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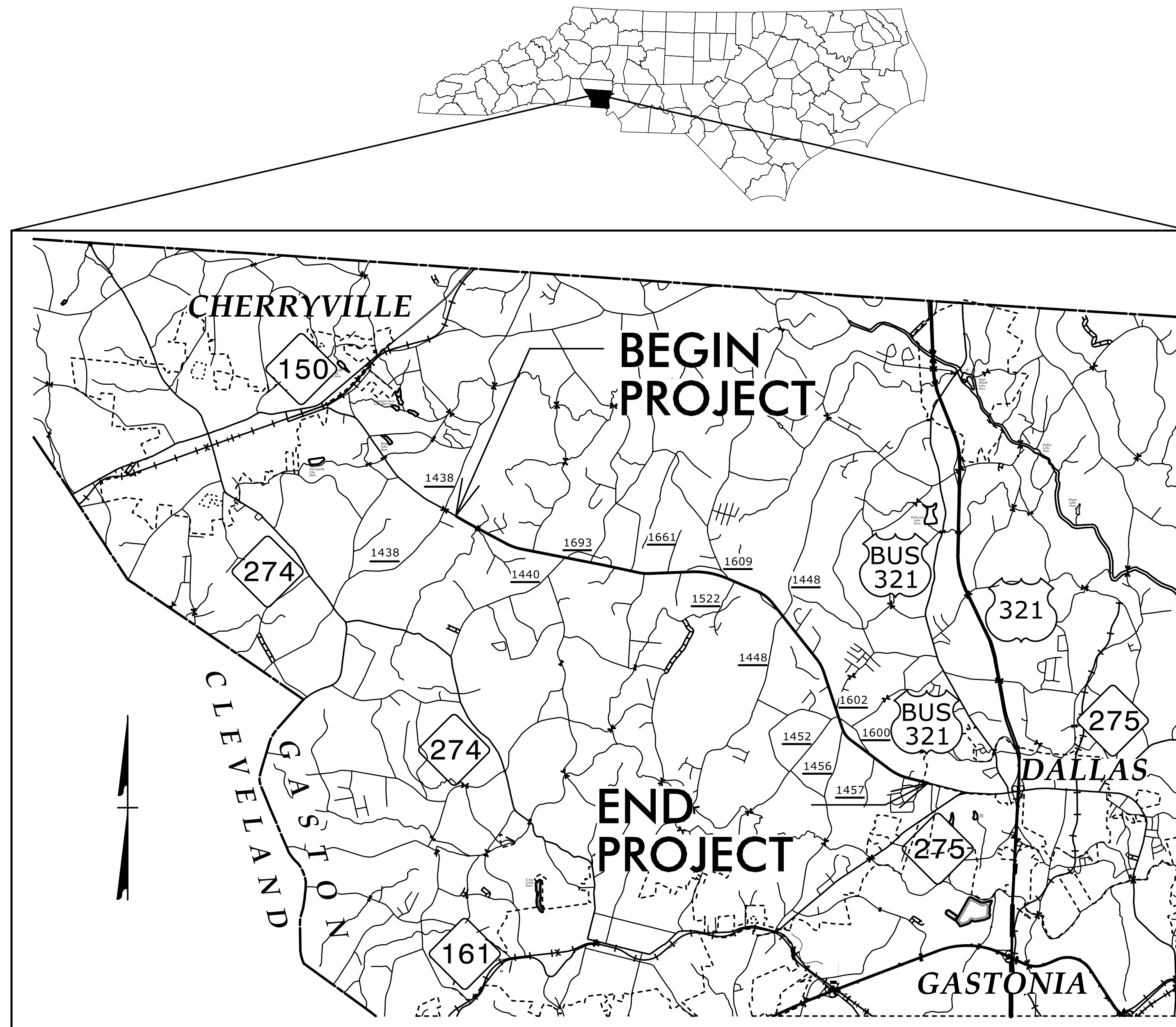
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STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**

**GASTON COUNTY**



**VICINITY MAP**

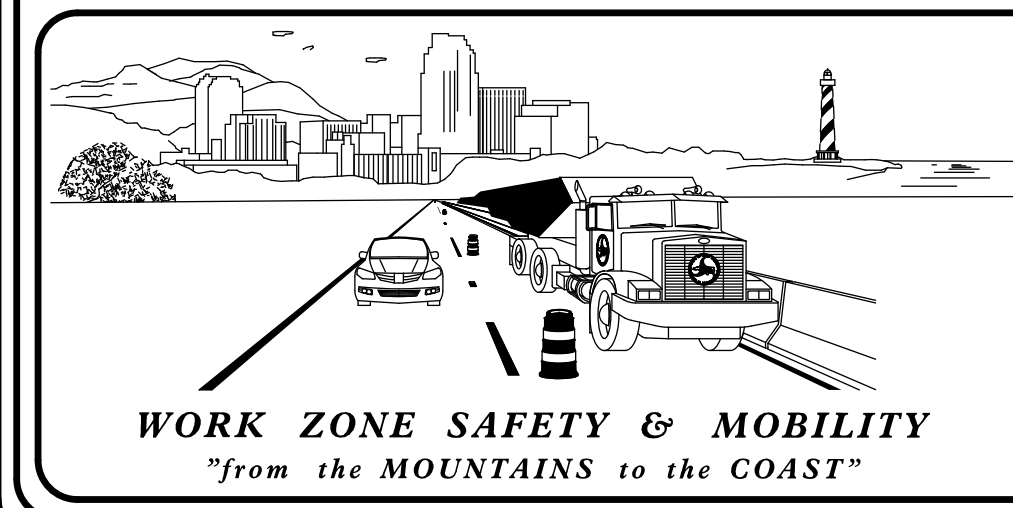
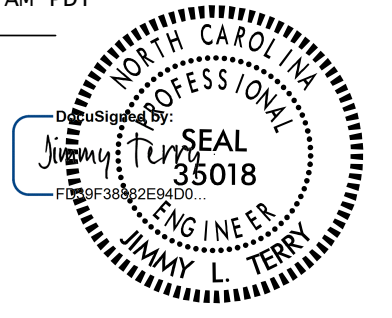
<b><u>INDEX OF SHEETS</u></b>	
<u>SHEET NO.</u>	<u>TITLE</u>
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND LEGEND
TMP-1B	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)
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SHEET NO.  
TMP-1

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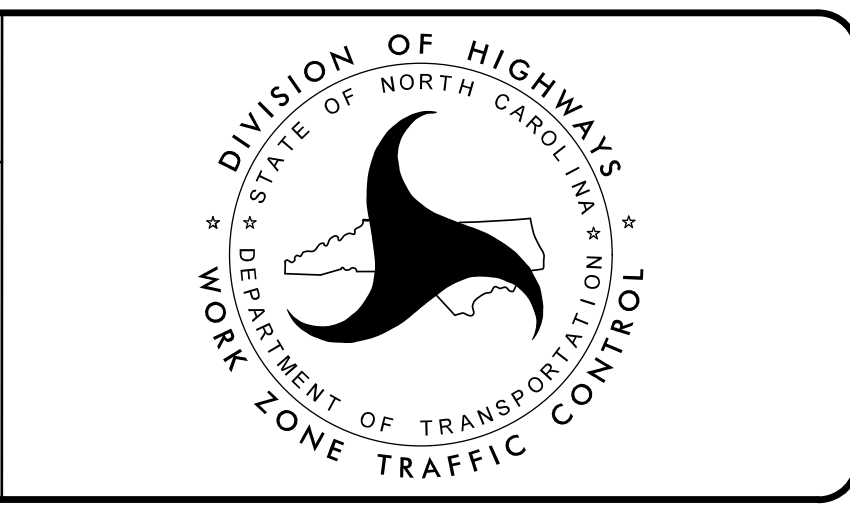
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PLAN PREPARED FOR N.C.D.O.T. BY:

<p><b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	<p>JIMMY L. TERRY, PE <b>PROJECT ENGINEER</b></p>
	<p>SANDRA G. MELVIN <b>DESIGN TECHNICIAN</b></p>



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**TIP PROJECT: W-5212N**



# 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
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

# LEGEND

## GENERAL

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

WORK AREA

REMOVAL

USER DEFINED (IF NEEDED)

USER DEFINED (IF NEEDED)

## SIGNALS

- EXISTING
- PROPOSED
- TEMPORARY

## PAVEMENT MARKINGS

- EXISTING LINES
- TEMPORARY LINES

## 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

## TEMPORARY PAVEMENT MARKING

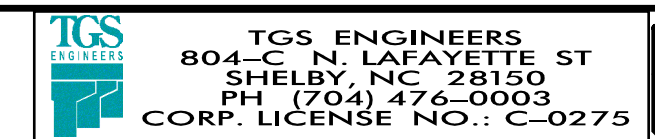
SYMBOL	DESCRIPTION
	PAINT (4")
PA	WHITE EDGELINE
PE	WHITE SOLID LANE LINE
PF	10 FT. YELLOW SKIP
PH	YELLOW SINGLE CENTER
PI	YELLOW DOUBLE CENTER
	PAINTMARKING SYMBOLS
QA	LEFT TURN ARROW

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## GENERAL NOTES



PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-1B

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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

**TIME RESTRICTIONS**

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

ROAD NAME	DAY AND TIME RESTRICTIONS
NC 279	MONDAY TO FRIDAY 7:00 AM TO 9:00 AM MONDAY TO FRIDAY 4:00 PM TO 6:00 PM

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

**ROAD NAME**

NC 279

**HOLIDAY**

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

6. FOR LABOR DAY, BETWEEN THE HOURS OF 4:00 P.M. FRIDAY AND 9:00 A.M. TUESDAY.

7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 4:00 P.M. TUESDAY TO 9:00 A.M. MONDAY.

8. FOR CHRISTMAS, BETWEEN THE HOURS OF 4:00 P.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 A.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

C) 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.

D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

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

**PAVEMENT EDGE DROP OFF REQUIREMENTS**

H) 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.

I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

**TRAFFIC PATTERN ALTERATIONS**

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

**SIGNING**

K) 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.

L) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

M) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 100 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

**TRAFFIC BARRIER**

N) 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.

O) 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

**TRAFFIC CONTROL DEVICES**

P) 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.

**PAVEMENT MARKINGS AND MARKERS**

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

ROAD NAME	MARKING	MARKER
NC 279	PAINT	NONE

R) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE.

S) 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.

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

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

## LOCAL NOTES

UNLESS OTHERWISE NOTED PROVIDE ACCESS TO ALL DRIVES AND SIDE STREETS AT ALL TIMES.

TWO WAY THROUGH TRAFFIC SHALL BE MAINTAINED ON TWO 11 FT (MIN.) LANES AT ALL TIMES WHILE FLAGGERS ARE NOT AT WORK.


## MANAGEMENT STRATEGIES

THE PROPOSED NC 279 (-L-) WILL BE CONSTRUCTED USING TEMPORARY LANE CLOSURES UTILIZING FLAGGERS AS NEEDED.

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<b>TRANSPORTATION OPERATIONS PLAN</b>		
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# PHASING

PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-2
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

NOTE:  
UNLESS OTHERWISE NOTED PROVIDE ACCESS TO ALL DRIVES AND SIDE STREETS AT ALL TIMES.

TWO WAY THROUGH TRAFFIC SHALL BE MAINTAINED ON TWO 11 FT (MIN.) LANES AT ALL TIMES WHILE FLAGGERS ARE NOT AT WORK.

## PHASE I

### STEP 1:

INSTALL ALL ADVANCED WORK ZONE WARNING SIGNS ON -L- AND ALL -Y- LINES IN ACCORDANCE WITH NCDOT RDY STD DRAWING 1101.01, SHEET 3 OF 3.

NOTE:  
WORK DESCRIBED IN STEPS 2 AND 3 OF PHASE 1 TAKES PLACE IN 4 DIFFERENT AREAS (A TO D) AND THE CONTRACTOR CAN WORK CONCURRENTLY IN ALL.  
RETURN TRAFFIC TO ITS EXISTING TRAFFIC PATTERN AT THE END OF EACH WORK PERIOD.

### STEP 2:

AREA A:  
WITH TRAFFIC IN ITS EXISTING PATTERN DO THE FOLLOWING:

CONSTRUCT THE PROPOSED CULVERT EXTENSION. USE PORTABLE CONCRETE BARRIER TO PROTECT WORKZONE. (SEE TMP-3, TMP-4, AND STRUCTURE PLANS).

BEGIN ROADWAY DRAINAGE CONSTRUCTION (SEE ROADWAY PLANS).

USING TEMPORARY LANE CLOSURES AND FLAGGERS CONSTRUCT THE NORTHSIDE AND SOUTHSIDE WIDENING AND PAVED SHOULDERS UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE OF NC 279 FROM -L- STA. 24+50 TO -L- STA. 85+35

PROVIDE TIE-INS FOR ALL DRIVEWAYS AND Y-LINES AS SHOWN ON PLANS (TMP-4)

PLACE GUARDRAIL AS SHOWN ON PLANS (SEE ROADWAY PLANS)

PLACE SHOULDER BERM GUTTER AS SHOWN ON PLANS (SEE ROADWAY PLANS)

(SEE TMP-3, TMP-4 , NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14, AND NCDOT RDY STD DWG 1101.04.)

AREA B:  
WITH TRAFFIC IN ITS EXISTING PATTERN DO THE FOLLOWING:

BEGIN ROADWAY DRAINAGE CONSTRUCTION (SEE ROADWAY PLANS).

USING TEMPORARY LANE CLOSURES AND FLAGGERS CONSTRUCT THE NORTHSIDE AND SOUTHSIDE WIDENING AND PAVED SHOULDERS UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE OF NC 279 FROM -L- STA. 164+00 TO -L- STA. 224+50

PROVIDE TIE-INS FOR ALL DRIVEWAYS AND Y-LINES AS SHOWN ON PLANS (TMP-5)

PLACE GUARDRAIL AS SHOWN ON PLANS (SEE ROADWAY PLANS)

PLACE SHOULDER BERM GUTTER AS SHOWN ON PLANS (SEE ROADWAY PLANS)

(SEE TMP-3, TMP-5, AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14 AND DWG 1101.04)

AREA C:  
WITH TRAFFIC IN ITS EXISTING PATTERN DO THE FOLLOWING:

CONSTRUCT THE PROPOSED CULVERT EXTENSION. USE PORTABLE CONCRETE BARRIER TO PROTECT WORKZONE. (SEE TMP-3, TMP-6, AND STRUCTURE PLANS).

BEGIN ROADWAY DRAINAGE CONSTRUCTION (SEE ROADWAY PLANS).

USING TEMPORARY LANE CLOSURES AND FLAGGERS CONSTRUCT THE NORTHSIDE AND SOUTHSIDE WIDENING AND PAVED SHOULDERS UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE OF NC 279 FROM -L- STA. 310+87 TO -L- STA. 349+45

PROVIDE TIE-INS FOR ALL DRIVEWAYS AND Y-LINES AS SHOWN ON PLANS (TMP-6)

PLACE GUARDRAIL AS SHOWN ON PLANS (SEE ROADWAY PLANS)

PLACE SHOULDER BERM GUTTER AS SHOWN ON PLANS (SEE ROADWAY PLANS)

(SEE TMP-3, TMP-6, NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14, AND NCDOT RDY STD DWG 1101.04)

AREA D:  
WITH TRAFFIC IN ITS EXISTING PATTERN DO THE FOLLOWING:

BEGIN ROADWAY DRAINAGE CONSTRUCTION (SEE ROADWAY PLANS).

USING TEMPORARY LANE CLOSURES AND FLAGGERS CONSTRUCT THE NORTHSIDE AND SOUTHSIDE WIDENING AND PAVED SHOULDERS UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE OF NC 279 FROM -L- STA. 364+50 TO -L- STA. 439+00

PROVIDE TIE-INS FOR ALL DRIVEWAYS AND Y-LINES AS SHOWN ON PLANS (TMP-6).

PLACE GUARDRAIL AS SHOWN ON PLANS (SEE ROADWAY PLANS).

PLACE SHOULDER BERM GUTTER AS SHOWN ON PLANS (SEE ROADWAY PLANS)

(SEE TMP-3, TMP-7, NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14, AND NCDOT RDY STD DWG 1101.04)

### STEP 3:

AREA A:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS, AND SHIFT TRAFFIC WHEN NECESSARY WEDGE THE EXISTING PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
NC 279 FROM -L- STA 24+50 TO -L- STA. 85+35  
(SEE TMP-3, TMP-4, AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

AREA B:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS, AND SHIFT TRAFFIC WHEN NECESSARY WEDGE THE EXISTING PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
NC 279 FROM -L- STA 164+00 TO -L- STA. 224+50  
(SEE TMP-3, TMP-5, AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

AREA C:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS, AND SHIFT TRAFFIC WHEN NECESSARY WEDGE THE EXISTING PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
NC 279 FROM -L- STA. 310+87 TO -L- STA. 349+45  
(SEE TMP-3, TMP-6, AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

AREA D:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS, AND SHIFT TRAFFIC WHEN NECESSARY WEDGE THE EXISTING PAVEMENT UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
NC 279 FROM -L- STA. 364+50 TO -L- STA. 439+00  
(SEE TMP-3, TMP-7, AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

STEP 4:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS PLACE TEMPORAY PAVEMENT MARKINGS AS FOLLOWS:  
NC 279 FROM -L- STA 24+50 TO -L- STA. 85+35  
NC 279 FROM -L- STA 164+00 TO -L- STA. 224+50  
NC 279 FROM -L- STA 310+87 TO -L- STA. 349+45  
NC 279 FROM -L- STA 364+50 TO -L- STA. 439+00

(SEE TMP-8 TO TMP-11, NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

## PHASE II

STEP 1:  
WITH TRAFFIC IN ITS ORIGINAL PATTERN AND USING TEMPORARY LANE CLOSURES AND FLAGGERS PLACE THE FINAL LAYER OF SURFACE COURSE AS FOLLOWS:  
NC 279 FROM -L- STA. 24+50 TO -L- STA. 85+35 (AREA A)  
NC 279 FROM -L- STA. 164+00 TO -L- STA. 224+50 (AREA B)  
NC 279 FROM -L- STA. 310+87 TO -L- STA. 349+45 (AREA C)  
NC 279 FROM -L- STA. 364+50 TO -L- STA. 439+00 (AREA D)  
TIE-IN ALL Y-LINES

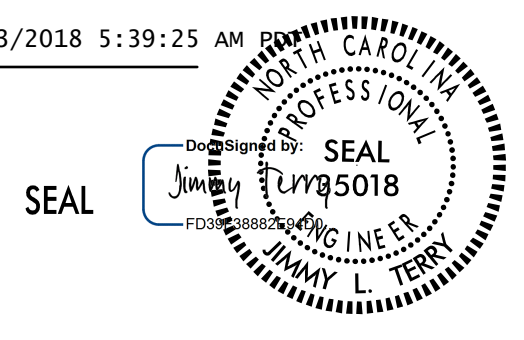

USING TEMPORARY LANE CLOSURES AND FLAGGERS RESURFACE THE AREAS BETWEEN CONSTRUCTION LIMITS AS FOLLOWS:  
NC 279 FROM -L- STA. 85+35 TO -L- STA. 164+00  
NC 279 FROM -L- STA. 224+50 TO -L- STA. 310+87  
NC 279 FROM -L- STA. 349+45 TO -L- STA. 364+50


PRIOR TO RESURFACING PATCH, MILL AND OR WEDGE THE EXISTING PAVEMENT AS NECESSARY. RESURFACE ALL SIDE STREETS AND DRIVEWAYS AS NECESSARY TO TIE-IN.  
(SEE TMP-12 AND NCDOT RDY STD DWG 1101.02, SHEET 1 OF 14)

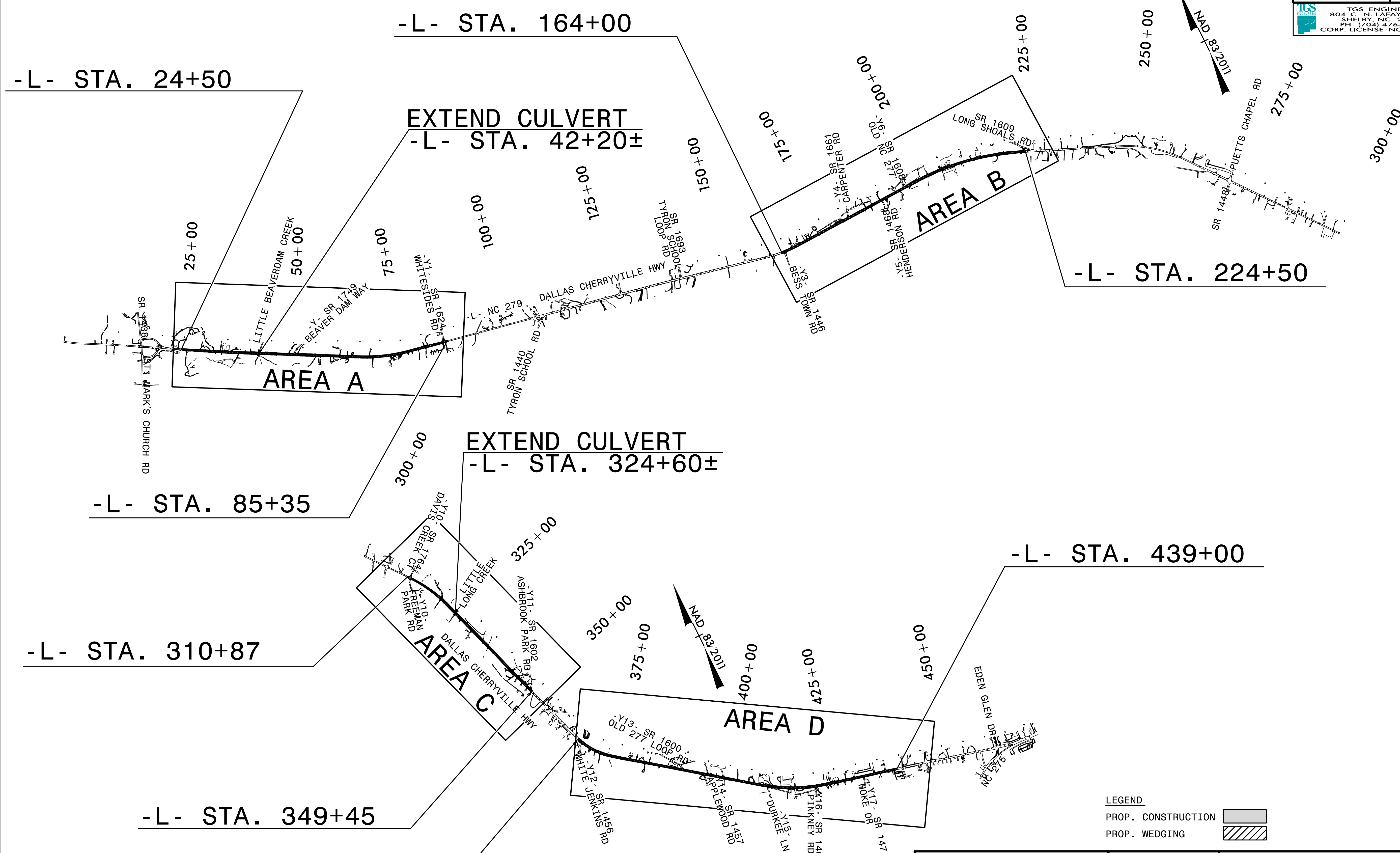
STEP 2:  
USING TEMPORARY LANE CLOSURES AND FLAGGERS PLACE FINAL PAVEMENT MARKINGS AS FOLLOWS:  
NC 279 FROM -L- STA. 24+50 TO -L- STA. 439+00  
AT -Y-LINES AND SIDE STREET REPLACE EXISTING MARKINGS AS NECESASARY.  
(SEE PAVEMENT MARKING PLANS)

REMOVE ALL TRAFFIC CONTROL DEVICES AND OPEN ALL LANES OF NC 279 TO TRAFFIC IN FINAL PATTERN.

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<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		

PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-3
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH. (704) 476-0003 CORP. LICENSE NO.: C-0275	



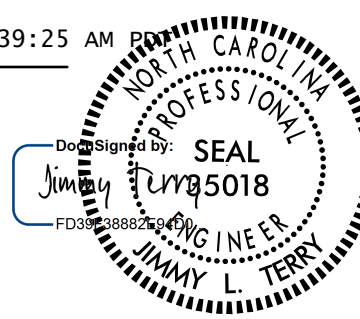
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 User: smelvin

**LEGEND**

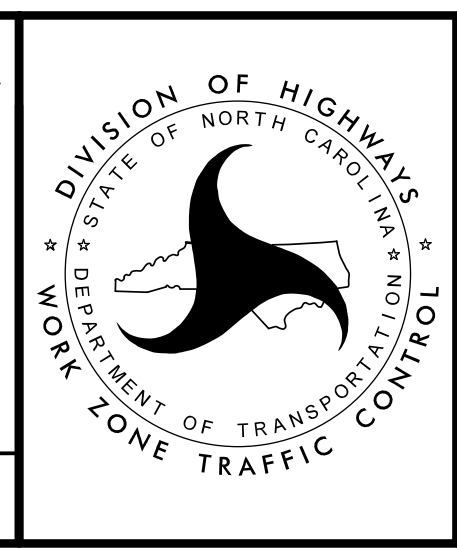
PROP. CONSTRUCTION	
PROP. WEDGING	

APPROVED: \_\_\_\_\_

DATE: 9/13/2018 5:39:25 AM

SEAL 


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

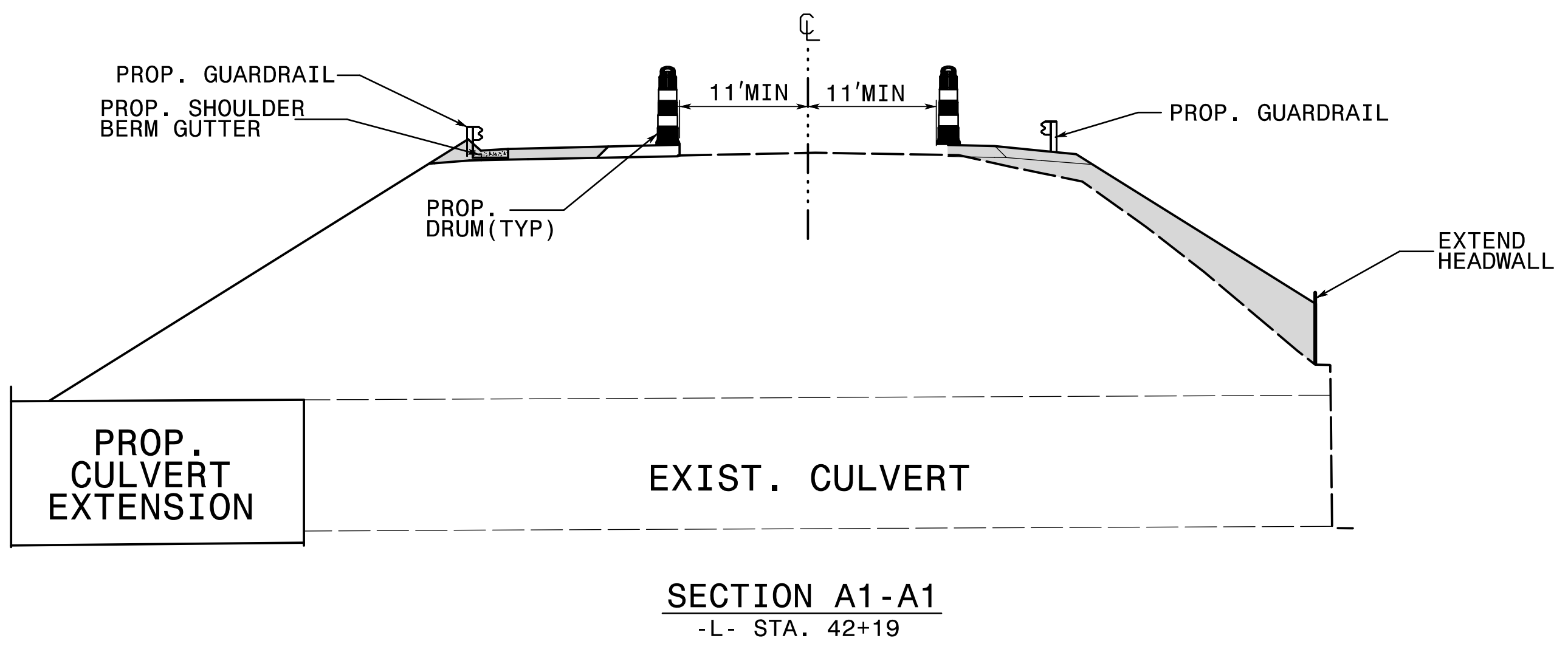
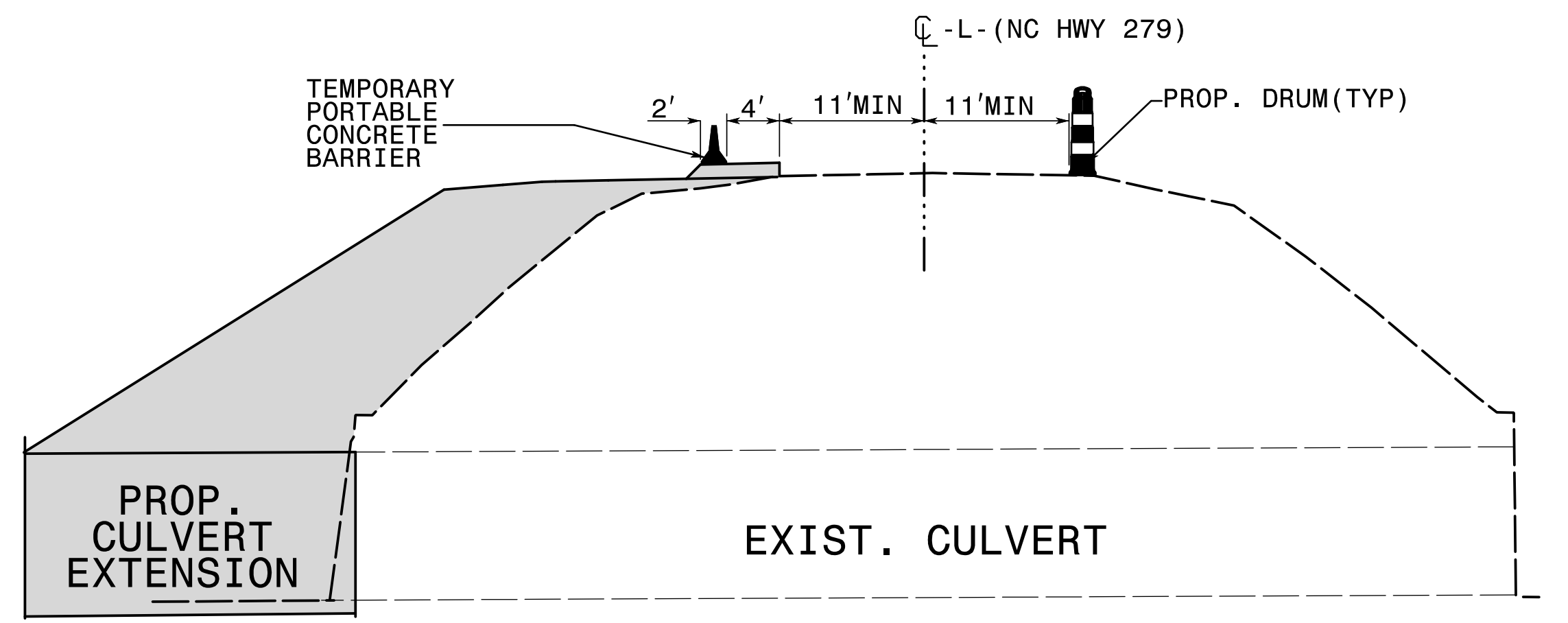
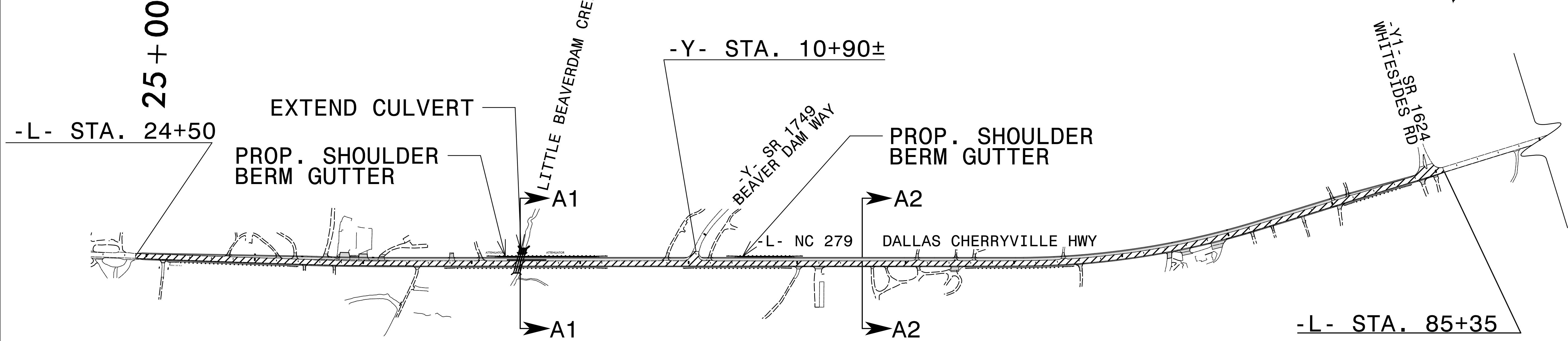
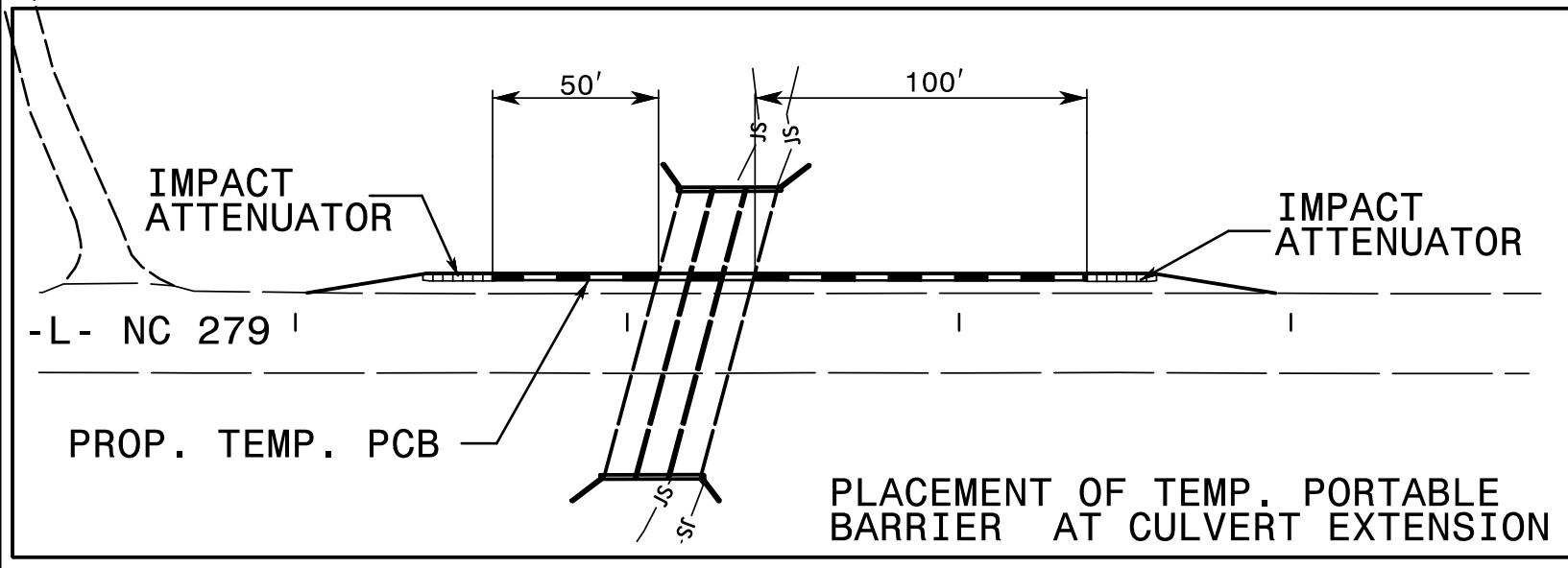
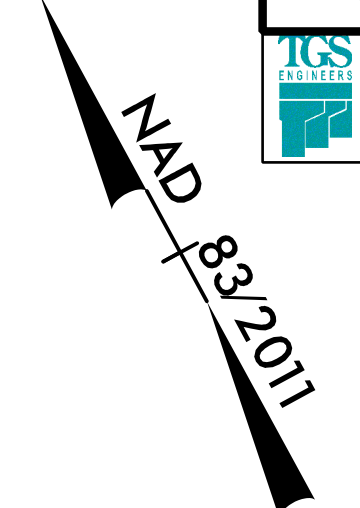


PHASE I  
OVERVIEW

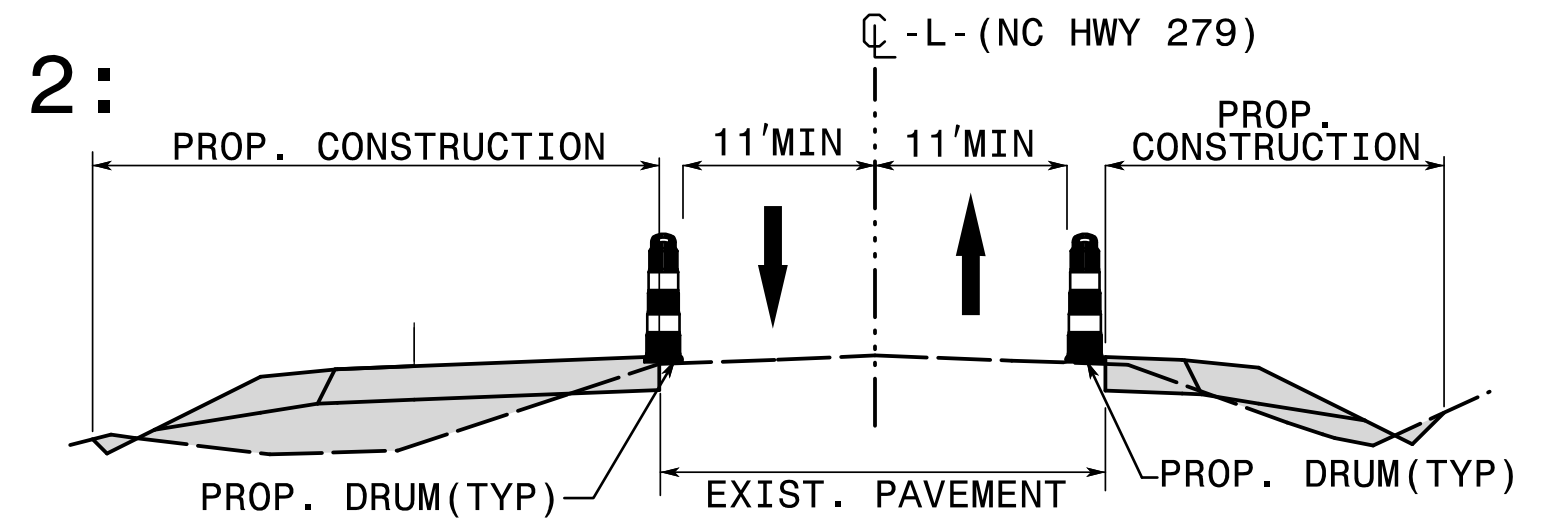


# PHASE I - AREA A:

PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-4
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	

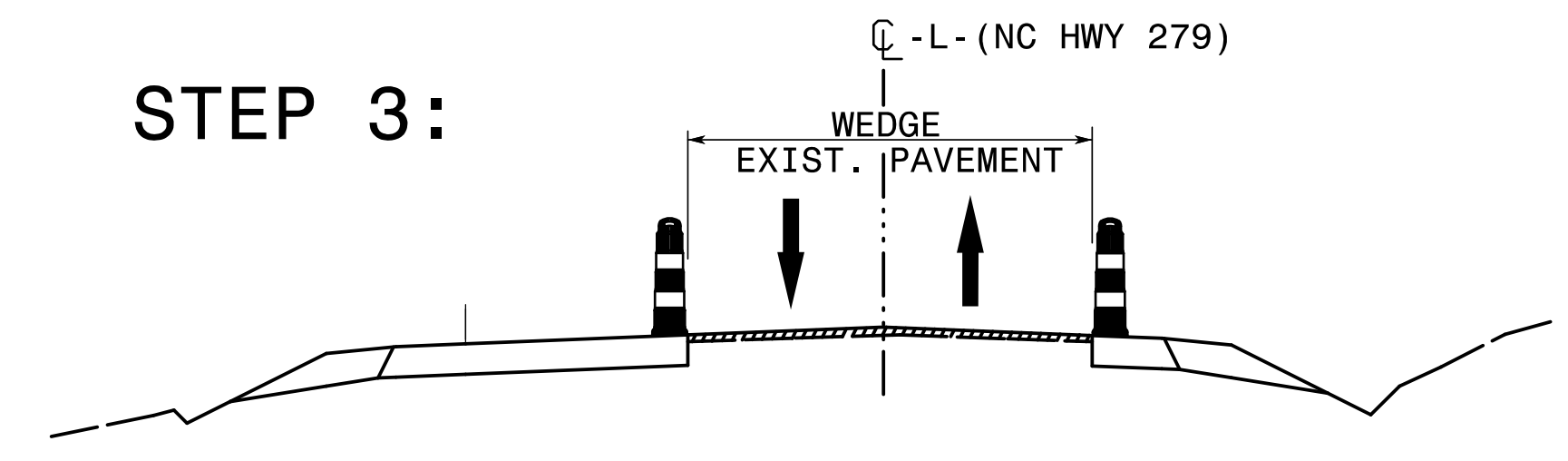


## STEP 2:



SECTION A2-A2  
-L- STA. 58+00

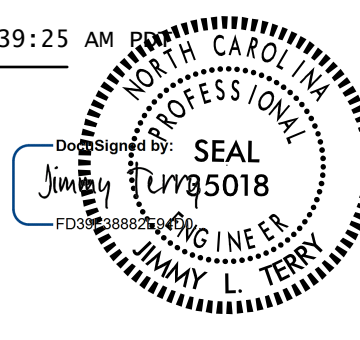
## STEP 3:



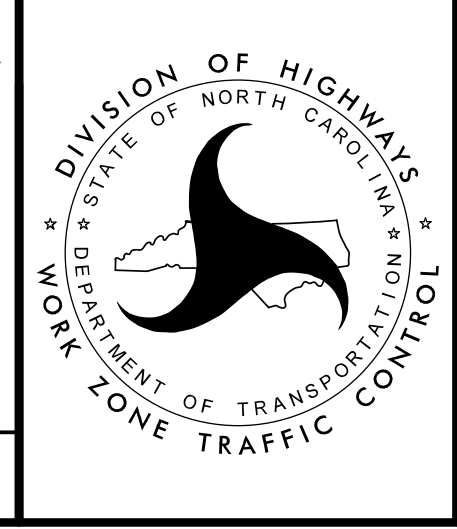
SECTION A2-A2  
-L- STA. 58+00

- LEGEND**
- PROP. CONSTRUCTION 
  - PROP. WEDGING 

APPROVED: \_\_\_\_\_  
DATE: 9/13/2018 5:39:25 AM

SEAL 

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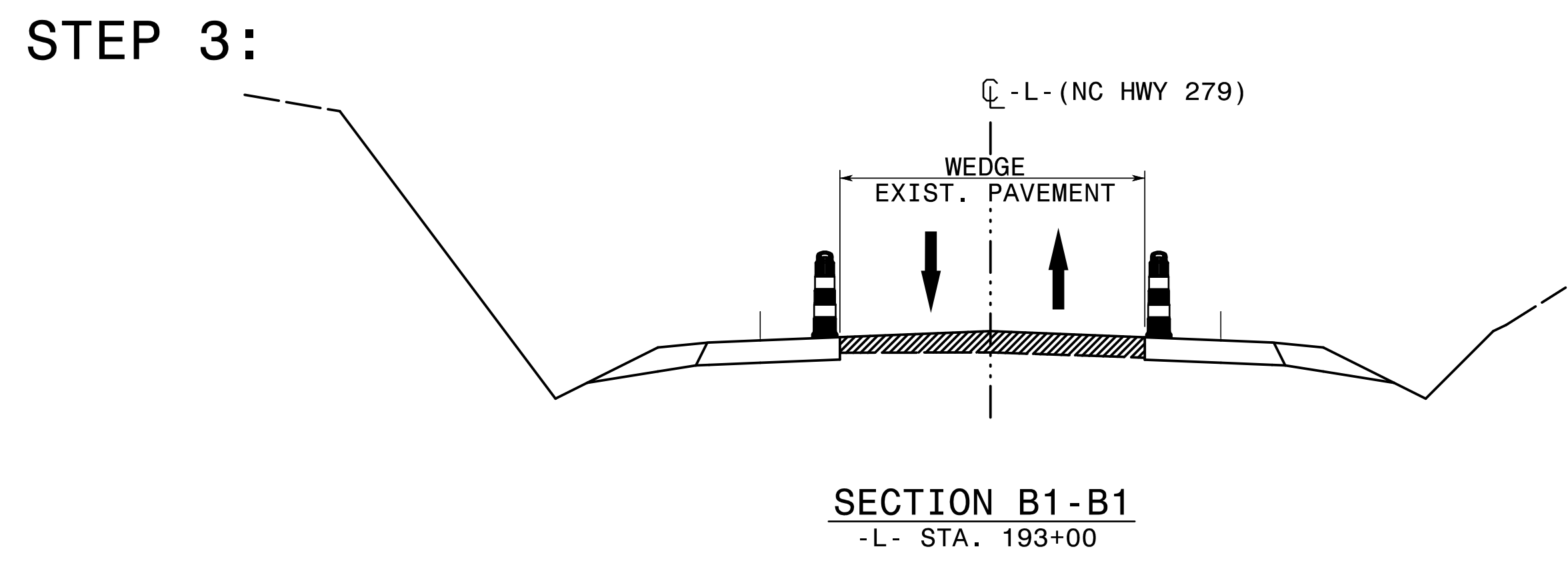
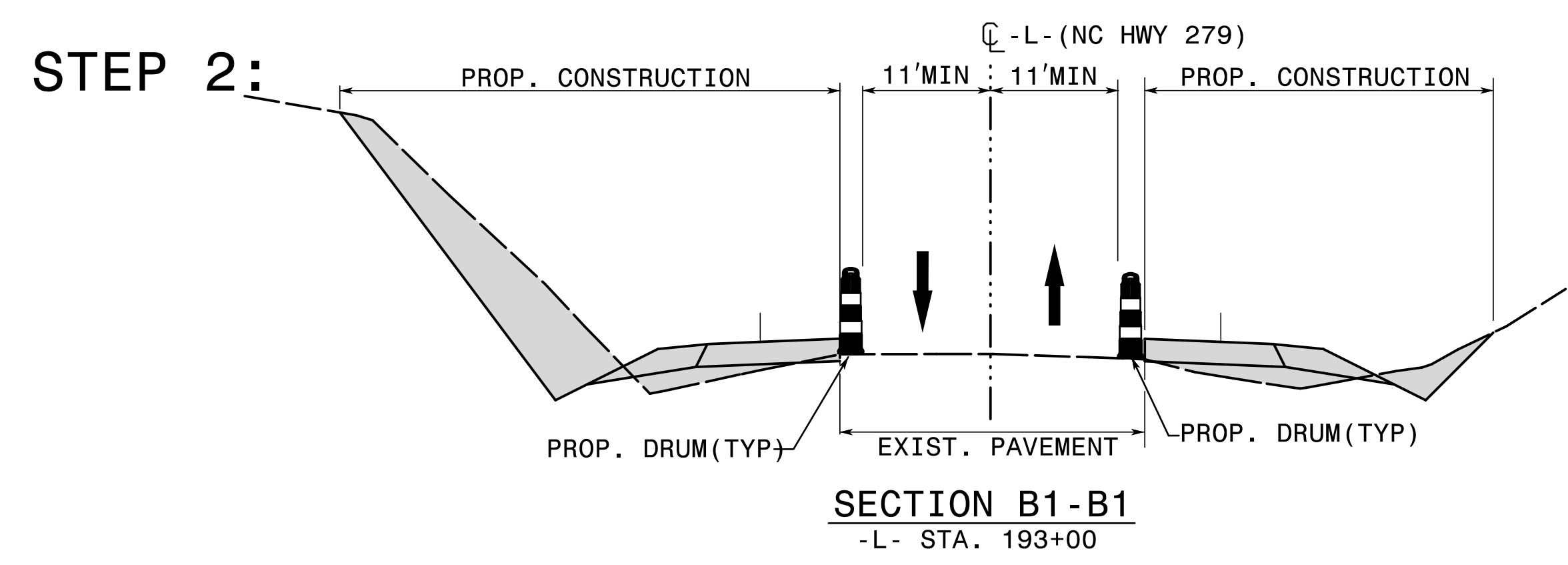
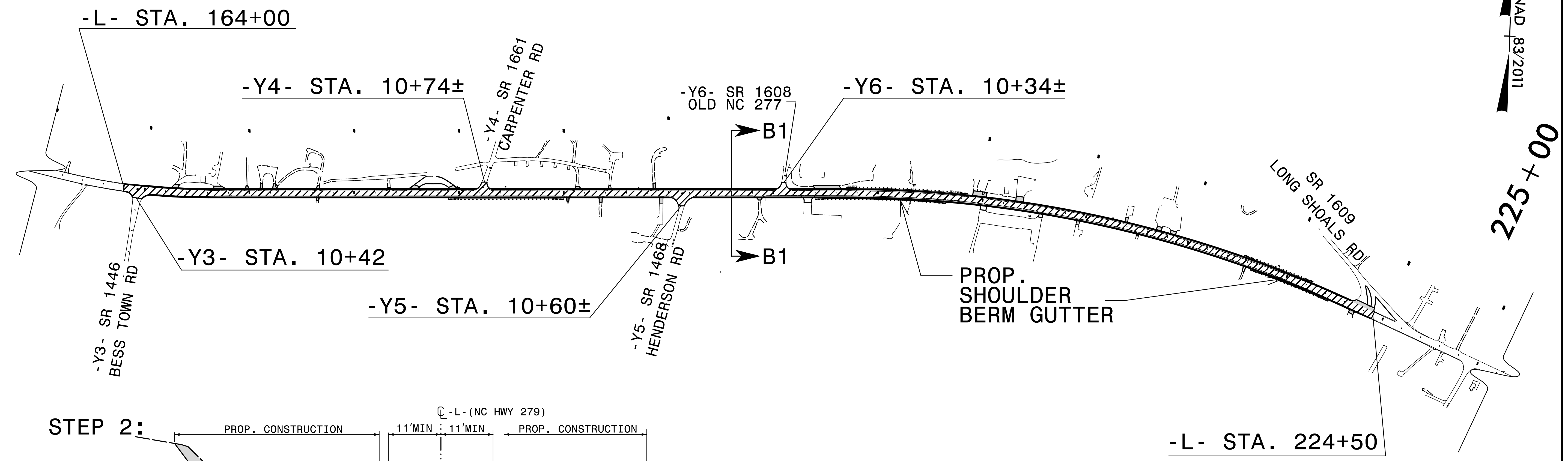
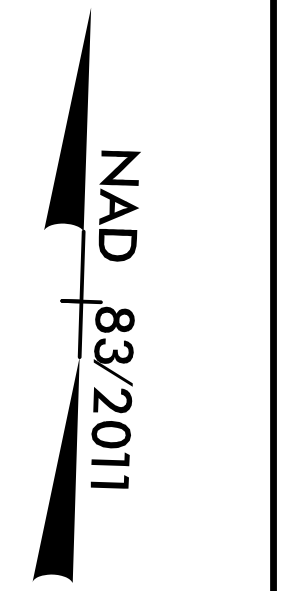
**PHASE I  
AREA A**


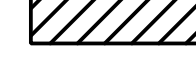
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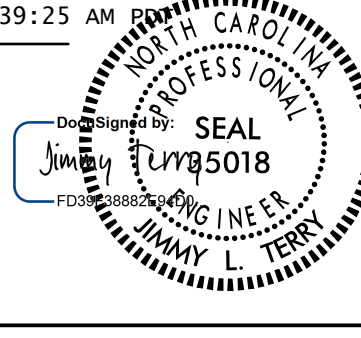
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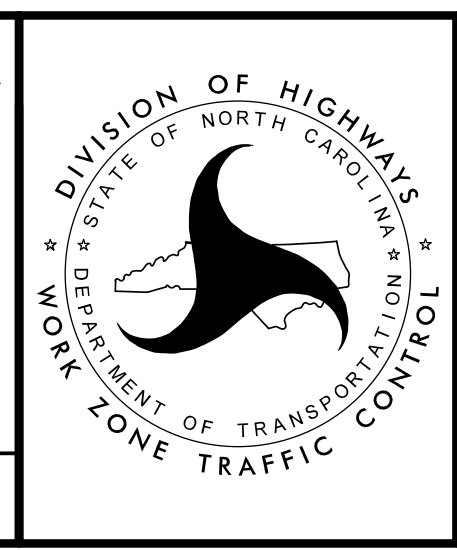
200+00

PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-5
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	



**LEGEND**  
 PROP. CONSTRUCTION   
 PROP. WEDGING 

APPROVED: \_\_\_\_\_  
 DATE: 9/13/2018 5:39:25 AM  
 SEAL   
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**




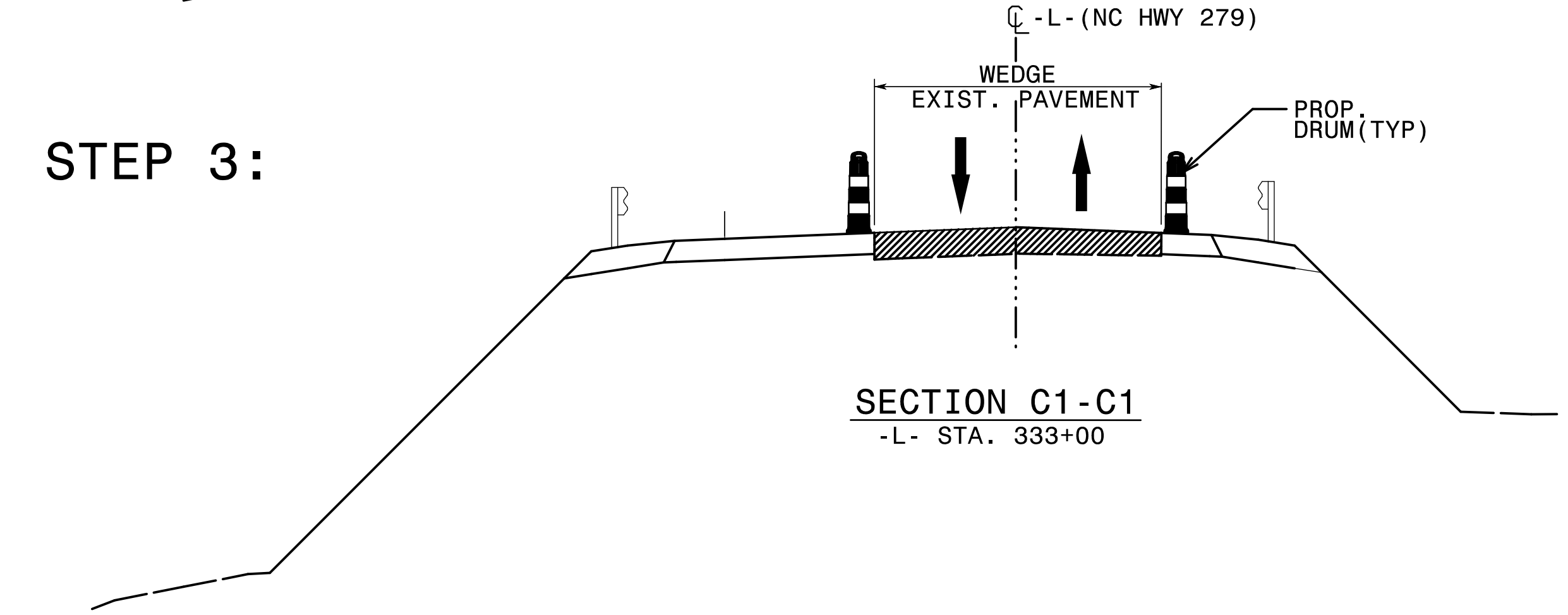
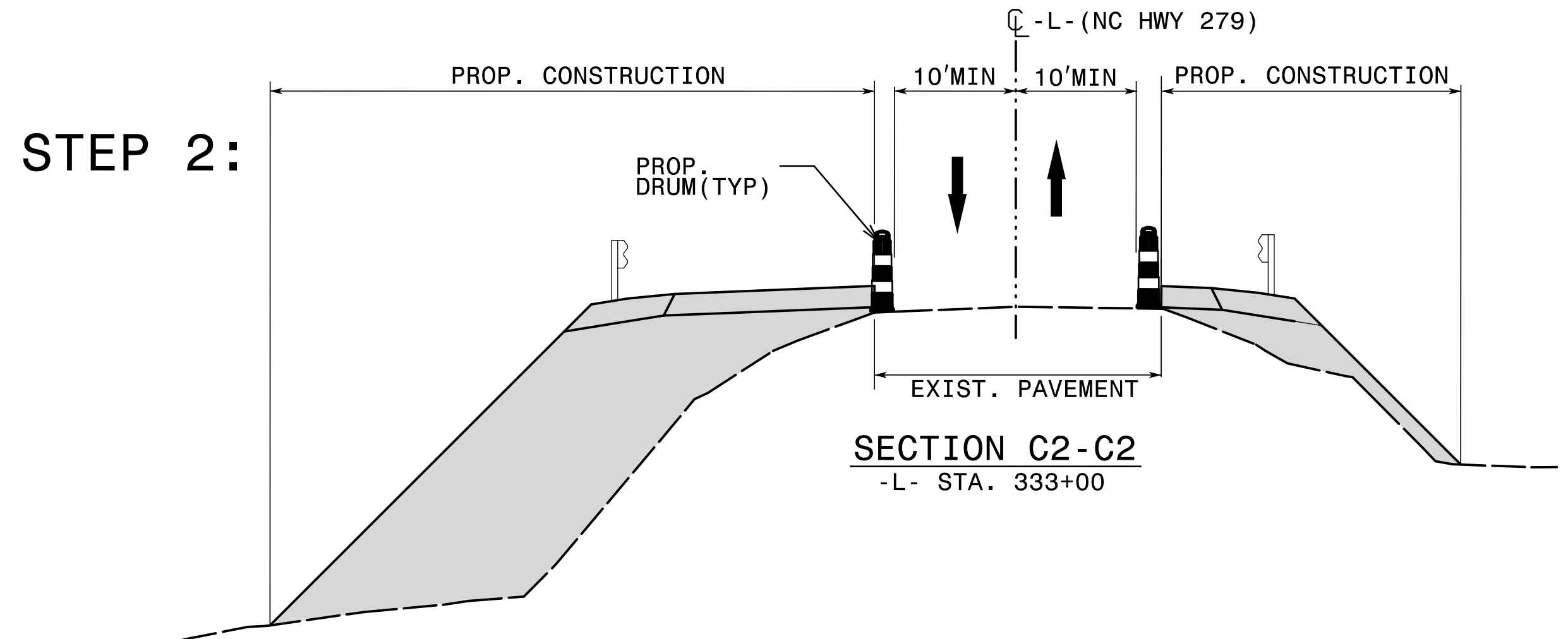
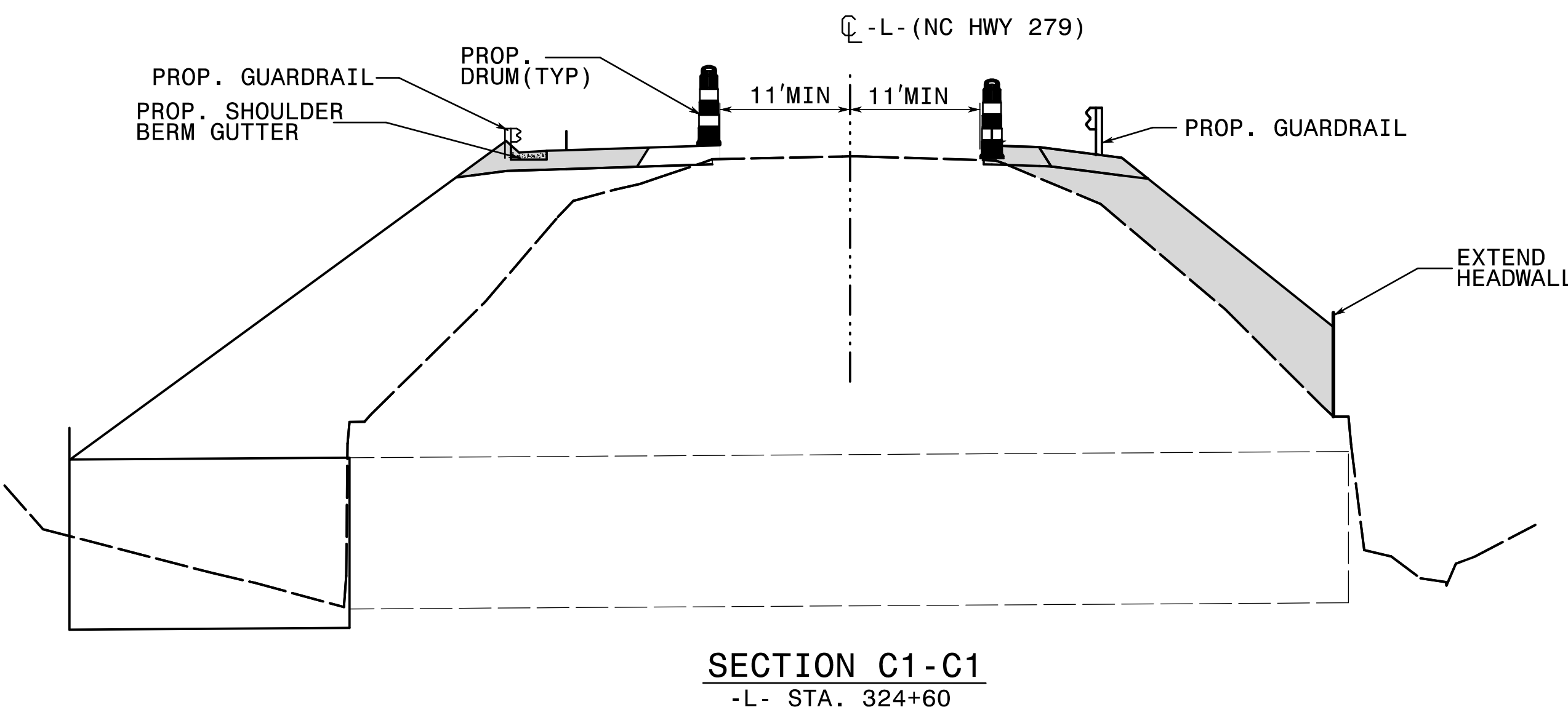
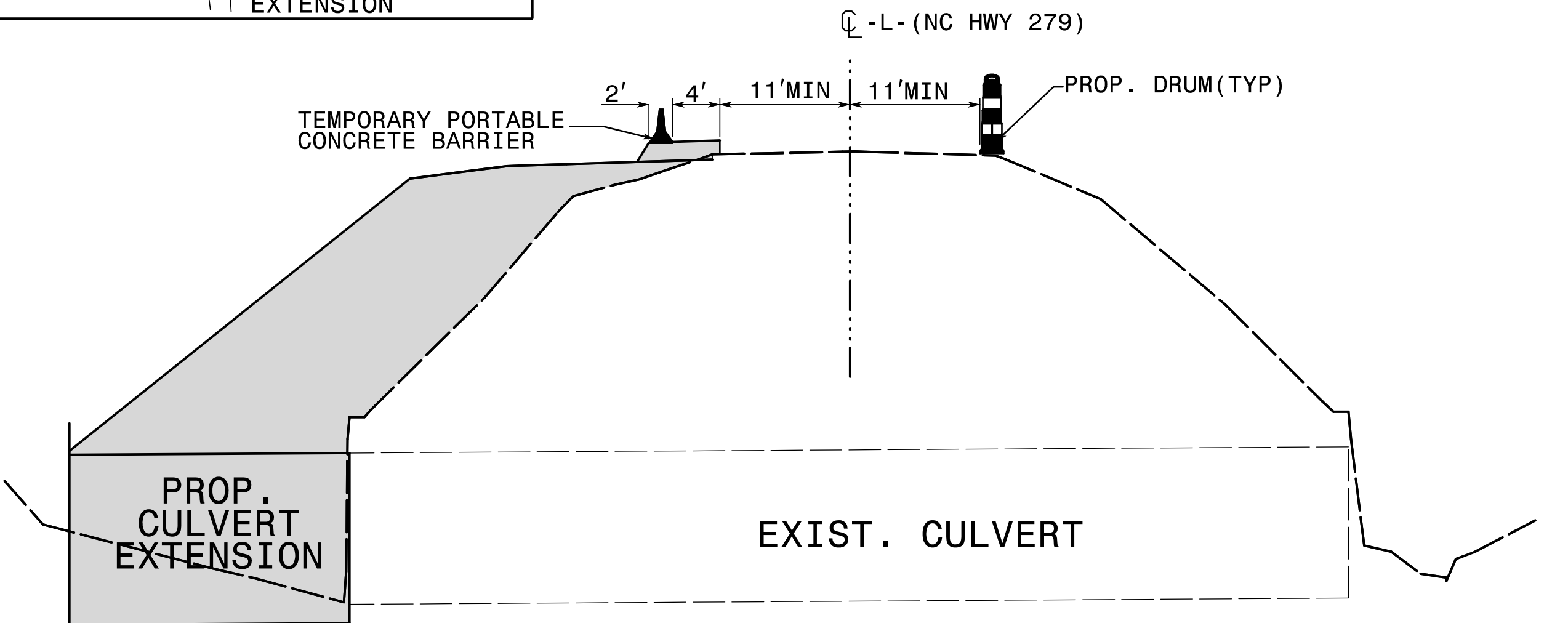
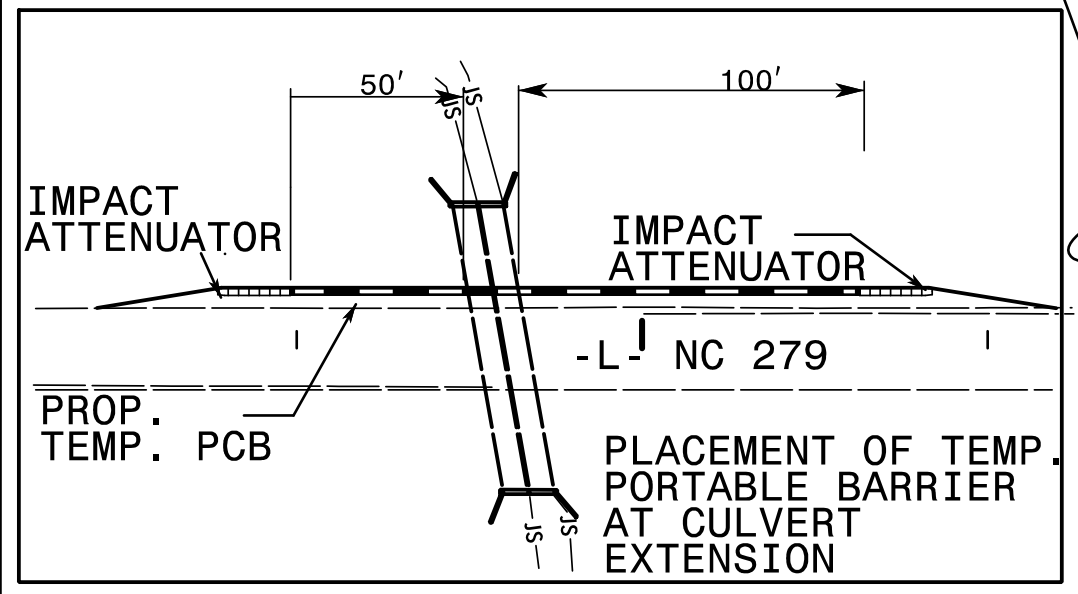
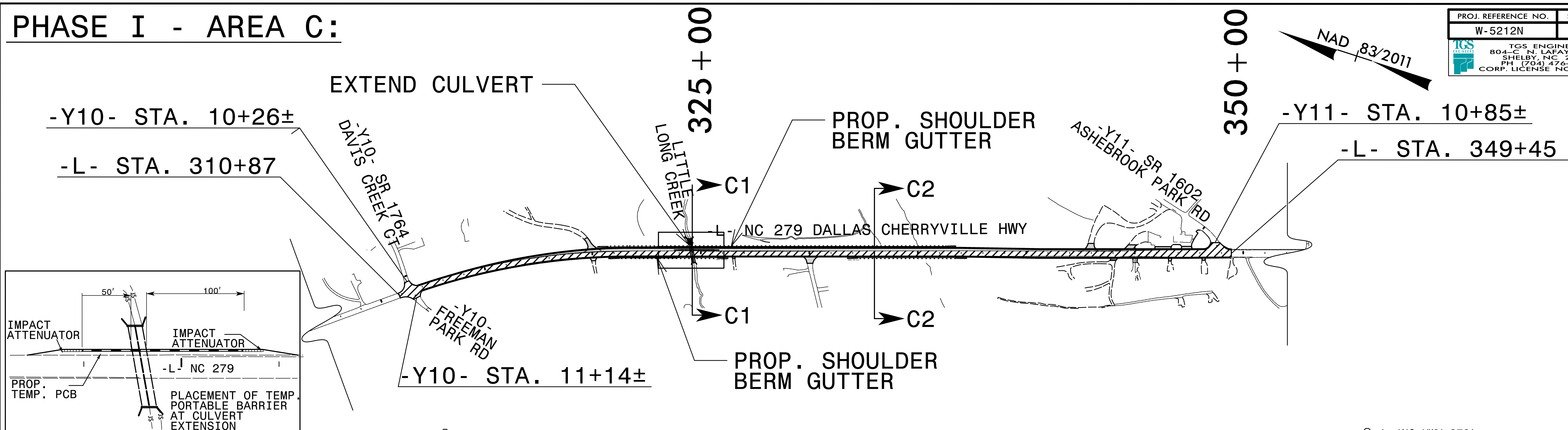
## PHASE I AREA B



9/11/2018  
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 User: smelvin

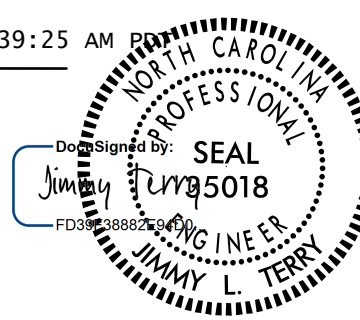


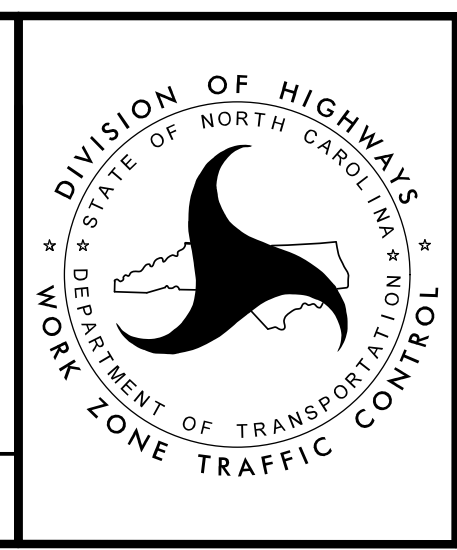
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PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-6
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO. C-0275	



**LEGEND**  
 PROP. CONSTRUCTION   
 PROP. WEDGING 


APPROVED: \_\_\_\_\_  
 DATE: 9/13/2018 5:39:25 AM  
  
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

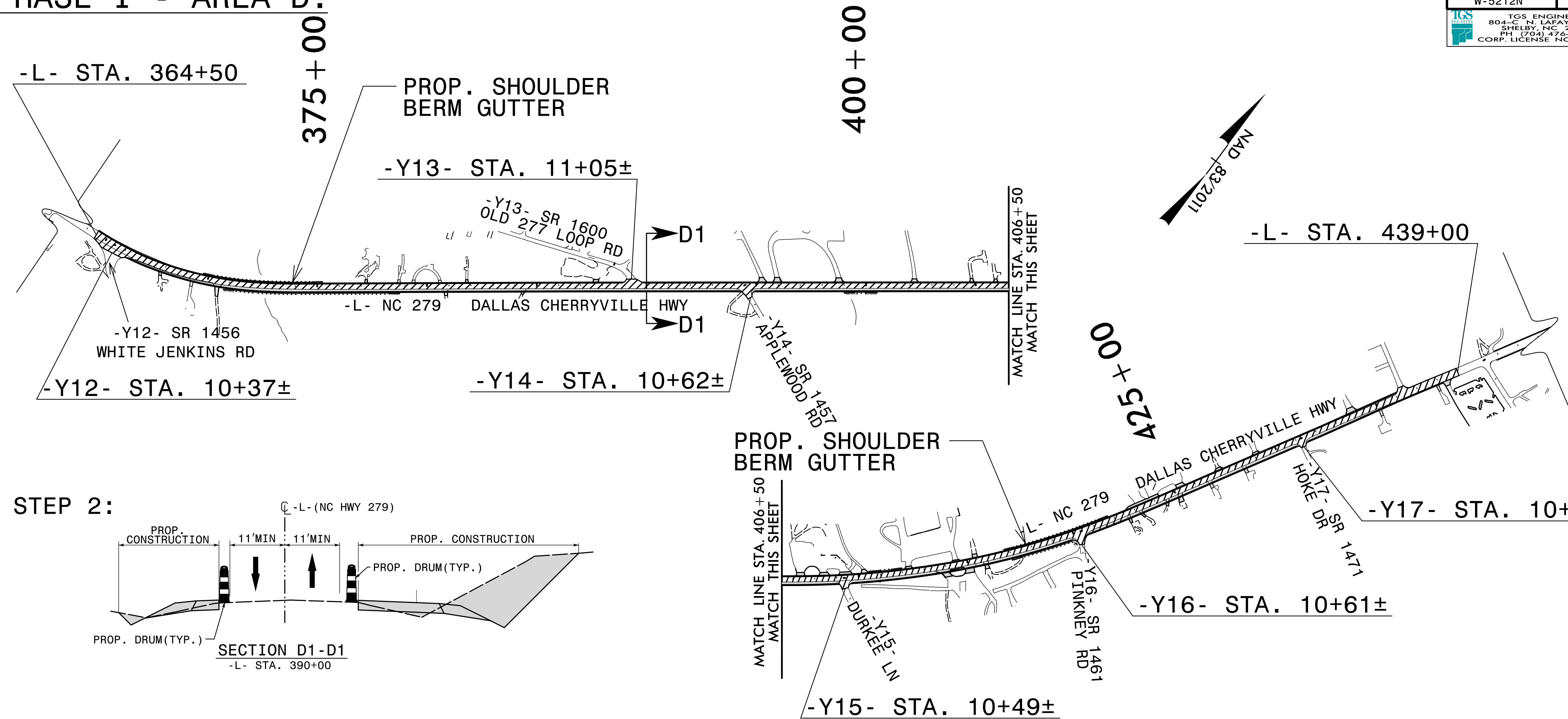


## PHASE I AREA C

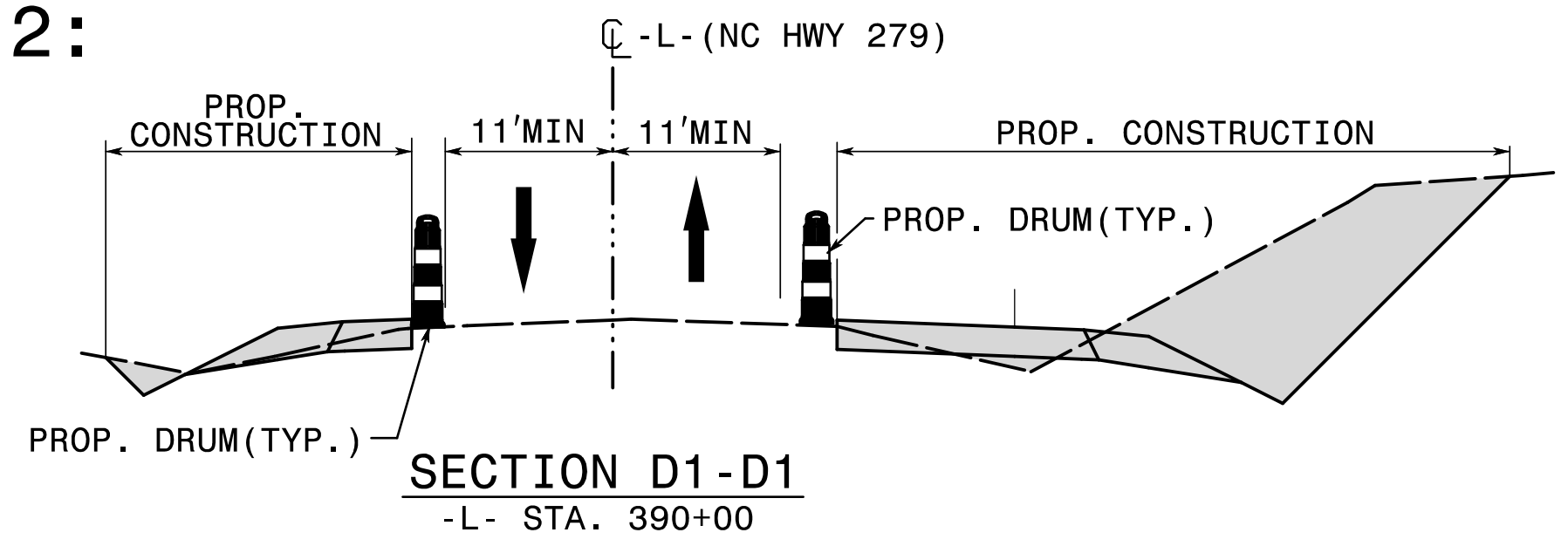
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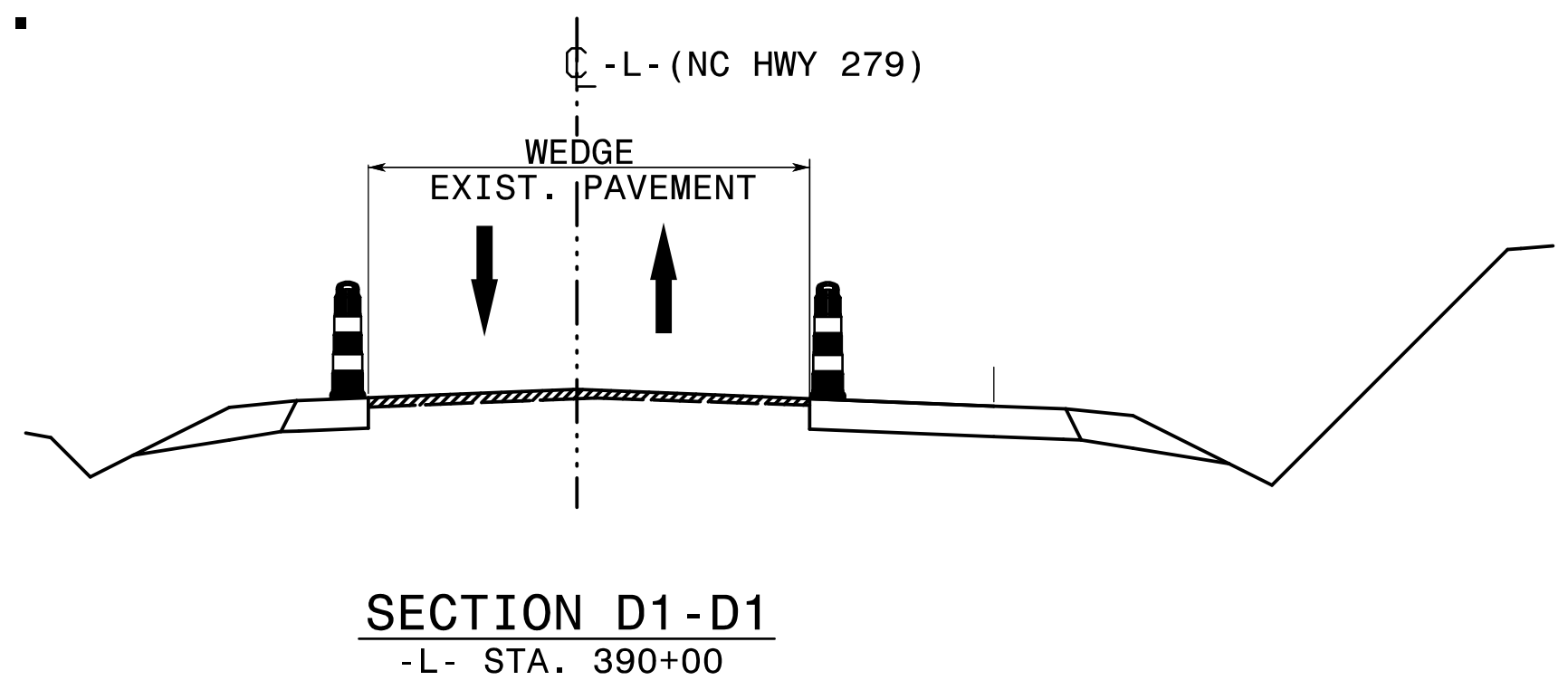
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W-5212N	TMP-7
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	





### STEP 2:



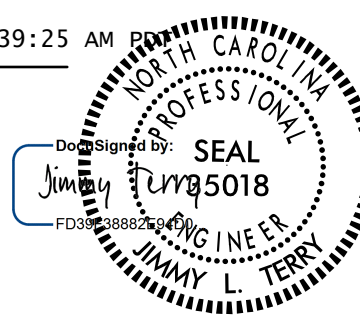
### STEP 3:



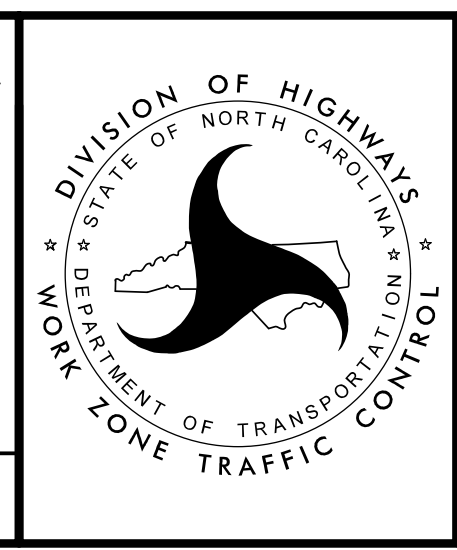
**LEGEND**

PROP. CONSTRUCTION	
PROP. WEDGING	

APPROVED: \_\_\_\_\_  
 DATE: 9/13/2018 5:39:25 AM

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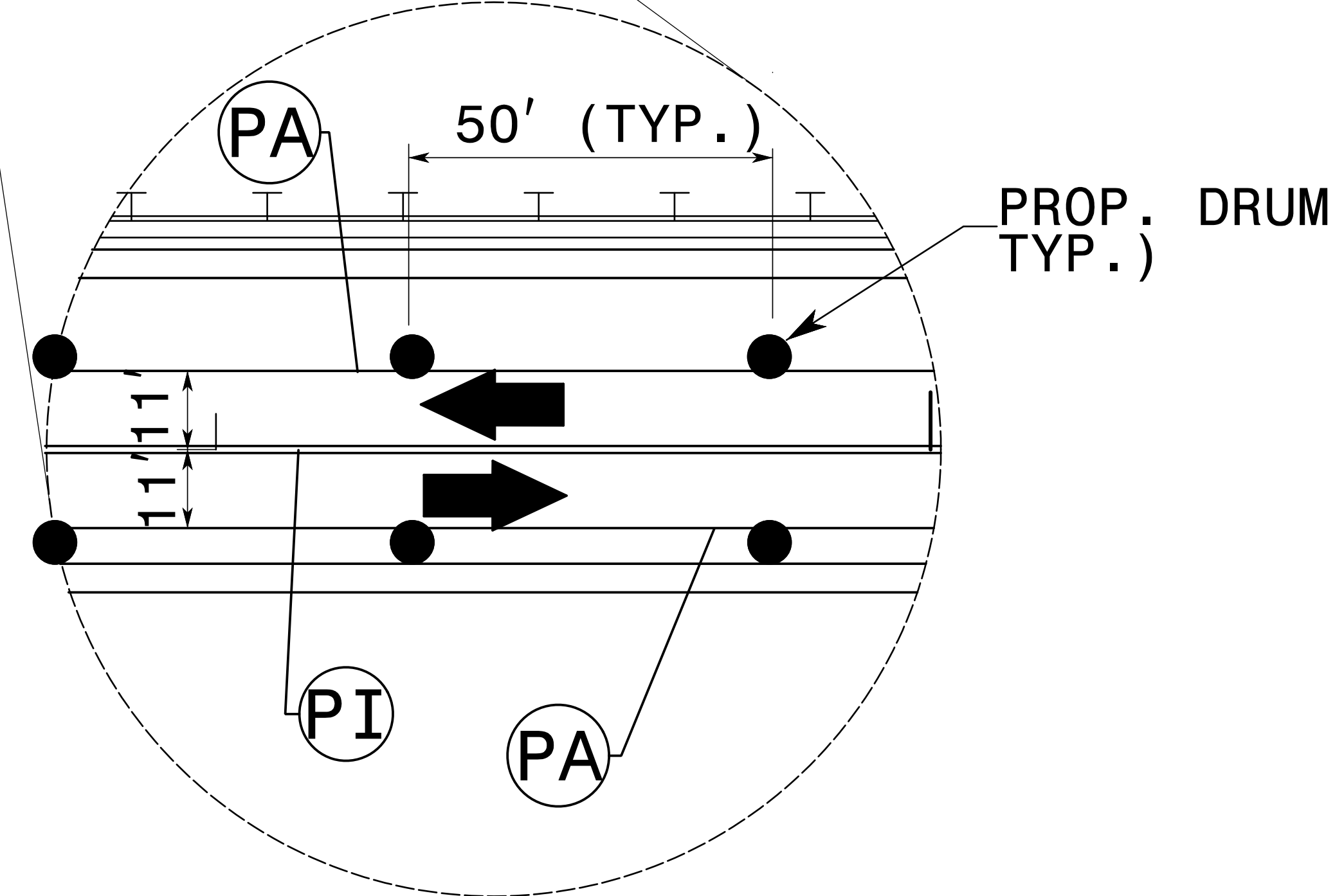
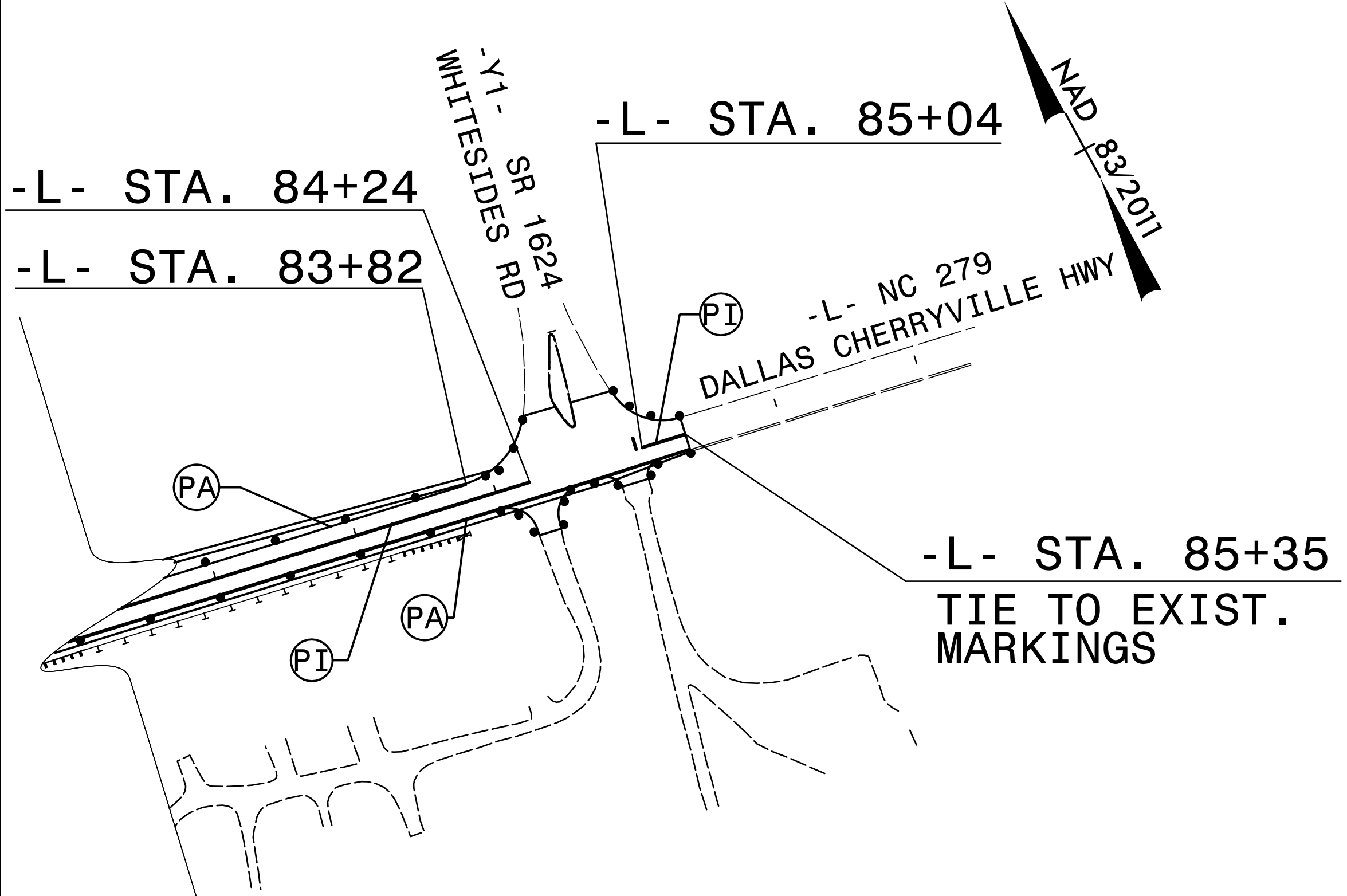
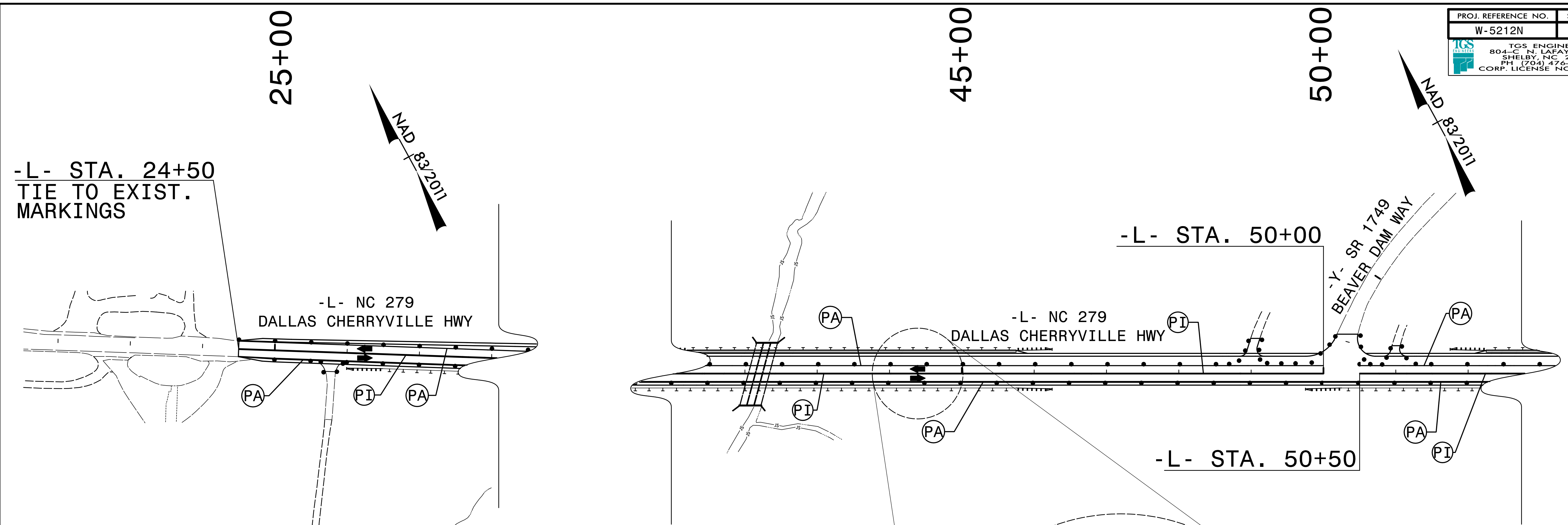
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



## PHASE I AREA D

9/11/2018  
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 User: smelvin





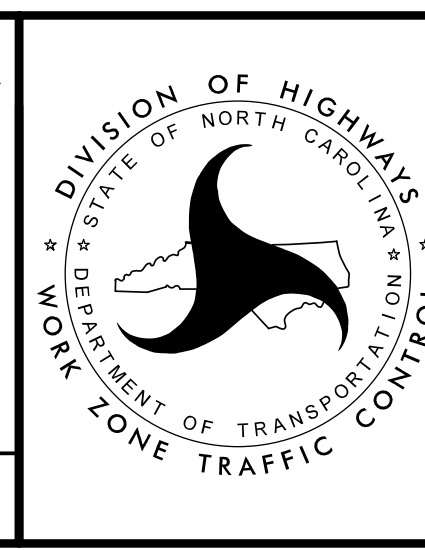
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SEE TMP-1A FOR TEMPORARY PAVEMENT SCHEDULE

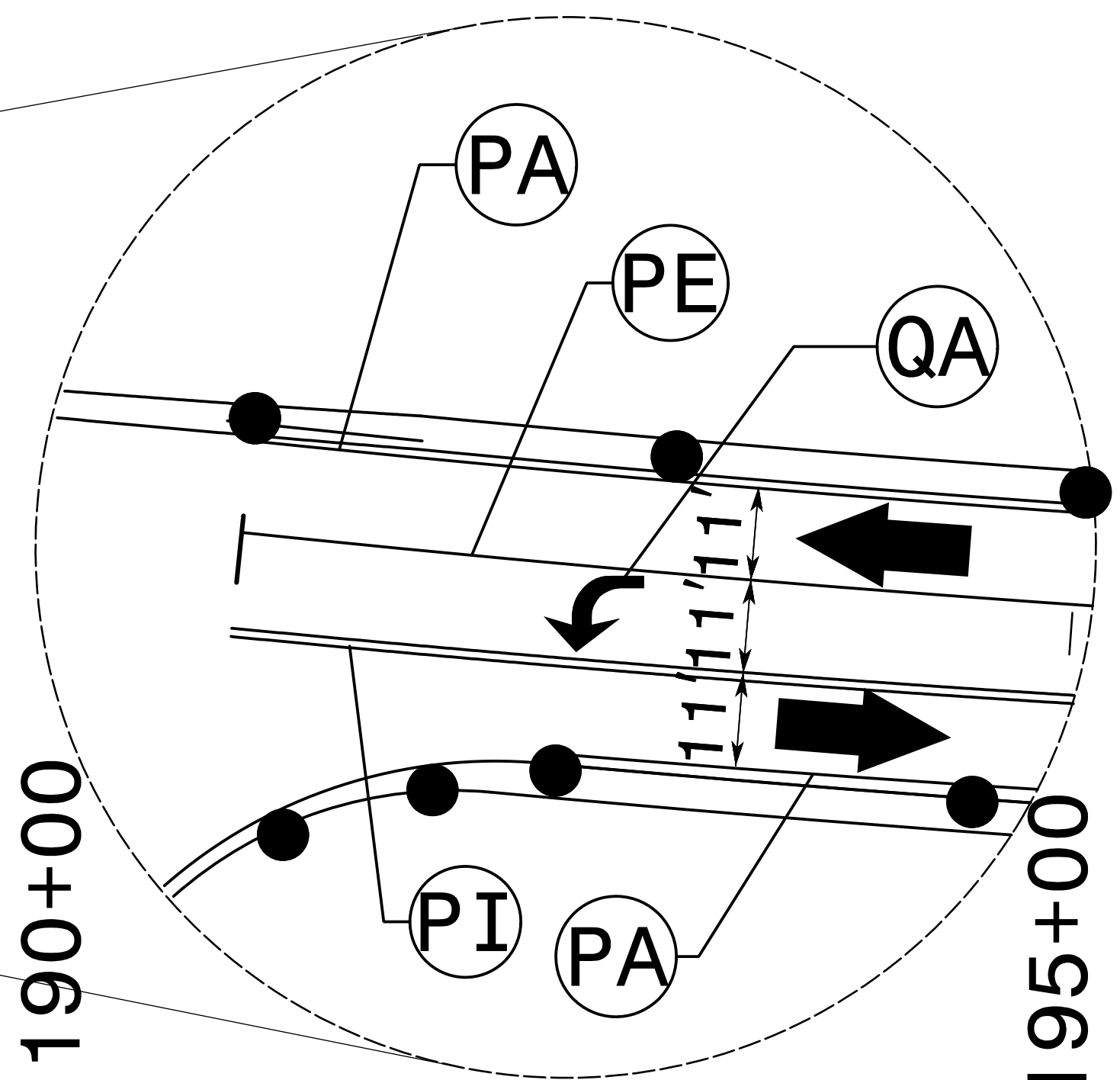
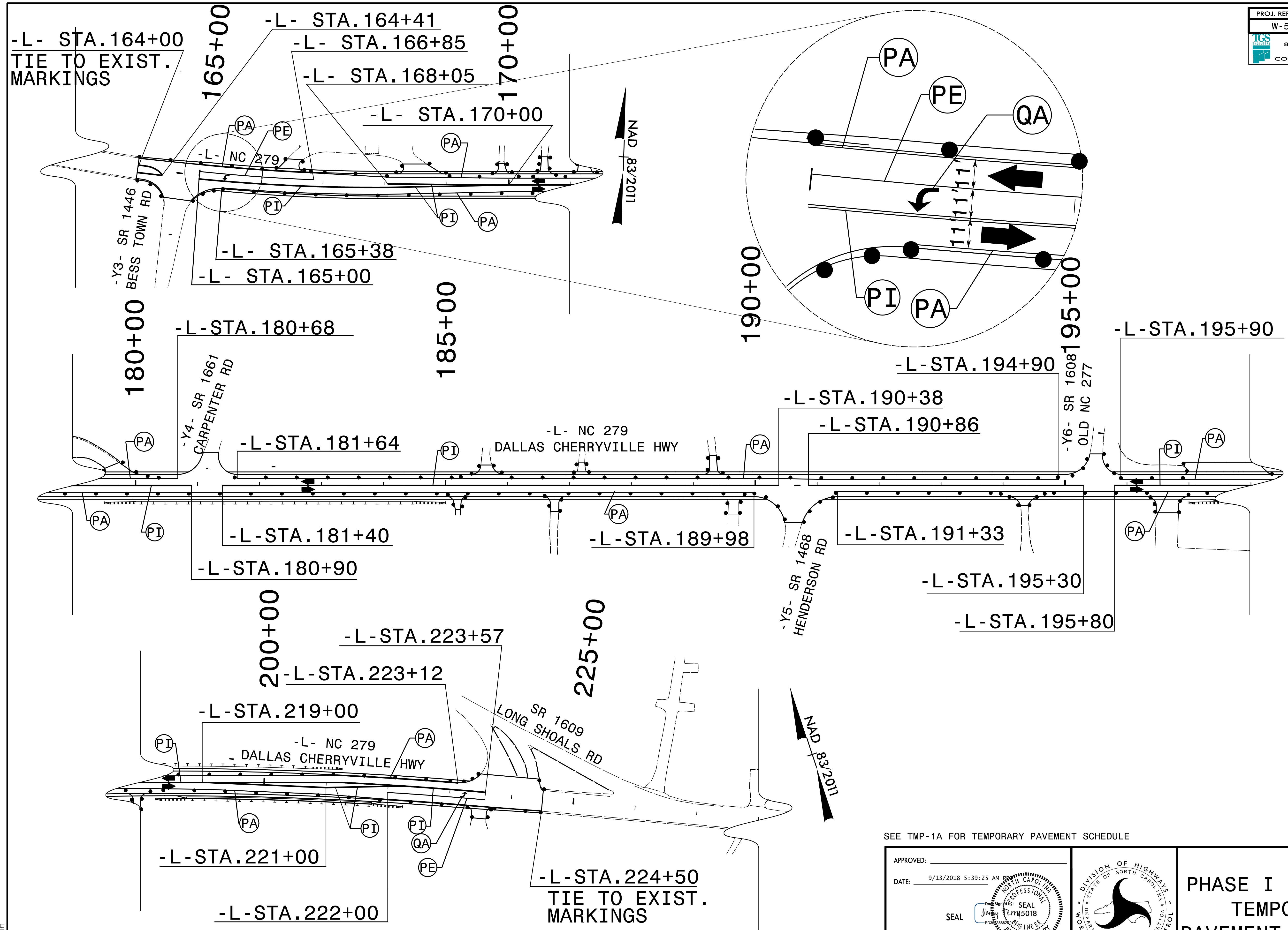
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DATE: 9/13/2018 5:39:25 AM

SEAL [Signature]

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



PHASE I - AREA A  
TEMPORARY  
PAVEMENT MARKINGS

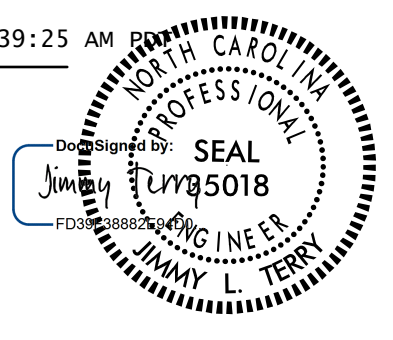


9/14/2018  
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 User: smelvin

SEE TMP-1A FOR TEMPORARY PAVEMENT SCHEDULE

APPROVED: \_\_\_\_\_

DATE: 9/13/2018 5:39:25 AM

SEAL 

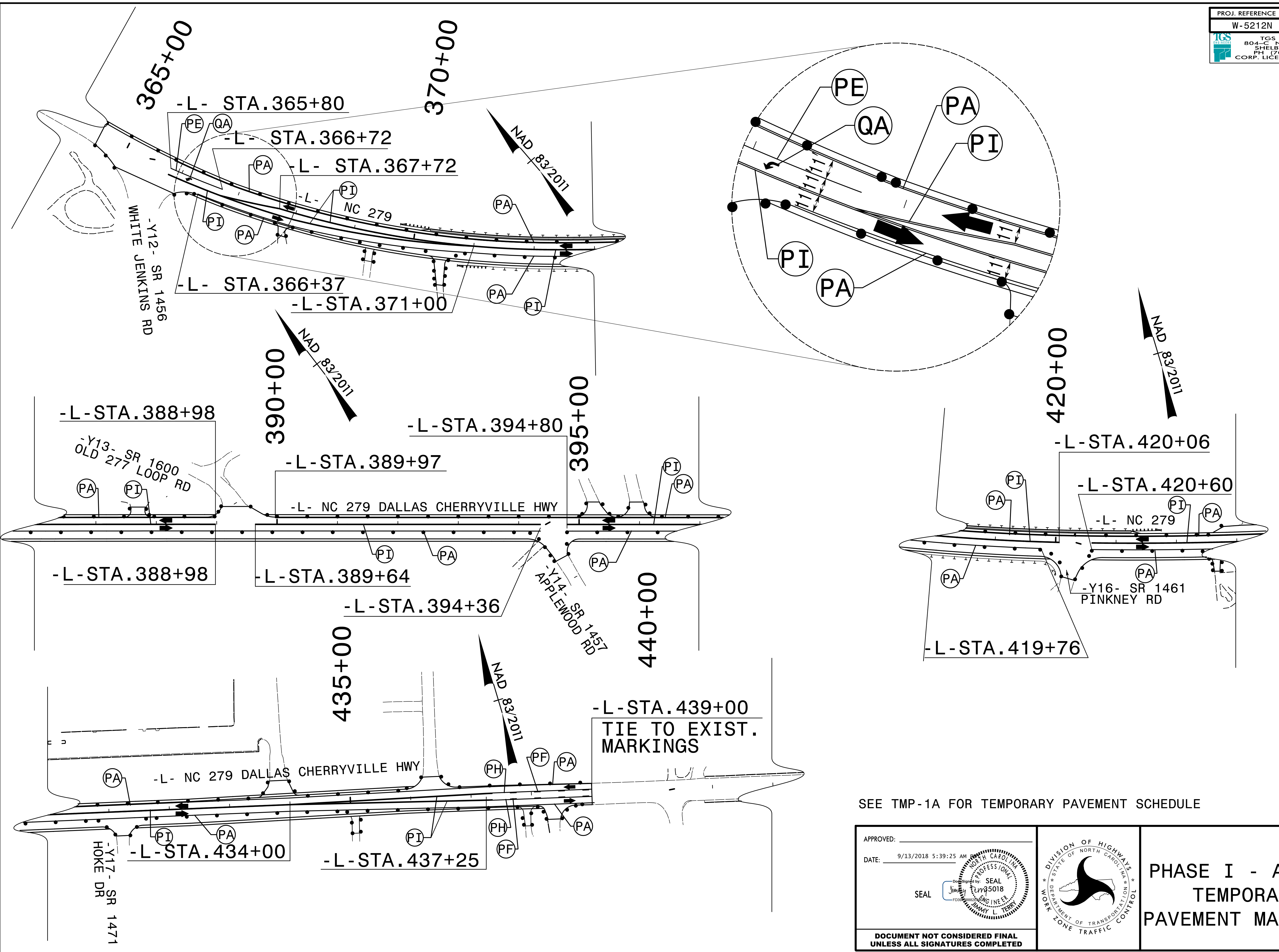
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UNLESS ALL SIGNATURES COMPLETED**



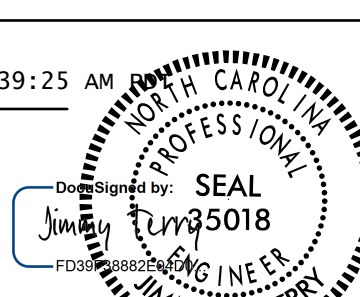
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TEMPORARY  
PAVEMENT MARKINGS**

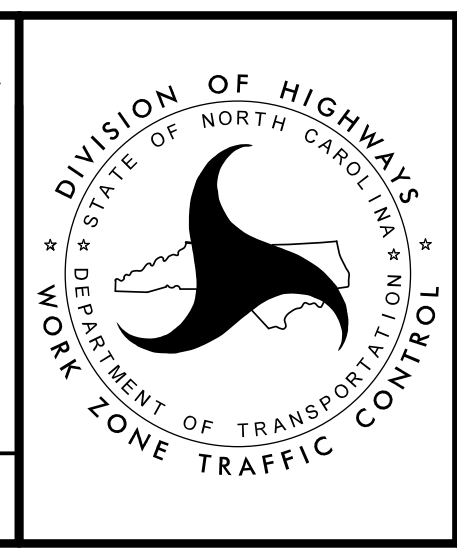






SEE TMP-1A FOR TEMPORARY PAVEMENT SCHEDULE


APPROVED: \_\_\_\_\_  
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 UNLESS ALL SIGNATURES COMPLETED

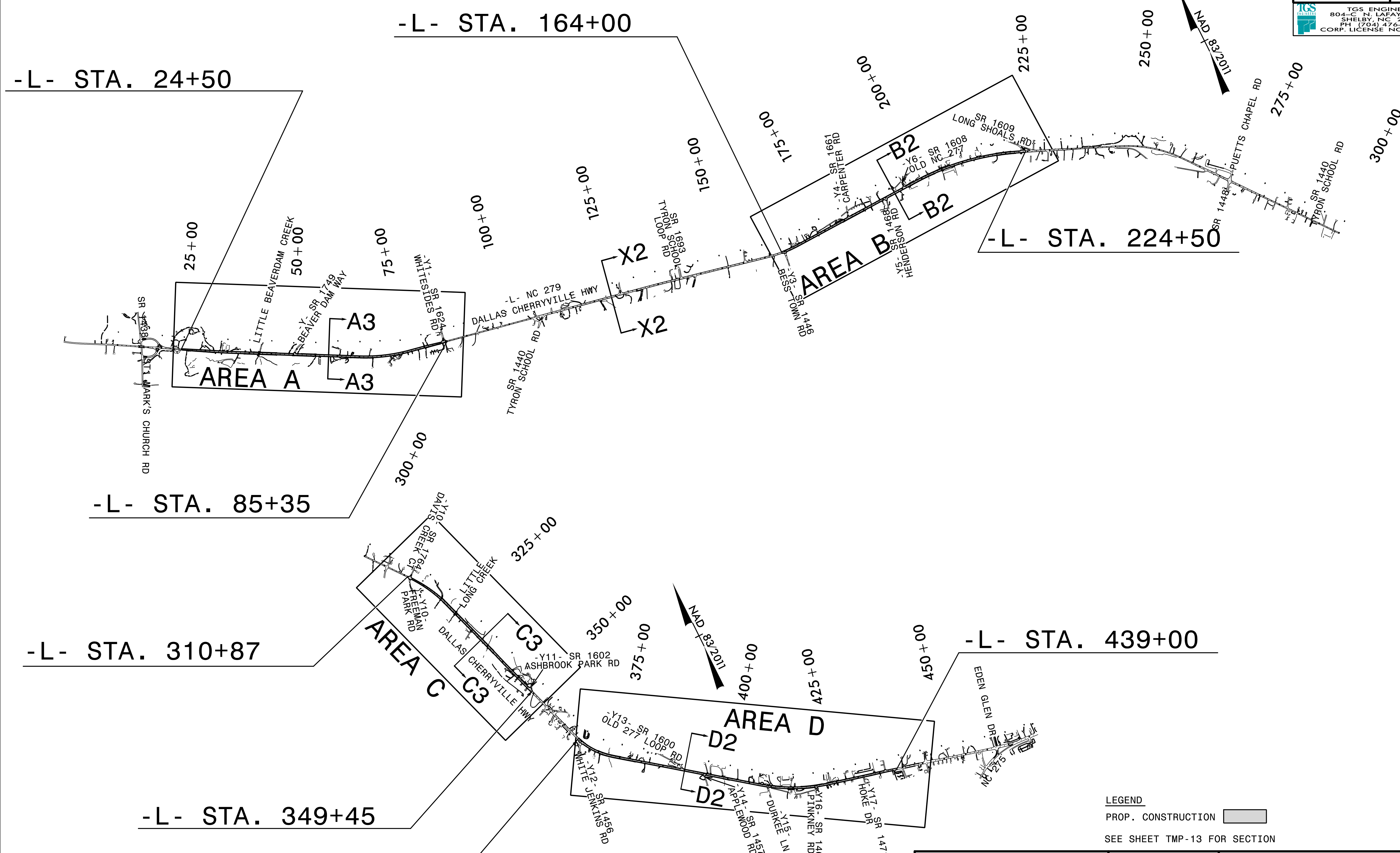


**PHASE I - AREA D**  
**TEMPORARY**  
**PAVEMENT MARKINGS**

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 User: smelvin



PROJ. REFERENCE NO.	SHEET NO.
W-5212N	TMP-12
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275	



-L- STA. 24+50

-L- STA. 164+00

-L- STA. 224+50

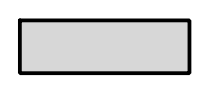
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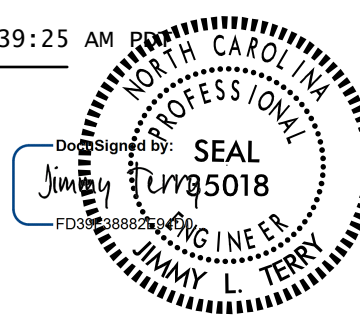
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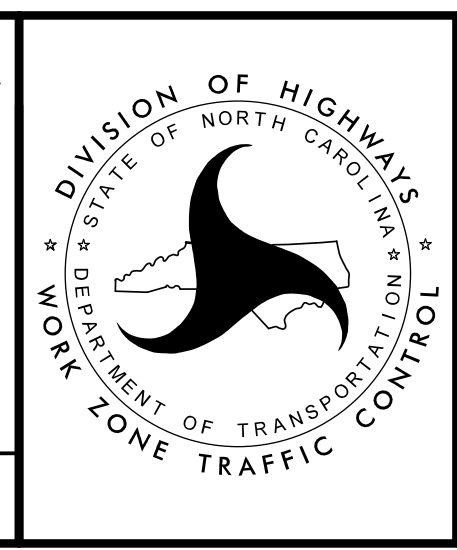
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-L- STA. 349+45

-L- STA. 364+50

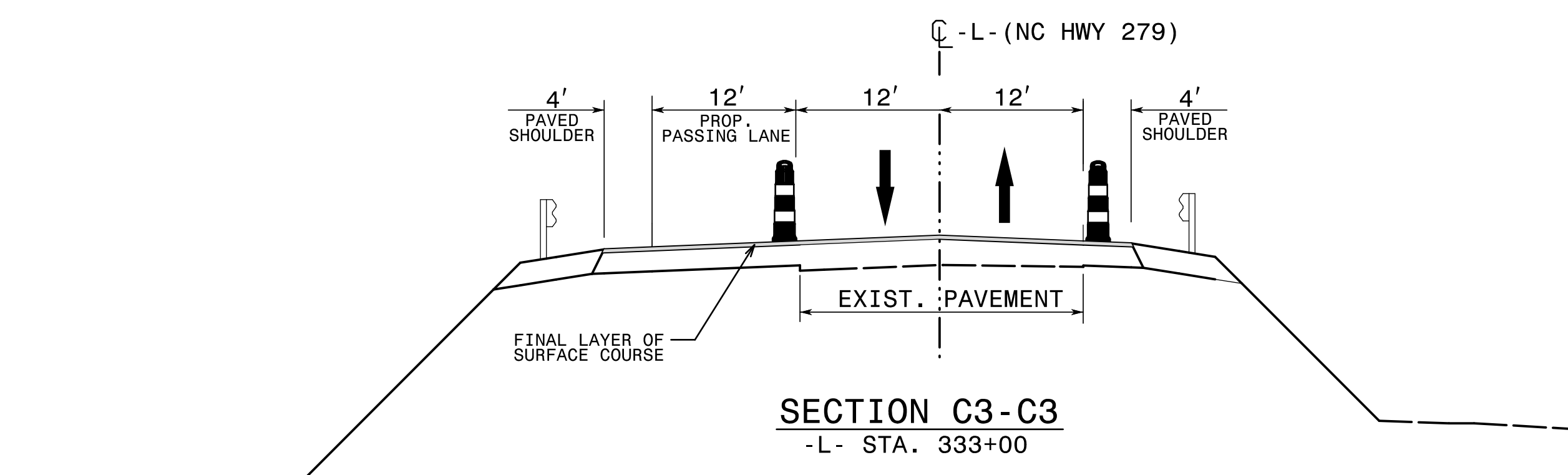
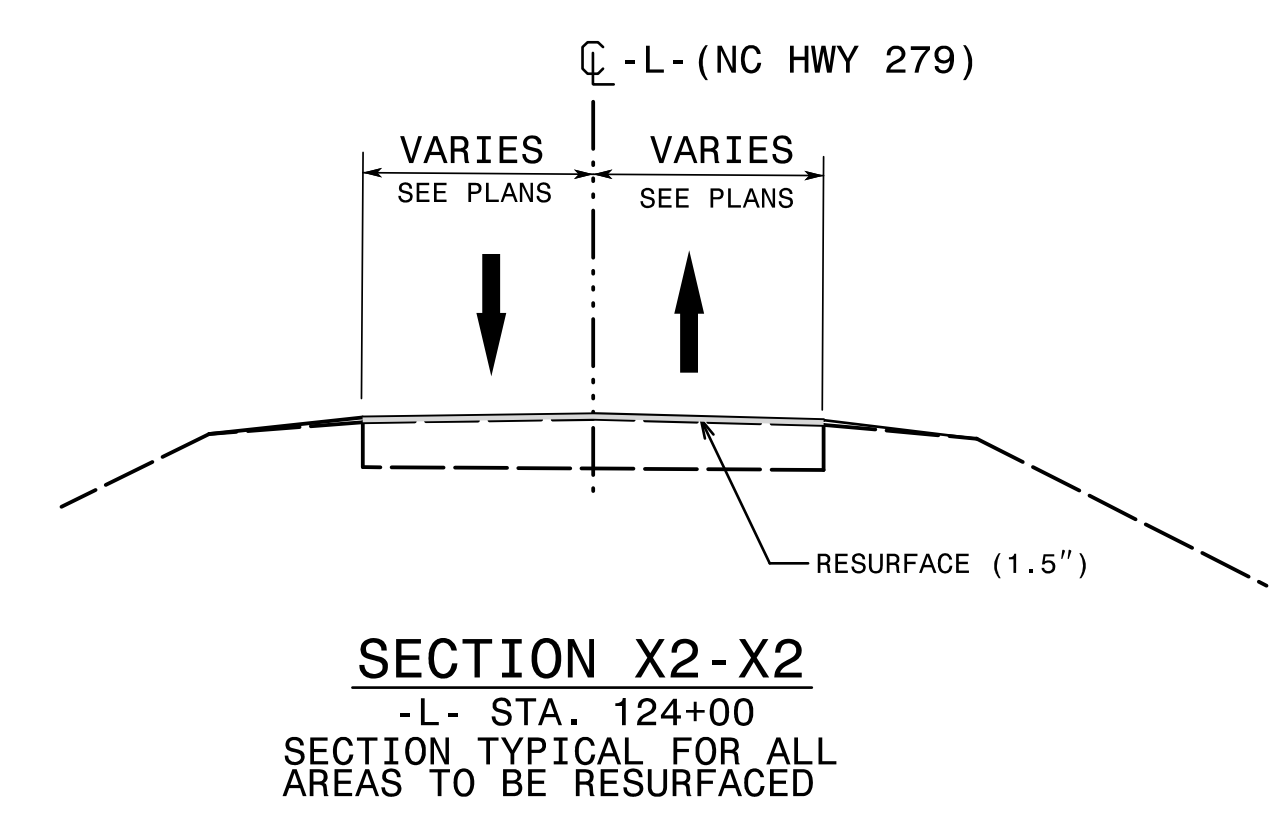
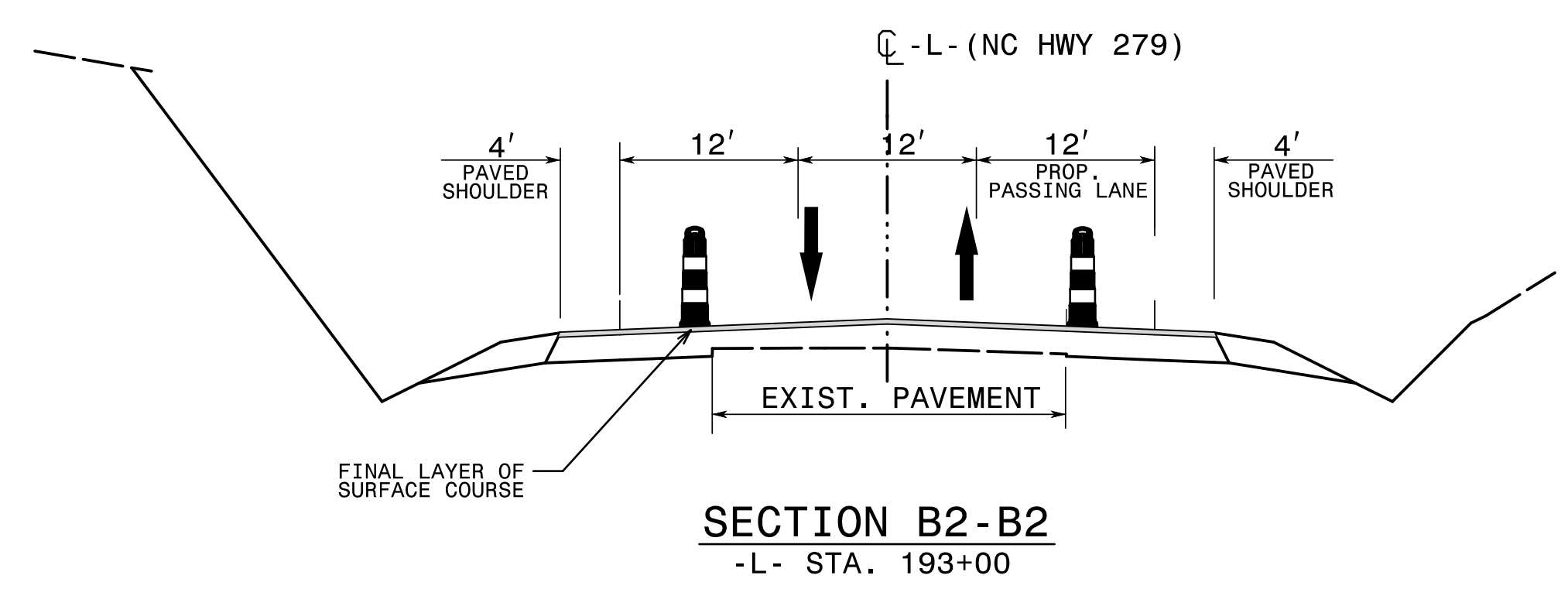
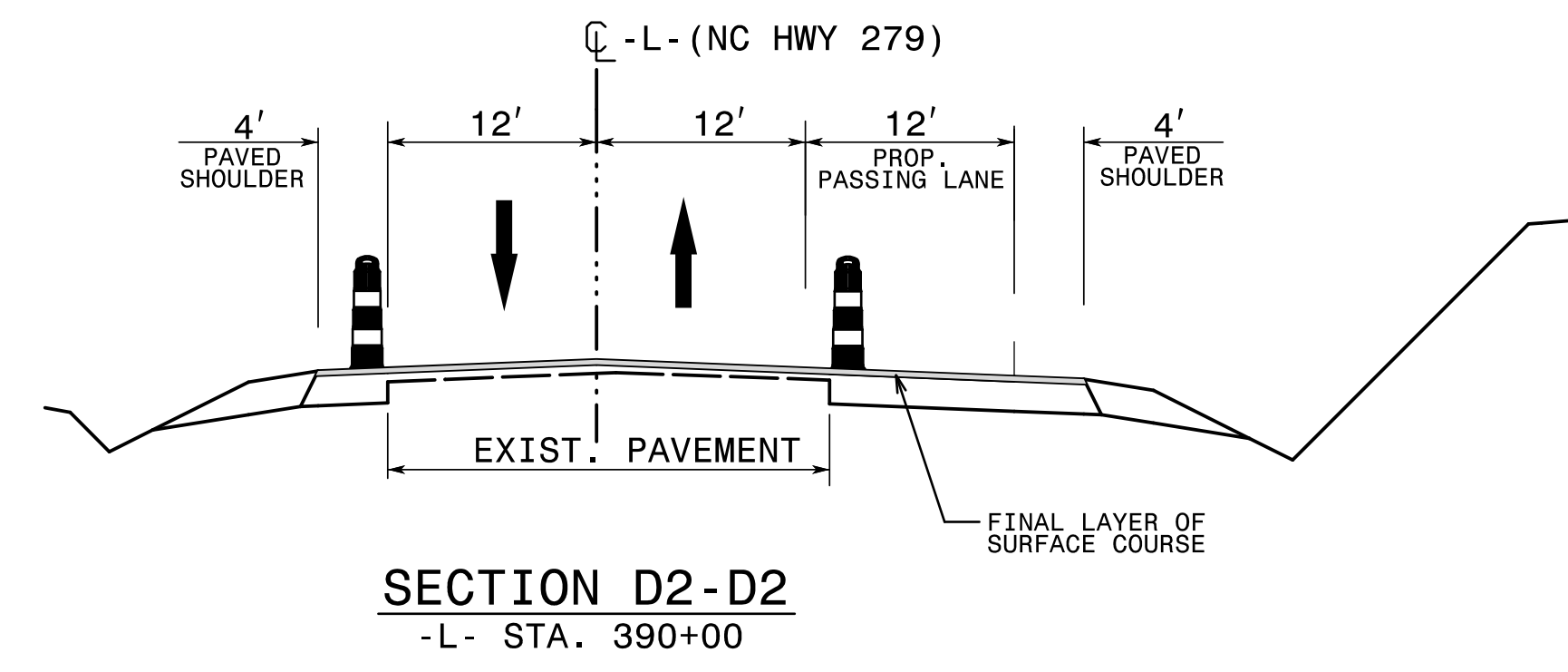
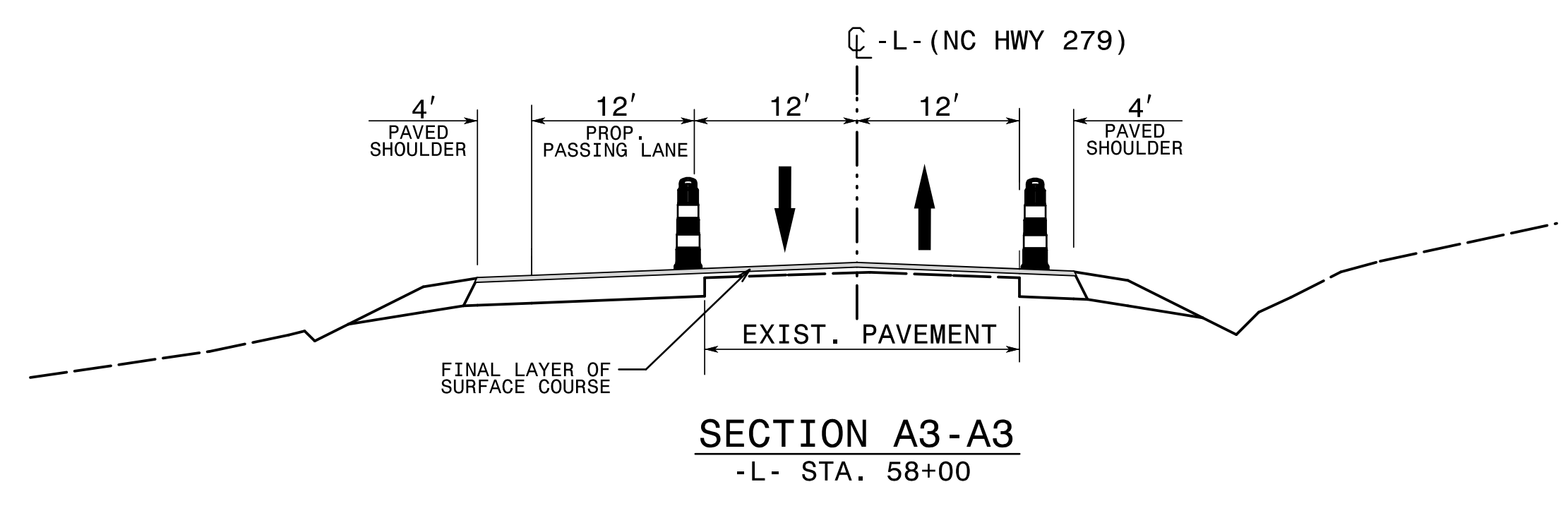
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 PROP. CONSTRUCTION   
 SEE SHEET TMP-13 FOR SECTION

APPROVED: \_\_\_\_\_  
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# PHASE II OVERVIEW

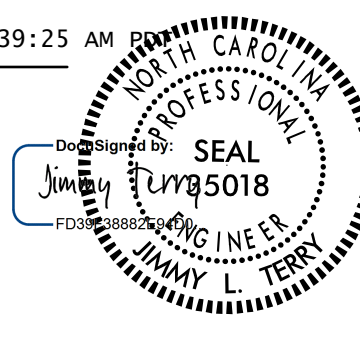
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 User: smelvin



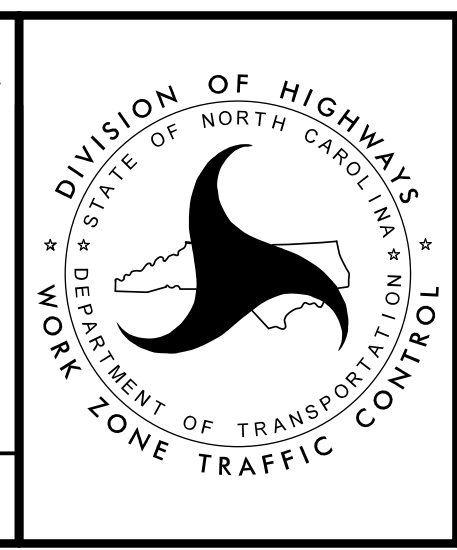
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APPROVED: \_\_\_\_\_  
 DATE: 9/13/2018 5:39:25 AM

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# PHASE II DETAILS