INTO TWO LANE TWO WAY PATTERN. CONSTRUCT NEW PAVEMENT AND WEDGING -L1- NORTHBOUND TO CONNECT EXISTING US 421 TO THE NEWLY CONSTRUCTED INTERCHANGE WITH -Y2-. CONSTRUCT THE T-TURNAROUND ON -Y4-. SHIFT NORTHBOUND TRAFFIC ON US 421 TO THE NEWLY CONSTRUCTED INTERCHANGE. MAINTAIN SOUTHBOUND TRAFFIC IN A SINGLE LANE PATTERN ON EXISTING US 421. CONSTRUCT THE SOUTHBOUND LANES ON -L1- AND THE REMAINING PORTION OF RAMP C CONNECTING TO THE NEWLY CONSTRUCTED INTERCHANGE AT -Y2-. SHIFT SOUTHBOUND TRAFFIC TO THE NEWLY CONSTRUCTED INTERCHANGE. MAINTAIN TRAFFIC IN A 2 LANE 2 WAY PATTERN ON -Y2-. CONSTRUCT THE REMAINING PORTION OF -Y2-. CONSTRUCT ALL OF -SR2- AND Y3-. FINISH FINAL SURFACE COURSE AND FINAL PAVEMENT MARKINGS. REMOVE OFFSITE DETOURS AND PLACE TRAFFIC IN FINAL PATTERNS.

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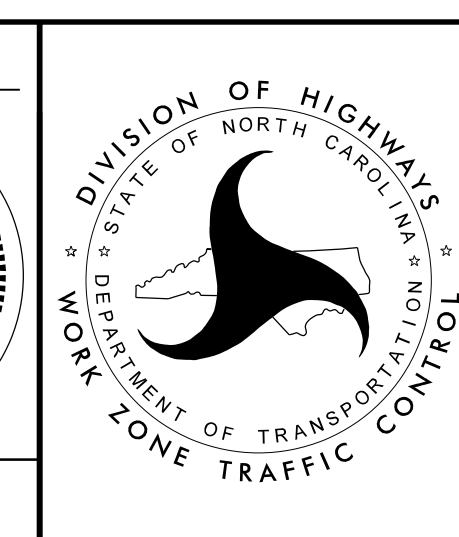


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DATE: 11/5/2019

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TRAFFIC MANAGEMENT STRATEGY

# 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 UNDESIRE 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
SITE 1	US 421/701 (-L-)	MONDAY THRU FRIDAY
SITE 2	NC 24 (-Y1-)	7:00 A.M. - 9:00 A.M.
	NC 24 (-L1-)	4:00 P.M. - 6:00 P.M.

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

ROAD NAME
US 421/701 (-L-)
NC 24 (-Y1)
NC 24 (-L1-)

**HOLIDAY**

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

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
US 421/701 (-L-)	MONDAY THRU FRIDAY	30 MINUTES FOR GIRDER
NC 24 (-Y1-)	7:00 A.M. - 9:00 A.M.	PLACEMENT & REMOVAL
	4:00 P.M. - 6:00 P.M.	

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

- D) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

**PAVEMENT EDGE DROP OFF REQUIREMENTS**

- I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

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

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

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

- J) 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' IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

**TRAFFIC PATTERN ALTERATIONS**

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

**SIGNING**

- L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.  
  
PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.
- N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.  
  
COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.
- O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 1000 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

**TRAFFIC CONTROL DEVICES**

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

**PAVEMENT MARKINGS AND MARKERS**

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

ROAD NAME	MARKING	MARKER
US 421/701 (-L-)	PERFORMANCE PAINT	NONE
NC 24/SUNSET AVE (-Y1-)	PERFORMANCE PAINT	NONE
NC 24 (-L1-)	PERFORMANCE PAINT	NONE
SR 1934 (-Y2-)	PERFORMANCE PAINT	NONE
	COLD APPLIED PLASTIC (TYPE IV)	
SR 1116 (-Y3-)	PAINT	NONE
SR 1934 (-Y4-)	PAINT	NONE
SR 1935 (-Y6A-)	PAINT	NONE
SR 1935 (-Y6B-)	PAINT	NONE
-SR1-	PAINT	NONE
-SR2-	PAINT	NONE
-SR2-	PAINT	NONE
-Y1RPA-	PAINT	NONE
-Y1RPB-	PAINT	NONE
-Y2LPA-	PAINT	NONE

-Y2RPA-	PAINT	NONE
-Y2RPC-	PAINT	NONE
-Y2RPD-	PAINT	NONE

- T) 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.

- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

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

- W) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD, OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

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

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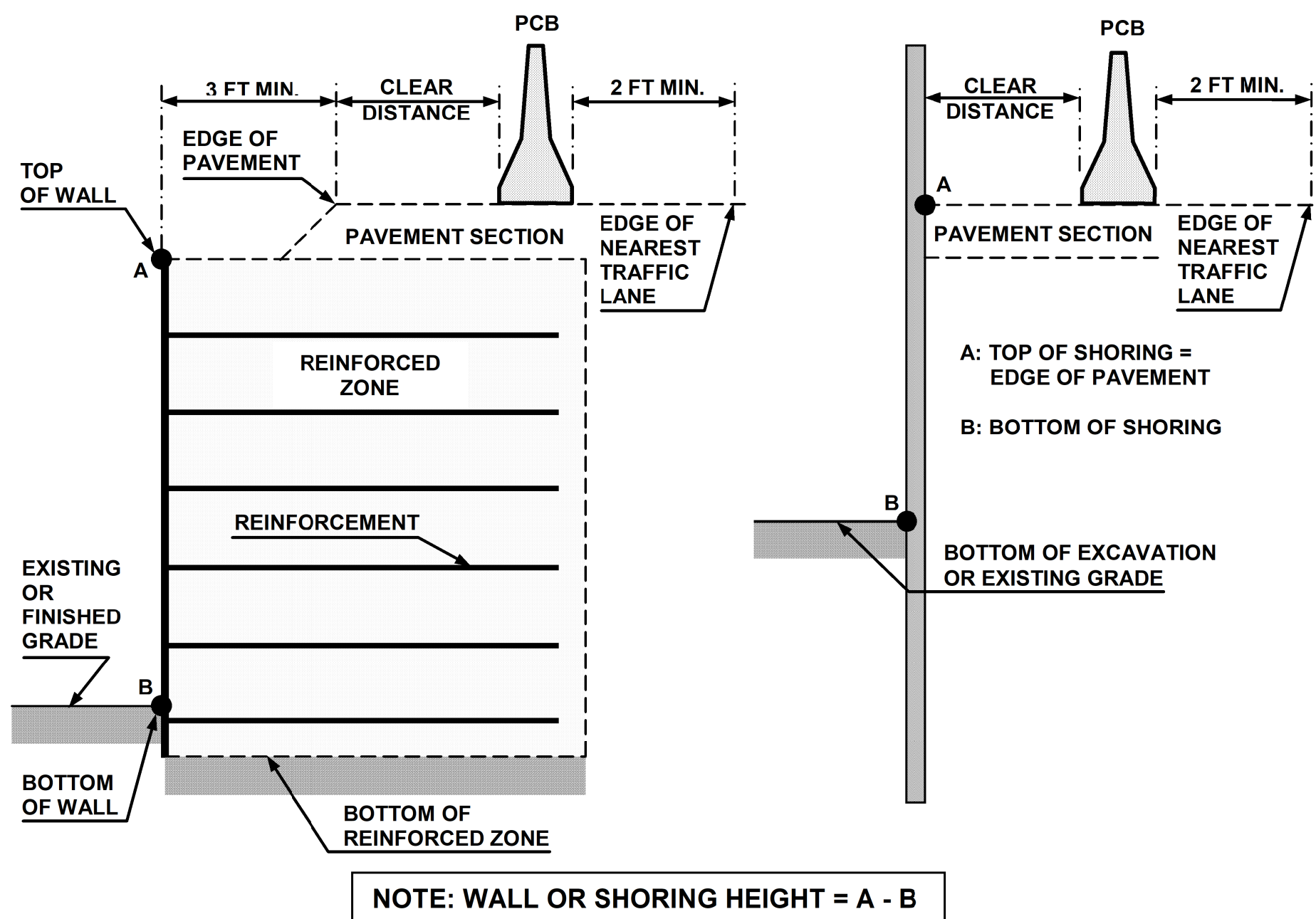
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**APPROVED:** *Timothy R. Reid*  
DATE: 11/8/2019  
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DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**GENERAL NOTES  
AND  
LOCAL NOTES**



**FIGURE A**

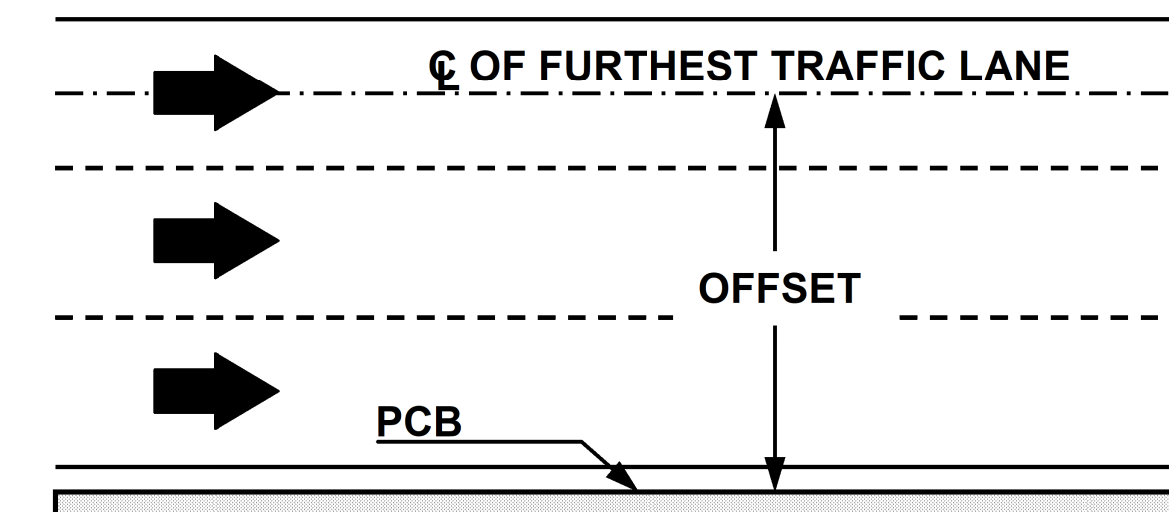
**NOTES**

- 1- REFER TO THE TRAFFIC CONTROL PLANS FOR TEMPORARY SHORING LOCATIONS AND NOTES.
- 2- REFER TO THE "TEMPORARY SHORING" PROJECT SPECIAL PROVISION FOR INFORMATION ABOUT TEMPORARY SHORING AND PORTABLE CONCRETE BARRIER (PCB).
- 3- 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).
- 4- BASED ON THE CLEAR DISTANCE, OFFSET, DESIGN SPEED AND PAVEMENT TYPE, CHOOSE AN UNANCHORED OR ANCHORED PCB FROM THE TABLE SHOWN IN FIGURE B. CLEAR DISTANCE IS DEFINED AS SHOWN IN FIGURE A AND OFFSET IS DEFINED AS SHOWN IN FIGURE B.
- 5- AT THE CONTRACTOR'S OPTION OR IF THE MINIMUM REQUIRED CLEAR DISTANCE IS NOT AVAILABLE, SET PCB NEXT TO AND UP AGAINST THE TRAFFIC SIDE OF THE TEMPORARY SHORING EXCEPT FOR BARRIER ABOVE TEMPORARY WALLS. PCB WITH THE MINIMUM REQUIRED CLEAR DISTANCE IS REQUIRED ABOVE TEMPORARY WALLS.
- 6- USE NCDOT PORTABLE CONCRETE BARRIER (PCB) IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1170.01 AND SECTION 1170 OF THE STANDARD SPECIFICATIONS.
- 7- PCB REQUIREMENTS FOR TEMPORARY WALLS APPLY TO TEMPORARY MECHANICALLY STABILIZED EARTH (MSE) WALLS AND TEMPORARY SOIL NAIL WALLS.
- 8- 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.
- 9- 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.
- 10- 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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**DIVISION OF HIGHWAYS**  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

**PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS**

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## SHORING NOTES

### Shoring Location No. 1A

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- 32+46±, 0 FT, TO STATION -L- 33+10±, 0 FT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( = 120 LB/CF
- FRICTION ANGLE ( = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 141.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 32+46±, 0 FT, TO STATION -L- 33+10±, 0 FT.

AT THE CONTRACTOR'S OPTION AND WHEN APPLICABLE, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 32+46±, 0 FT, TO STATION -L- 33+10±, 0 FT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

### Shoring Location No. 1B

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- 33+13.67±, 61.71 FT LEFT, TO STATION -L- 33+10.37±, 0 FT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( = 120 LB/CF
- FRICTION ANGLE ( = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 141.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 33+13.67±, 61.71 FT LEFT, TO STATION -L- 33+10.37±, 0 FT.

AT THE CONTRACTOR'S OPTION AND WHEN APPLICABLE, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 33+13.67±, 61.71 FT LEFT, TO STATION -L- 33+10.37±, 0 FT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

### Shoring Location No. 1C

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- 33+10.37±, 0 FT, TO STATION -L- 33+07.02±, 66.36 FT RIGHT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( = 120 LB/CF
- FRICTION ANGLE ( = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 141.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 33+10.37±, 0 FT, TO STATION -L- 33+07.02±, 66.36 FT RIGHT.

AT THE CONTRACTOR'S OPTION AND WHEN APPLICABLE, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM -L- 33+10.37±, 0 FT, TO STATION -L- 33+07.02±, 66.36 FT RIGHT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

### 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 -L- 33+91±, 0 FT, TO STATION -L- 34+63±, 0 FT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

- UNIT WEIGHT ( = 120 LB/CF
- FRICTION ANGLE ( = 30 DEGREES
- COHESION (c) = 0 LB/SF
- GROUNDWATER ELEVATION = 141.0 FT ±

DO NOT USE A TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION -L- 33+91±, 0 FT, TO STATION -L- 34+63±, 0 FT.

AT THE CONTRACTOR'S OPTION AND WHEN APPLICABLE, USE STANDARD TEMPORARY SHORING FOR TEMPORARY SHORING FROM STATION -L- 33+91±, 0 FT, TO STATION -L- 34+63±, 0 FT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

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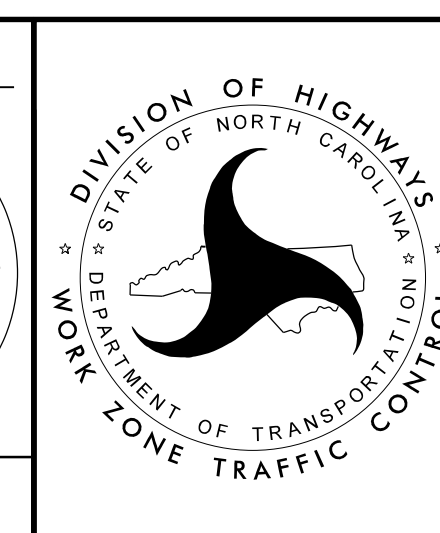


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TEMPORARY  
SHORING  
NOTES

THIS PROJECT IS DIVIDED INTO THE CONSTRUCTION OF TWO SITES AS FOLLOWS:

SITE 1

STA.6+67 +/- -L- TO STA.50+00 +/- -L-  
 STA.19+83 +/- -Y1- TO STA.28+01 +/- -Y1-

SITE 2

STA.36+00 +/- -L1- TO STA.120+00 +/- -L1-  
 STA.12+50 +/- -Y2- TO STA.49+00 +/- -Y2-  
 STA.11+50 +/- -Y3- TO STA.17+01 +/- -Y3-  
 STA.10+05 +/- -Y4- TO STA.15+90 +/- -Y4-  
 STA.10+12 +/- -SR1- TO STA.15+72 +/- -SR1-  
 STA.13+00 +/- -SR2- TO STA.48+45 +/- -SR2-  
 STA.10+00 +/- -SR3- TO STA.17+66 +/- -SR3-  
 STA.10+00 +/- -Y2LPA- TO STA.21+00 +/- -Y2LPA-  
 STA.10+00 +/- -Y2RPA- TO STA.28+33 +/- -Y2RPA-  
 STA.10+00 +/- -Y2RPC- TO STA.30+22 +/- -Y2RPC-  
 STA.10+00 +/- -Y2RPD- TO STA.29+80 +/- -Y2RPD-  
 STA.11+50 +/- -Y6A- TO STA.16+11 +/- -Y6A-  
 STA.15+00 +/- -Y6B- TO STA.22+64 +/- -Y6B-  
 STA.10+00 +/- -DR2- TO STA.11+77 +/- -DR2-

R2303E Delay of Entry

NOTICE:

CONTRACTOR SHOULD ADHERE TO A 240 DAY DELAY OF ENTRY FOR ANY WORK ACTIVITIES OCCURING ALONG THE FOLLOWING ROADWAYS:

-L1- 36+00 TO 63+50  
 -SR1-  
 -SR2- 13+00 TO 35+00

THIS 240 DAY DELAY OF ENTRY BEGINS WHEN THE PROJECT IS LET. EXCEPTIONS TO THIS RESTRICTION ARE UTILITY CONSTRUCTION (WATER) ITEMS NOT IN CONFLICT WITH EXISTING UTILITIES TO BE RELOCATED BY OTHERS.

CONTRACTOR SHOULD ADHERE TO A 425 DAY DELAY OF ENTRY FOR ANY WORK OCCURING ALONG THE FOLLOWING ROADWAY:

-L1- 105+00 TO 120+00  
 -Y6A-  
 -Y6B-  
 -SR3-  
 -Y2- 10+00 TO 21+00  
 -Y2- 41+00 TO 49+00  
 -Y3-  
 -Y4- 10+00 TO -Y2-  
 -SR2- 35+00 TO -Y2-

THIS 425 DAY DELAY OF ENTRY BEGINS WHEN THE PROJECT IS LET. EXCEPTIONS TO THIS RESTRICTION ARE UTILITY CONSTRUCTION (WATER) ITEMS NOT IN CONFLICT WITH EXISTING UTILITIES TO BE RELOCATED BY OTHERS.

# TRAFFIC CONTROL PHASING

CONSTRUCTION OF PROPOSED SITE 1

PHASE I

STEP 1

USING RSD NO. 1101.01 (1 AND 2 OF 3) INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- (US 421) AND -Y1- (SUNSET AVE)

STEP 2

USING RSD 1101.02 (4 OF 14) PLACE DRUMS TO CLOSE THE INSIDE LANE OF -L- NORTHBOUND AND SOUTHBOUND TO TRAFFIC. WHILE MAINTAINING TRAFFIC ON EXISTING -L- CONSTRUCT THE TEMPORARY MEDIAN CROSS OVERS FROM -L- STA 12+32 +/- TO -L- STA 25+00 +/- AND FROM -L- STA 37+50 +/- TO -L- STA 50+96 +/- . MATCH ELEVATIONS TO PROVIDE A SMOOTH DRIVING SURFACE BETWEEN EXISTING AND NEW PAVEMENT. MILL AND RESURFACE EXISTING SHOULDERS ON -L- TO REMOVE RUMBLE STRIPS.

PHASE II

STEP 1

USING RSD 1101.02 (8, 9 AND 10 OF 14) AND 1101.03 (4 OF 9) PLACE WARNING SIGNS AND TRAFFIC CONTROL DEVICES AND SHIFT NORTHBOUND TRAFFIC TO THE SOUTHBOUND TRAVEL LANE UTILIZING THE MEDIAN CROSS OVER. PLACE -L- TRAFFIC INTO A TWO LANE TWO WAY TRAFFIC PATTERN. USING RSD 1101.03 (5 OF 9) PLACE TRAFFIC CONTROL DEVICES ADJACENT TO EXISTING RAMP A AND RAMP B, MAINTAINING EXISTING TRAFFIC PATTERNS. PLACE TEMPORARY SHORING IN THE MEDIAN FROM -L- STA 32+46 +/- TO -L- STA 33+14 +/- AND FROM -L- STA 33+91 +/- TO -L- STA 34+63 +/-

STEP 2

UTILIZING RSD 1101.02 (3 OF 14) PLACE TRAFFIC CONTROL DEVICES ON -Y1- AND DEMOLISH THE EXISTING NORTHBOUND BRIDGE

SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352). SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

STEP 3

UTILIZING RSD 1101.02 (3 OF 14) MAINTAIN TRAFFIC CONTROL DEVICES ON -Y1- AND CONSTRUCT NEW NORTHBOUND BRIDGE.

SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352). SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

STEP 4

CONSTRUCT NEW PAVEMENT UP TO FINAL PAVEMENT LAYER FROM -L- 26+24 +/- TO -L-39+10 +/- .

SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352). SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

PHASE III

STEP 1

USING RSD 1101.02 (4 OF 9) RESET ADVANCE WARNING SIGNS AND LANE CLOSURE ON -L- SOUTHBOUND. USING RSD 1101.03 (4 OF 9) PLACE WARNING SIGNS AND TRAFFIC CONTROL DEVICES AND SHIFT SOUTHBOUND TRAFFIC TO THE NORTHBOUND TRAVEL LANE UTILIZING THE MEDIAN CROSS OVER. PLACE -L- TRAFFIC INTO A TWO LANE TWO WAY TRAFFIC PATTERN. USING RSD 1101.03 (5 OF 9) PLACE TRAFFIC CONTROL DEVICES ADJACENT TO EXISTING RAMP C AND RAMP D, MAINTAINING EXISTING TRAFFIC PATTERNS.

SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS. BAG INSIDE LEFT TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352) SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION

STEP 2

UTILIZING RSD 1101.02 (3 OF 14) MAINTAIN TRAFFIC CONTROL DEVICES ON -Y1- AND DEMOLISH THE EXISTING SOUTHBOUND BRIDGE

STEP 3

UTILIZING RSD 1101.02 (3 OF 14) MAINTAIN TRAFFIC CONTROL DEVICES ON -Y1- AND CONSTRUCT NEW SOUTHBOUND BRIDGE.

STEP 4

CONSTRUCT NEW PAVEMENT UP TO FINAL PAVEMENT LAYER FROM -L- 26+73 +/- TO -L-39+17 +/- . PLACE PERMANENT PAVEMENT MARKINGS AND PAVEMENT MARKERS.

PHASE IV

STEP 1

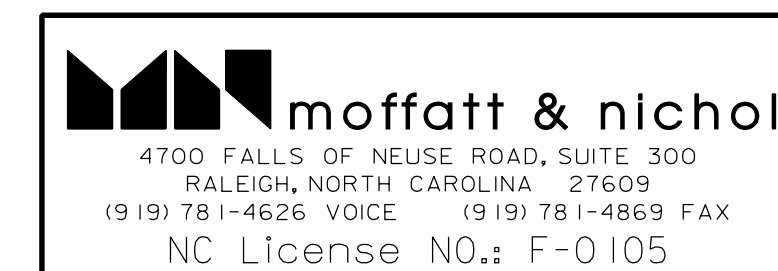
USING RSD 1101.02 (4 OF 14) AND LAW ENFORCEMENT AS REQUIRED PLACE DRUMS TO CLOSE THE INSIDE LANE OF -L- NORTHBOUND AND SOUTHBOUND TO TRAFFIC. WHILE MAINTAINING TRAFFIC ON -L- , REMOVE THE MEDIAN CROSS OVERS. PLACE THE FINAL PAVEMENT LAYER ON -L- AND PLACE FINAL PAVEMENT MARKINGS AND MARKERS. USING RSD 1101.02 (6 OF 14) COMPLETE WIDENING ON -Y1- . PLACE PAVEMENT INCLUDING FINAL COURSE, PAVEMENT MARKINGS, AND PAVEMENT MARKERS.

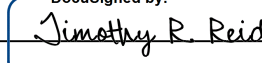
SHIFT SIGNAL HEADS TO FINAL LOCATION

STEP 2

REMOVE ALL REMAINING TRAFFIC CONTROL DEVICES, PLACE TRAFFIC INTO FINAL TRAFFIC PATTERN AND OPEN ALL LANES TO TRAFFIC.

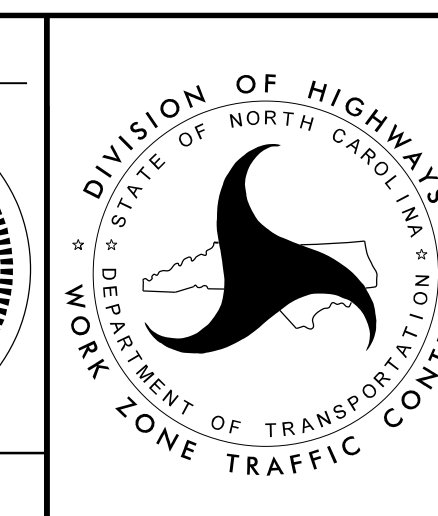
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**TEMPORARY  
TRAFFIC CONTROL  
PHASING**



CONSTRUCTION OF PROPOSED SITE 2

# TRAFFIC CONTROL PHASING

## PHASE I

### STEP 1

CONSTRUCT THE FOLLOWING AWAY FROM TRAFFIC INCLUDING THE FINAL PAVEMENT LAYER, FINAL PAVEMENT MARKINGS AND MARKERS.

CONSTRUCT -L1- STA 63+50 +/- TO -L1- STA 105+00 +/- .  
 CONSTRUCT -Y2- STA 23+00 +/- TO -Y2- STA 41+00 +/-  
 CONSTRUCT -Y2RPA-, -Y2LPA-, -Y2RPD-  
 CONSTRUCT -Y2RPC- STA 20+00 +/- TO -Y2RPC- 30+02 +/-

## PHASE II

### STEP 1

INSTALL OFFSITE DETOUR SIGNING AND BARRICADES FOR BYRD YANCEY BASS RD (-Y2-) AND CECIL ODIE RD (-Y6A- AND Y6B-). CLOSE BOTH ROADS TO TRAFFIC. USING RSD NO. 1101.01 (1 AND 2 OF 3) INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L1- (US 421).

### STEP 2

USING THE -Y2- OFFSITE DETOUR CONSTRUCT -Y2- FROM STA 12+50 +/- TO -Y2- STA 23+00 +/- CONNECTING THE INTERCHANGE TO EXISTING BYRD-YANCEY BASS RD. INSTALL NEW PAVEMENT UP TO FINAL PAVEMENT LAYER. USE PAVEMENT WEDGING TO MAINTAIN ACCESS TO EXISTING BYRD-YANCEY BASS RD CONNECTOR (-Y4-) AND EXISTING DRIVEWAYS.

### STEP 3

CONSTRUCT BYRD-YANCEY BASS RD CONNECTOR (-Y4-). INSTALL NEW PAVEMENT UP TO FINAL PAVEMENT LAYER.

### STEP 4

INSTALL FINAL PAVEMENT LAYER ON COMPLETED -Y2- AND -Y4-. INSTALL FINAL PAVEMENT MARKINGS AND MARKERS. MAINTAIN OFFSITE DETOUR, OPENING NEWLY CONSTRUCTED -Y2- AND -Y4- FOR LOCAL TRAFFIC ONLY.

### STEP 5

CONSTRUCT -Y2DET- USING RSD 1101.02 (10 OF 14)

### STEP 6

USING RSD NO. 1101.02 (1 OF 14) CONSTRUCT -SR1- AND -DR1- MAINTAIN ACCESS TO EXISTING DRIVES DURING CONSTRUCTION.

### STEP 7

USING THE -Y6A- AND -Y6B- OFFSITE DETOUR CONSTRUCT -L- FROM STA 105+00 TO 120+00. CONSTRUCT -Y6A-, -Y6B- AND SR3 INCLUDING FINAL PAVEMENT LAYER AND MARKINGS. REMOVE -Y6A- AND -Y6B- OFFSITE DETOUR AND OPEN TO TRAFFIC.

### STEP 8

REMOVE DETOUR SIGNAGE FOR -Y6A- AND -Y6B- AND OPEN TO TRAFFIC.

## PHASE III

### STEP 1

CONSTRUCT AS MUCH AS POSSIBLE OF -Y2- STA 41+00 +/- TO -Y2- STA 49+00 +/- WHILE MAINTAINING TWO LANE TWO WAY OPERATION ON EXISTING US 421 AND -Y2DET-. USING RSD 1101.02 (1 OF 14) CONSTRUCT -Y2- STA 41+00 +/- TO 49+00 +/- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PROVIDE A SMOOTH SURFACE BETWEEN THE EXISTING AND NEW PAVEMENT. MAINTAIN THE EXISTING TRAFFIC PATTERN ON US 421 AND -Y2DET-.

## PHASE IV

### STEP 1

USING RSD 1101.02 (4 OF 14) PLACE DRUMS TO CLOSE THE INSIDE LANE OF -L1- NORTHBOUND AND SOUTHBOUND TO TRAFFIC. WHILE MAINTAINING TRAFFIC ON EXISTING -L1-, CONSTRUCT THE TEMPORARY MEDIAN CROSS OVERS FROM -L1- STA 40+37 +/- TO -L1- STA 48+08 +/- . MATCH ELEVATIONS TO PROVIDE A SMOOTH DRIVING SURFACE BETWEEN EXISTING AND NEW PAVEMENT.

CONSTRUCT TEMPORARY PAVEMENT FROM -SR2- STA 30+60 +/- TO -SR2- STA 38+00 +/- .

### STEP 2

USING RSD 1101.02 (10 OF 14) AND RSD 1101.03 (6 OF 9) AND USING THE NEW MEDIAN CROSS OVER SHIFT NORTHBOUND -L1- TRAFFIC TO SOUTHBOUND LANE, PLACING TRAFFIC IN A TWO LANE TWO WAY PATTERN. CONSTRUCT THE NORTH BOUND LANES ON -L1- FROM -L1- STA 36+00 +/- TO -L1- STA 63+50 +/- , CONNECTING THE EXISTING NORTHBOUND US 421 LANES TO THE NEW INTERCHANGE. PLACE NORTH BOUND TRAFFIC IN FINAL TRAFFIC PATTERN OPENING -Y2LPA- AND -L1- NORTHBOUND TO TRAFFIC.

### STEP 3

USING RSD 1101.02 (4 OF 14) PLACE DRUMS AND MAINTAIN ONE LANE SOUTHBOUND TRAFFIC. CONSTRUCT -L1- SOUTHBOUND FROM -L1- STA 36+00 +/- TO STA 63+50 +/- . CONSTRUCT -RP2C- FROM -RP2C- STA 10+00 +/- TO -RP2C- STA 20+00 +/- . CONSTRUCT PAVEMENT INCLUDING FINAL PAVEMENT LAYER, FINAL PAVEMENT MARKINGS, AND MARKERS. SHIFT SOUTHBOUND TRAFFIC TO -RP2C- AND UTILIZE NEWLY CONSTRUCTED -Y2- TO MAINTAIN A TWO LANE TWO WAY PATTERN.

### STEP 4

INSTALL OFFSITE DETOUR SIGNING AND BARRICADES FOR PEARSON RD (-Y3-). CLOSE PEARSON RD TO TRAFFIC.

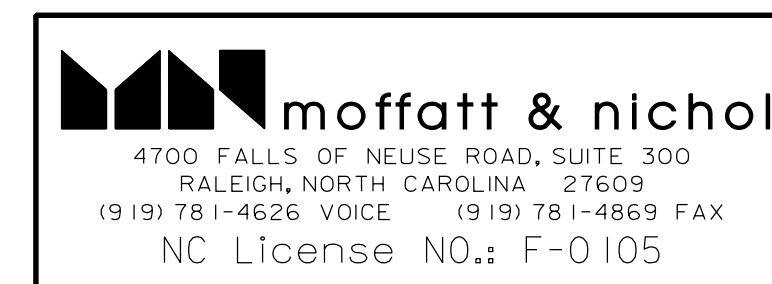
### STEP 5

USING -Y3- OFFSITE DETOUR CONSTRUCT -SR2- AND -Y3- INCLUDING FINAL PAVEMENT LAYER AND FINAL PAVEMENT MARKINGS. CONSTRUCT REMAINING PORTION OF -Y2-. PLACE FINAL PAVEMENT LAYER ON -Y2- STA 41+00 +/- TO 49+00 +/- INCLUDING FINAL PAVEMENT MARKINGS.

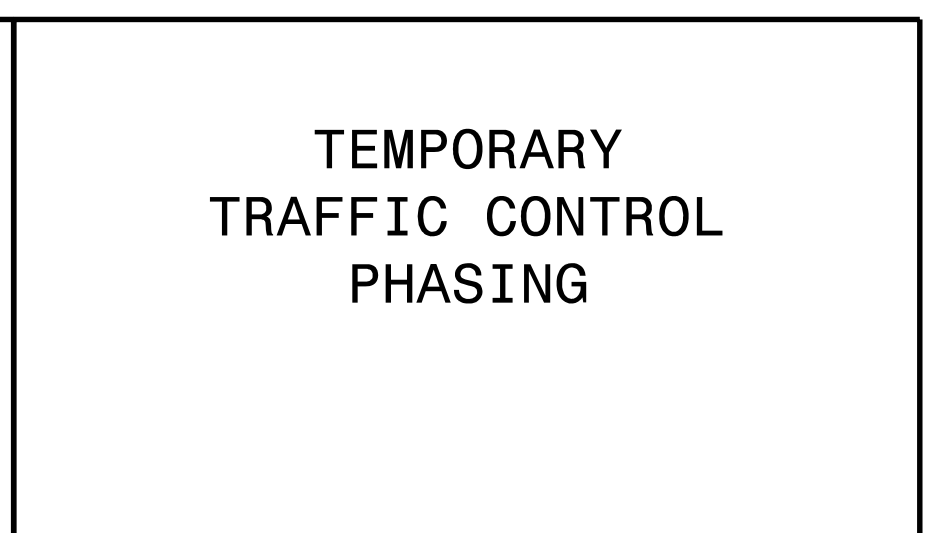
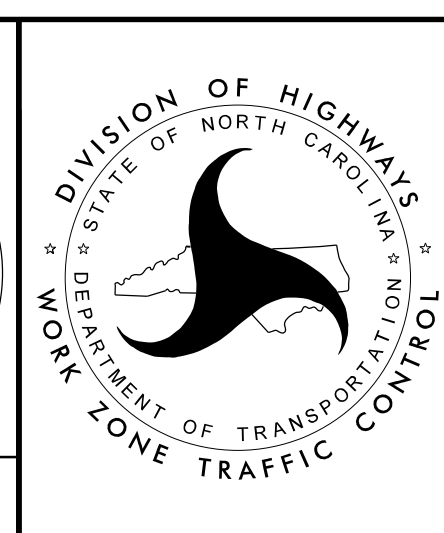
### STEP 6

REMOVE ALL TRAFFIC CONTROL DEVICES. REMOVE ALL REMAINING OFFSITE DETOURS. OPEN ALL TRAVEL LANES AND PLACE TRAFFIC IN FINAL PATTERN.

11/5/2019 0:29:48 AM \\RA8522-07\CADD\NR2303E\TrafficControl\TCP\vr2303e\_fc\_tmp\_03a.dgn gmedlin



APPROVED: Timothy R. Reid  
 DATE: 11/5/2019  
 SEAL  
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



**TEMPORARY TRAFFIC CONTROL PHASING**

<p><b>SIGN NUMBER:</b> CECIL ODIE <b>TYPE:</b> STATIONARY <b>QUANTITY:</b> SEE PLANS</p> <p><b>SIGN WIDTH:</b> 4'-0" <b>HEIGHT:</b> 1'-6" <b>TOTAL AREA:</b> 6.0 Sq.Ft.</p> <p><b>BORDER TYPE:</b> INSET <b>RECESS:</b> 1.00" <b>WIDTH:</b> 1.00" <b>RADII:</b> 1.5"</p> <p><b>NO. Z BARS:</b> <b>LENGTH:</b></p>	<p><b>BACKG COLOR:</b> Fluorescent Orange <b>COPY COLOR:</b> Black</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p><b>MAT'L:</b> 0.080" (2.0 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																				<p><b>DESIGN BY:</b> ZL <b>PROJECT ID:</b> R2303E</p> <p><b>CHECKED BY:</b> _____ <b>LOCATION:</b> _____</p> <p style="text-align: right;"><b>Sep 03, 2019</b> <b>DIV: 03</b></p>	
SYMBOL	X	Y	WID	HT																																							

Spacing Factor is 1 unless specified otherwise

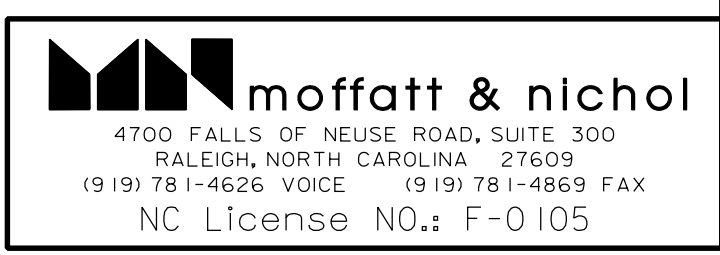
**LETTER POSITIONS**

**Letter spacings are to start of next letter**

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		<b>B</b>	<b>Y</b>	<b>R</b>	<b>D</b>		<b>Y</b>	<b>A</b>	<b>N</b>	<b>C</b>	<b>E</b>	<b>Y</b>		<b>B</b>	<b>A</b>	<b>S</b>	<b>S</b>		<b>R</b>	<b>D</b>				C 2000/4 42
	3.0	2.3	2.6	2.3	2.2	1.5	2.6	2.6	2.3	2.3	2.1	2.6	1.5	2.3	2.6	2.3	2.2	1.5	2.3	2.2	3.0			

FILENAME: R2303E\_tc\_tmp\_3b NORTH CAROLINA D.O.T. SIGN DETAIL

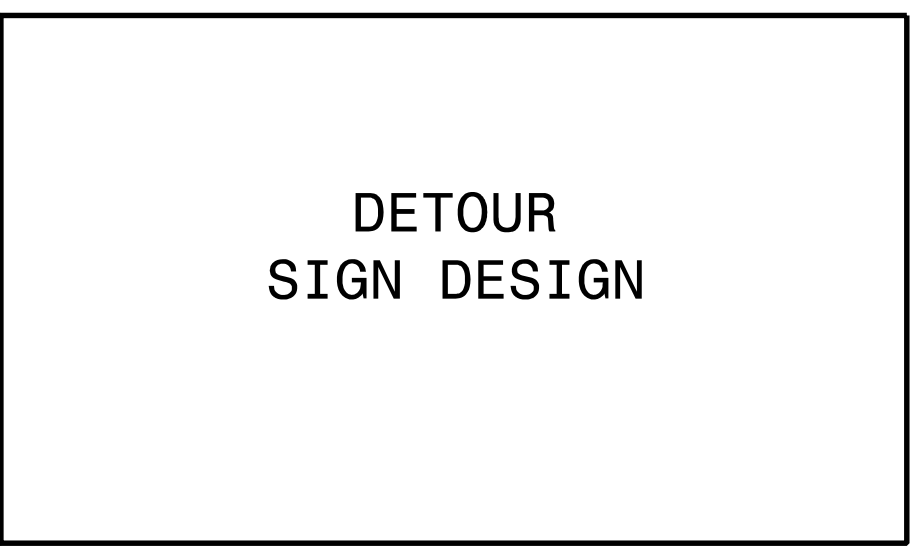
11/5/2019 0:29:18 AM R:\8522-07\CADD\NR2303E\TrafficControl\CP\2303e\_tc\_tmp\_03b.dgn gmedlin



APPROVED: Timothy R. Reid  
DATE: 11/5/2019

SEAL

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**DETOUR  
SIGN DESIGN**

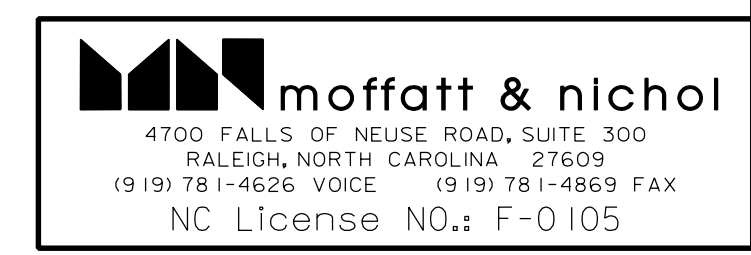
<p><b>SIGN NUMBER:</b> Pearson  <b>TYPE:</b> STATIONARY  <b>QUANTITY:</b> SEE PLANS</p> <p><b>SIGN WIDTH:</b> 4'-0"  <b>HEIGHT:</b> 1'-6"  <b>TOTAL AREA:</b> 6.0 Sq.Ft.</p> <p><b>BORDER TYPE:</b> INSET  <b>RECESS:</b> 1.00"  <b>WIDTH:</b> 1.00"  <b>RADII:</b> 1.5"</p> <p><b>NO. Z BARS:</b>  <b>LENGTH:</b></p>	<p><b>BACKG COLOR:</b> Fluorescent Orange  <b>COPY COLOR:</b> Black</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> <p><b>MAT'L:</b> 0.080" (2.0 mm) ALUMINUM</p>	SYMBOL	X	Y	WID	HT																																														<p><b>DESIGN BY:</b> ZL  <b>PROJECT ID:</b> R2303E</p> <p><b>CHECKED BY:</b>  <b>LOCATION:</b></p> <p style="text-align: right;"><b>Sep 10, 2019</b>  <b>DIV: 03</b></p> <div style="text-align: center;"> </div> <p style="text-align: right;">Spacing Factor is 1 unless specified otherwise</p>
SYMBOL	X	Y	WID	HT																																																
<p><b>USE NOTES: 1,2</b></p> <p>1. Legend and border shall be direct applied black non-reflective sheeting.                  2. Background shall be NC GRADE B fluorescent orange retroreflective sheeting.</p>																																																				

**LETTER POSITIONS**

Letter spacings are to start of next letter												Series/Size Text Length	
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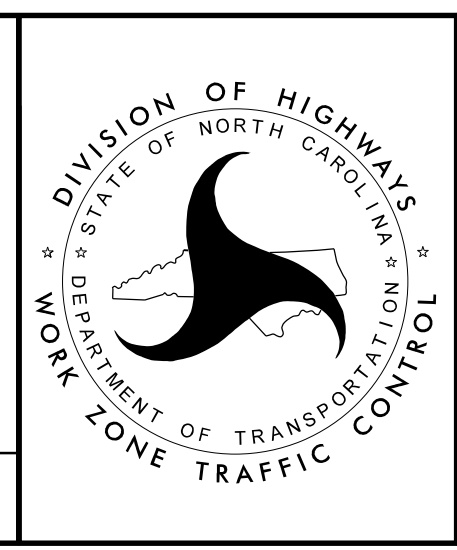
11/5/2019  
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 gmedlin



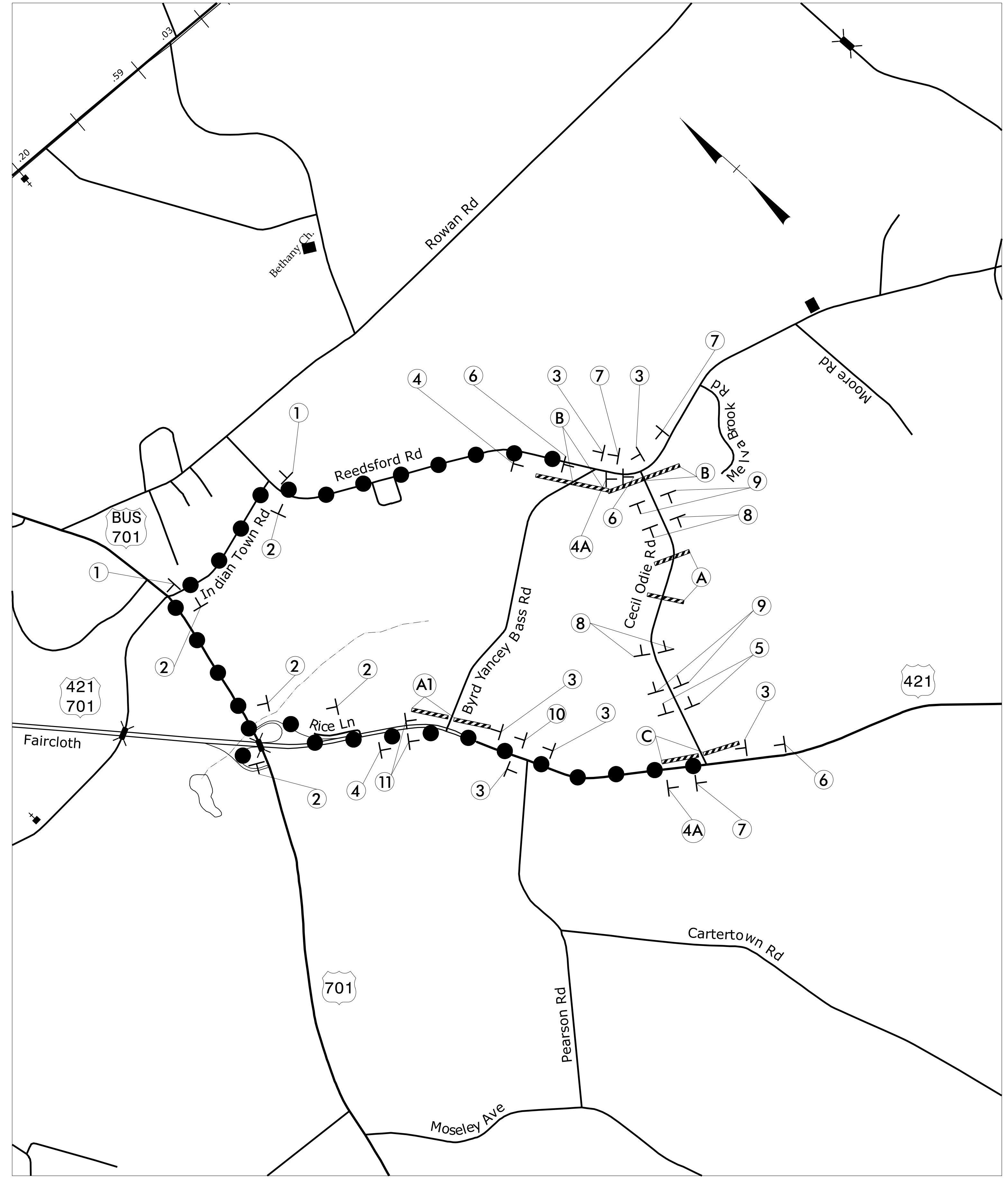
APPROVED:   
 DATE: 11/5/2019

SEAL

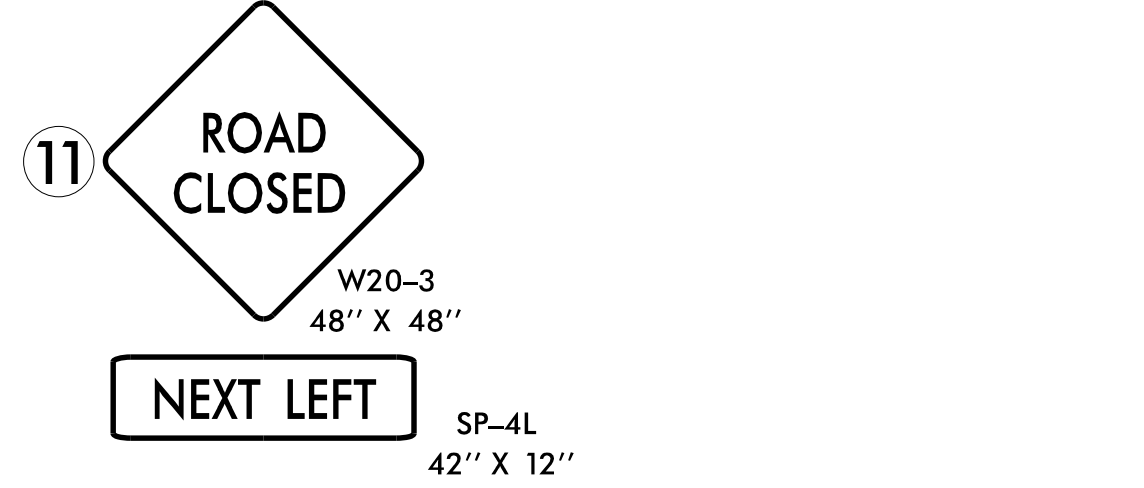
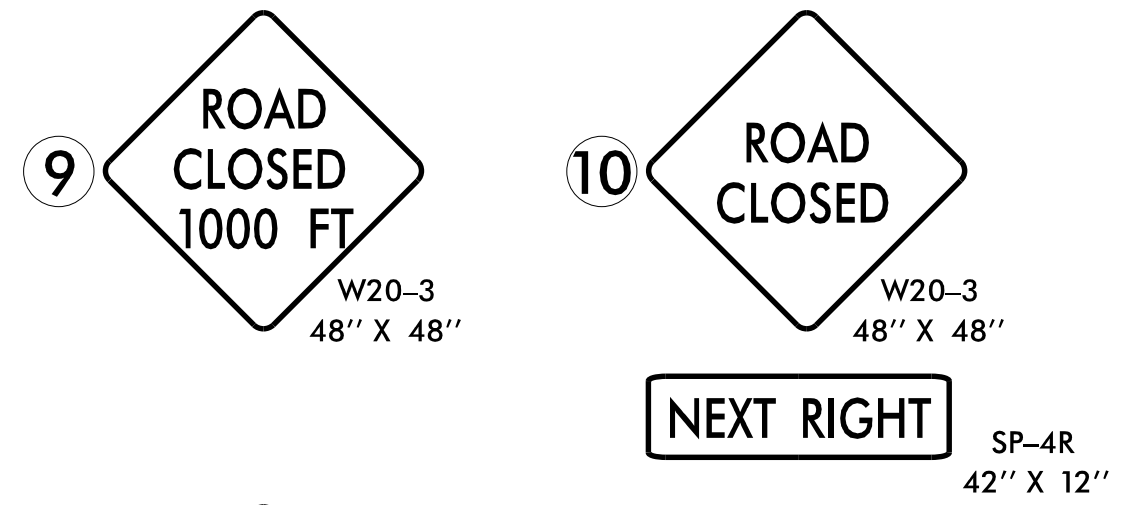
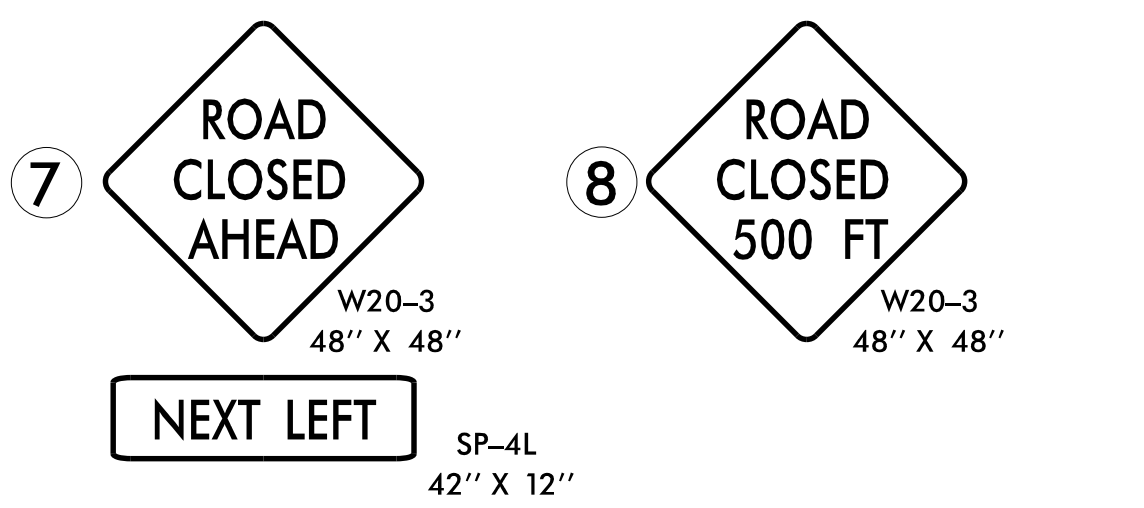
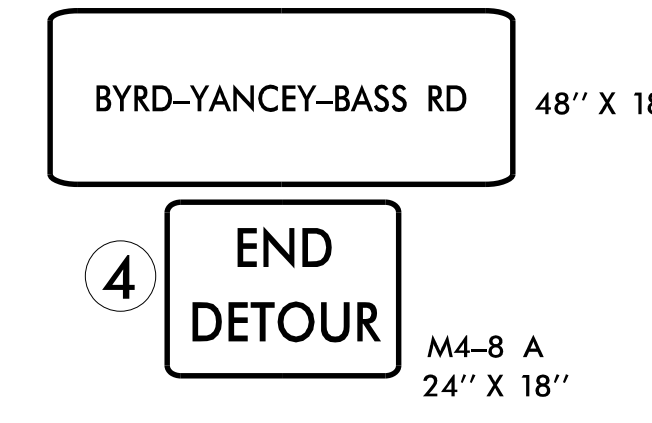
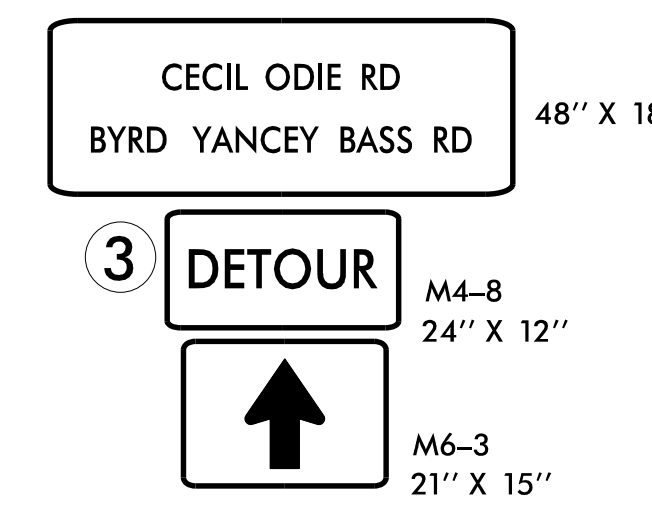
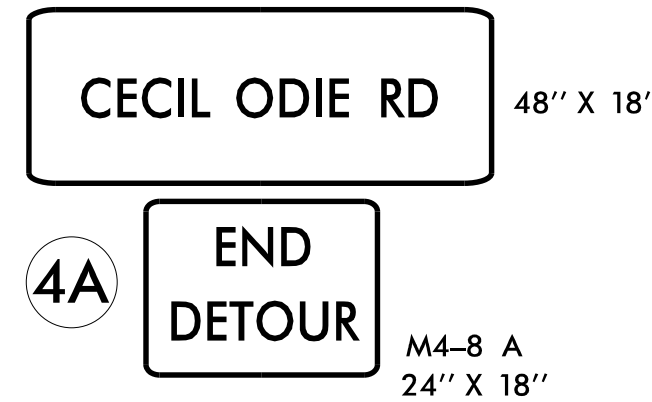
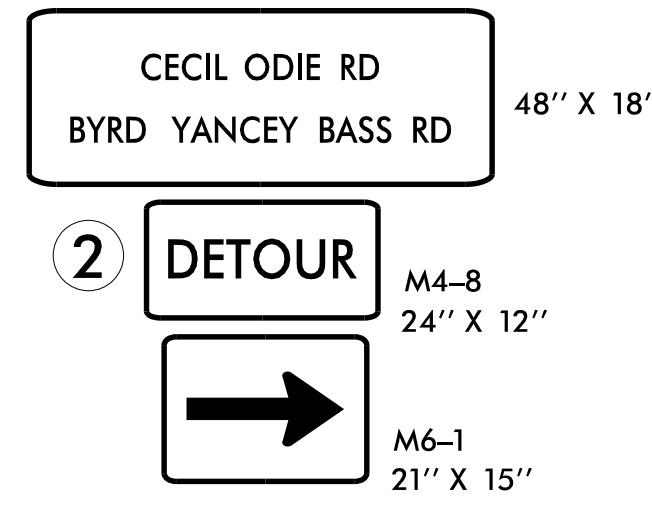
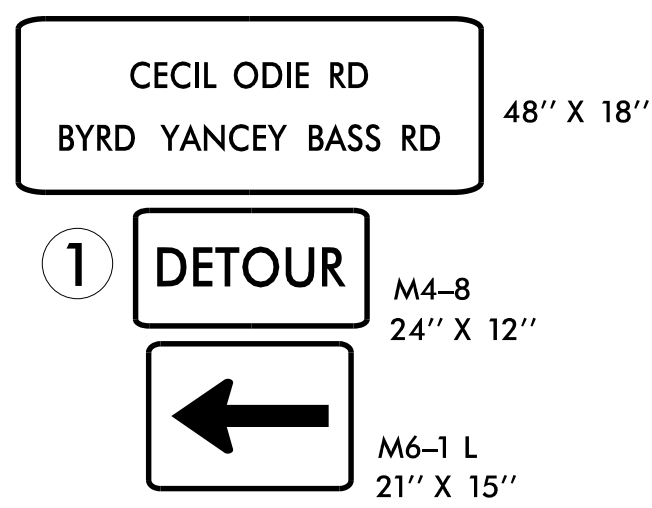
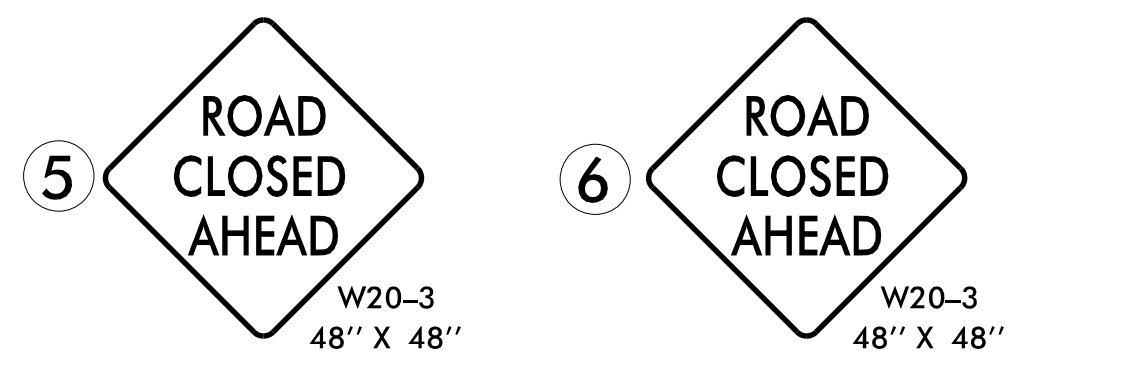
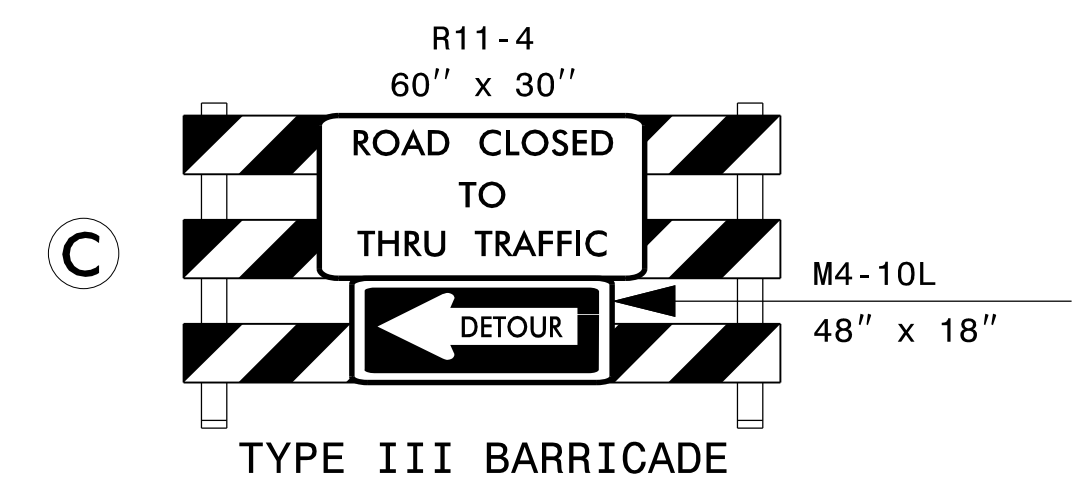
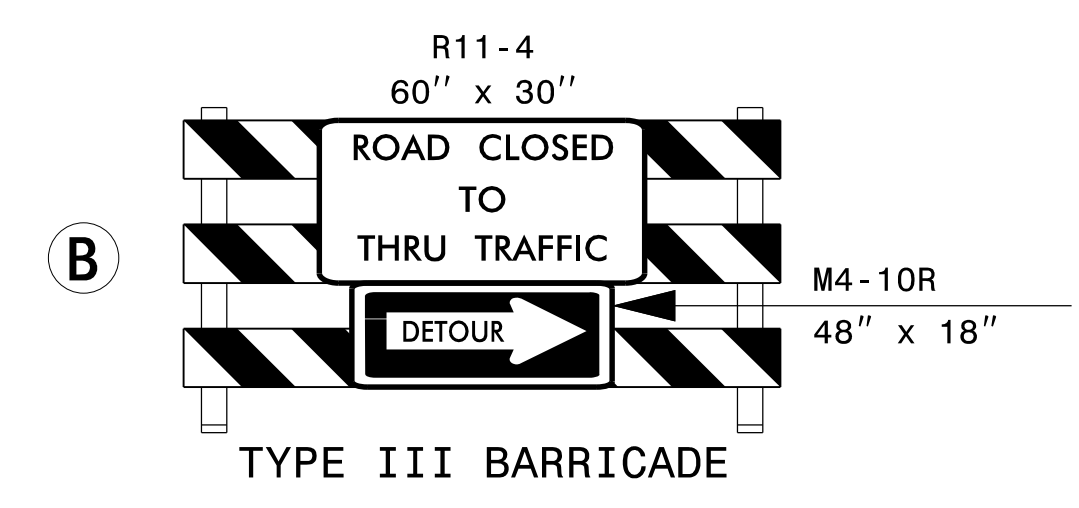
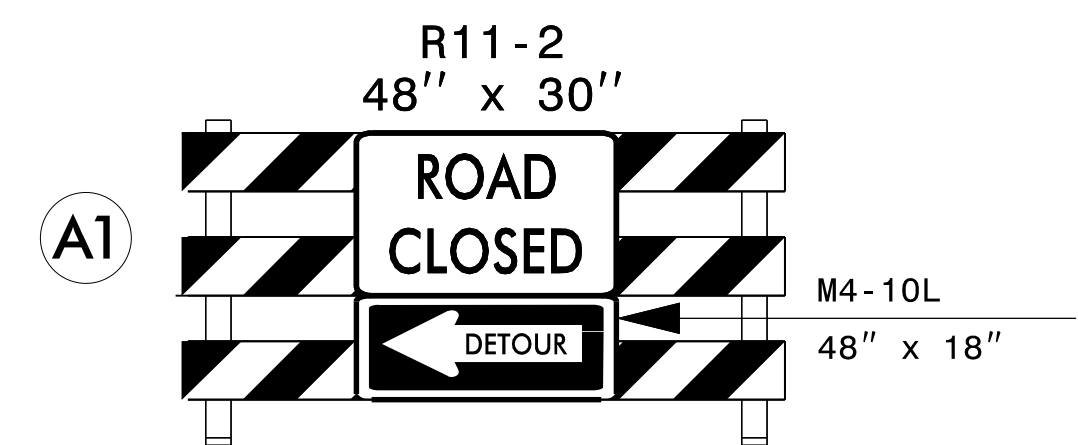
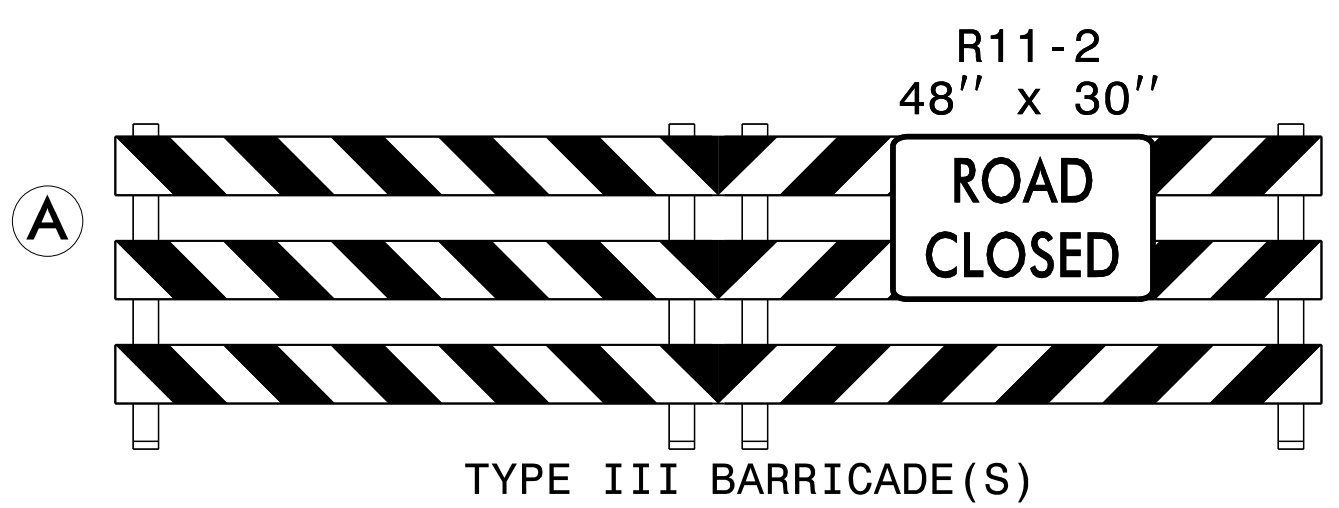
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UNLESS ALL SIGNATURES COMPLETED**



**DETOUR  
SIGN DESIGN**



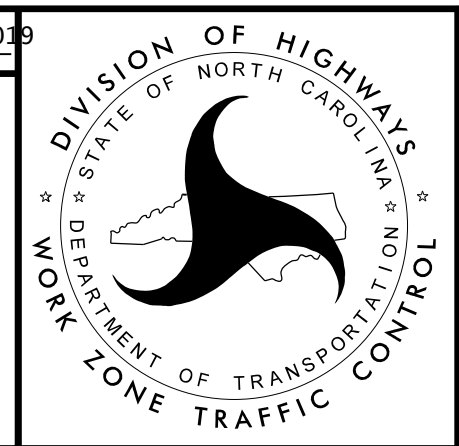
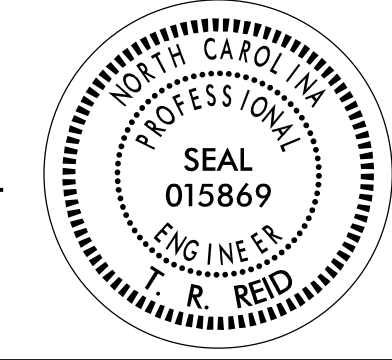
**PROPOSED DETOUR**  
DETOUR ROUTE ●—●—●  
DETOUR LENGTH 4.25 MI.



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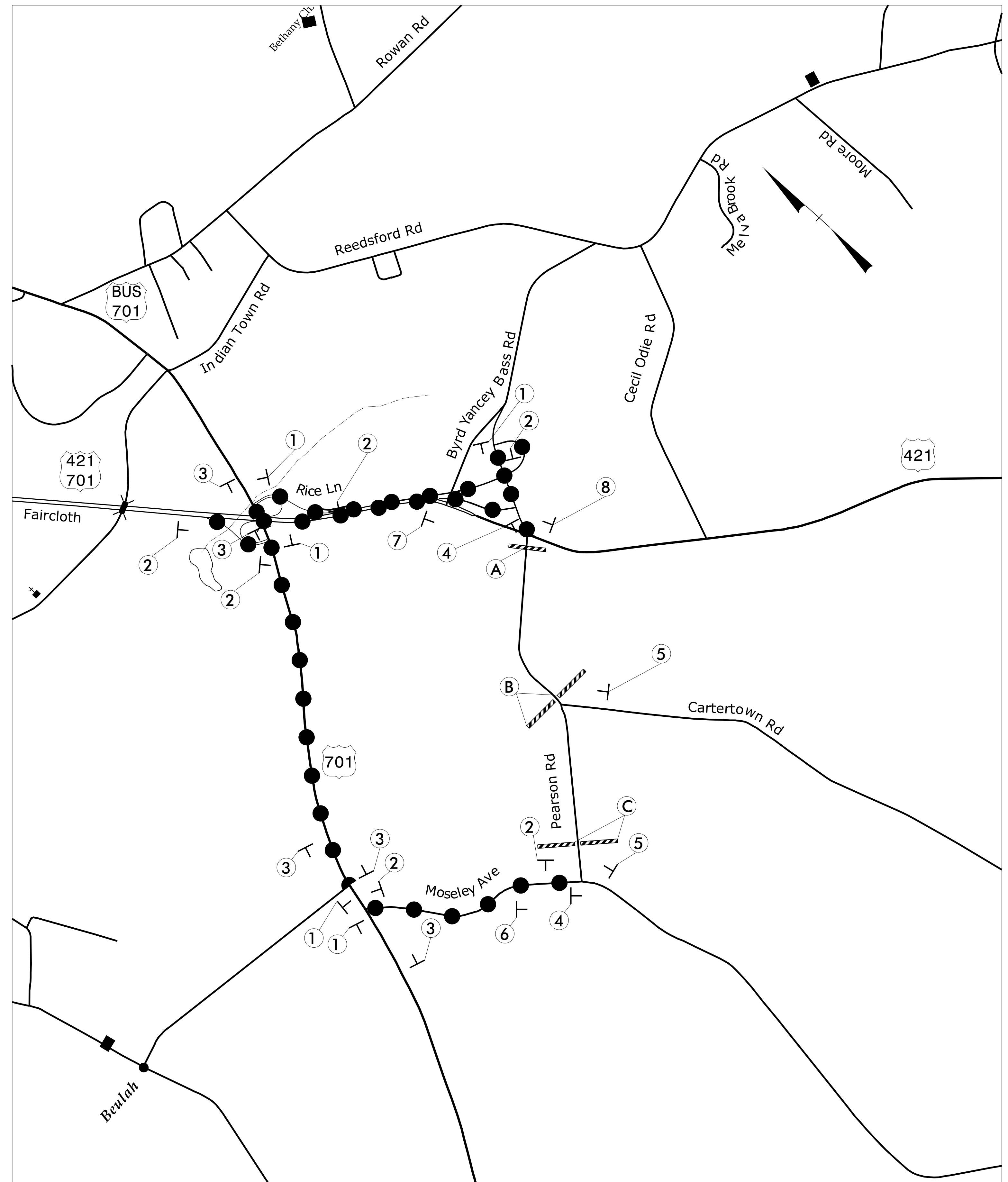
**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
19191 781-4626 VOICE 19191 781-4869 FAX  
NC License NO.: F-0105

APPROVED: [Signature] DATE: 11/5/2019



**TRANSPORTATION OPERATIONS PLAN**

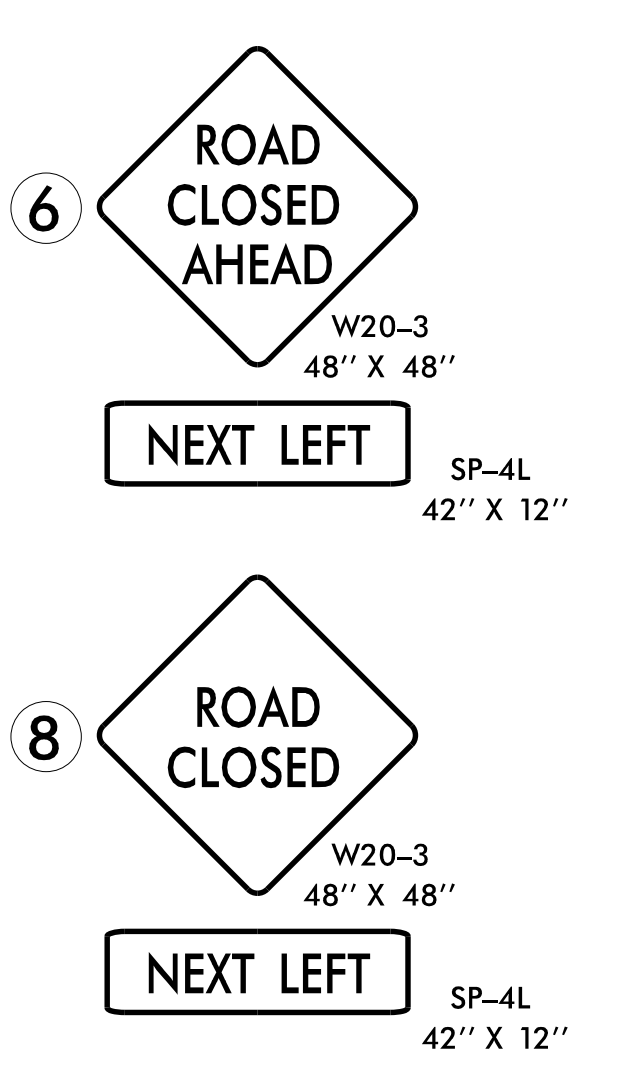
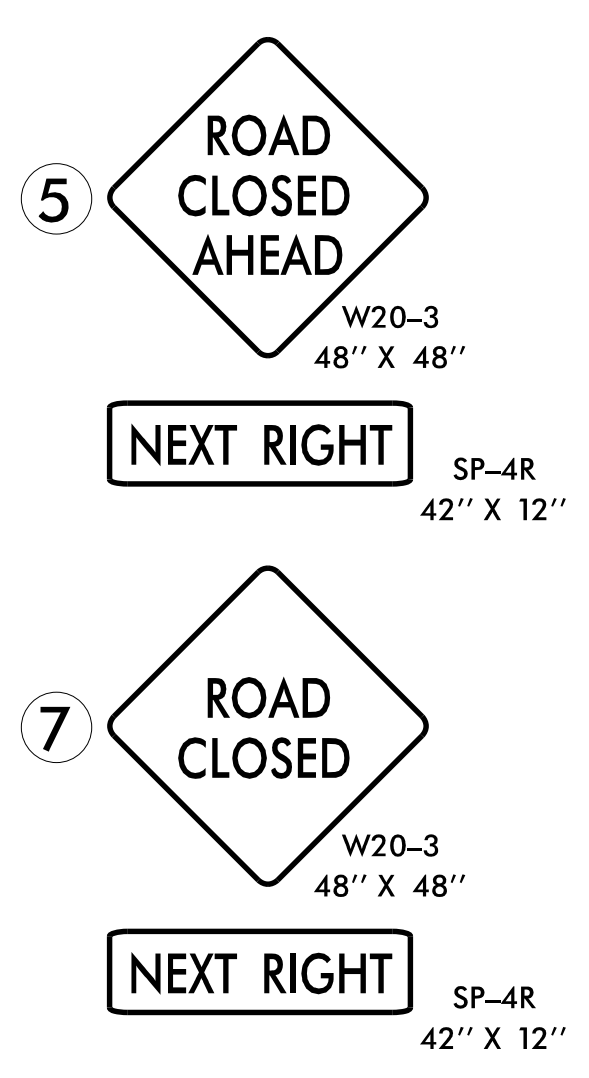
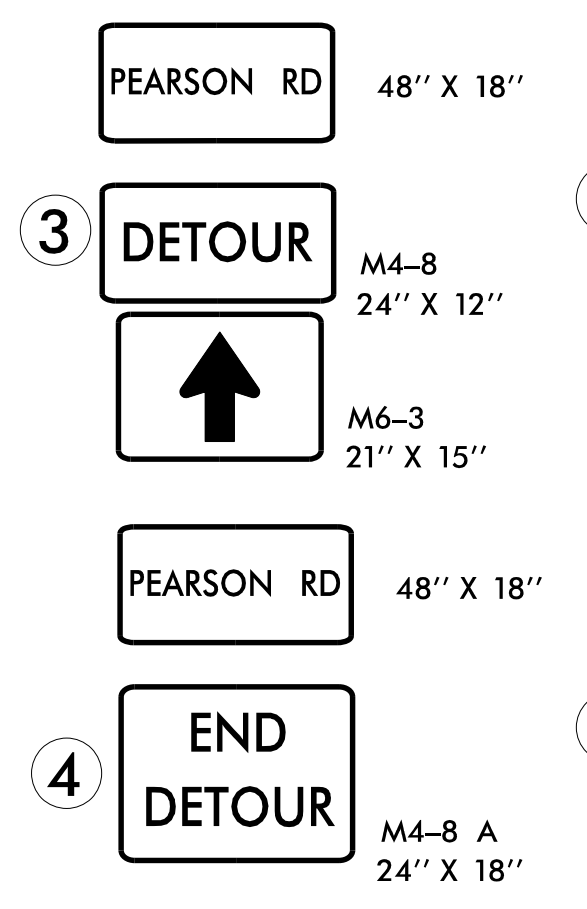
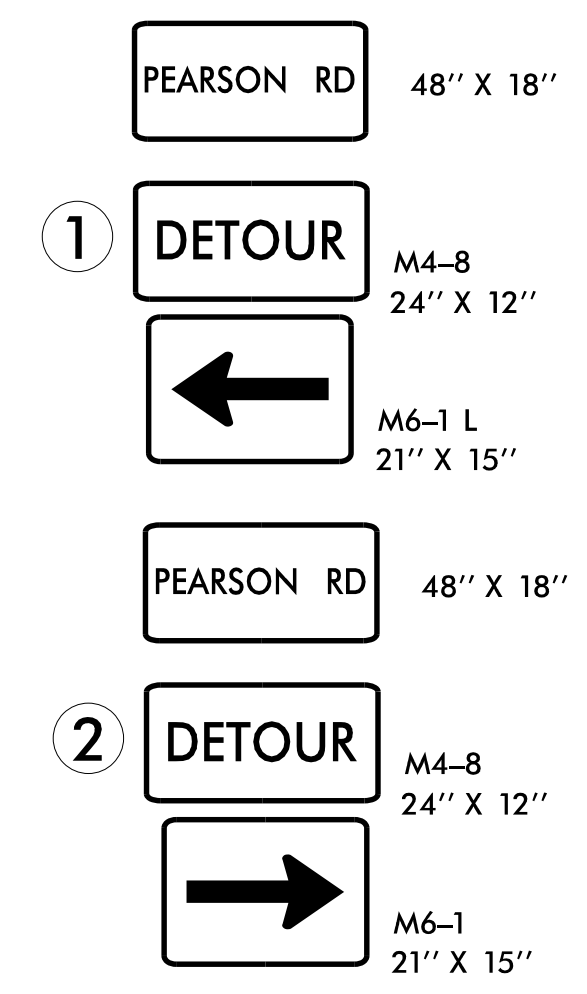
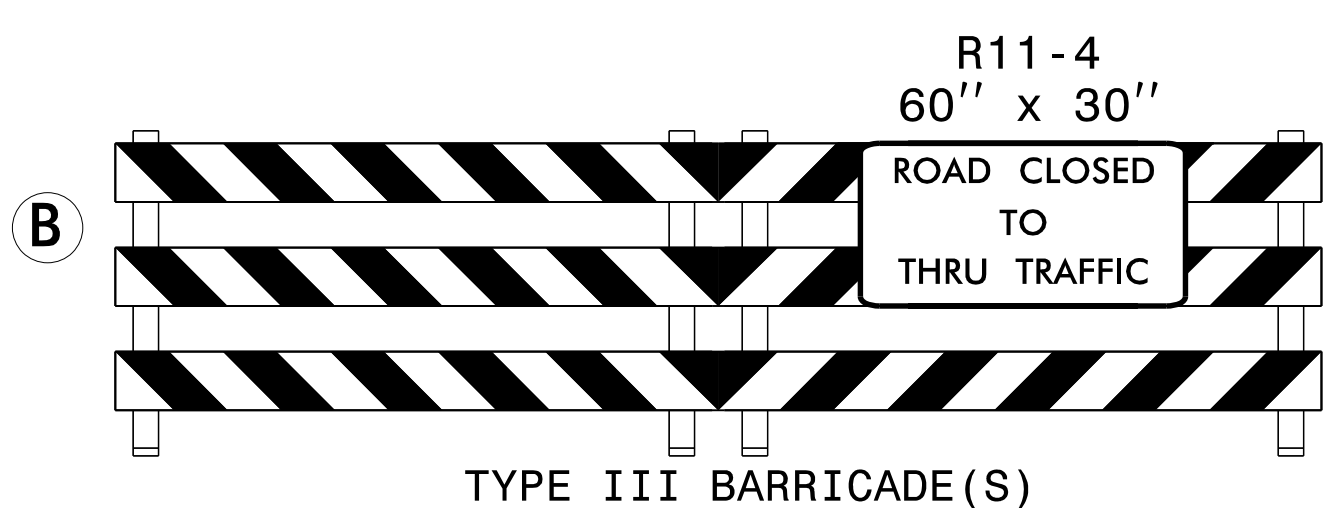
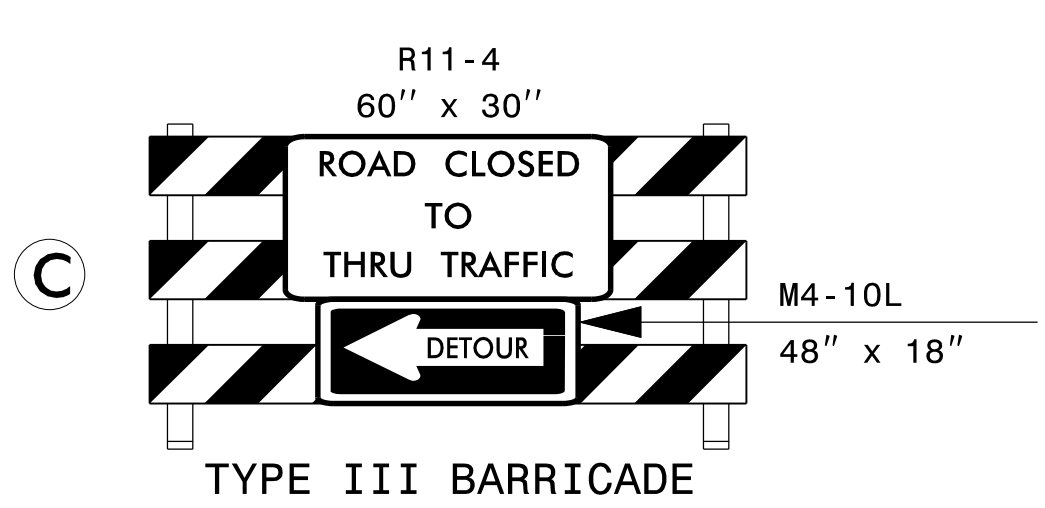
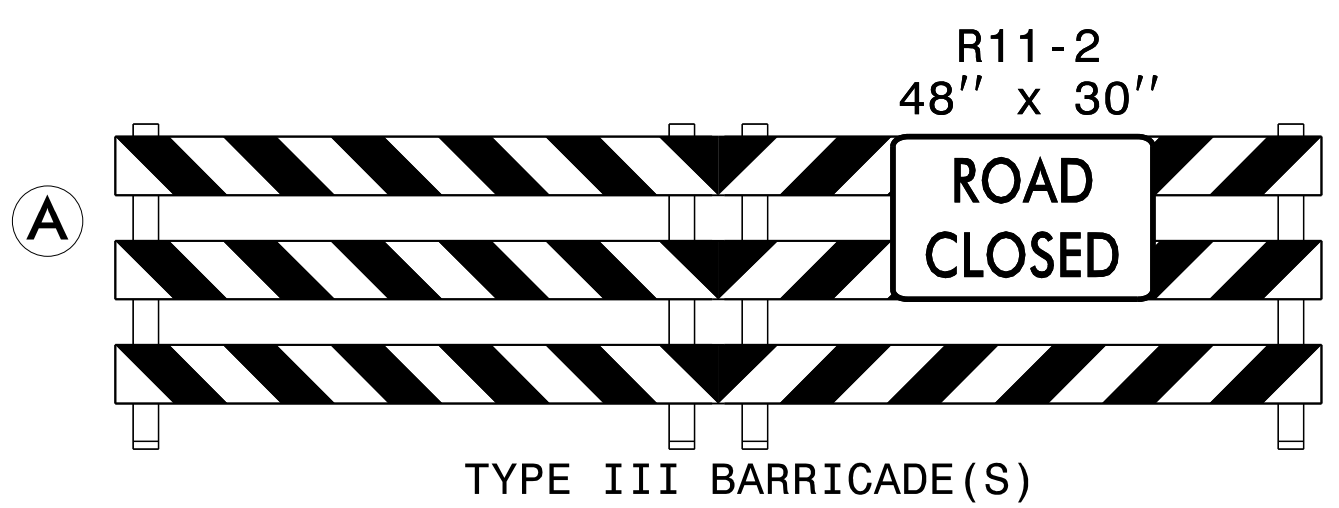
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



**PROPOSED DETOUR**

DETOUR ROUTE ●—●—●

DETOUR LENGTH 3.7 MI.

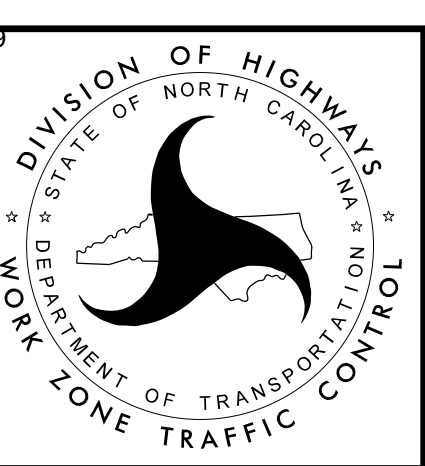


11/5/2019 9:56:38 AM C:\ADD\2303E\TrafficControl\TCP\2303e\_tm.p\_03e.dgn smodin

**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
19191 781-4626 VOICE 19191 781-4869 FAX  
NC License NO.: F-0105

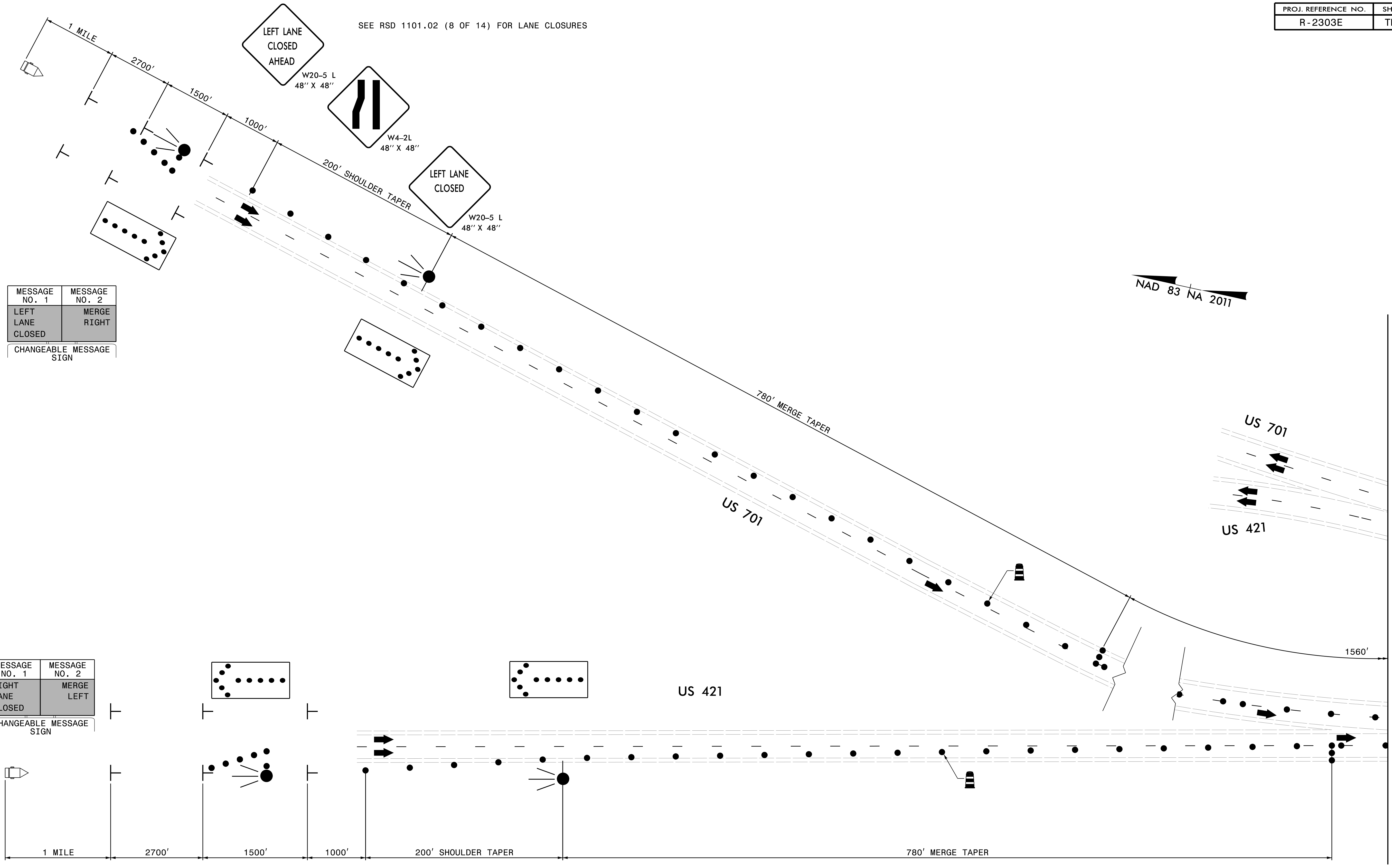
APPROVED: DATE: 11/5/2019

SEAL



**TRANSPORTATION OPERATIONS PLAN**

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

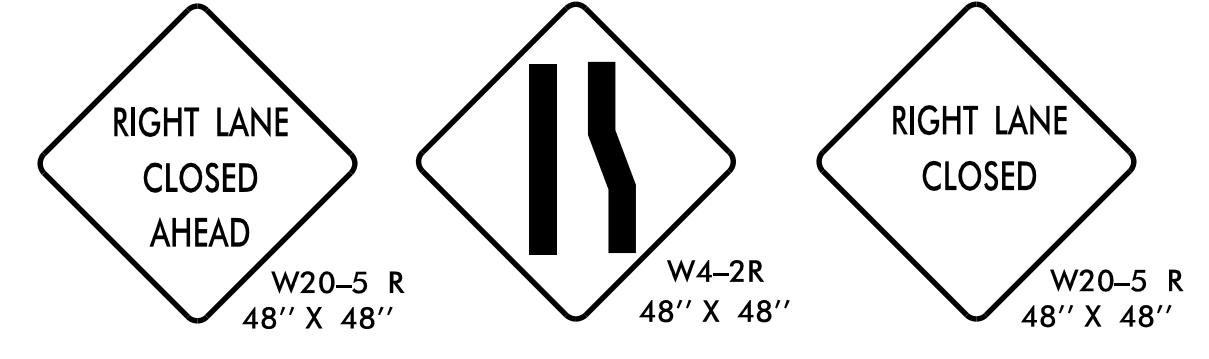


MESSAGE NO. 1	MESSAGE NO. 2
LEFT LANE CLOSED	MERGE RIGHT

CHANGEABLE MESSAGE SIGN

MESSAGE NO. 1	MESSAGE NO. 2
RIGHT LANE CLOSED	MERGE LEFT

CHANGEABLE MESSAGE SIGN



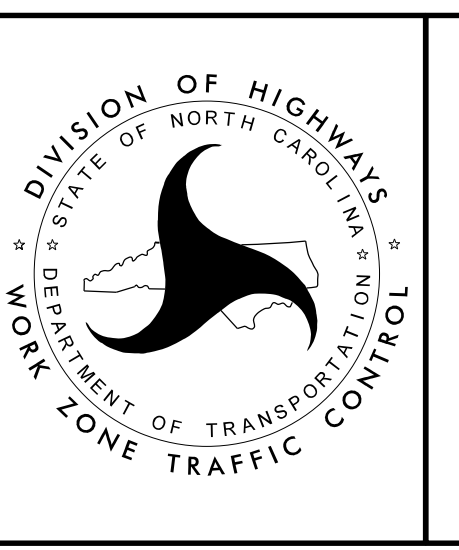
SEE RSD 1101.02 (4 OF 14) FOR LANE CLOSURE



SEE RSD 1101.02 (8 OF 14) FOR LANE CLOSURES

11/5/2019 02:48:52-07:00 CADD\NR2303E\TrafficControl\CP\2303e\_fc\_tmp\_04.dgn gmedlin

APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

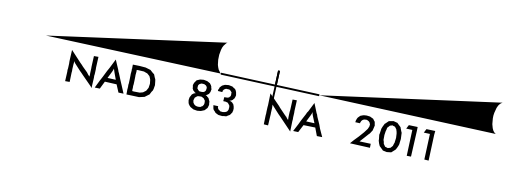


SITE 1  
 PHASE 1 DETAILS  
 -L-

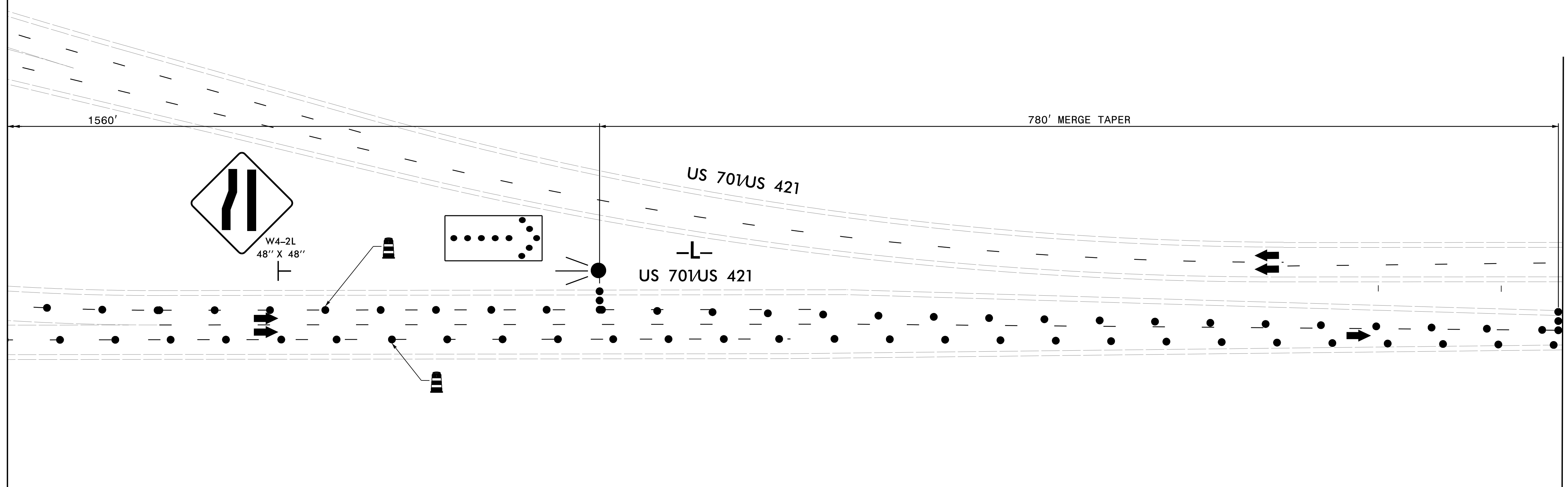
MATCHLINE SHEET TMP-5

PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-5

SEE RSD 1101.02 (8 OF 14) FOR LANE CLOSURES



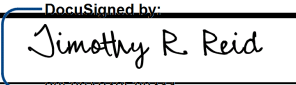
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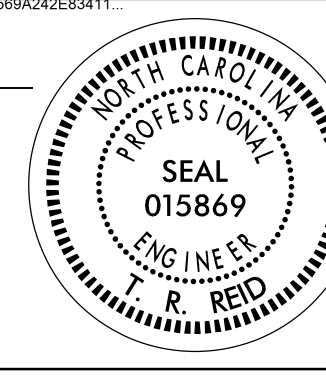
MATCHLINE SHEET TMP-6  
-L- STA 7+50.00

11/5/2019  
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gmedlin

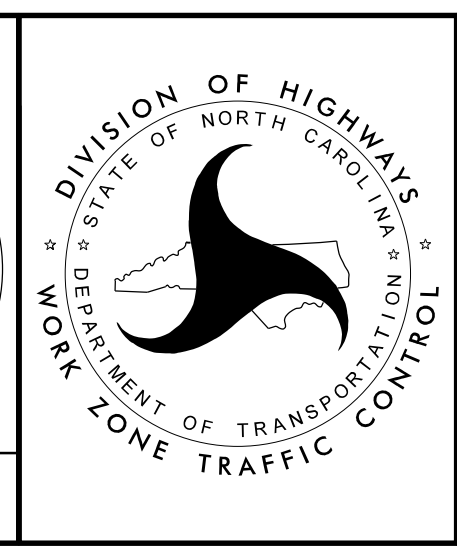
**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919) 781-4626 VOICE (919) 781-4869 FAX  
NC License NO.: F-0105

APPROVED:   
DATE: 11/5/2019

SEAL



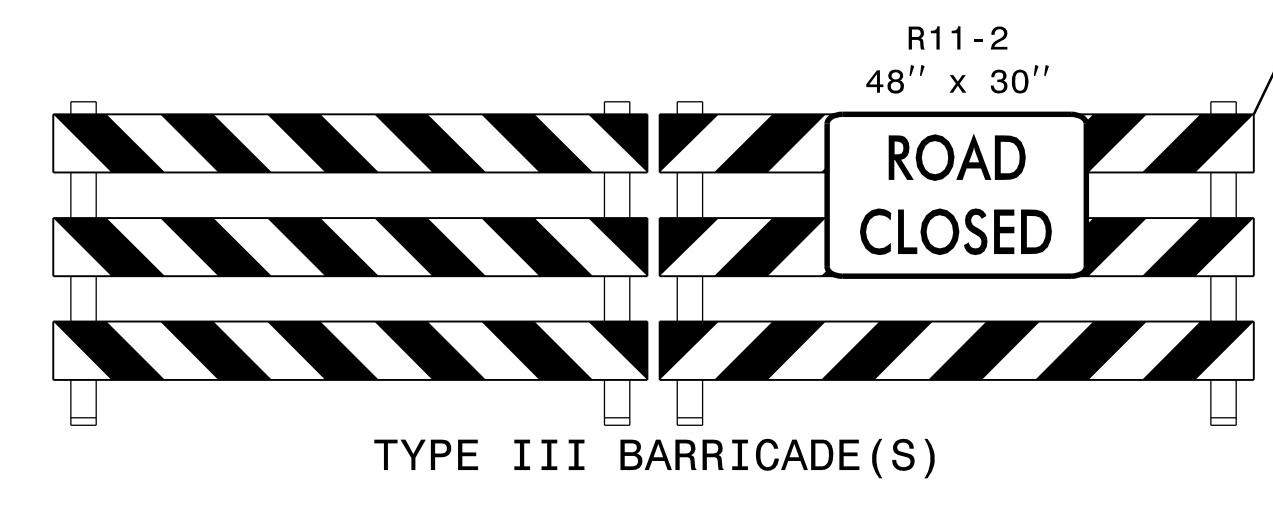
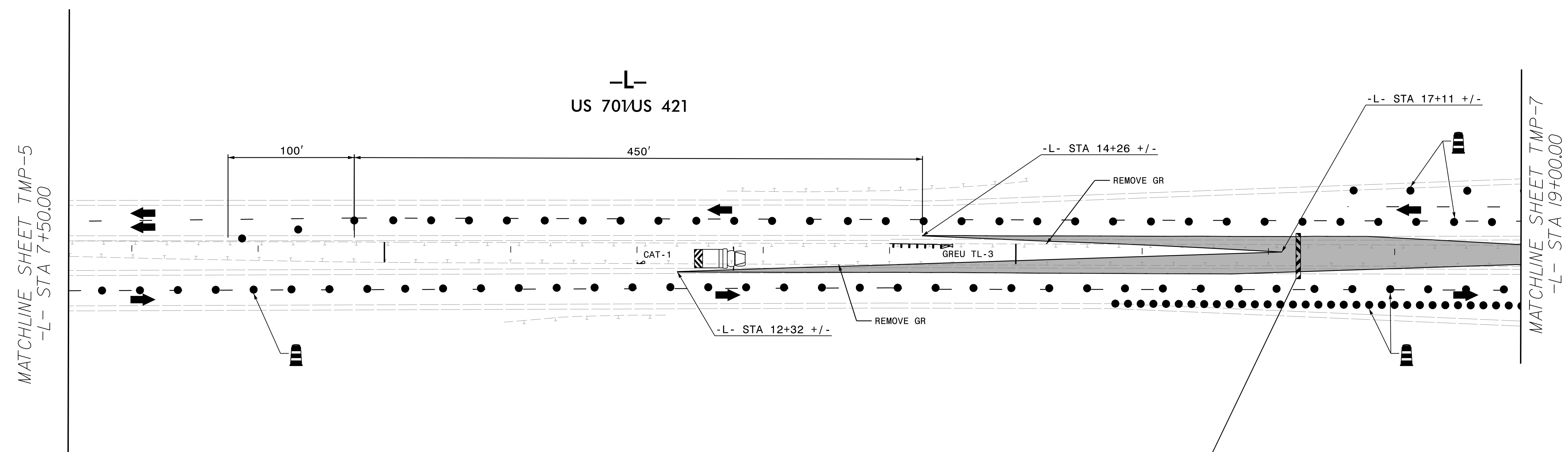
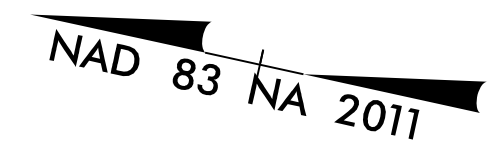
**DOCUMENT NOT CONSIDERED FINAL  
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**SITE 1  
PHASE 1 DETAILS  
-L-**

PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-6

SEE SHEETS 2B-1 AND 2B-2 FOR CROSSOVER



11/5/2019  
 O:\NRA\8522-07\CADD\NR2303E\TrafficControl\TCP\2303e\_fc\_tmp\_06.dgn  
 gmedlin

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 RALEIGH, NORTH CAROLINA 27609  
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APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
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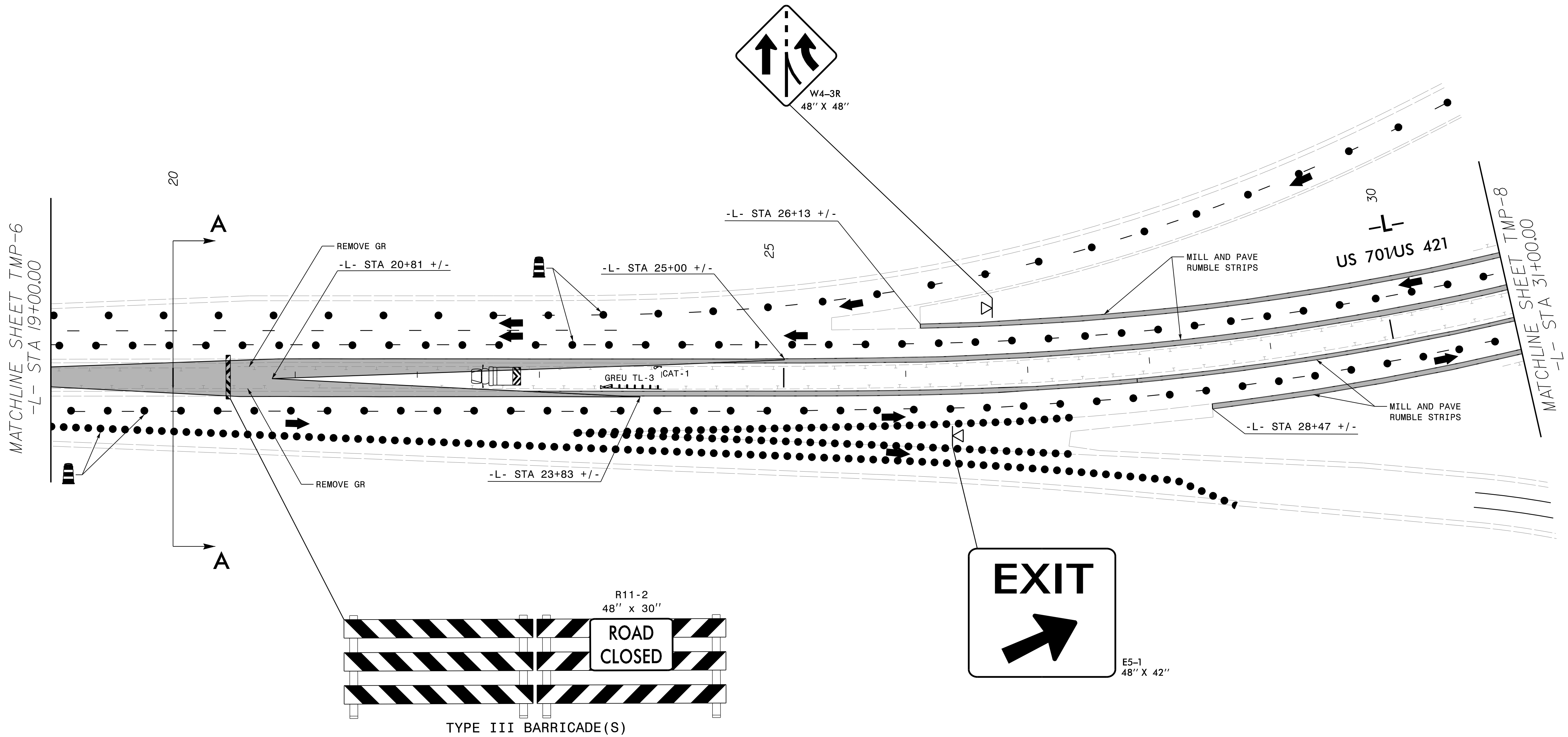
SITE 1  
 PHASE 1 DETAILS  
 -L-



SEE TMP-11 FOR -L- CROSS SECTION

SEE SHEETS 2B-1 AND 2B-2 FOR CROSSOVER  
SEE RSD 1101.02 (9 OF 14) FOR RAMP B LANE CLOSURE  
SEE RSD 1101.02 (10 OF 14) FOR RAMP C LANE CLOSURE

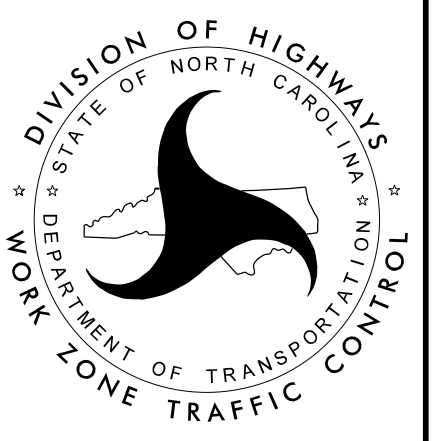
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 (919) 781-4626 VOICE (919) 781-4869 FAX  
 NC License NO.: F-0105

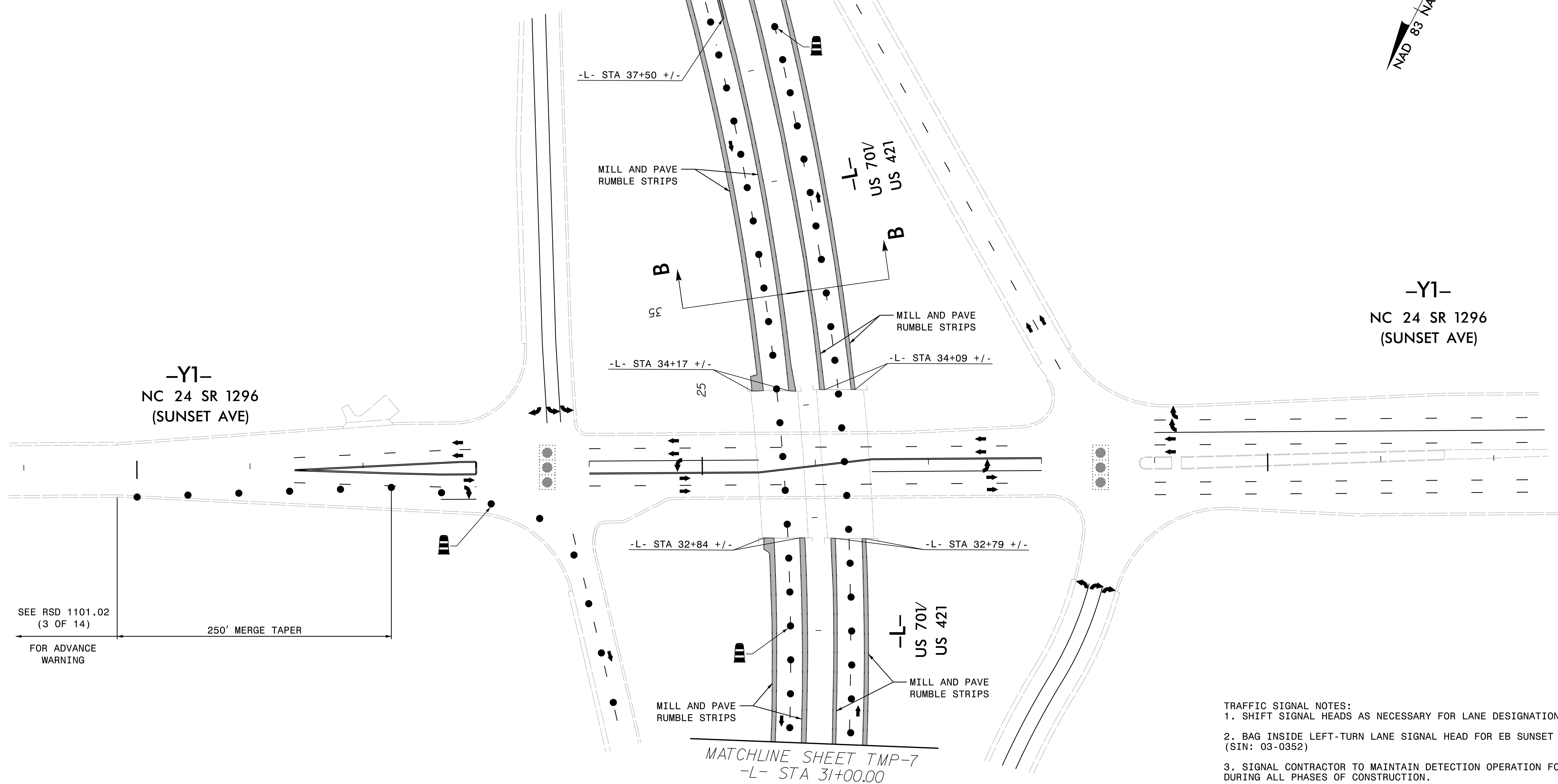
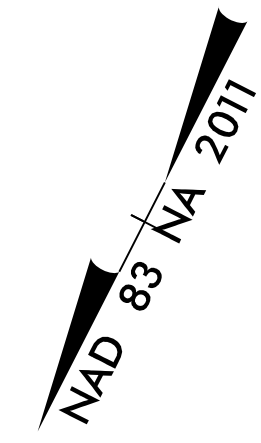
APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



SITE 1  
 PHASE 1 DETAILS  
 -L-

SEE TMP-11 FOR -L- CROSS SECTION

MATCHLINE SHEET TMP-9  
-L- STA 38+00.00



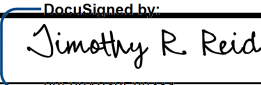
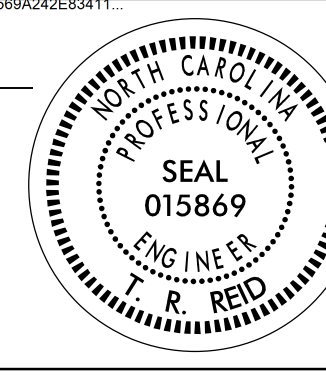
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NC 24 SR 1296  
(SUNSET AVE)

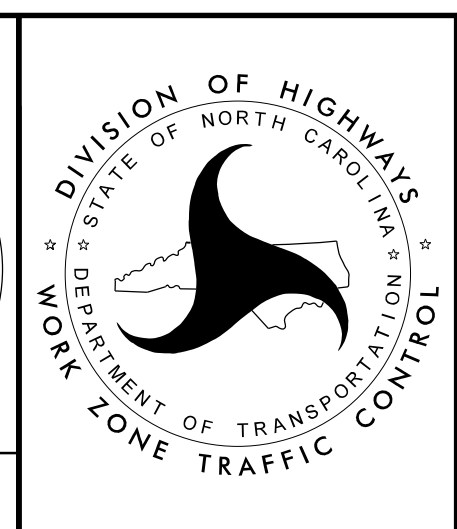
-Y1-  
NC 24 SR 1296  
(SUNSET AVE)

SEE RSD 1101.02  
(3 OF 14)  
FOR ADVANCE  
WARNING  
250' MERGE TAPER

- TRAFFIC SIGNAL NOTES:
1. SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS.
  2. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352)
  3. SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

11/5/2019  
O:\NRA\8522-07\CADD\NR2303E\TrafficControl\CPV\2303e\_fc\_tmp\_08.dgn  
gmedlin

APPROVED:   
DATE: 11/5/2019  
SEAL  


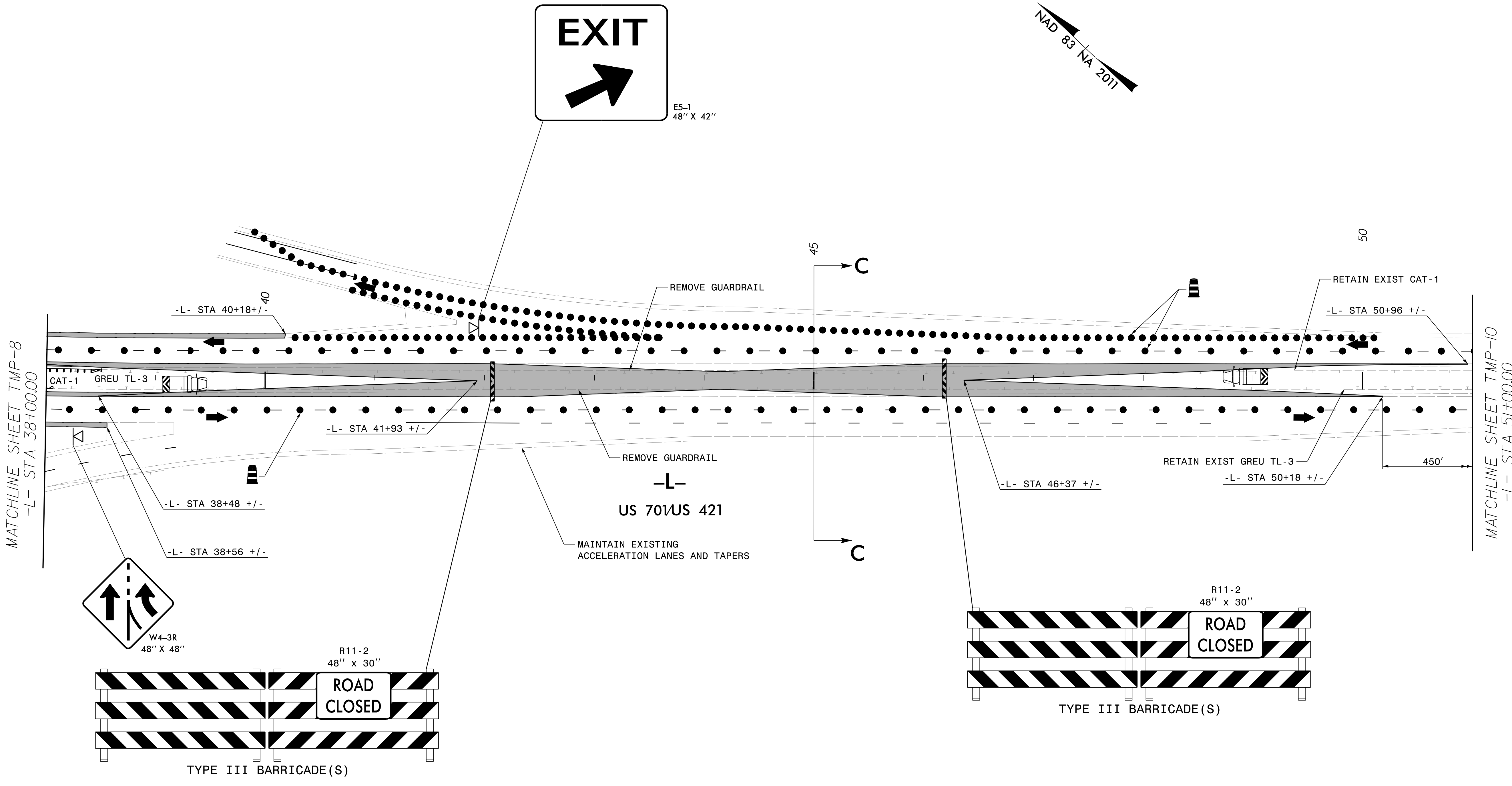


SITE 1  
PHASE 1 DETAILS  
-L-

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

SEE TMP-11 FOR -L- CROSS SECTION

SEE RSD 1101.02 (10 OF 14) FOR RAMP A LANE CLOSURE  
SEE SHEET 2B-3 AND 2B-4 FOR CROSS OVER



11/5/2019  
 O:\RA\8522-07\CADD\2303E\TrafficControl\TCP\2303e\_fc\_tmp\_09.dgn  
 gmedlin

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 RALEIGH, NORTH CAROLINA 27609  
 (919) 781-4626 VOICE (919) 781-4869 FAX  
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 DATE: 11/5/2019  
 SEAL



SITE 1  
 PHASE 1 DETAILS  
 -L-

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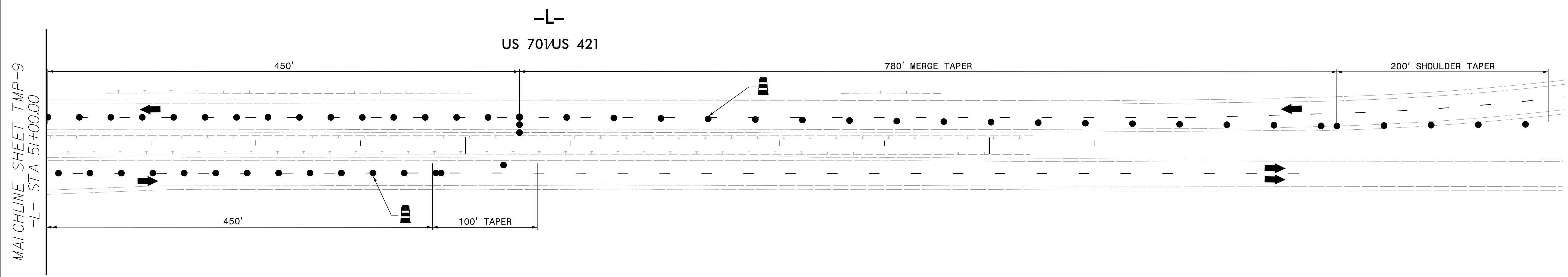
PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-10

NAD 83 NA 2011

55

60

SEE RSD 1101.02 (4 OF 14)  
FOR ADVANCE WARNING DEVICES



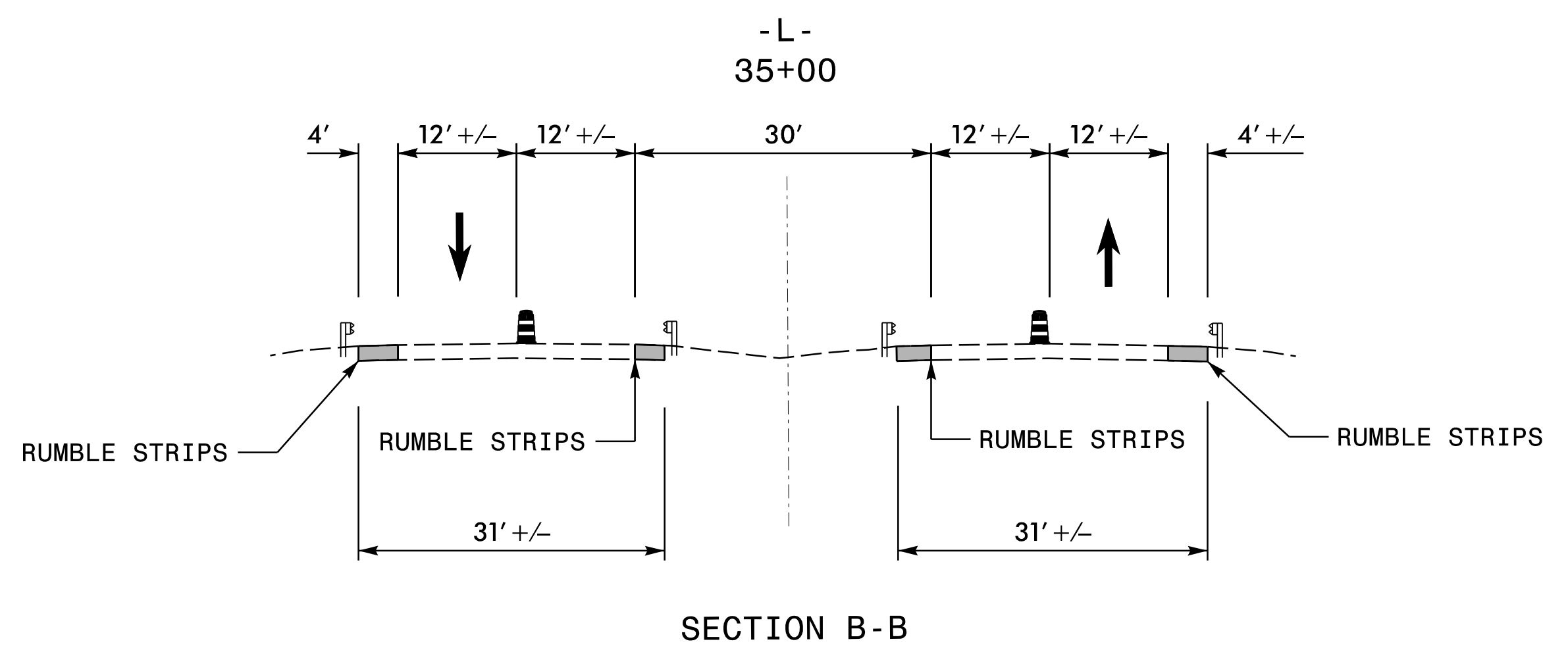
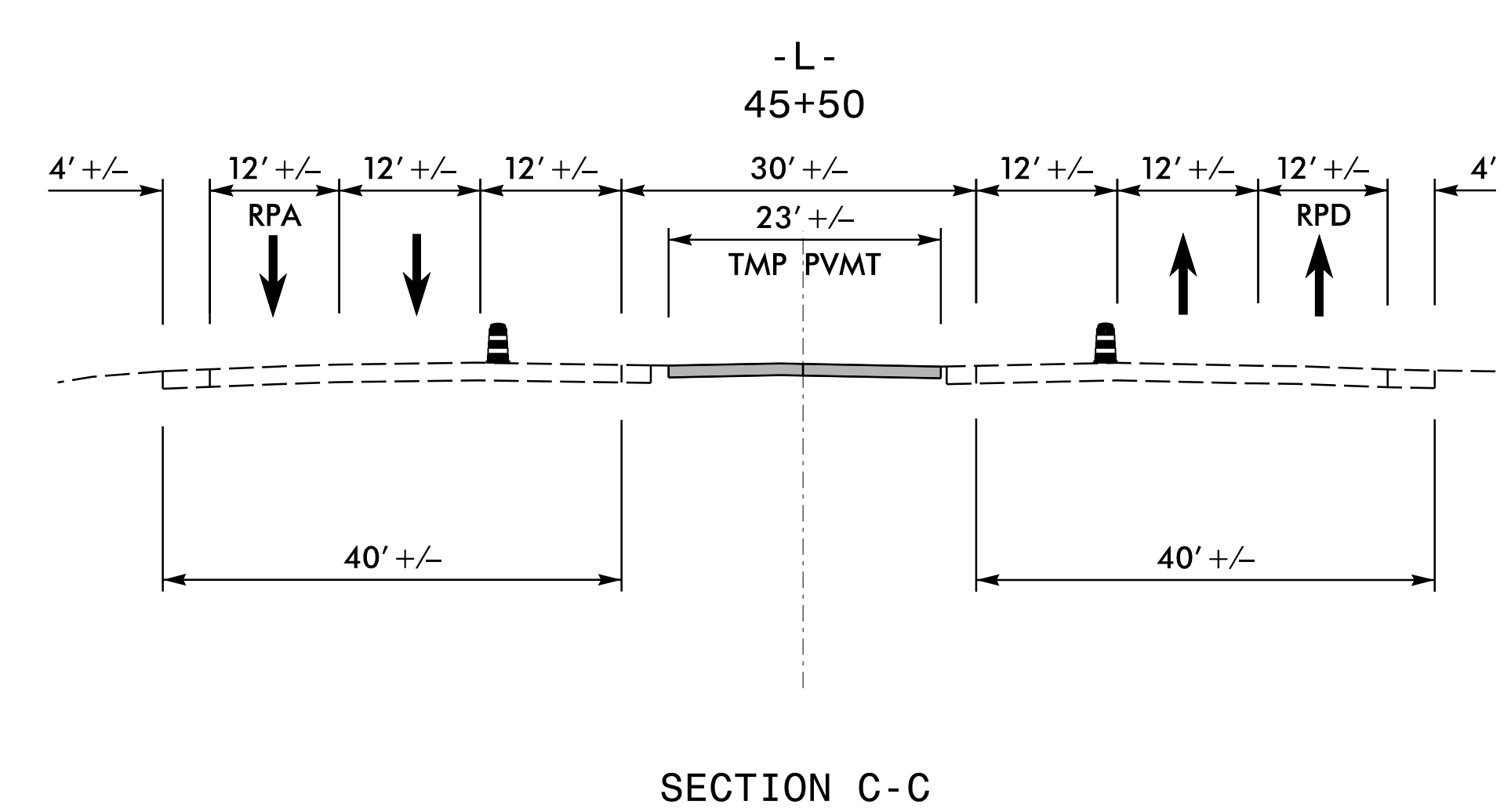
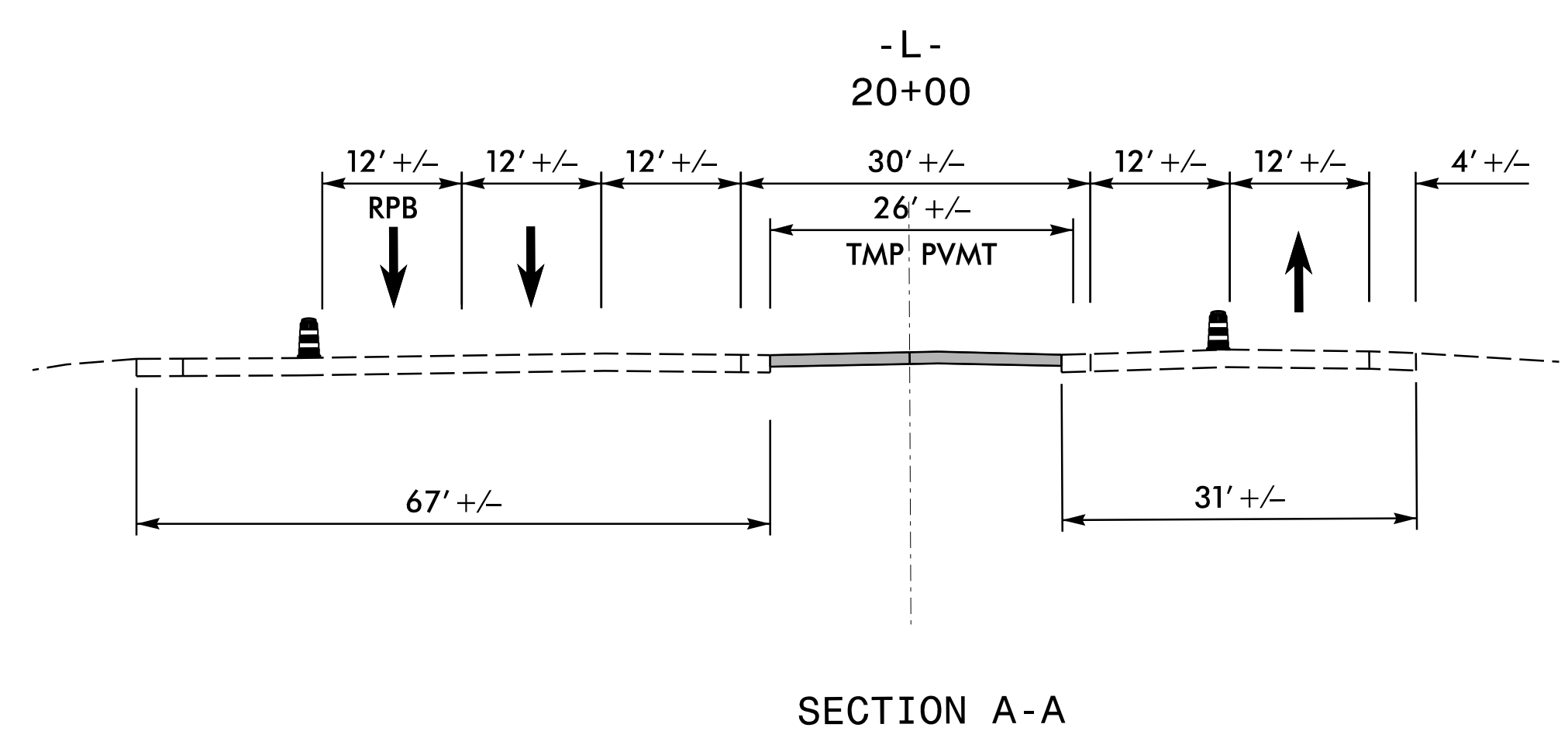
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APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
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 UNLESS ALL SIGNATURES COMPLETED



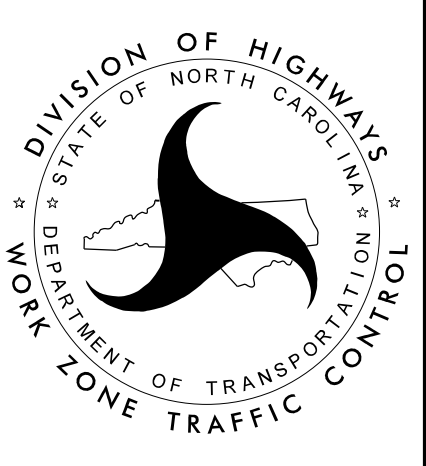
**SITE 1**  
**PHASE 1 DETAILS**  
 -L-



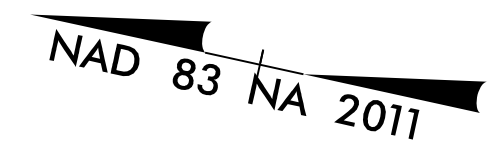
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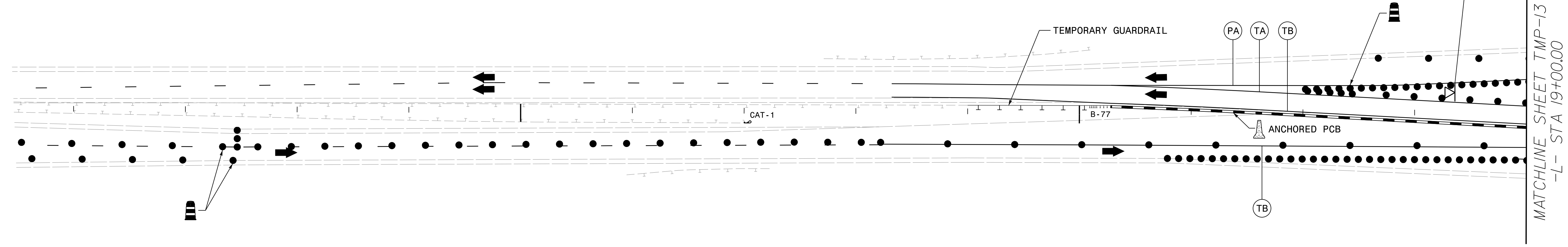
SITE 1  
 PHASE 1  
 -L-  
 CROSS-SECTIONS



10

15

-L-  
US 70/US 421



MATCHLINE SHEET TMP-13  
-L- STA 19+00.00

SEE SHEETS TMP-4 AND TMP-5 FOR LANE CLOSURE AND DEVICES  
←

11/5/2019  
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gmedlin

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APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

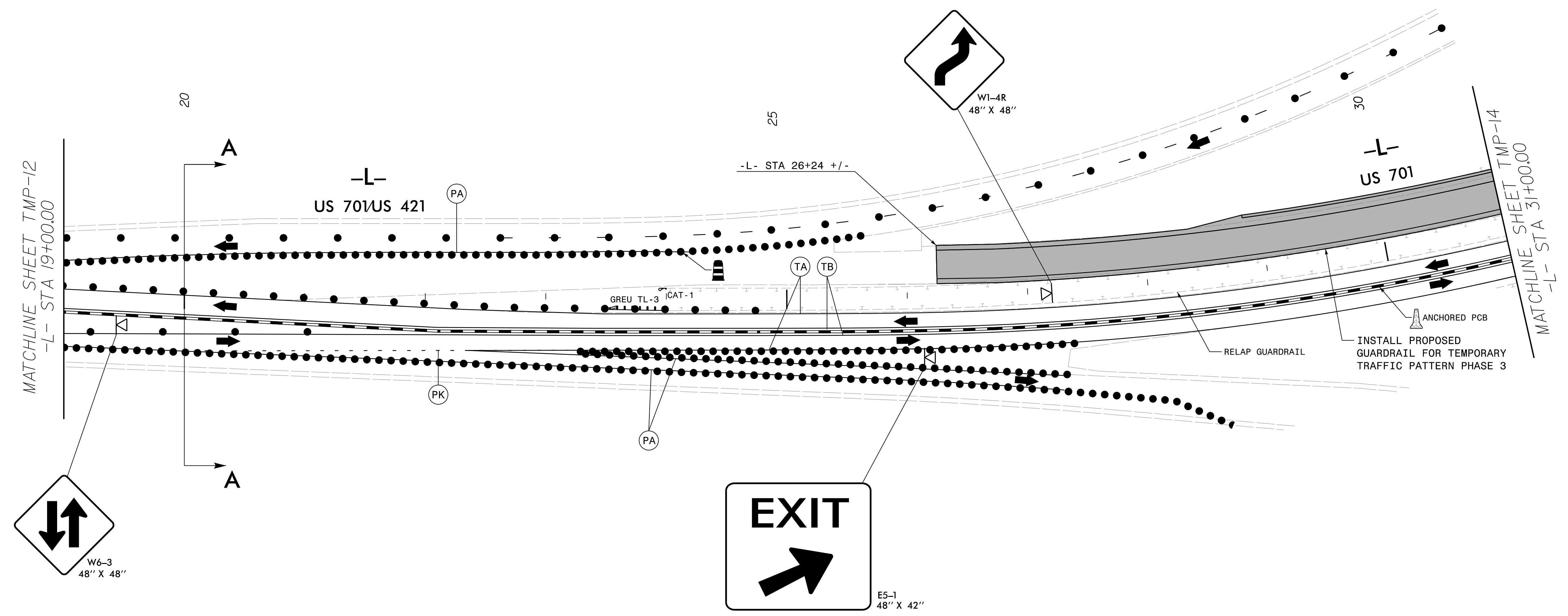


**SITE 1  
 PHASE 2 DETAILS  
 -L-**

SEE TMP-17 FOR -L- CROSS SECTION

SEE RSD 1101.02 (9 OF 14) FOR RAMP B LANE CLOSURE  
 SEE RSD 1101.02 (10 OF 14) FOR RAMP C LANE CLOSURE  
 SEE RSD 1101.03 (4 OF 9) FOR MEDIAN CROSSOVER

NAD 83 NA 2011



11/5/2019  
 O:\NRA\8522-07\CADD\NR2303E\TrafficControl\CP\2303e\_fc\_tmp\_13.dgn  
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APPROVED:   
 DATE: 11/5/2019  
 SEAL

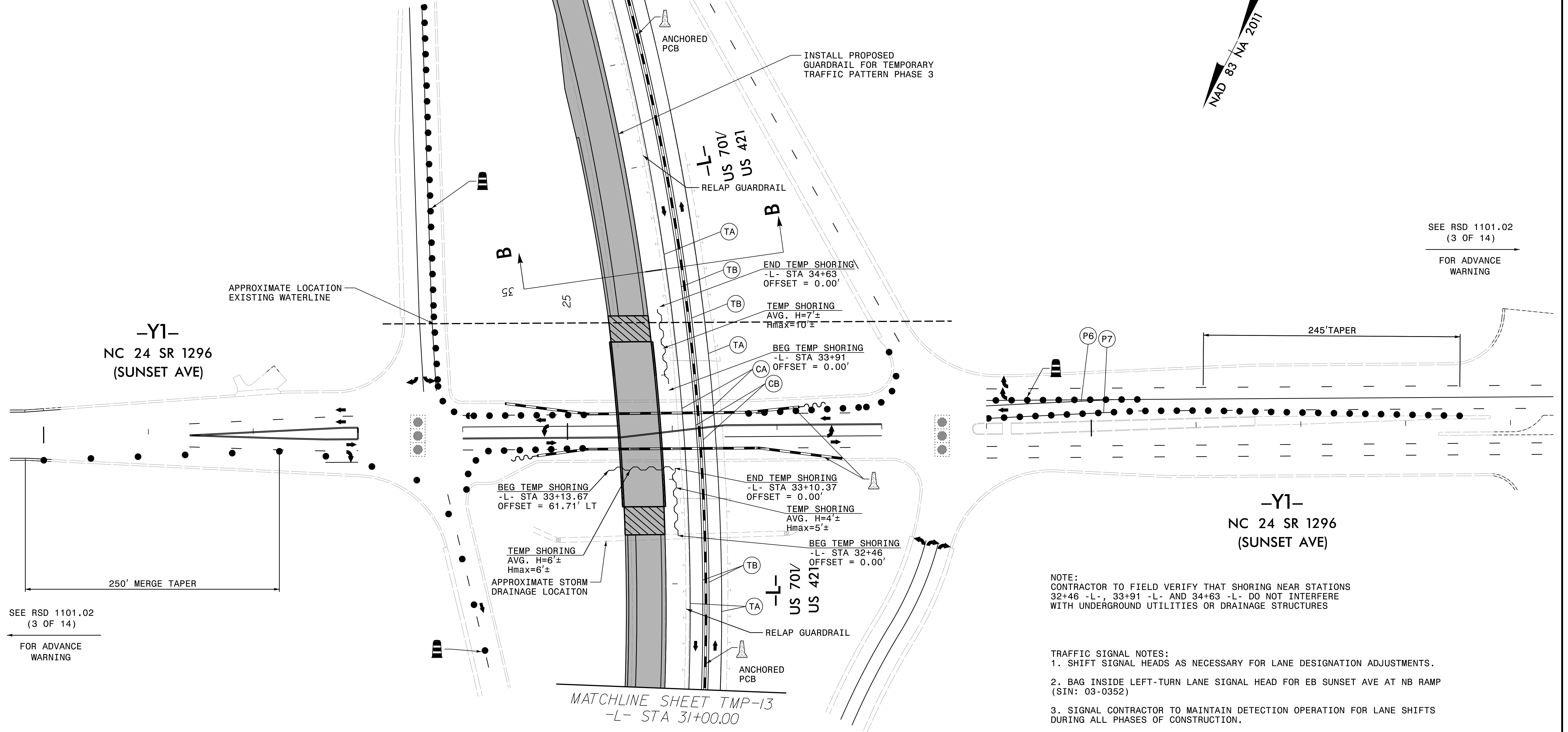
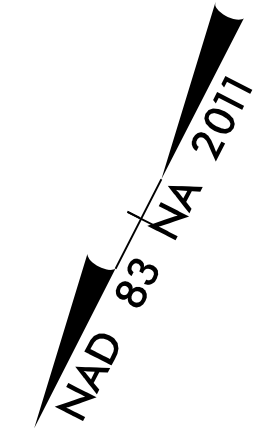


**SITE 1**  
**PHASE 2 DETAILS**  
**-L-**

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SEE TMP-17 FOR -L- CROSS SECTION

MATCHLINE SHEET TMP-15  
-L- STA 38+00.00



SEE RSD 1101.02  
(3 OF 14)  
FOR ADVANCE  
WARNING

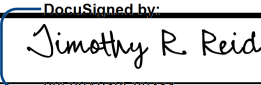
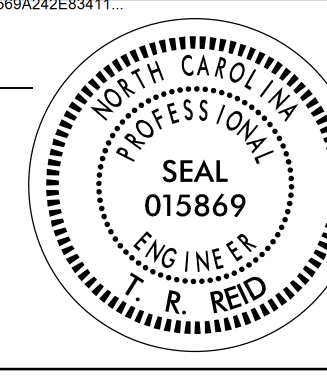
SEE RSD 1101.02  
(3 OF 14)  
FOR ADVANCE  
WARNING

NOTE:  
CONTRACTOR TO FIELD VERIFY THAT SHORING NEAR STATIONS  
32+46 -L-, 33+91 -L- AND 34+63 -L- DO NOT INTERFERE  
WITH UNDERGROUND UTILITIES OR DRAINAGE STRUCTURES

- TRAFFIC SIGNAL NOTES:
1. SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS.
  2. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352)
  3. SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

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DATE: 11/5/2019  
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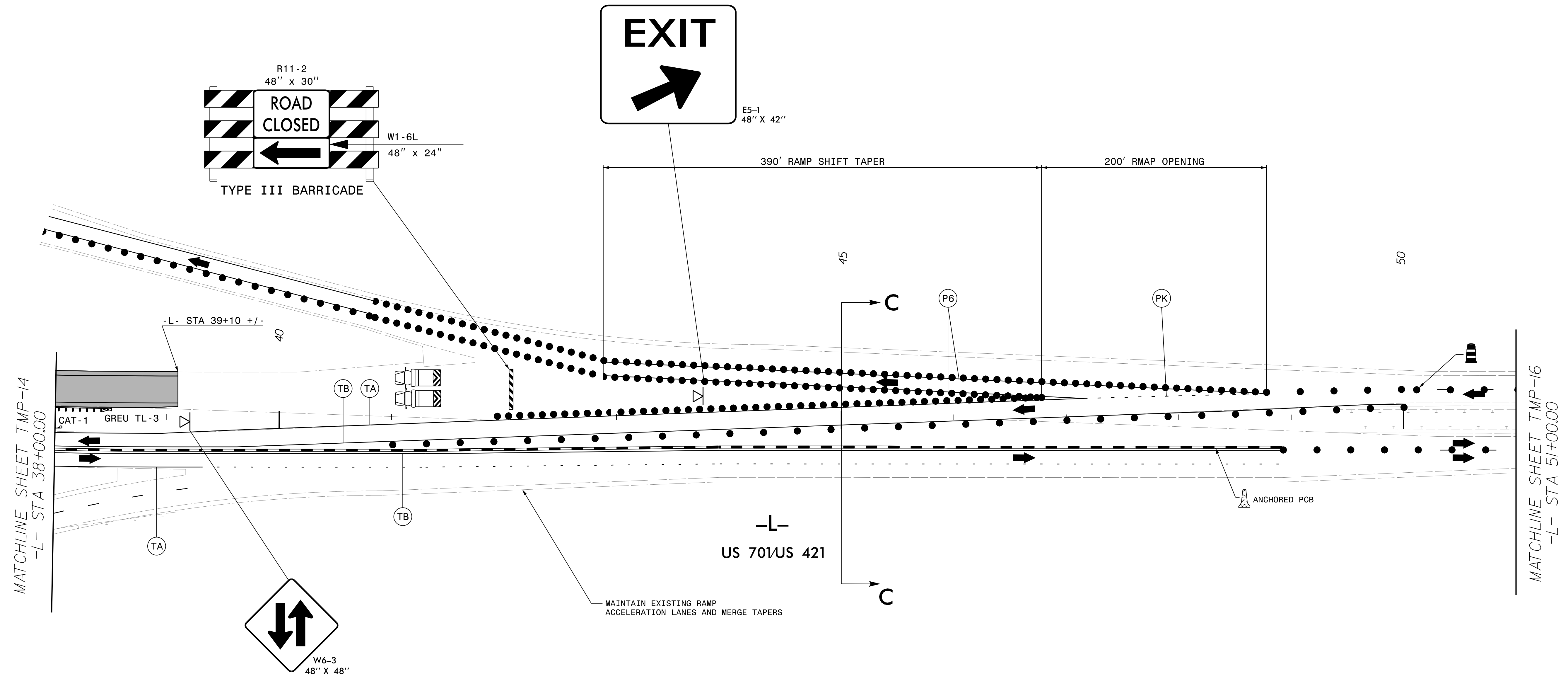
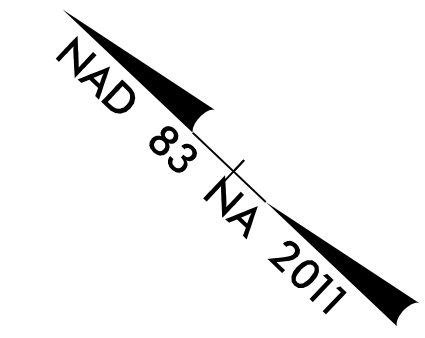


SITE 1  
PHASE 2 DETAILS  
-L-



SEE TMP-17 FOR -L- CROSS SECTION

SEE RSD 1101.04 (4 OF 9) FOR CROSSOVER  
SEE RSD 1101.02 (10 OF 14) FOR RAMP A LANE CLOSURE



11/5/2019  
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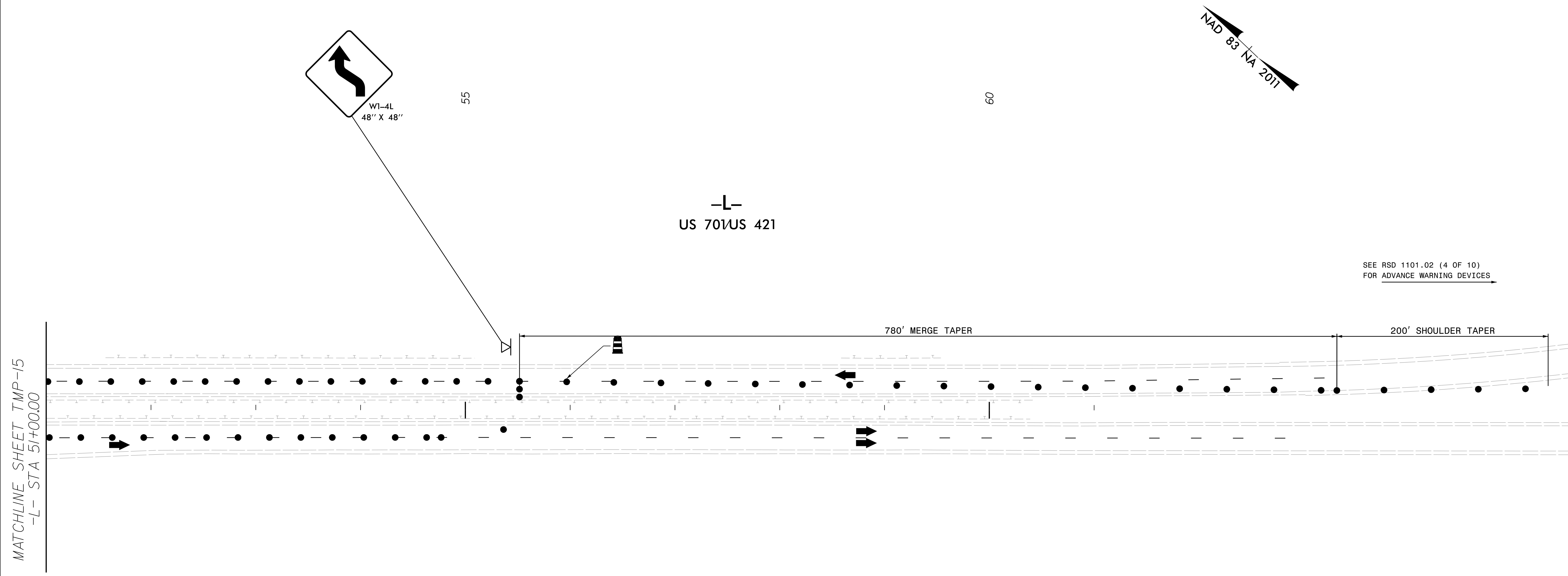
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 RALEIGH, NORTH CAROLINA 27609  
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 NC License NO.: F-0105

APPROVED: Timothy R. Reid  
 DATE: 11/5/2019  
 SEAL  
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 UNLESS ALL SIGNATURES COMPLETED**




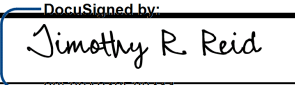
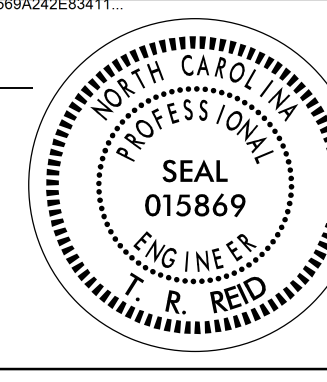
**SITE 1  
 PHASE 2 DETAILS  
 -L-**

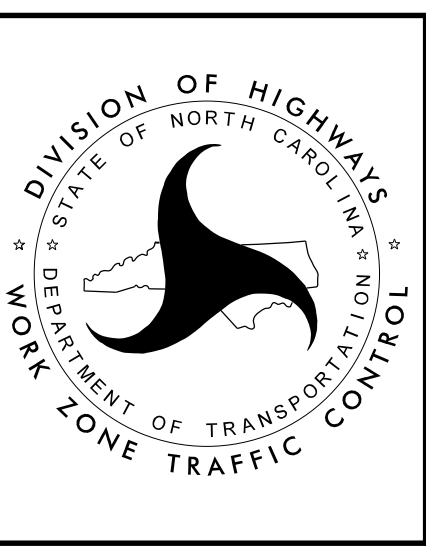
PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-16



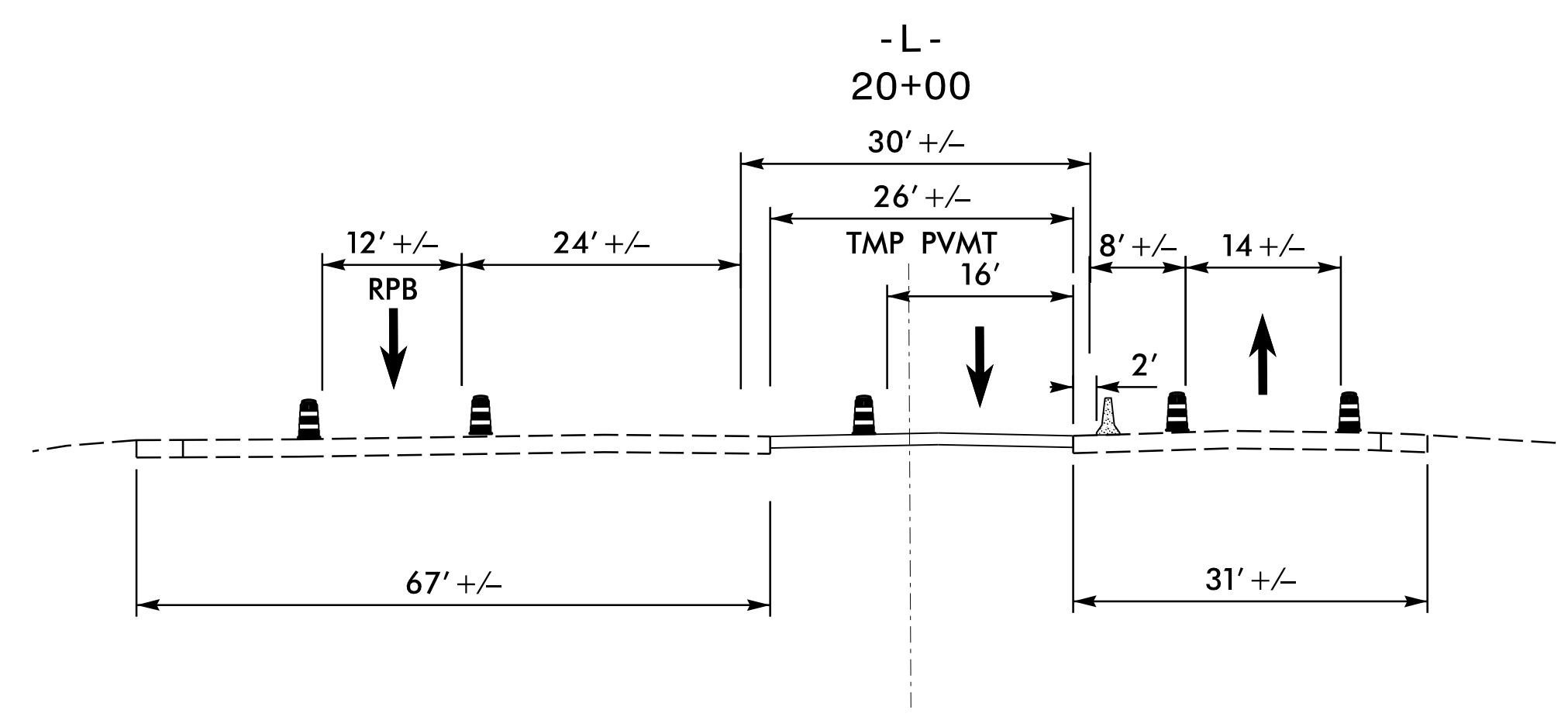
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 gmedlin


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 NC License NO.: F-0105

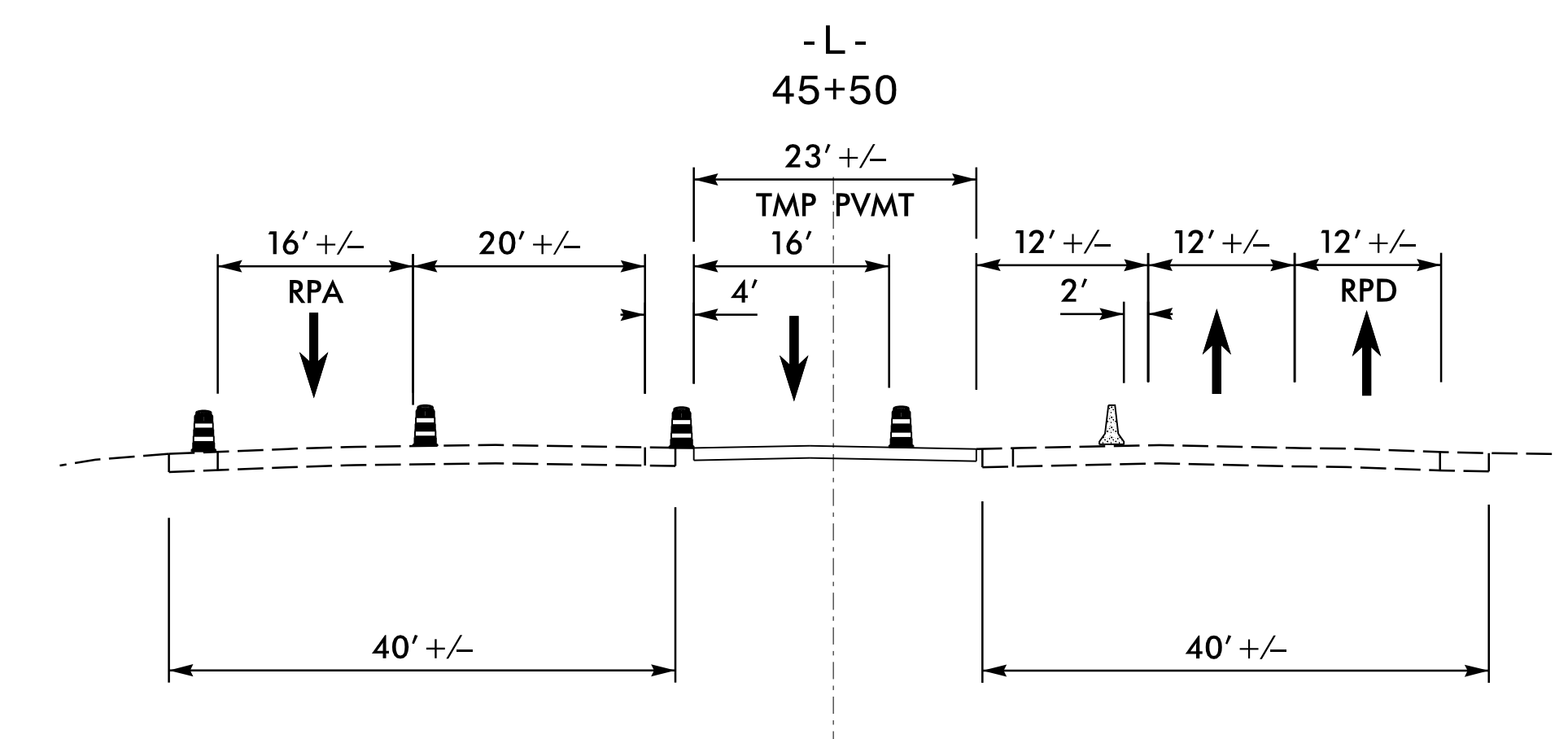
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 UNLESS ALL SIGNATURES COMPLETED**



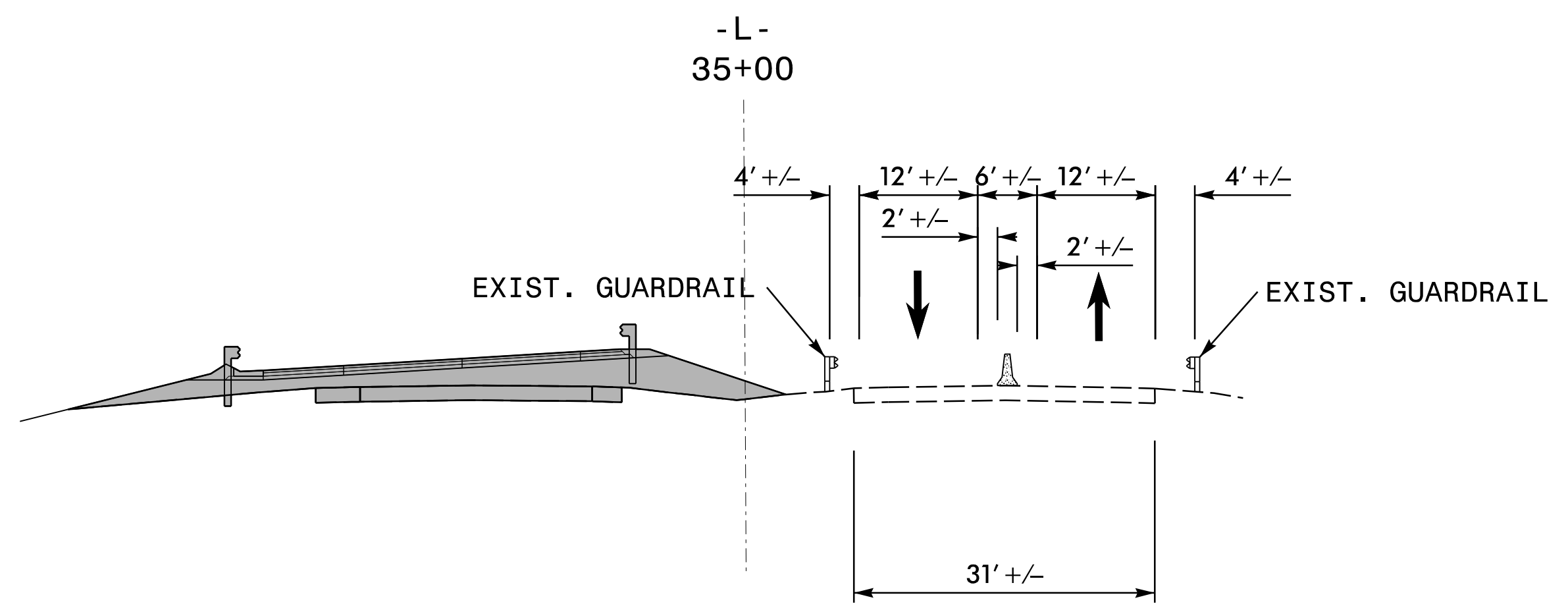
**SITE 1  
 PHASE 2 DETAILS  
 -L-**



SECTION A-A



SECTION C-C

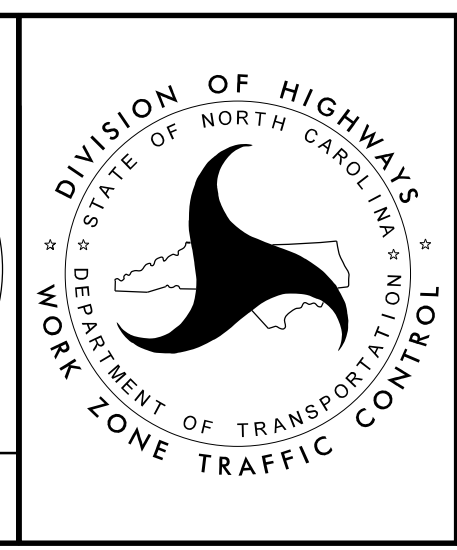


SECTION B-B

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 NC License NO.: F-0105

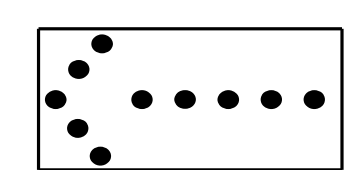
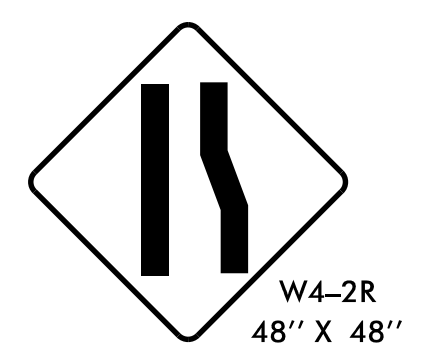
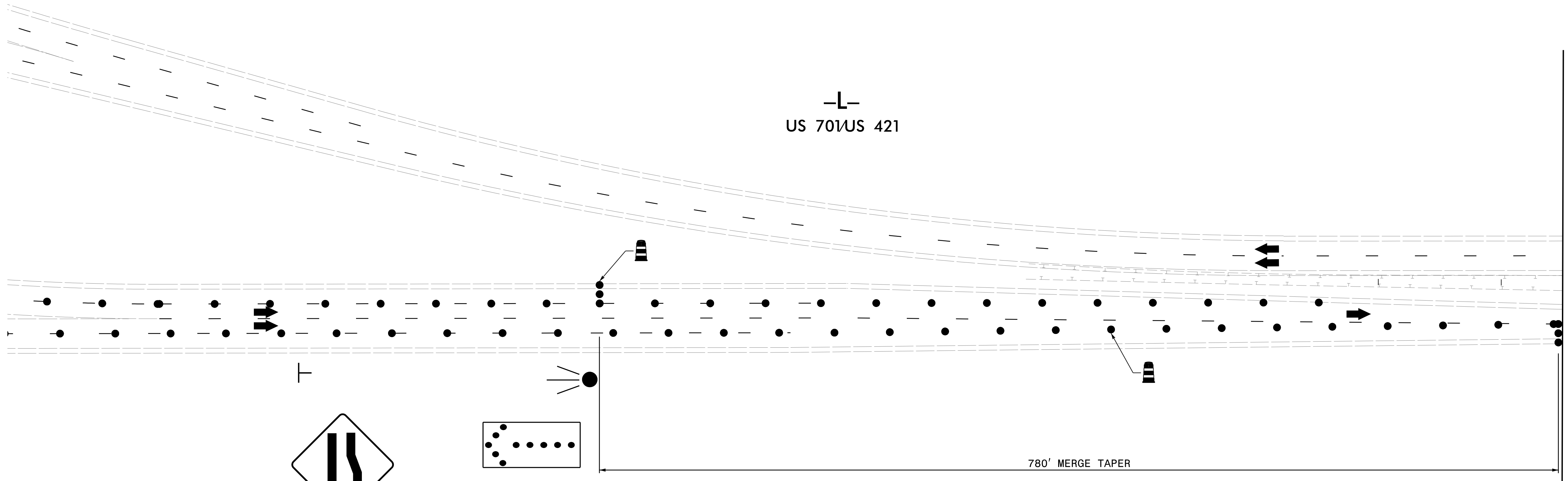
APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
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**SITE 1  
 PHASE 2  
 -L-  
 CROSS-SECTIONS**

NAD 83 NA 2011

-L-  
US 701 US 421



SEE TMP-4 FOR LANE CLOSURE DETAILS  
SEE RSD 1101.02 (4 OF 14) FOR LANE CLOSURE

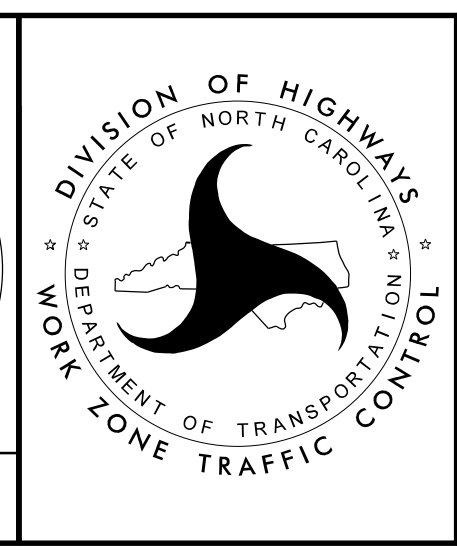
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gmedlin

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NC License NO.: F-0105

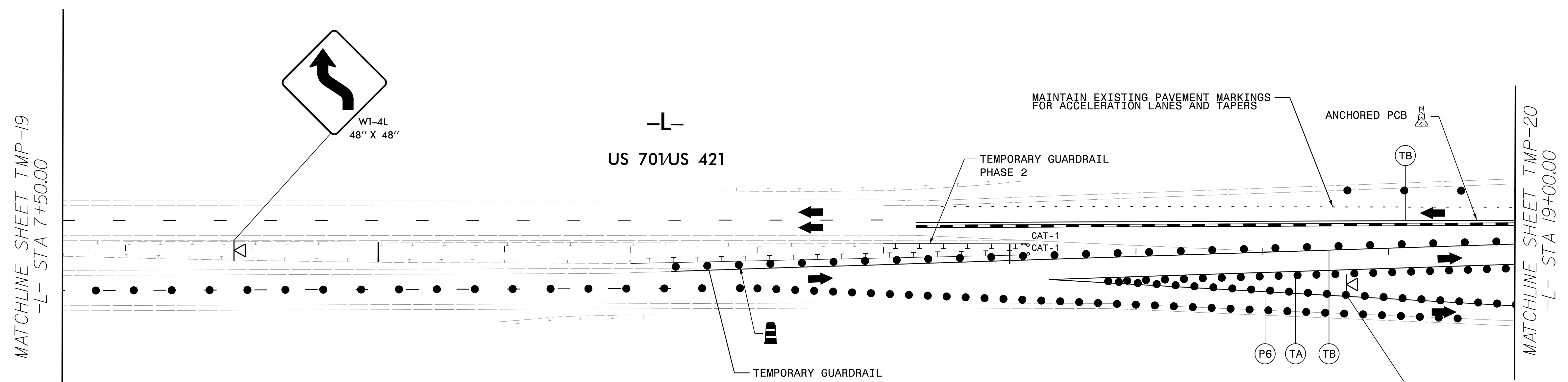
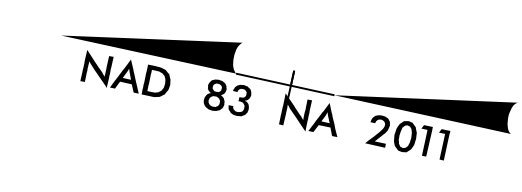
APPROVED: *Timothy R. Reid*  
DATE: 11/5/2019

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**SITE 1  
PHASE 3 DETAILS  
-L-**



SEE RSD 1101.02 (10 OF 14) FOR RAMP D LANE CLOSURE

11/5/2019 0:29:14 AM \\RA8522-07\CADD\NR2303E\TrafficControl\TCP\2303e\_tc\_tmp\_19.dgn gmedlin

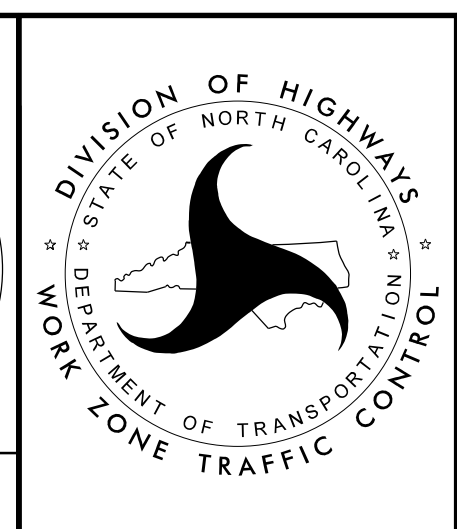
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 NC License NO.: F-0105

APPROVED: Timothy R. Reid  
DocuSigned by: Timothy R. Reid

DATE: 11/5/2019

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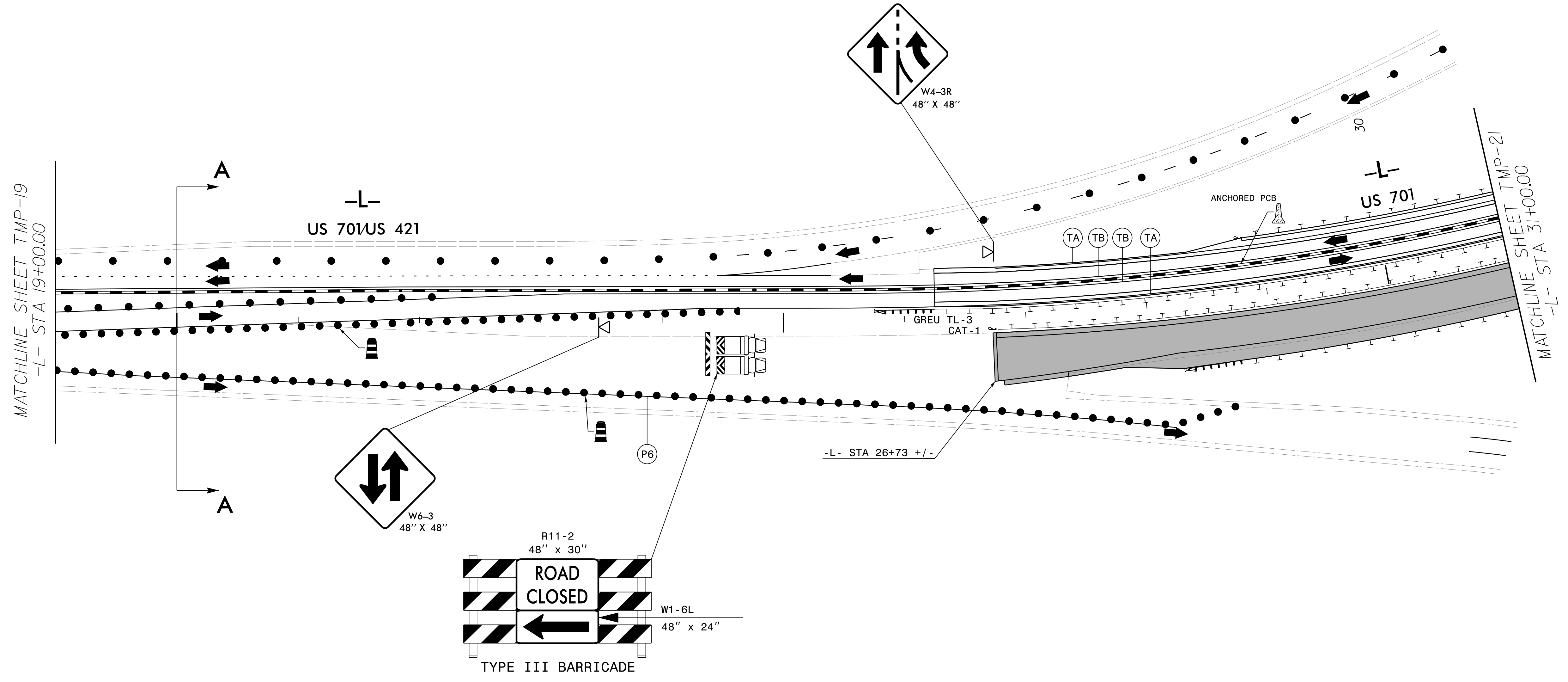
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



**SITE 1  
PHASE 3 DETAILS  
-L-**

SEE TMP-24 FOR -L- CROSS SECTION

NAD 83 NA 2011

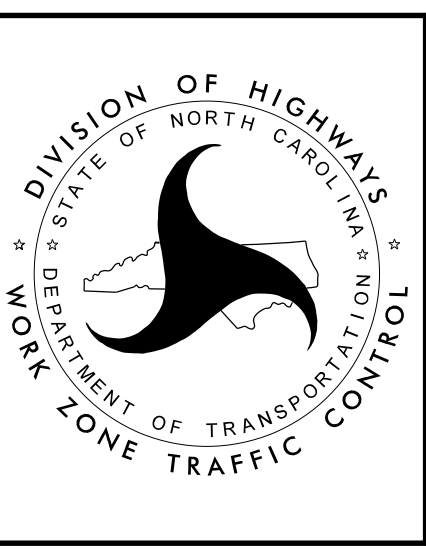


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PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

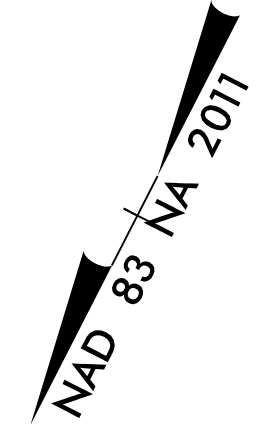
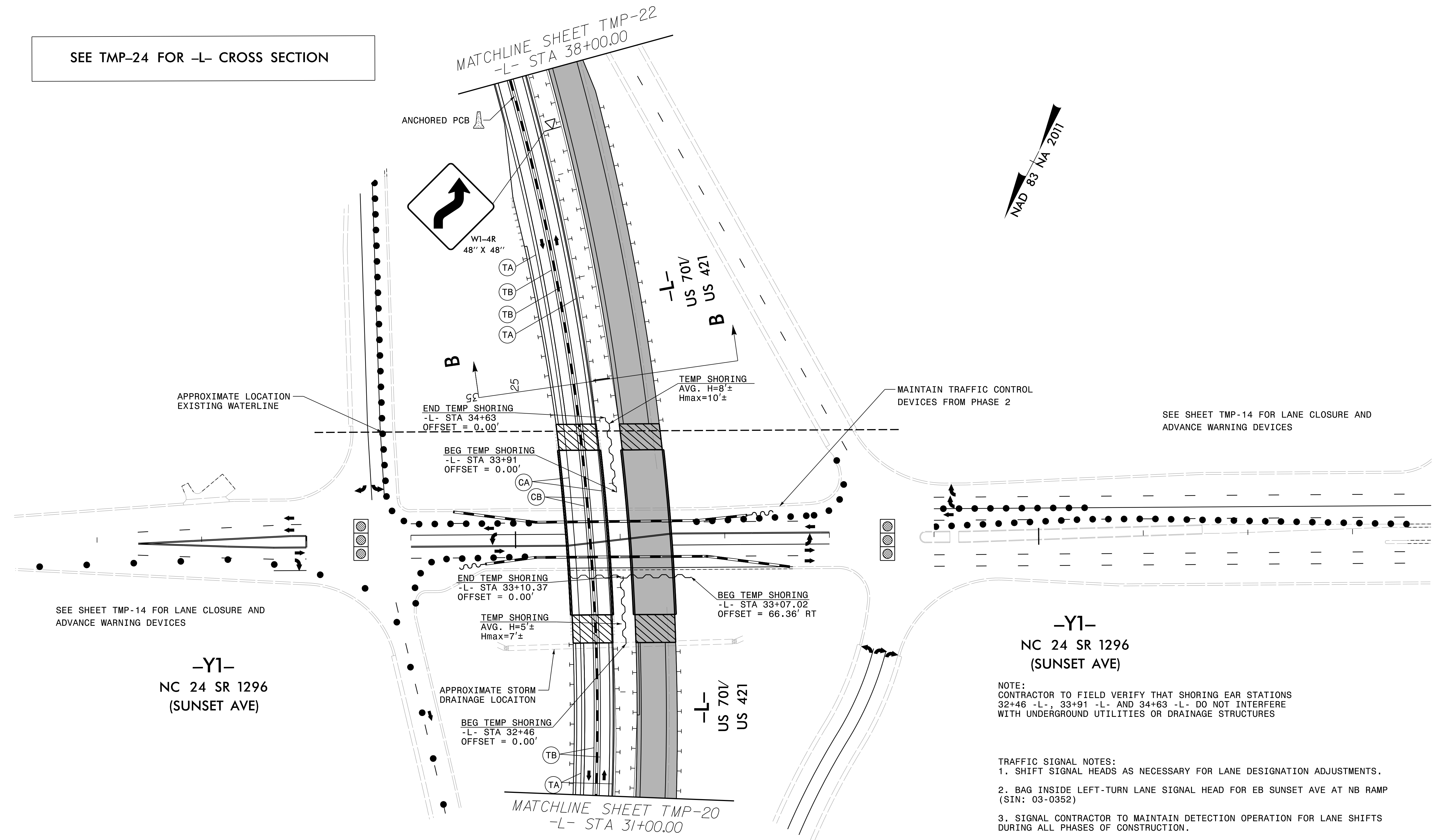
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**SITE 1  
 PHASE 3 DETAILS  
 -L-**

SEE TMP-24 FOR -L- CROSS SECTION



SEE SHEET TMP-14 FOR LANE CLOSURE AND ADVANCE WARNING DEVICES

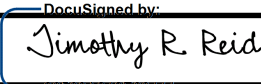
SEE SHEET TMP-14 FOR LANE CLOSURE AND ADVANCE WARNING DEVICES

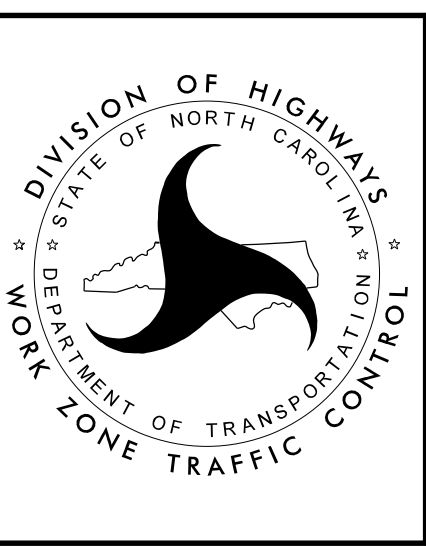
NOTE:  
CONTRACTOR TO FIELD VERIFY THAT SHORING EAR STATIONS 32+46 -L-, 33+91 -L- AND 34+63 -L- DO NOT INTERFERE WITH UNDERGROUND UTILITIES OR DRAINAGE STRUCTURES

- TRAFFIC SIGNAL NOTES:
1. SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS.
  2. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352)
  3. SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

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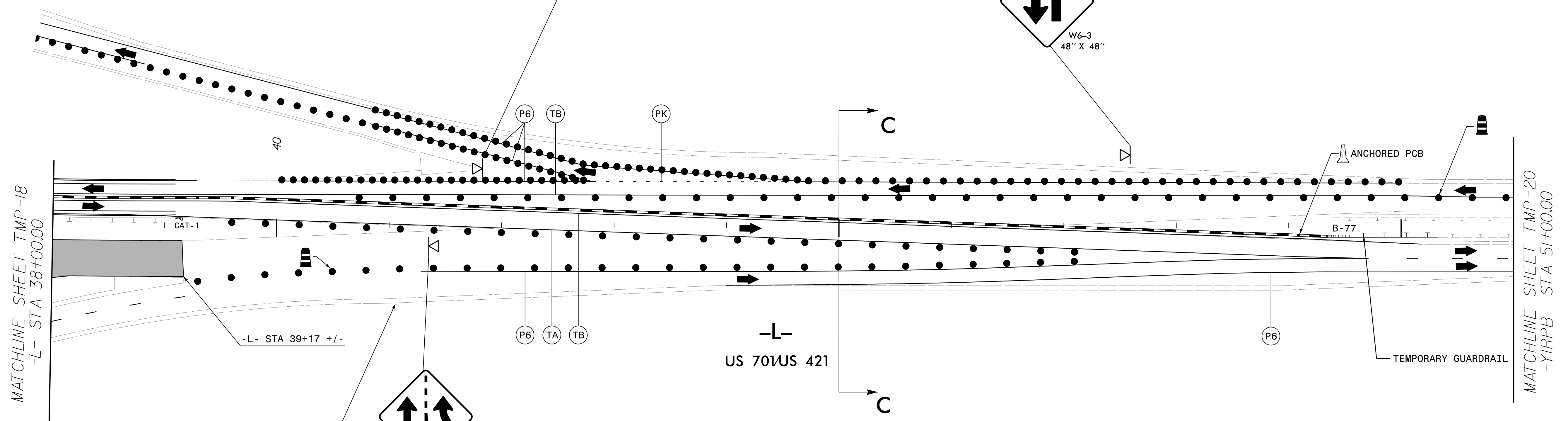
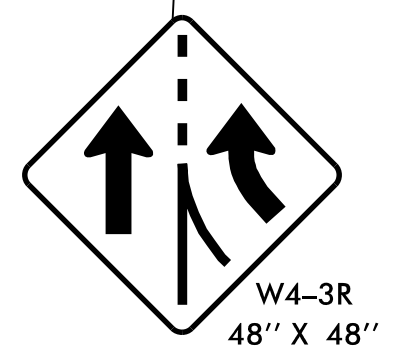
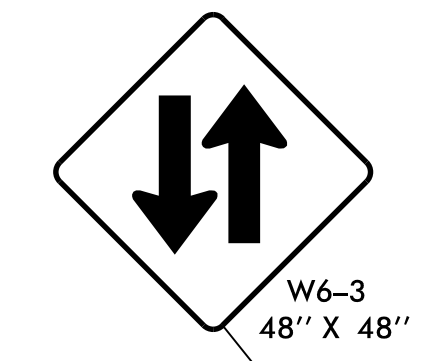
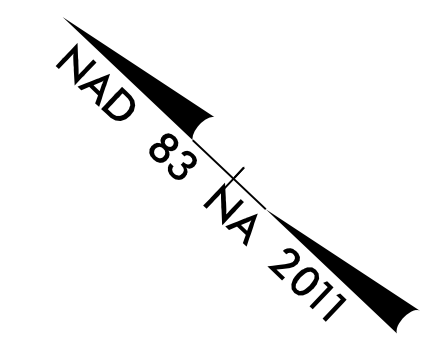
**moffatt & nichol**  
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 RALEIGH, NORTH CAROLINA 27609  
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 NC License NO.: F-0105

APPROVED:   
 DATE: 11/5/2019  
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**SITE 1  
 PHASE 3 DETAILS  
 -L-**

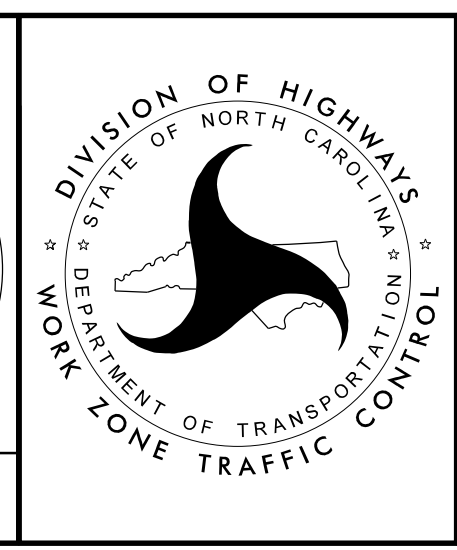
SEE TMP-24 FOR -L- CROSS SECTION



11/5/2019  
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gmedlin

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 NC License NO.: F-0105

APPROVED: Timothy R. Reid  
 DATE: 11/5/2019  
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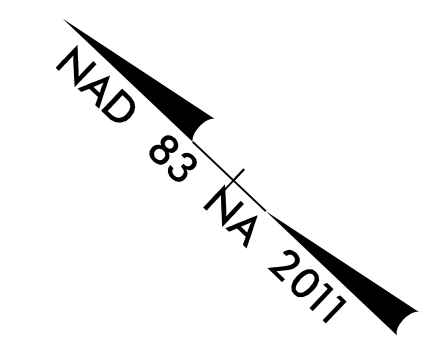


**DIVISION OF HIGHWAYS**  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

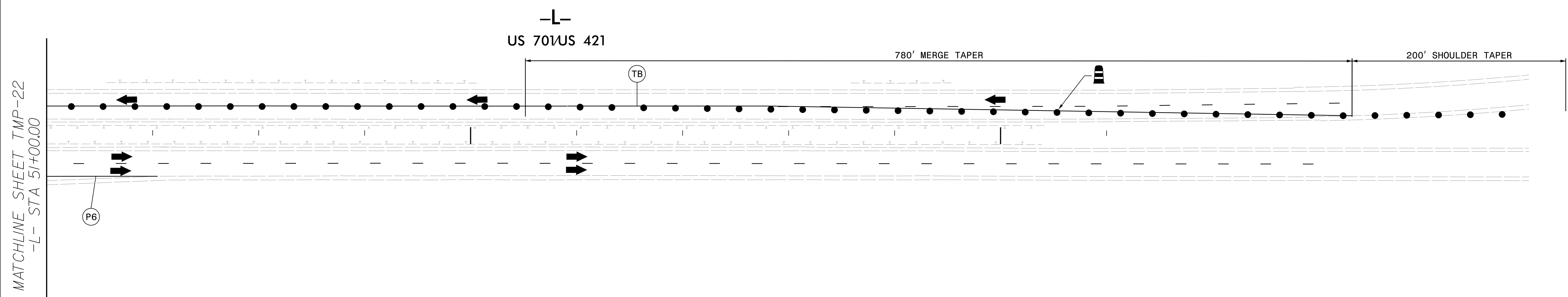
SITE 1  
 PHASE 3 DETAILS  
 -L-



PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-23



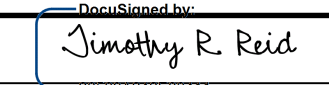
SEE RSD 1101.02 (4 OF 10)  
FOR ADVANCE WARNING DEVICES



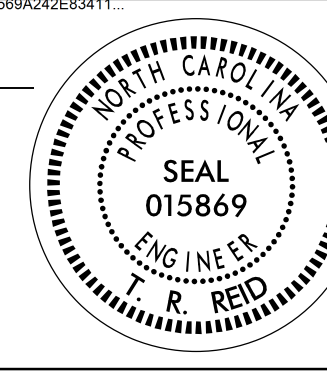
MATCHLINE SHEET TMP-22  
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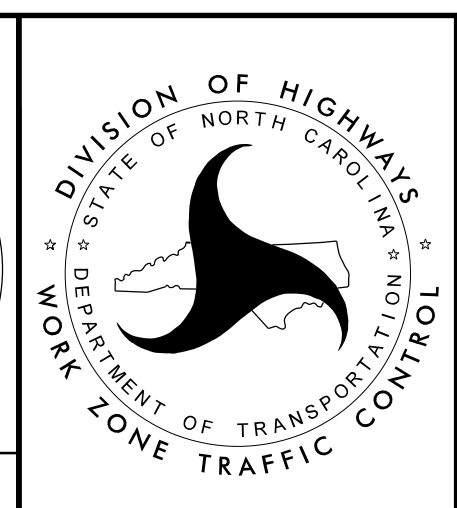
**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
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NC License NO.: F-0105

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DATE: 11/5/2019

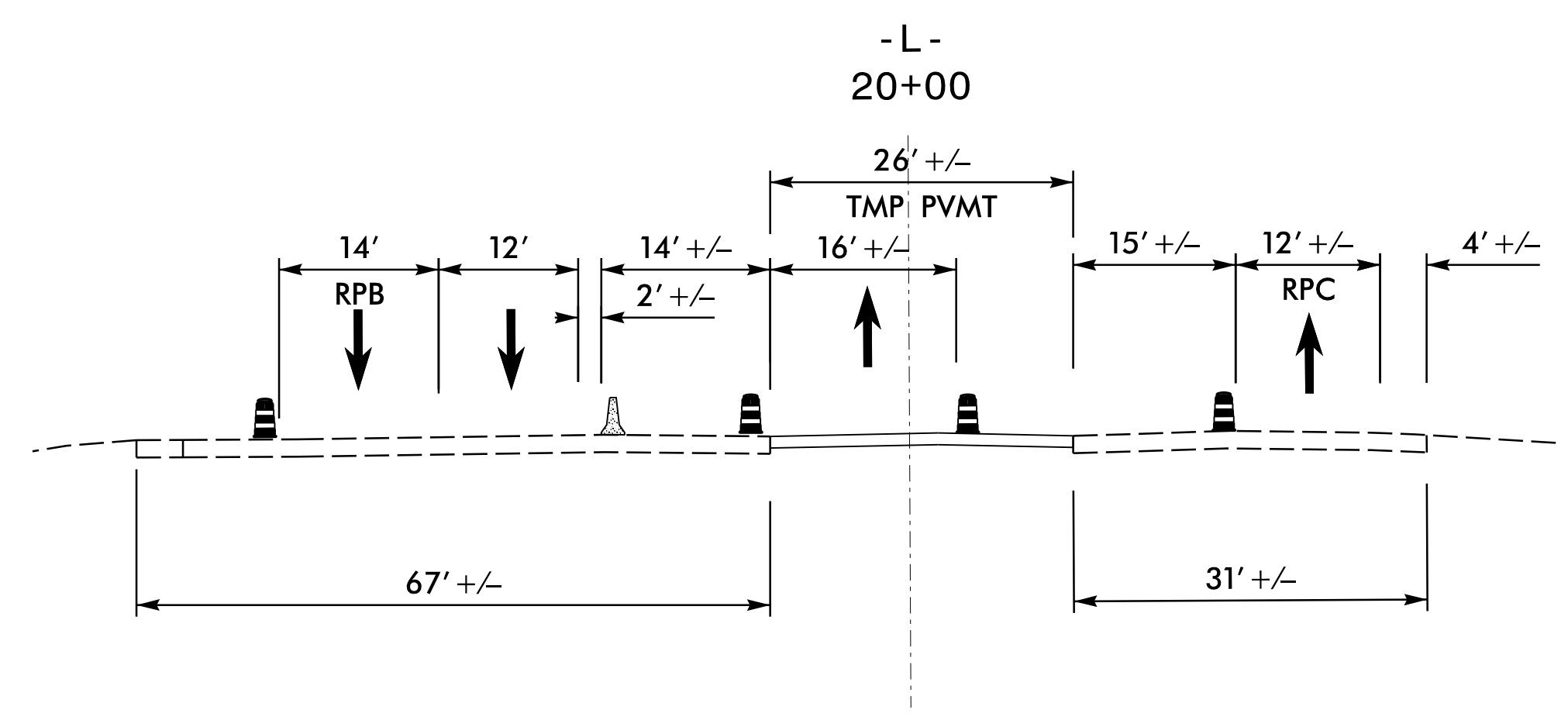
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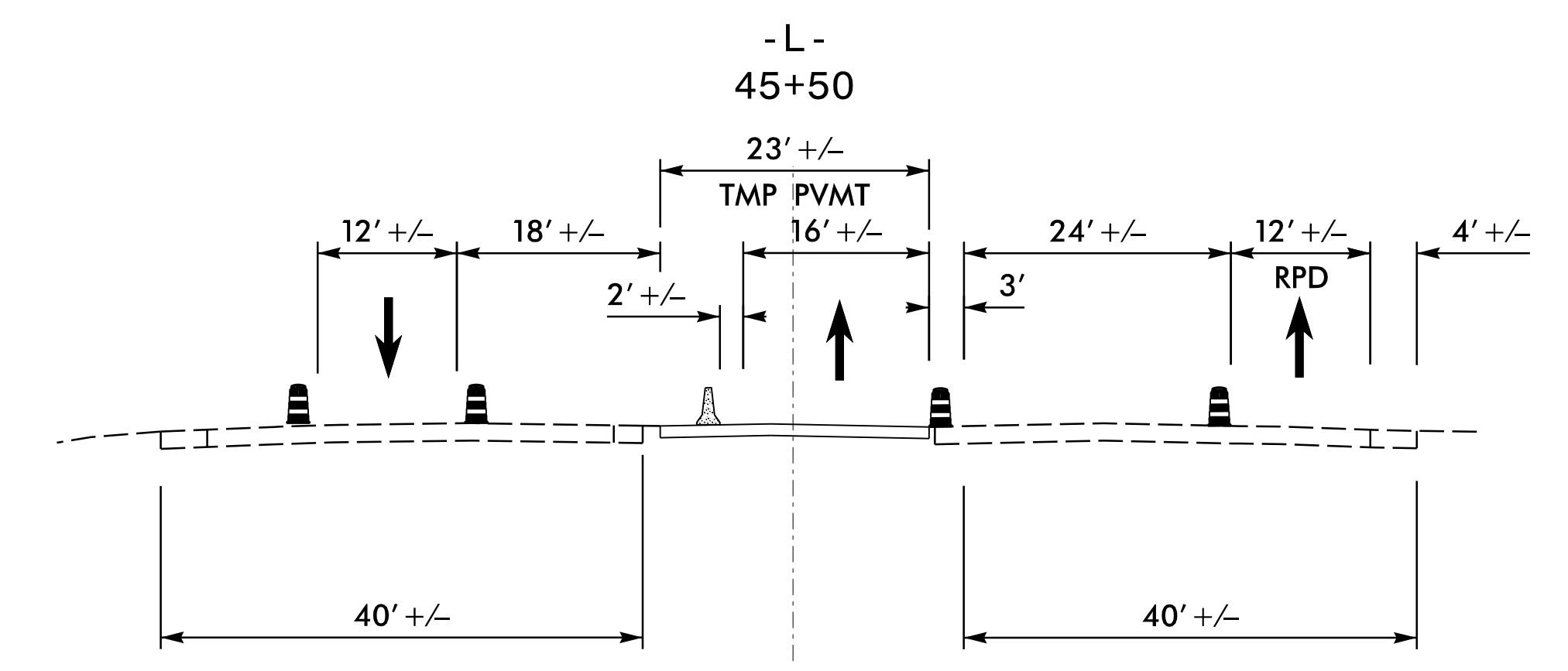
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



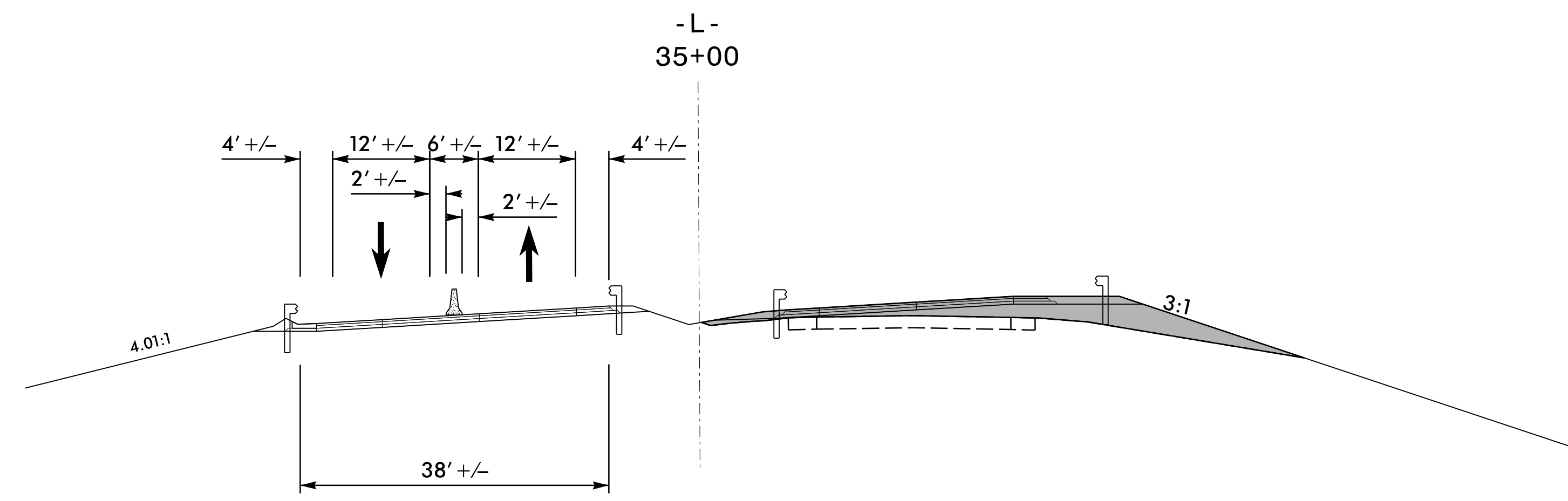
**SITE 1  
PHASE 3 DETAILS  
-L-**



SECTION A-A

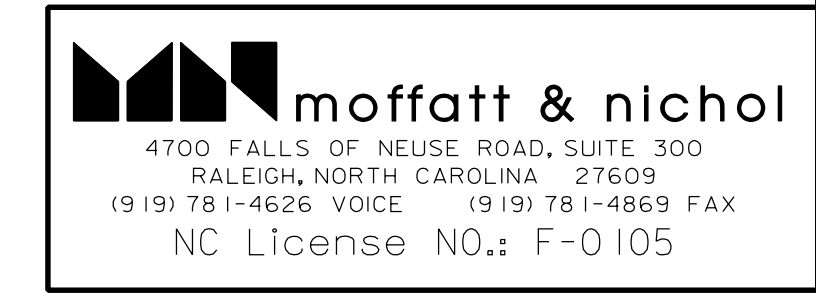


SECTION C-C

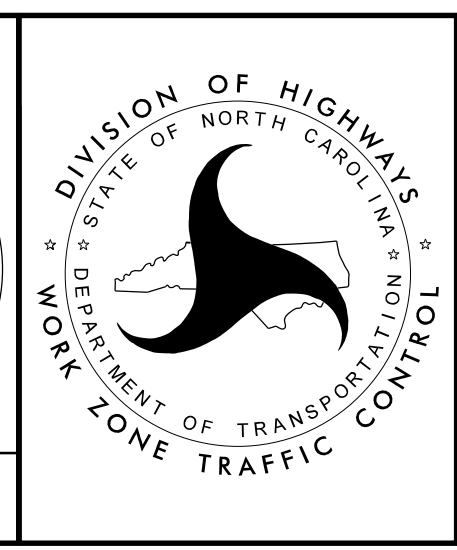


SECTION B-B

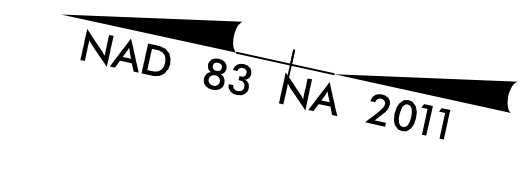
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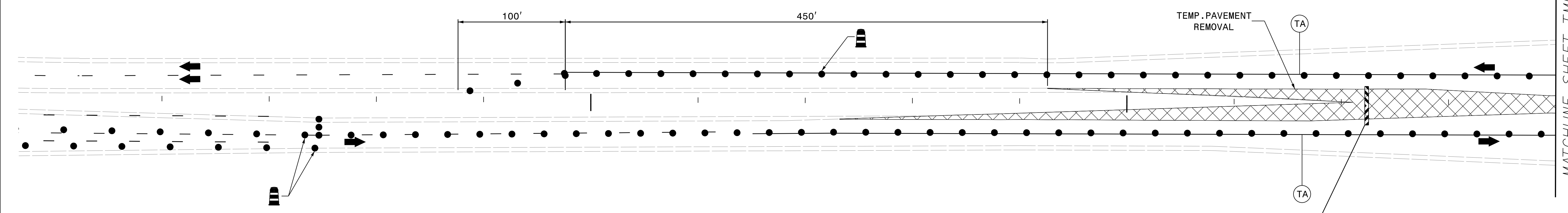
APPROVED: Timothy R. Reid  
 DATE: 11/5/2019  
 SEAL  
 DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



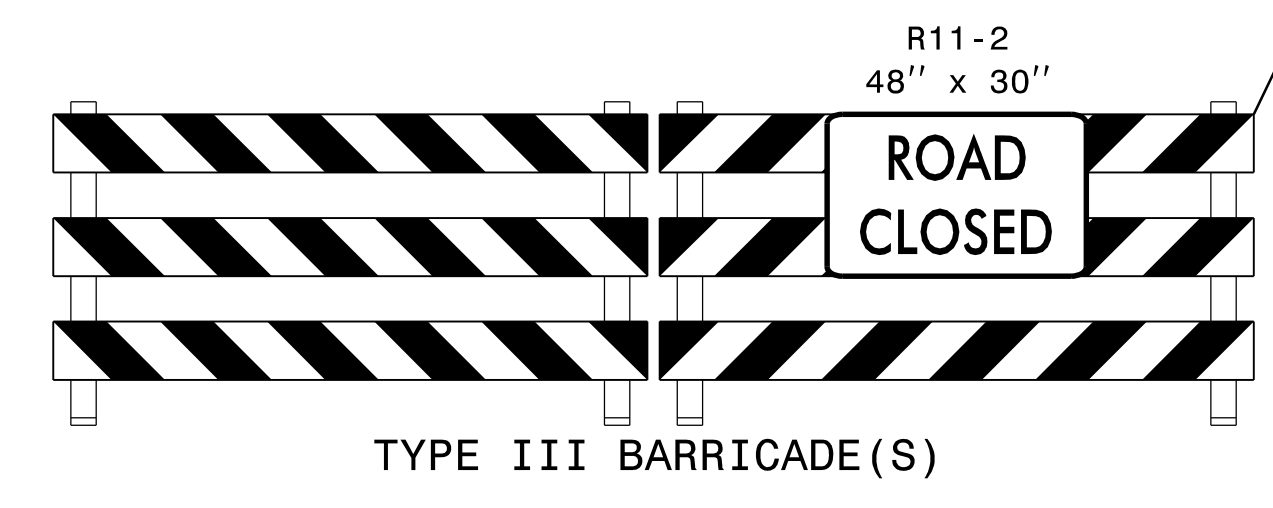
SITE 1  
 PHASE 3  
 -L-  
 CROSS-SECTIONS



-L-  
US 70/US 421

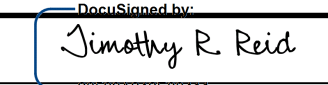


SEE SHEETS TMP-4 AND TMP-5 FOR LANE CLOSURE AND DEVICES

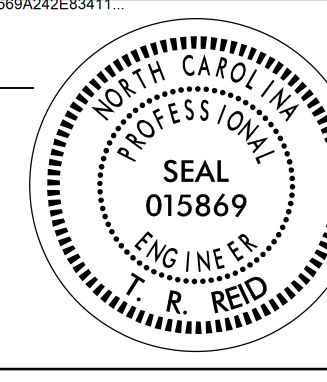


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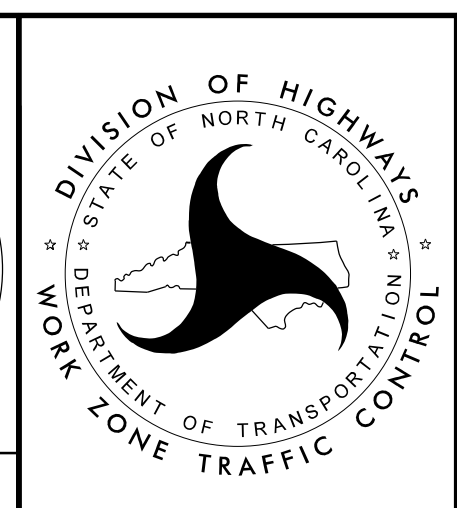
**moffatt & nichol**  
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RALEIGH, NORTH CAROLINA 27609  
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NC License NO.: F-0105

APPROVED:   
DATE: 11/5/2019

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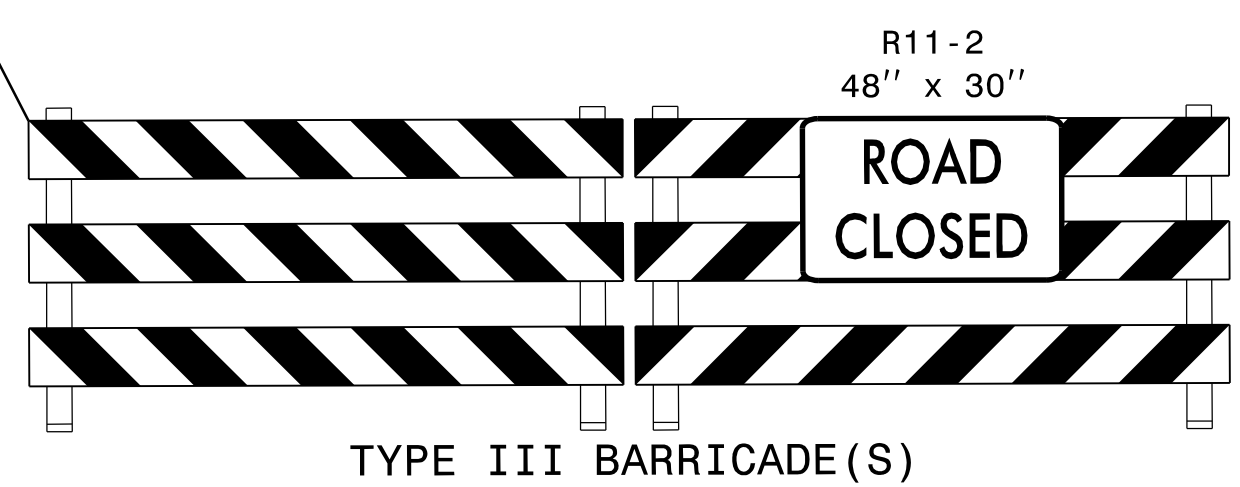
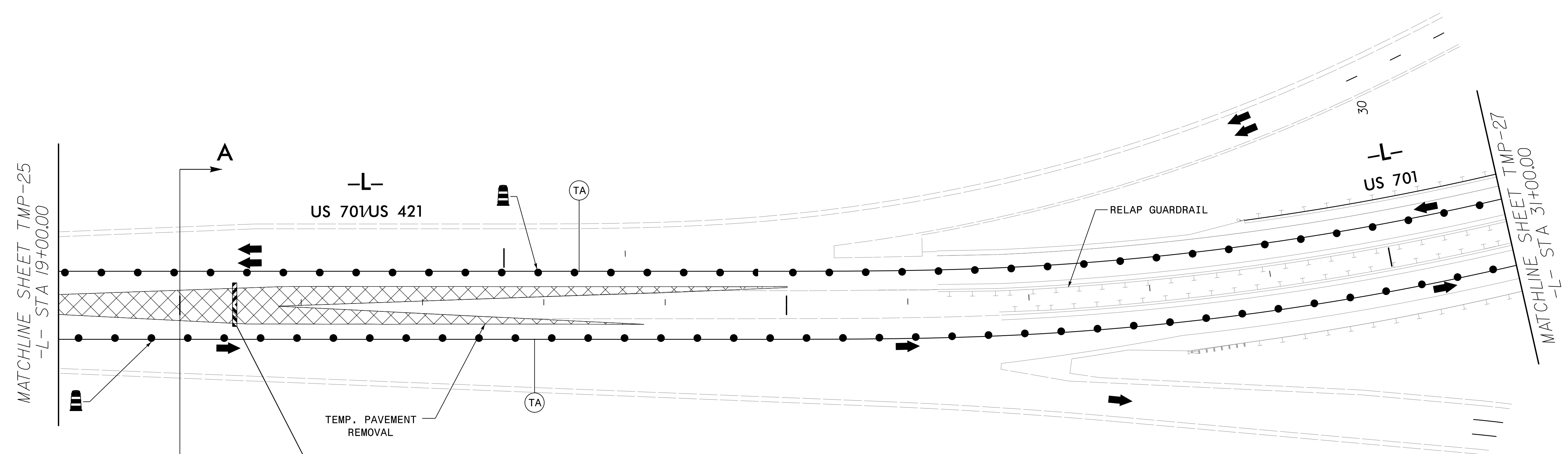
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**SITE 1  
PHASE 4 DETAILS  
-L-**

SEE TMP-30 FOR -L- CROSS SECTION

NAD 83 NA 2011



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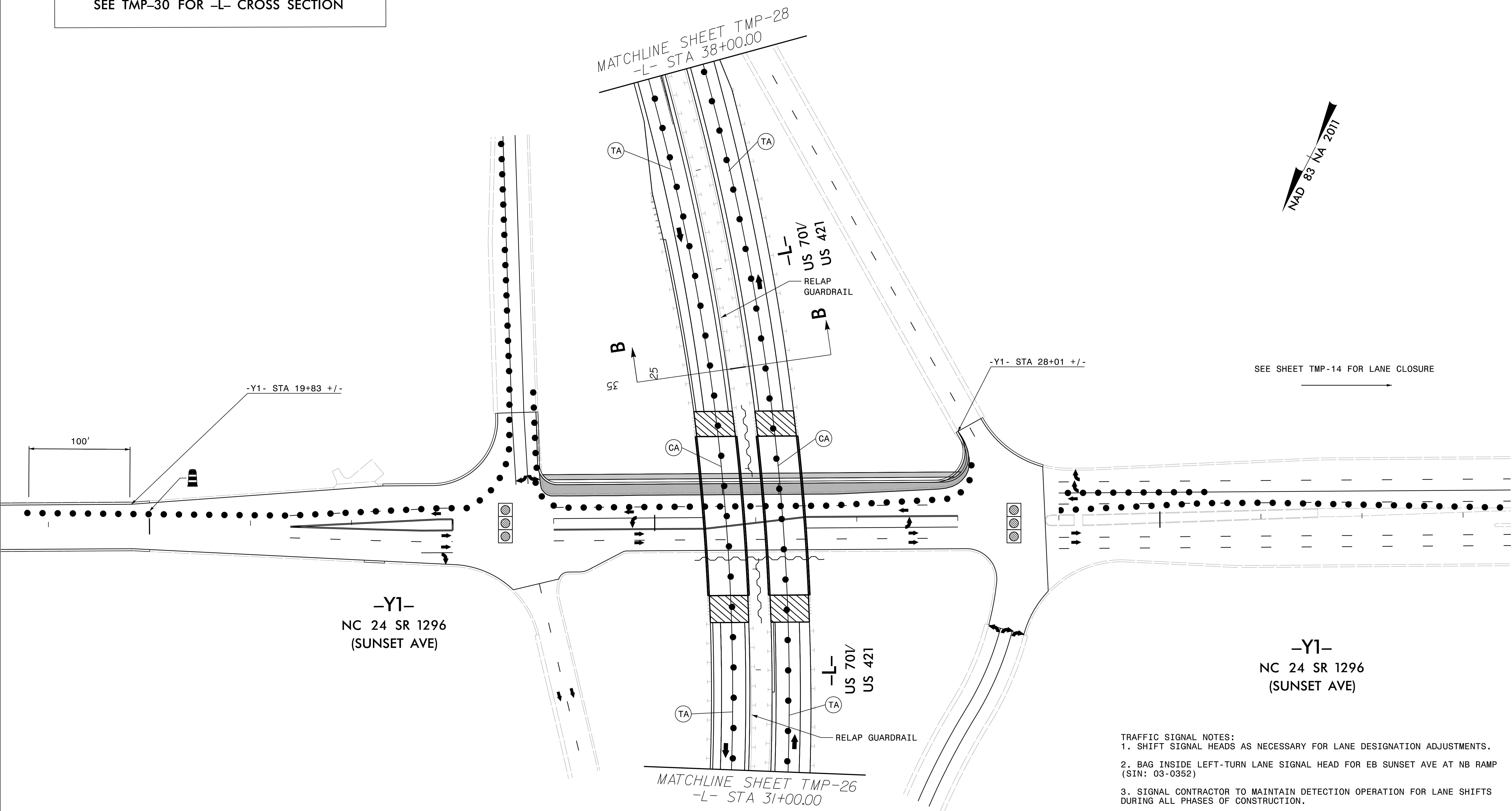
APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
 DOCUMENT NOT CONSIDERED FINAL  
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**SITE 1**  
**PHASE 4 DETAILS**  
 -L-

PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-27

SEE TMP-30 FOR -L- CROSS SECTION



SEE SHEET TMP-14 FOR LANE CLOSURE

- TRAFFIC SIGNAL NOTES:
1. SHIFT SIGNAL HEADS AS NECESSARY FOR LANE DESIGNATION ADJUSTMENTS.
  2. BAG INSIDE LEFT-TURN LANE SIGNAL HEAD FOR EB SUNSET AVE AT NB RAMP (SIN: 03-0352)
  3. SIGNAL CONTRACTOR TO MAINTAIN DETECTION OPERATION FOR LANE SHIFTS DURING ALL PHASES OF CONSTRUCTION.

11/5/2019 0:29:14 AM \\RA8522-07\CADD\NR2303E\TrafficControl\CPV\2303e\_fc\_tmp\_27.dgn gmedlin

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

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 NC License NO.: F-0105

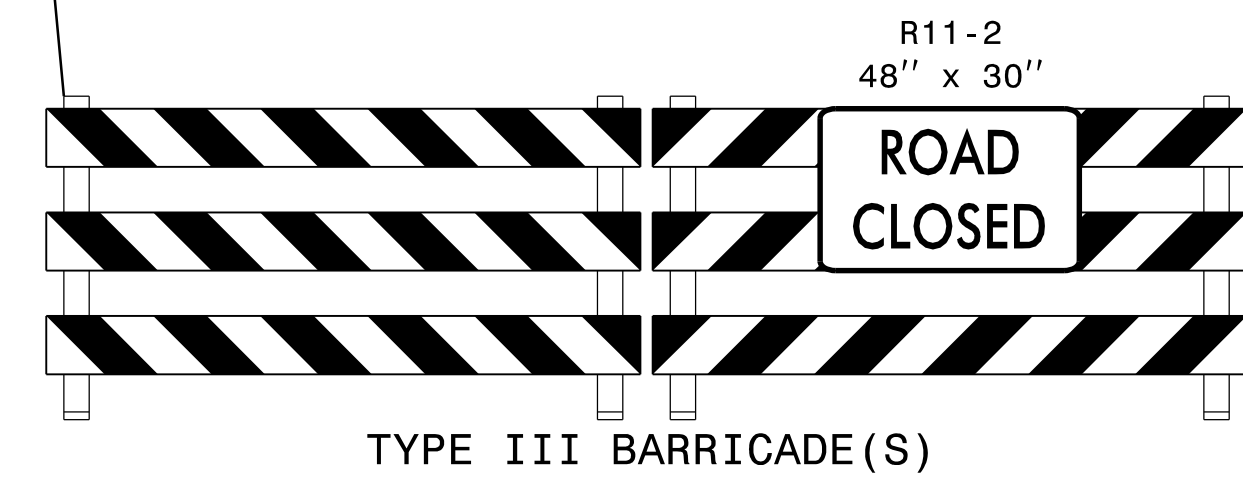
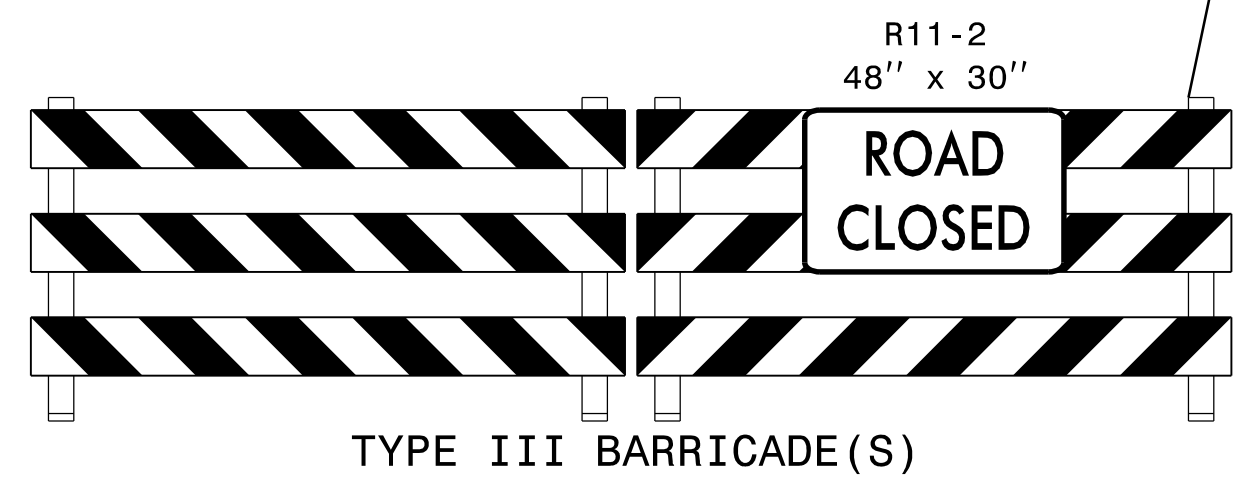
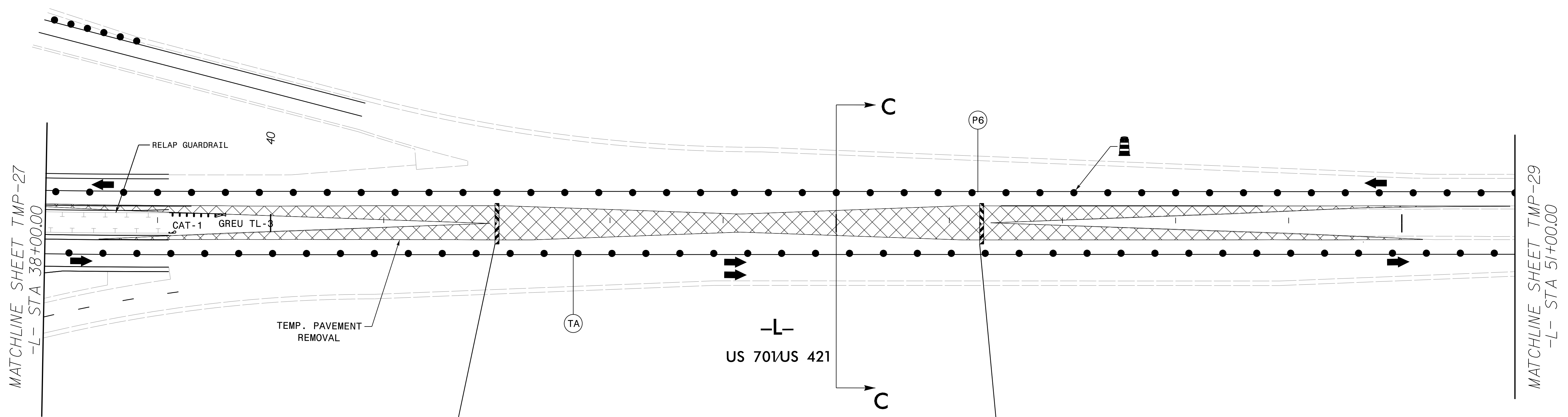
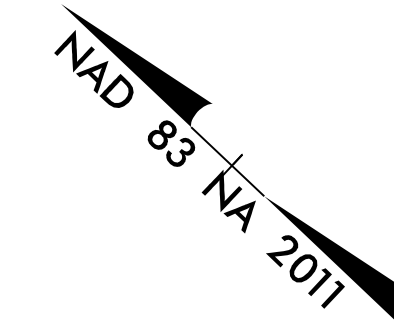
APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
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**STATE OF NORTH CAROLINA**  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

**SITE 1  
 PHASE 4 DETAILS  
 -L-**

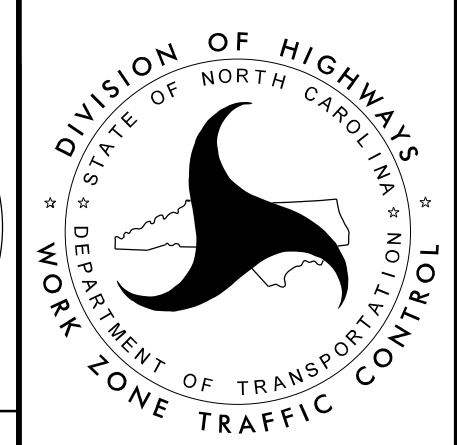
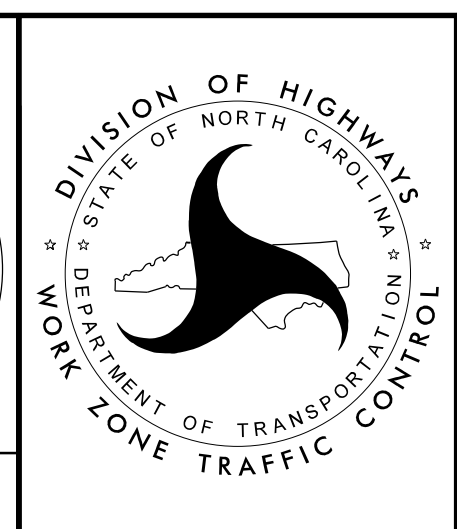
SEE TMP-30 FOR -L- CROSS SECTION



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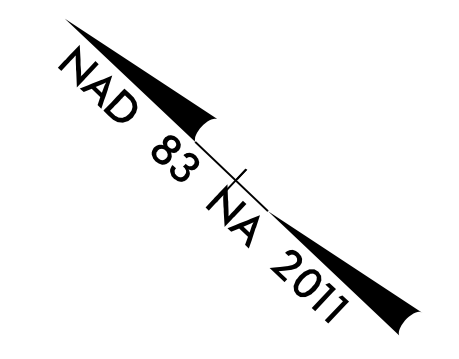
**moffatt & nichol**  
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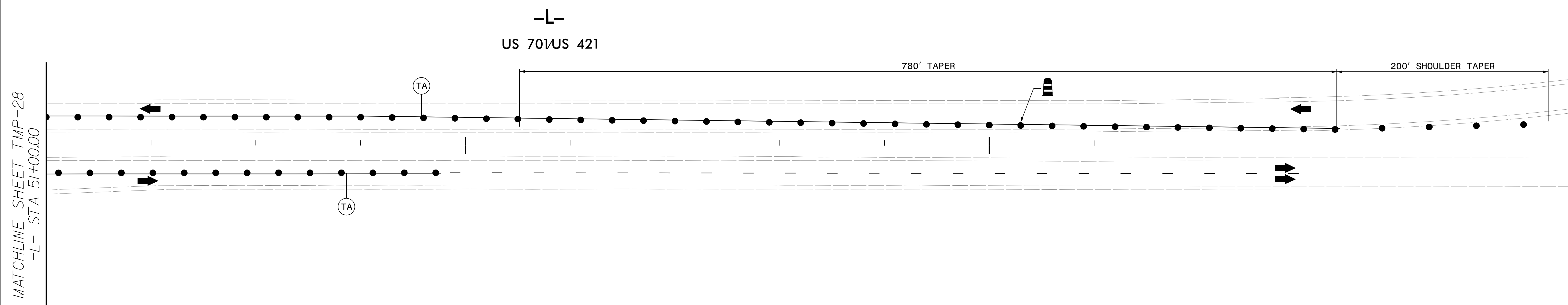


SITE 1  
 PHASE 4 DETAILS  
 -L-

PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-29

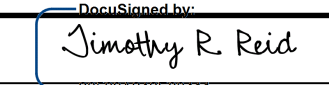


SEE RSD 1101.02 (4 OF 10)  
FOR ADVANCE WARNING DEVICES

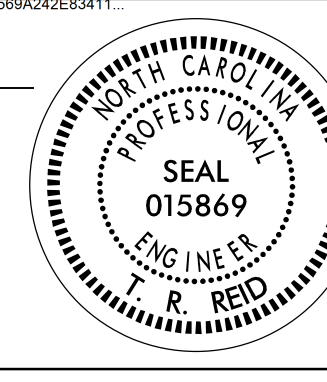


11/5/2019  
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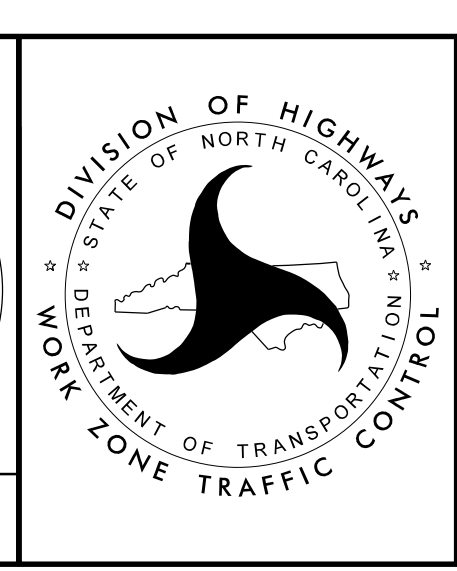
**moffatt & nichol**  
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DATE: 11/5/2019

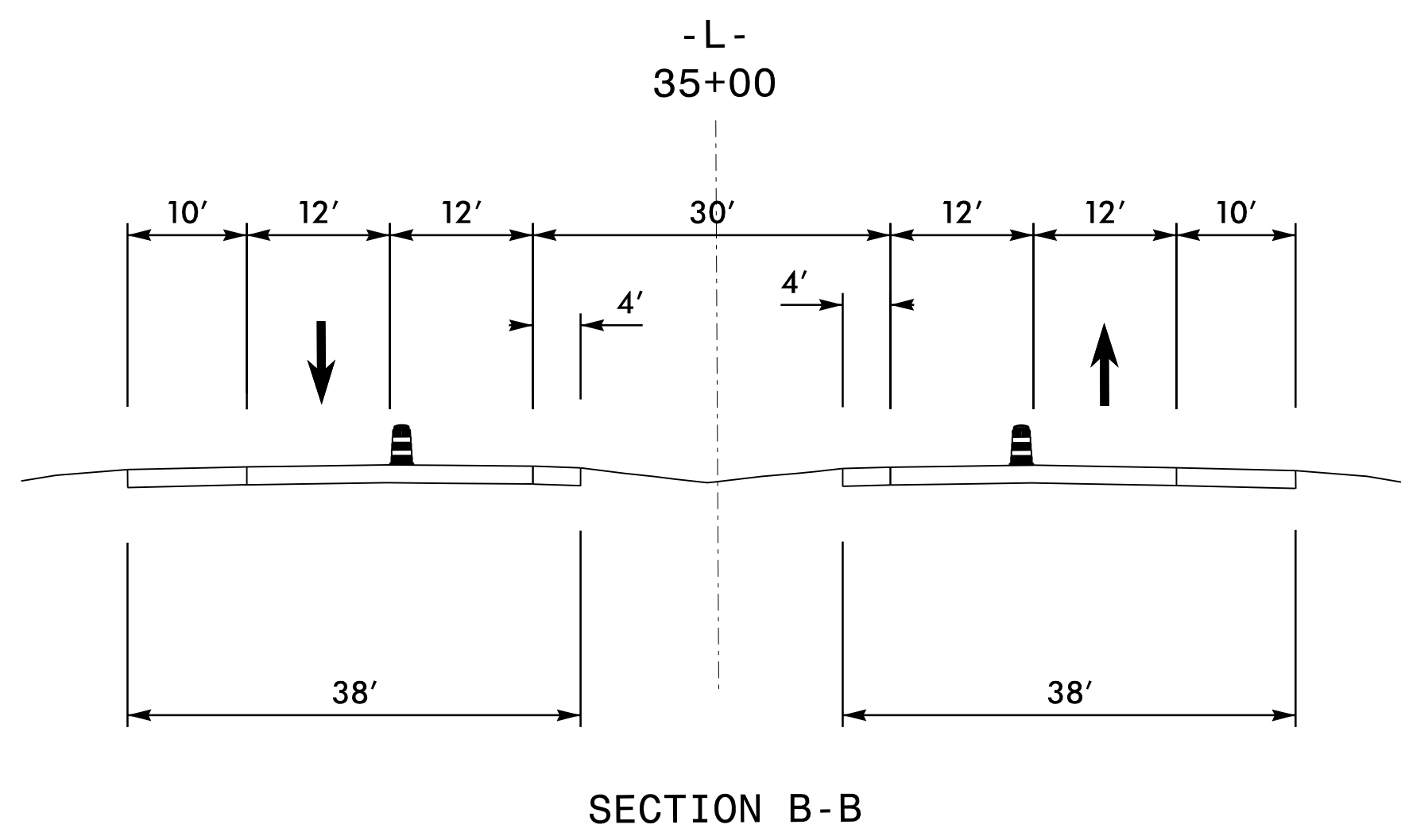
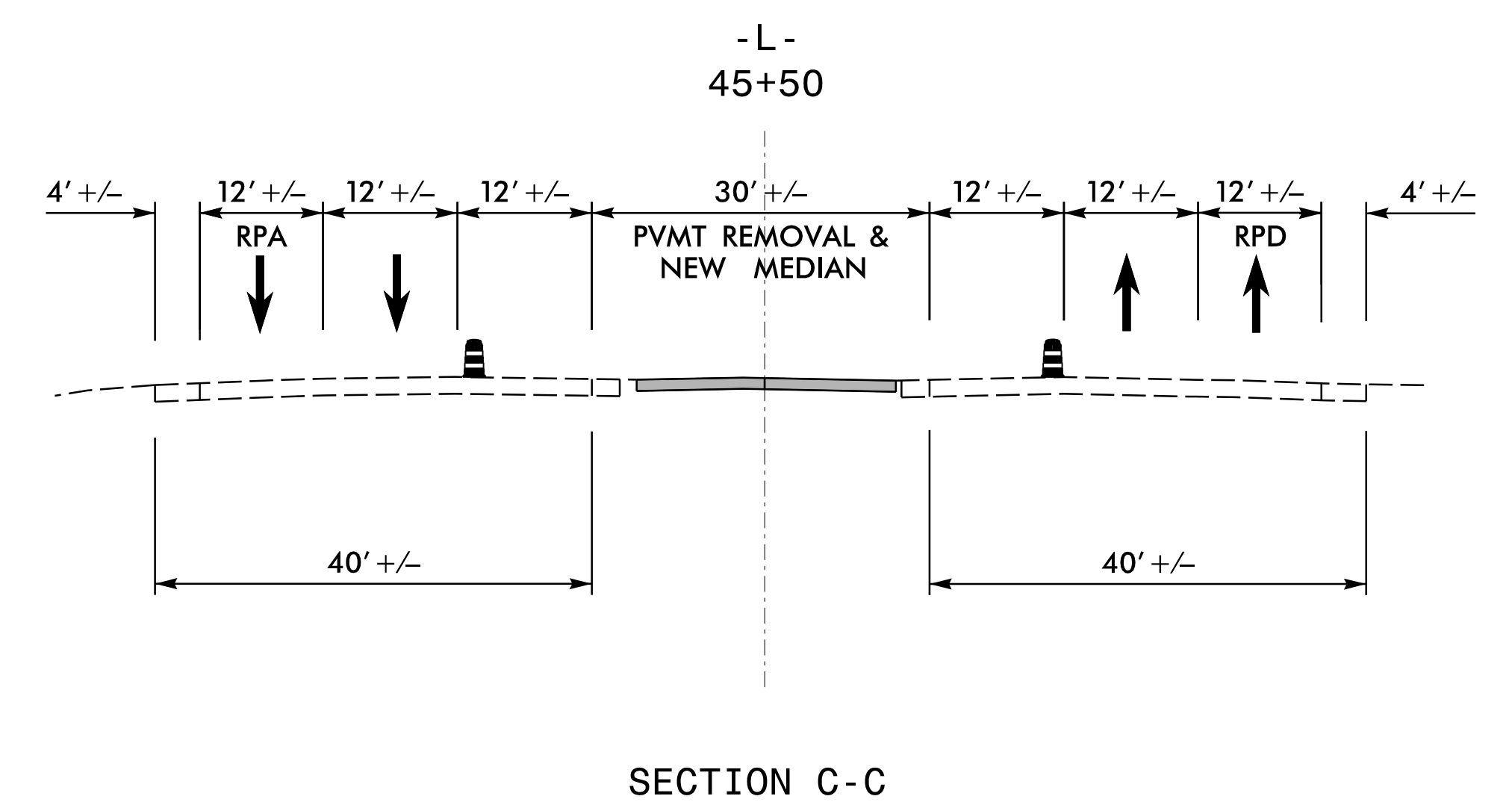
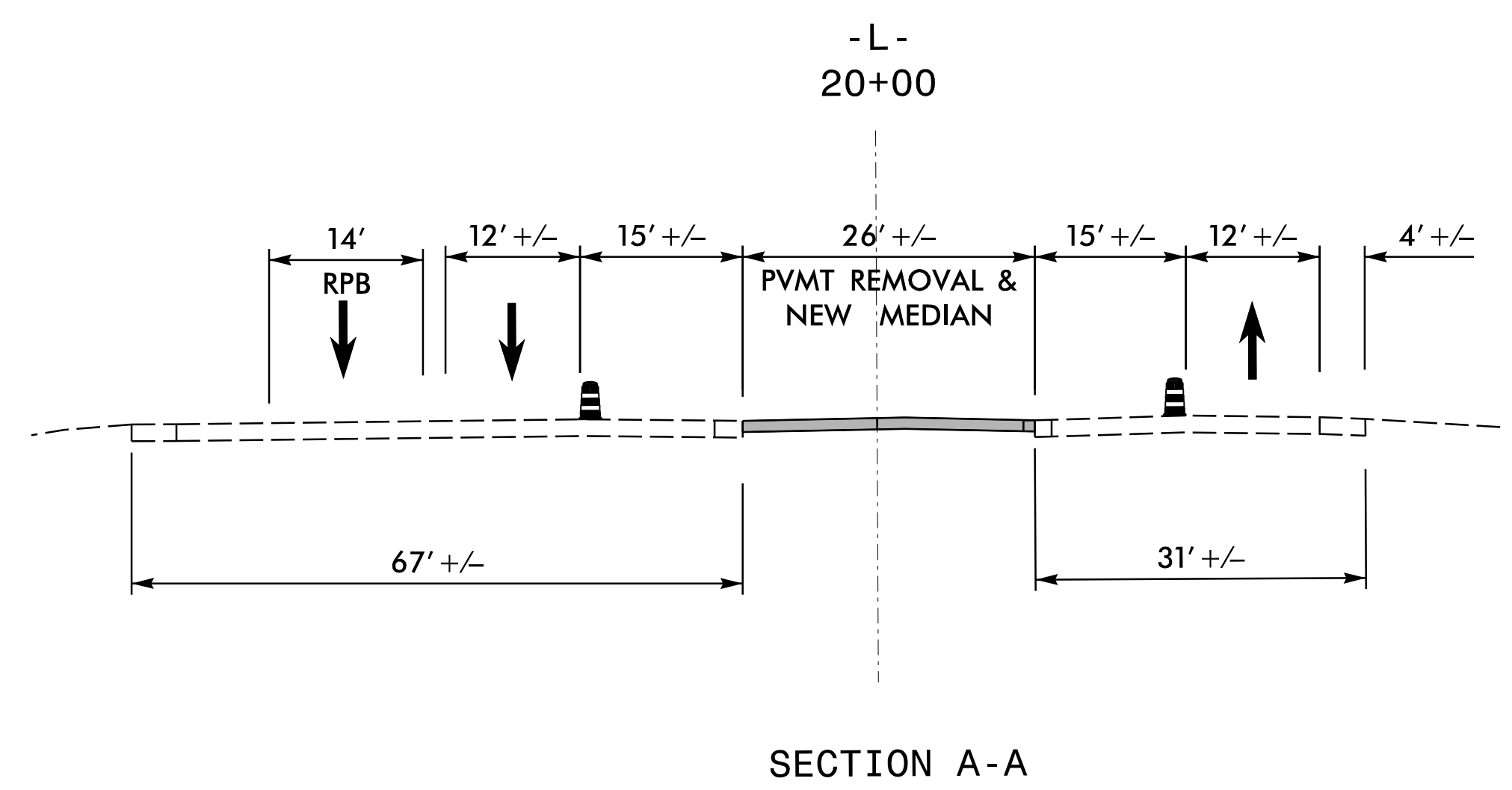
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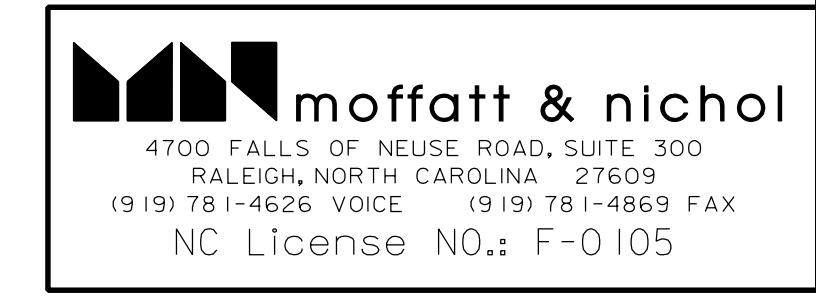
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**SITE 1  
PHASE 4 DETAILS  
-L-**



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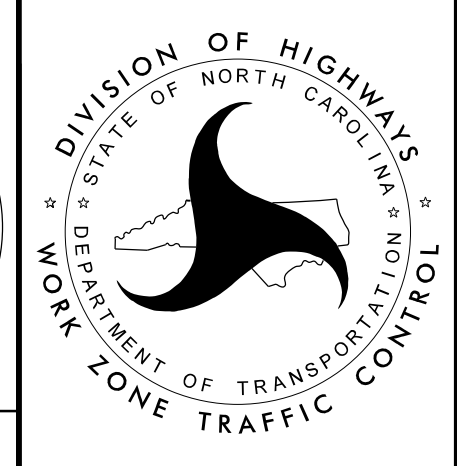
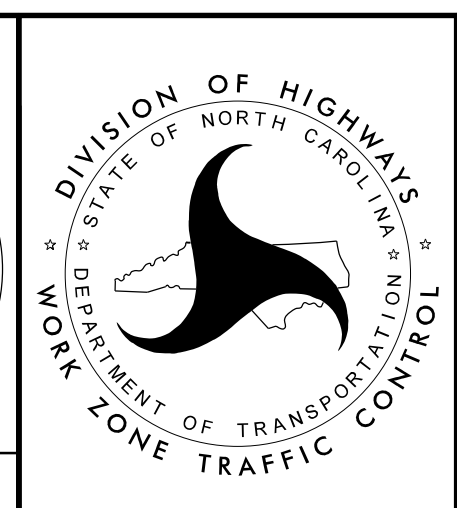


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DATE: 11/5/2019

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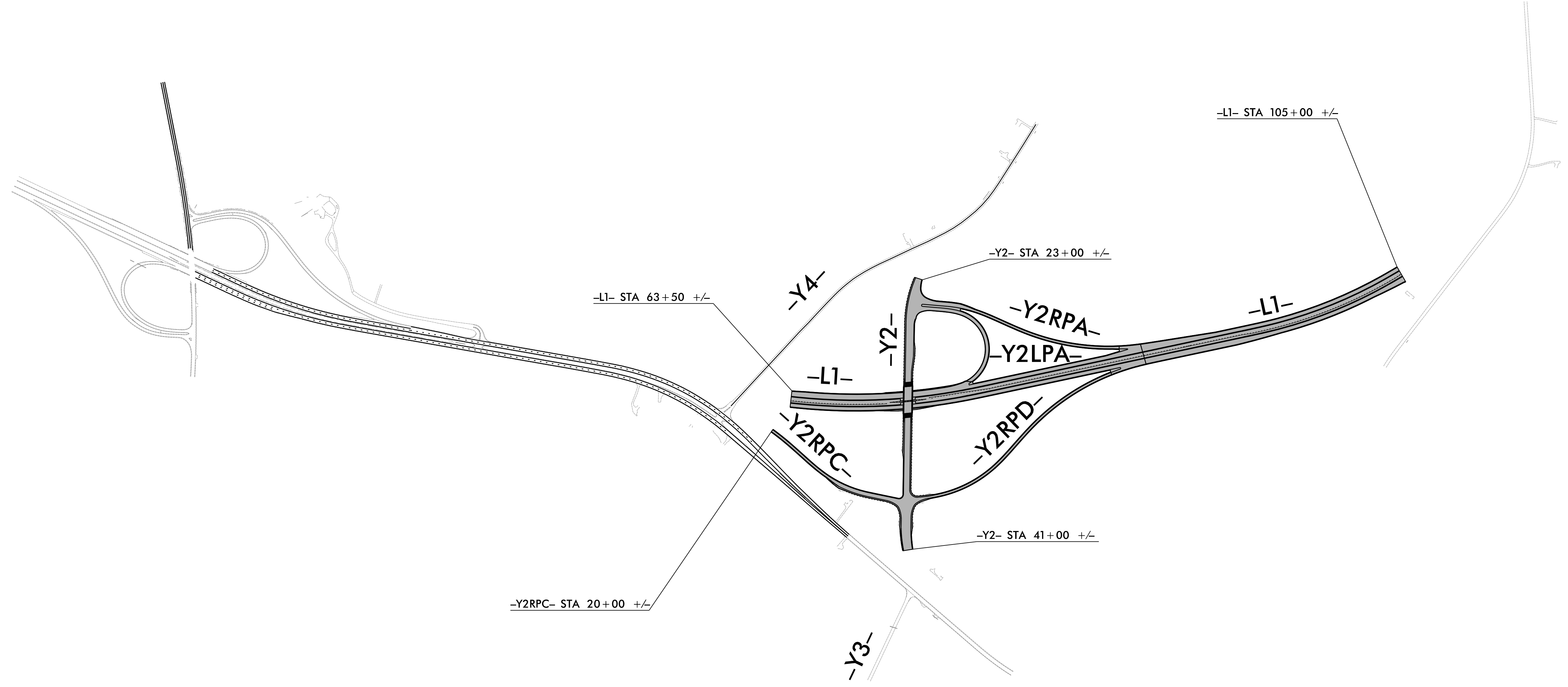
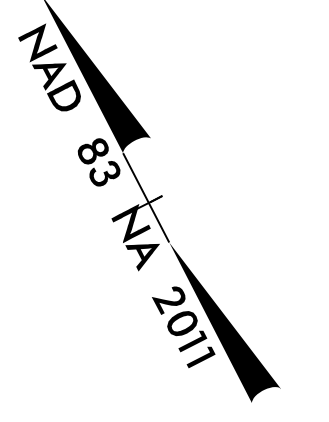
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SITE 1  
PHASE 4  
-L-  
CROSS-SECTIONS



PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-31



11/5/2019  
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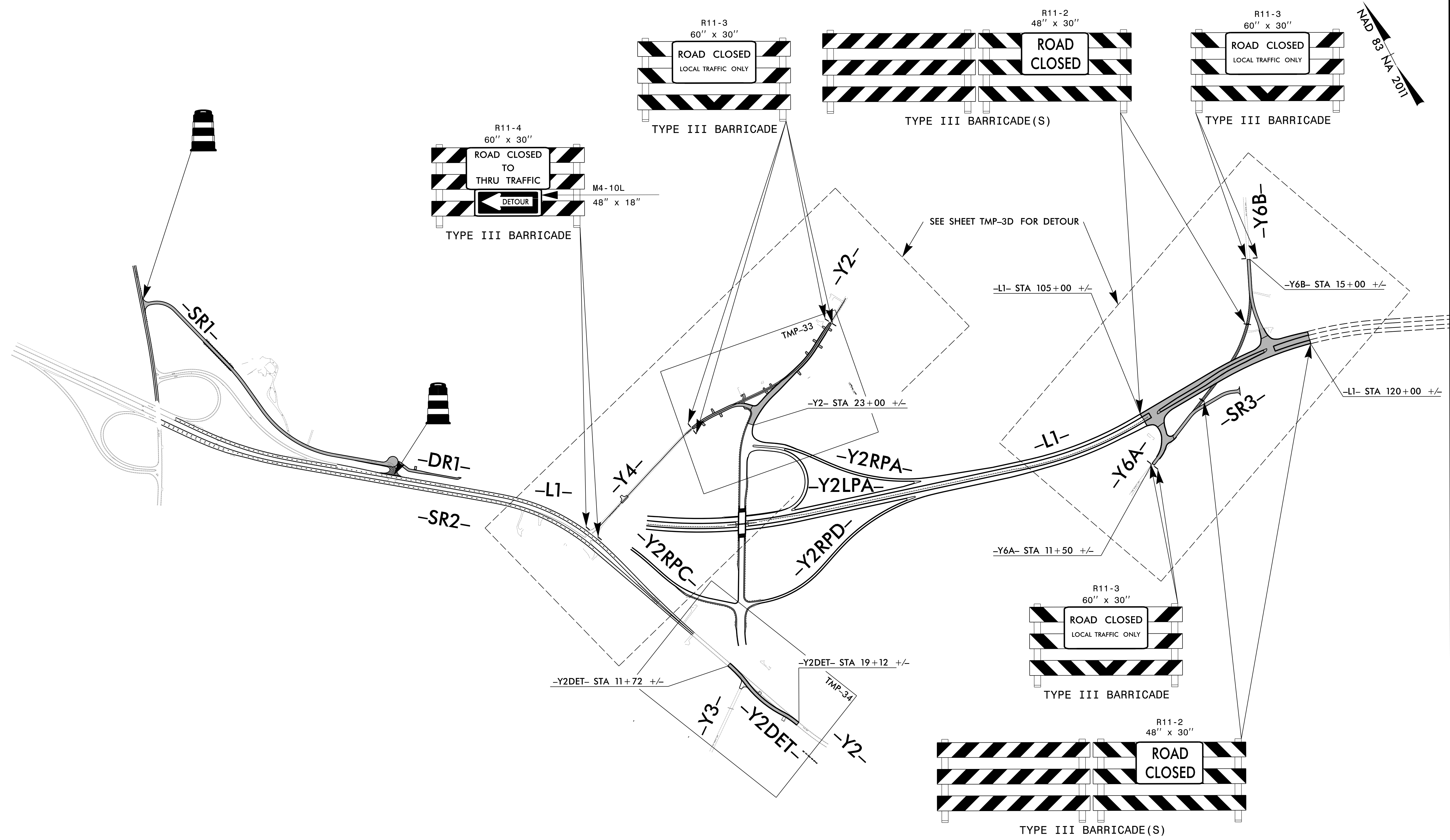
**moffatt & nichol**  
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**SITE 2  
 PHASE 1 OVERVIEW**

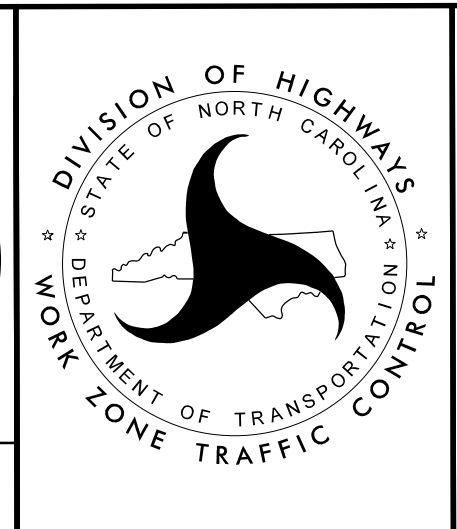
NAD 83 NA 2011



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gmodlin

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APPROVED: *Timothy R. Reid*  
 DATE: 11/5/2019  
 SEAL  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 015869  
 ENGINEER  
 T. REID

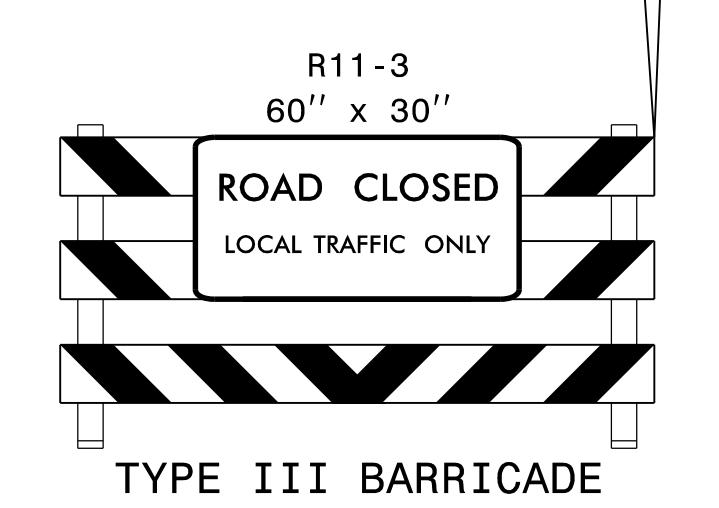
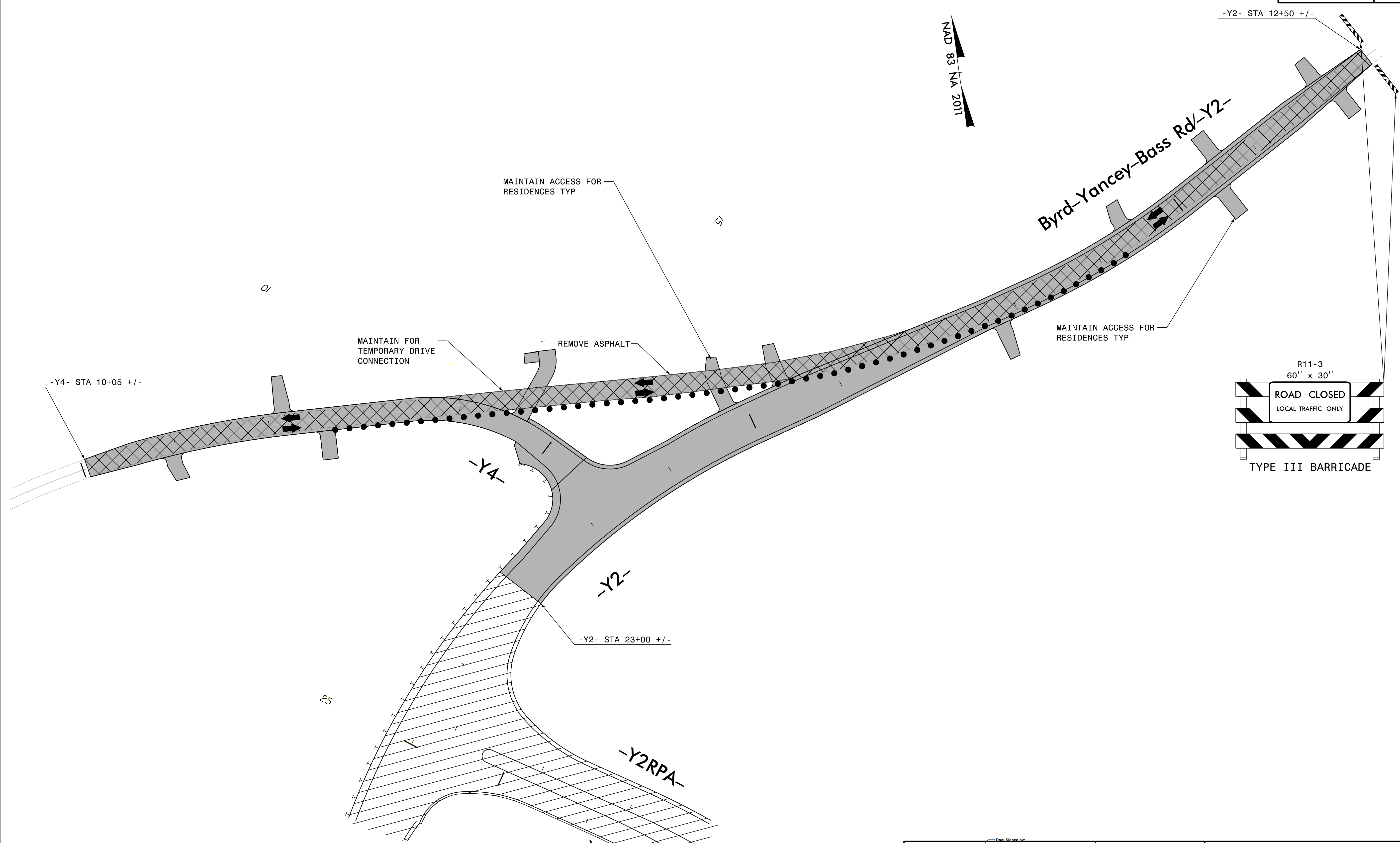


SITE 2  
 PHASE 2 OVERVIEW

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PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-33

NAD 83 NA 2011



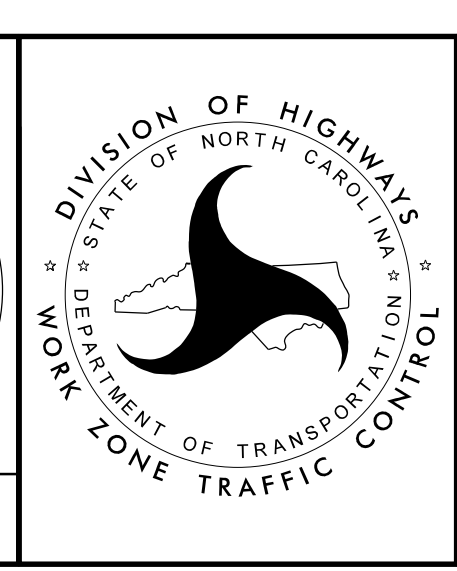
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gmedlin

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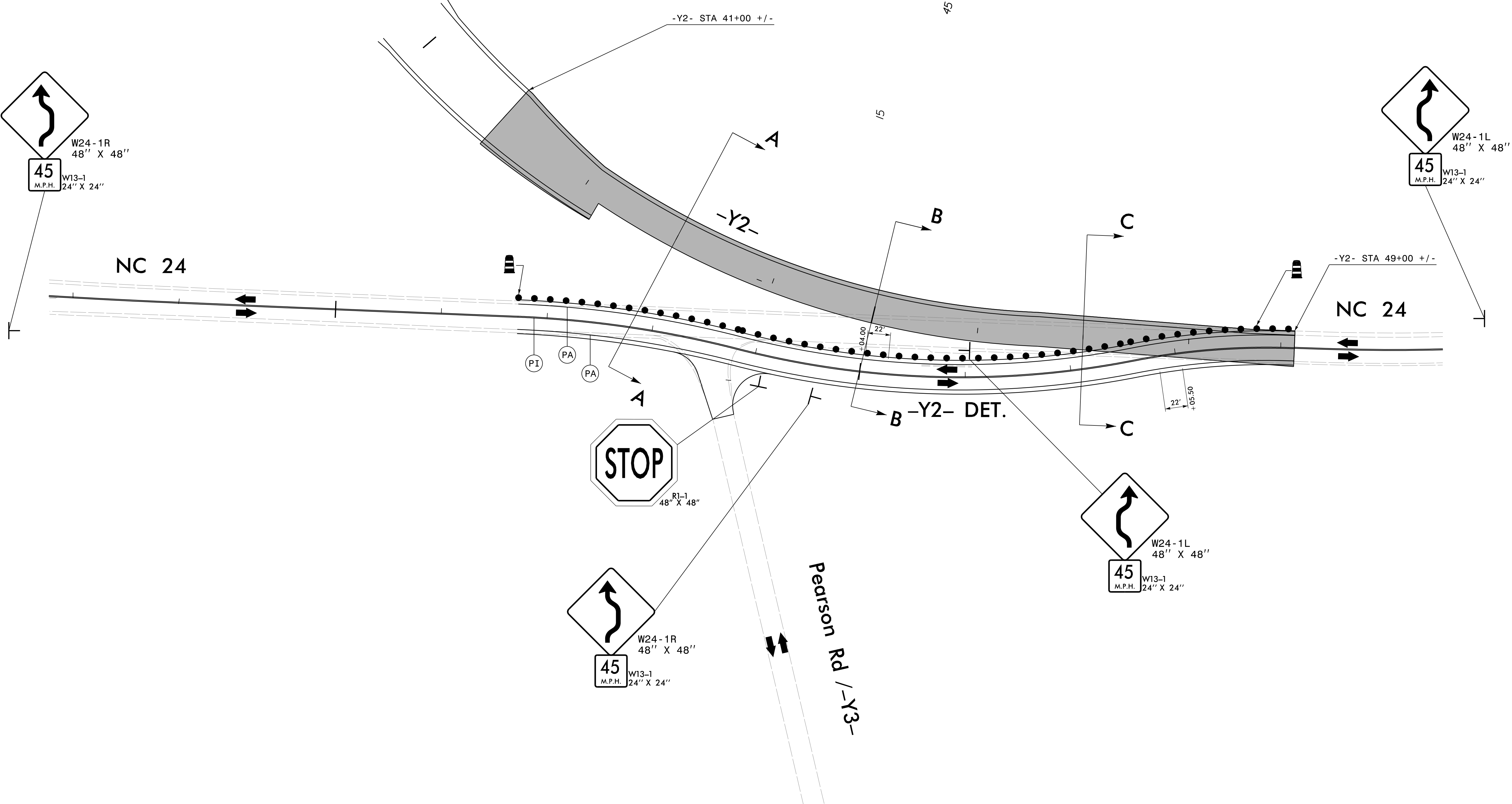
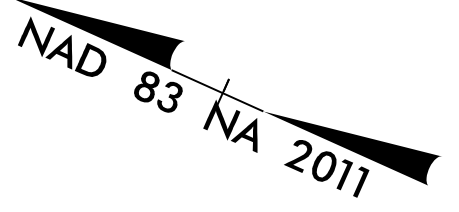


**DIVISION OF HIGHWAYS**  
STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

**SITE 2  
PHASE 2 DETAILS  
-Y2-**

SEE TMP-35 FOR -Y2- CROSS SECTION

INSTALL ADVANCE SIGNING PER RSD 1101.03 3 OF 9  
FOR -Y2DET- SEE SHEET 2B-6 AND X-107 - X-109



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DocuSigned by: Timothy R. Reid

DATE: 11/5/2019

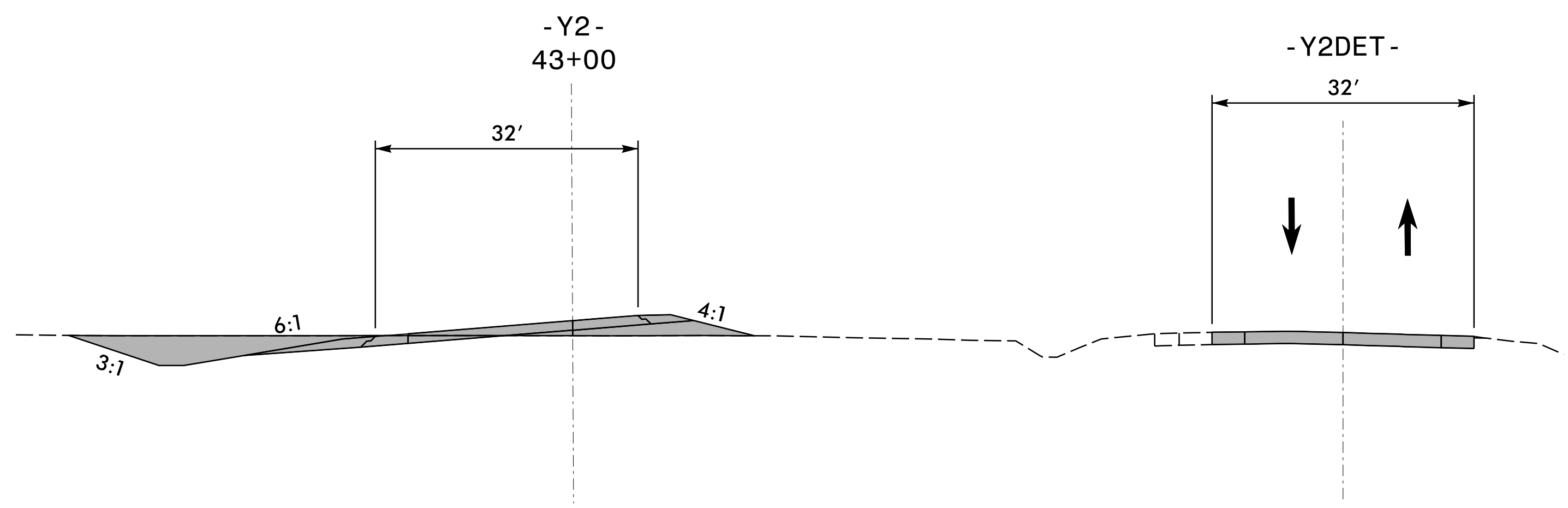
SEAL

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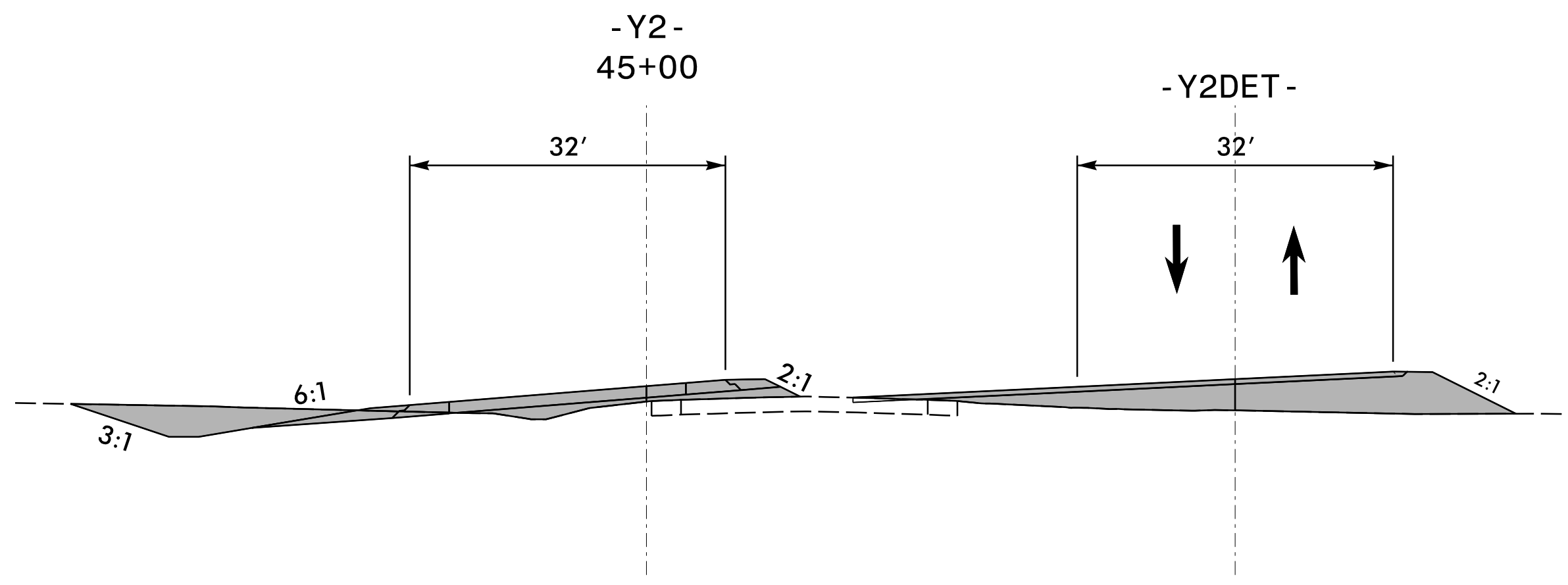


**SITE 2  
PHASE 3 OVERVIEW**

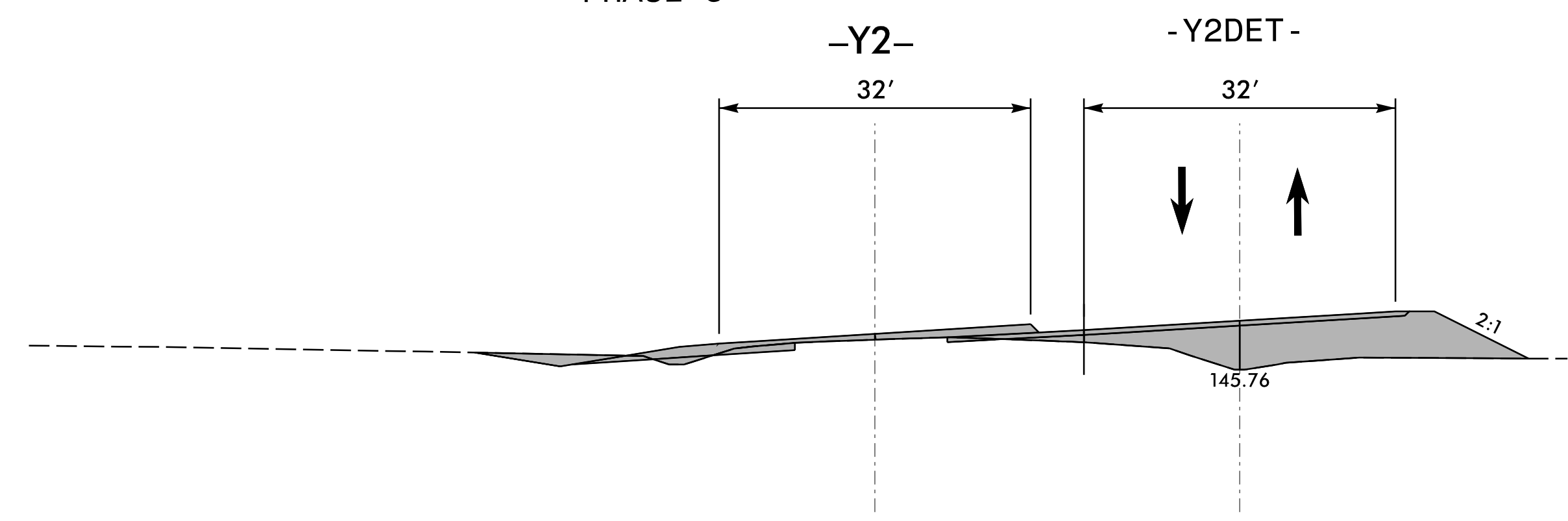
-Y2-  
AND  
-Y3-



SECTION A-A  
PHASE 3



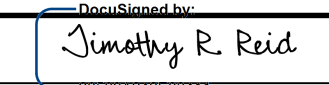
SECTION B-B  
PHASE 3



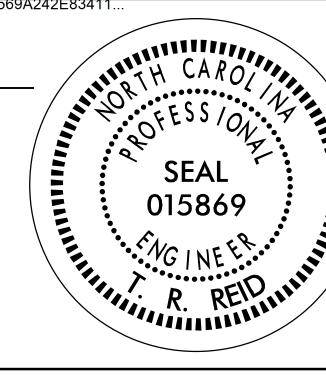
SECTION C-C  
PHASE 3

11/5/2019  
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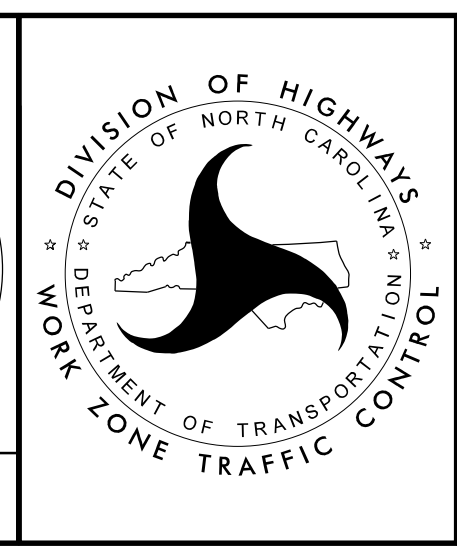
**moffatt & nichol**  
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NC License NO.: F-0105

APPROVED:   
DATE: 11/5/2019

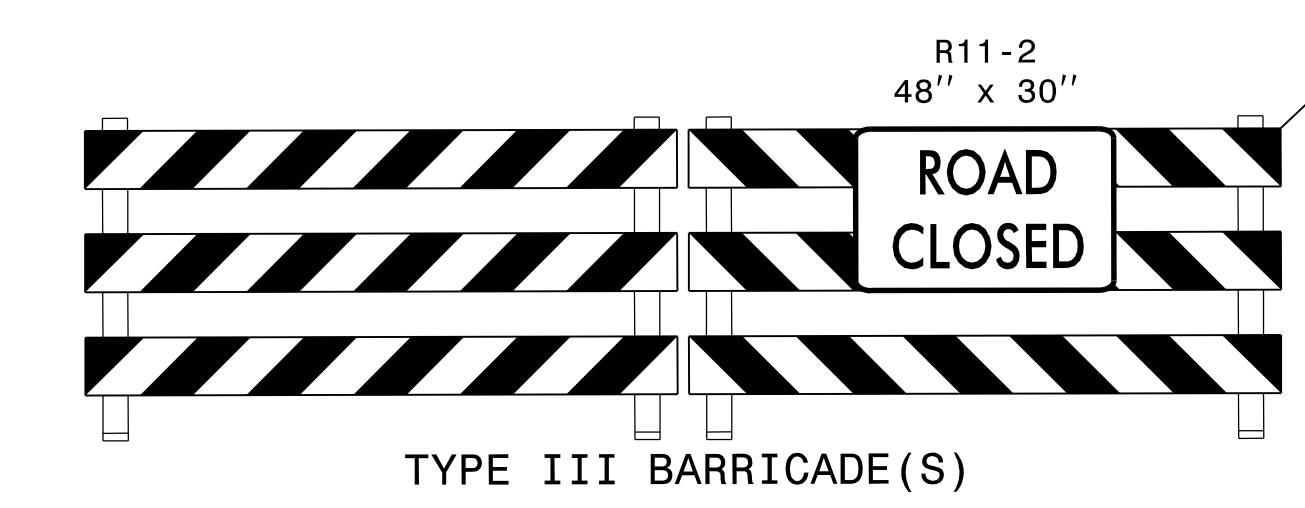
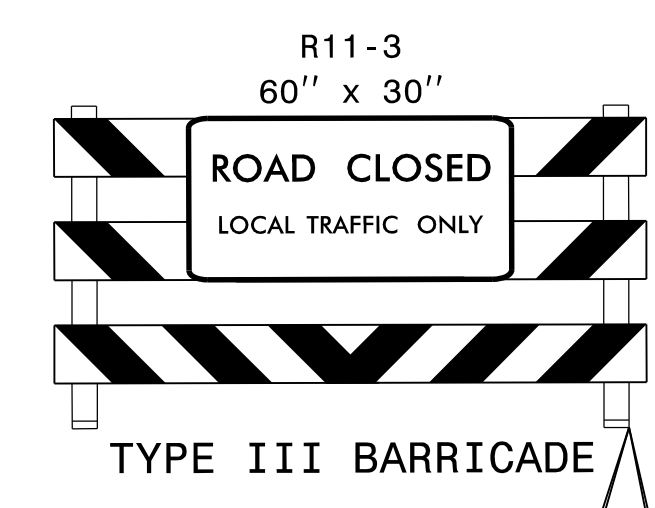
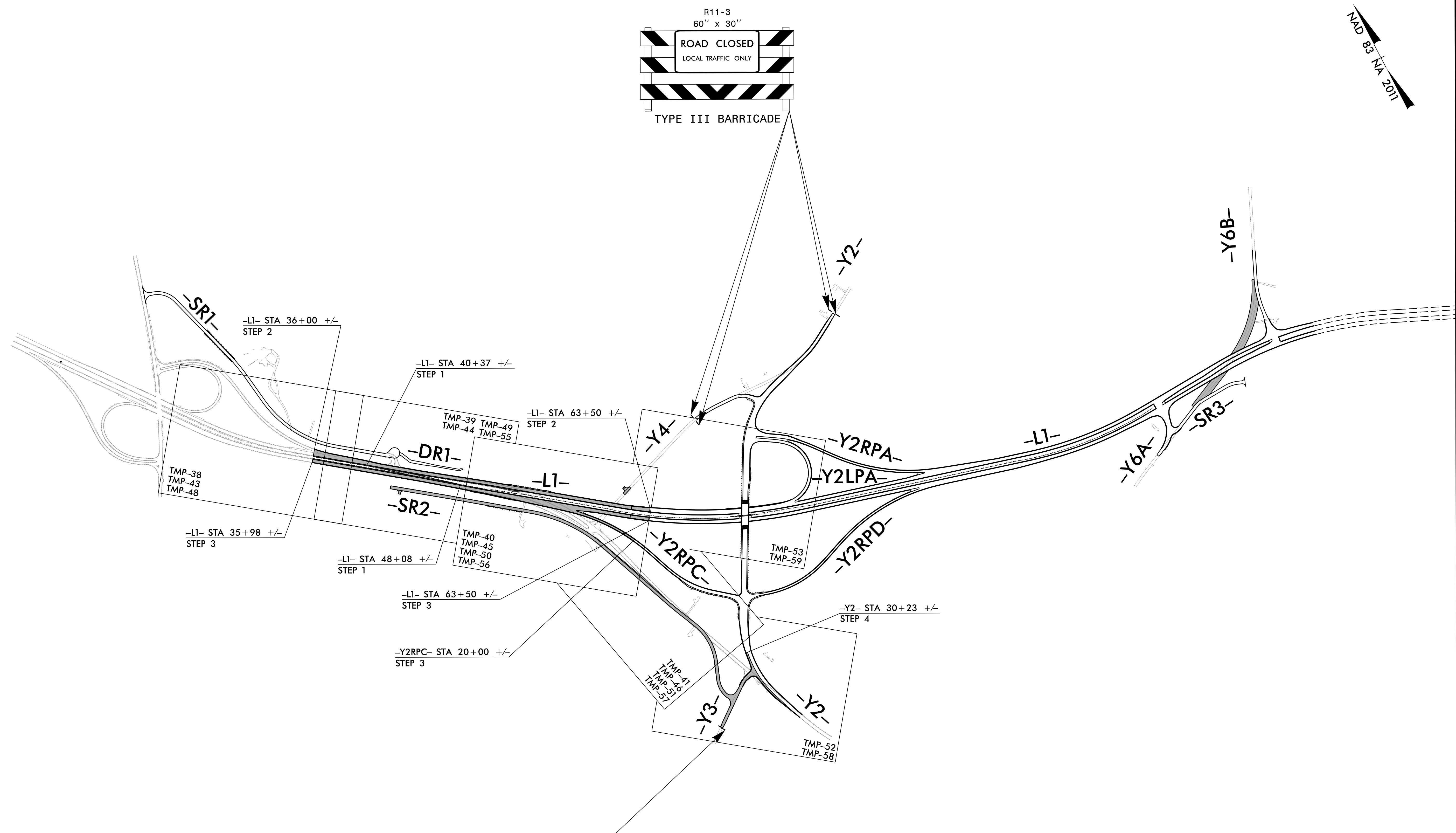
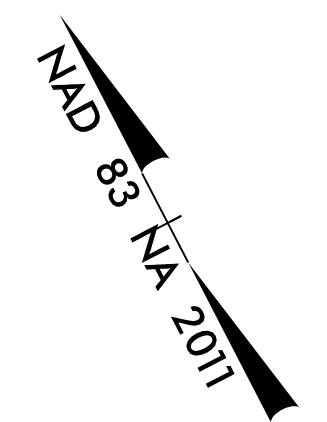
SEAL



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**SITE 2  
PHASE 3  
-Y2-  
CROSS-SECTIONS**

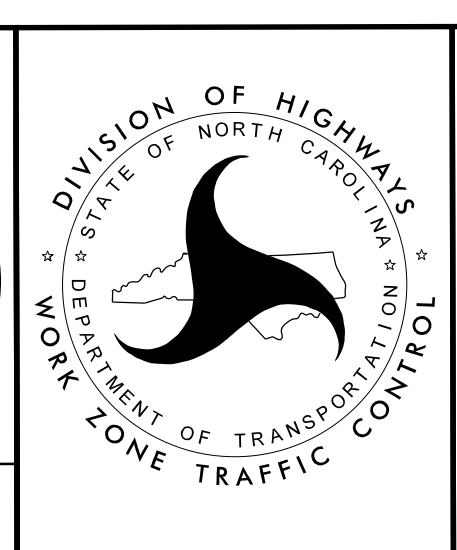


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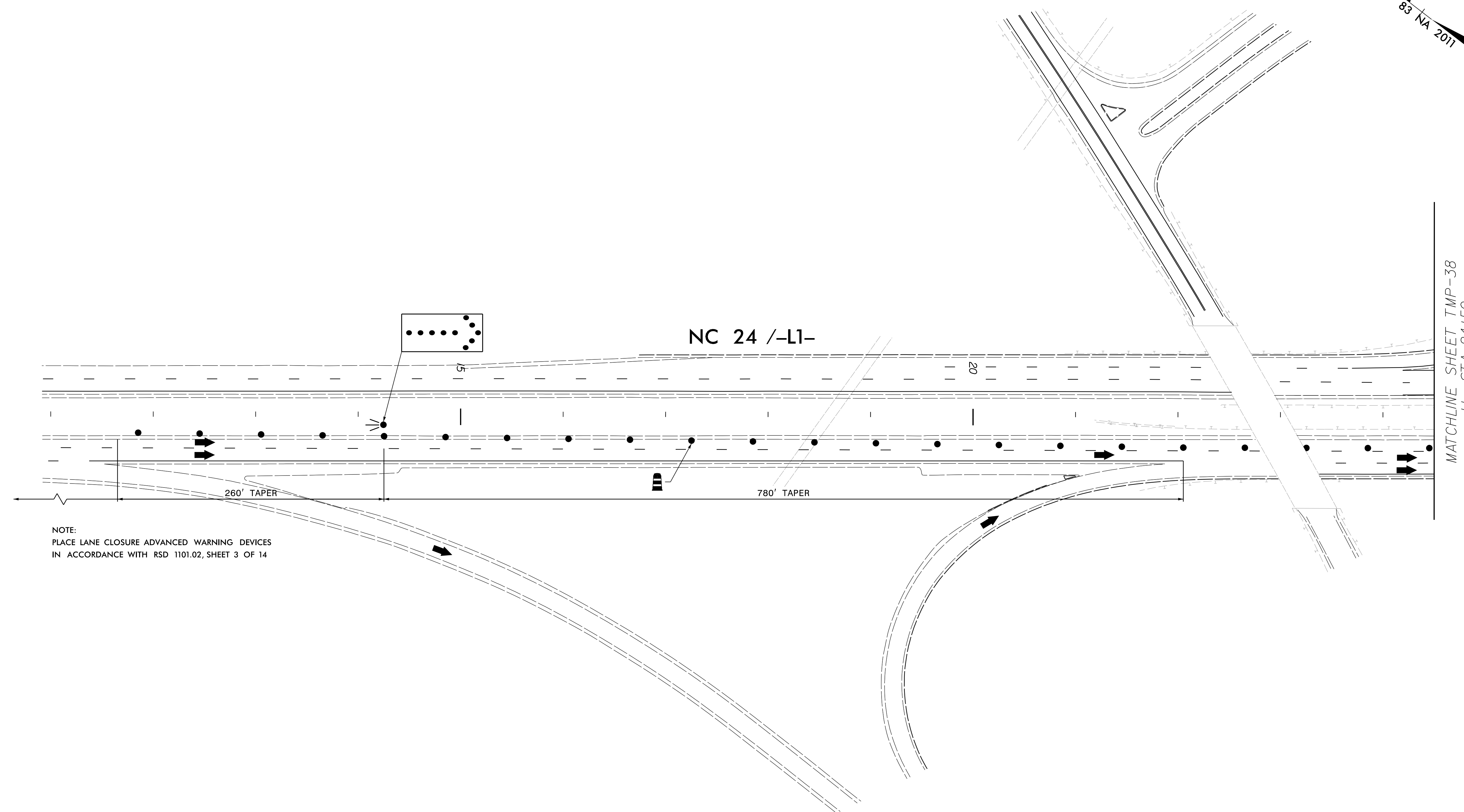
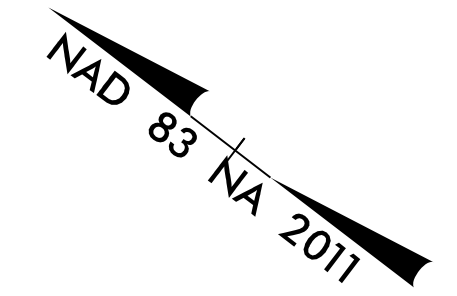
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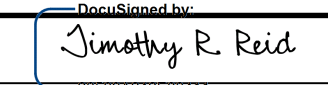
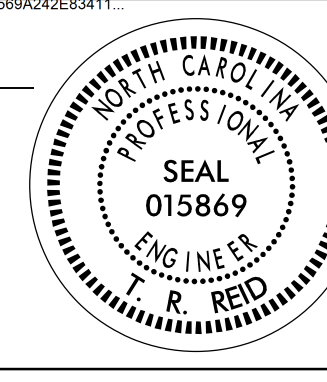
**SITE 2  
PHASE 4 OVERVIEW**

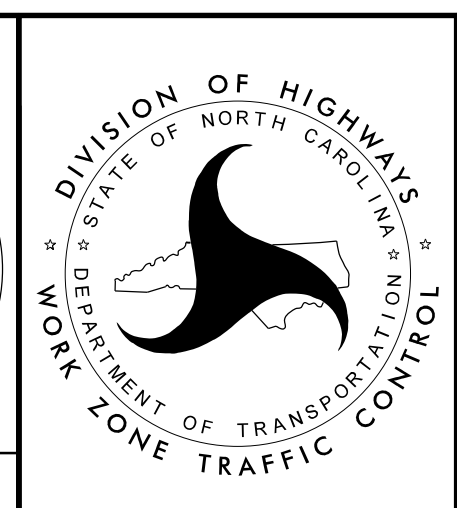


NOTE:  
PLACE LANE CLOSURE ADVANCED WARNING DEVICES  
IN ACCORDANCE WITH RSD 1101.02, SHEET 3 OF 14

11/5/2019 0:29:48 AM \\RA8522-07\CADD\2303E\TrafficControl\TCP\2303e\_fc\_tmp\_37.dgn gmedlin

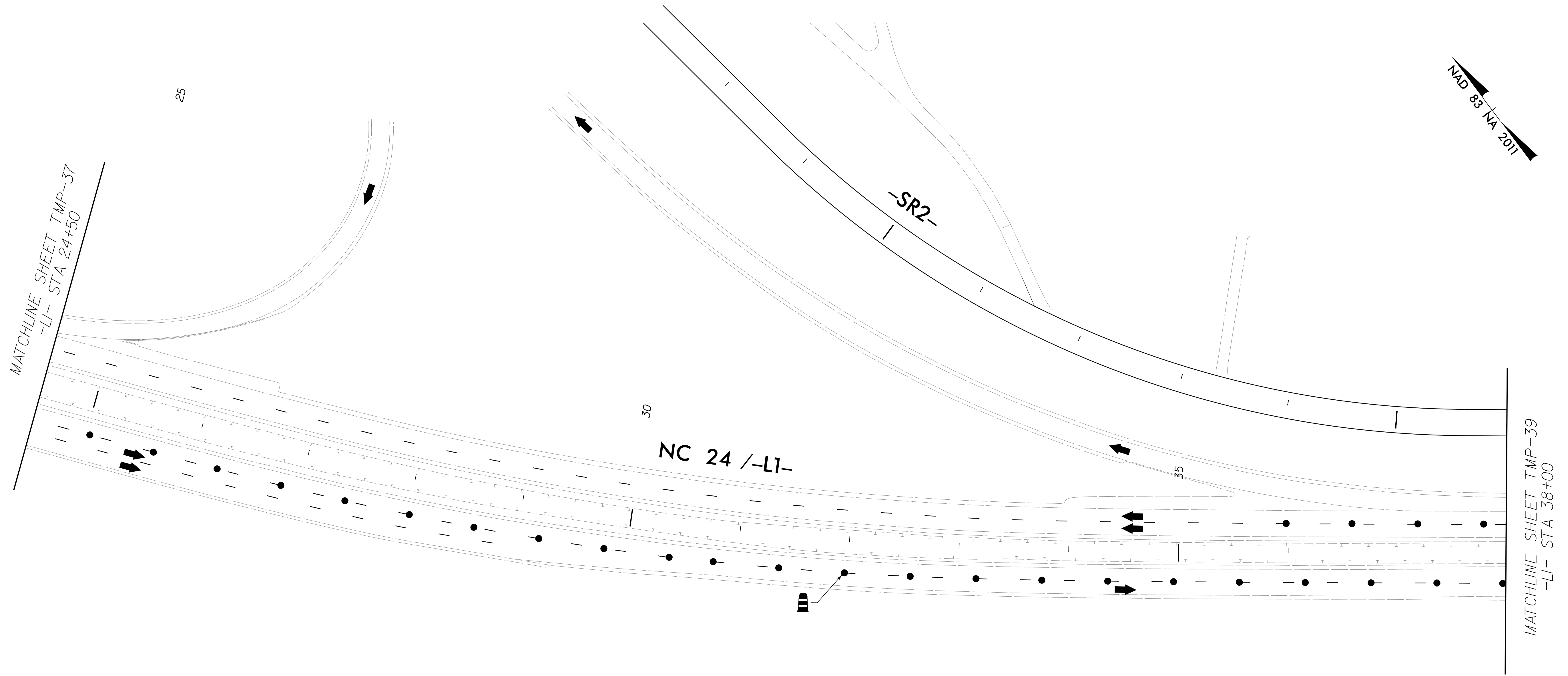
**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
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NC License NO.: F-0105

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DATE: 11/5/2019  
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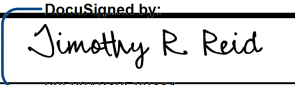
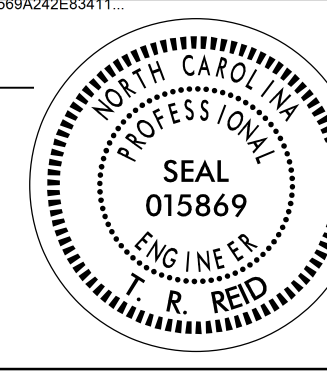
**SITE 2  
PHASE 4, STEP 1 DETAILS  
-L1-**

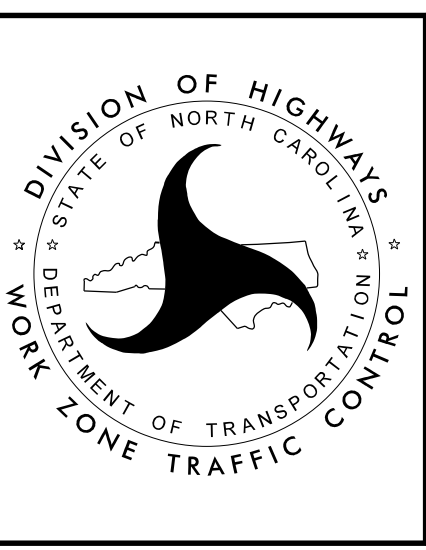
PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-38



11/5/2019  
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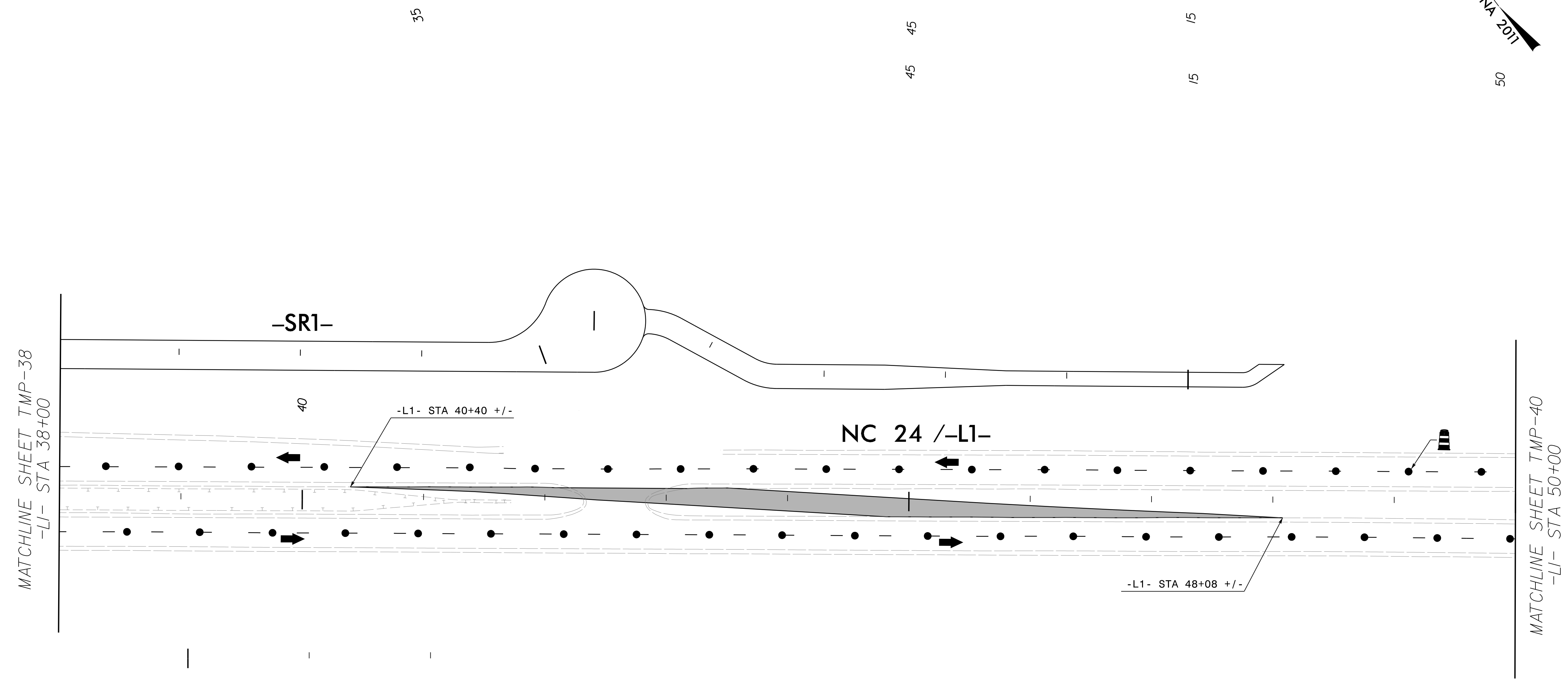
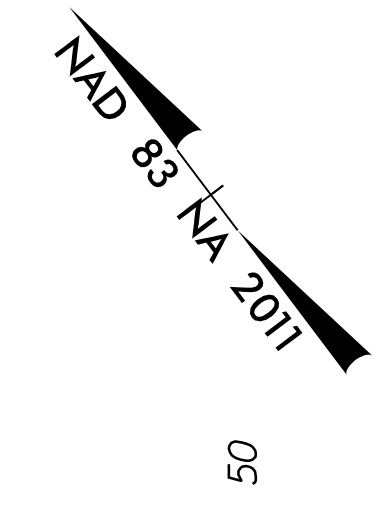


**SITE 2**  
**PHASE 4, STEP 1 DETAILS**  
**-L1-**



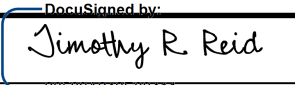
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R-2303E	TMP-39

SEE SHEET 2B-7 FOR CROSSOVER

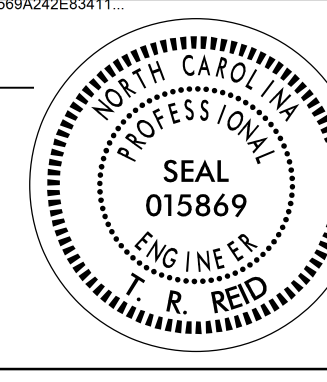


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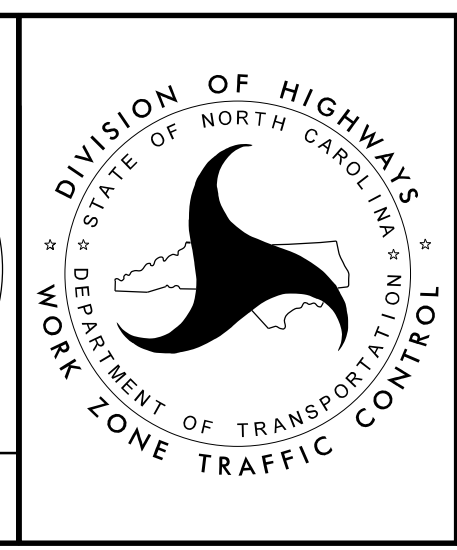
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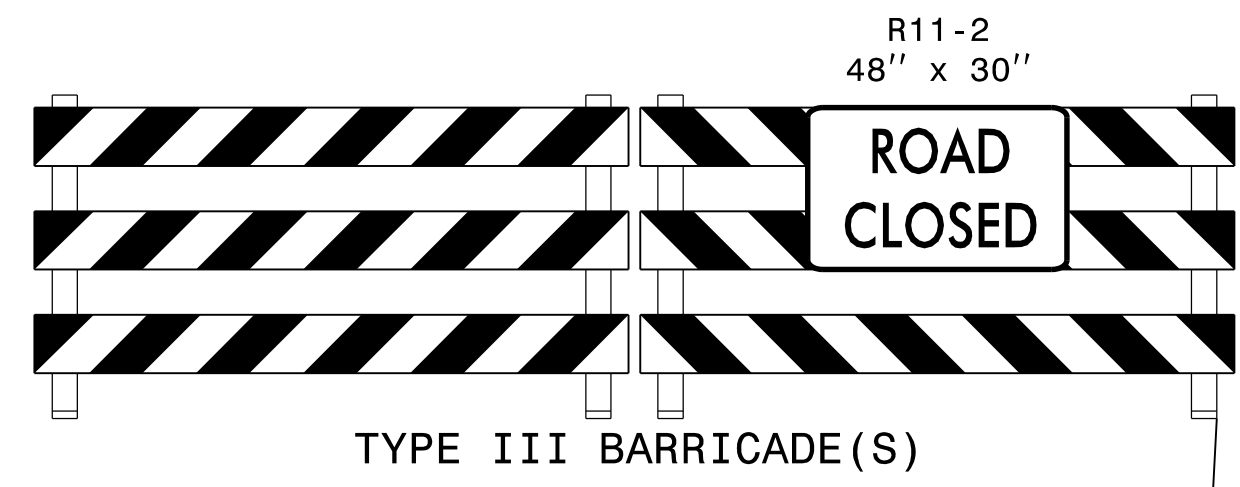
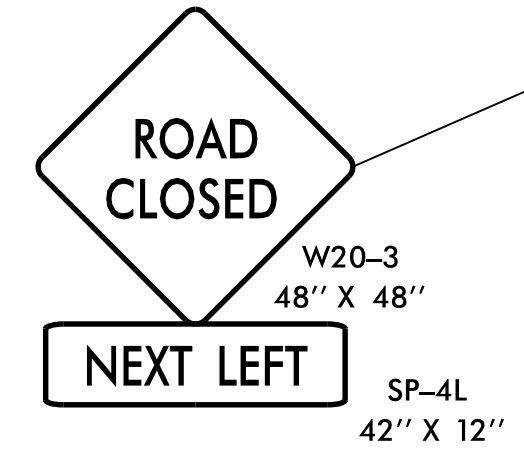
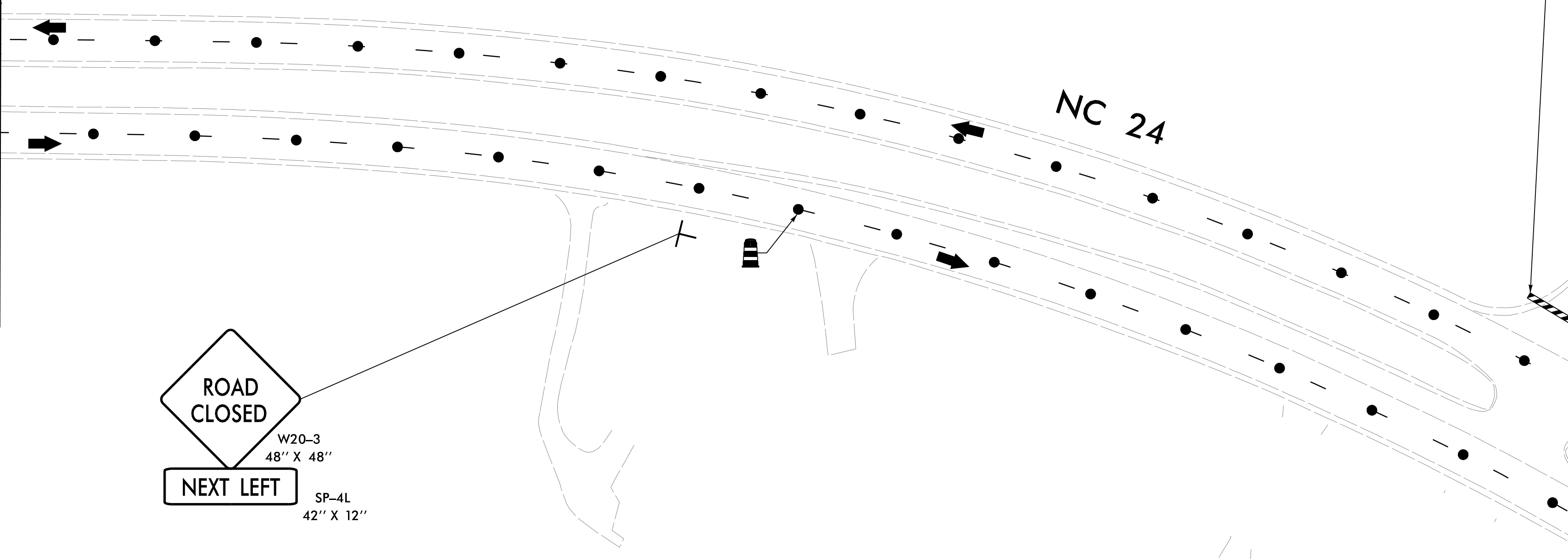


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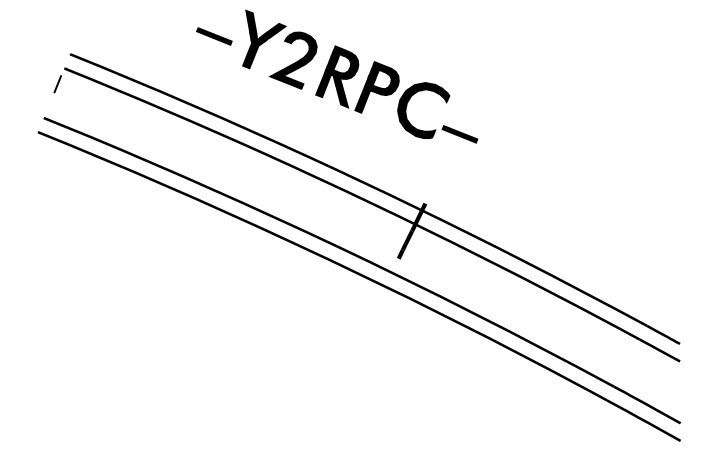
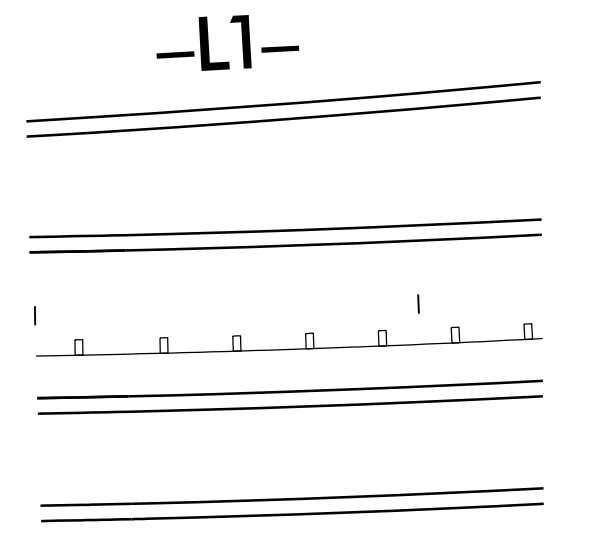
**SITE 2  
 PHASE 4, STEP 1 DETAILS  
 -L1-**

MATCHLINE SHEET TMP-39  
-L1- STA 50+00



SEE TMP-42 FOR -US421- CROSS SECTION

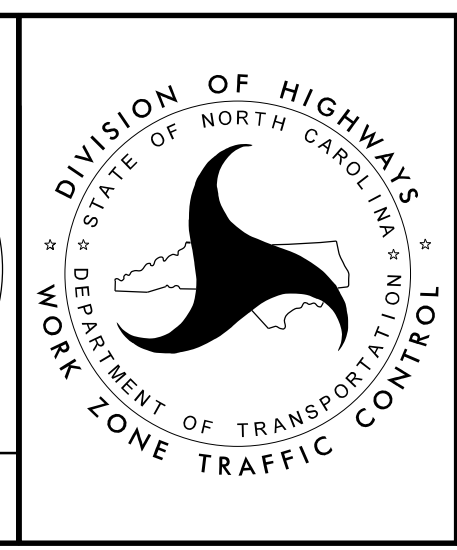
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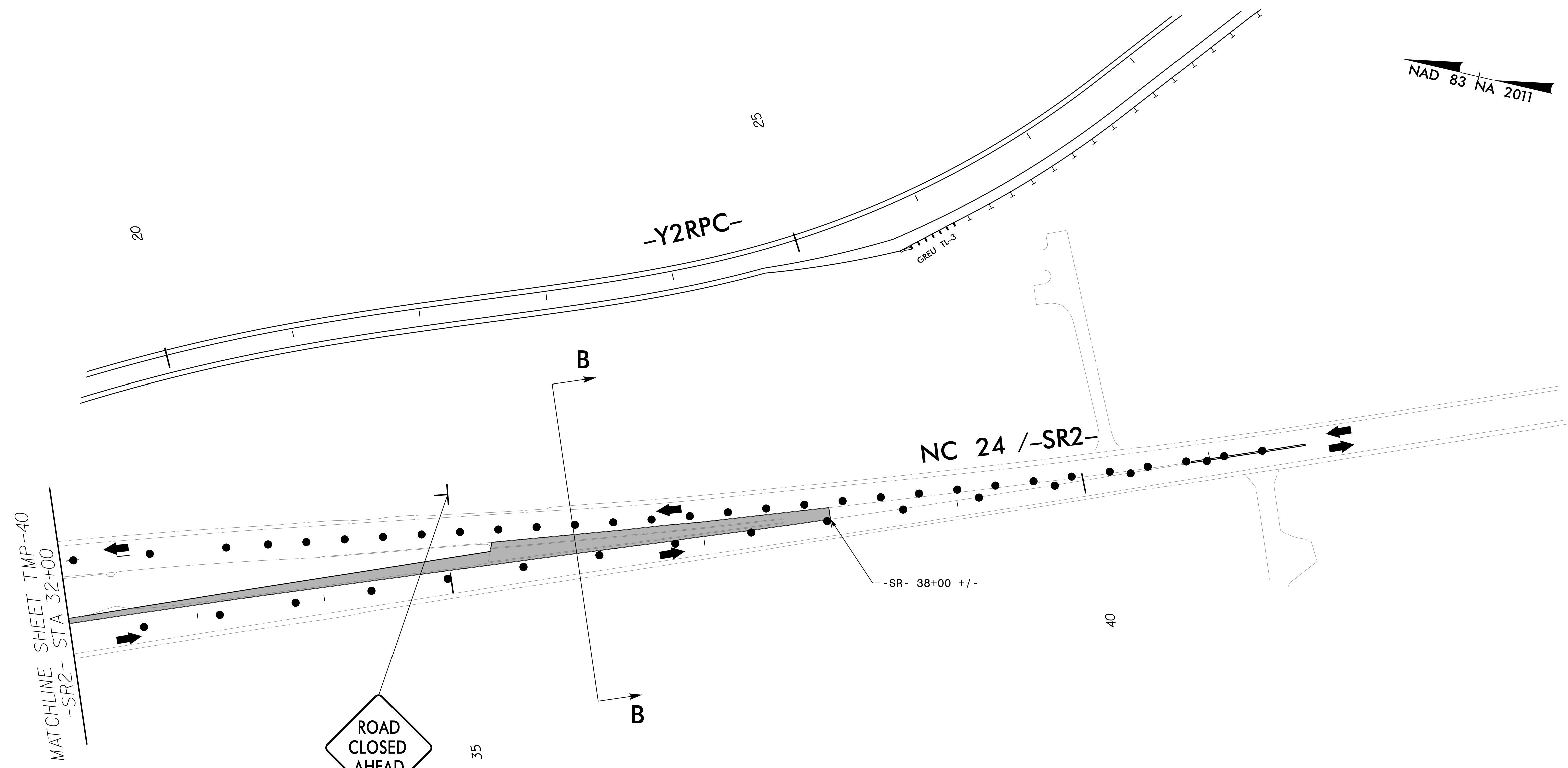
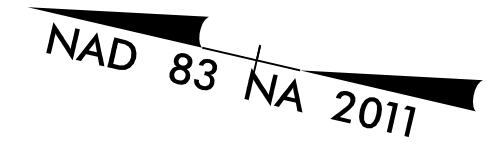
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**SITE 2  
PHASE 4, STEP 1 DETAILS  
-L1-**



ROAD CLOSED AHEAD  
W20-3  
48" x 48"

NEXT RIGHT  
SP-4R  
42" x 12"

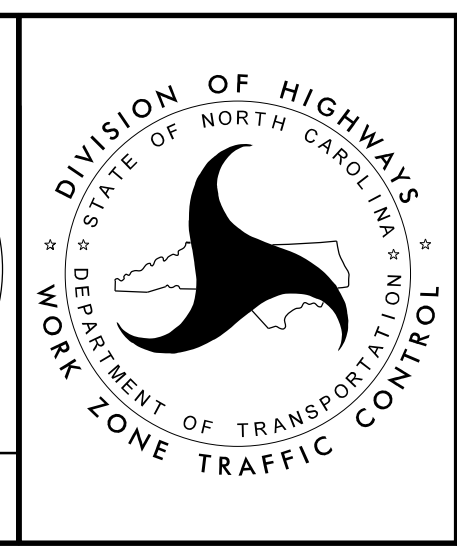
SEE TMP-38 FOR -US421- CROSS SECTION

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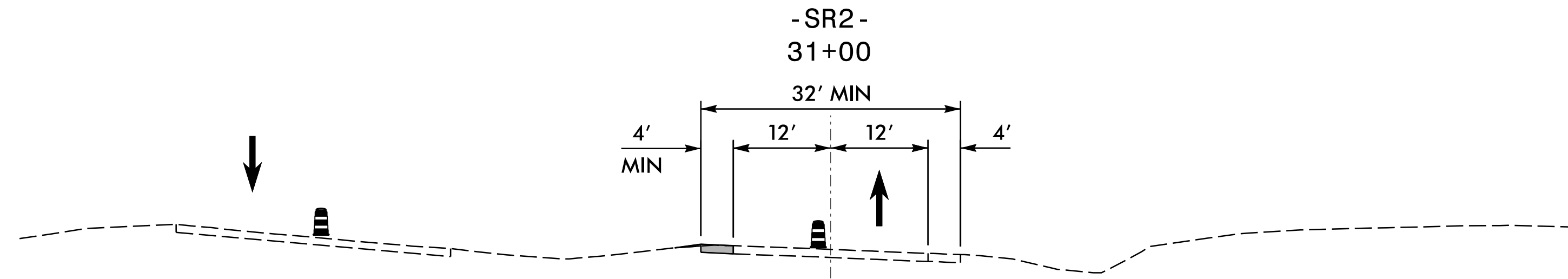
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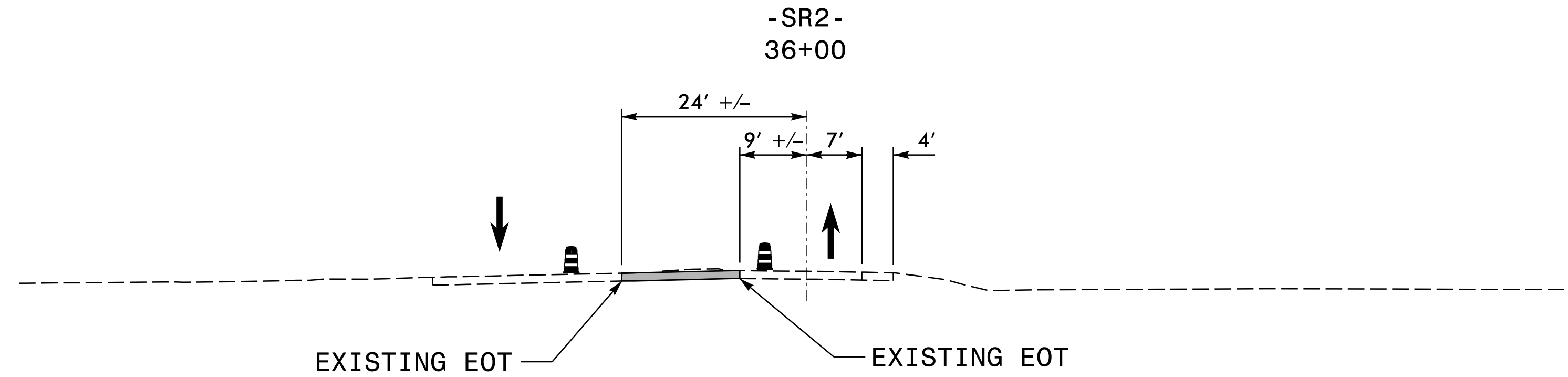


**SITE 2  
PHASE 4, STEP 1 DETAILS  
-L1-**

11/5/2019  
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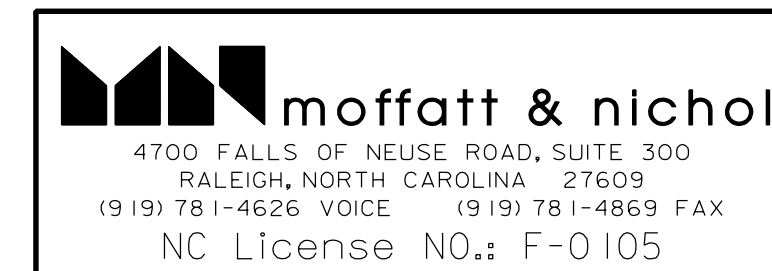


SECTION A-A  
PHASE 4 STEP 1



SECTION B-B  
PHASE 4 STEP 1

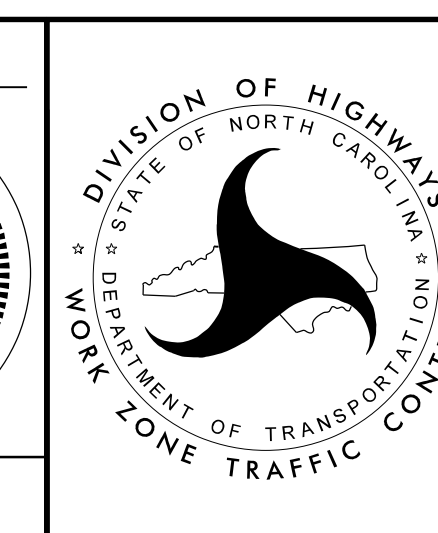
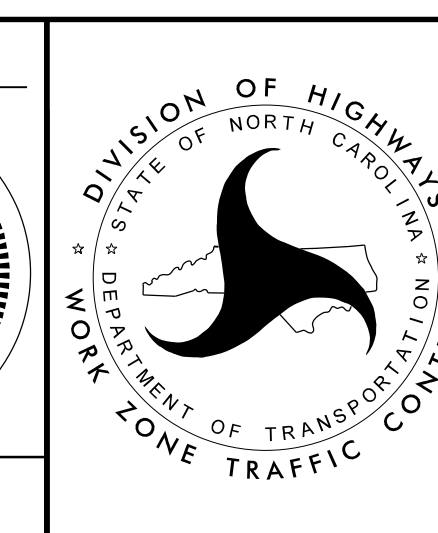
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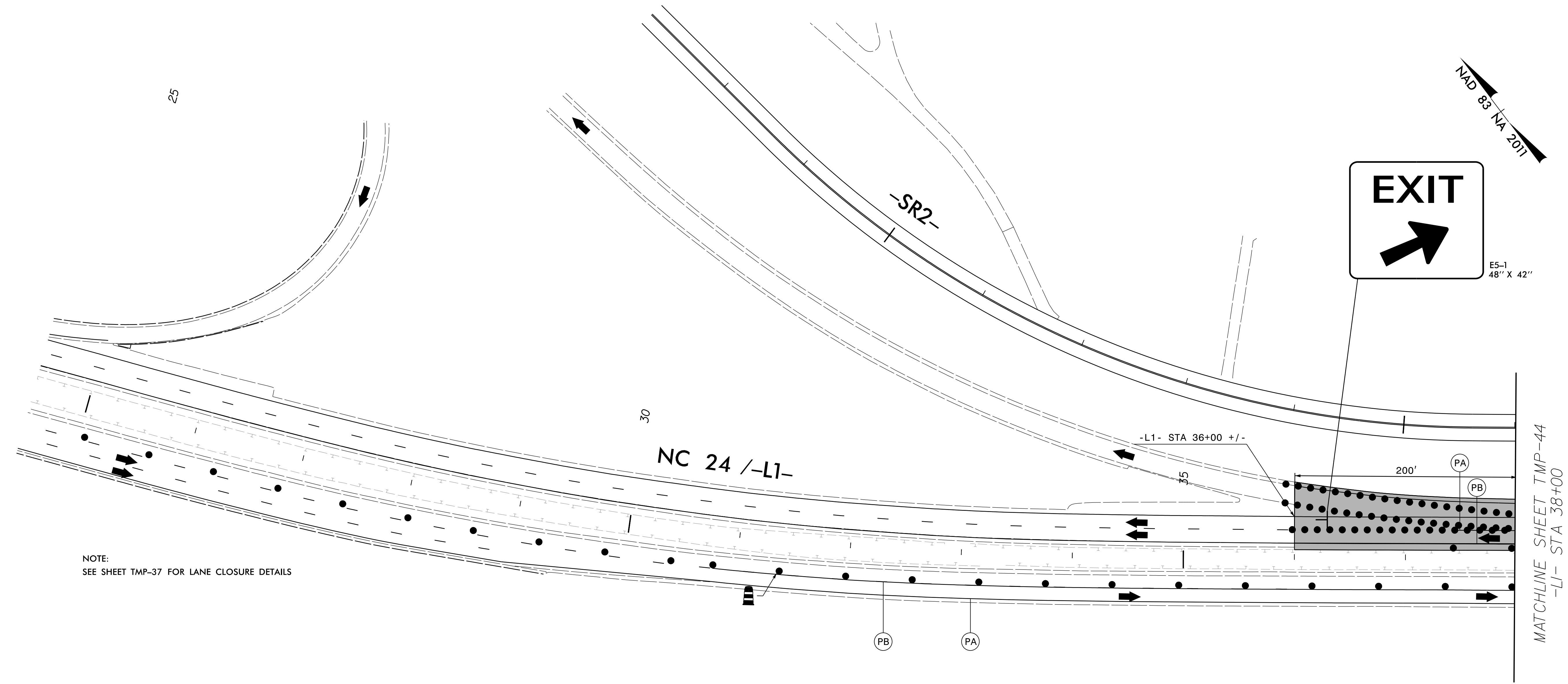
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**SITE 2**  
**PHASE 4 STEP 1**  
**-SR2-**  
**CROSS-SECTIONS**



NOTE:  
SEE SHEET TMP-37 FOR LANE CLOSURE DETAILS

11/5/2019  
 O:\NRA\8522-07\CADD\NR2303E\TrafficControl\TCP\2303e\_fc\_tmp\_43.dgn  
 gmedlin

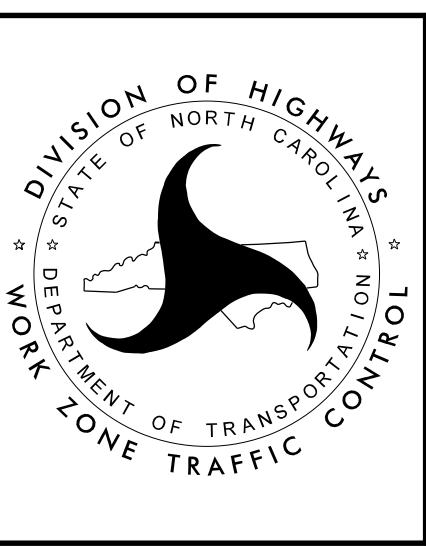
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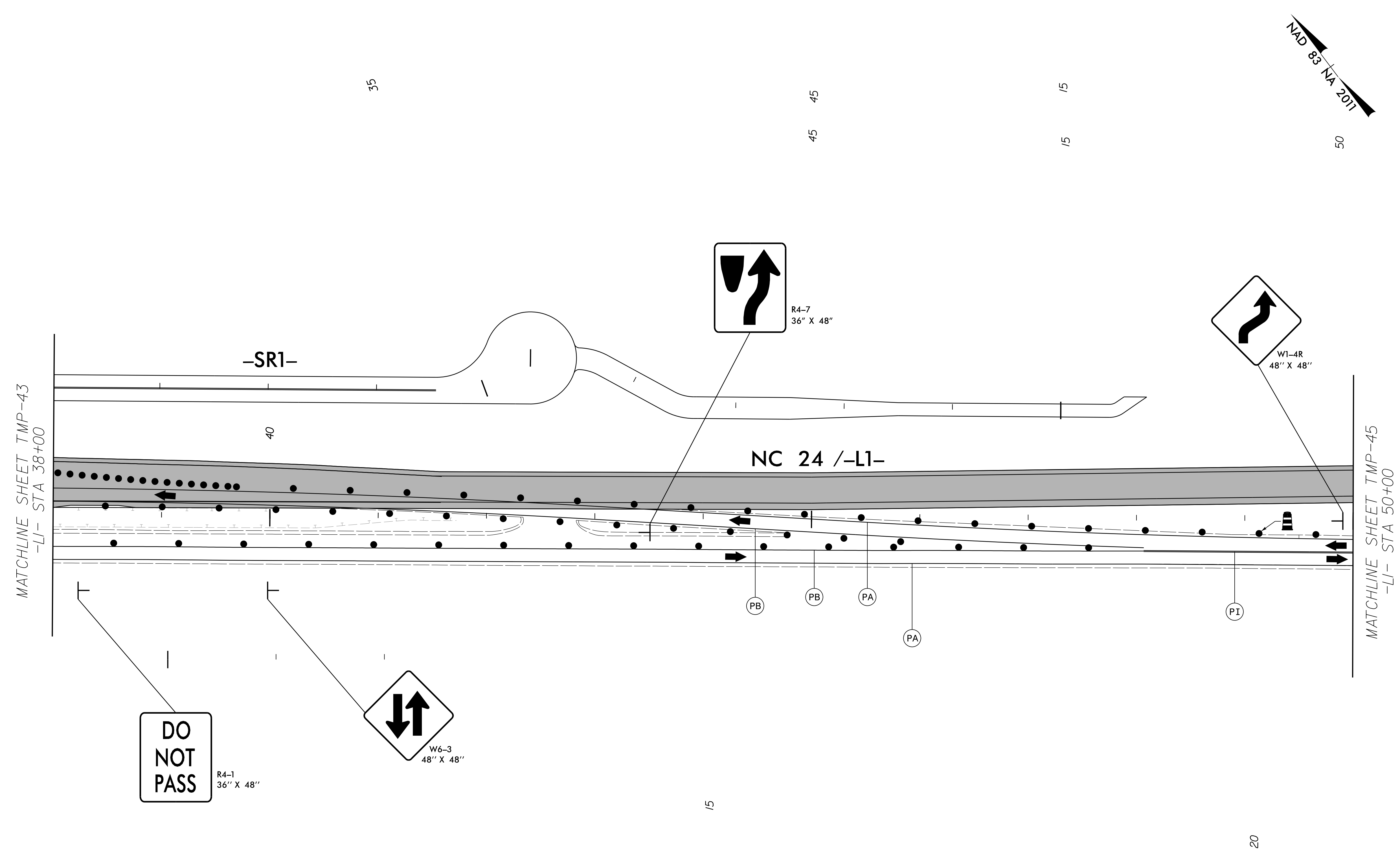
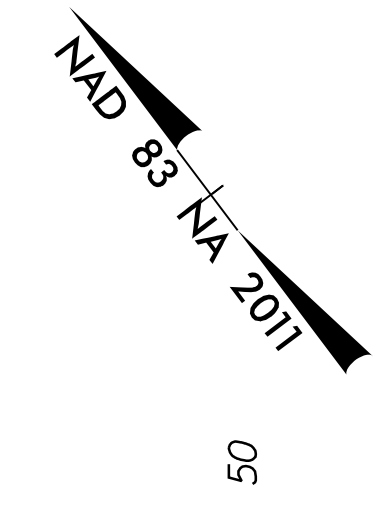
DATE: 11/5/2019

SEAL

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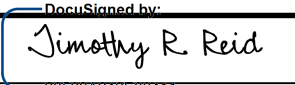
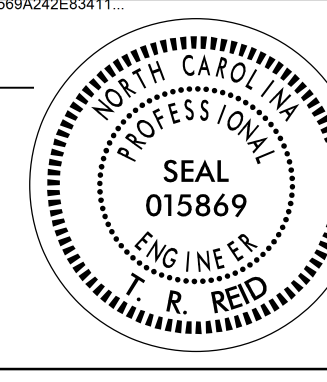


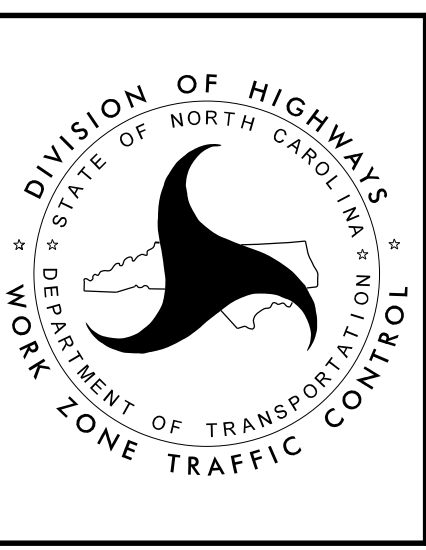
**SITE 2**  
**PHASE 4, STEP 2 DETAILS**  
**-L1-**



11/5/2019  
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 gmedlin

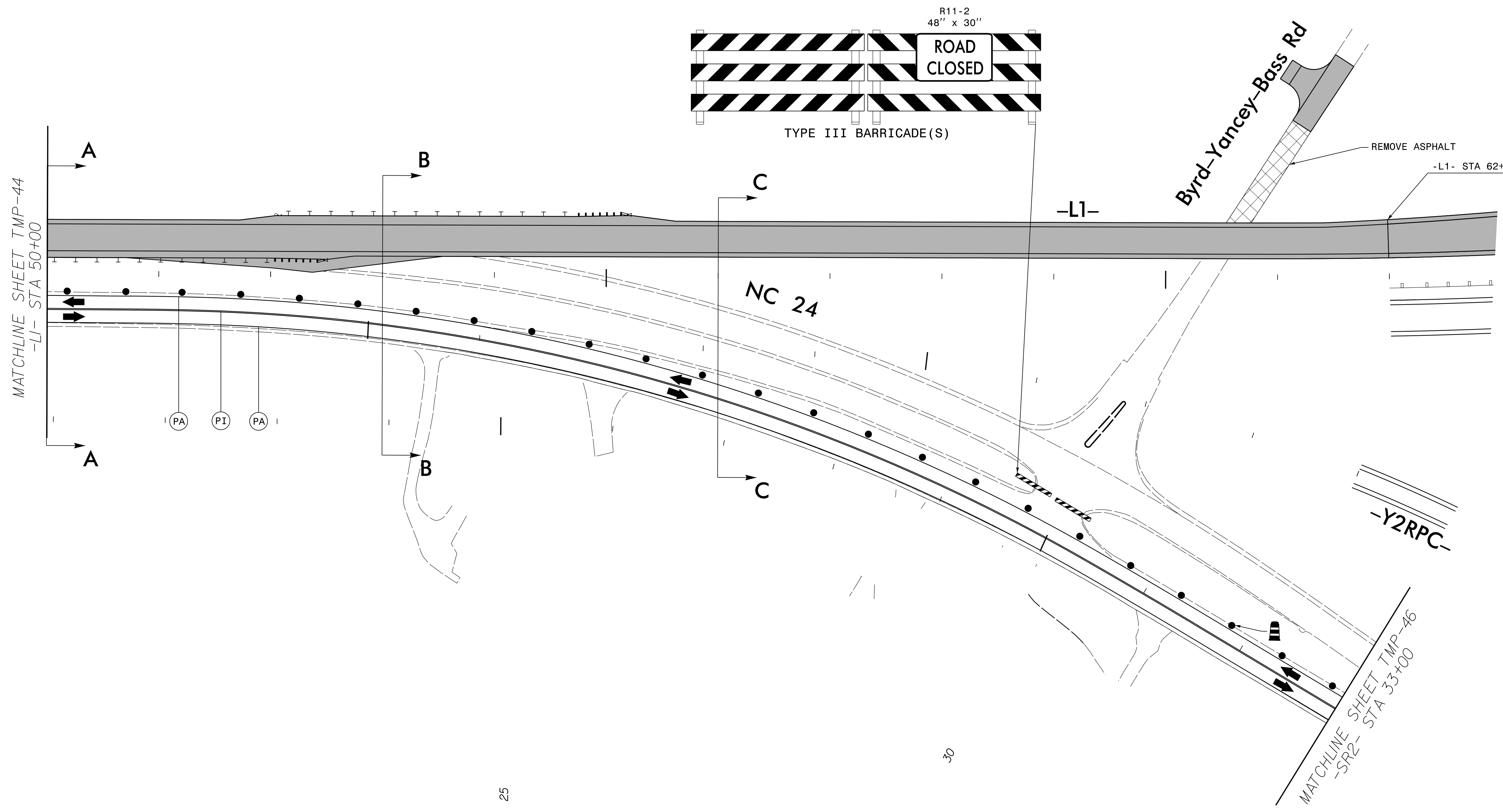
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 DATE: 11/5/2019  
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**SITE 2**  
**PHASE 4, STEP 2 DETAILS**  
**-L1-**

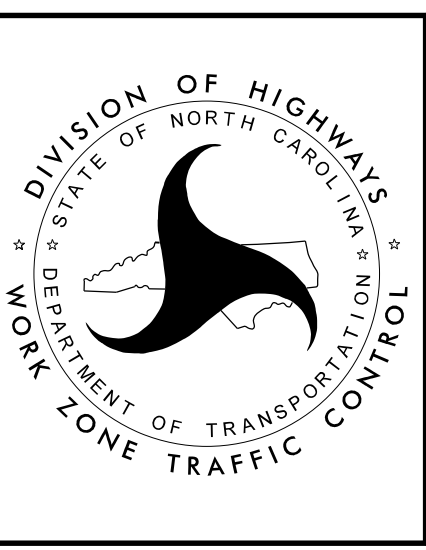
SEE TMP-47 FOR -L1- CROSS SECTION



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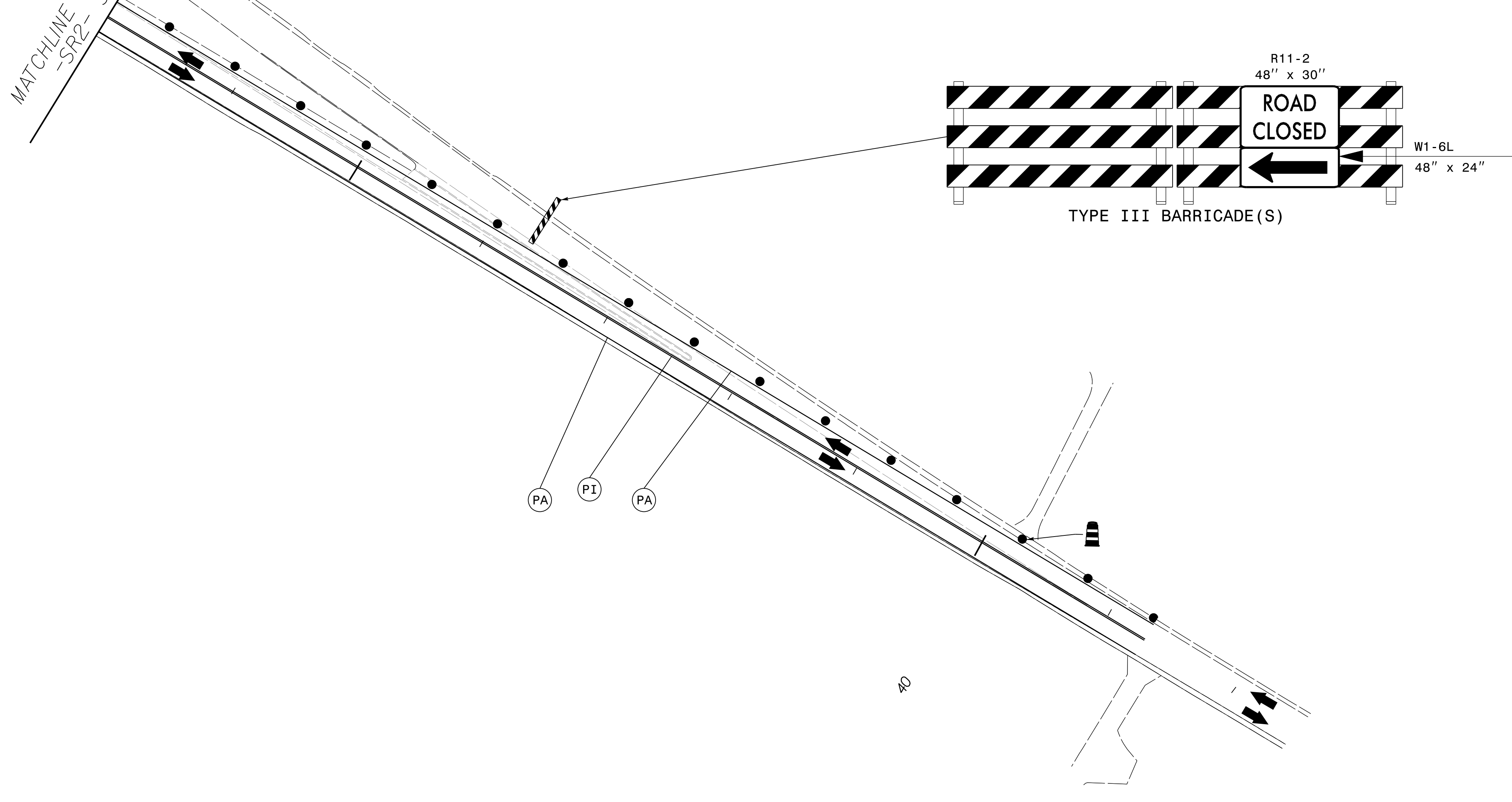


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 WORK ZONE TRAFFIC CONTROL

**SITE 2**  
**PHASE 4, STEP 2 DETAILS**  
**-L1-**

MATCHLINE SHEET TMP-45  
-SR2- STA 33+00

NAD 83 NA 2011



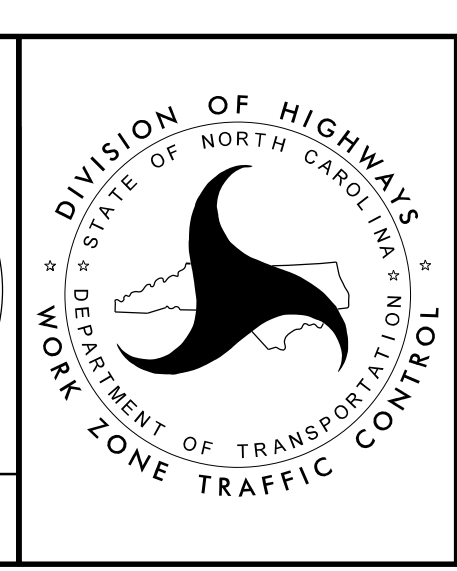
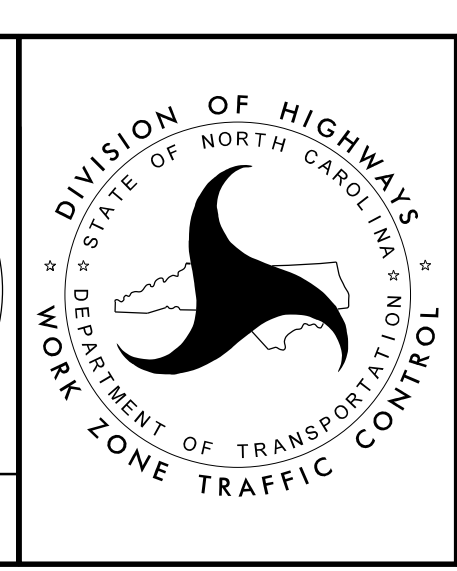
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11/5/2019  
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gmedlin

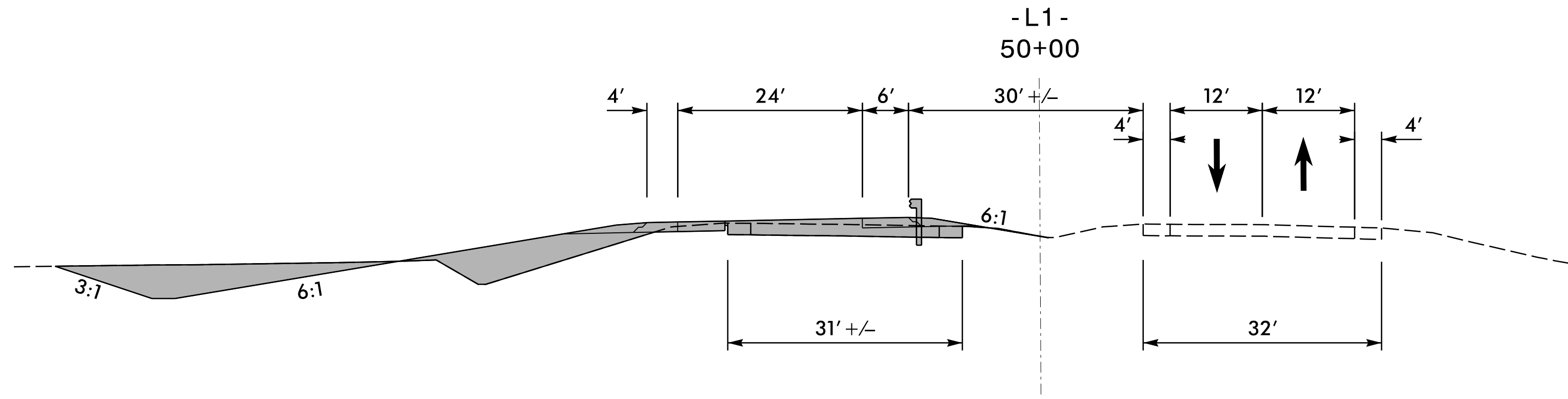
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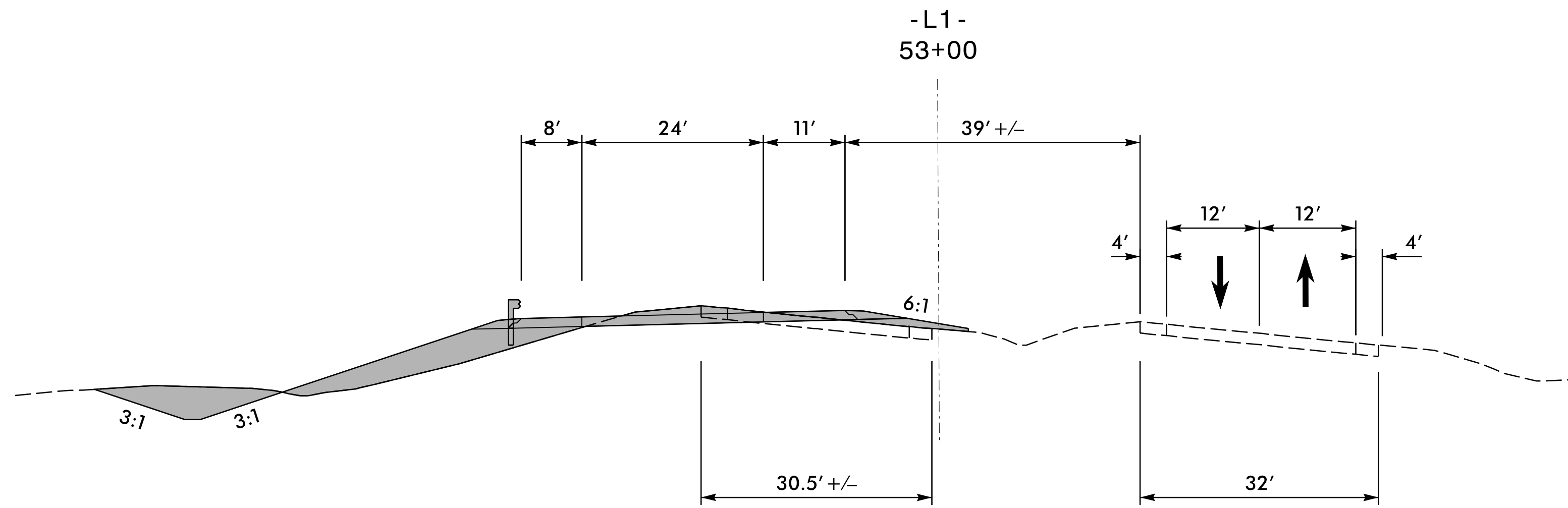


**SITE 2  
PHASE 4, STEP 2 DETAILS  
-SR2-**

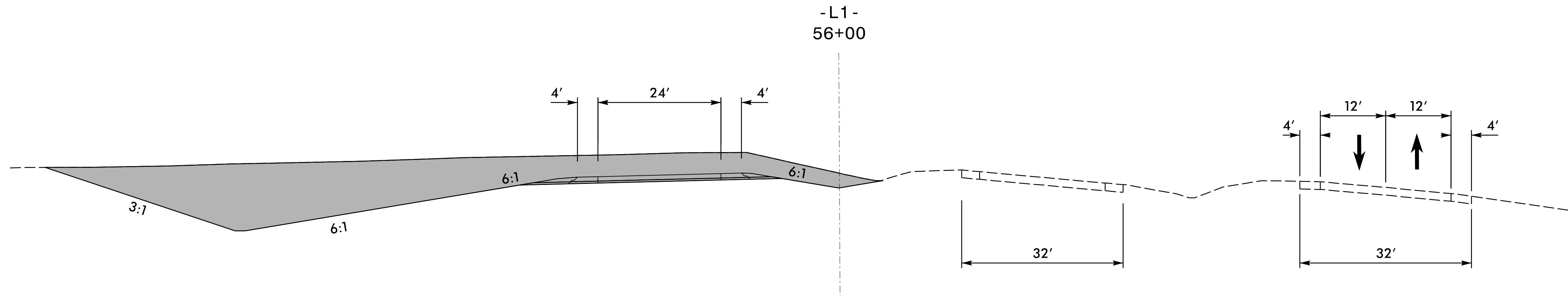




SECTION A-A  
PHASE 4, STEP 2

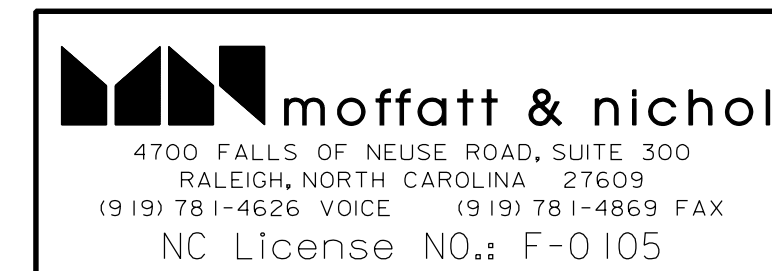


SECTION B-B  
PHASE 4, STEP 2

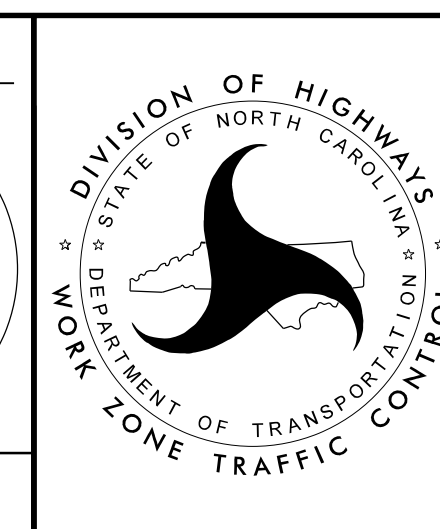


SECTION C-C  
PHASE 4, STEP 2

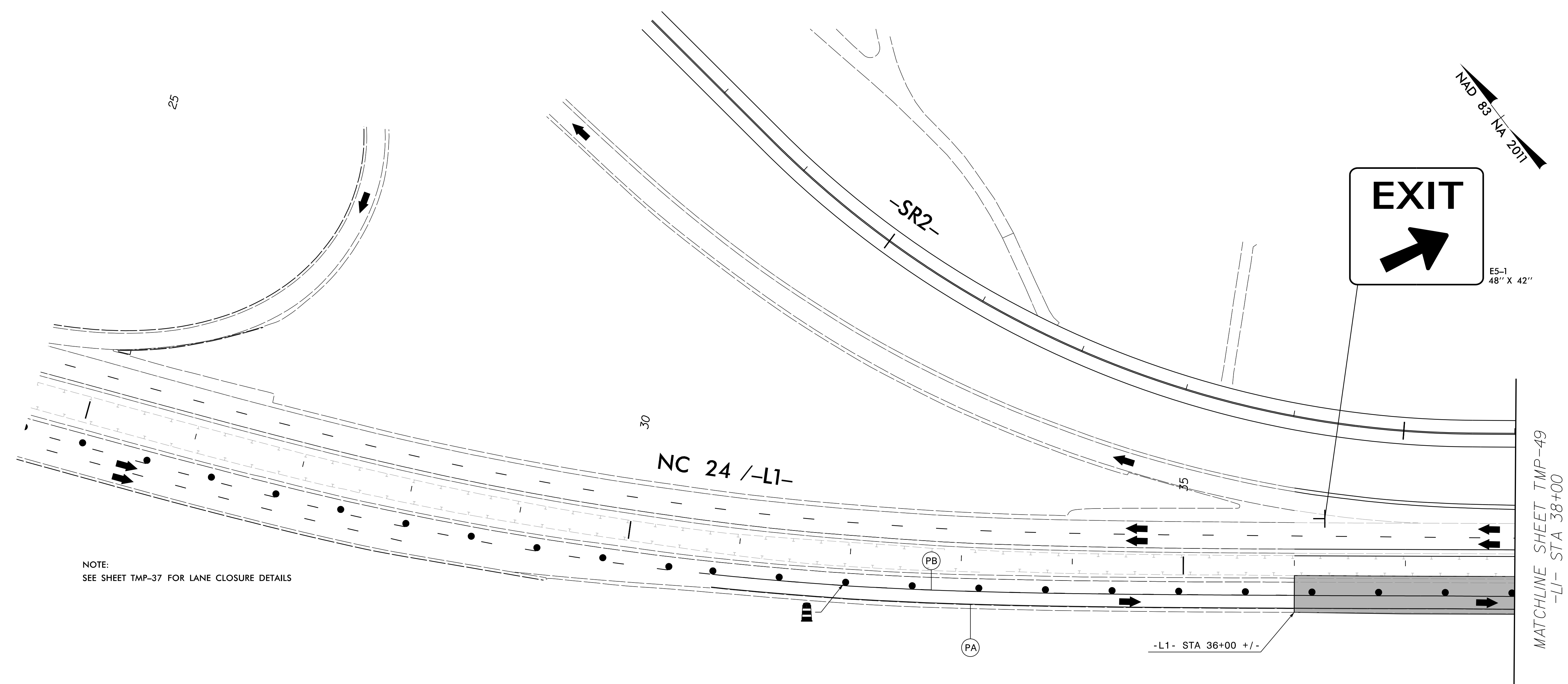
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SITE 2  
 PHASE 4, STEP 2  
 -L1-  
 CROSS-SECTIONS



NOTE:  
SEE SHEET TMP-37 FOR LANE CLOSURE DETAILS

11/5/2019  
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 gmedlin

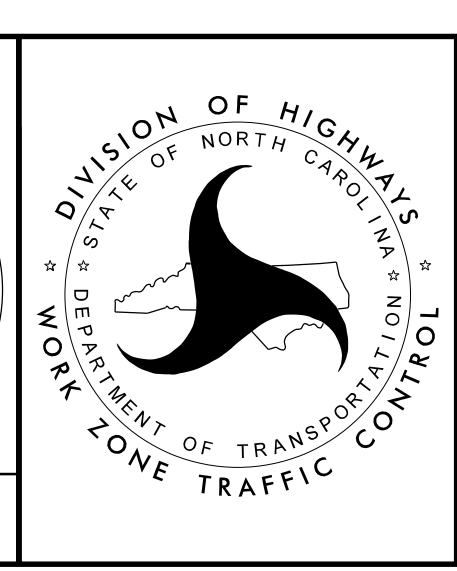
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DATE: 11/5/2019

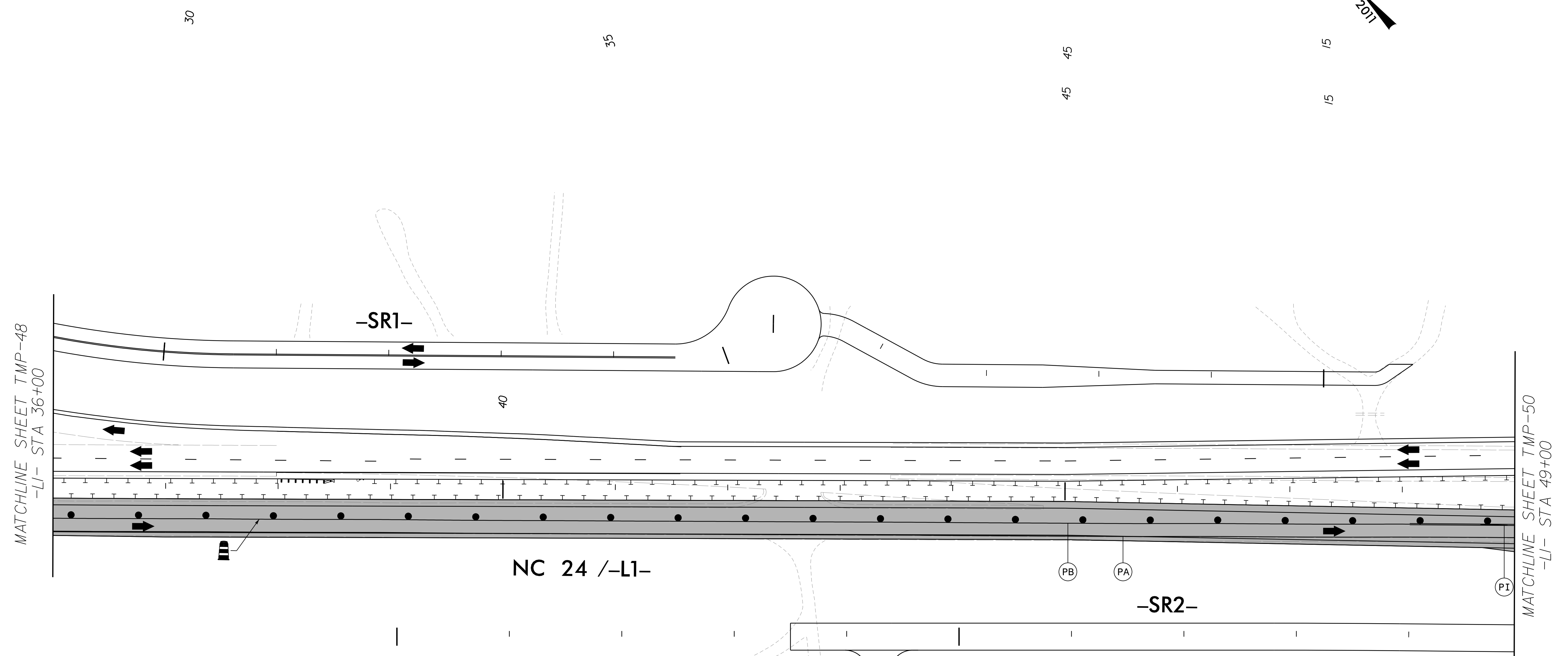
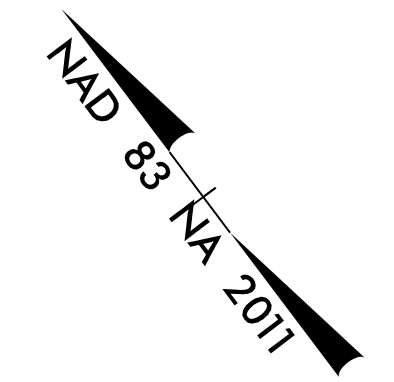
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**SITE 2**  
**PHASE 4, STEP 3 DETAILS**  
**-L1-**

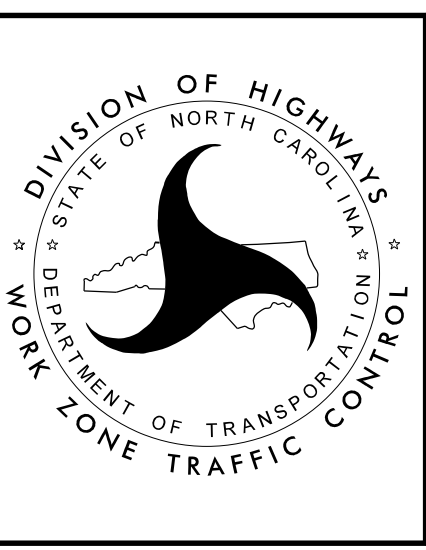
PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-49



11/5/2019  
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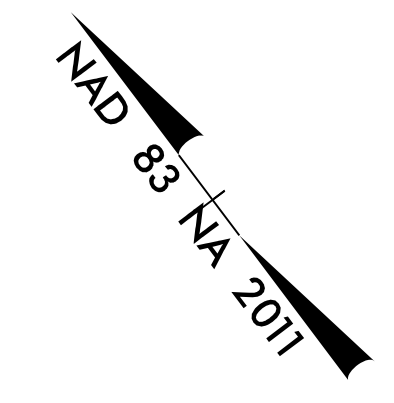
SITE 2  
 PHASE 4, STEP 3 DETAILS  
 -L1-

SEE TMP-54 FOR -L1- CROSS SECTION

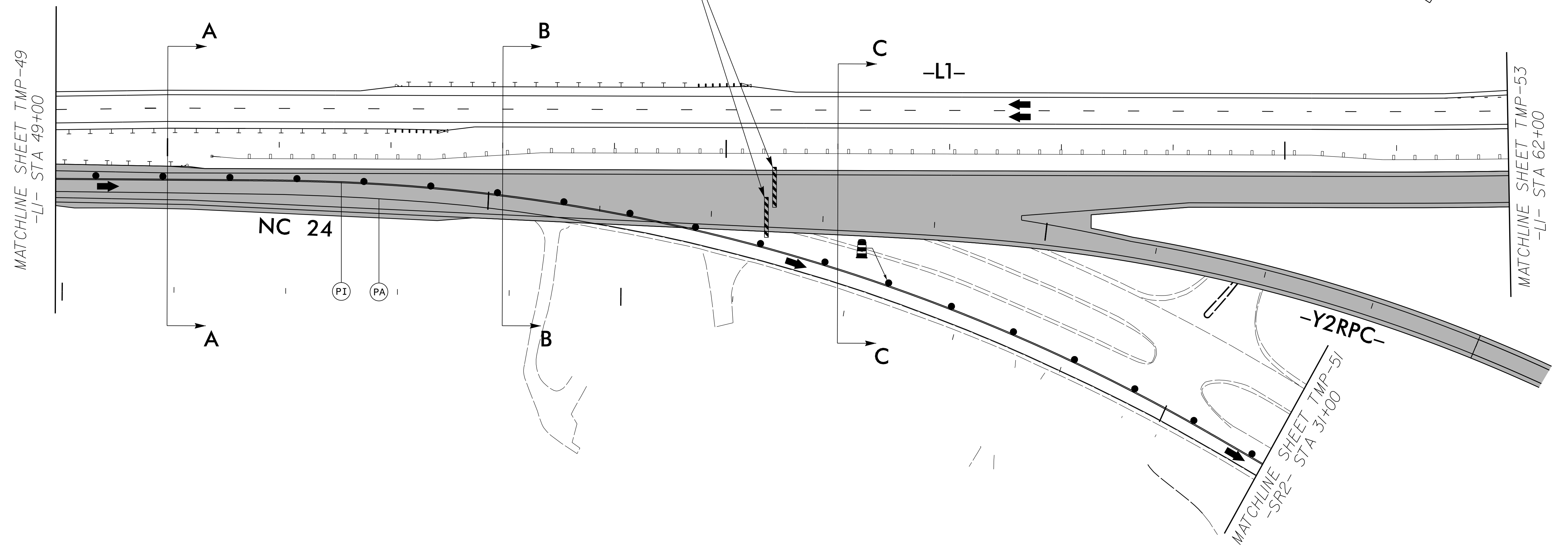
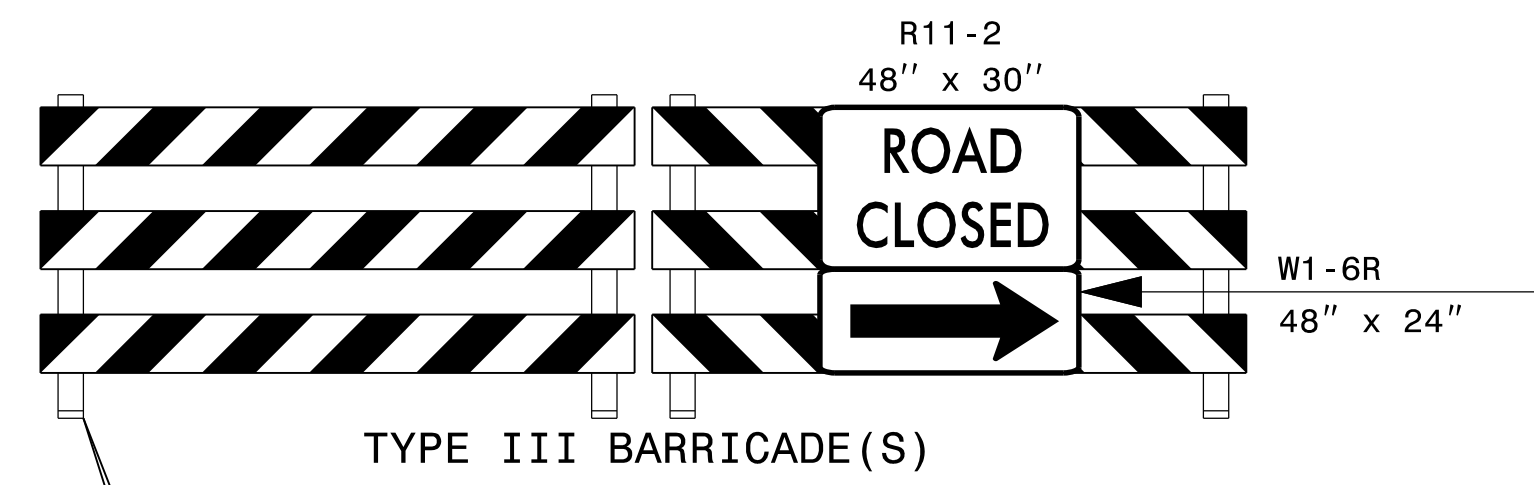
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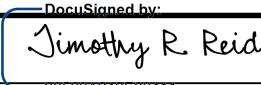


Byrd-Yancey-Bass Rd

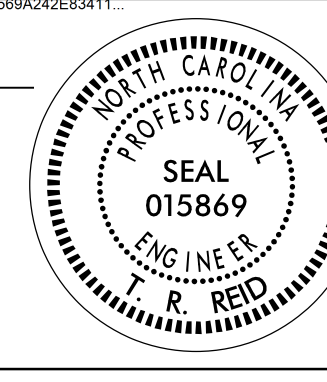


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DATE: 11/5/2019

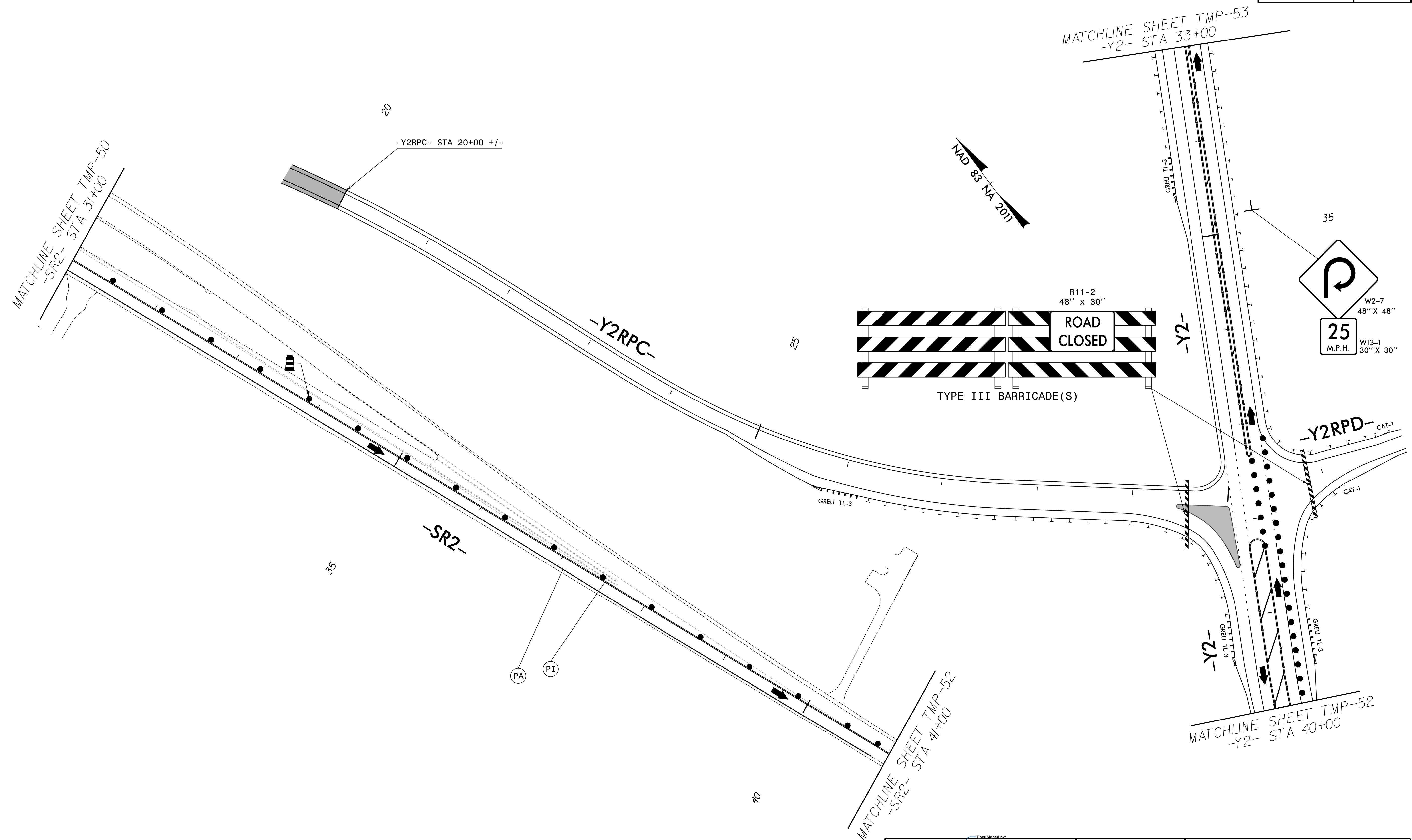
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SITE 2  
PHASE 4, STEP 3 DETAILS  
-L1-



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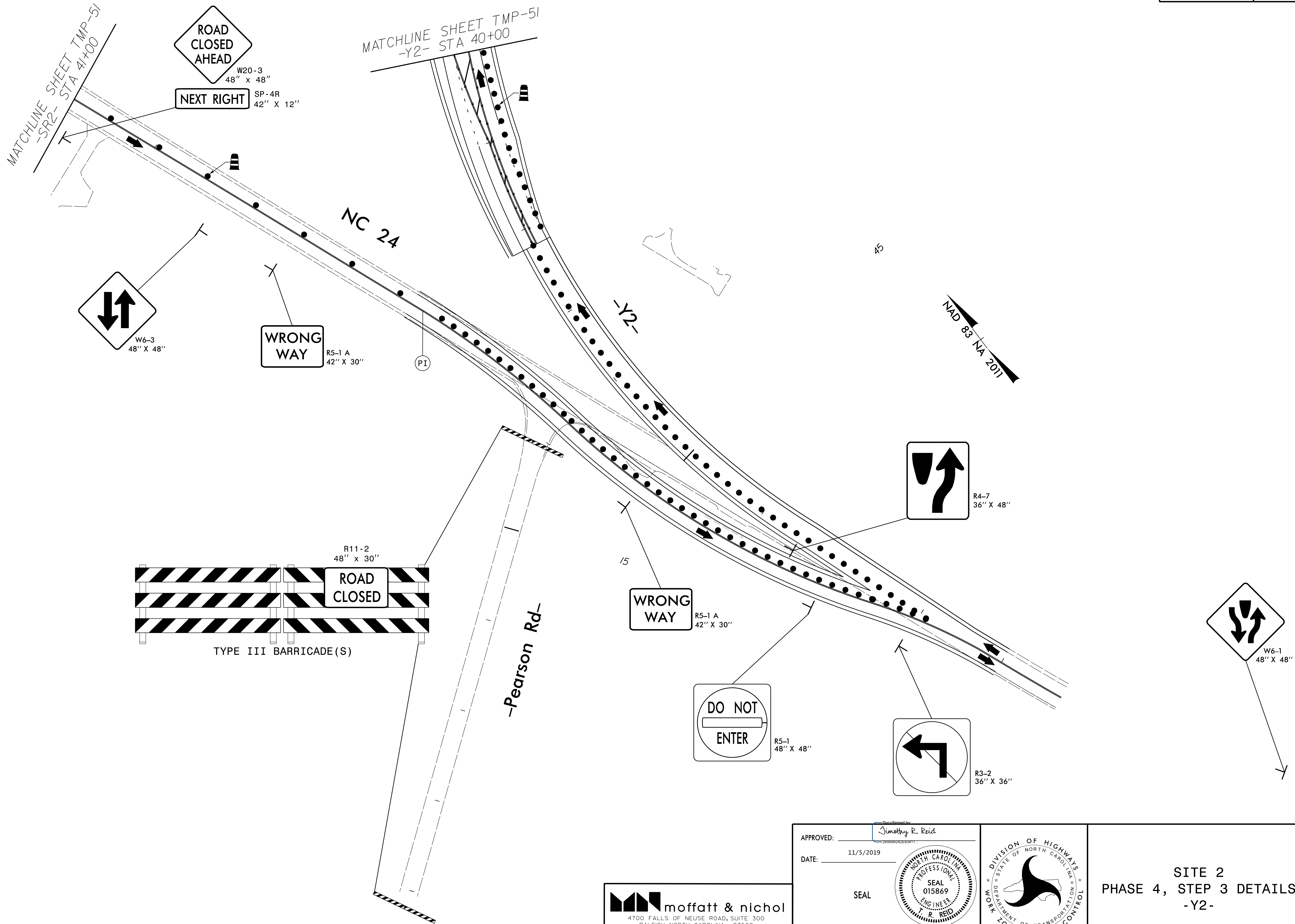
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 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

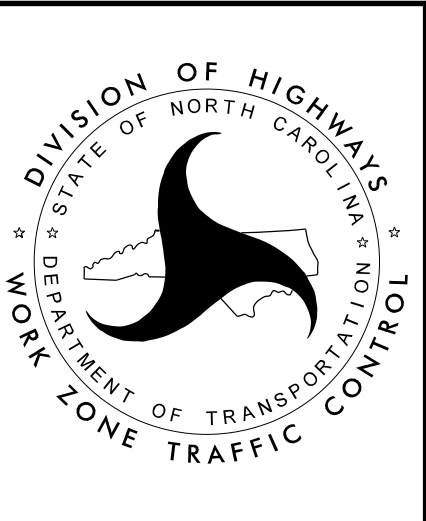
**SITE 2**  
**PHASE 4, STEP 3 DETAILS**  
**-Y2-**



11/5/2019  
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 NC License NO.: F-0105

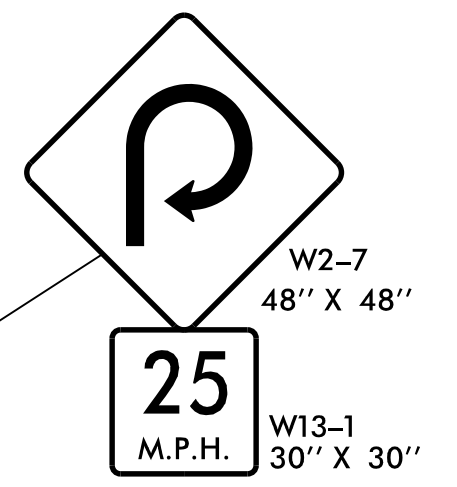
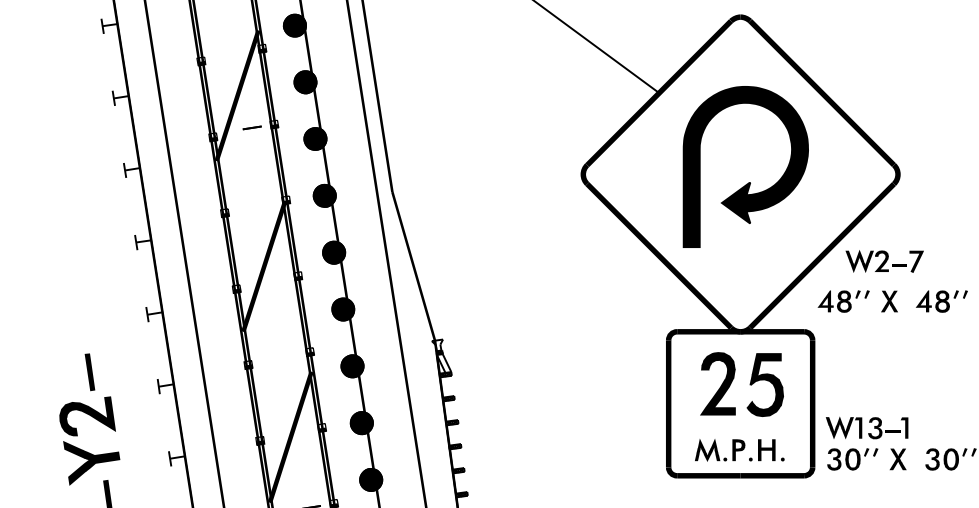
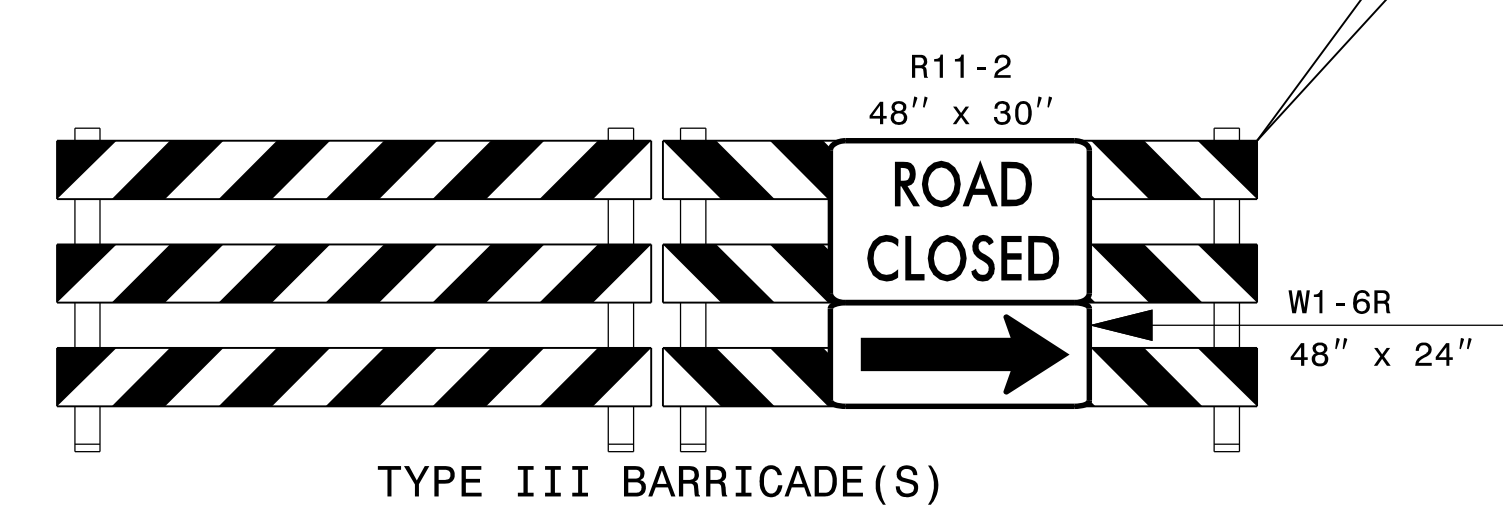
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 DATE: 11/5/2019  
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 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

**SITE 2  
 PHASE 4, STEP 3 DETAILS  
 -Y2-**

Byrd-Yancey-Bass Rd



MATCHLINE SHEET TMP-50  
-L1- STA 62+00

-L1- STA 63+50 +/-

MATCHLINE SHEET TMP-51  
-Y2- STA 33+00

11/5/2019  
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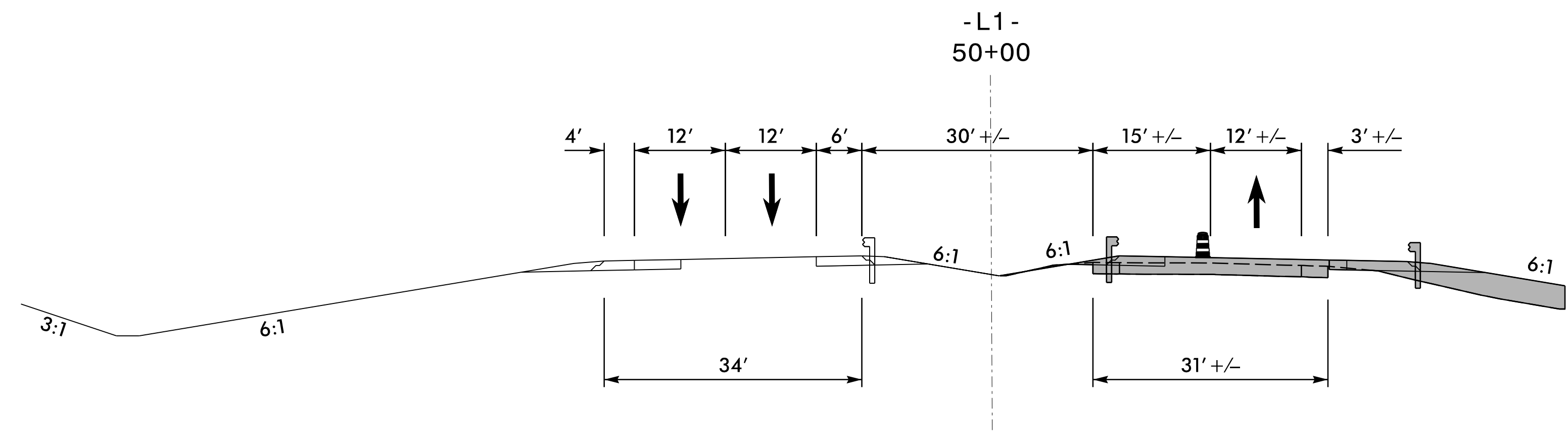
APPROVED: Timothy R. Reid  
DATE: 11/5/2019

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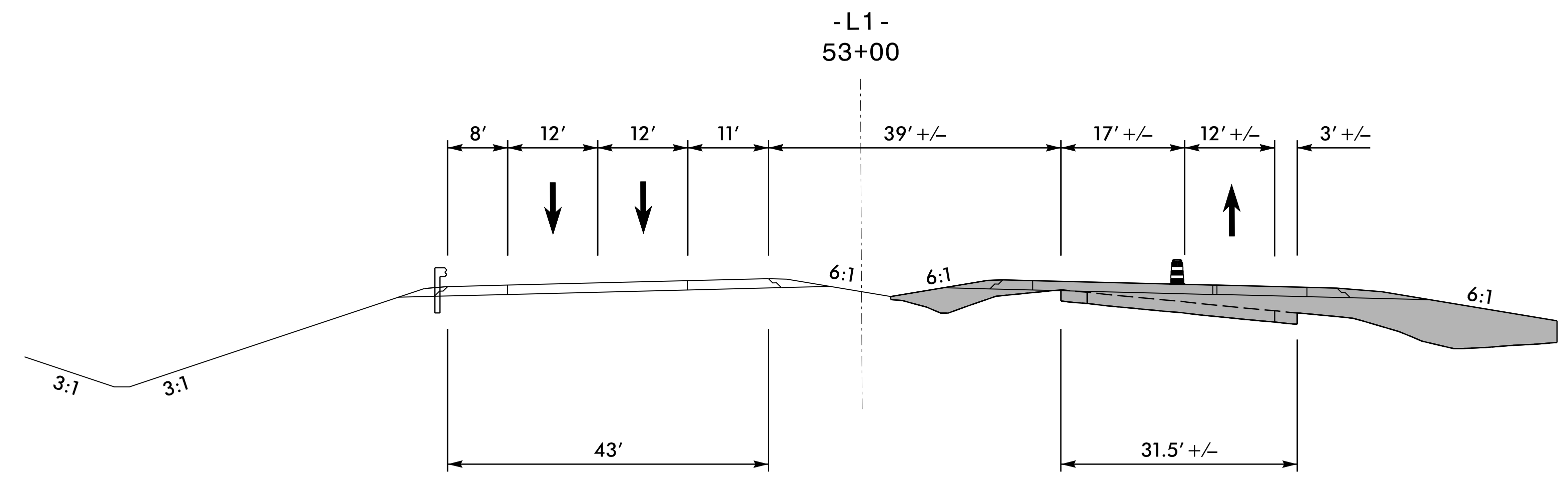
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SEAL  
015869  
T. R. REID  
ENGINEER

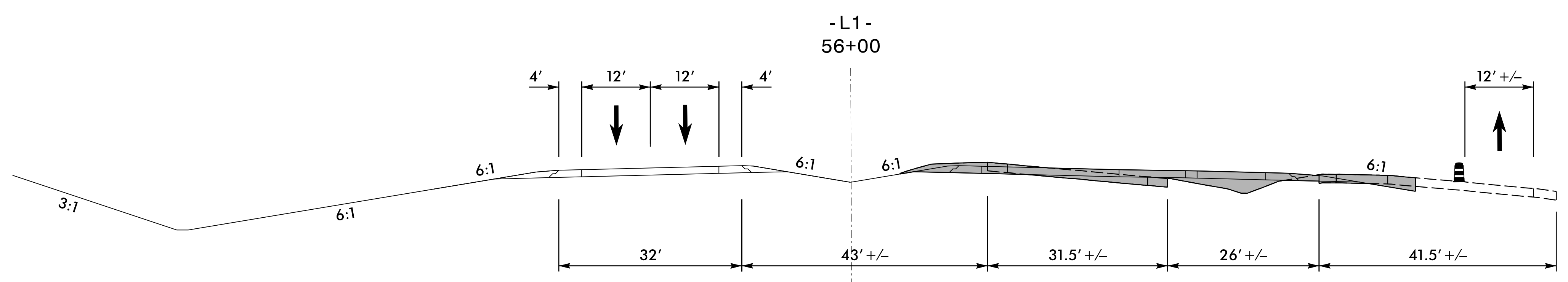
**SITE 2  
PHASE 4, STEP 3 DETAILS  
-L1-**



SECTION A-A  
PHASE 4, STEP 3



SECTION B-B  
PHASE 4, STEP 3

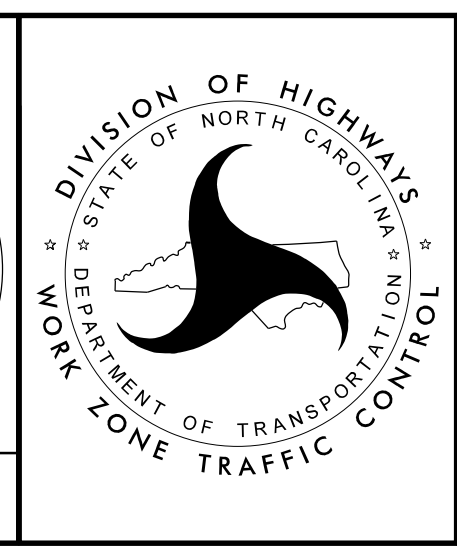


SECTION C-C  
PHASE 4, STEP 3

11/5/2019  
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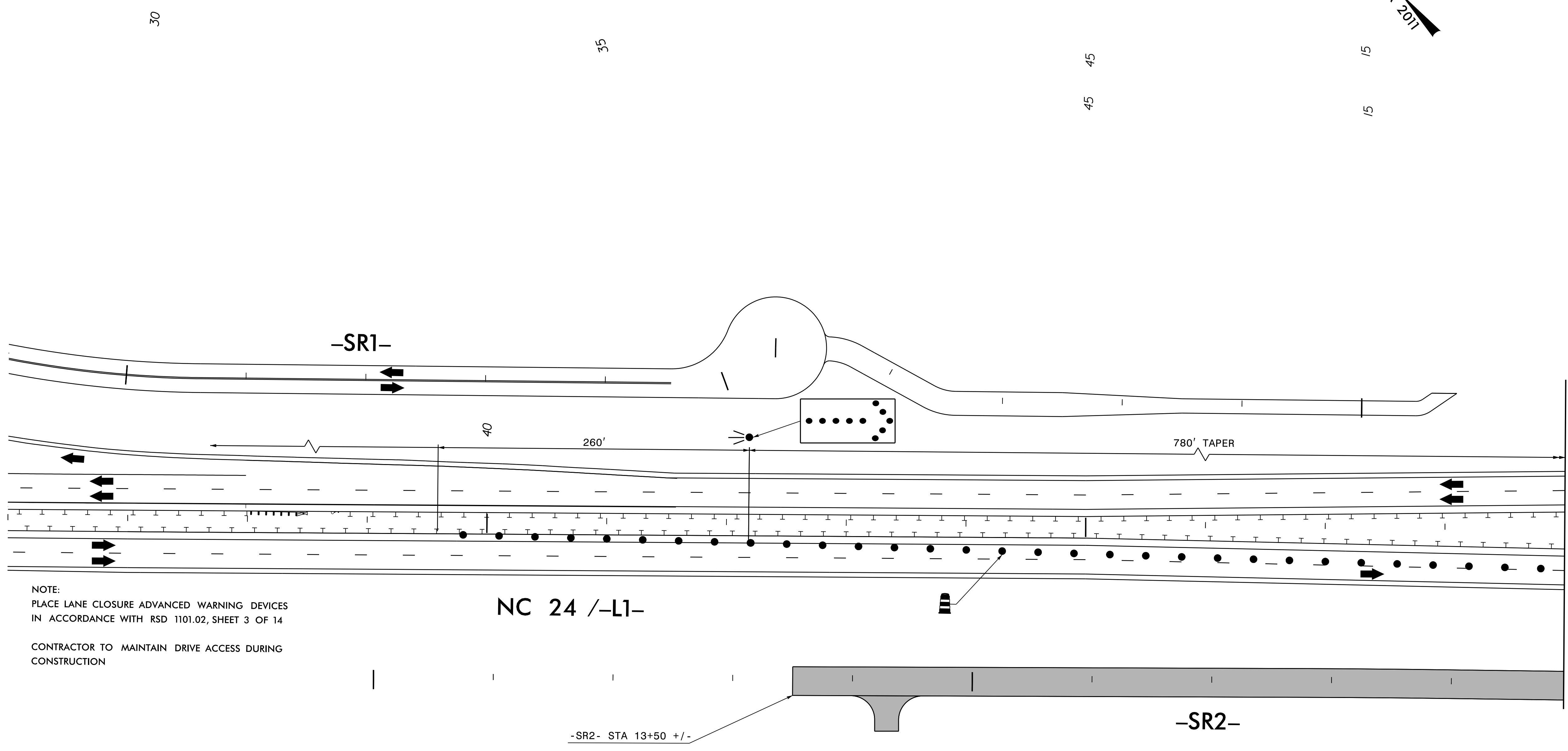
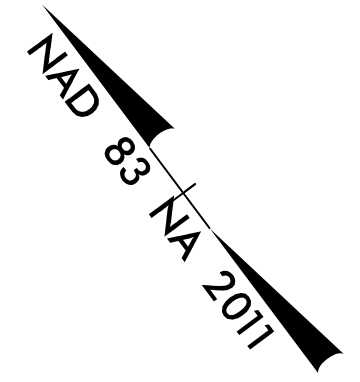


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**SITE 2  
 PHASE 4, STEP 3  
 -L1-  
 CROSS-SECTIONS**



PROJ. REFERENCE NO.	SHEET NO.
R-2303E	TMP-55



NOTE:  
 PLACE LANE CLOSURE ADVANCED WARNING DEVICES  
 IN ACCORDANCE WITH RSD 1101.02, SHEET 3 OF 14

CONTRACTOR TO MAINTAIN DRIVE ACCESS DURING  
 CONSTRUCTION

NC 24 /-L1-

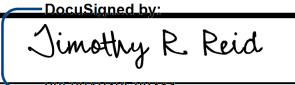
-SR2- STA 13+50 +/-

-SR2-

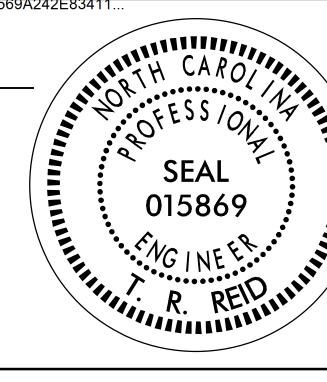
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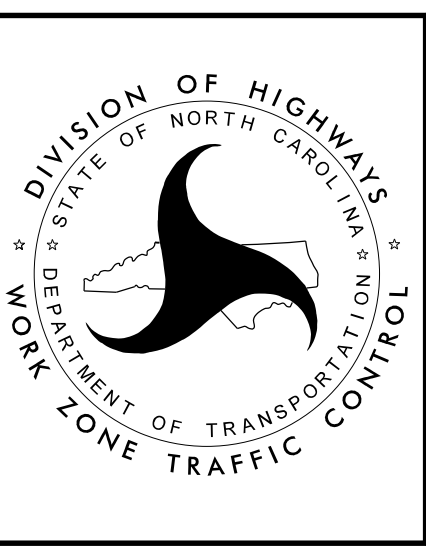
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 NC License NO.: F-0105

APPROVED:   
 DATE: 11/5/2019

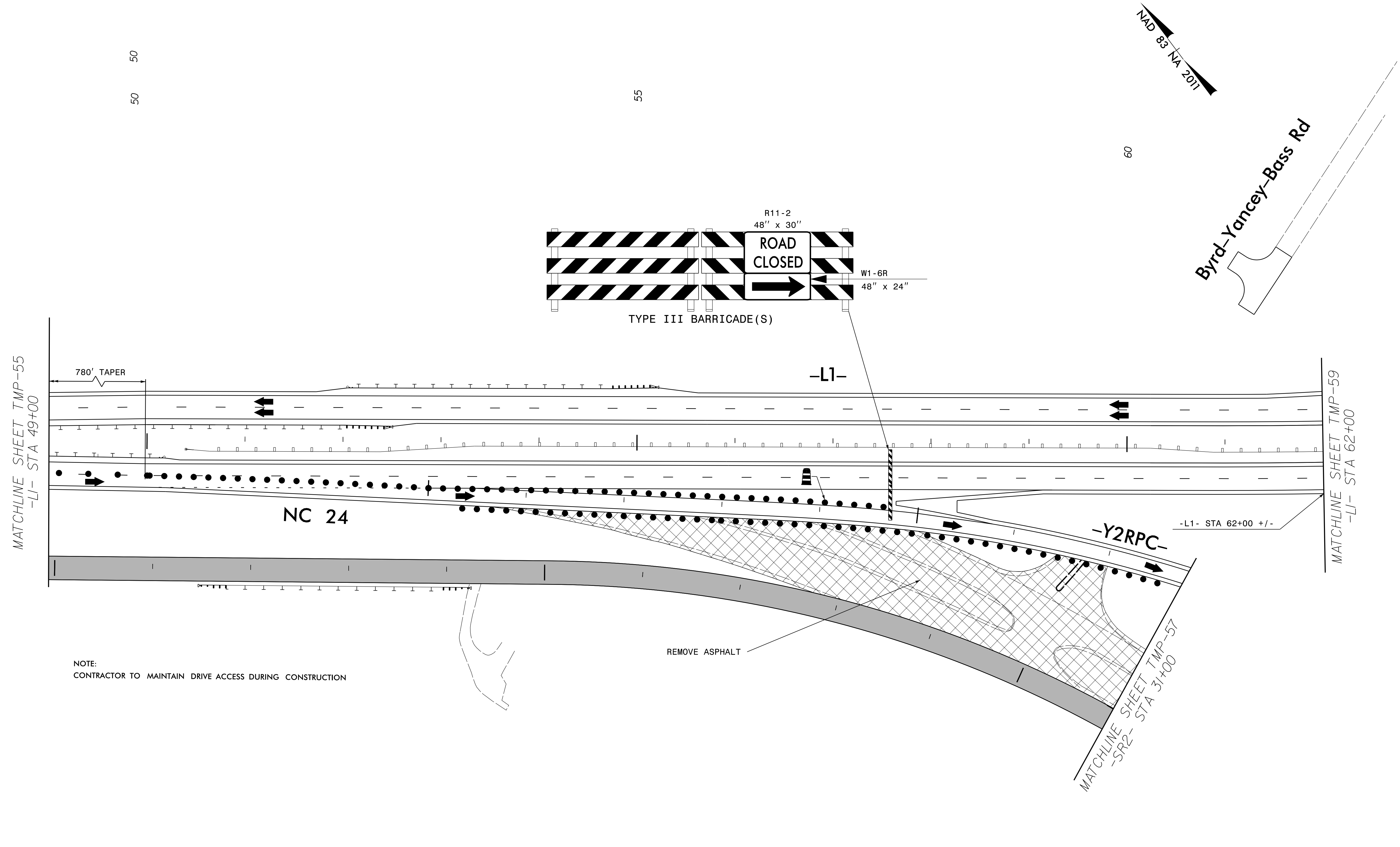
SEAL



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SITE 2  
 PHASE 4, STEP 4 DETAILS  
 -L1-



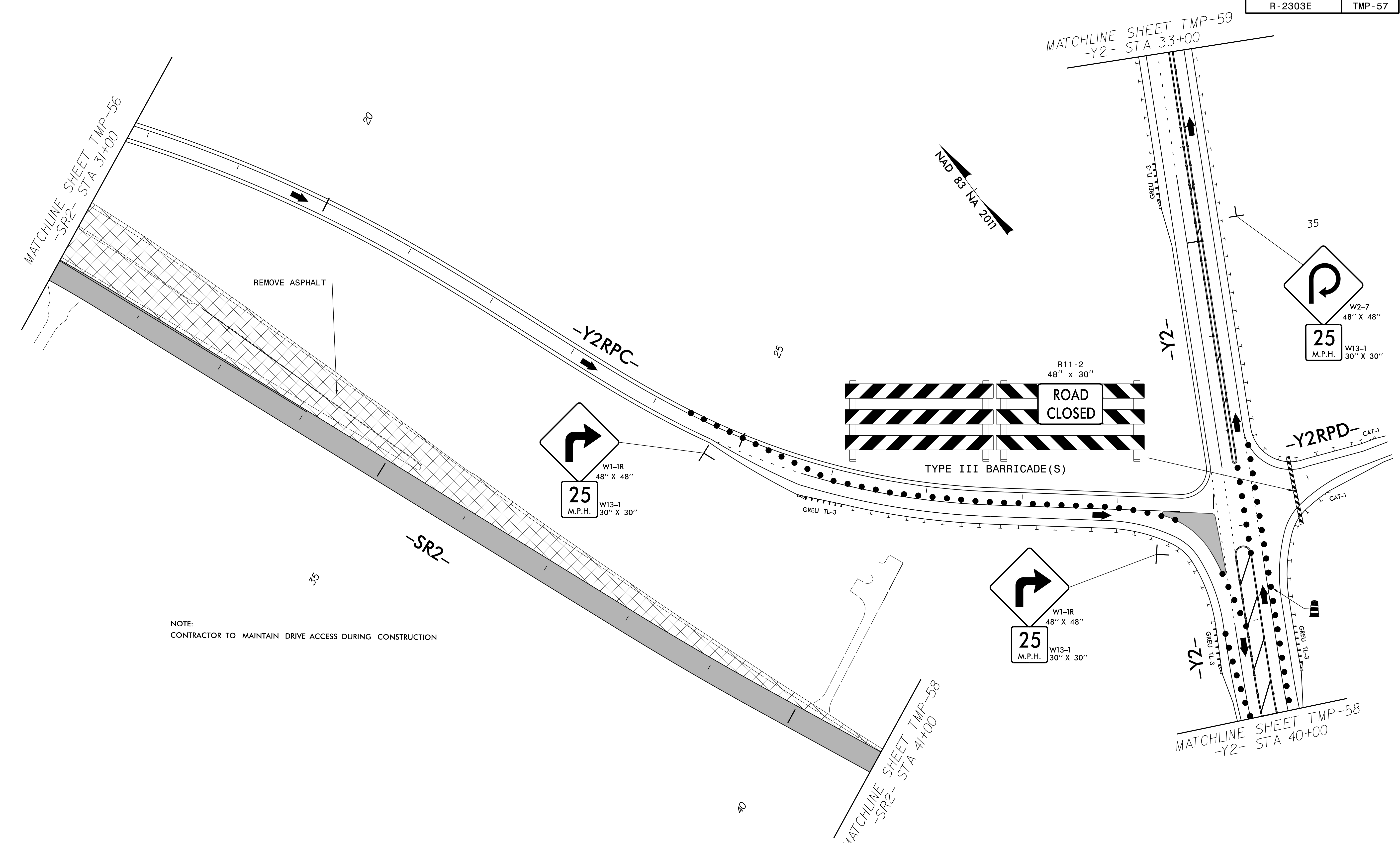
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SITE 2  
 PHASE 4, STEP 4 DETAILS  
 -L1-



NOTE:  
CONTRACTOR TO MAINTAIN DRIVE ACCESS DURING CONSTRUCTION

11/5/2019  
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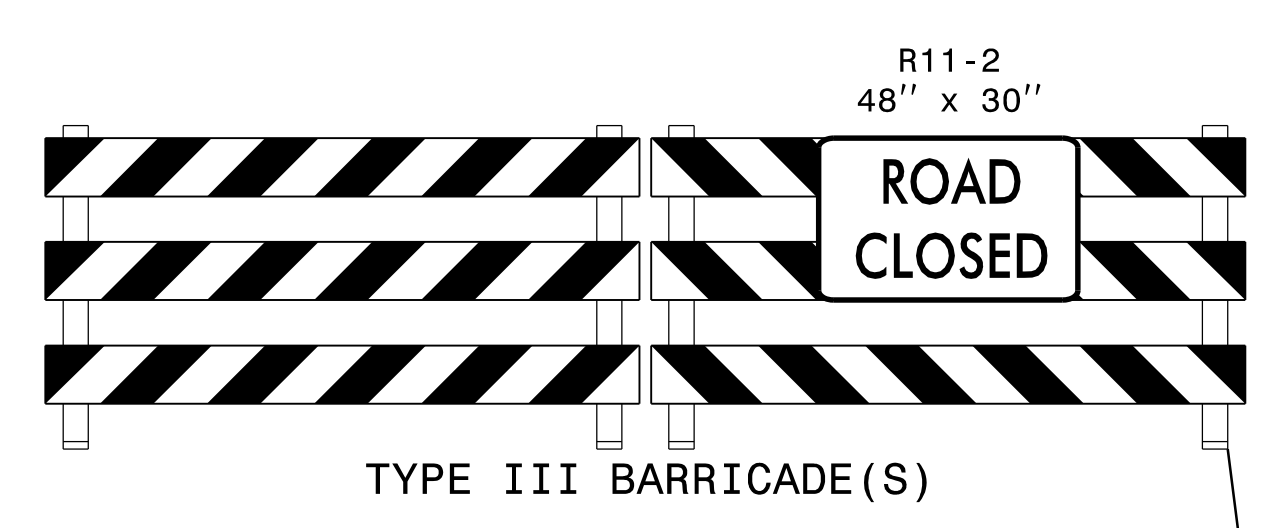
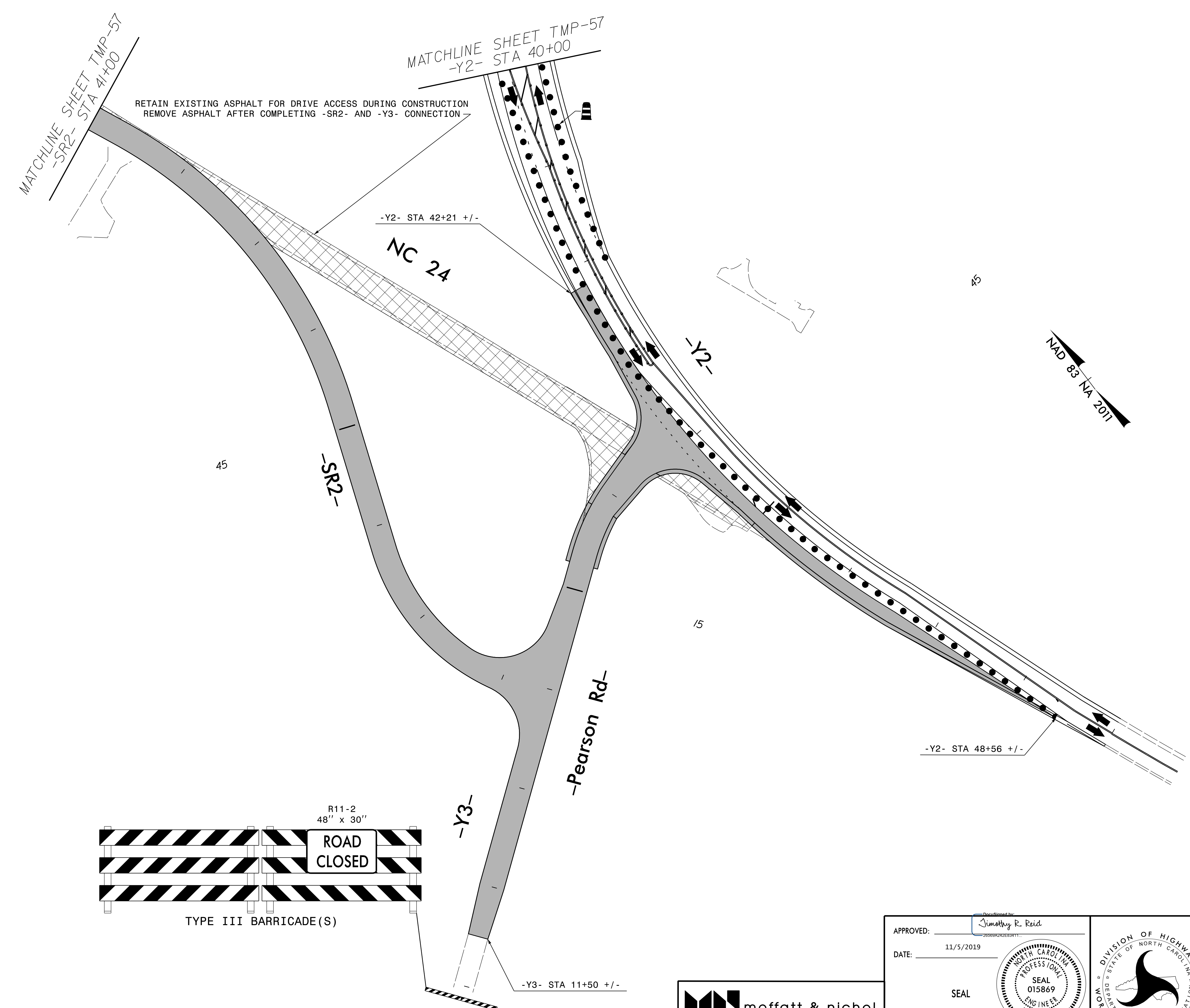
APPROVED: *Timothy R. Reid*

DATE: 11/5/2019

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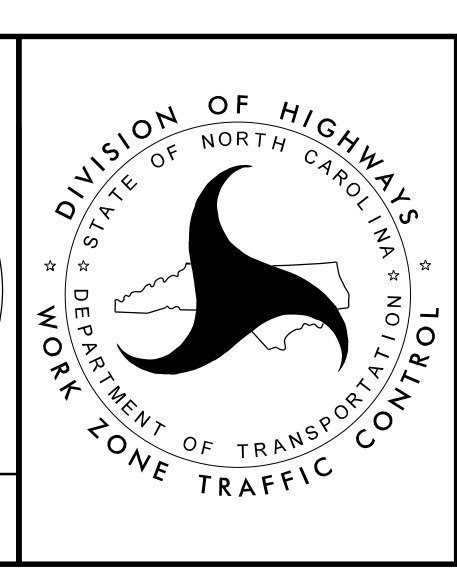
**SITE 2**  
**PHASE 4, STEP 4 DETAILS**  
**-Y2-**



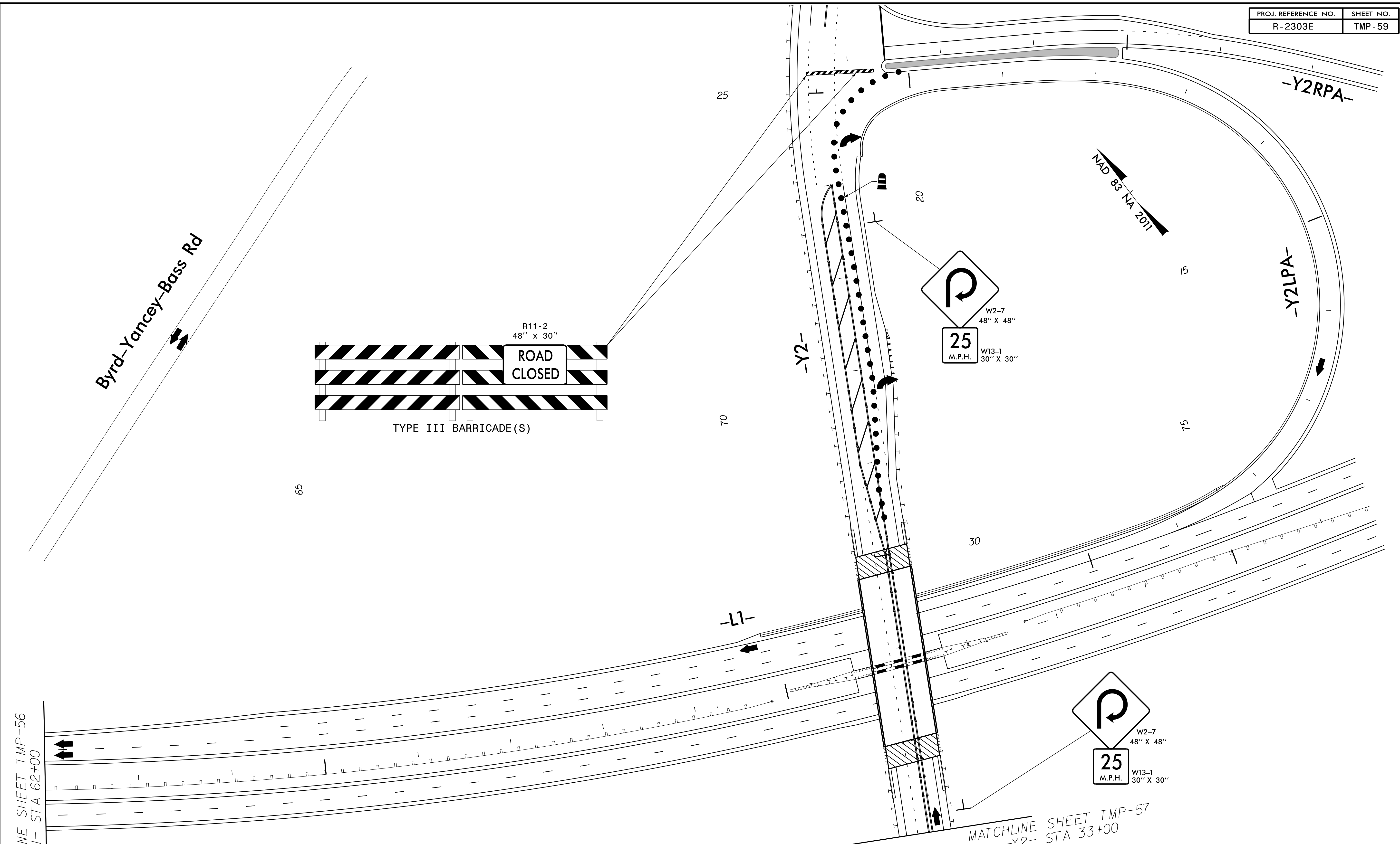
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 gmedlin

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SITE 2  
 PHASE 4, STEP 4 DETAILS  
 -Y2-



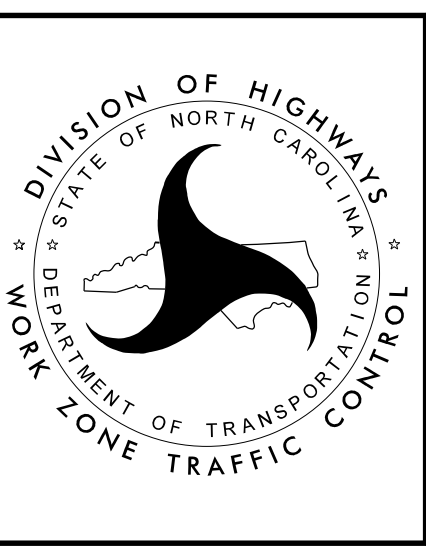
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 gmedlin

MATCHLINE SHEET TMP-56  
-L1- STA 62+00

MATCHLINE SHEET TMP-57  
-Y2- STA 33+00

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 -L1-