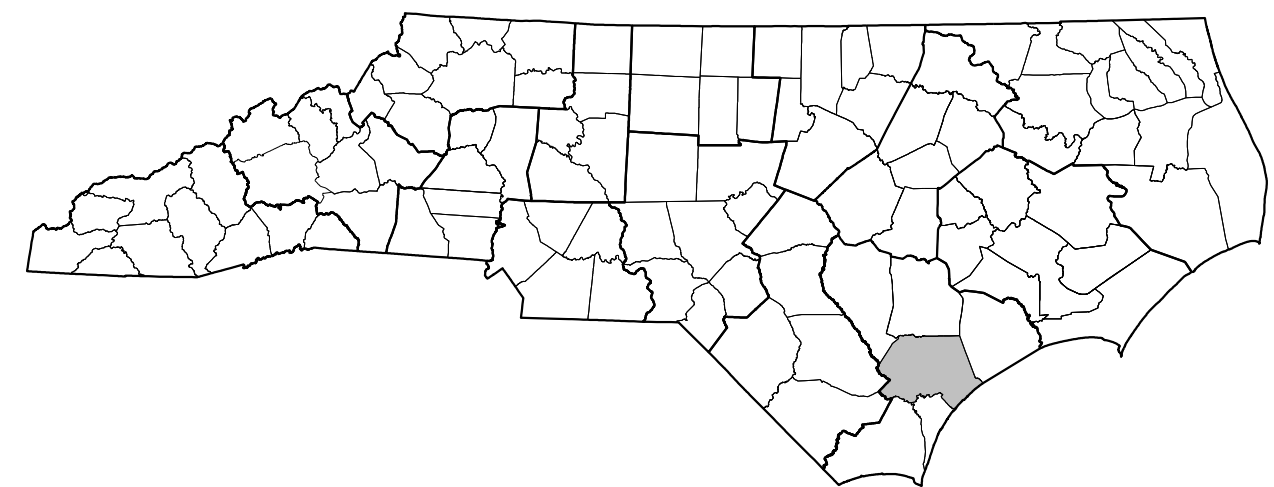


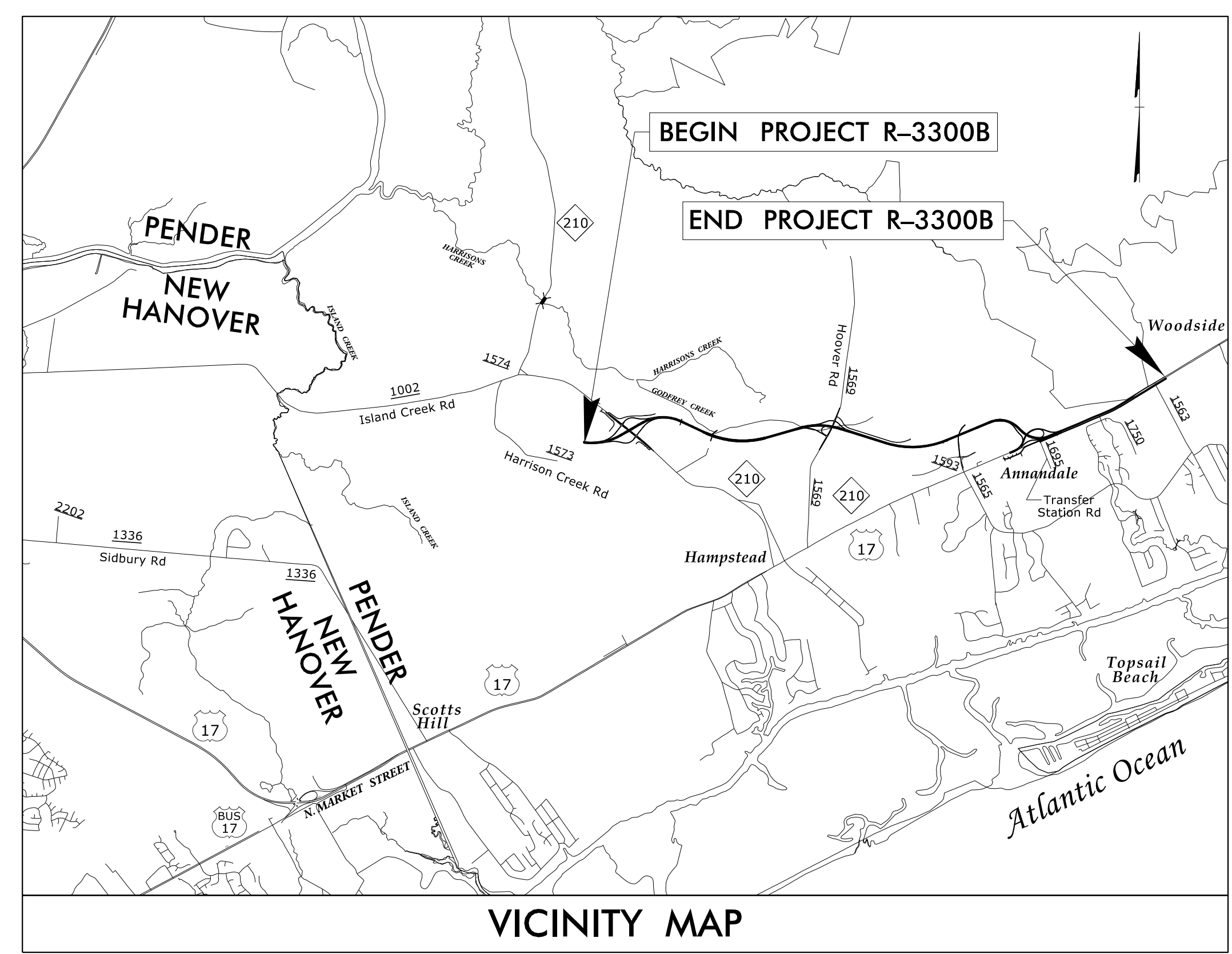
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**TRANSPORTATION MANAGEMENT PLAN**  
**PENDER COUNTY**

**DIVISION 3**



**NC 417 (HAMPSTEAD BYPASS) FROM SOUTH OF NC 210 TO NORTH OF SR 1563 (SLOOP POINT LOOP ROAD)**



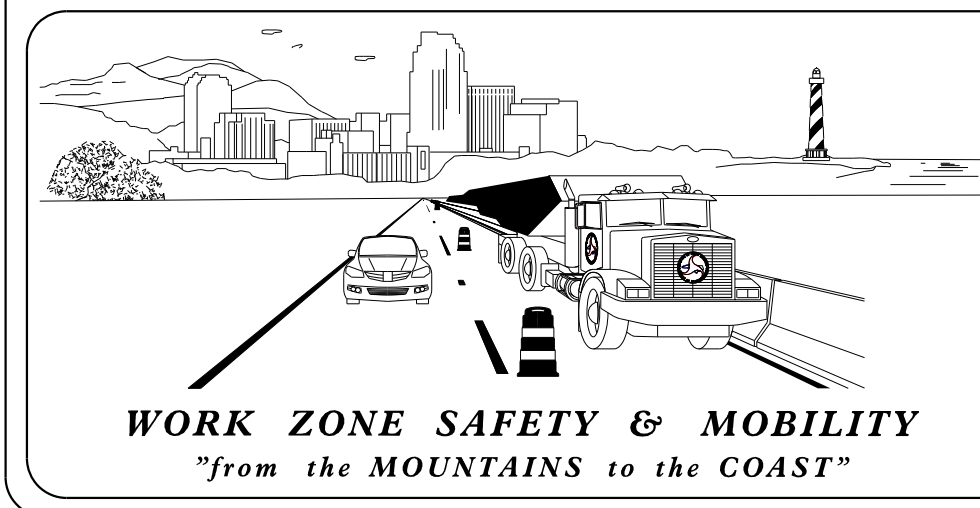
VICINITY MAP

**INDEX OF SHEETS**

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, AND INDEX OF SHEETS
TMP-1A	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, LEGEND, AND TEMPORARY PAVEMENT MARKING SCHEDULE
TMP-1B	WORK ZONE IMPACTS - MANAGEMENT STRATEGIES
TMP-1C, 1D	GENERAL NOTES
TMP-2	AREA DESIGNATIONS
TMP-2A, 2B	TEMPORARY SHORING NOTES
TMP-3, 3A, 3B, 3C	TEMPORARY TRAFFIC CONTROL PHASING
TMP-4-7	AREA 2 PHASE I - NC-210 -Y30-
TMP-8-11	AREA 2 PHASE II - NC-210 -Y30-
TMP-12-15	AREA 2 PHASE III - NC-210 -Y30-
TMP-16-20	AREA 2 PHASE IV - NC-210 -Y30-
TMP-21	AREA 3 PHASE I - HOLIDAY DR -Y38-
TMP-22	AREA 3 PHASE II - HOLIDAY DR -Y38-
TMP-23	AREA 3 PHASE III - HOLIDAY DR -Y38-
TMP-24	AREA 3 PHASE I/II - BRICKYARD RD -Y45-
TMP-25-27	AREA 4 PHASE I - HOOVER RD -Y31-
TMP-28-30	AREA 4 PHASE II - HOOVER RD -Y31-
TMP-31-33	AREA 4 PHASE III - HOOVER RD -Y31-
TMP-34-36	AREA 5 PHASE I STEP 1 - -L- / -Y32- / -Y40- / US-17
TMP-37-40	AREA 5 PHASE I STEP 2 - -L- / -Y32- / -Y40- / US-17
TMP-41-44	AREA 5 PHASE I STEP 3 - -L- / -Y32- / -Y40- / US-17
TMP-45-53	AREA 5 PHASE I STEP 4 - -L- / -Y32- / -Y40- / US-17
TMP-54-57	AREA 5 PHASE II STEP 1 - -L- / -Y32- / -Y40- / US-17
TMP-58-66	AREA 5 PHASE II STEP 2 - -L- / -Y32- / -Y40- / US-17
TMP-67-70	AREA 5 PHASE III - -L- / -Y32- / -Y40- / US-17

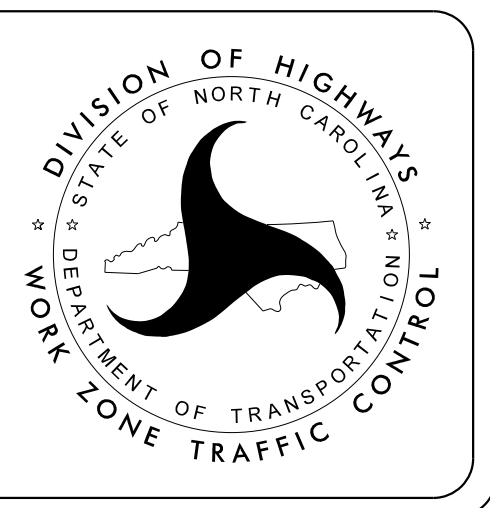
**TIP PROJECT: R-3300B**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

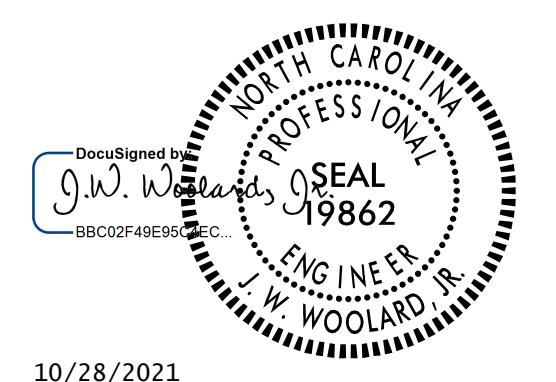


**PLANS PREPARED BY:**  
JAY W. WOOLARD, PE  
SENIOR TRANSPORTATION ENGINEER  
ANDREW N. GOOD  
TRANSPORTATION DESIGNER

**NCDOT CONTACTS:**  
TRACE HOWELL, PE  
DIVISION 3 CONTACT



Stantec Consulting Services Inc.  
801 Jones Franklin Road, Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672



10/28/2021

10/28/2021  
L:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\SR-3300B\_TMP\_01\_TITILE.dgn  
angood

# ROADWAY STANDARD DRAWINGS

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

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1115.01	FLASHING ARROW BOARDS
1130.01	DRUMS
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1160.01	TEMPORARY CRASH CUSHION
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELINEATION
1170.01	PORTABLE CONCRETE BARRIER
1180.01	SKINNY - DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.12	PAVEMENT MARKINGS - BRIDGES

## TEMPORARY PAVEMENT MARKING SCHEDULE

### PAINT PAVEMENT MARKING LINES (4")

- (P1) WHITE EDGELINE
- (P2) WHITE SOLID LANE LINE
- (P3) 10 FT. WHITE SKIP
- (P4) 3 FT. - 9 FT./SP WHITE MINISKIP
- (P5) 2 FT. - 6 FT./SP WHITE MINISKIP
- (P10) YELLOW EDGELINE
- (P13) YELLOW DOUBLE CENTER

### PAINT PAVEMENT MARKING LINES (6")

- (P20) WHITE EDGELINE
- (P23) 3FT. - 9 FT./SP WHITE MINISKIP
- (P30) YELLOW EDGELINE

### PAINT PAVEMENT MARKING LINES (8")

- (P40) WHITE GORELINE
- (P41) WHITE DIAGONAL
- (P42) YELLOW DIAGONAL
- (P43) WHITE SOLID LANE LINE
- (P44) 3 FT. - 9 FT./SP WHITE MINISKIP
- (P46) 3 FT. WHITE CROSSWALK LINE (8")

### PAINT PAVEMENT MARKING LINES (12")

- (P50) WHITE GORELINE
- (P51) WHITE DIAGONAL
- (P52) YELLOW DIAGONAL

### PAINT PAVEMENT MARKING LINES (24")

- (P61) WHITE STOPBAR

### PAINT PAVEMENT MARKING SYMBOLS

- (P70) LEFT TURN ARROW
- (P71) RIGHT TURN ARROW
- (P72) STRAIGHT ARROW
- (P74) COMBO. RIGHT/STRAIGHT ARROW
- (P76) COMBO LEFT/RIGHT/STRAIGHT ARROW
- (P79) MERGE ARROW

### ALPHANUMERIC CHAR THERMOPLASTIC PAVEMENT MARKING LINES (6")

- (T20) WHITE EDGELINE
- (T23) 3FT. - 9 FT./SP WHITE MINISKIP
- (T30) YELLOW EDGELINE
- (MH) TEMPORARY RAISED MARKERS
- (MY) YELLOW & YELLOW, TEMPORARY RAISED PAVEMENT MARKERS
- (MI) CRYSTAL & RED, TEMPORARY RAISED PAVEMENT MARKERS

# LEGEND

## GENERAL

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

## PAVEMENT MARKINGS

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

## PAVEMENT MARKING SYMBOLS

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

- GOLD APPLIED PLASTIC TYPE 4 PAVEMENT MARKING LINES (4")
- (C1) WHITE EDGELINE
- (C3) 10 FT. WHITE SKIP
- (C10) YELLOW EDGELINE
- (C13) YELLOW DOUBLE CENTER

## TRAFFIC CONTROL DEVICES

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

## SIGNALS

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

## TEMPORARY SIGNING

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

## PAVEMENT MARKERS

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

10/27/2021  
L:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\TMP\_01A\_RDWYSTDSLEGEND.dgn  
angood

Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

DocuSigned by:  
J.W. Woolard  
19862  
10/27/2021

DIVISION OF HIGHWAYS  
DEPARTMENT OF TRANSPORTATION  
WORK ZONE TRAFFIC CONTROL

ROADWAY STANDARD DRAWINGS, AND LEGEND


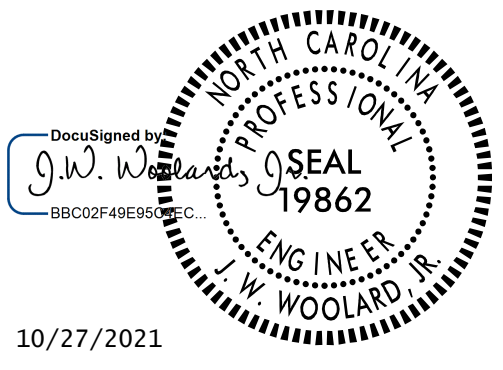
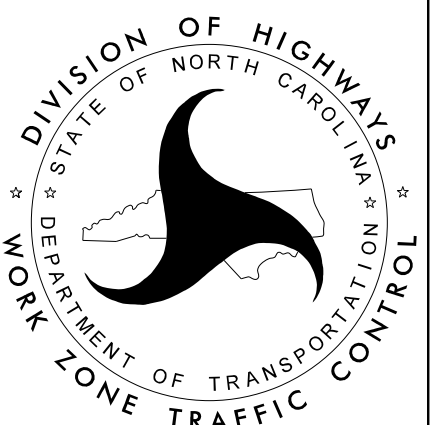
# WORK ZONE IMPACTS MANAGEMENT STRATEGIES

WORK ZONE IMPACTS - MANAGEMENT STRATEGIES ARE IN ACCORDANCE WITH THE FEDERAL PUBLICATION "DEVELOPING AND IMPLEMENTING TRANSPORTATION MANAGEMENT PLANS FOR WORK ZONES" IN THE RULE ON WORK ZONE SAFETY AND MOBILITY 23 CFR 630 SUBPART J.

THE STRATEGIES LISTED BELOW ARE POTENTIAL ANTICIPATED FOR THIS PROJECT, HOWEVER, SOME MAY BE ADDED AND OTHERS MAY BE OMITTED AS THE PLANS PROGRESS TOWARDS THE FINAL STAGE UPON AWARD OF THE PROJECT.

TEMPORARY TRAFFIC CONTROL (TTC)			TRANSPORTATION OPERATIONS (TO)		PUBLIC INFORMATION (PI)
<p><b>A. CONTROL STRATEGIES</b></p> <p>CONSTRUCTION PHASING</p> <p>FULL ROADWAY CLOSURES</p> <p>LANE SHIFTS OR CLOSURES</p> <ul style="list-style-type: none"> <li>o REDUCED LANE WIDTHS TO MAINTAIN NUMBER OF LANES (CONSTRUCTION)</li> <li>o LANE CLOSURES TO PROVIDE WORKER SAFETY</li> <li>o REDUCED SHOULDER WIDTH TO MAINTAIN NUMBER OF LANES</li> </ul> <p>NIGHT WORK</p> <p>WEEKEND WORK</p> <p>WORK HOUR RESTRICTIONS FOR PEAK TRAVEL</p> <p>OFF-SITE DETOURS/USE OF ALTERNATE ROUTES</p>	<p><b>B. TRAFFIC CONTROL DEVICES</b></p> <p>TEMPORARY SIGNS</p> <ul style="list-style-type: none"> <li>o WARNING</li> <li>o REGULATORY</li> <li>o GUIDE/ INFORMATION</li> </ul> <p>CHANGEABLE MESSAGE SIGNS (CMS)</p> <p>ARROW BOARDS</p> <p>CHANNELIZING DEVICES</p> <p>TEMPORARY PAVEMENT MARKINGS</p> <p>FLAGGERS</p> <p>UNIFORMED LAW ENFORCEMENT OFFICERS</p> <p>TEMPORARY TRAFFIC SIGNALS</p> <p>LIGHTING DEVICES</p>	<p><b>C. PROJECT COORDINATION, CONTRACTING AND INNOVATIVE CONSTRUCTION STRATEGIES</b></p> <p>PROJECT COORDINATION</p> <ul style="list-style-type: none"> <li>o COORDINATION WITH OTHER PROJECTS IF NEEDED</li> <li>o UTILITIES COORDINATION</li> <li>o RIGHT-OF-WAY COORDINATION</li> <li>o COORDINATION WITH OTHER TRANSPORTATION INFRASTRUCTURE</li> </ul>	<p><b>A. CORRIDOR/ NETWORK MANAGEMENT STRATEGIES</b></p> <p>TEMPORARY TRAFFIC SIGNALS</p>	<p><b>C. WORK ZONE SAFETY MANAGEMENT STRATEGIES</b></p> <p>TEMPORARY TRAFFIC SIGNALS</p> <p>TEMPORARY TRAFFIC BARRIER</p> <p>CRASH-CUSHIONS</p> <p>CONSTRUCTION SAFETY SUPERVISORS/ INSPECTORS</p>	

9/13/2021 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_01B.MGMT STRATEGIES.dgn angood

 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672</p>	 <p>10/27/2021</p> <p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>		<p><b>WORK ZONE IMPACTS MANAGEMENT STRATEGIES</b></p>
--	---	---	---

# GENERAL NOTES

PROJ. REFERENCE NO. R-3300B	SHEET NO. TMP-1C
--------------------------------	---------------------

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	
US 17	6AM TO 9PM	MON.-SUN.
NC 210, HOOVER RD,	6AM TO 9AM	MON.-FRI.
NC 210, HOOVER RD,	3PM TO 6PM	MON.-FRI.

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

ROAD NAME

US 17  
NC 210  
HOOVER RD.

HOLIDAY

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
  - 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
  - 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
  - 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
  - 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
  - 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
  - 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
  - 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.
- C) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

**LANE AND SHOULDER CLOSURE REQUIREMENTS**

- 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.
- G) 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.
- 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 TRANSPORTATION MANAGEMENT PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- 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 OPEN TRAVEL LANE THAT HAS A DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.
- 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 FT IN ADVANCE AND A MINIMUM OF ONCE 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 TRANSPORTATION MANAGEMENT PLANS.
- PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRANSPORTATION MANAGEMENT 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) 500 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

**TRAFFIC BARRIER**

- Q) 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.


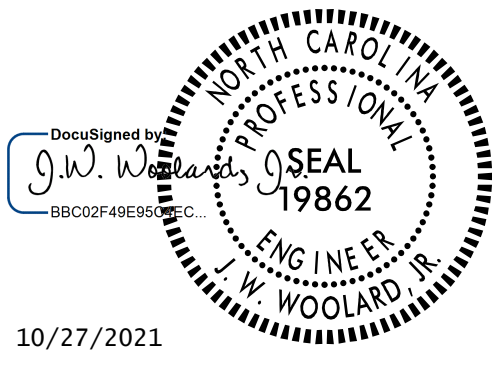
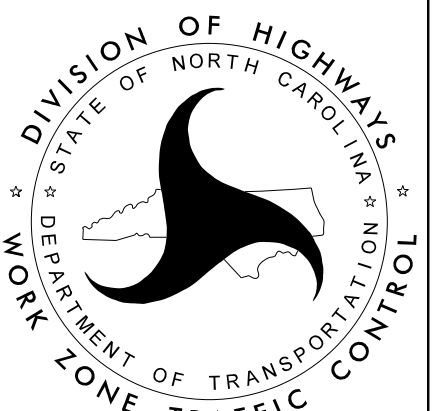
INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

- R) 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:

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

10/27/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\NR-3300B\_TMP\_01C\_GENERAL\_NOTES.dgn  
angood

 Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672	 10/27/2021 <b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>		<h2 style="margin: 0;">GENERAL NOTES</h2>
---	---	---	---

# GENERAL NOTES

**TRAFFIC CONTROL DEVICES**

- S) 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).
- T) PLACE TYPE III BARRICADES WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- U) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS, CONES OR SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON (500 FT) CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

**PAVEMENT MARKINGS AND MARKERS**

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


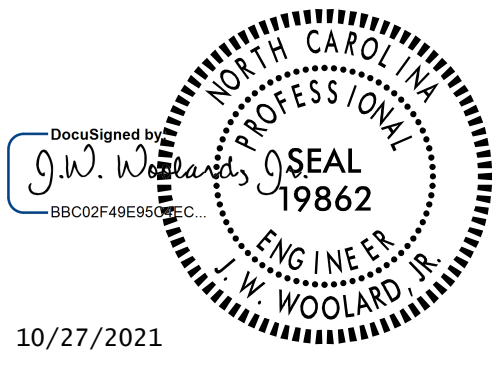
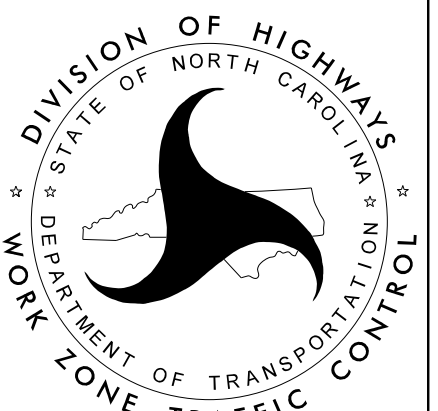
ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT	TEMPORARY RAISED
BRIDGES	COLD APPLIED PLASTIC TYPE IV	TEMPORARY RAISED
- W) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- X) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- Y) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.
- Z) TRACE THE (EXISTING AND/OR PROPOSED) MONOLITHIC ISLAND LOCATIONS WITH THE PROPER COLOR PAVEMENT MARKING PRIOR TO (REMOVAL AND/OR INSTALLATION). PLACE (DRUMS, OR TUBULAR MARKERS) TO DELINEATE ANY (EXISTING AND/OR PROPOSED) MONOLITHIC ISLANDS (AFTER REMOVAL AND/OR BEFORE INSTALLATION).

**MISCELLANEOUS**

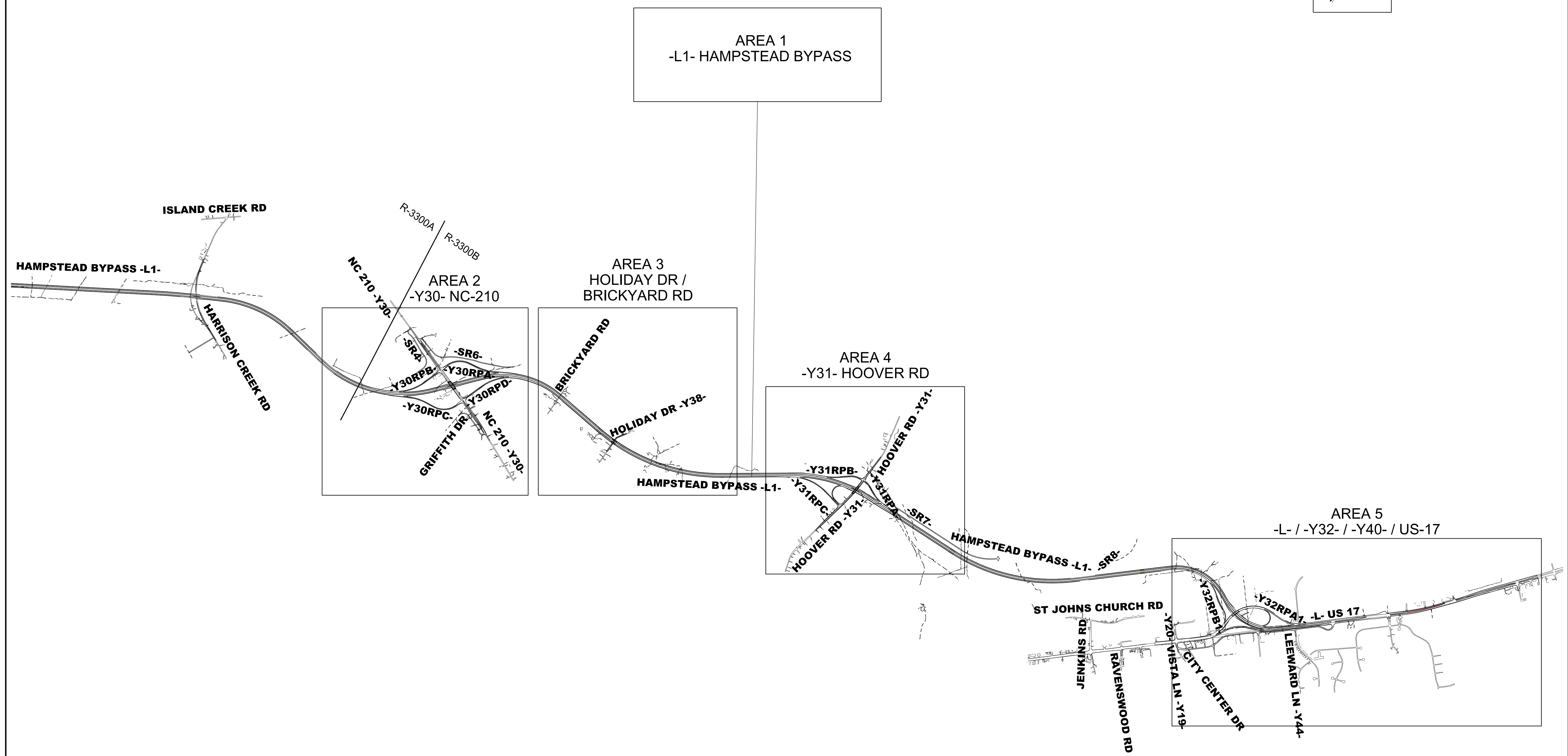
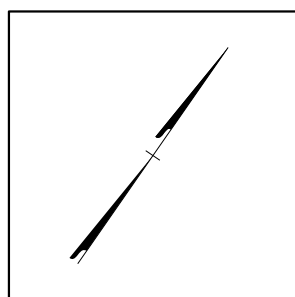
- AA) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE SIGNING AND DELINEATION UNIT.
- BB) CONTRACTOR SHALL MAINTAIN SIDEWALK ACCESS AT ALL TIMES AS STATED IN THE PHASING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SIDEWALKS (CONCRETE, ASPHALT, OR OTHER SUITABLE MATERIAL AS APPROVED BY THE ENGINEER) AT ALL LOCATIONS WHERE THE OPEN PEDESTRIAN TRAVELWAY HAS BEEN REMOVED FOR CONSTRUCTION OPERATIONS (UTILITIES, DRAINAGE, ETC.).
- CC) MAINTAIN VEHICULAR ACCESS TO ALL DRIVEWAYS DURING THE LIFE OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PHASING OR DIRECTED BY THE ENGINEER. USE INCIDENTAL STONE WHEN NECESSARY.
- DD) ALL DIMENSIONS AND STATIONS IN THE TRANSPORTATION MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.

- EE) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.
- FF) COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.
- GG) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 814-3700 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- HH) MAINTAIN EXISTING GUARDRAIL UNTIL PROPOSED FILL SLOPES ARE COMPLETED TO THE POINT THAT FIELD CONDITIONS NO LONGER MEET GUARDRAIL WARRANTS AS DIRECTED BY THE ENGINEER.
- II) MAINTAIN ALL EXISTING SIGNING ON PROJECT (WARNING, REGULATORY AND GUIDE SIGNS). WHERE CONSTRUCTION AFFECTS THE LOCATION OF A SIGN, RELOCATE AS NECESSARY, OR INSTALL REPLACEMENT SUCH THAT THE FUNCTION OF THE SIGN IS MAINTAINED AT ALL TIMES. DURING RELOCATION OF STOP SIGNS PROVIDE FLAGGERS WITH "FLAGGER AHEAD" (W20-7a) AND "BE PREPARED TO STOP" (W3-4) SIGNS AS NECESSARY TO MAINTAIN INTERSECTION TRAFFIC.
- JJ) DRAINAGE CONSTRUCTION SHOWN IN THE TRANSPORTATION MANAGEMENT PLAN IS A GENERAL REPRESENTATION OF WORK TO BE PERFORMED DURING A PARTICULAR PHASE OF CONSTRUCTION. REFER TO THE ROADWAY PLANS FOR DRAINAGE ITEMS. IN THE EVENT THERE IS A DISCREPANCY BETWEEN WHAT IS SHOWN IN THE TRANSPORTATION MANAGEMENT PLAN AND THE ROADWAY PLAN, THE ROADWAY PLAN SHALL GOVERN OVER THE TRANSPORTATION MANAGEMENT PLAN.
- KK) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7), AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 100 FEET AND 500 FEET RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS (REFER TO RSD 1101.11 SHEET 4 OF 4). USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

10/27/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_01D\_GENERAL NOTES.dgn  
 angood

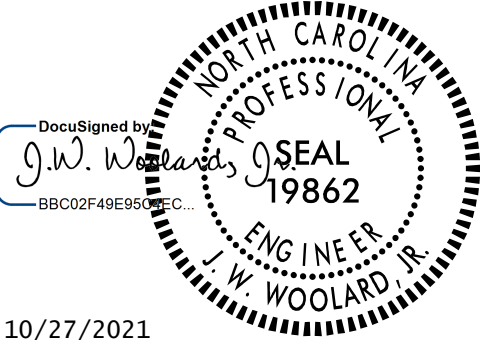
 <p>Stantec Consulting Services Inc.                  801 Jones Franklin Road                  Suite 300                  Raleigh, NC 27606                  Tel. 919.851.6866                  Fax. 919.851.7024                  www.stantec.com                  License No. F-0672</p>	<p style="font-size: small;">DocuSigned by:                  J.W. Woolard                  B8C02F49E83E...</p>  <p style="font-size: x-small;">10/27/2021</p> <p style="font-weight: bold; font-size: small;">DOCUMENT NOT CONSIDERED FINAL                  UNLESS ALL SIGNATURES COMPLETED</p>		<h2 style="margin: 0;">GENERAL NOTES</h2>
---	---	---	---

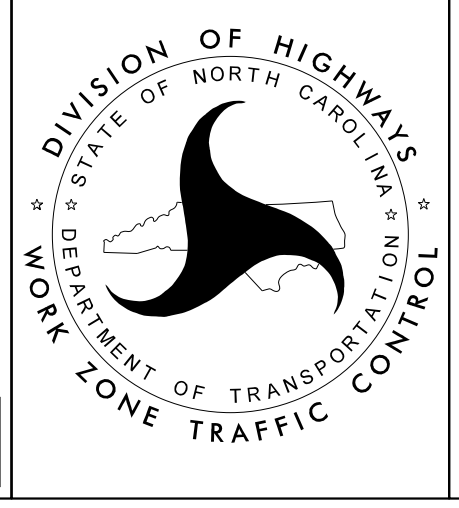
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-2



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_02.AREA DESIGNATIONS.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Document signed by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



AREA DESIGNATIONS

SEE SHEET TMP-38

TEMPORARY SHORING LOCATION NO. 01 ESTIMATED QUANTITY = 400.0 SF

-Y40- STA. 238+75, 29.4' RT TO -Y40- STA. 239+25, 46.4' RT  
 LENGTH=50.0' AVERAGE HEIGHT = 8.0' MAX HEIGHT = 8.0'

1. FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
2. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
3. DESIGN TEMPORARY SHORING FROM -Y40- STATION 238+75, 29.4' RT TO STATION 239+25, 46.4' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 38 FT
4. AT THE CONTRACTOR'S OPTION, USE A STANDARD SHORING FOR TEMPORARY SHORING FROM -Y40- STATION 238+75, 29.4' RT TO STATION 239+25, 46.4' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-38

TEMPORARY SHORING LOCATION NO. 02 ESTIMATED QUANTITY = 400.0 SF

-Y40- STA. 238+75, 31.4' RT TO -Y40- STA. 239+25, 48.4' RT  
 LENGTH=50.0' AVERAGE HEIGHT = 8.0' MAX HEIGHT = 8.0'

1. FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
2. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
3. DESIGN TEMPORARY SHORING FROM -Y40- STATION 238+75, 31.4' RT TO STATION 239+25, 48.4' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 38 FT
4. AT THE CONTRACTOR'S OPTION, USE A STANDARD SHORING FOR TEMPORARY SHORING FROM -Y40- STATION 238+75, 31.4' RT TO STATION 239+25, 48.4' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-40

TEMPORARY SHORING LOCATION NO. 03 ESTIMATED QUANTITY = 720.0 SF

-LLT- STA. 319+75, 42.0' RT TO -LLT- STA. 320+65, 42.0' RT  
 LENGTH=90.0' AVERAGE HEIGHT = 8.0' MAX HEIGHT = 8.0'

1. FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
2. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
3. DESIGN TEMPORARY SHORING FROM -LLT- STATION 319+75, 42.0' RT TO STATION 320+65, 42.0' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 40 FT
4. AT THE CONTRACTOR'S OPTION, USE A STANDARD SHORING FOR TEMPORARY SHORING FROM -LLT- STATION 319+75, 42.0' RT TO STATION 320+65, 42.0' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

SEE SHEET TMP-40

TEMPORARY SHORING LOCATION NO. 04 ESTIMATED QUANTITY = 720.0 SF

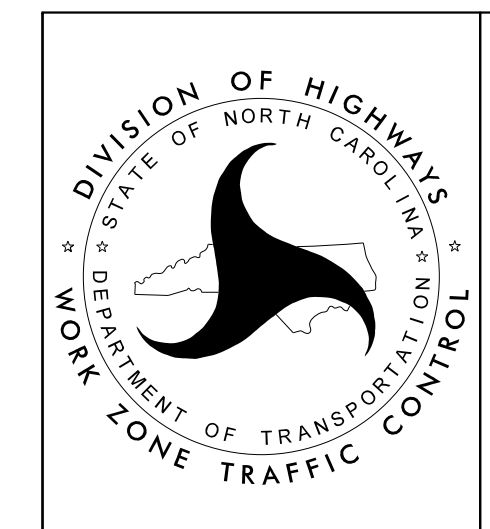
-LRT- STA. 319+75, 26.0' LT TO -LRT- STA. 320+65, 26.0' LT  
 LENGTH=90.0' AVERAGE HEIGHT = 8.0' MAX HEIGHT = 8.0'

1. FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.
2. BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.
3. DESIGN TEMPORARY SHORING FROM -LRT- STATION 319+75, 26.0' LT TO STATION 320+65, 26.0' LT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 40 FT
4. AT THE CONTRACTOR'S OPTION, USE A STANDARD SHORING FOR TEMPORARY SHORING FROM -LRT- STATION 319+75, 26.0' LT TO STATION 320+65, 26.0' LT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.01 FOR STANDARD TEMPORARY SHORING.

9/24/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_02A\_TEMPORARY\_SHORING\_NOTES.dgn  
 angood

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO STANTEC CONSULTING ON (SEPTEMBER 21, 2021) AND SEALED BY A PROFESSIONAL ENGINEER, (JEREMY R. HAMM), LICENSE #039779.



TEMPORARY SHORING NOTES

TEMPORARY SHORING LOCATION NO. 05 SEE SHEET TMP-45  
 ESTIMATED QUANTITY = 3020.8 SF

-Y32- STA. 12+32, 18.2' RT TO -Y32- STA. 17+04, 18.2' RT  
 LENGTH=472.0' AVERAGE HEIGHT = 6.4' MAX HEIGHT = 13.6'

- 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 -Y32- STATION 12+32, 18.2' RT TO 17+04, 18.2' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 38 FT
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -Y32- STATION 12+32, 18.2' RT TO 17+04, 18.2' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

TEMPORARY SHORING LOCATION NO. 06 SEE SHEET TMP-45  
 ESTIMATED QUANTITY = 845.6 SF

-Y32- STA. 17+01, 16.8' RT TO -Y32- STA. 17+01, 78.3' RT  
 LENGTH=61.5' AVERAGE HEIGHT = 13.8' MAX HEIGHT = 13.9'

- 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 -Y32- STATION 17+01, 16.8' RT TO 17+01, 78.3' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 38 FT
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -Y32- STATION 17+01, 16.8' RT TO 17+01, 78.3' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

TEMPORARY SHORING LOCATION NO. 07 SEE SHEET TMP-45,46  
 ESTIMATED QUANTITY = 2680.9 SF

-Y40- STA. 238+27, 13.4' RT TO -Y40- STA. 241+50, 125.9' RT  
 LENGTH= 323.0' AVERAGE HEIGHT = 8.3' MAX HEIGHT = 16.5'

- 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 -Y40- STATION 238+27, 13.4' RT TO 241+50, 125.9' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 38 FT
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -Y40- STATION 238+27, 13.4' RT TO 241+50, 125.9' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

TEMPORARY SHORING LOCATION NO. 08 SEE SHEET TMP-54  
 ESTIMATED QUANTITY = 4419.0 SF

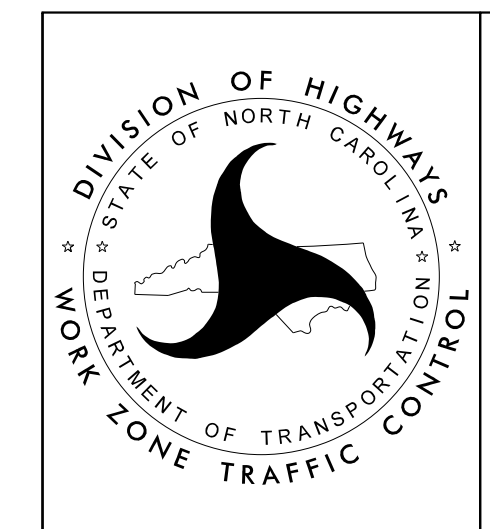
-Y40- STA. 233+44, 16.0' RT TO -Y40- STA. 238+35, 16.0' RT  
 LENGTH=491.0' AVERAGE HEIGHT = 9.0' MAX HEIGHT = 16.5'

- 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 -Y40- STATION 233+44, 16.0' RT TO 238+35, 16.0' RT FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:
 

UNIT WEIGHT, ( $\gamma$ ) = 120 LB/CF  
 FRICTION ANGLE, ( $\phi$ ) = 30 DEGREES  
 COHESION, c = 0 LB/SF  
 GROUNDWATER ELEVATION = 40 FT
- AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM -Y40- STATION 233+44, 16.0' RT TO 238+35, 16.0' RT. SEE GEOTECHNICAL STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

9/24/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_02B\_TEMPORARY\_SHORING\_NOTES.dgn  
 angood

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH A SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEER. THE DOCUMENT WAS SUBMITTED TO STANTEC CONSULTING ON (SEPTEMBER 21, 2021) AND SEALED BY A PROFESSIONAL ENGINEER, (JEREMY R. HAMM), LICENSE #039779.



TEMPORARY SHORING NOTES



# PHASING

## AREA 1

PHASE 1: (NOT SHOWN)

AWAY FROM TRAFFIC, BEGIN CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

- L1- STA. 578+00± TO STA. 602+30±
- L1- STA. 610+00± TO STA. 638+00±
- L1- STA. 639+00± TO STA. 657+00±
- L1- STA. 663+00± TO STA. 728+00±
- L1- STA. 732+00± TO STA. 820+00±
- L1\_NORTHERN- STA. 820+00± TO STA. 860+00±
- L1\_NORTHERN MEDIAN- STA. 820+00± TO STA. 864+00±

PHASE 2: (NOT SHOWN)

AWAY FROM TRAFFIC, PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS (SEE FINAL PAVEMENT MARKING PLANS). REMOVE ANY TRAFFIC CONTROL DEVICES AND OPEN -L1- (HAMPSTEAD BYPASS) TO TRAFFIC.

## AREA 2

NOTE: DELAY OF ENTRY FOR 365 DAYS IN AREA 2, 60' RT OF -Y30- (NC 210) AND 300' LT OF -Y30- (NC 210) FROM STA. 18+30 TO STA. 60+27.

PHASE 1: (TMP-4 TO TMP-7)

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -Y30- (NC-210), HIDDEN BLUFF RD, GRIFFITH DR, AND WINGDING BRANCH RD, PER ROADWAY STANDARD DRAWING 1101.01, SHEET 3 OF 3.

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

- CONSTRUCT PROPOSED -Y30DET- STA. 16+73± TO STA. 62+57±.
- BEGIN CONSTRUCTION OF PROPOSED -SR4- STA. 10+13± TO STA. 10+29, STA. 10+59± TO STA. 12+92±, AND STA. 20+88± TO 27+65± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -SR5- STA. 11+04± TO STA. 12+40± AND STA. 18+56± TO 21+20± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- CONSTRUCT PROPOSED -SR6- STA. 10+12± TO STA. 39+89± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPA- STA. 5+00± (NOT SHOWN) TO STA. 24+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPB- STA. 5+00± (NOT SHOWN) TO STA. 20+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPC- STA. 5+00± (NOT SHOWN) TO STA. 24+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPD- STA. 5+00± (NOT SHOWN) TO STA. 22+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

## AREA 2

PHASE 2: (TMP-8 TO TMP-11)

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

STEP 1:

PLACE TEMPORARY MARKINGS ON -Y30DET- AND -SR6-. SHIFT TRAFFIC ONTO -SR6- AND -Y30DET-. CLOSE -Y30- (NC-210).

STEP 2:

- BEGIN CONSTRUCTION OF PROPOSED -Y30- (NC-210) STA. 16+73± TO STA. 22+25±, AND STA. 59+00± TO STA. 61+73± TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT.
- CONSTRUCT PROPOSED -Y30- (NC-210) STA. 22+25± TO STA. 59+00± INCLUDING PROPOSED STRUCTURE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) STA. 603+80± TO STA. 608+20± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -SR5- STA. 10+31± TO STA. 10+69± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPA- STA. 24+00± TO STA. 25+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPB- STA. 21+00± TO STA. 21+88± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPC- STA. 25+00± TO STA. 25+88± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y30RPD- STA. 22+00± TO STA. 23+75± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

## AREA 2

PHASE 3: (TMP-12 TO TMP-15)

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

STEP 1:

COMPLETE CONSTRUCTION OF PROPOSED -Y30- (NC-210) FROM STA. 16+73± TO STA. 22+25±, AND STA. 59+00± TO STA. 62+36± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY MARKINGS IN PHASE III ON -Y30-, AND SHIFT TRAFFIC ONTO PROPOSED -Y30-. CLOSE OLD -Y30DET-. (SEE TMP-12-15)

STEP 2:

- REMOVE -Y30DET-
- COMPLETE CONSTRUCTION OF PROPOSED -SR4- STA. 10+13± TO STA. 27+65± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, PLACE TEMPORARY PAVEMENT MARKINGS, AND OPEN -SR4- TO TRAFFIC.
- COMPLETE CONSTRUCTION OF PROPOSED -SR5- STA. 10+24± TO STA. 21+20± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, PLACE TEMPORARY PAVEMENT MARKINGS, AND OPEN -SR5- TO TRAFFIC.
- COMPLETE CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) STA. 602+30± TO STA. 608+20± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y30RPA- STA. 5+00± (NOT SHOWN) TO STA. 25+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y30RPB- STA. 5+00± (NOT SHOWN) TO STA. 21+88± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y30RPC- STA. 5+00± (NOT SHOWN) TO STA. 25+88± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y30RPD- STA. 5+00± (NOT SHOWN) TO STA. 23+75± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

STEP 3:


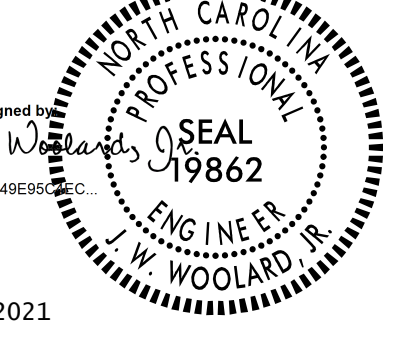

PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS ON -Y30-, -Y30RPA-, -Y30RPB-, -Y30RPC-, -Y30PRD-, -SR4-, -SR5-, AND -SR6-. REMOVE ANY TRAFFIC CONTROL DEVICES AND OPEN TO THE FINAL TRAFFIC PATTERN.

PHASE 4: (TMP-16 TMP-20)

NOTE: AREA 2 PHASE 4 MUST BE PERFORMED IN CONJUNCTION WITH AREA 1, PHASE 2.

PLACE TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR AN ALL EXIT ONTO NC 210 AND OPEN -L1- TO TRAFFIC AS SHOWN ON TMP-16 TO TMP-20.

11/16/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_03\_PHASING.dgn  
 angood

 <p>Stantec Consulting Services Inc.              801 Jones Franklin Road              Suite 300              Raleigh, NC 27606              Tel. 919.851.6866              Fax. 919.851.7024              www.stantec.com              License No. F-0672</p>	<p>DocuSigned by:  <i>J.W. Williams</i>              8802F49E8E</p>  <p>11/16/2021</p> <p><b>DOCUMENT NOT CONSIDERED FINAL              UNLESS ALL SIGNATURES COMPLETED</b></p>		<p style="text-align: center; font-weight: bold;">PHASING</p>
---	--	---	---

# PHASING

## AREA 3

NOTE: DELAY OF ENTRY OF 180 DAYS IN AREA 3, 60' RT OF -Y38- (HOLIDAY DRIVE) AND 40' LT OF -Y38- (HOLIDAY DRIVE) FROM STA. 16+50 TO STA. 25+10.

**PHASE 1: (TMP-21,24)**

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -Y38- (HOLIDAY DR), AND BRICKYARD RD PER ROADWAY STANDARD DRAWING 1101.01, SHEET 3 OF 3. (SEE TMP-21)

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

STEP 1: CONSTRUCT TEMPORARY PAVEMENT -Y38DET- FROM STA. 17+50± TO 24+75± INCLUDING 48" DRAINAGE PIPE EXTENSIONS AT THE EXISTING CULVERT.

**STEP 2:**

- CLOSE -Y45- (BRICKYARD RD) TO TRAFFIC. (SEE TMP-24)
- BEGIN CONSTRUCTION OF PROPOSED -Y45- (BRICKYARD RD) FROM STA. 14+03± TO STA. 15+15± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TMP-19)
- BEGIN CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) STA. 638+00± TO STA. 639+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TMP-24)

**PHASE 2: (TMP-22,24)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWINGS 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

STEP 1: INSTALL TEMPORARY MARKINGS AND TRAFFIC CONTROL DEVICES ON -Y38- AND -Y38DET-, MOVING TRAFFIC TO -Y38DET- AND CLOSE -Y38-.

**STEP 2:**

- CONSTRUCT PROPOSED -Y38- (HOLIDAY DR) STA. 17+15± TO STA. 25+00± WEDGING AS NECESSARY TO MAINTAIN TRAFFIC ON -Y38DET- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, INCLUDING PROPOSED CULVERT UNDER HOLLIDAY DR.
- INSTALL TEMPORAY MARKINGS AND REMOVE TRAFFIC CONTROL DEVICES ON -Y38- AND OPEN TO FINAL PATTERN.
- COMPLETE CONSTRUCTION OF PROPOSED -Y45- (BRICKYARD RD) FROM STA. -Y45- 14+03± TO STA. 15+15± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (TMP-24).
- COMPLETE CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) STA. 638+00± TO STA. 639+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- REMOVE AND GRADE TO DRAIN -Y45- (BRICKYARD RD) FROM STA. 9+63± TO STA. 14+03±.

**PHASE 3: (TMP-23)**

**STEP 1:**

- CONSTRUCT -L1N- FROM STA. 663+00± (NOT SHOWN) TO STA. 657+99± INCLUDING CULVERT AT STA. 666+00±
- REMOVE -Y38DET- INCLUDING TEMPORARY GUARDRAIL ANCHOR UNIT AT -Y38- STA. 18+75± .
- CONSTRUCT PROPOSED GUARDRAIL ANCHOR UNIT AT -Y38- STA. 18+25± AND PROPOSED DRIVEWAY AT -Y38- STA. 24+00±

STEP 2: PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS ON -Y38- AND BRICKYARD RD. REMOVE ANY TRAFFIC CONTROL DEVICES AND OPEN TO THE FINAL TRAFFIC PATTERN.

## AREA 4

NOTE: DELAY OF ENTRY OF 180 DAYS IN AREA 4, 100' LT OF -Y31- (HOOVER ROAD) AND 100' RT OF -Y31- (HOOVER ROAD) FROM STA. 18+20 TO STA. 46+85.

**PHASE 1: (TMP-25,26,27)**

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -Y31- (HOOVER RD), PER ROADWAY STANDARD DRAWING 1101.01, SHEET 3 OF 3.

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

- CONSTRUCT -Y31DET- STA. 18+21± TO 47+13±.
- BEGIN CONSTRUCTION OF PROPOSED -SR7- STA. 10+20± TO STA. 57+68± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31RPA- STA. 5+00± (NOT SHOWN) TO STA. 15+50± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31RPB- STA. 5+00± (NOT SHOWN) TO STA. 17+30± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31RPC- STA. 5+00± (NOT SHOWN) TO STA. 21+30± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31LPC- STA. 5+00± TO STA. 12+47±UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

**PHASE 2: (TMP-28,29,30)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

**STEP 1:**

PLACE TEMPORARY MARKINGS ON -Y31DET-, CLOSE -Y31- (HOOVER RD) AND PLACE TRAFFIC ON -Y31DET-.

**STEP 2:**

- BEGIN CONSTRUCTION OF PROPOSED -Y31- (HOOVER RD) STA. 18+21± TO STA. 20+44± AND STA. 44+42± TO 45+98± TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT.
- CONSTRUCT PROPOSED -Y31- (HOOVER RD) STA. 20+44± TO STA. 44+42± INCLUDING PROPOSED STRUCTURE UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -L1- STA. 729+90± TO STA. 732+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -SR7- FROM STA. 10+20± TO STA. 57+68± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

## AREA 4

**PHASE 2: (TMP-28,29,30) CONTINUED**

- BEGIN CONSTRUCTION OF PROPOSED -Y31RPA- FROM STA. 15+50± TO STA. 15+86± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31RPB- FROM STA. 18+50± TO STA. 19+33± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31RPC- FROM STA. 22+30± TO STA. 23+18± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN CONSTRUCTION OF PROPOSED -Y31LPC- FROM STA. 13+47± TO STA. 14+35± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

**PHASE 3: (TMP-31,32,33)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14 PERFORM THE FOLLOWING:

**STEP 1:**

COMPLETE CONSTRUCTION OF PROPOSED -Y31 (HOOVER RD)- FROM STA. 14+90± TO STA. 18+21±, AND STA. 45+98± TO STA. 47+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. PLACE TEMPORARY MARKINGS IN THE FINAL PATTERN ON ALL OF -Y31-, AND SHIFT TRAFFIC ONTO PROPOSED -Y31- AND -SR7-. CLOSE OLD -Y31DET-.

**STEP 2:**

- REMOVE -31DET-.
- COMPLETE CONSTRUCTION OF PROPOSED -L1- (HAMPSTEAD BYPASS) STA. 728+00± TO STA. 732+00± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y31RPA- STA. 5+00± (NOT SHOWN) TO STA. 15+86± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y31RPB- STA. 5+00± (NOT SHOWN) TO STA. 19+33± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y31RPC- STA. 5+00± (NOT SHOWN) TO STA. 23+18± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED -Y31LPC- STA. 5+00± TO STA. 14+35± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

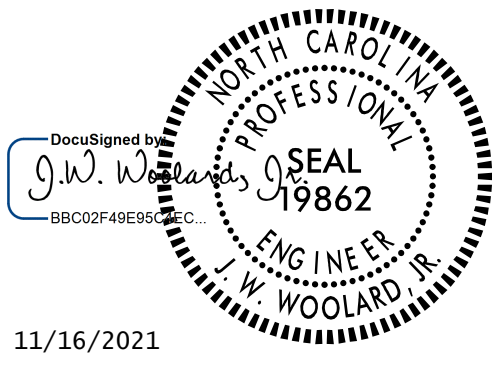
**STEP 3:**

PLACE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS. REMOVE ANY TRAFFIC CONTROL DEVICES AND OPEN -Y31-, -Y31RPA-, -Y31RPB-, -Y31RPC-, -Y31LPC, AND -SR7- TO THE FINAL TRAFFIC PATTERN.


11/16/2021 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_03A\_PHASING.dgn angood



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672



11/16/2021  
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



DIVISION OF HIGHWAYS  
DEPARTMENT OF TRANSPORTATION  
STATE OF NORTH CAROLINA

PHASING

# PHASING

## AREA 5

NOTE: DELAY OF ENTRY OF 548 DAYS IN AREA 5, 150' RT OF -L- (US 17) AND 150' LT OF -L- (US 17) FROM STA. 219+72 TO STA. 332+55. DELAY OF ENTRY IN AREA 5 INCLUDES DELAY OF WORK AT Y-19, Y-20, Y-43, Y-44, Y-25, Y-35, AND Y-26.

**PHASE 1: (TMP-34 TO TMP-53)**

PRIOR TO ANY WORK OPERATIONS, INSTALL WORK ZONE ADVANCE WARNING SIGNS ON -L- (US-17), PER ROADWAY STANDARD DRAWING 1101.01, SHEET 3 OF 3.

**STEP 1: (TMP-34 TO TMP-36)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 PERFORM THE FOLLOWING (SEE TMP-34,35,36):

- CONSTRUCT -L- STA 239+55± TEMPORARY EXTENSION OF EXISTING CULVERT.
- CONSTRUCT -DET2REV- STA. 10+30± TO STA. 19+64±.
- CONSTRUCT -LRT- STA. 320+32± TEMPORARY EXTENSION OF EXISTING CULVERT BEHIND EXISTING GUARDRAIL PRIOR TO CONSTRUCTING WIDENING.
- CONSTRUCT -LDET6- LEFT STA. 311+29± TO STA. 325+37±.
- CONSTRUCT -LDET6- RIGHT STA. 311+96± TO STA. 322+15±.

**STEP 2: (TMP-37 TO TMP-40)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, PERFORM THE FOLLOWING:

- A)
  - CONSTRUCT TIE INS -DET2REV-/US 17, PLACE PCB AND TEMPORARY CRASH CUSHION FROM: -L- STA. 237+55± TO -L- STA.242+84±. PLACE TEMPORARY PAVEMENT MARKINGS ON -DET2REV-.
- SHIFT -L- (US 17) TRAFFIC ON TO -DET2REV- IN THE TRAFFIC PATTERN SHOWN ON TMP-37 & 38.
- BEGIN CONSTRUCTION OF PROPOSED DMS-3 AND DMS-4 ON US 17 SOUTH OF PROJECT AS SHOWN IN THE CONSTRUCTION PLANS.
- USE INCIDENTAL STONE TO MAINTAIN TRAFFIC ON CITY CENTER DRIVE AND -Y42- (ANNANDALE TRACE) WHILE CONSTRUCTING -Y19-, CITY CENTER DR, AND -Y42- TIE-INS.
- WEDGE EXISTING VISTA LANE AS NEEDED TO MAINTAIN TRAFFIC WHILE CONSTRUCTING -Y19- AND INSTALL TEMPORARY SIGNAL.

## AREA 5

NOTE: CONSTRUCT AREA 5, PHASE I, STEPS 2B THRU 3B IN 105 CONSECUTIVE CALENDAR DAYS [15 WEEKS]. (SEE SPECIAL PROVISIONS)

- B)
  - INSTALL SIGNS, DEVICES, AND RUMBLE STRIPS AS SHOWN ON TMP-40A.
  - CONSTRUCT TIE INS -LDET6-/US 17, PLACE PCB AND TEMPORARY CRASH CUSHION FROM: -LRT- STA. 309+20± TO -LRT- STA.324+00±, -LRT- STA. 316+90± TO -LRT- STA.320+80±, -LRT- STA. 316+90± TO -LRT- STA.321+90±. PLACE TEMPORARY PAVEMENT MARKINGS ON -LDET6-.
  - ACTIVATE TEMPORARY SIGNAL AND SHIFT -L- (US 17) TRAFFIC ON TO -LDET6- IN THE TRAFFIC PATTERN SHOWN ON TMP-39 & 40.
  - INSTALL TEMPORARY SHORING #1, AND #2. CONSTRUCT STAGE 1 OF THE PROPOSED CULVERT. PLACE TEMPORARY PAVEMENT ACROSS PROPOSED CULVERT AS NECESSARY TO MAINTAIN APPROPRIATE COVER OVER THE CULVERT AS SHOWN ON TMP-38.
  - INSTALL TEMPORARY SHORING #3, AND #4. CONSTRUCT STAGE 1 OF THE PROPOSED CULVERT AS SHOWN ON TMP-40.
  - CONSTRUCT -DET1REV- FROM STA. 12+30± TO STA. 22+53± AND -Y19- FROM STA. 10+37± TO STA. 24+50± (INCLUDING TEMPORARY TIE-IN FROM -Y19- TO -L-).
  - CONSTRUCT -LDET7- LEFT STA. 313+52± TO STA. 325+67±.
  - CONSTRUCT -LDET7- RIGHT STA. 311+05± TO STA. 315+66±, AND -LDET7- RIGHT STA. 316+35± TO STA. 323+16±.

NOTE: PHASE I, STEP 3C MAY BE CONSTRUCTED SIMULTANEOUSLY WITH PHASE I, STEPS 3A AND 3B.

**STEP 3: (TMP-41 TO TMP-44 AND TMP-51 TO TMP-53)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 AS NEEDED, PERFORM THE FOLLOWING:

- A)
  - CONSTRUCT TIE INS -LDET7-/US 17, PLACE PCB AND TEMPORARY CRASH CUSHION FROM:-LLT- STA. 318+20± TO -LLT- STA.324+60±, -LLT- STA. 319+00± TO -LLT- STA.321+45±. PLACE TEMPORARY PAVEMENT MARKINGS ON -LDET7-.
  - SHIFT -L- (US 17) TRAFFIC ON TO -LDET7- IN THE TRAFFIC PATTERN SHOWN ON TMP-43 & 44.
  - CONSTRUCT STAGE 2 OF THE PROPOSED CULVERT AS SHOWN ON TMP-44.
- B)
  - SHIFT -LDET7- (US 17) TRAFFIC ON TO -LLT- AND -LRT- IN THE TRAFFIC PATTERN SHOWN ON TMP-51 THRU TMP-53.
- C)
  - PLACE TEMPORARY PAVEMENT MARKINGS ON PROPOSED -L- AND -DET1REV-
  - SHIFT -L- TRAFFIC ON TO THE PATTERN SHOWN ON SHEETS TMP-41, 42. ACTIVATE TEMPORARY SIGNAL AT THE -L- / VISTA DRIVE / -DET1REV- INTERSECTION. INSTALL PCB AND TEMPORARY CRASH CUSHION FROM -Y32- STA. 11+00± TO -Y32- STA. 19+74±.
  - REMOVE -DET2REV- AS SHOWN ON TMP-42.
  - WEDGE -Y19-/Y41- INTERSECTION AND SURROUNDING AREA AS NEEDED TO MAINTAIN TRAFFIC.
  - CONSTRUCT STAGE 2 OF THE PROPOSED CULVERT AS SHOWN ON TMP-42.


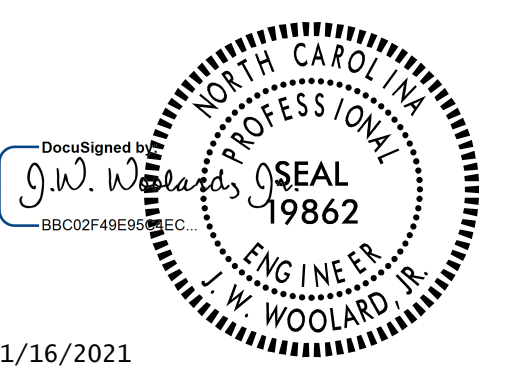
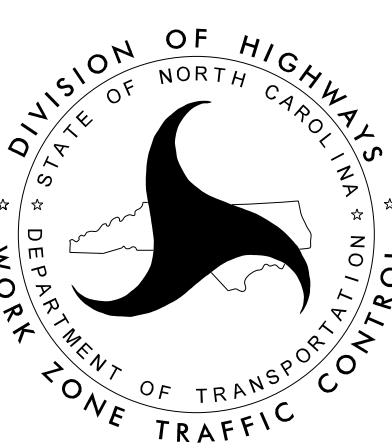
## AREA 5

**STEP 4: (TMP-45 TO TMP-53)**

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02 AS NEEDED, PERFORM THE FOLLOWING:

- INSTALL ALL CROSS-PIPES 36" OR LESS IN HALF SECTIONS USING LANE CLOSURES AS NEEDED BETWEEN THE FOLLOWING HOURS:  
MONDAY - THURSDAY 10:00PM TO 6:00AM  
FRIDAY AT 10:00PM TO MPNDAY AT 6:00AM
- CONSTRUCT OUTSIDE WIDENING INCLUDING CURB AND GUTTER UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE ON THE FOLLOWING (WEDGE EXISTING PAVEMENT AS NECESSARY TO MAINTAIN TRAFFIC):
  - \* -L1\_NORTH- (LEFT) FROM STA. 870+98± TO STA. 874+60±
  - \* -L1\_NORTH- (RIGHT) FROM STA. 872+05± TO STA. 874+60±
  - \* INSTALL TEMPORARY SIGNAL AT -L1-/L2-/Y26- INTERSECTION
  - \* -L- (LEFT) FROM STA. 264+00± TO STA. 307+44±
  - \* -L- (RIGHT) FROM STA. 264+00± TO STA. 307+44±
  - \* -LLT- FROM STA. 307+44± TO STA. 332+55±
  - \* -LRT- FROM STA. 307+44± TO STA. 332+55±
- REPLACE EXISTING MARKINGS AT THE END OF EACH WORK DAY AS NEEDED.
- BEGIN CONSTRUCTION OF PROPOSED -Y19- (VISTA LN) STA. 47+50± TO STA. 59+45± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TMP-47,48)
- BEGIN CONSTRUCTION OF -DET3- FROM STA. 11+03± TO STA. 13+45±.
- CONSTRUCT PROPOSED -Y32- STA. 10+00± TO STA. 47+12± INCLUDING PROPOSED STRUCTURE OVER -L1\_NORTHERN-, AND TEMPORARY SHORING #5 AND #6 UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.(SEE TMP-45 TO TMP-47)
- CONSTRUCT -Y32- KEYED-IN ISLAND FROM -Y32- STA. 17+10± TO -Y32LPA2- STA. 14+33±. (SEE TMP-45 TO TMP-47)
- BEGIN CONSTRUCTION OF PROPOSED -Y32RPB1- STA. 5+00± TO STA. 20+62± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- CONSTRUCT PROPOSED -Y32RPB1- STA. 20+62± TO STA. 22+89± (NOT SHOWN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- BEGIN PROPOSED -Y40- STA. 238+27± TO STA. 249+60± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. INSTALL TEMPORARY SHORING #7 AS SHOWN ON TMP-45 & 46.

11/16/2021 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_03B\_PHASING.dgn angood

 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672</p>	 <p>11/16/2021 <b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>		<p style="text-align: center; font-weight: bold;">PHASING</p>
--	--	---	---

# PHASING

## AREA 5

PHASE 2: (TMP-54 TO TMP-66)

USING TEMPORARY LANE CLOSURES PER ROADWAY STANDARD DRAWING 1101.02, PERFORM THE FOLLOWING:

STEP 1: (TMP-54 TO TMP-57)

PLACE TEMPORARY MARKINGS ON -Y32-, SHIFT SB -L- ONTO -Y32-. (SEE TMP-54 TO TMP-57).

PLACE TEMPORARY MARKINGS ON -L-. SHIFT NB -L- ON TO THE PATTERN SHOWN ON TMP-54 TO TMP-57 AND PERFORM THE FOLLOWING:

- DEACTIVATE, DISMANTLE AND REMOVE EXISTING TRAFFIC SIGNAL AT TRANSFER STATION RD.
- CONSTRUCT -Y19- FROM STA. 24+50± TO STA. 47+50± INCLUDING SINGLE FACE BARRIER THAT SEPARATES -Y19- AND -L1\_NORTHERN-, EXCEPT BETWEEN -Y19- STA.46+50±, USING WEDGING AND INCIDENTAL STONE TO MAINTAIN ACCESS TO -Y44-. (SEE TMP-54,55,56)
- CONSTRUCT -L-, AND -Y40- AS SHOWN ON TMP-54 INCLUDING TEMPORARY SHORING #8.
- CONSTRUCT -Y43- UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (SEE TMP-55)
- COMPLETE CONSTRUCTION OF PROPOSED -Y32- KEYED-IN ISLANDS AND MEDIAN CURB & GUTTER FROM STA. 12+50± TO STA. 17+10±
- COMPLETE CONSTRUCTION OF -DET3- AND -Y19- FROM STA. 47+50 TO STA. 59+71.

NOTE: COMPLETE AREA 5, PHASE 2, STEP 1A FROM FRIDAY AT 6:00 PM TO MONDAY AT 6:00 AM [60 CONSECUTIVE HOURS] (SEE SPECIAL PROVISIONS)

STEP 1A: (TMP-56)

USING FLAGGERS AND ROADWAY STANDARD DRAWING 1101.02, SHEET 1 OF 14, COMPLETE THE TIE-IN OF -Y44- (LEEWARD LN) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.

PLACE TEMPORARY PAVEMENT MARKINGS AND SHIFT US 17 ON TO THE TRAFFIC PATTERN SHOWN ON TMP-58 TO TMP-66.

STEP 2: (TMP-58 TO TMP-66)

USING LANE CLOSURES AND ROADWAY STANDARD DRAWING 1101.02 AS NEEDED COMPLETE THE FOLLOWING:

- CONSTRUCT -L1\_NORTHERN- (LEFT) UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-59,60.
- WEDGE -L- AND -Y40- UNDER TRAFFIC UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE FROM -L- STA. 228+50± TO -Y40- STA. 233+40± AS SHOWN ON TMP-58. WEDGE ALONG -DET1REV- AS NEEDED TO MAINTAIN TRAFFIC.
- CONSTRUCT THE MEDIAN OF -L- AS SHOWN ON TMP-60 TO TMP-66. COMPLETE CONSTRUCTION OF PROPOSED SIGNALS.
- COMPLETE CONSTRUCTION OF -Y40- INCLUDING THE MOMENT SLAB, UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE AS SHOWN ON TMP-59,60.
- CONSTRUCT -L- AS SHOWN ON TMP-58.
- COMPLETE CONSTRUCTION OF PROPOSED -Y32LPA2- STA. 7+16± TO STA. 14+33± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE. (TMP-59,60)
- COMPLETE CONSTRUCTION OF PROPOSED -Y32RPB1- STA. 5+00± (NOT SHOWN) TO STA. 20+62± UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE.
- COMPLETE CONSTRUCTION OF PROPOSED DMS-3 AND DMS-4 BEGUN IN PHASE I, STEP 2.

PHASE 3: (TMP-67 TO TMP-70)

STEP 1: (TMP-67 TO TMP-70)

USING LANE CLOSURES AND ROADWAY STANDARD DRAWING 1101.02 PERFORM THE FOLLOWING:

- PLACE TEMPORARY MARKINGS IN THE PATTERN SHOWN ON TMP-61 TO TMP-64 AND TEMPORARY MARKINGS IN THE FINAL PATTERN FOR THE REMAINDER OF THE PROJECT. SHIFT TRAFFIC TO THIS PATTERN. ACTIVATE PROPOSED SIGNALS.


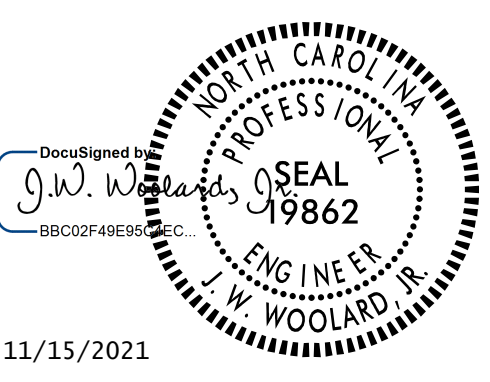
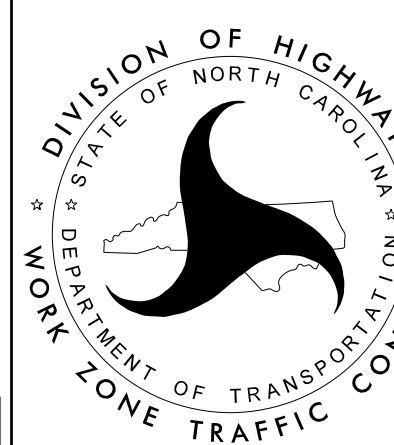
- REMOVE -L- (US-17) AND -DET1REV- AS SHOWN ON SHEETS TMP-67, 68, 69.
- REMOVE -DET3- AS SHOWN ON TMP-70

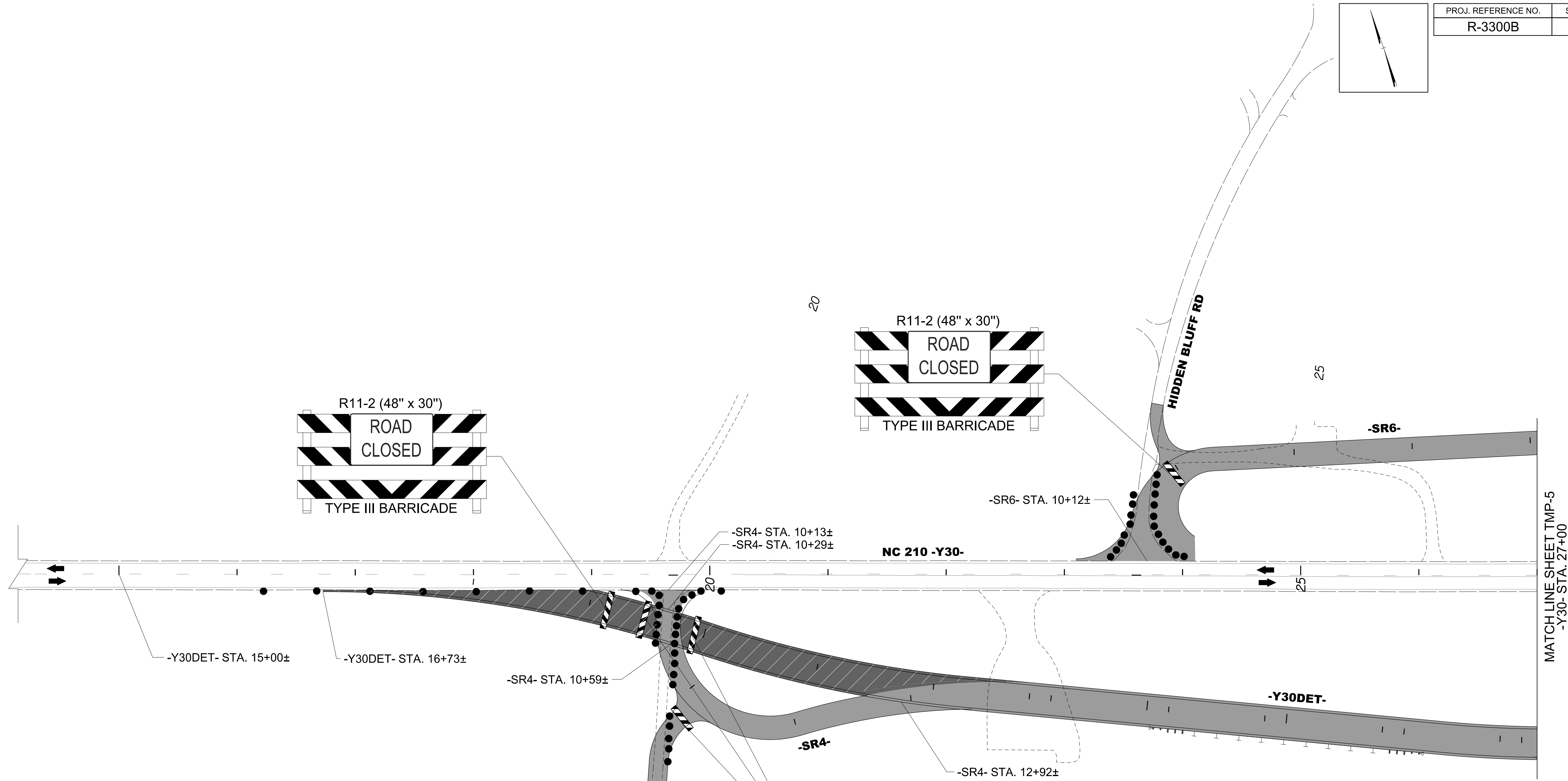
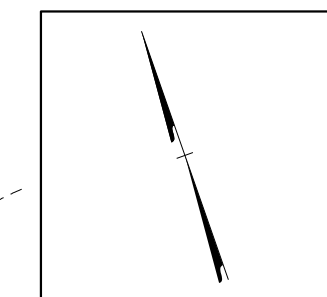
STEP 2: (NOT SHOWN)

USING LANE CLOSURES AND ROADWAY STANDARD DRAWING 1101.02 PERFORM THE FOLLOWING:

- PLACE THE FINAL LAYER OF SURFACE COURSE AND FINAL PAVEMENT MARKINGS (SEE PAVEMENT MARKING PLAN) ON -L-, -L1\_NORTHERN-, -L1-, -L2-, AND ALL -Y- LINES, RAMPS AND LOOPS.
- REMOVE ALL TRAFFIC CONTROL DEVICES AND PLACE TRAFFIC IN THE FINAL PATTERN.

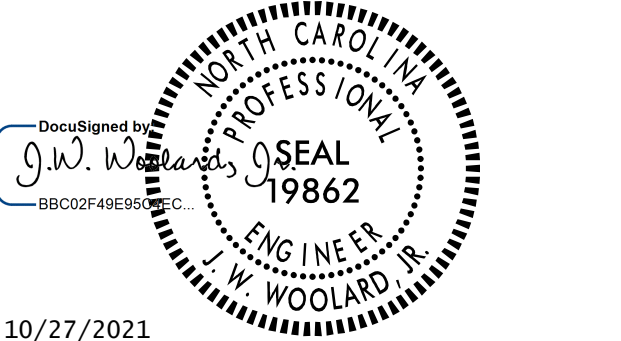
11/15/2021  
L:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\TMP\_03C\_PHASING.dgn  
angood

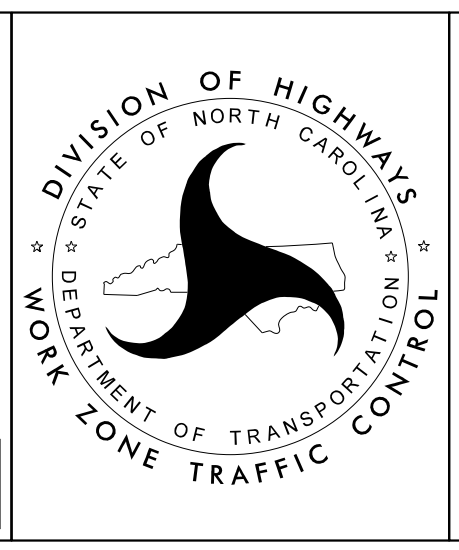
 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672</p>	 <p>11/15/2021</p> <p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>		<p style="text-align: center; font-size: 2em;">PHASING</p>
--	---	---	--



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_04\_AREA 2\_PHASE 1.dgn  
 angood

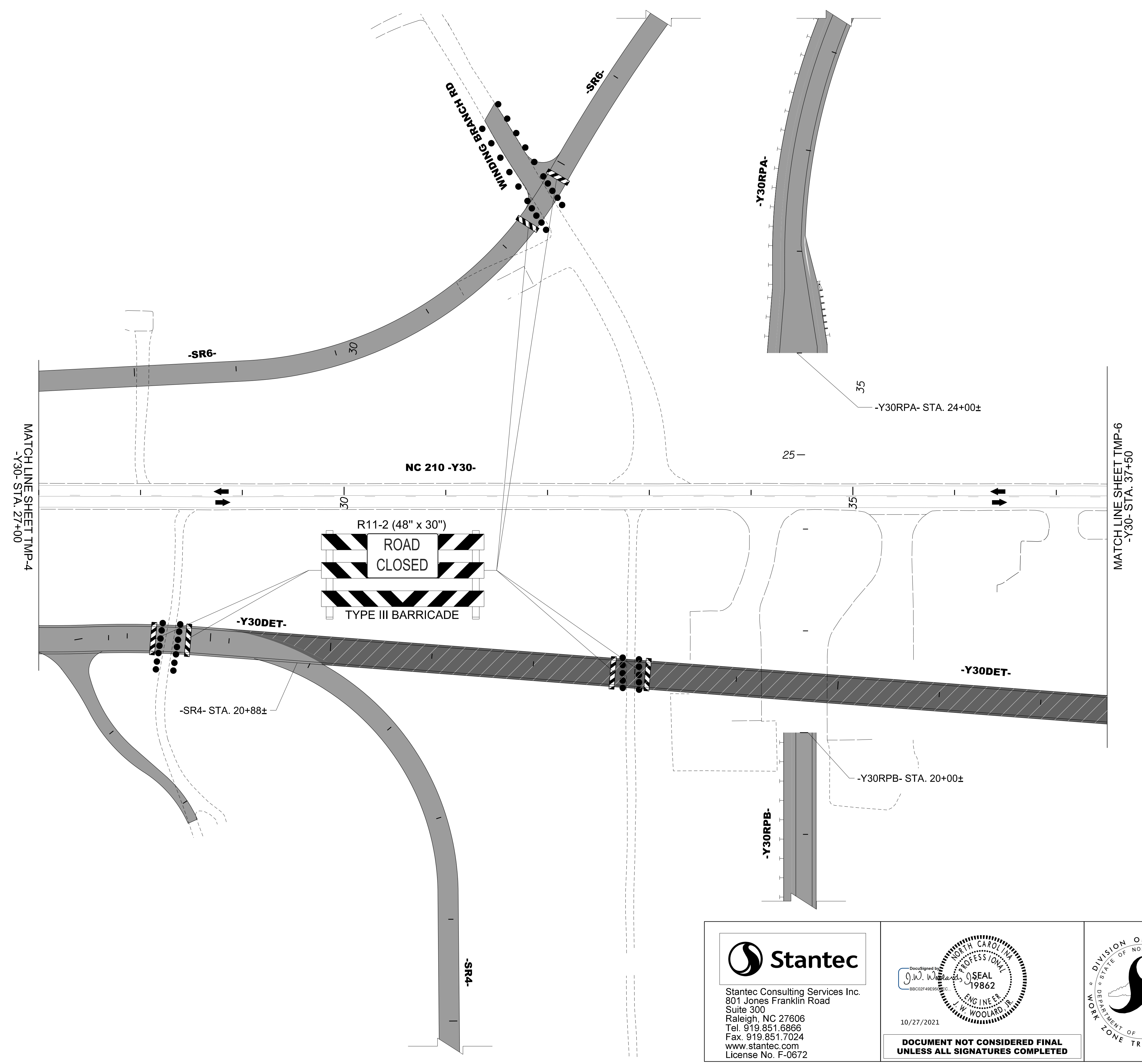
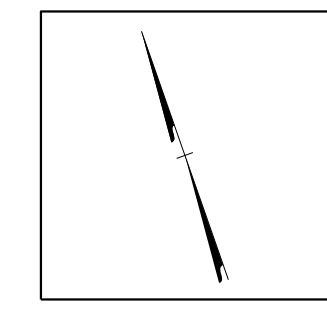
  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



**NC-210 -Y30-  
 AREA 2  
 PHASE I**

PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-5

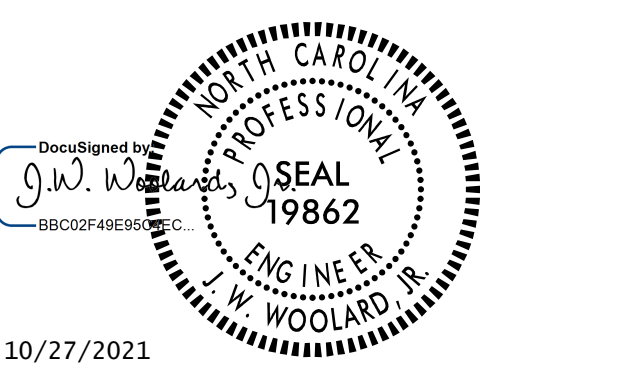


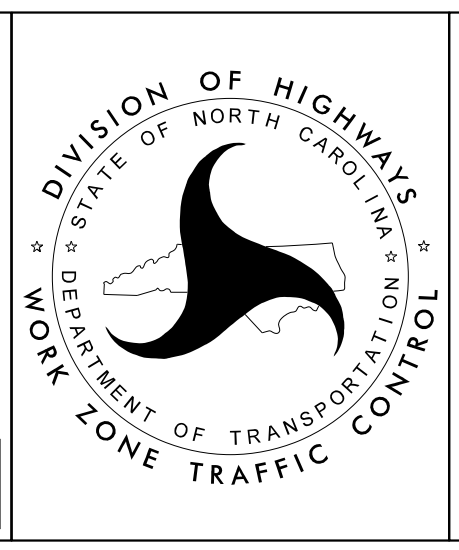
MATCH LINE SHEET TMP-4  
-Y30- STA. 27+00

MATCH LINE SHEET TMP-6  
-Y30- STA. 37+50

9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\TMP\_05\_AREA 2\_PHASE 1.dgn  
 angood

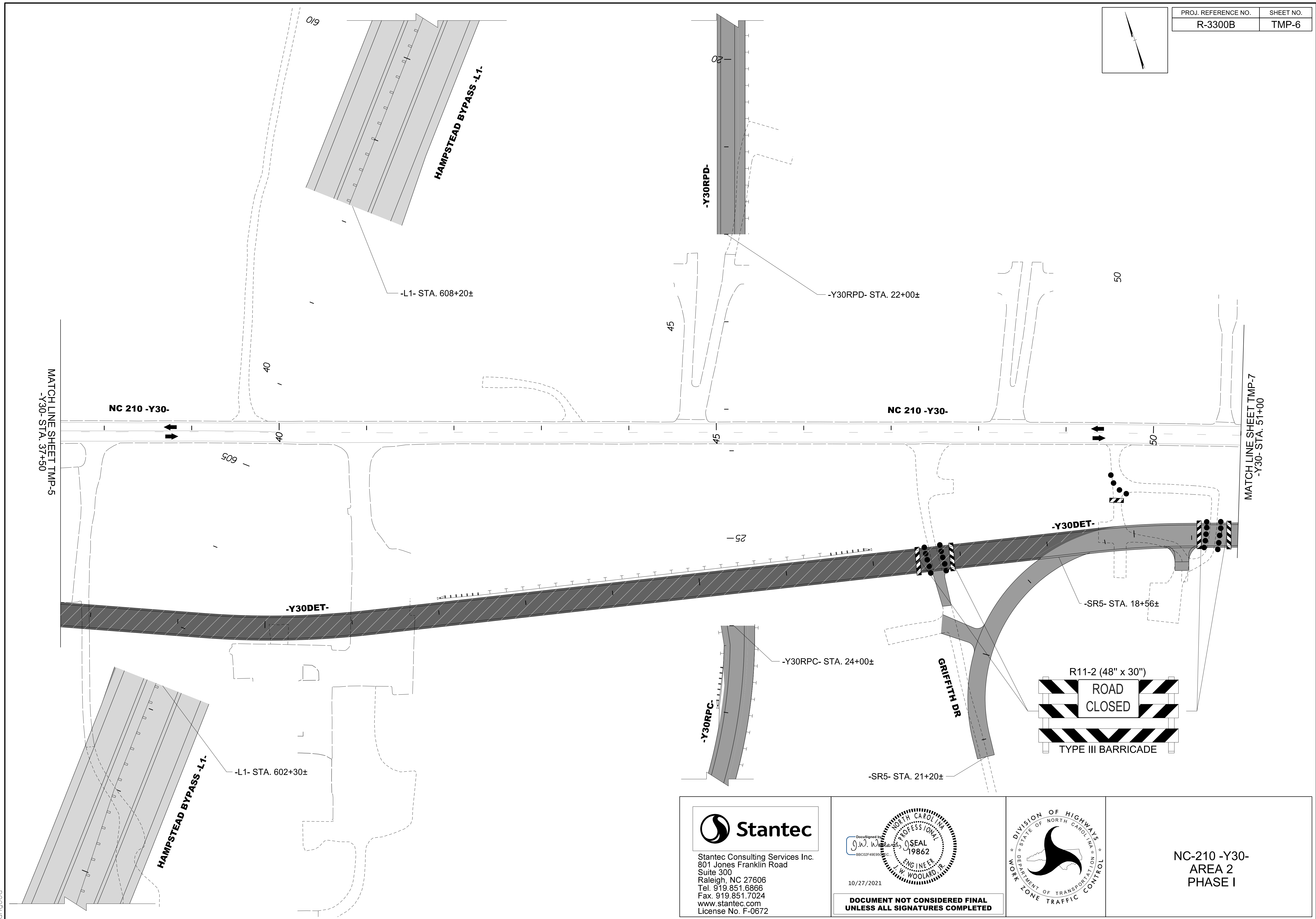
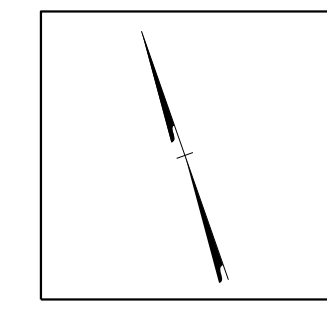
  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



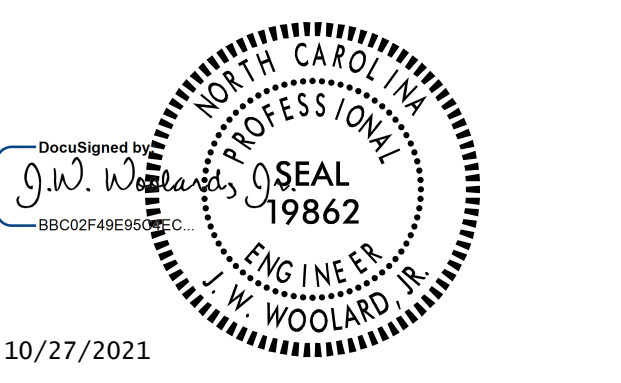
NC-210 -Y30-  
 AREA 2  
 PHASE I

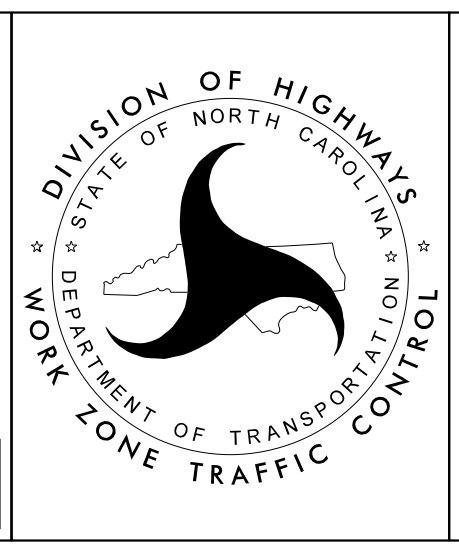
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-6



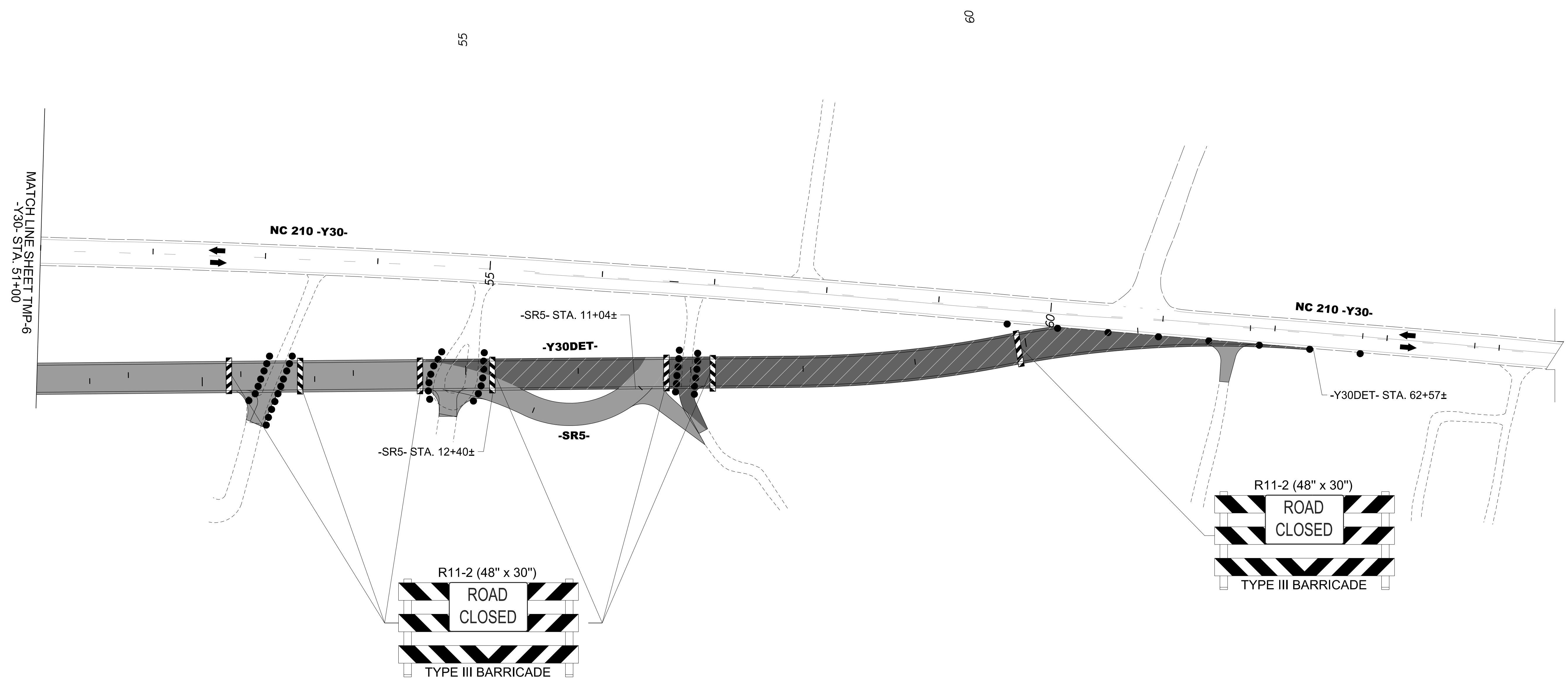
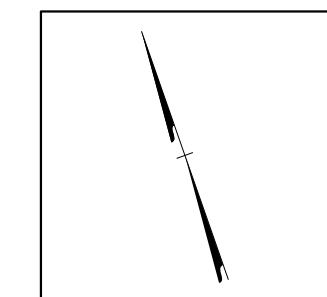
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\_TMP\_06\_AREA 2\_PHASE I.dgn  
 angood

  
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



NC-210 -Y30-  
 AREA 2  
 PHASE I

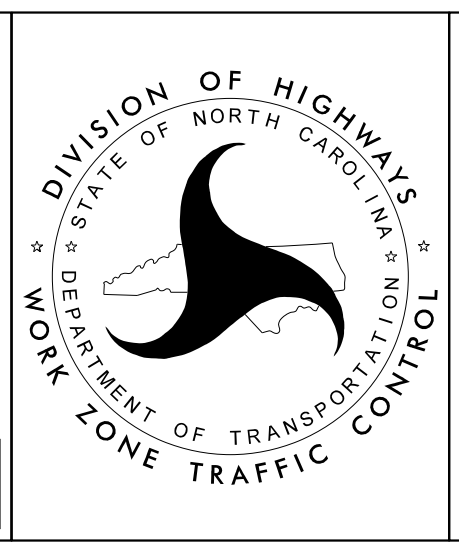


9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_07\_AREA 2\_PHASE 1.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

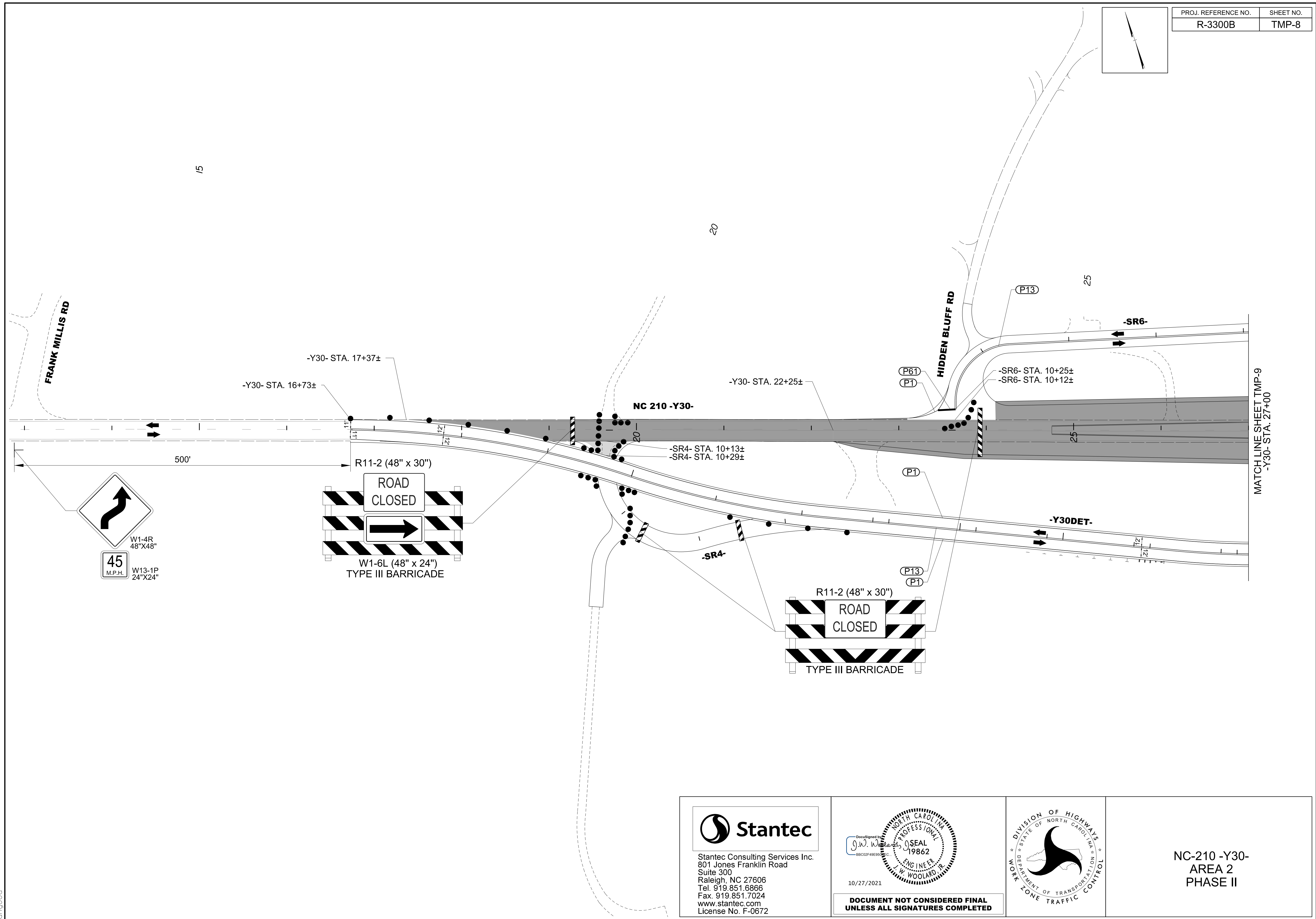
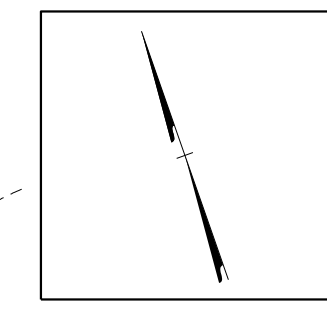
DocuSigned by:  
 J.W. Woolard  
 10/27/2021

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

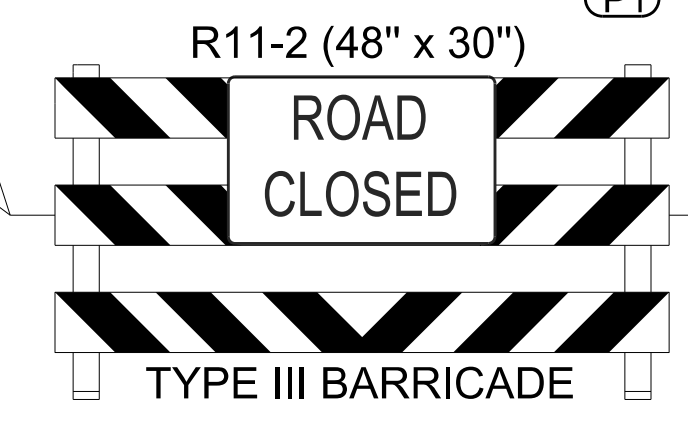
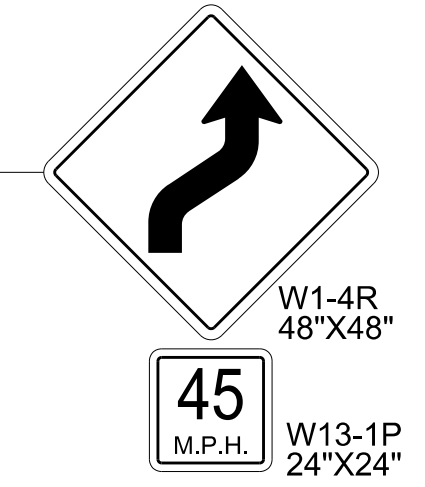


NC-210 -Y30-  
 AREA 2  
 PHASE I

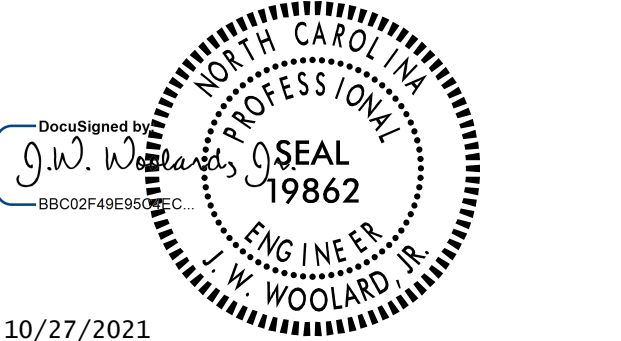


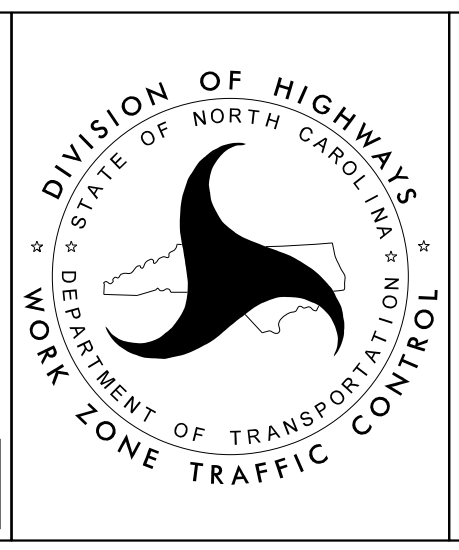


9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\NR-3300B\_TMP\_08\_AREA 2\_PHASE 2.dgn  
 angood



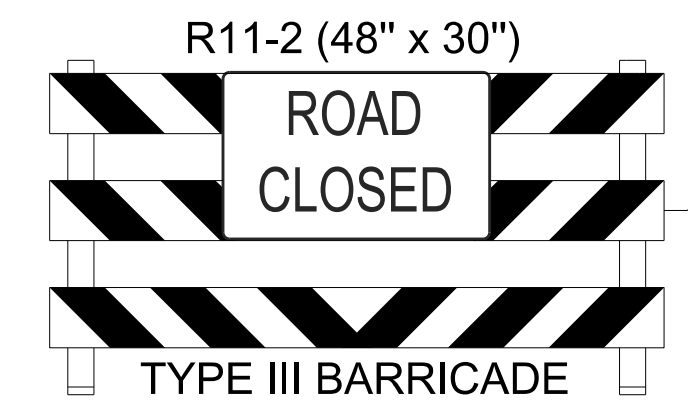
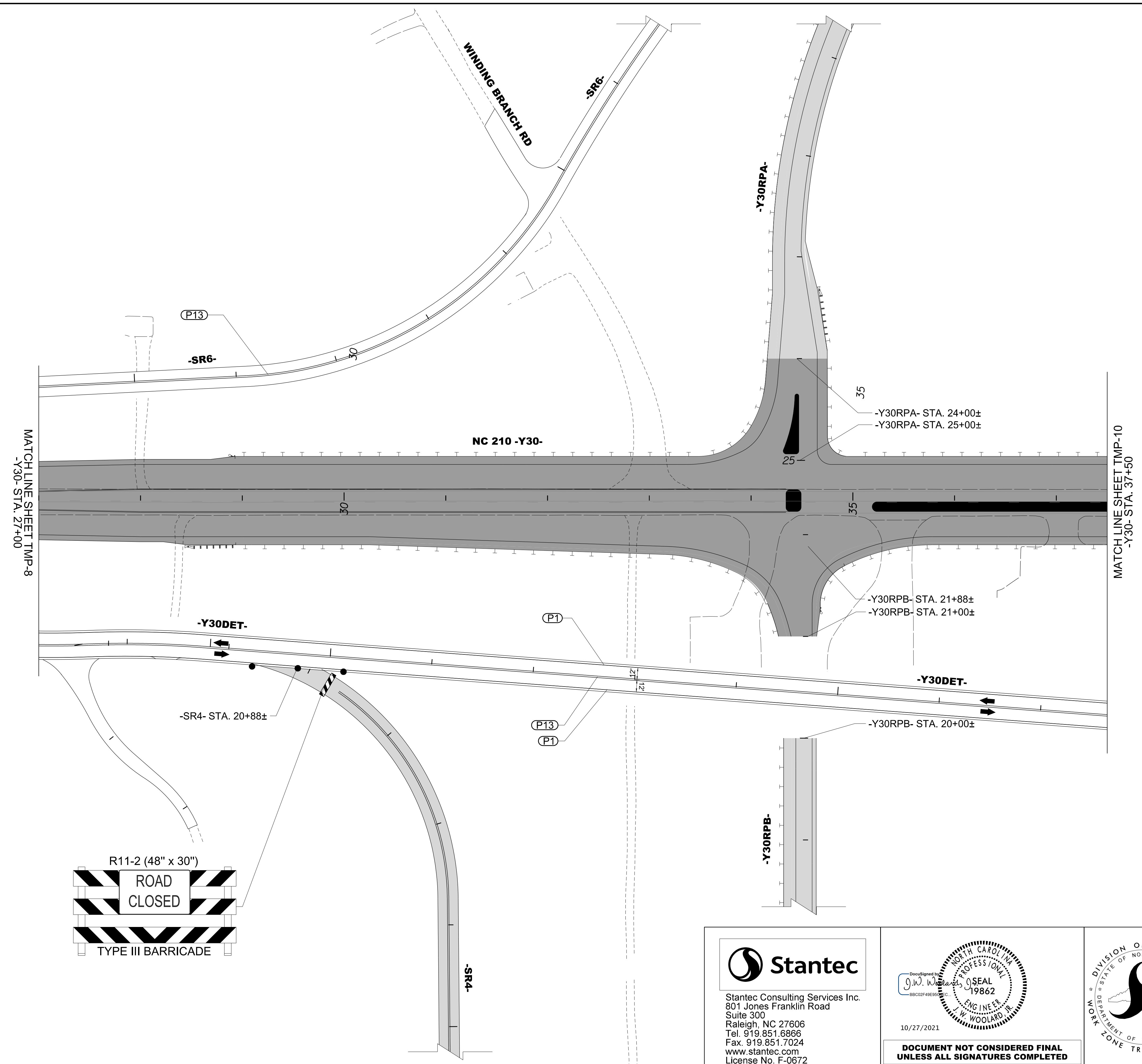
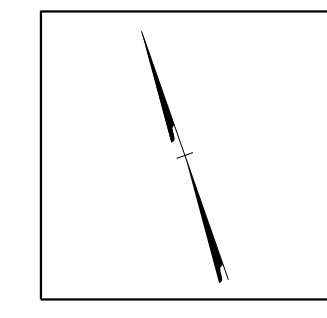

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  

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



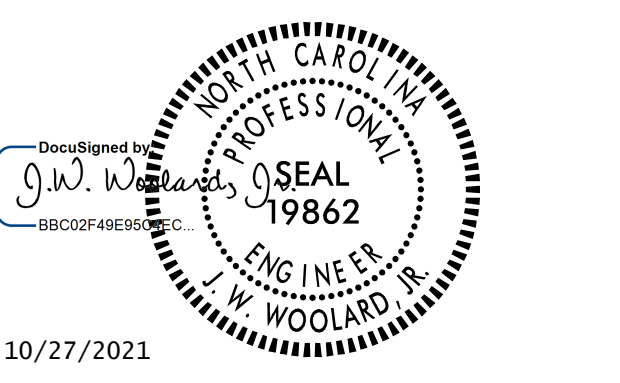
**NC-210 -Y30-  
 AREA 2  
 PHASE II**

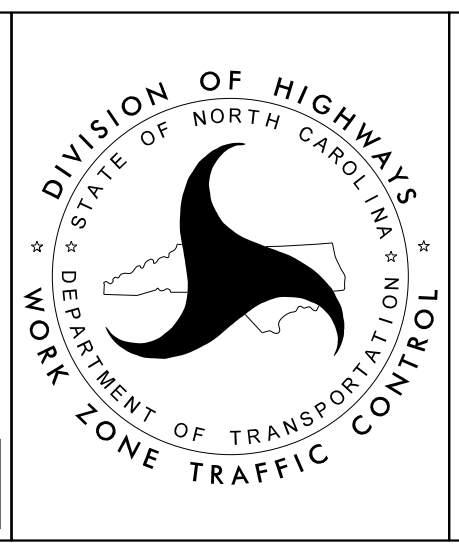
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-9



9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_09\_AREA 2\_PHASE 2.dgn  
 angood

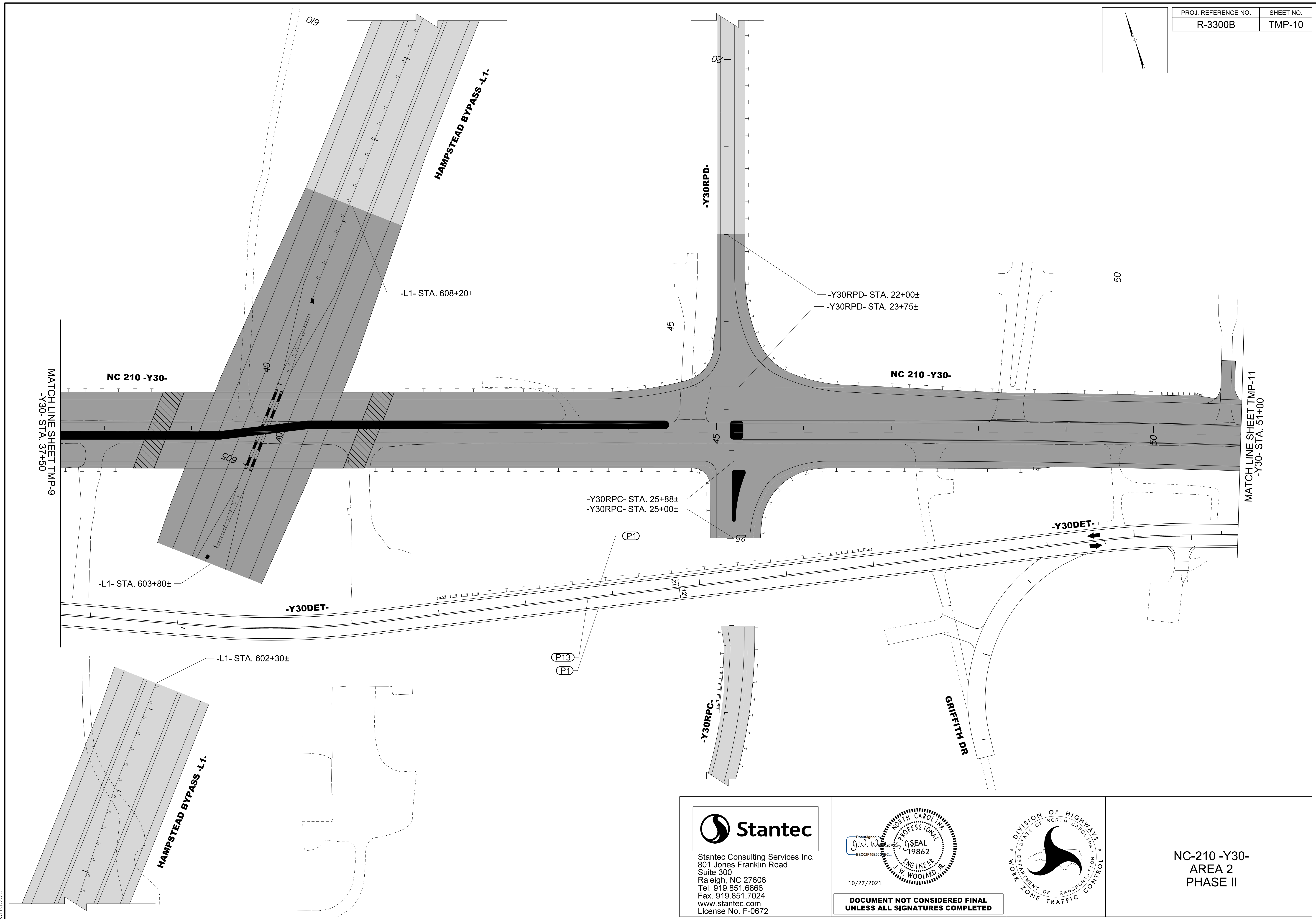
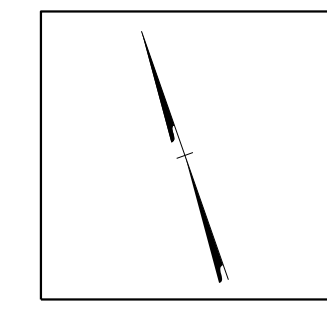
  
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



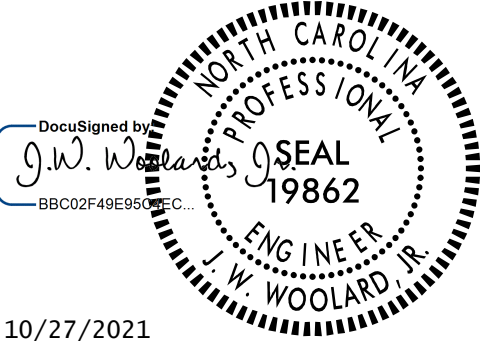
**NC-210 -Y30-  
 AREA 2  
 PHASE II**

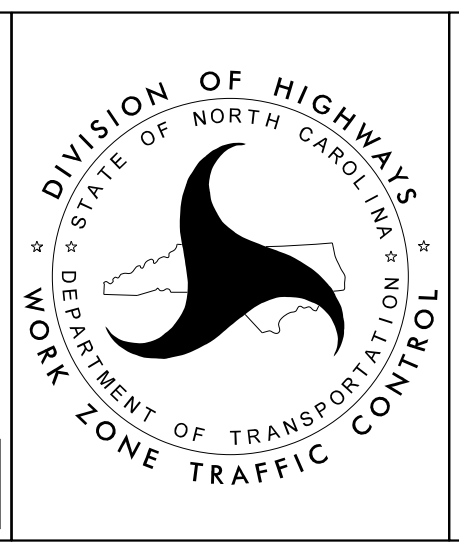
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-10



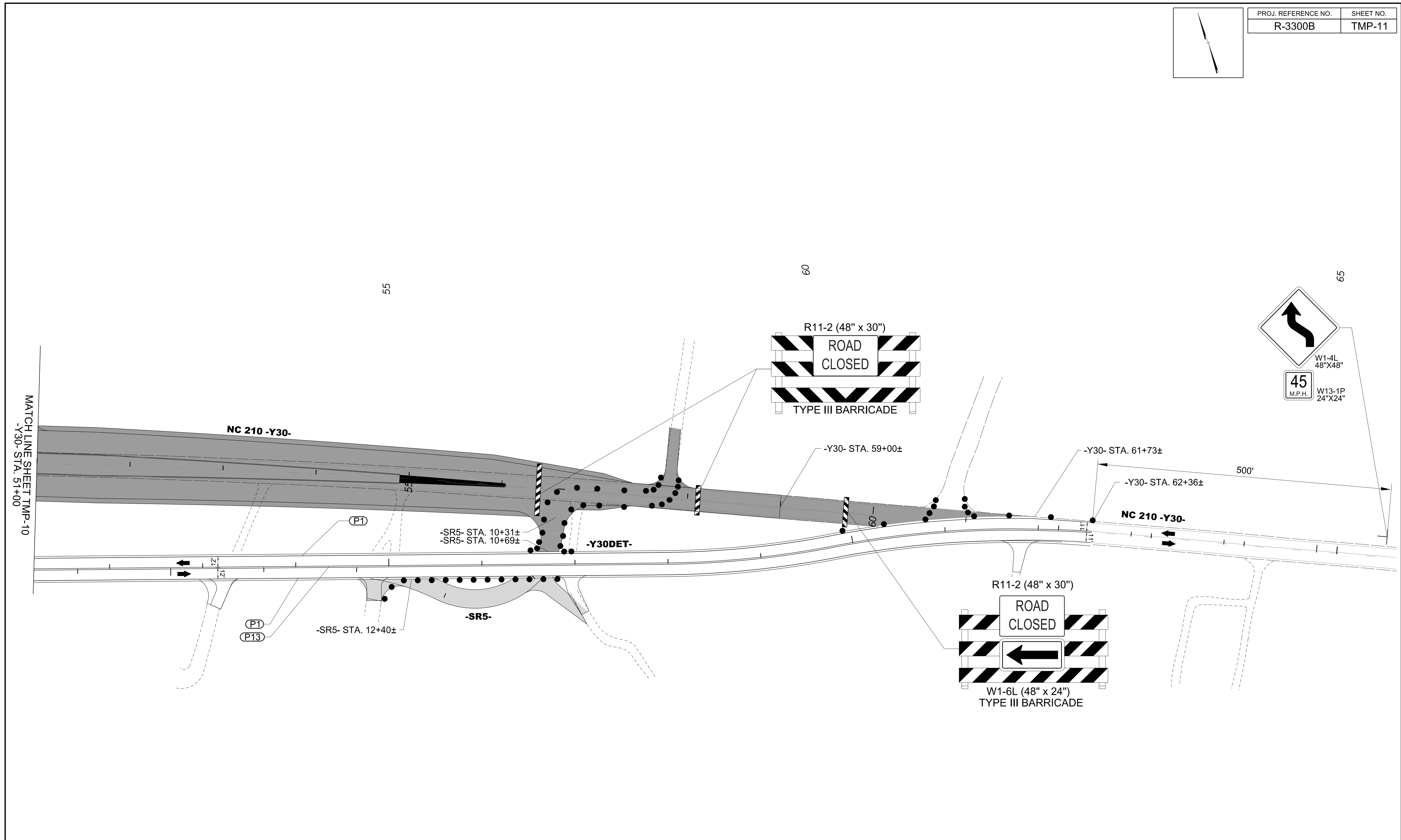
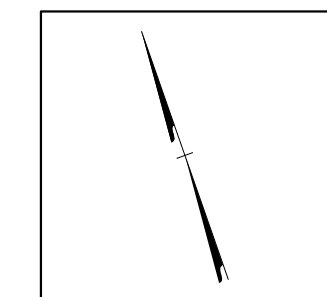
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\TMP\_10\_AREA 2\_PHASE 2.dgn  
 angood

  
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



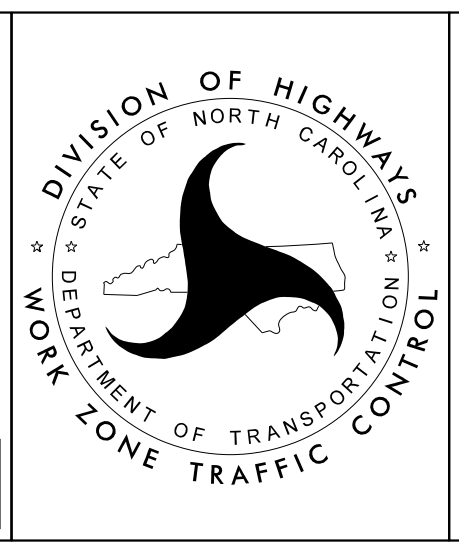
NC-210 -Y30-  
 AREA 2  
 PHASE II



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_11\AREA 2\_PHASE 2.dgn  
 angood

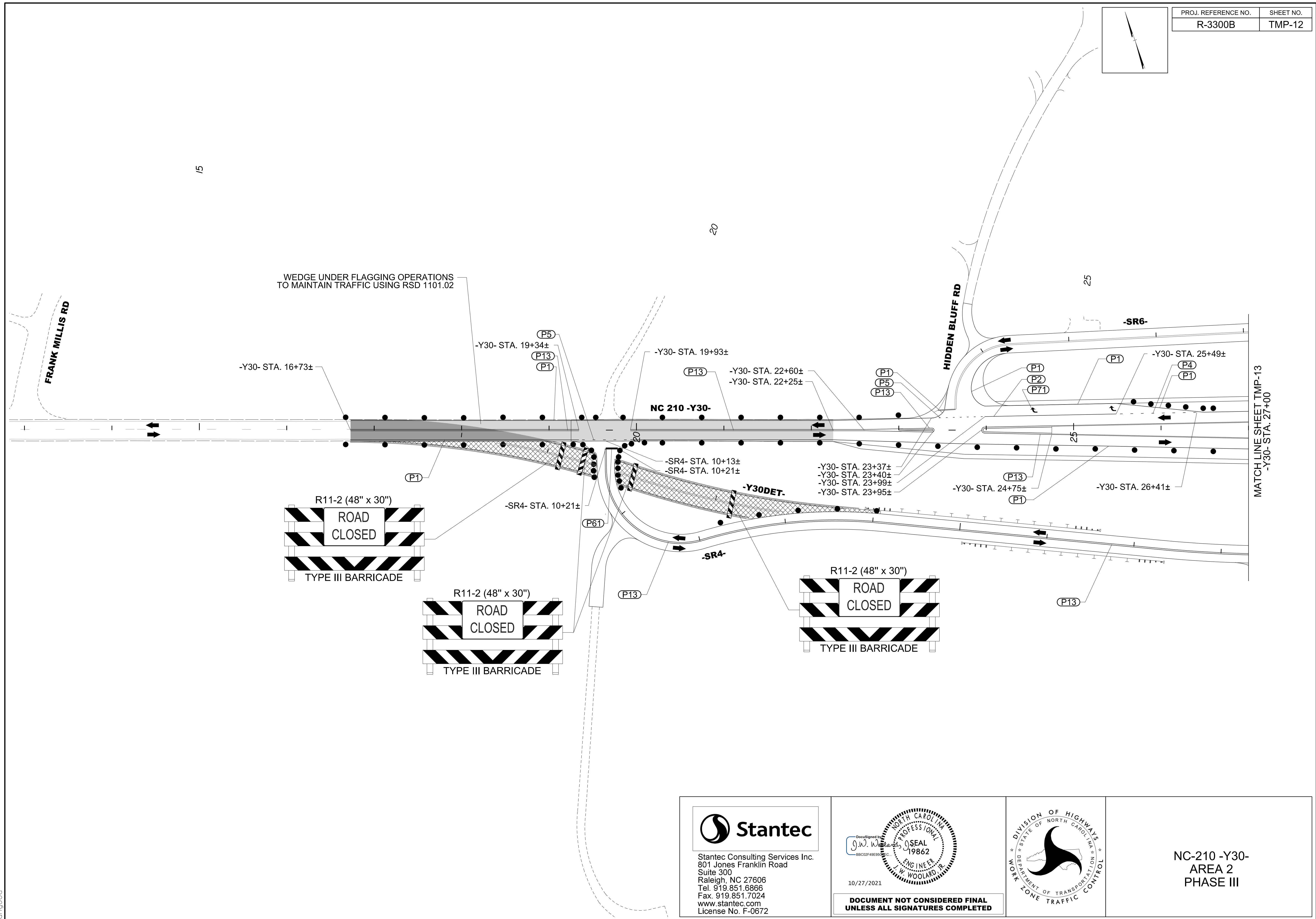
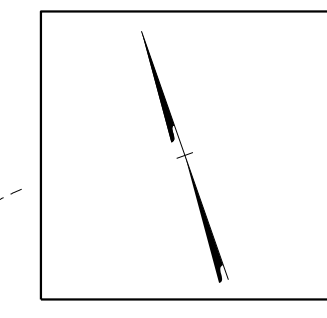
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



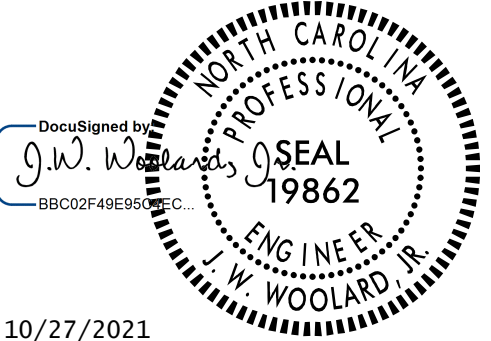
DIVISION OF HIGHWAYS  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

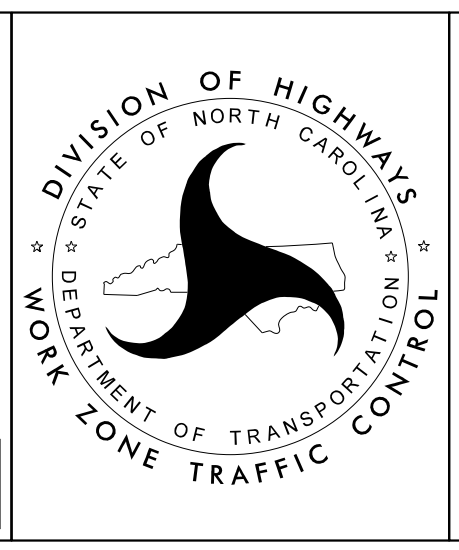
**NC-210 -Y30-  
 AREA 2  
 PHASE II**



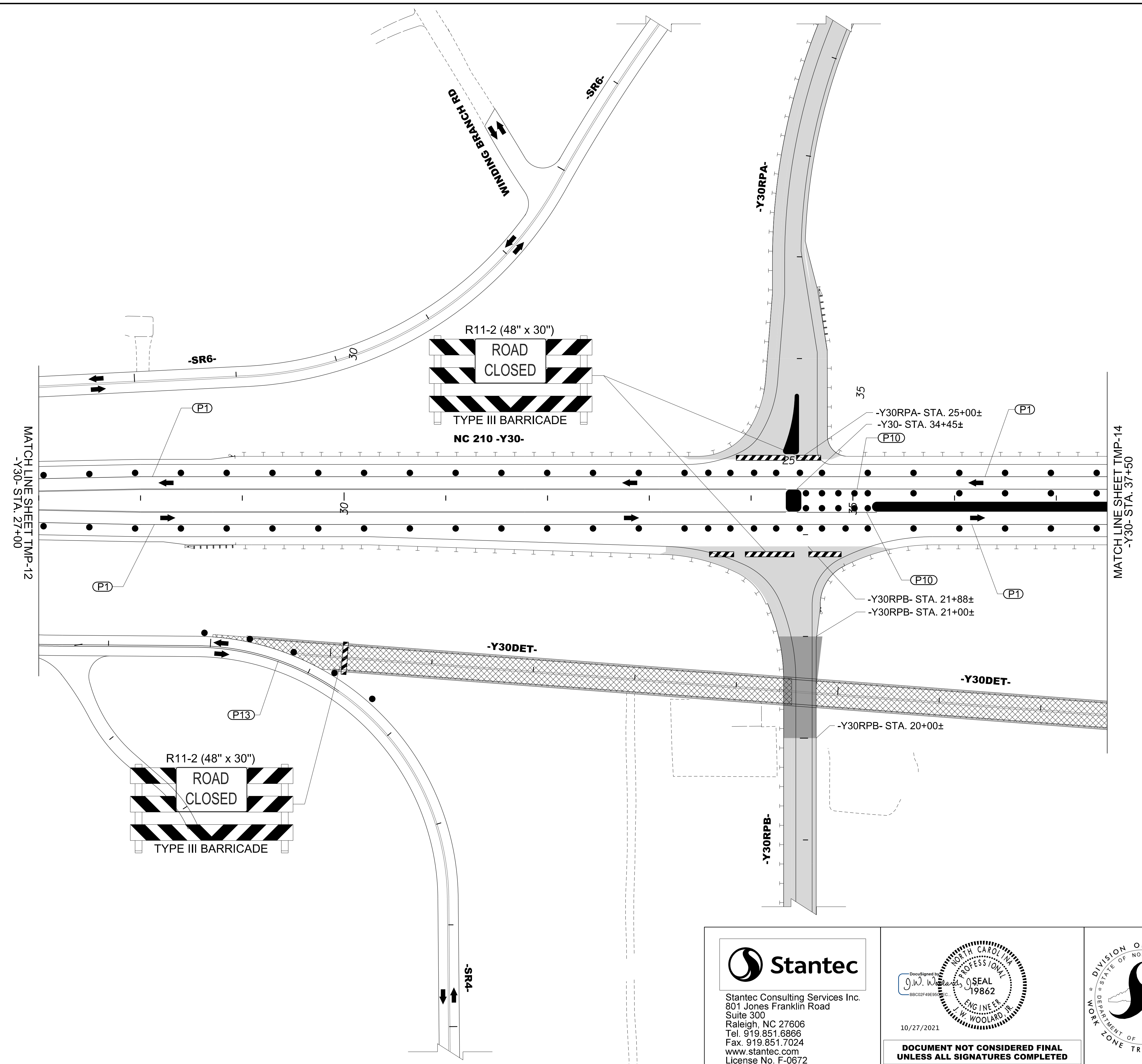
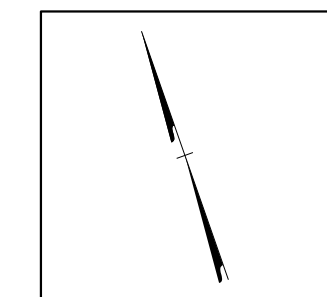
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_12\_AREA 2\_PHASE 3.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



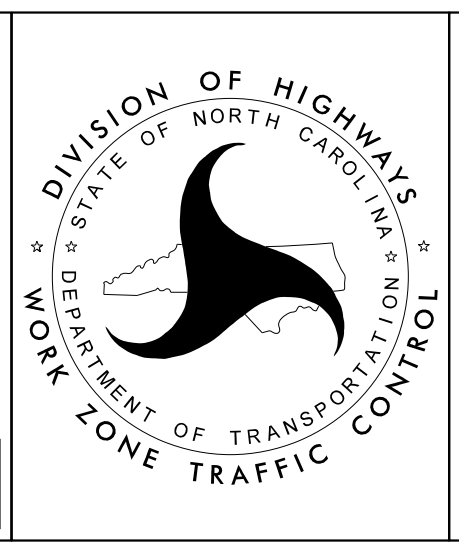
NC-210 -Y30-  
 AREA 2  
 PHASE III



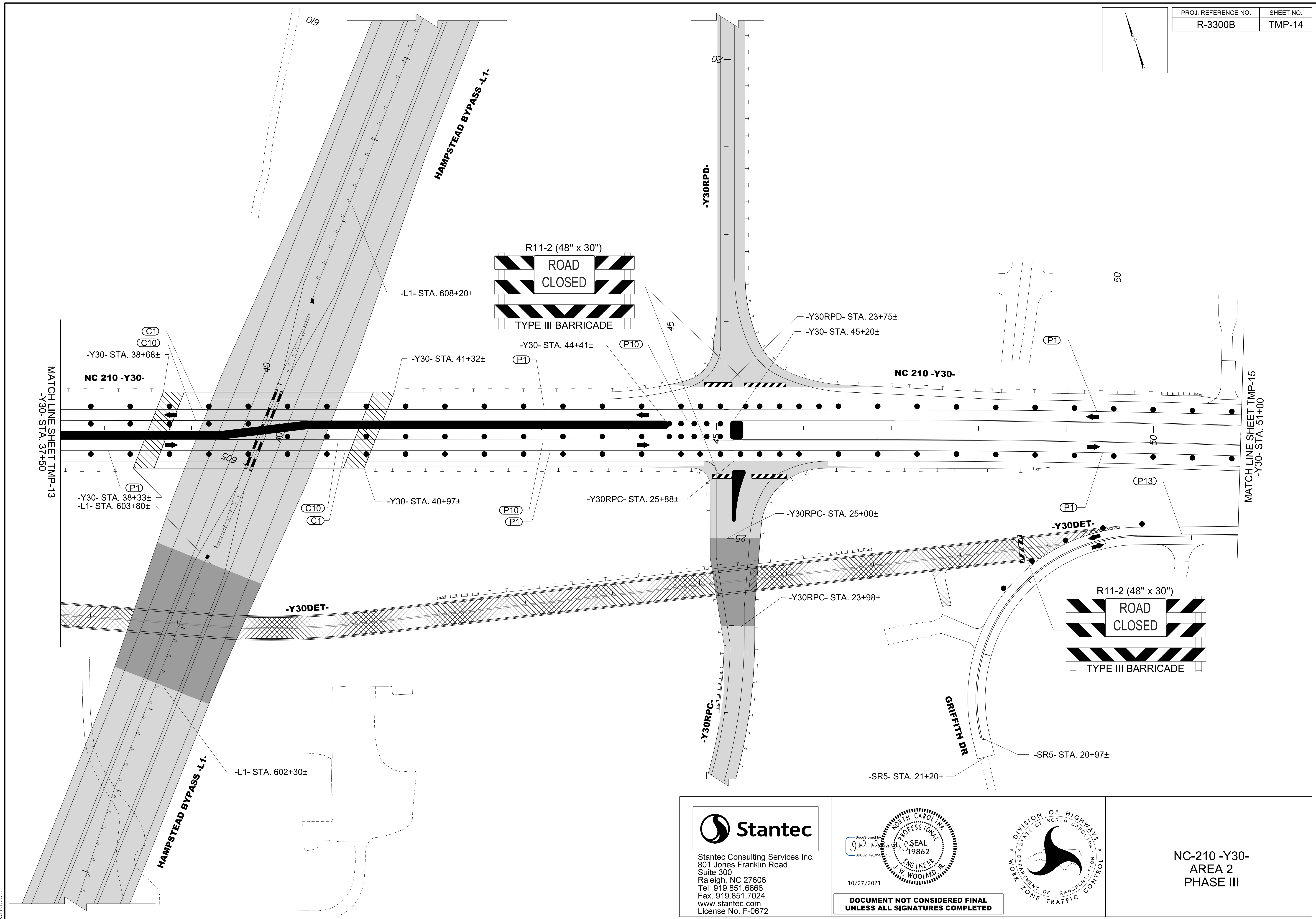
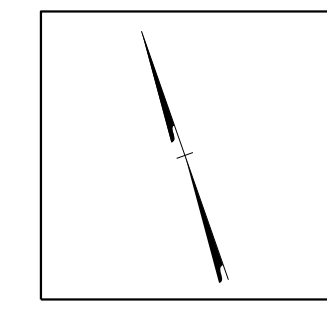
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_13\_AREA 2\_PHASE 3.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**




NC-210 -Y30-  
 AREA 2  
 PHASE III



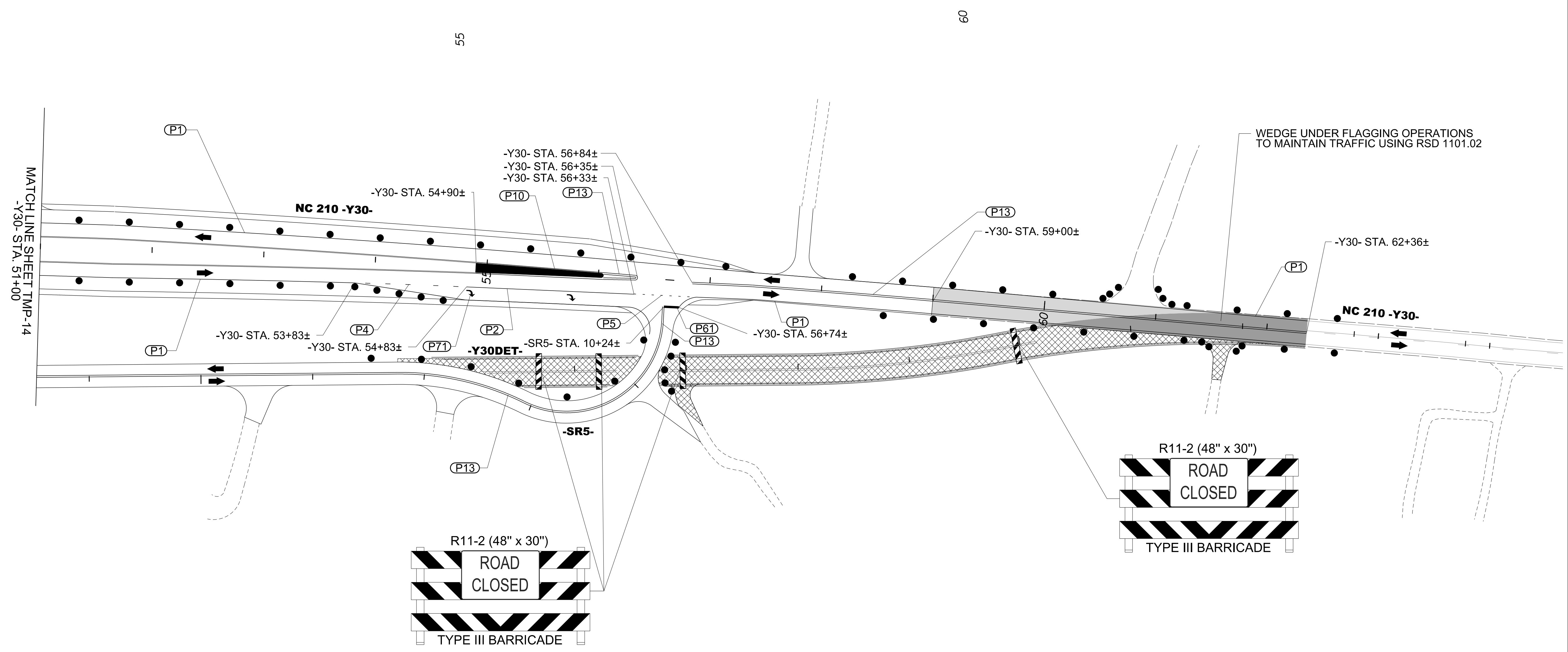
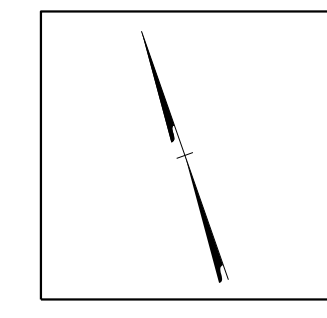
10/27/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\_TMP\_14\_AREA 2\_PHASE 3.dgn  
 angood

  
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

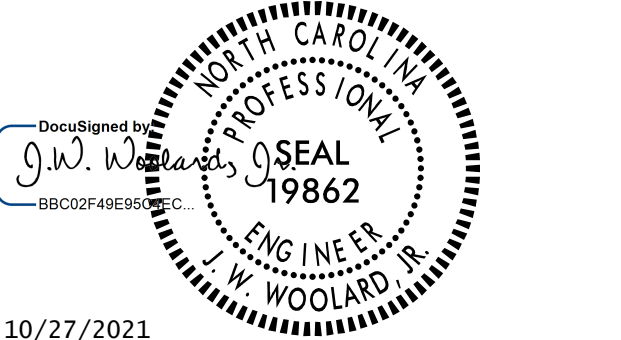
  
 DIVISION OF HIGHWAYS  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

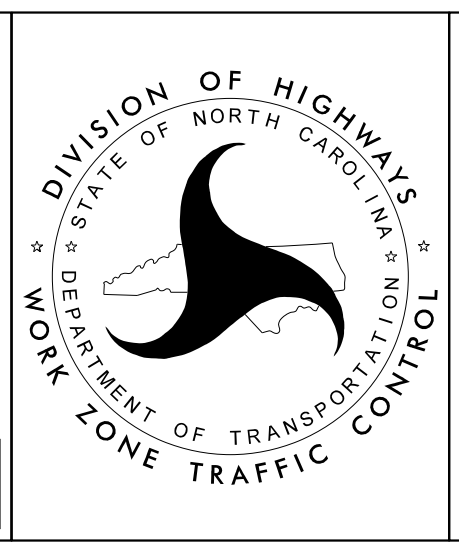
NC-210 -Y30-  
 AREA 2  
 PHASE III



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_15\_AREA 2\_PHASE 3.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

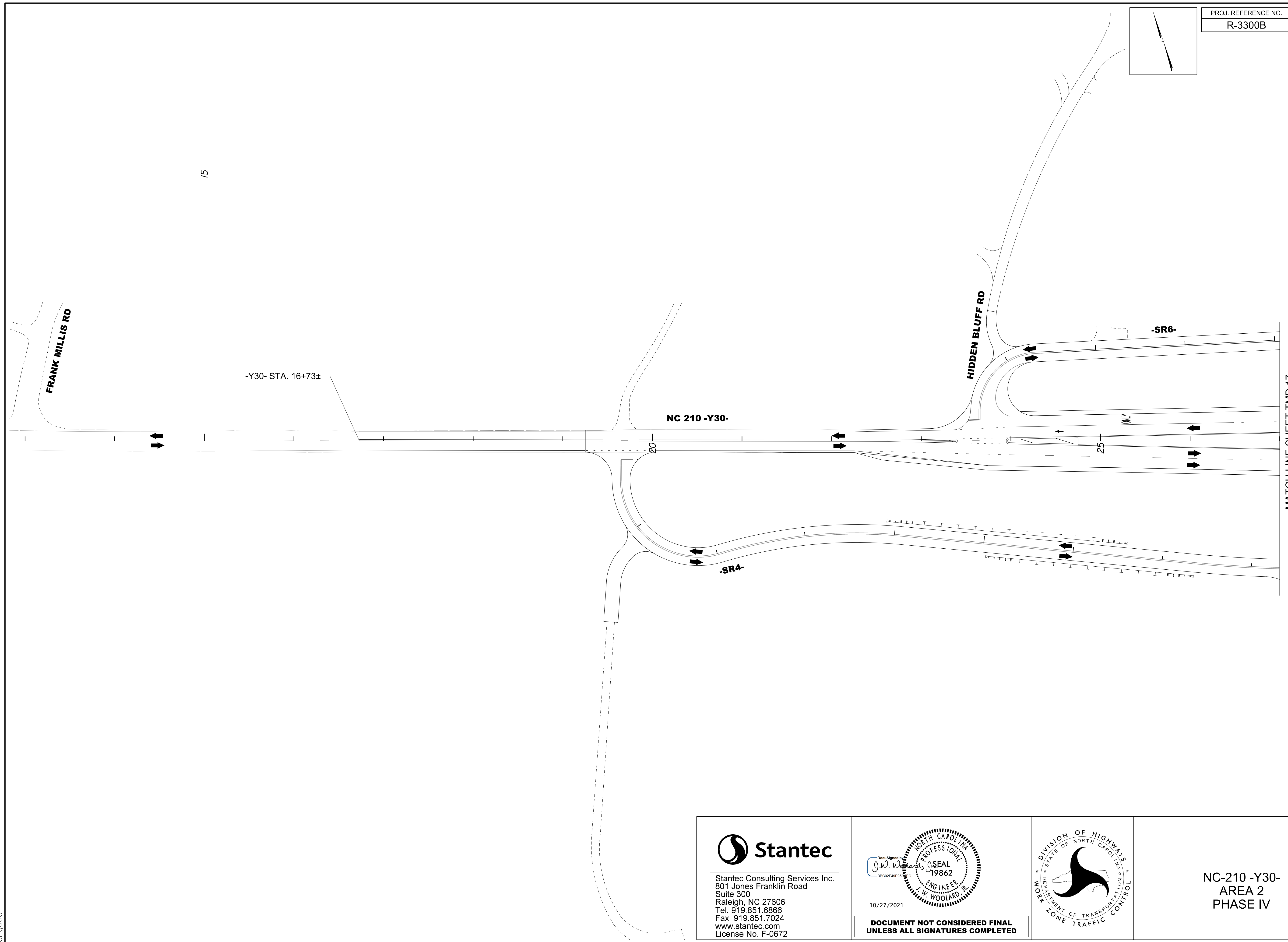
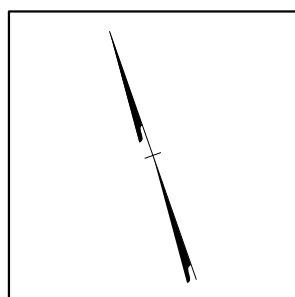
Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



NC-210 -Y30-  
 AREA 2  
 PHASE III

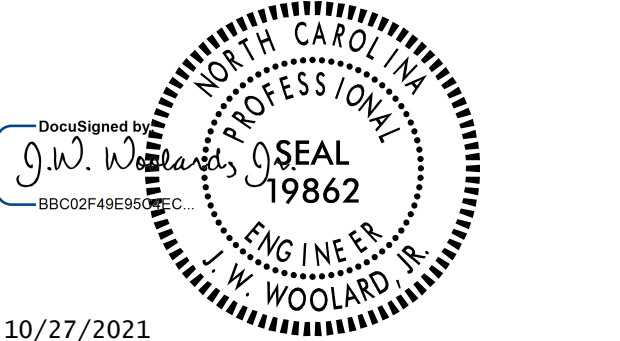


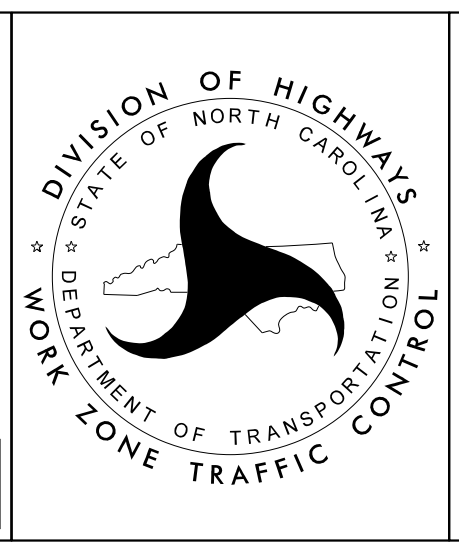
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-16



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_16\_AREA 2\_PHASE 4.dgn  
 angood

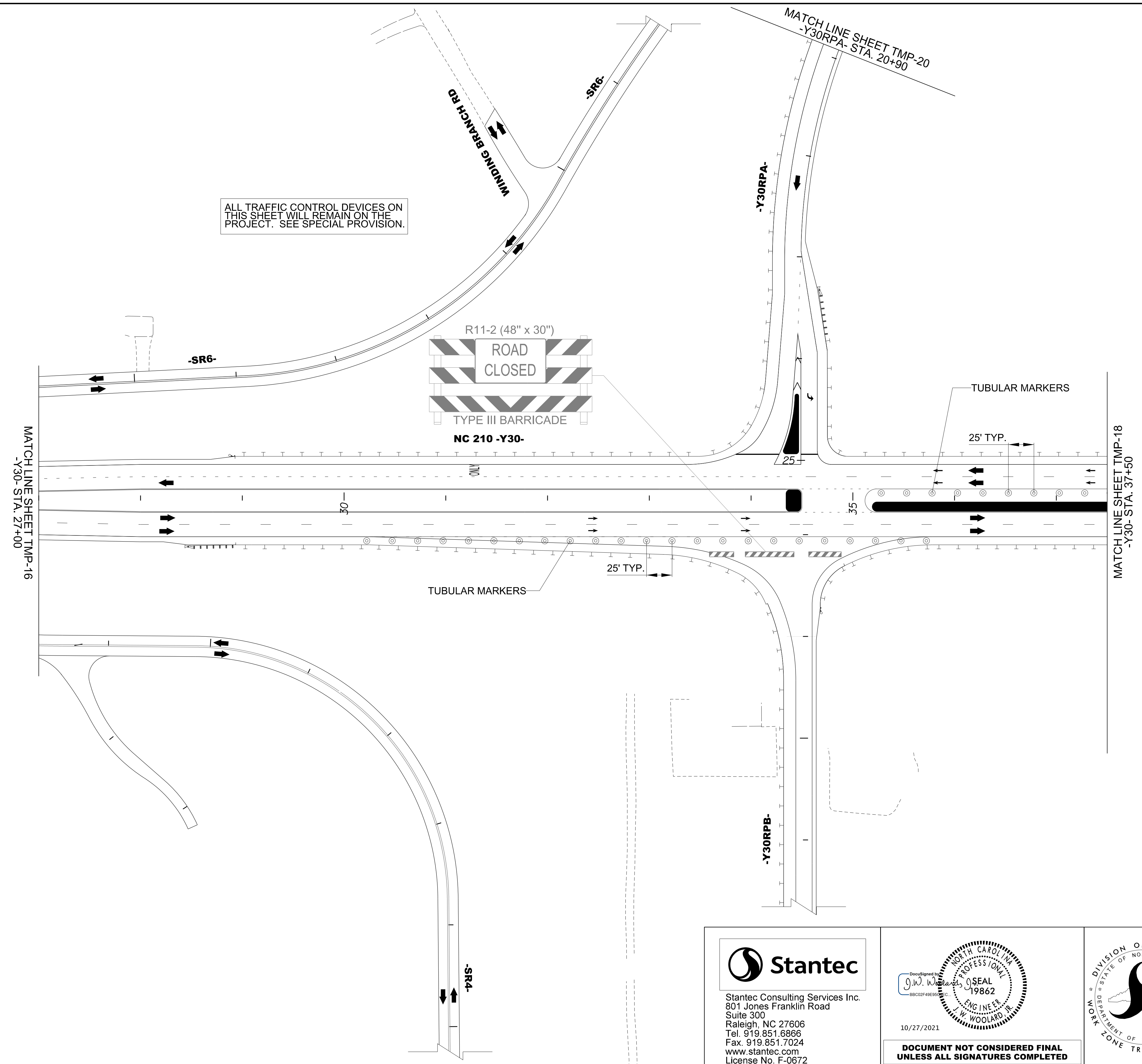
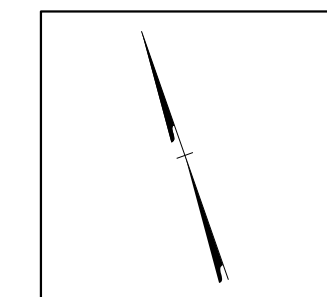
  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



**NC-210 -Y30-  
 AREA 2  
 PHASE IV**

MATCH LINE SHEET TMP-17  
 -Y30- STA. 27+00



ALL TRAFFIC CONTROL DEVICES ON THIS SHEET WILL REMAIN ON THE PROJECT. SEE SPECIAL PROVISION.

R11-2 (48" x 30")  
**ROAD  
 CLOSED**  
 TYPE III BARRICADE  
 NC 210 -Y30-

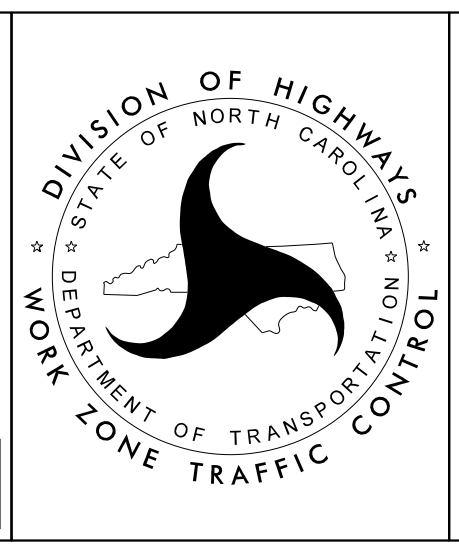
MATCH LINE SHEET TMP-16  
 -Y30- STA. 27+00

MATCH LINE SHEET TMP-18  
 -Y30- STA. 37+50

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

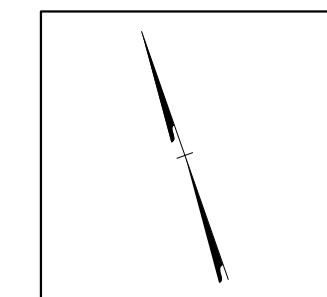
DocuSigned by:  
 J.W. Woolard  
 10/27/2021

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



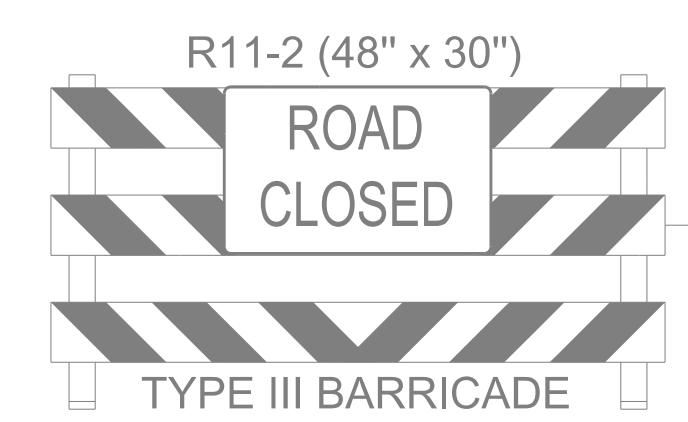
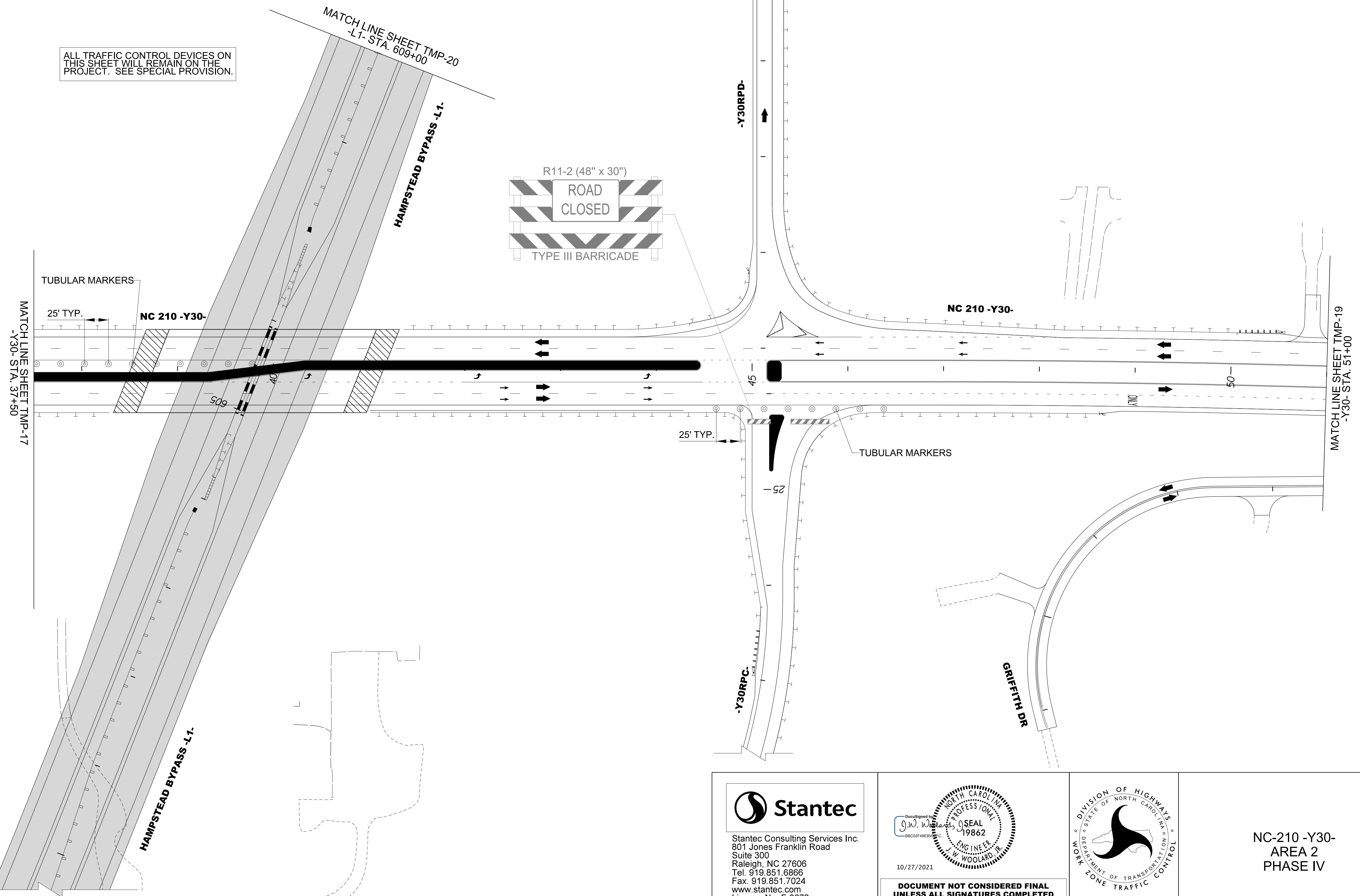
NC-210 -Y30-  
 AREA 2  
 PHASE IV

PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-18



MATCH LINE SHEET TMP-20  
-Y30RPD- STA. 20+00

ALL TRAFFIC CONTROL DEVICES ON THIS SHEET WILL REMAIN ON THE PROJECT. SEE SPECIAL PROVISION.



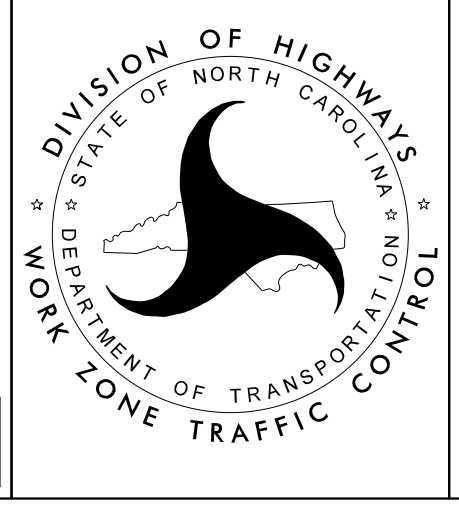
MATCH LINE SHEET TMP-17  
-Y30- STA. 37+50

MATCH LINE SHEET TMP-19  
-Y30- STA. 51+00

9/13/2021  
U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\TMP\_18\_AREA 2\_PHASE 4.dgn  
angood

**Stantec**  
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

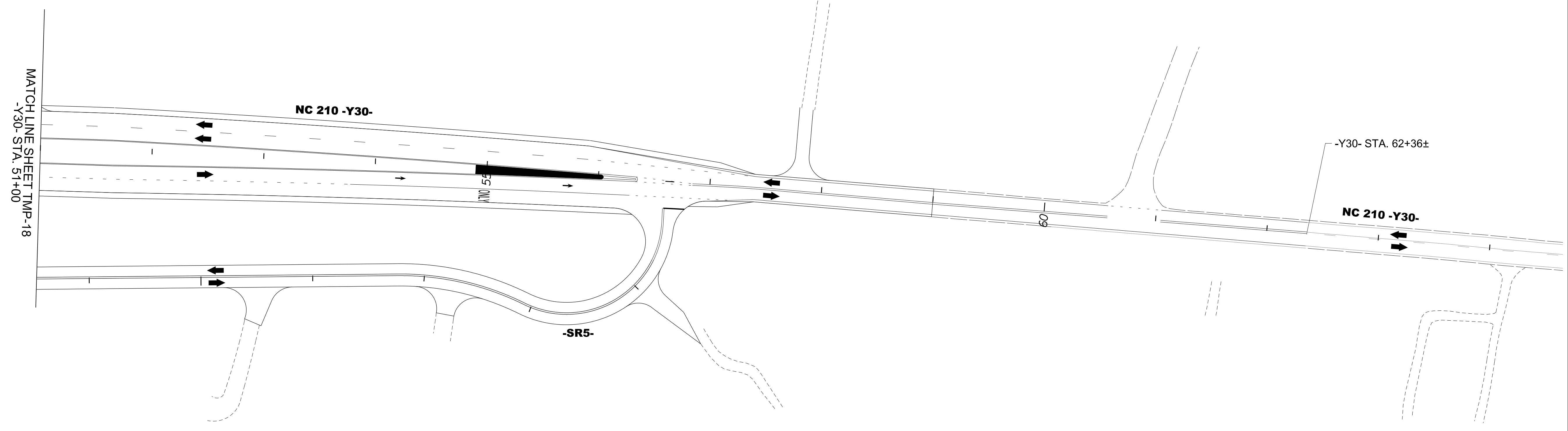
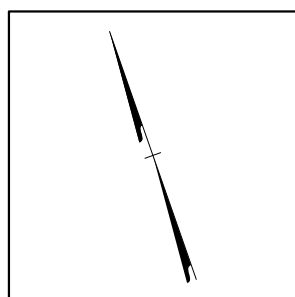
DocuSigned by:  
J.W. Woolard  
19862  
10/27/2021  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
19862  
ENGINEER  
J. W. WOOLARD, P.E.



NC-210 -Y30-  
AREA 2  
PHASE IV


DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

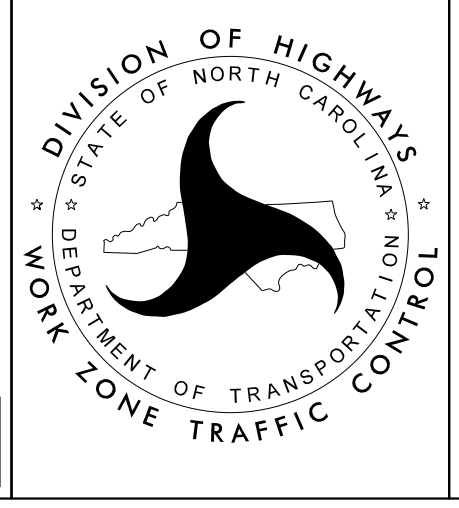
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-19



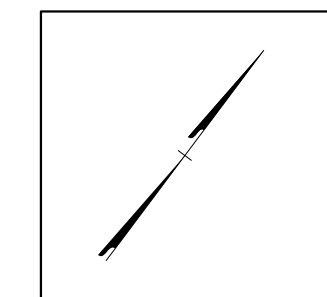
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_19\_AREA 2\_PHASE 4.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

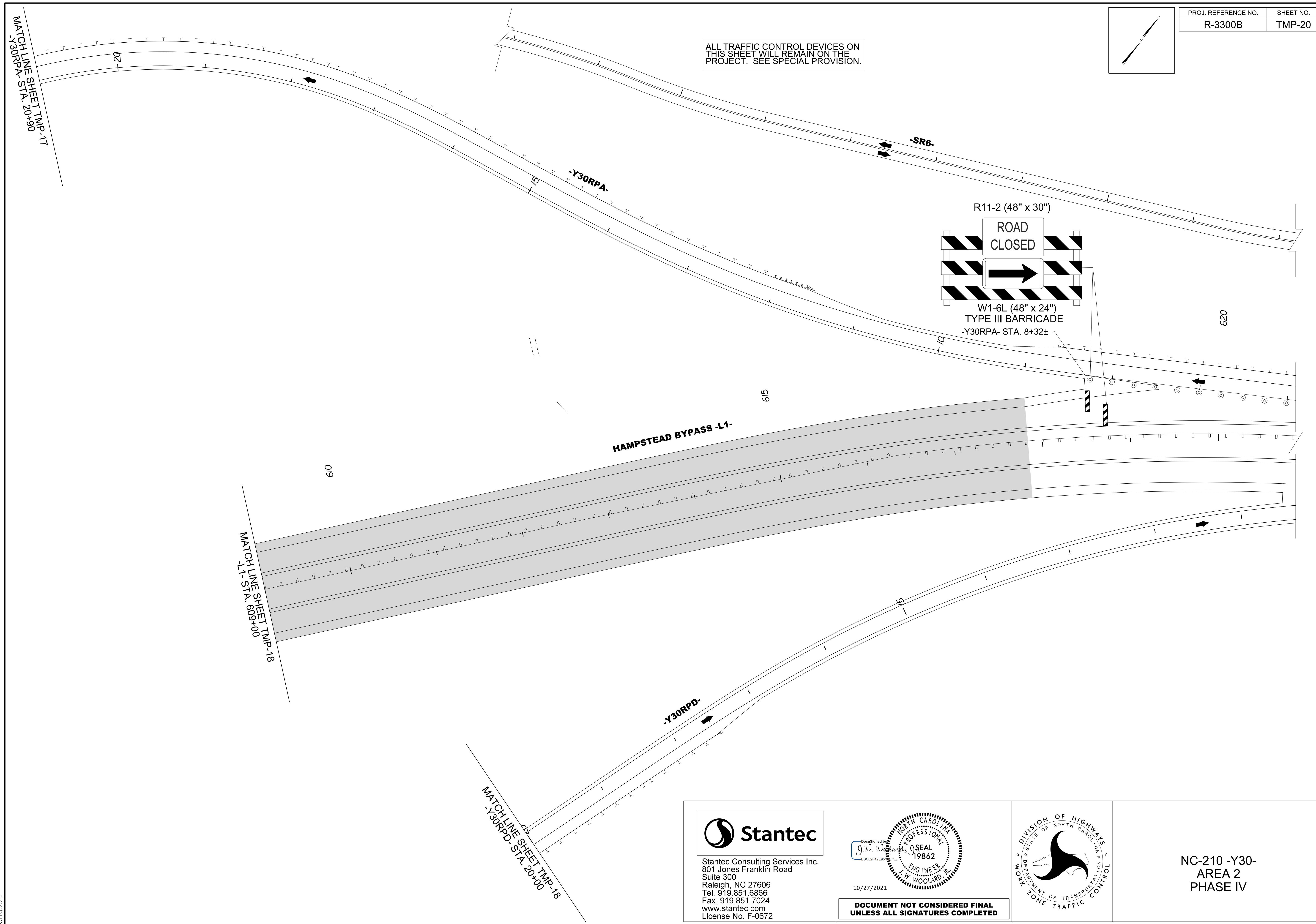
DocuSigned by:  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



NC-210 -Y30-  
 AREA 2  
 PHASE IV



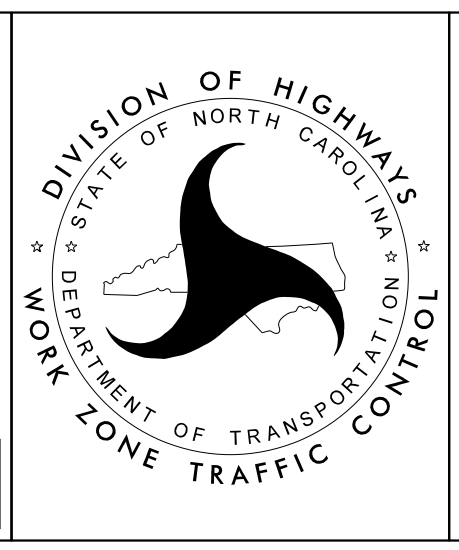
ALL TRAFFIC CONTROL DEVICES ON THIS SHEET WILL REMAIN ON THE PROJECT. SEE SPECIAL PROVISION.



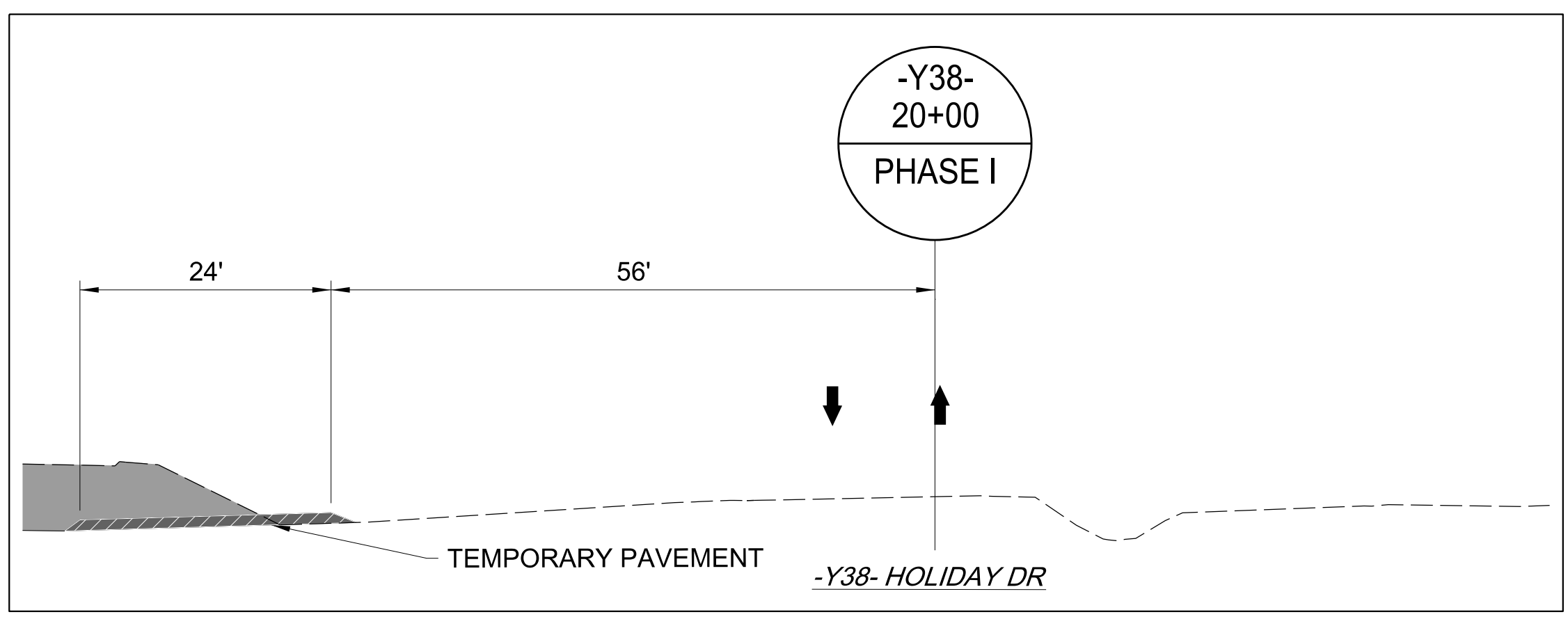
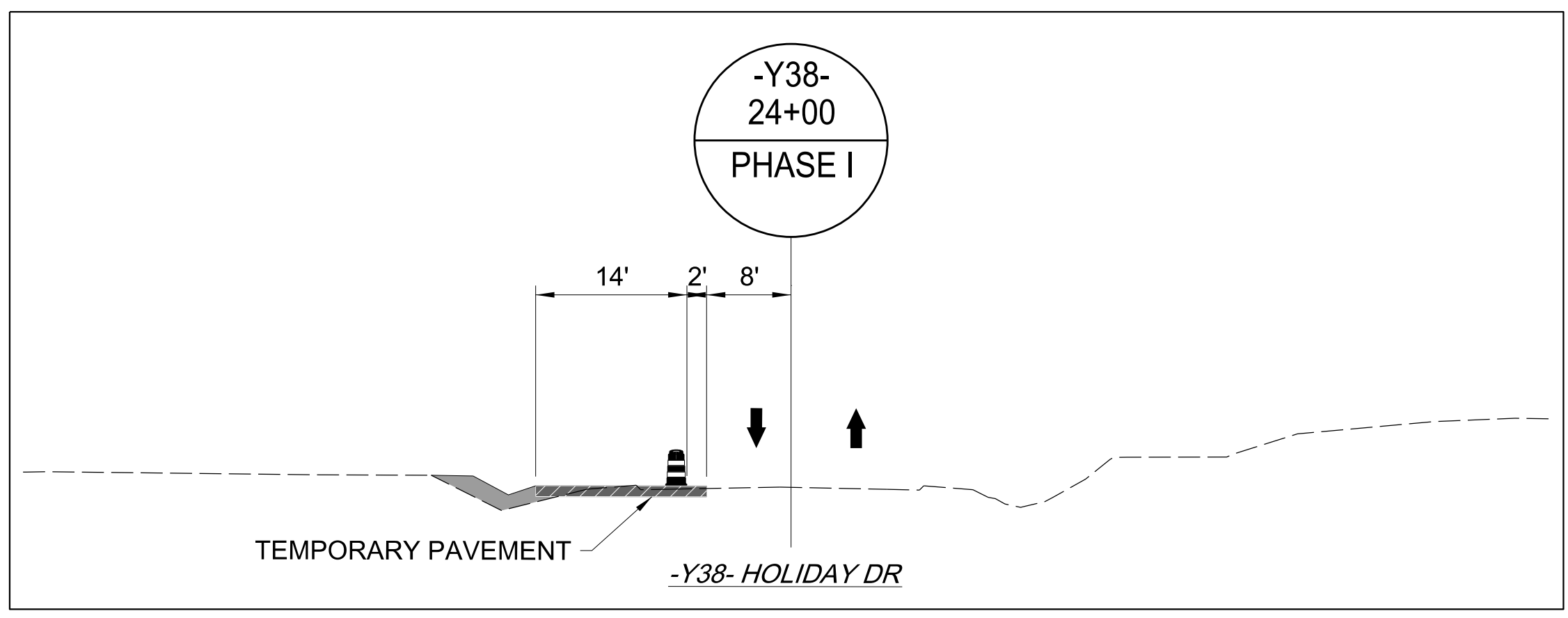
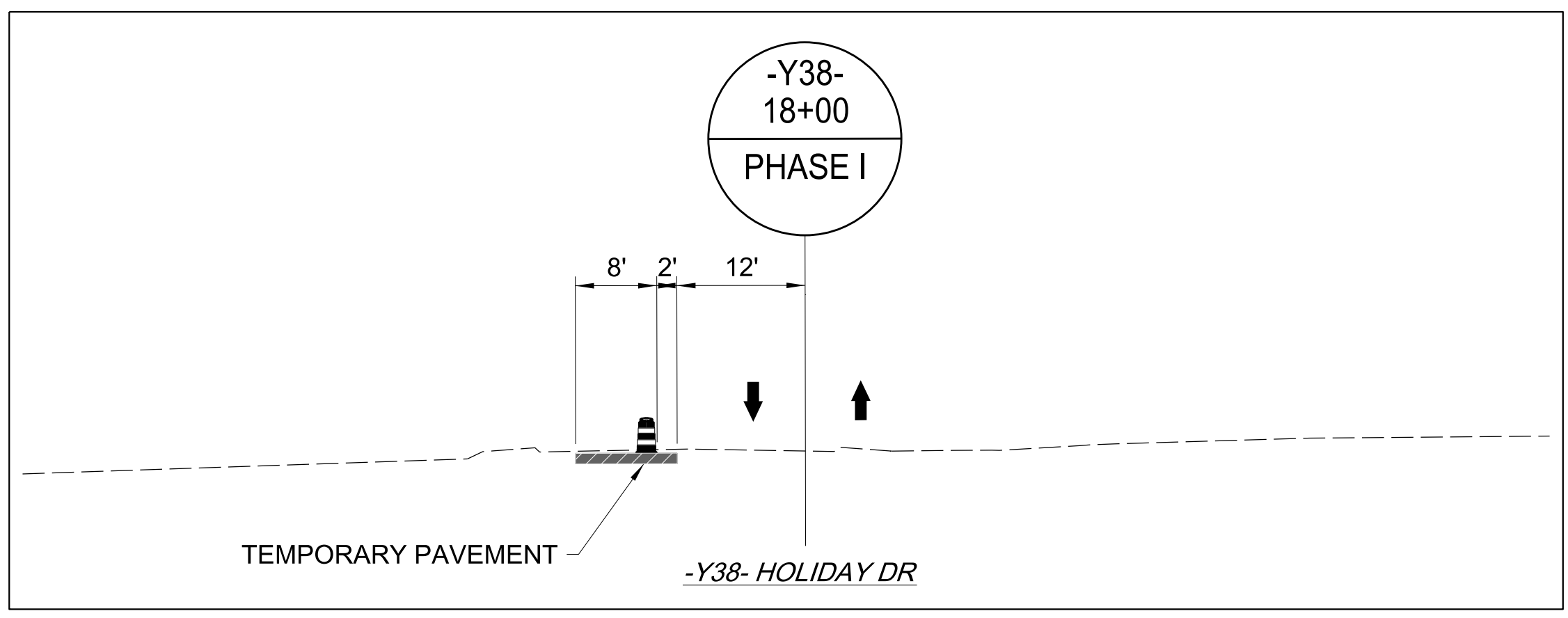
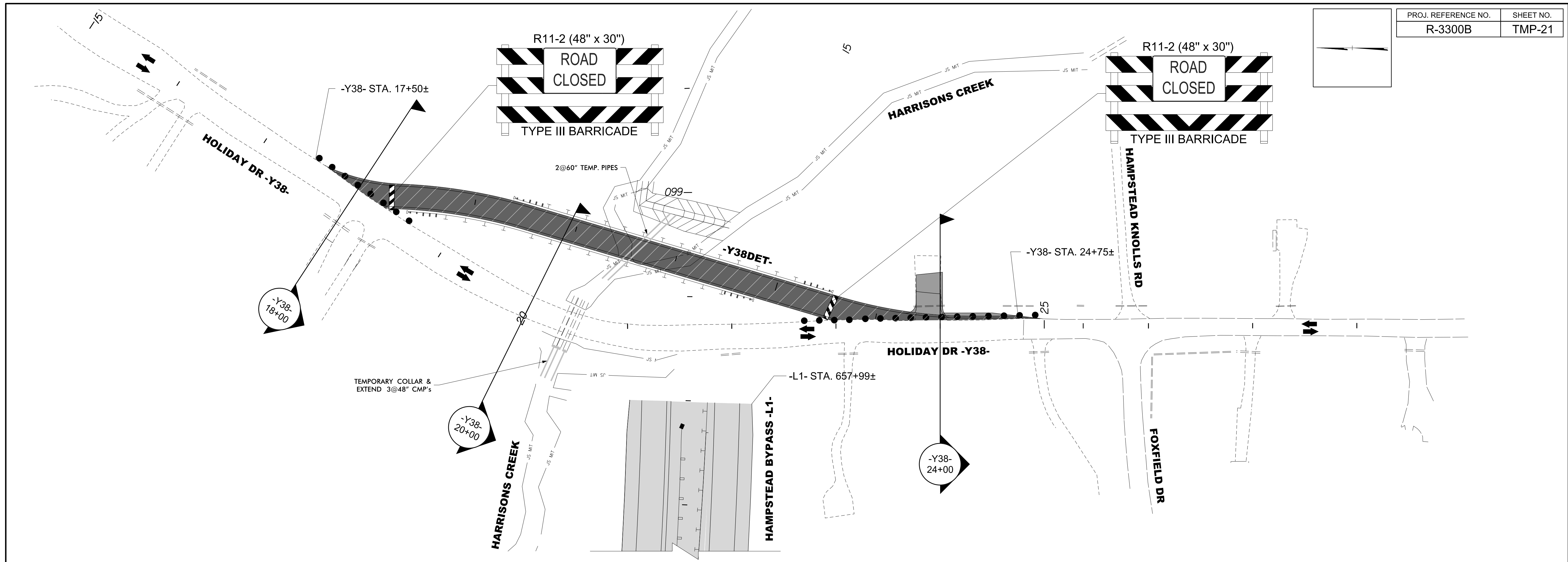
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_20\_AREA 2\_PHASE 4.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J. W. WOOLARD, P.E.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



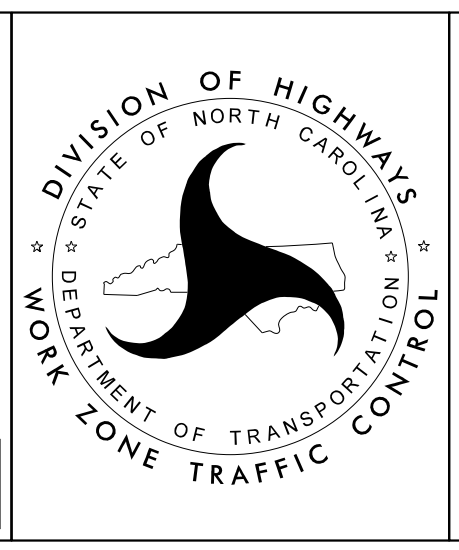
**NC-210 -Y30-  
 AREA 2  
 PHASE IV**



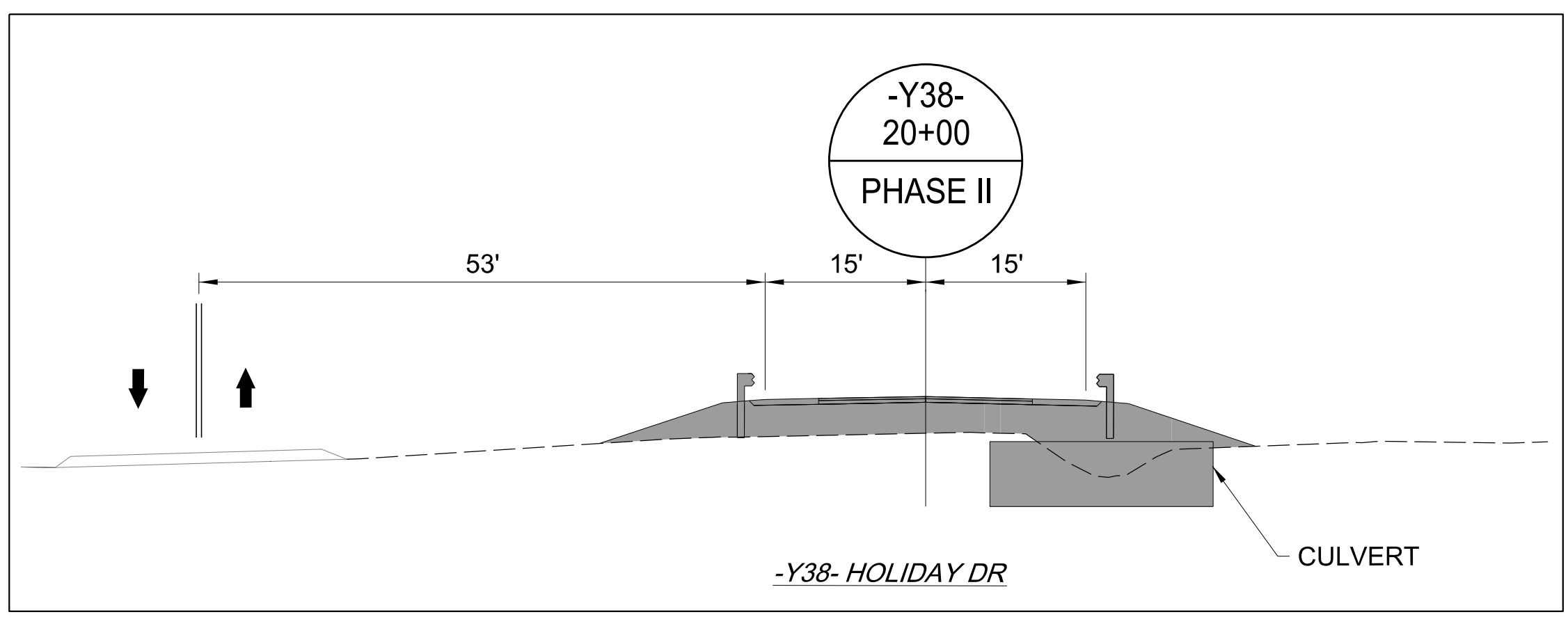
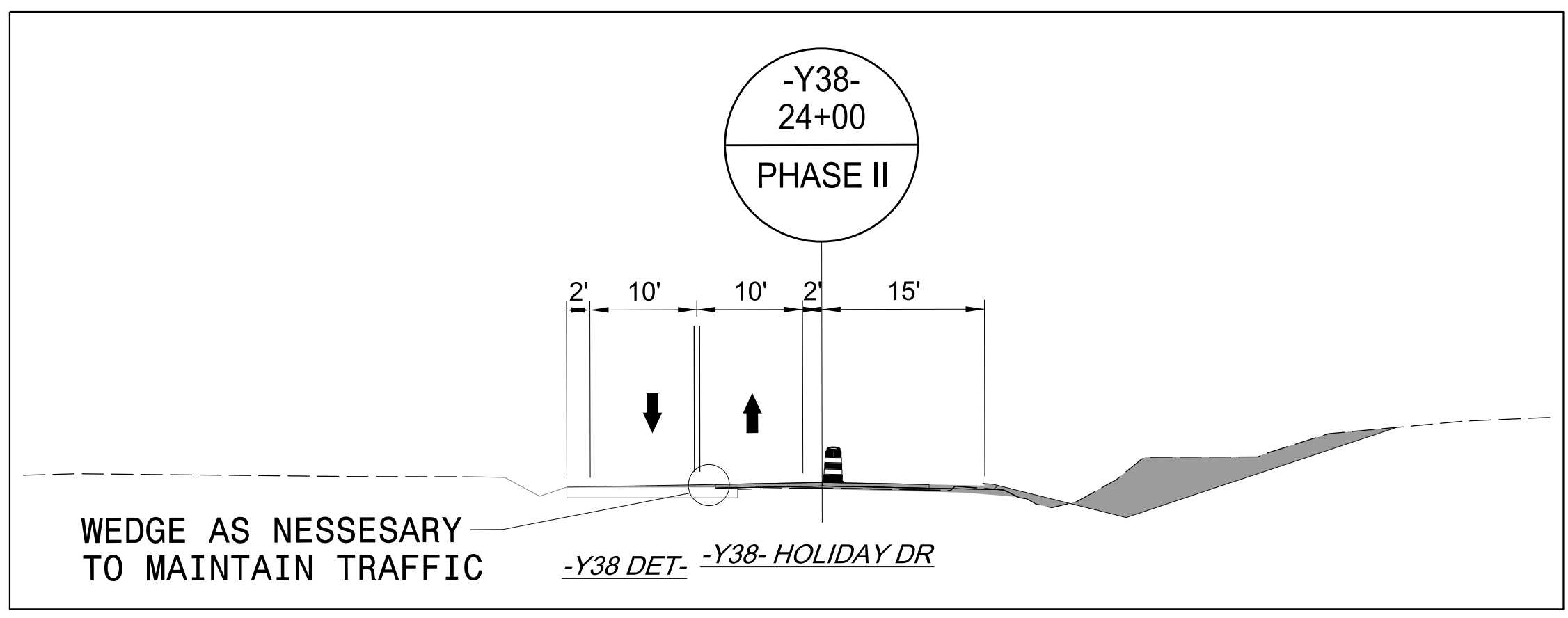
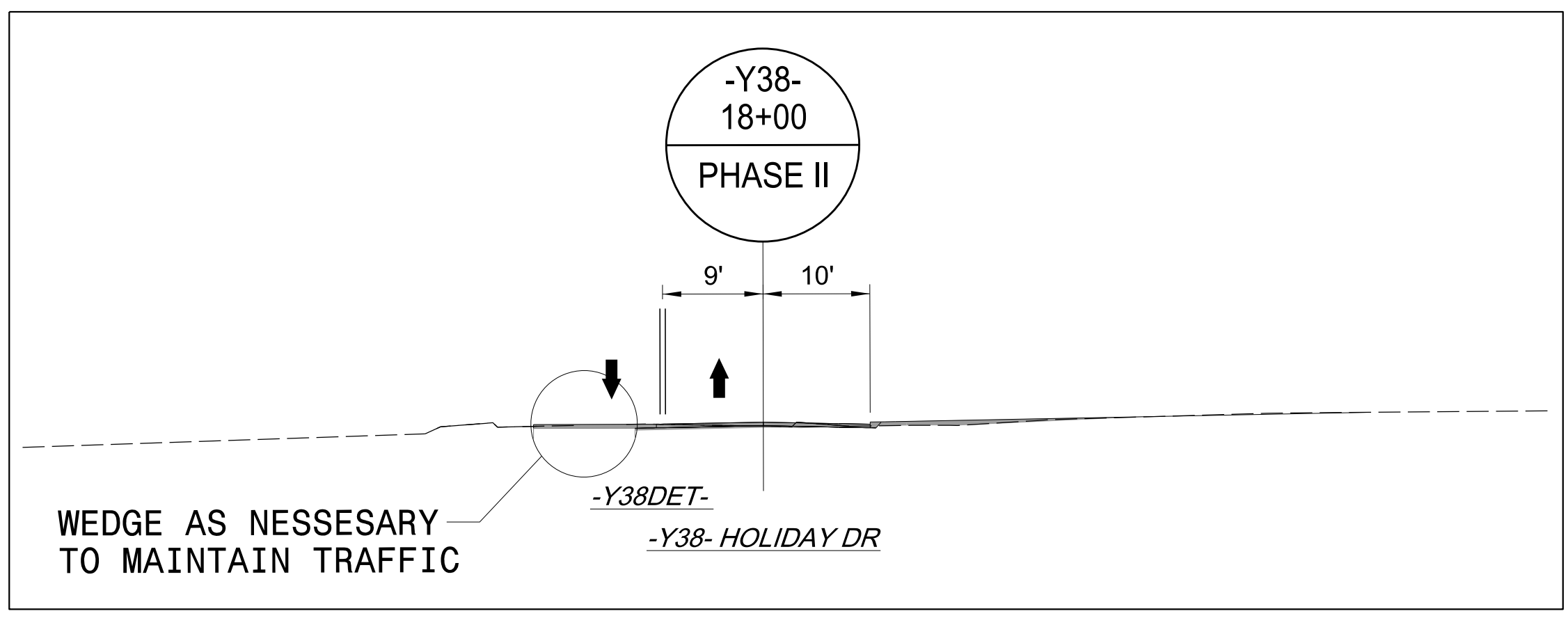
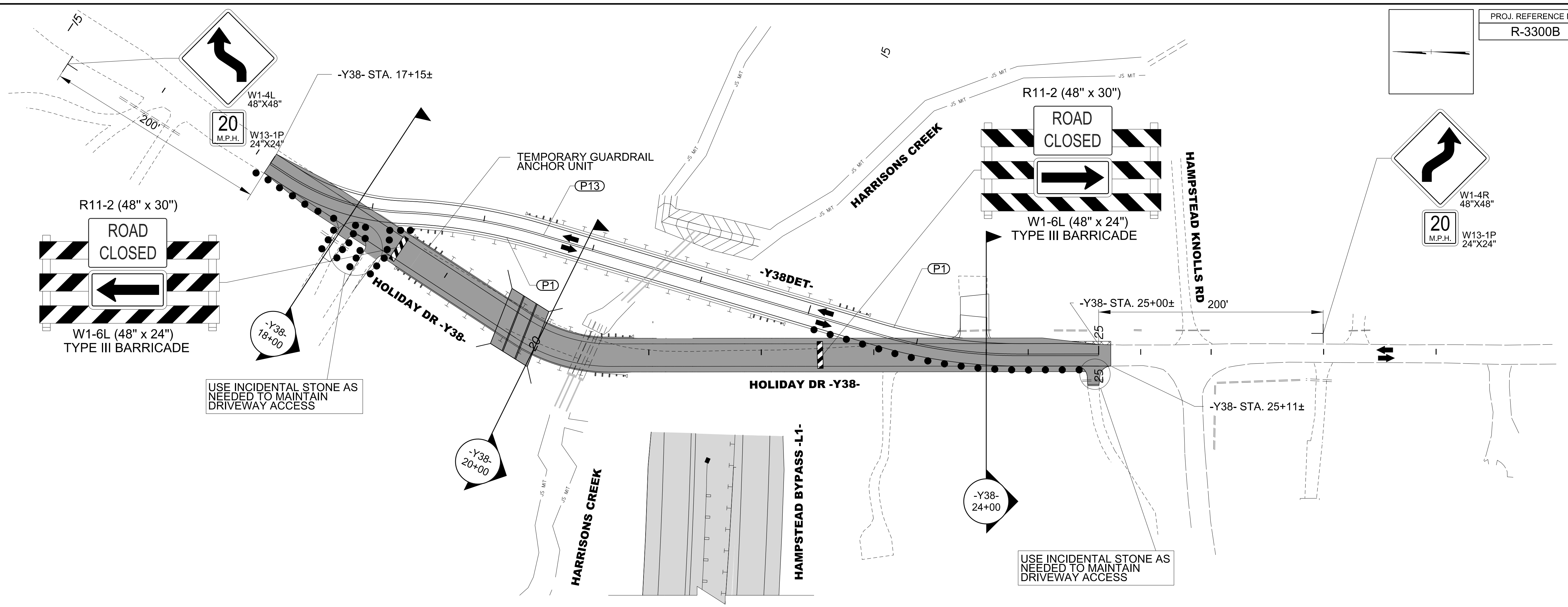
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_2\AREA 3\_PHASE 1.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 8BC02F49E83C  
 NORTH CAROLINA  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J. W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



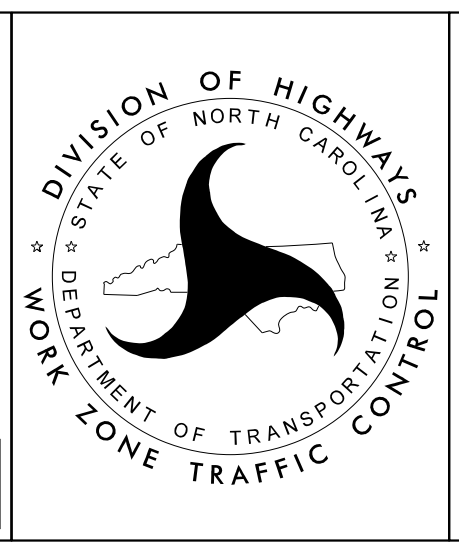
**HOLIDAY DR -Y38-  
 AREA 3  
 PHASE I**



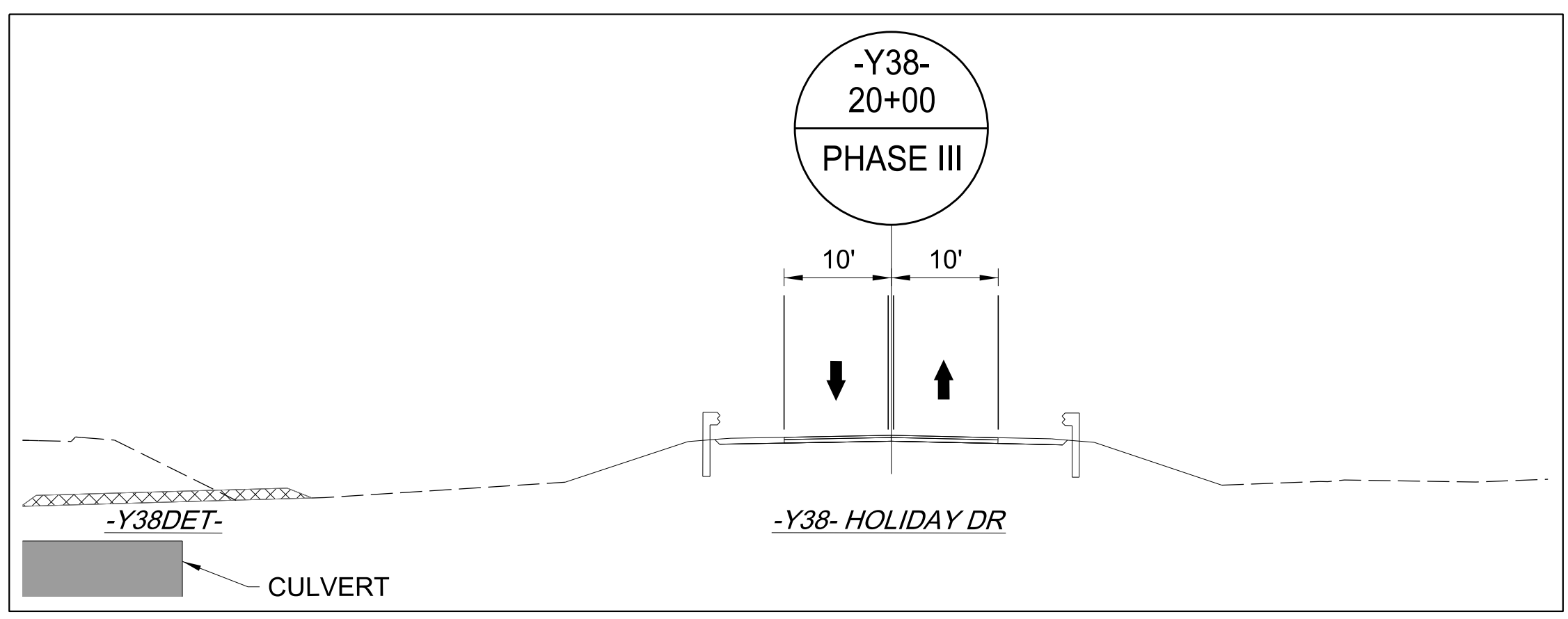
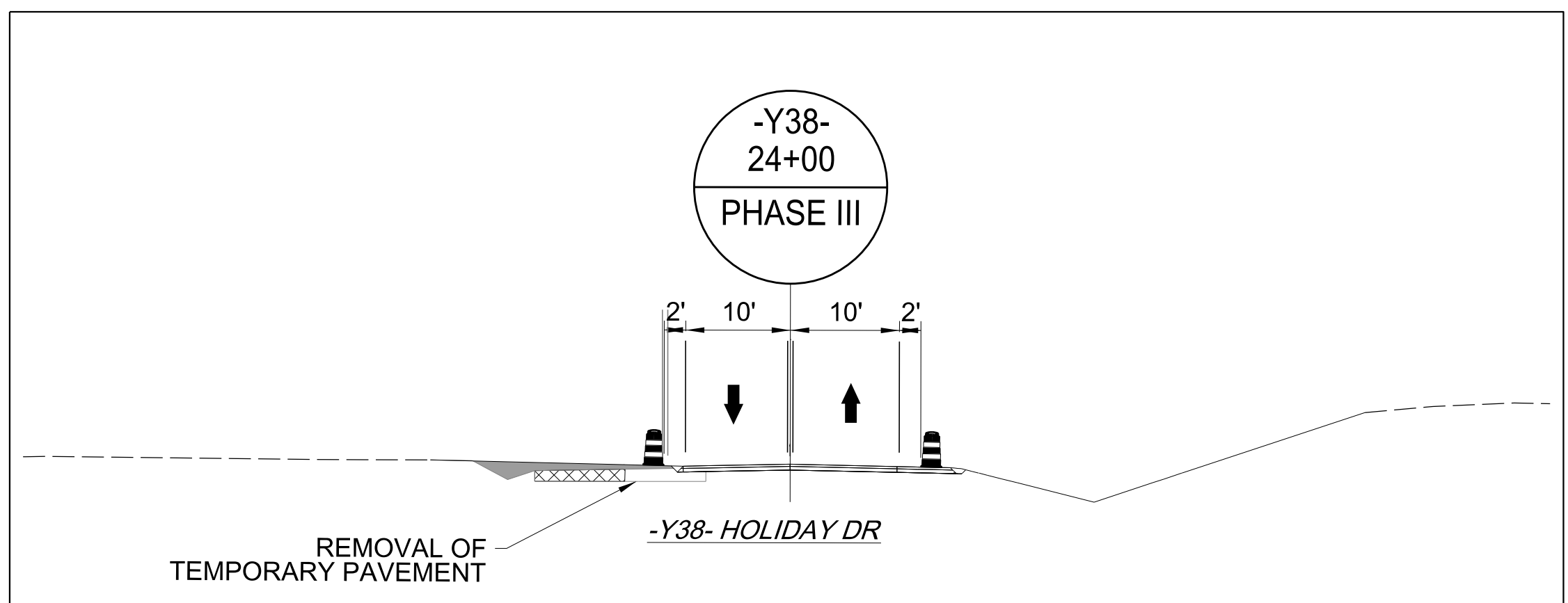
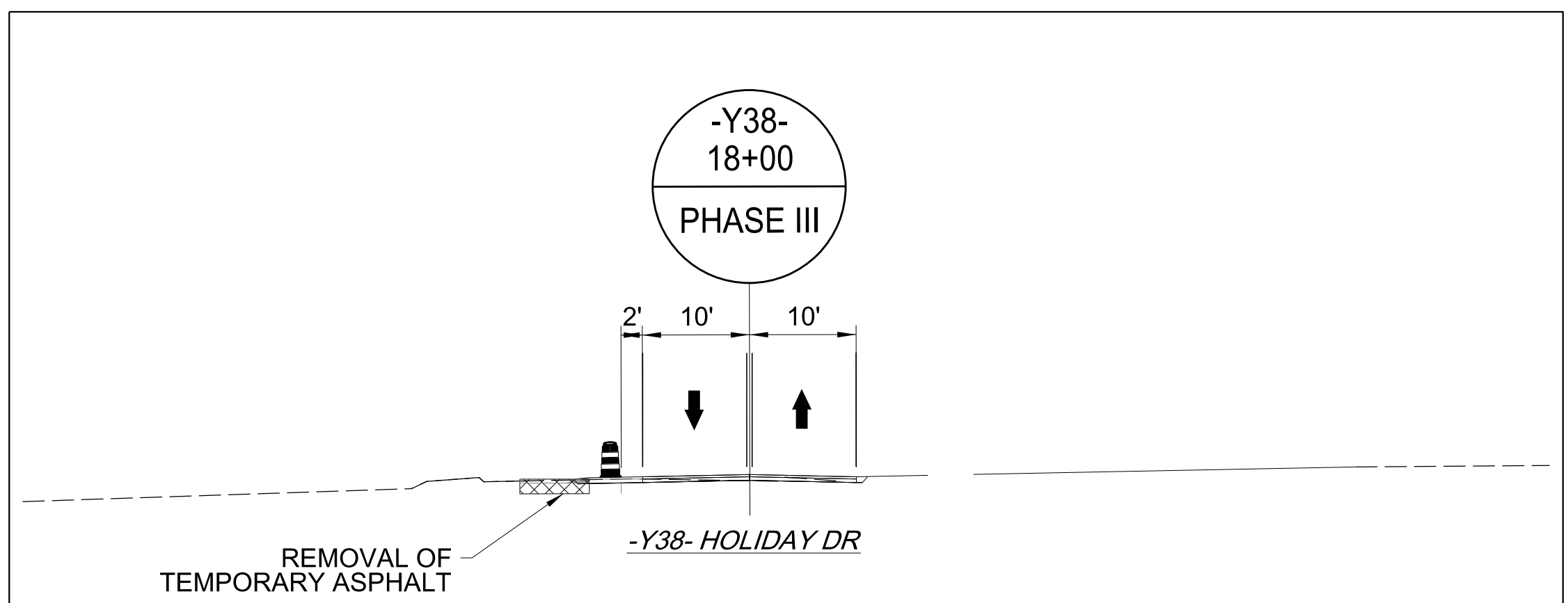
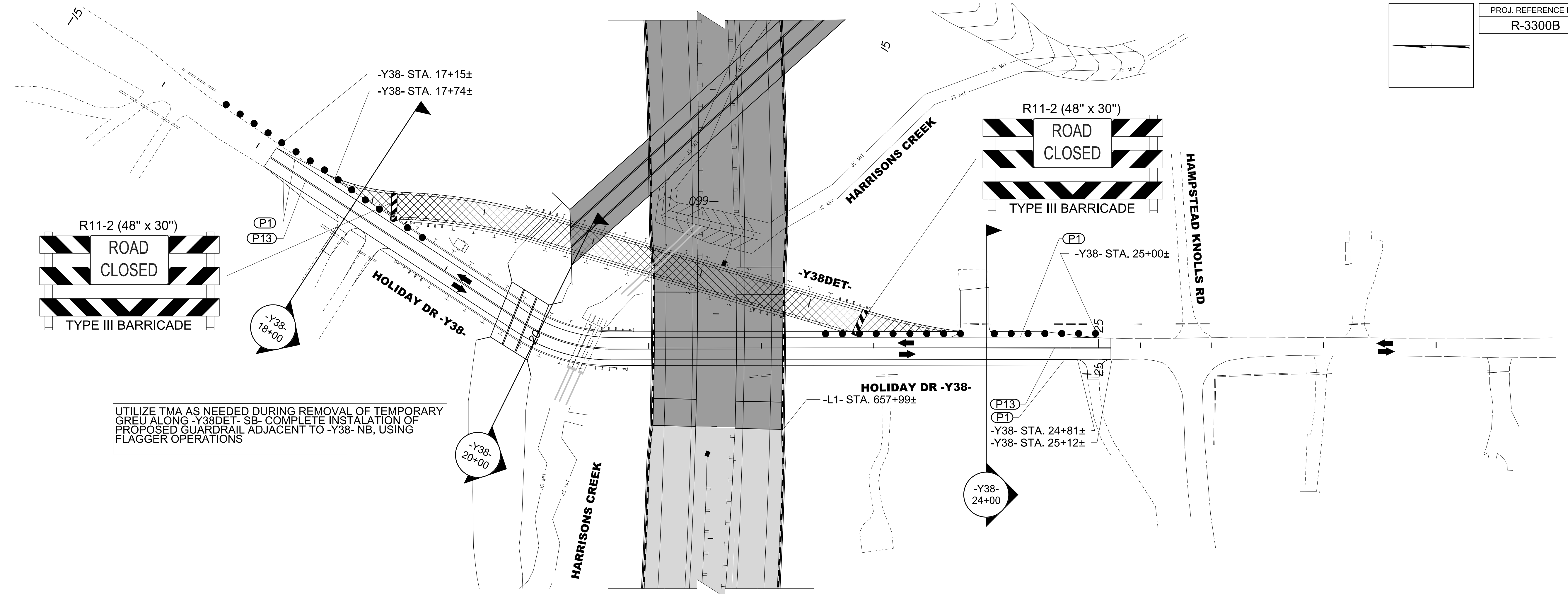
9/13/2021 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_22\_AREA 3\_PHASE 2.dgn angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 8BC02F49E83C  
 NORTH CAROLINA  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J. W. WOOLARD, P.E.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



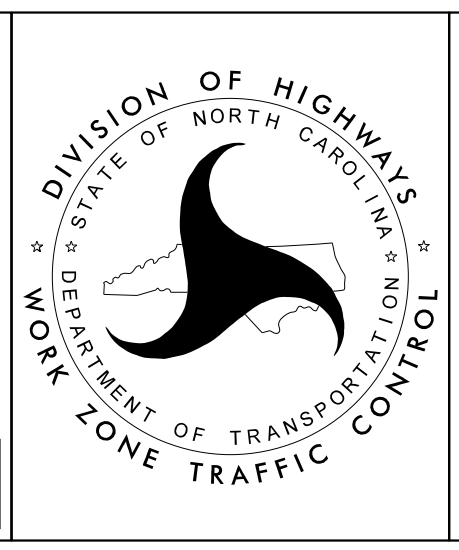
**HOLIDAY DR -Y38-  
 AREA 3  
 PHASE II**



9/13/2021  
U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_23\_AREA\_3\_PHASE\_3.dgn  
angood

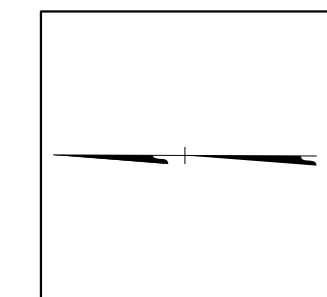
**Stantec**  
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

DocuSigned by:  
J.W. Woolard  
PROFESSIONAL SEAL  
19862  
ENGINEER  
J.W. WOOLARD, R.  
10/27/2021  
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

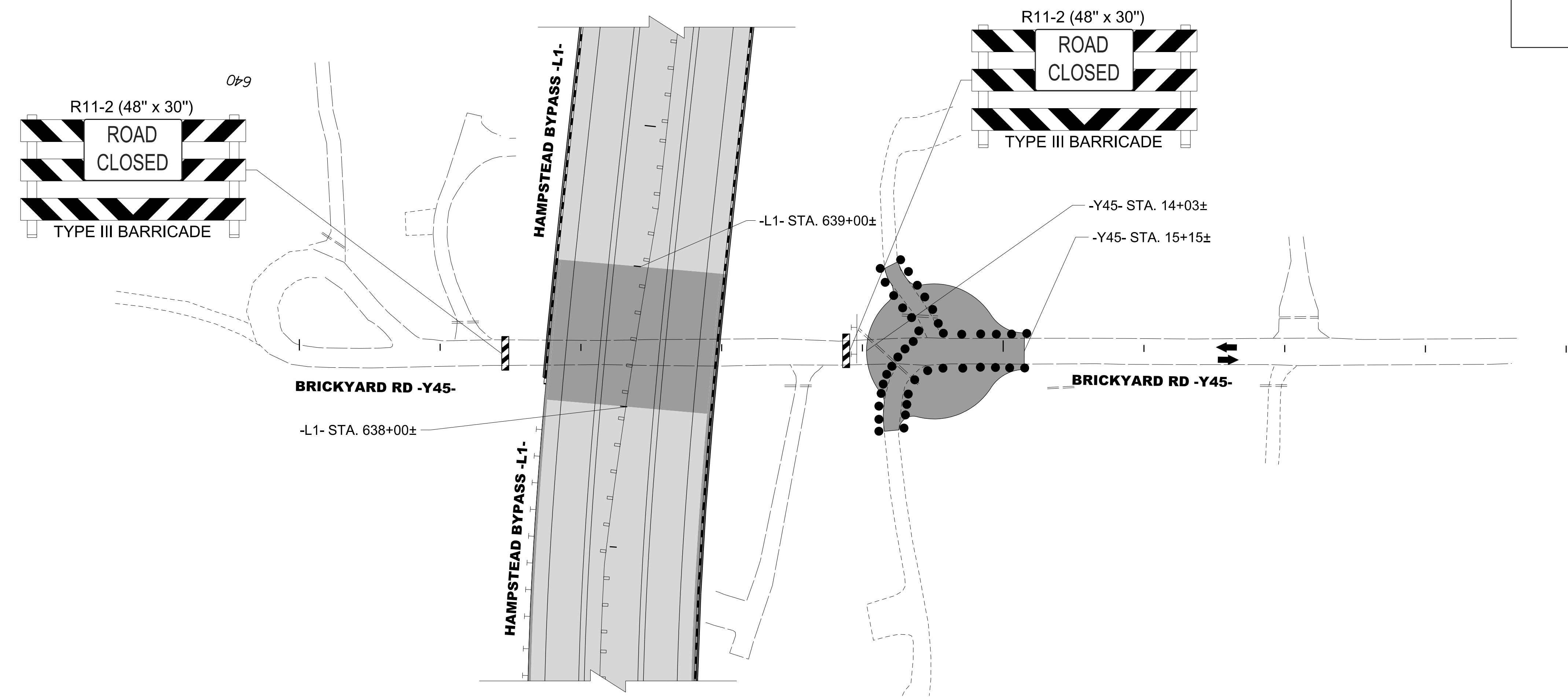


HOLIDAY DR -Y38-  
AREA 3  
PHASE III

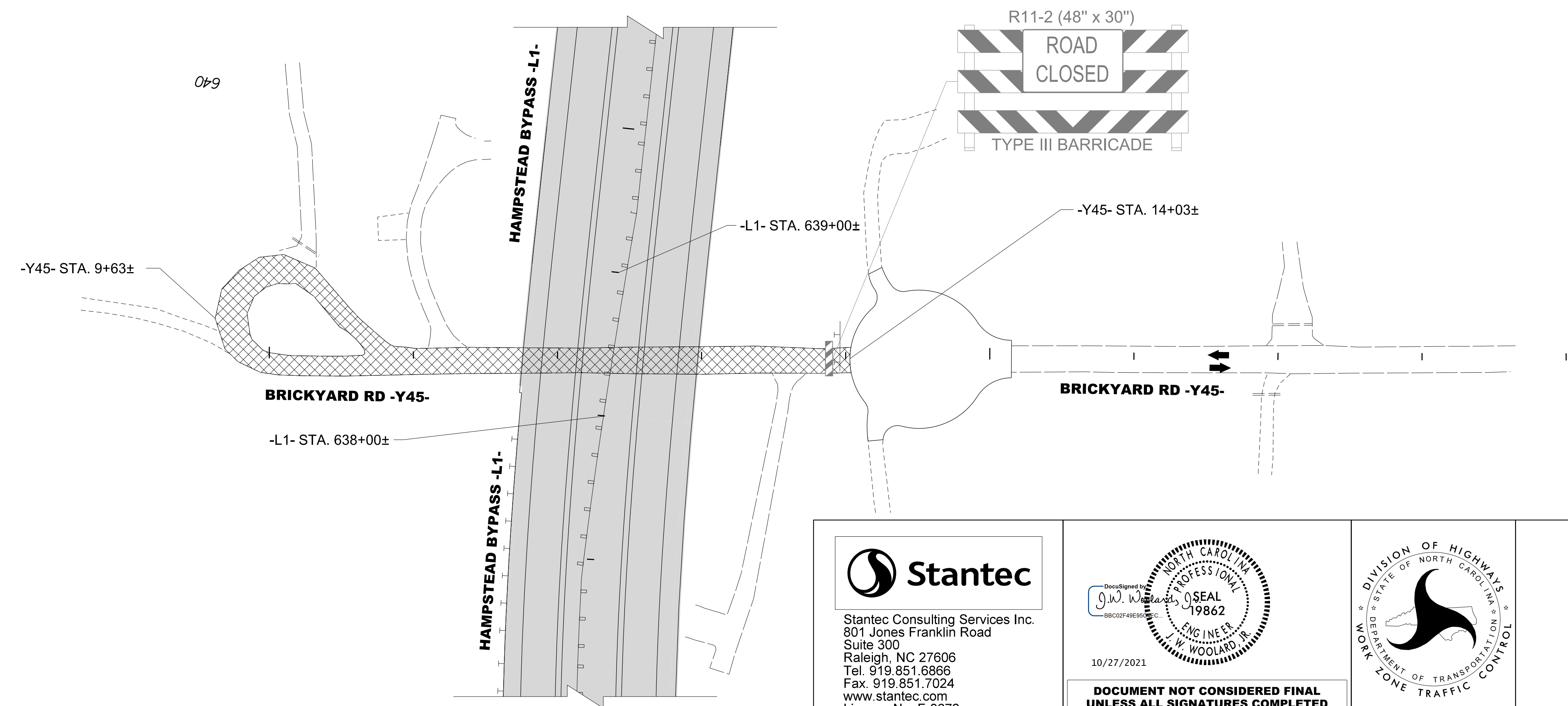




# PHASE I



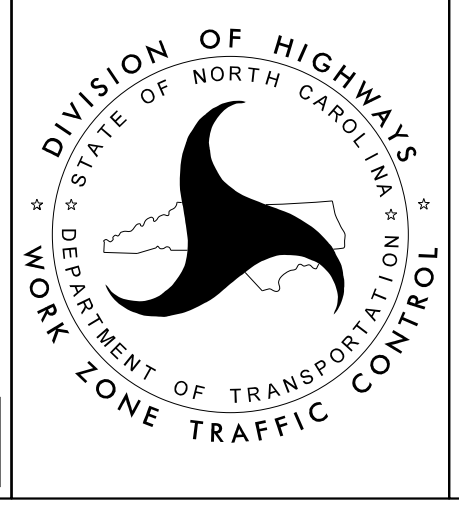
# PHASE II



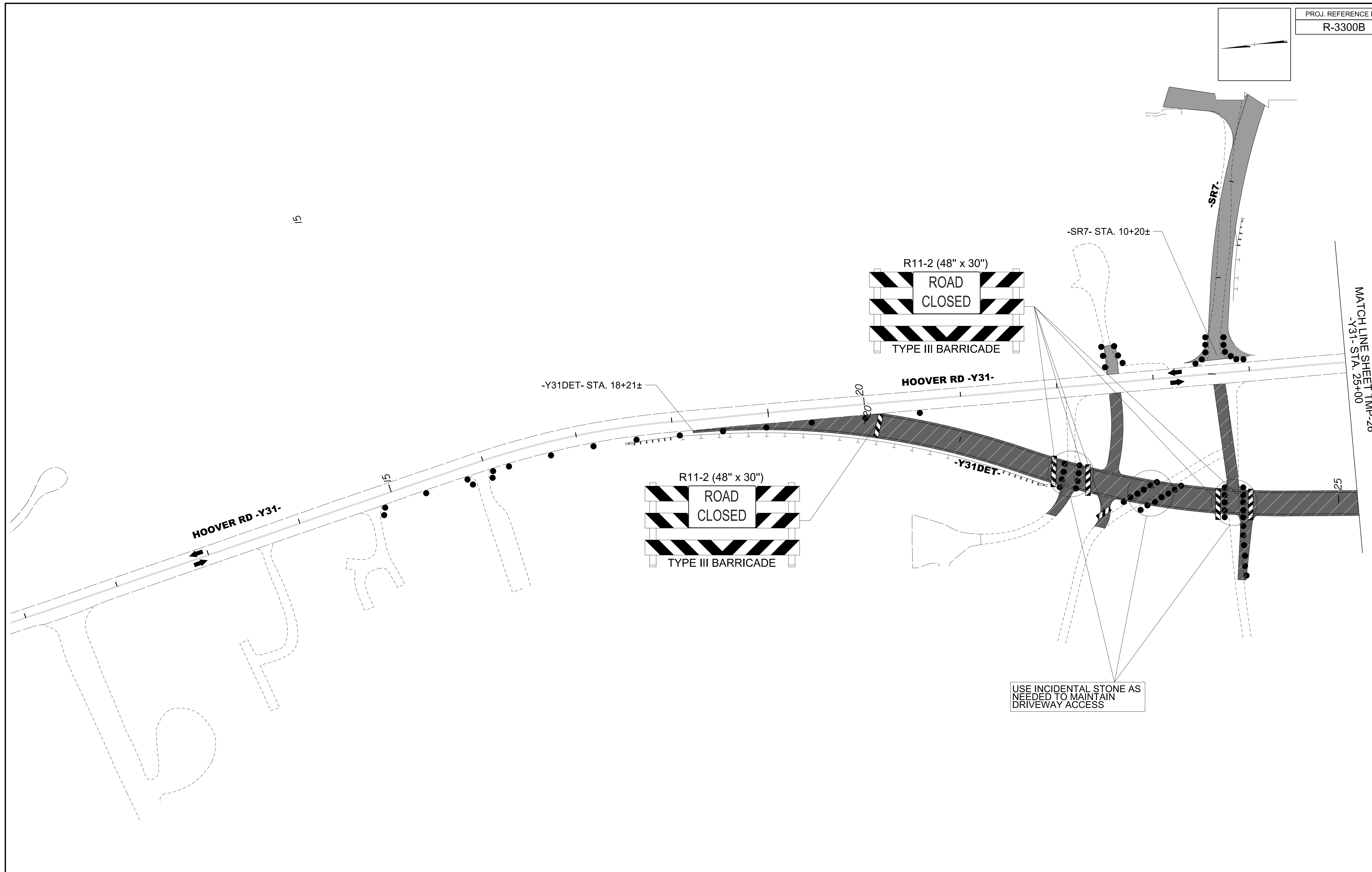
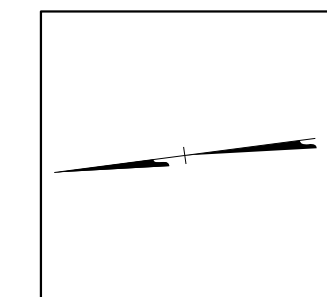
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_24\_AREA 3\_PHASE 1-2.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**


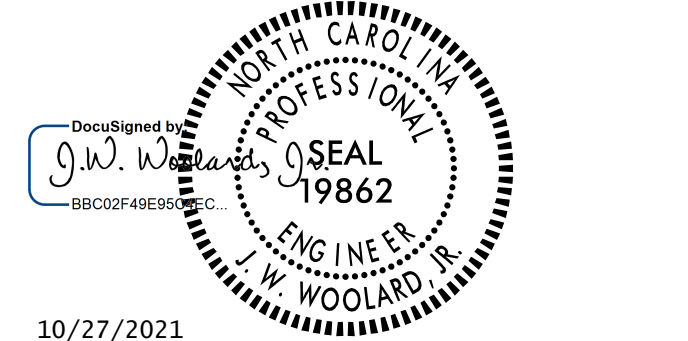
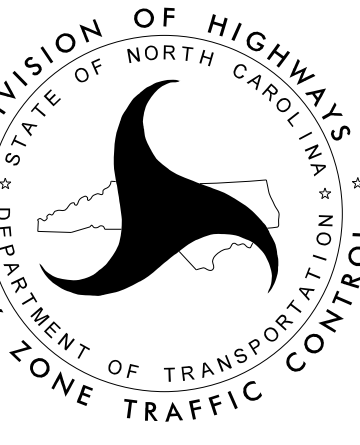


**BRICKYARD RD -Y45-  
 AREA 3  
 PHASE I/II**

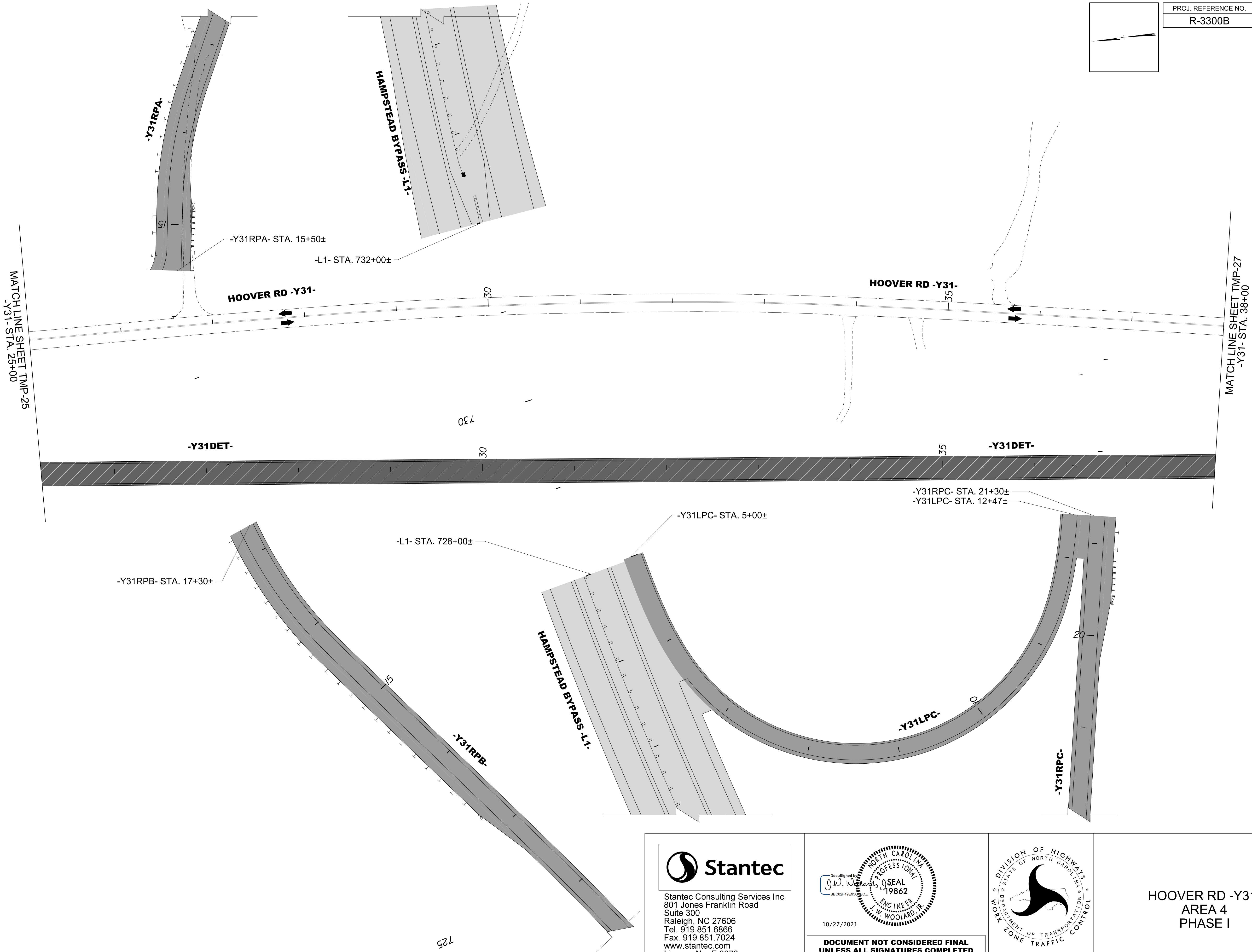
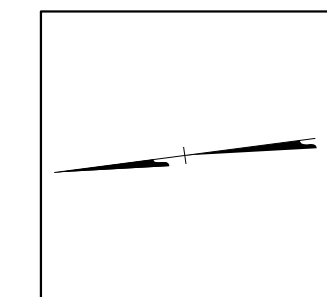


USE INCIDENTAL STONE AS  
NEEDED TO MAINTAIN  
DRIVEWAY ACCESS

9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\R-3300B\_TMP\_25\_AREA\_4\_PHASE\_I.dgn  
 angood


 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672</p>	 <p>10/27/2021</p> <p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>	 <p>DIVISION OF HIGHWAYS DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>HOOVER RD -Y31- AREA 4 PHASE I</p>
--	---	--	---


PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-26



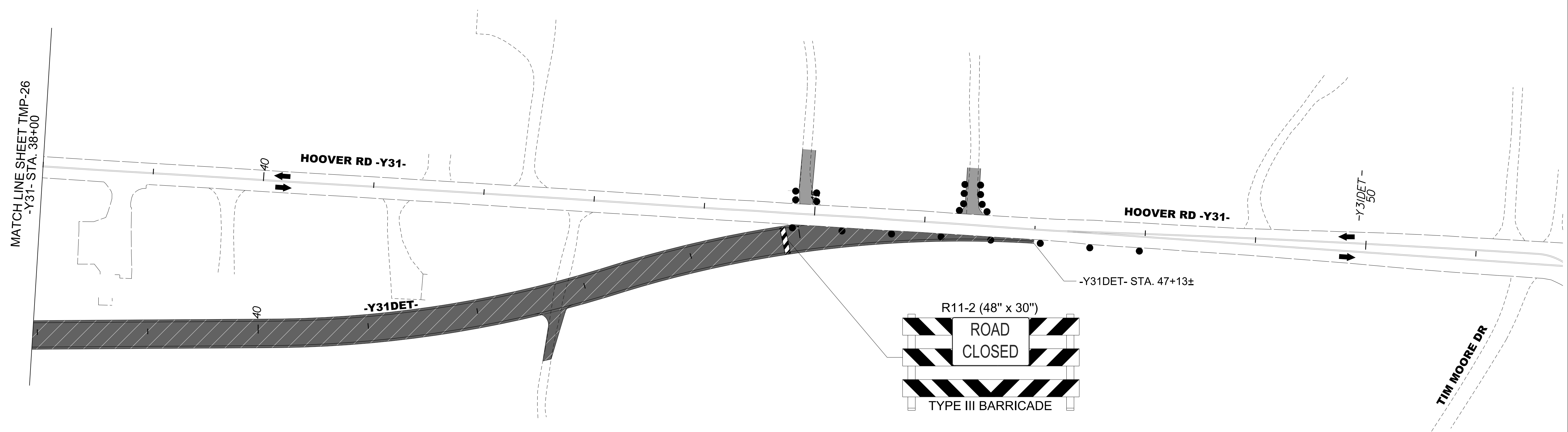
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_26.AREA 4\_PHASE I.dgn  
 angood


**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

DIVISION OF HIGHWAYS  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL  


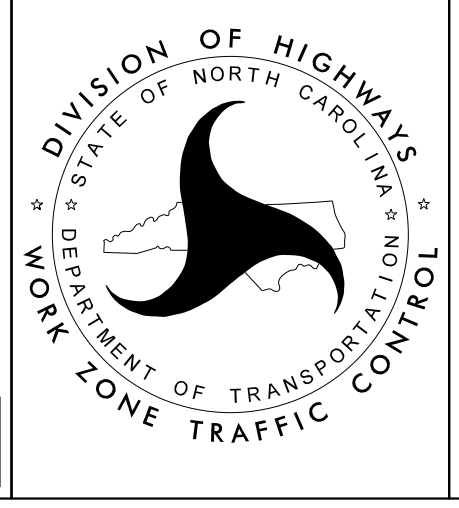
**HOOVER RD -Y31-  
 AREA 4  
 PHASE I**



9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_27\_AREA\_4\_PHASE\_1.dgn  
 angood

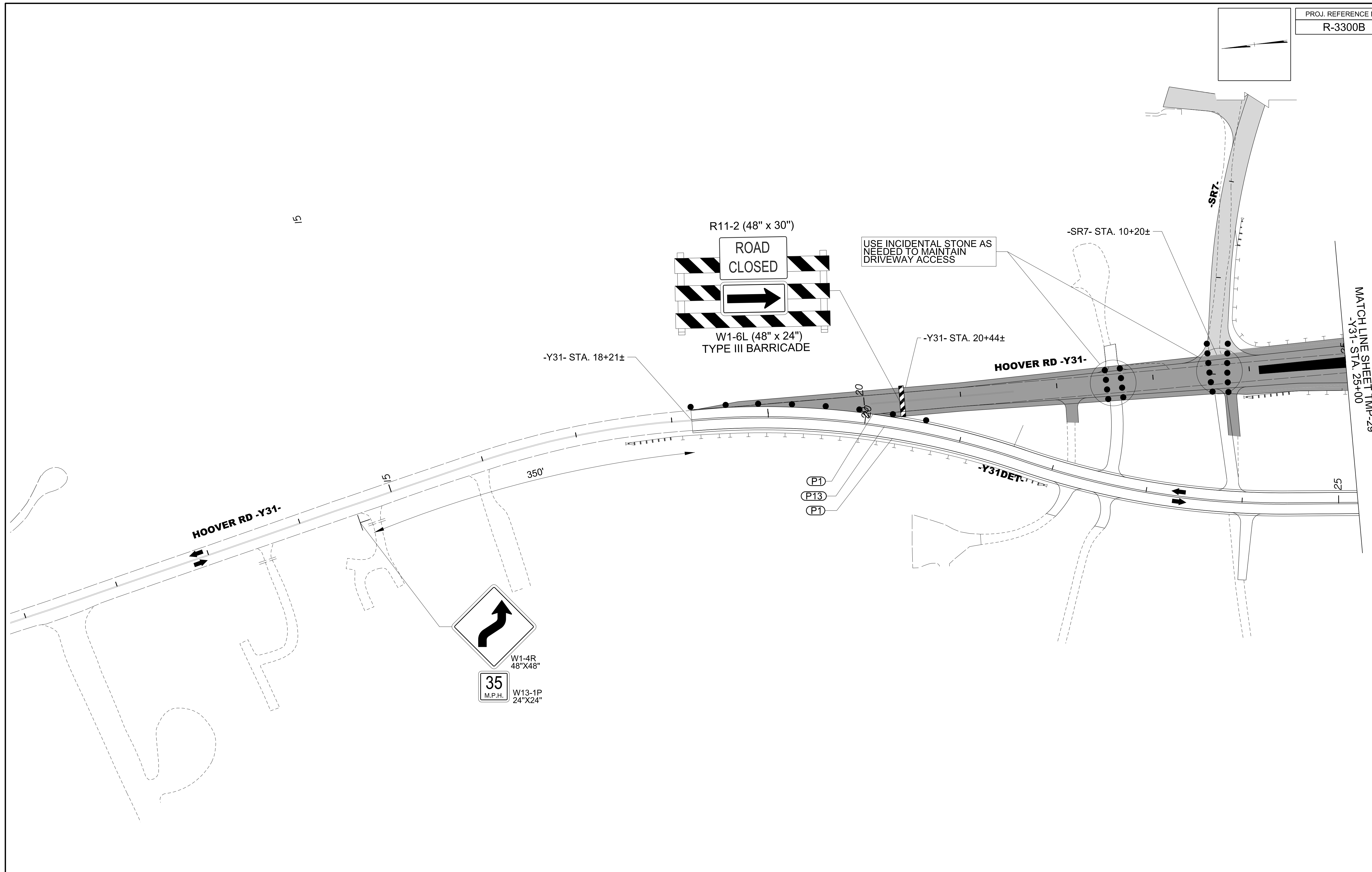
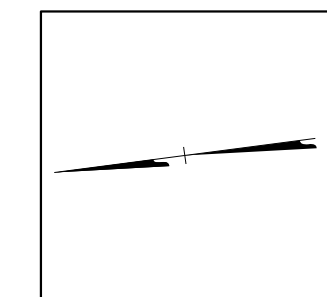
Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J. W. WOOLARD, R.  
 10/27/2021

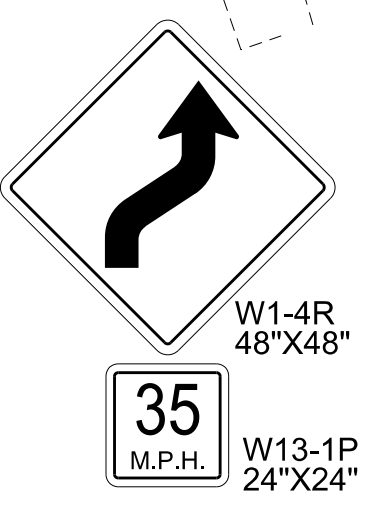


HOOVER RD -Y31-  
 AREA 4  
 PHASE I

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



MATCH LINE SHEET TMP-29  
-Y31- STA. 25+00

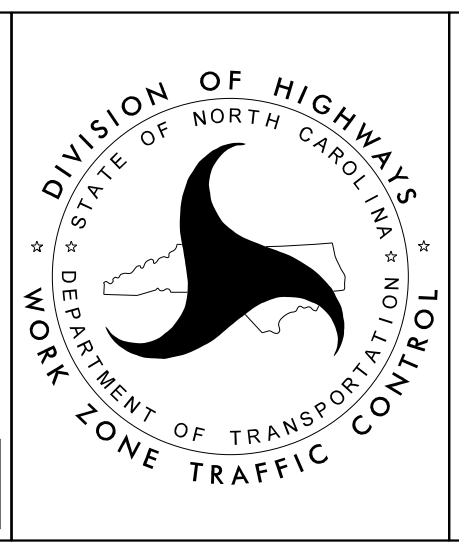


9/13/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_28\_AREA 4\_PHASE 2.dgn  
angood

Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

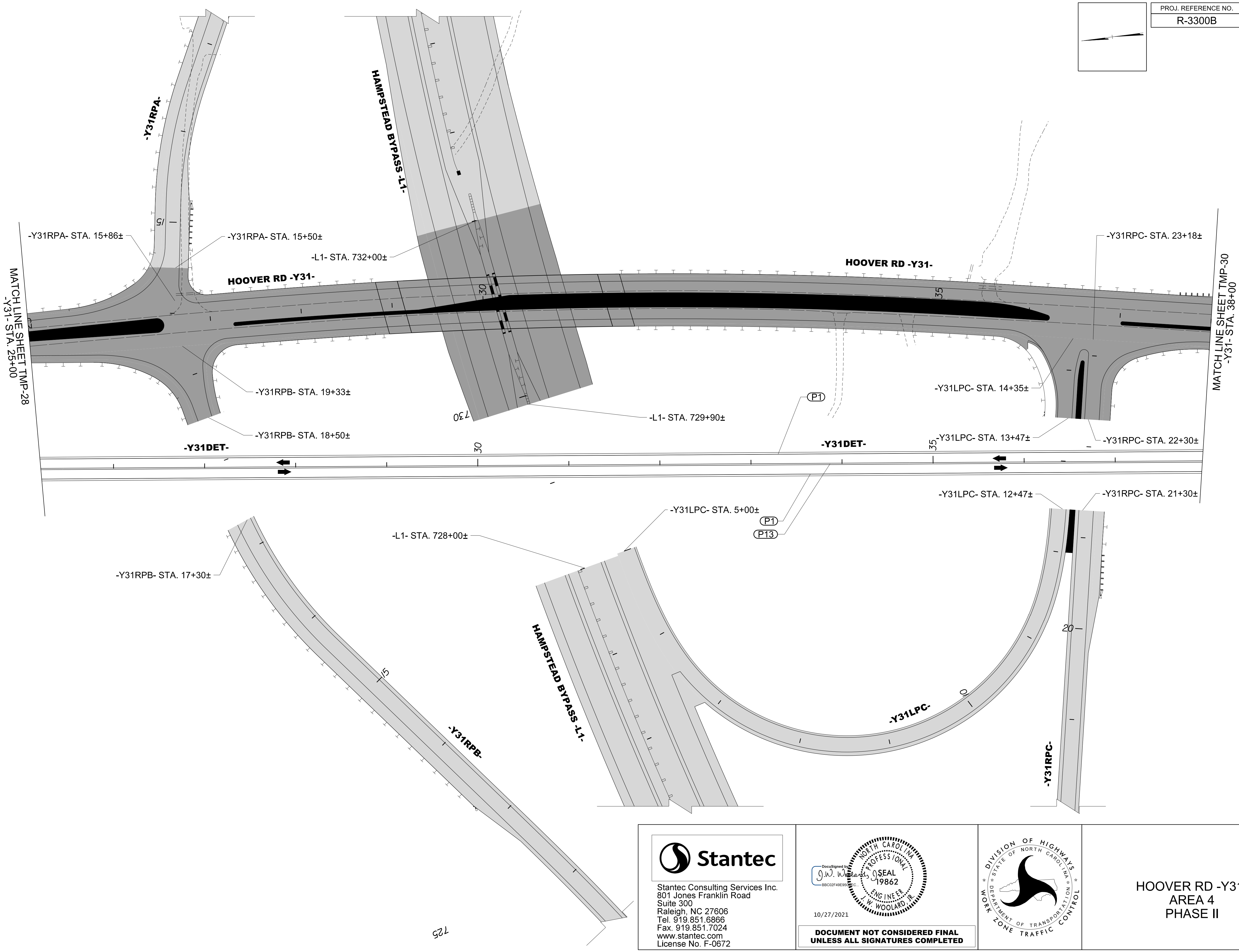
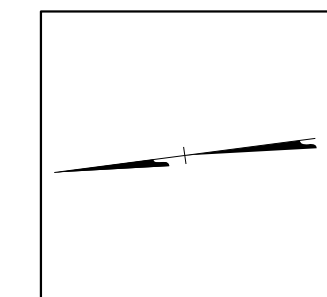
DocuSigned by:  
J.W. Woolard  
19862  
10/27/2021

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



**HOOVER RD -Y31-  
AREA 4  
PHASE II**

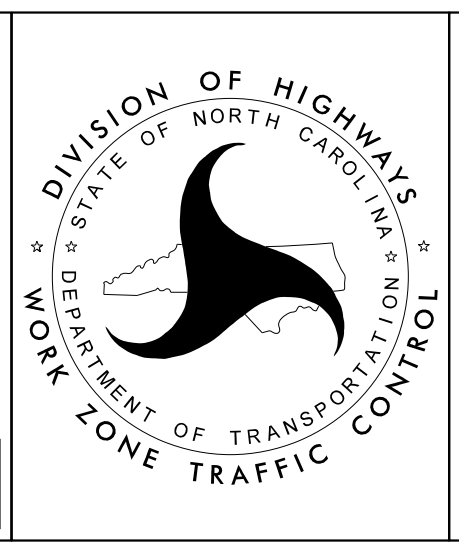
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-29



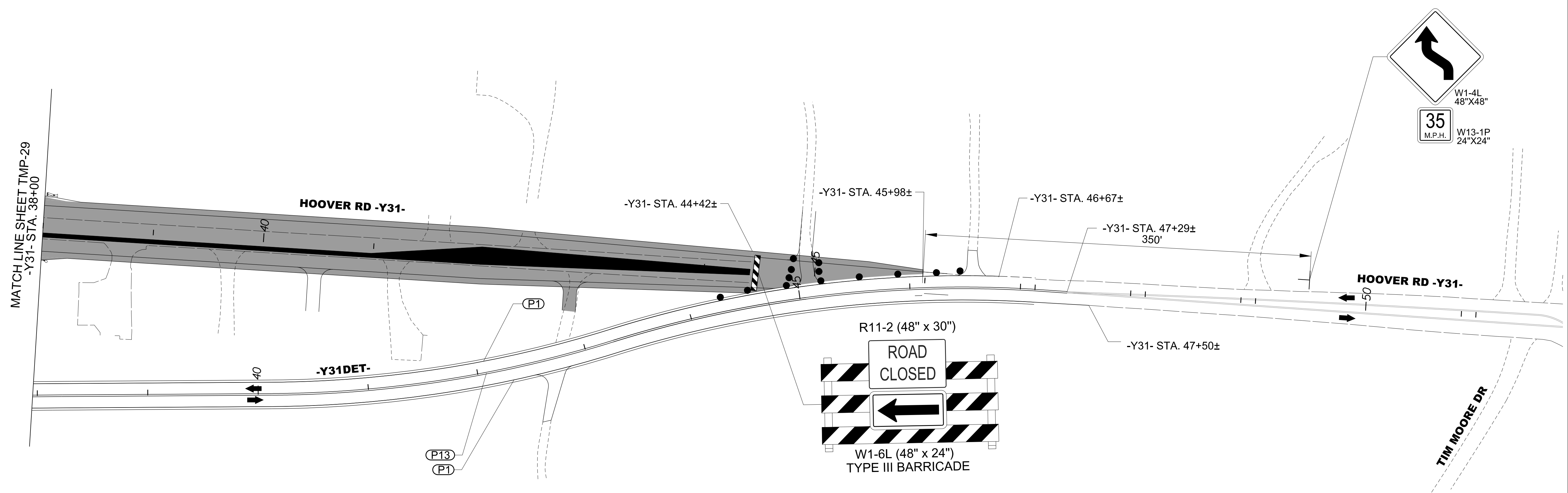
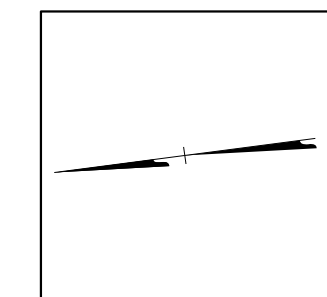
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_29\_AREA 4\_PHASE 2.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 19862  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



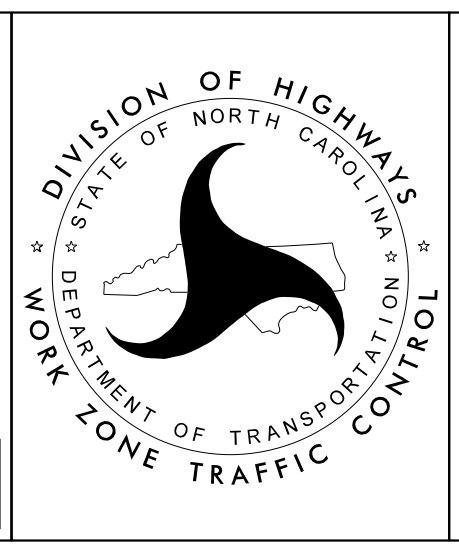
**HOOVER RD -Y31-  
 AREA 4  
 PHASE II**



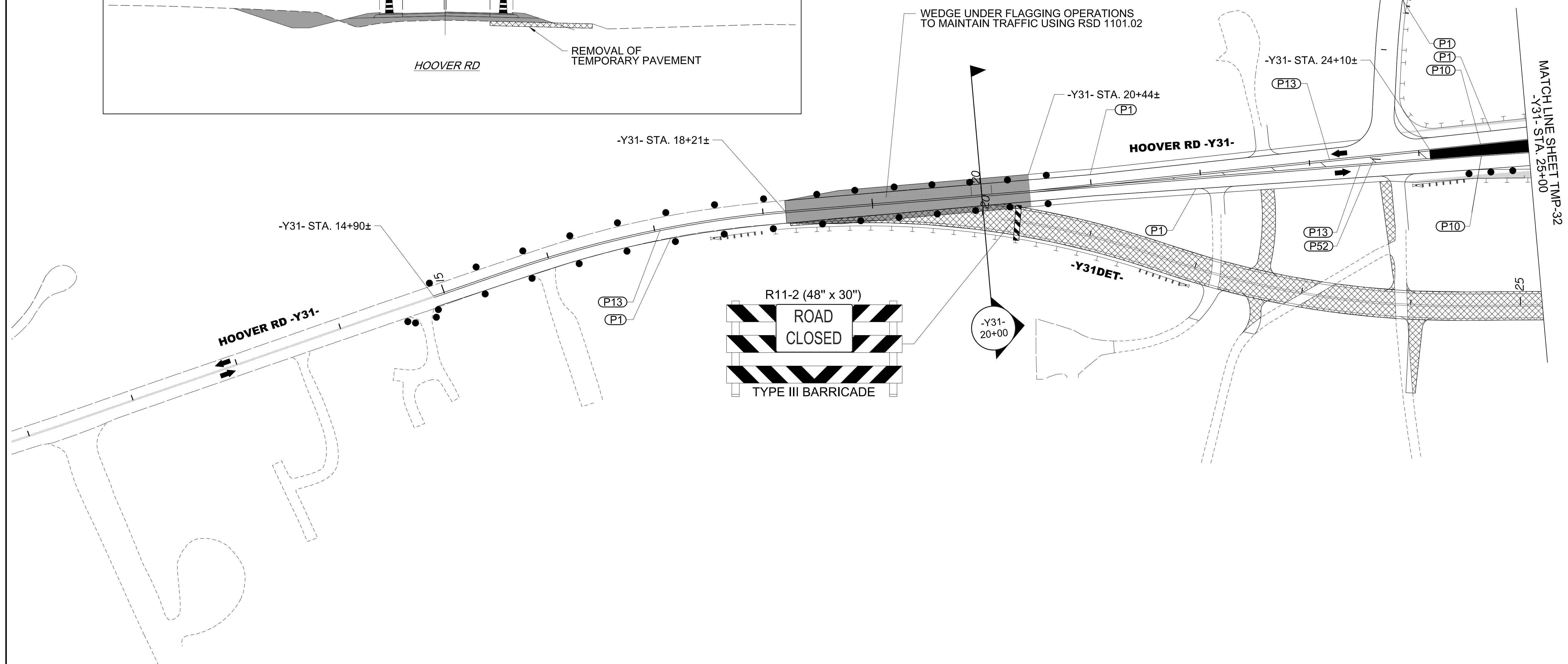
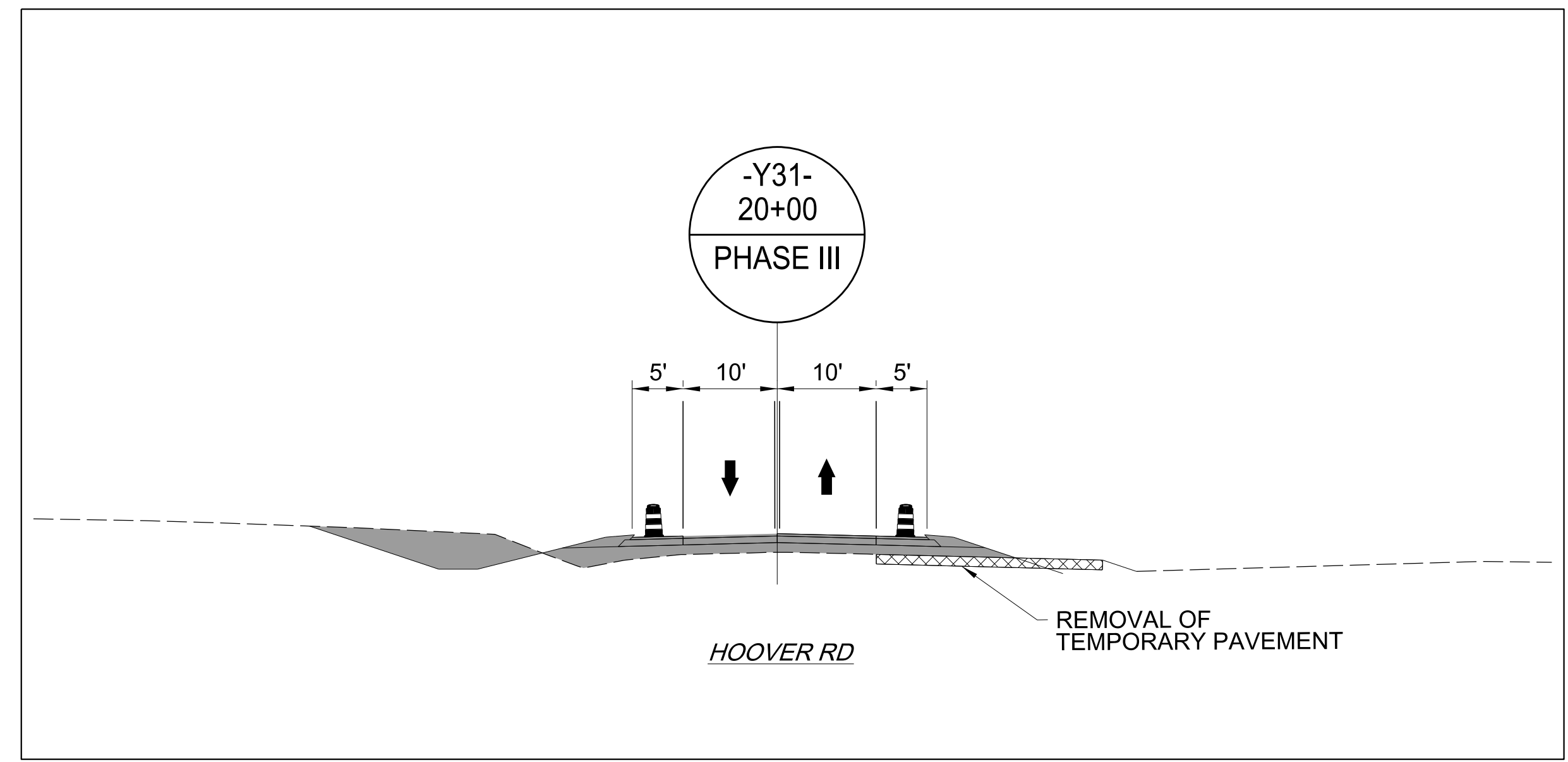
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_30\_AREA 4\_PHASE 2.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



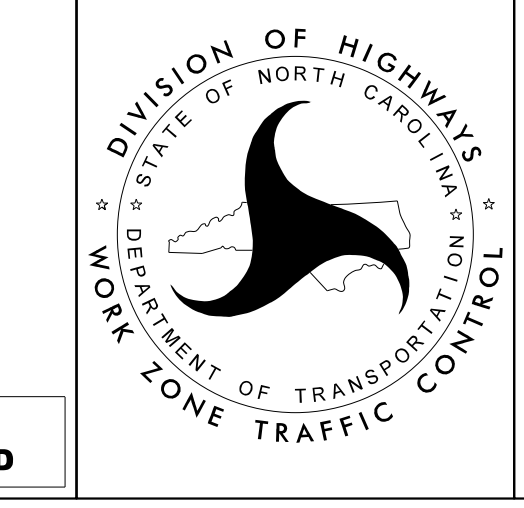
**HOOVER RD -Y31-  
 AREA 4  
 PHASE II**



9/13/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_31\AREA 4\_PHASE 3.dgn  
angood

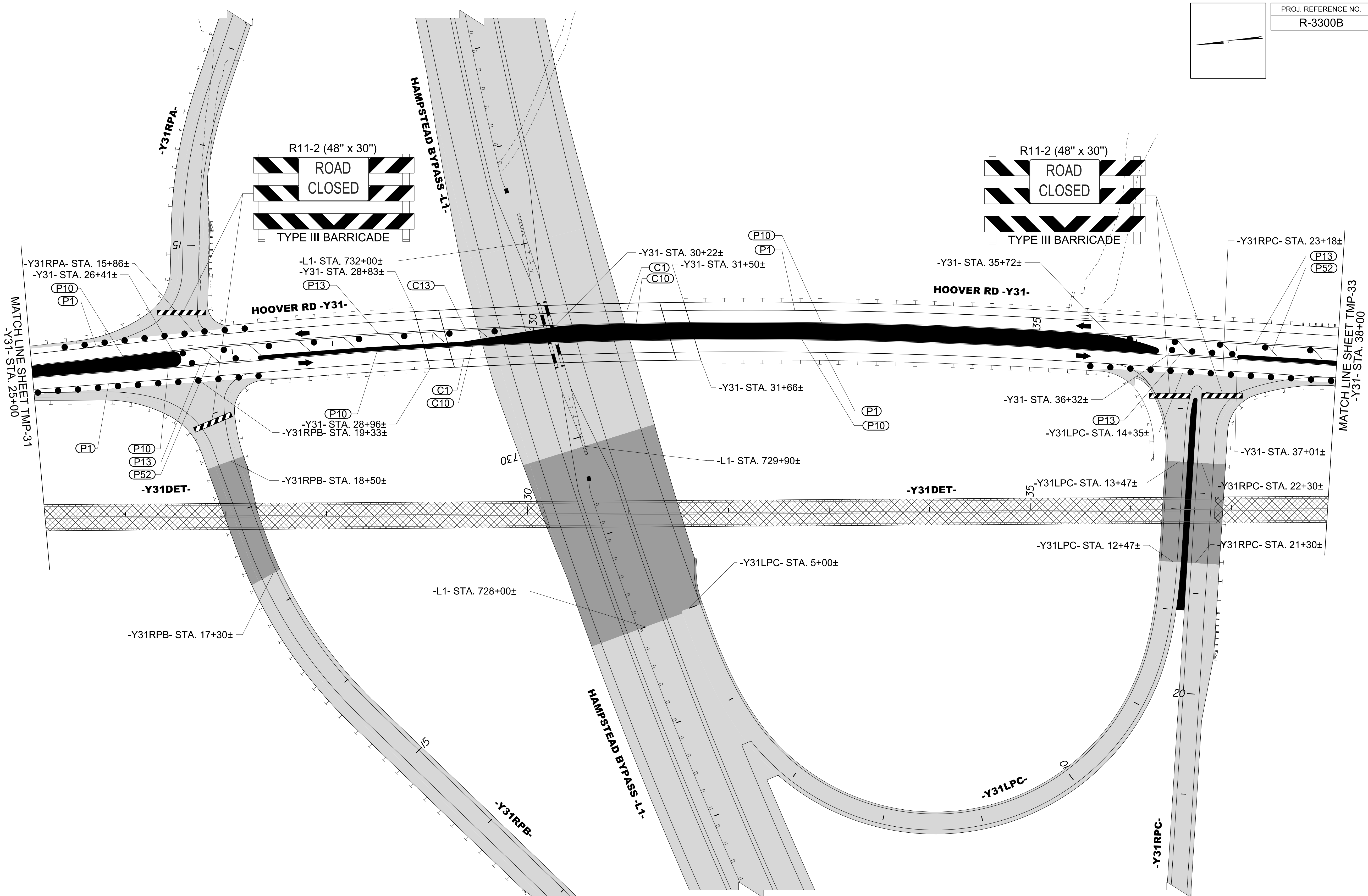
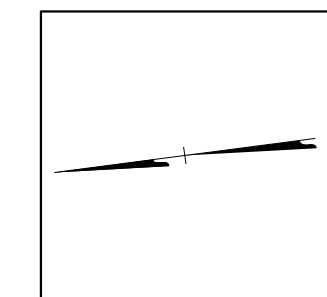
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 19862  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



**HOOVER RD -Y31-  
 AREA 4  
 PHASE III**

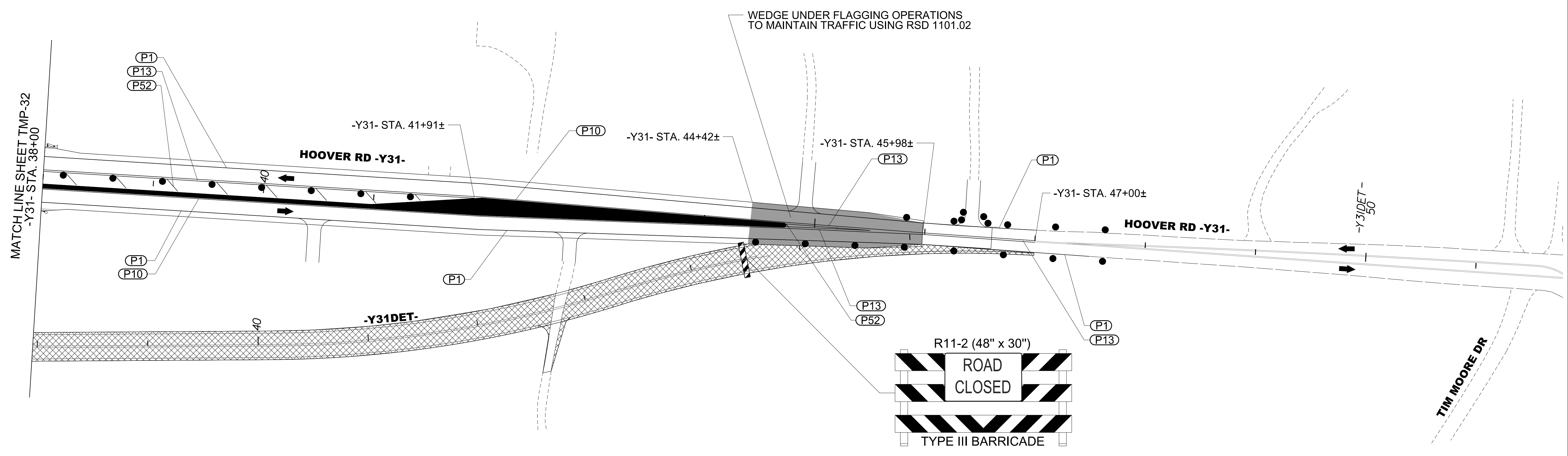
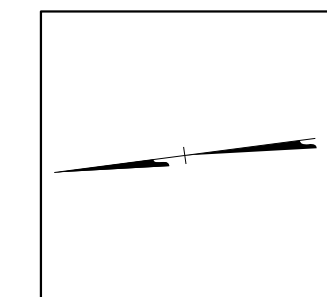




10/27/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_32.AREA\_4\_PHASE\_3.dgn  
 angood

725

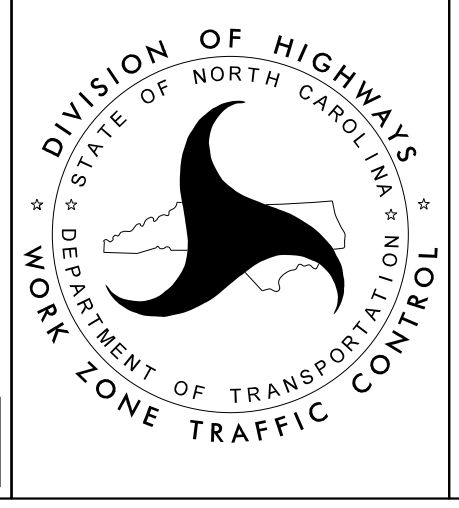
<p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. 919.851.6866        Fax. 919.851.7024        www.stantec.com        License No. F-0672</p>	<p>DocuSigned by:        J.W. Williams        19862        W. WOOLARD, R.        10/27/2021</p> <p><b>DOCUMENT NOT CONSIDERED FINAL        UNLESS ALL SIGNATURES COMPLETED</b></p>	<p>DIVISION OF HIGHWAYS        STATE OF NORTH CAROLINA        DEPARTMENT OF TRANSPORTATION        WORK ZONE TRAFFIC CONTROL</p>	<p><b>HOOVER RD -Y31-        AREA 4        PHASE III</b></p>
---	--	---	--



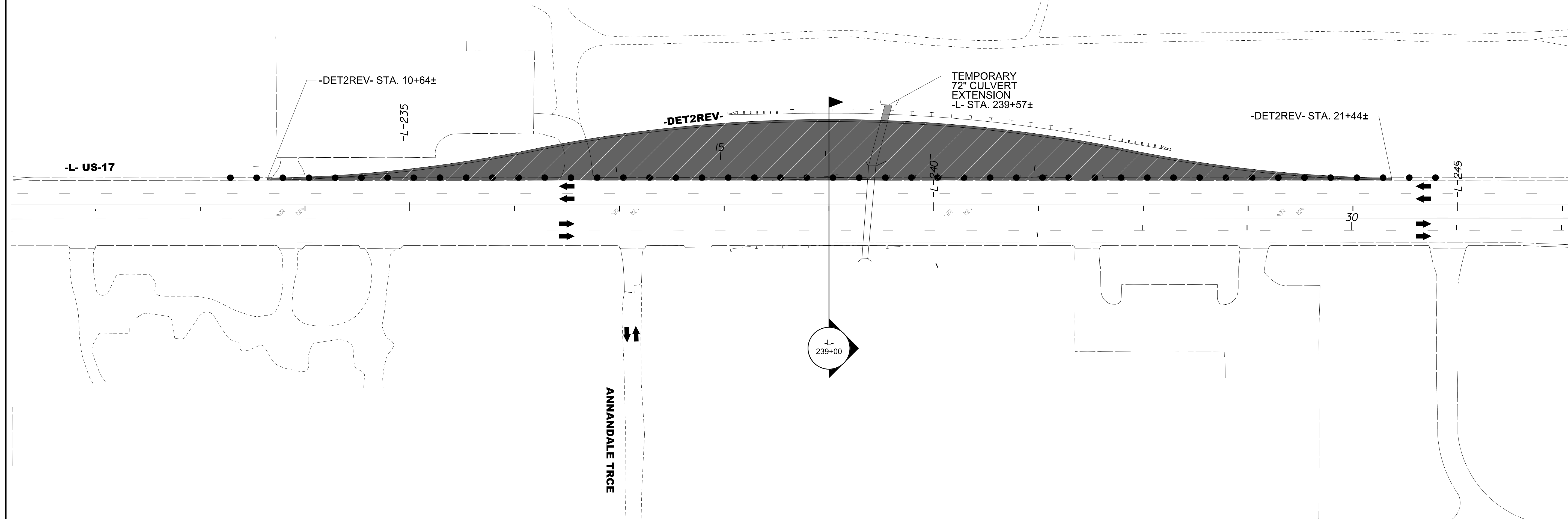
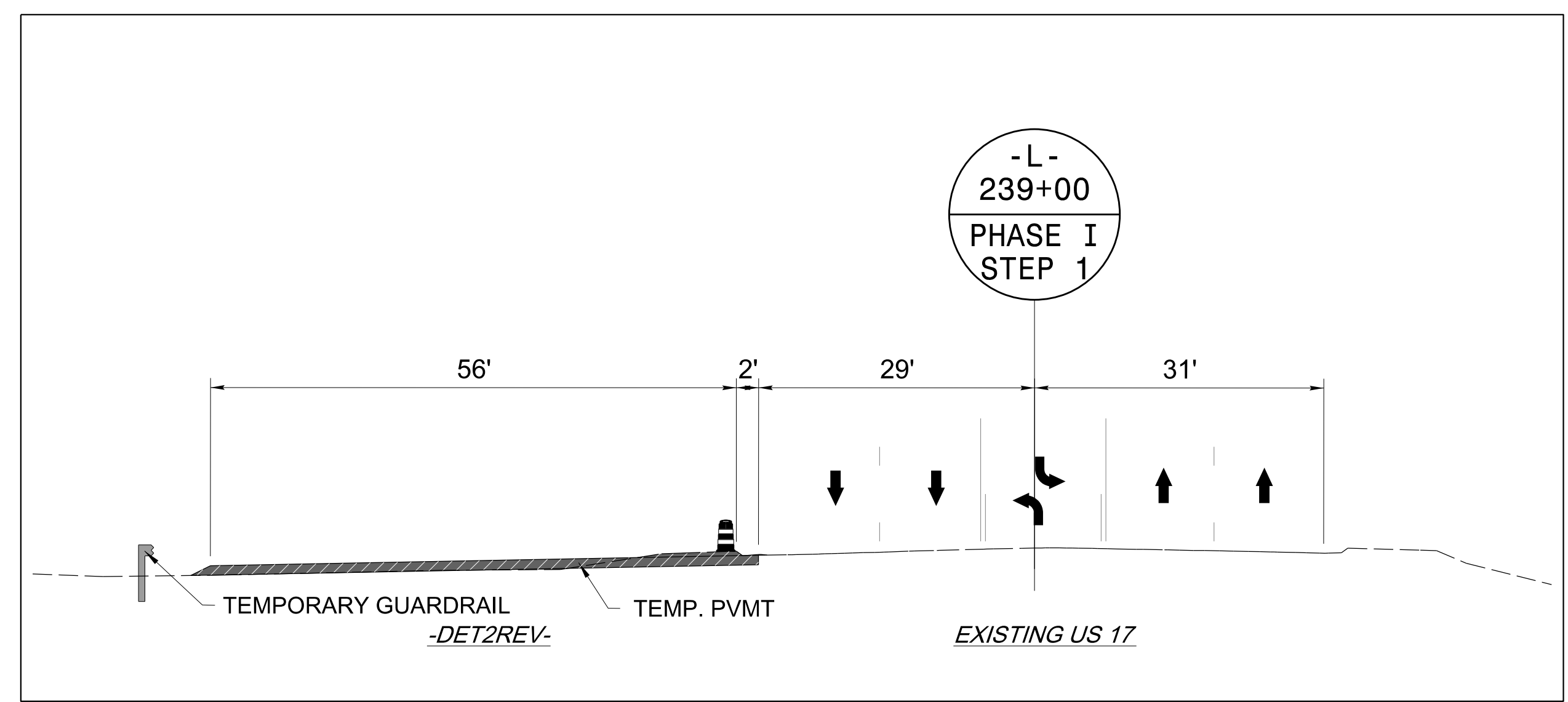
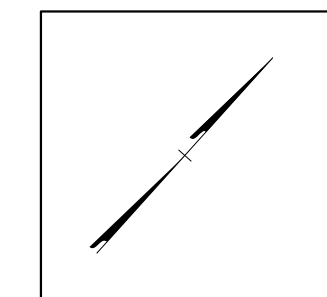
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_33\_AREA\_4\_PHASE\_3.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



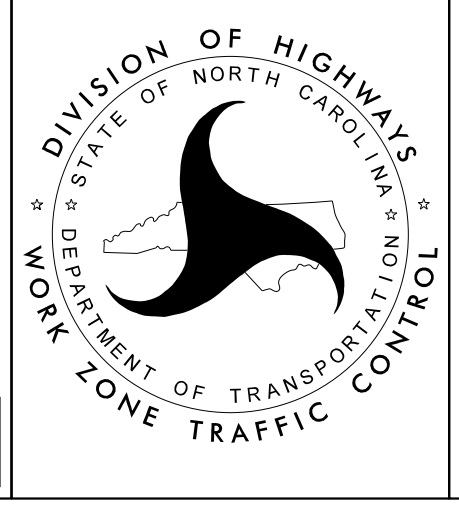
HOOVER RD -Y31-  
 AREA 4  
 PHASE III



9/24/2021  
 L:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_34\_AREA 5\_PHASE I\_STEP 1.dgn  
 angood

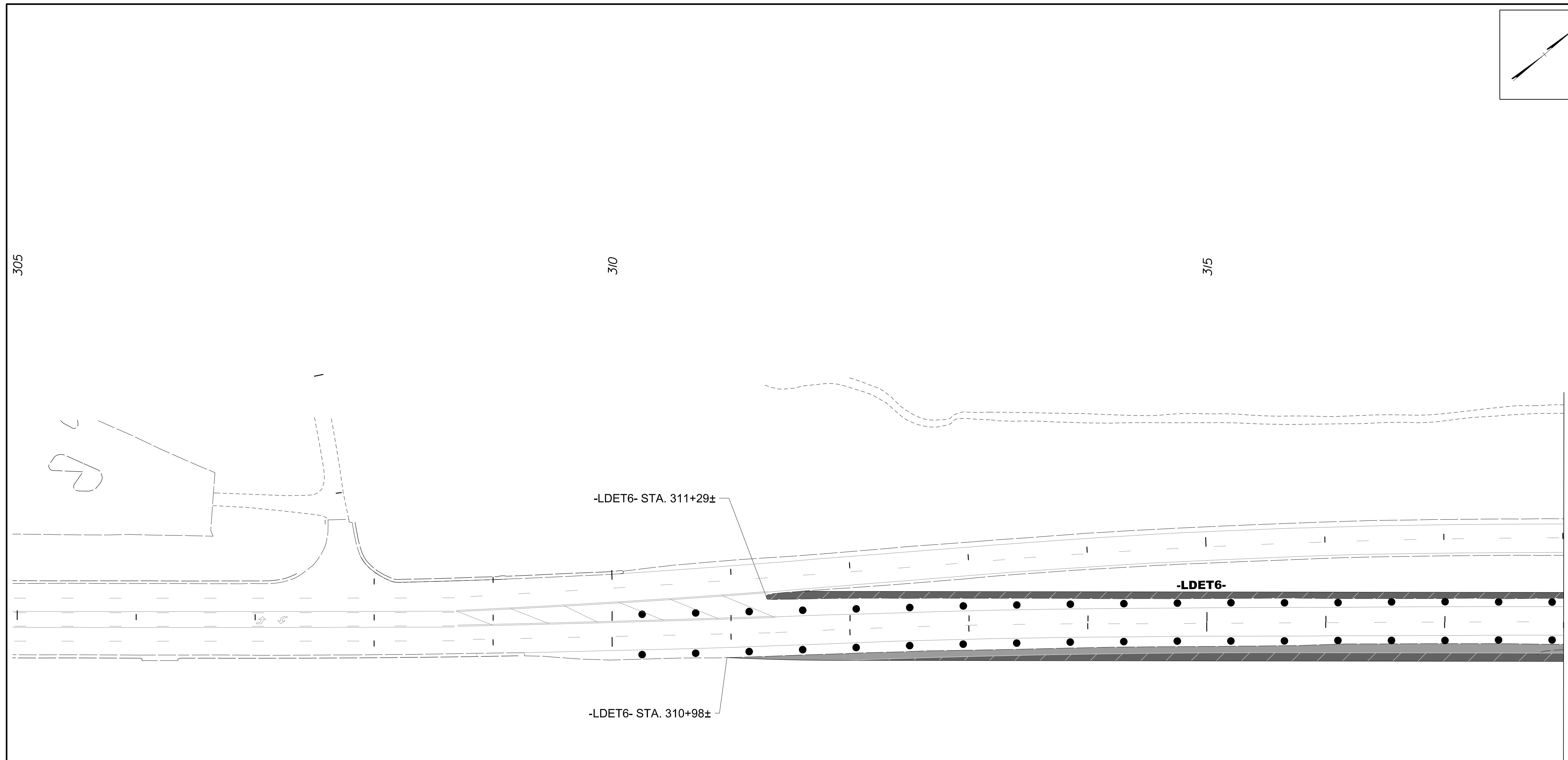
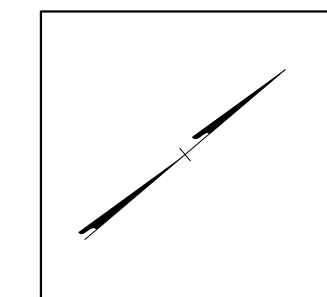
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 19862  
 ENGINEER  
 NORTH CAROLINA  
 PROFESSIONAL SEAL  
 J. W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 1

PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-35

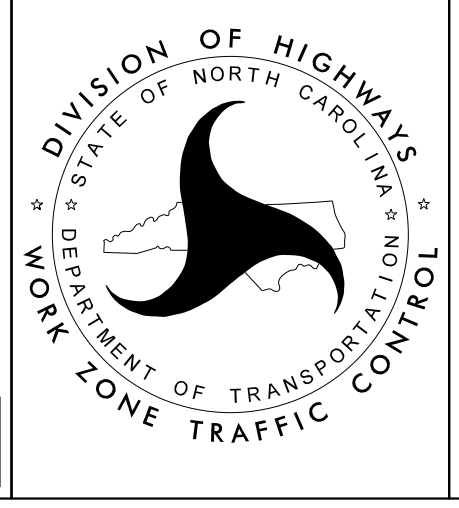


9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_35\_AREA\_5\_PHASE\_1\_STEP\_1.dgn  
 angood

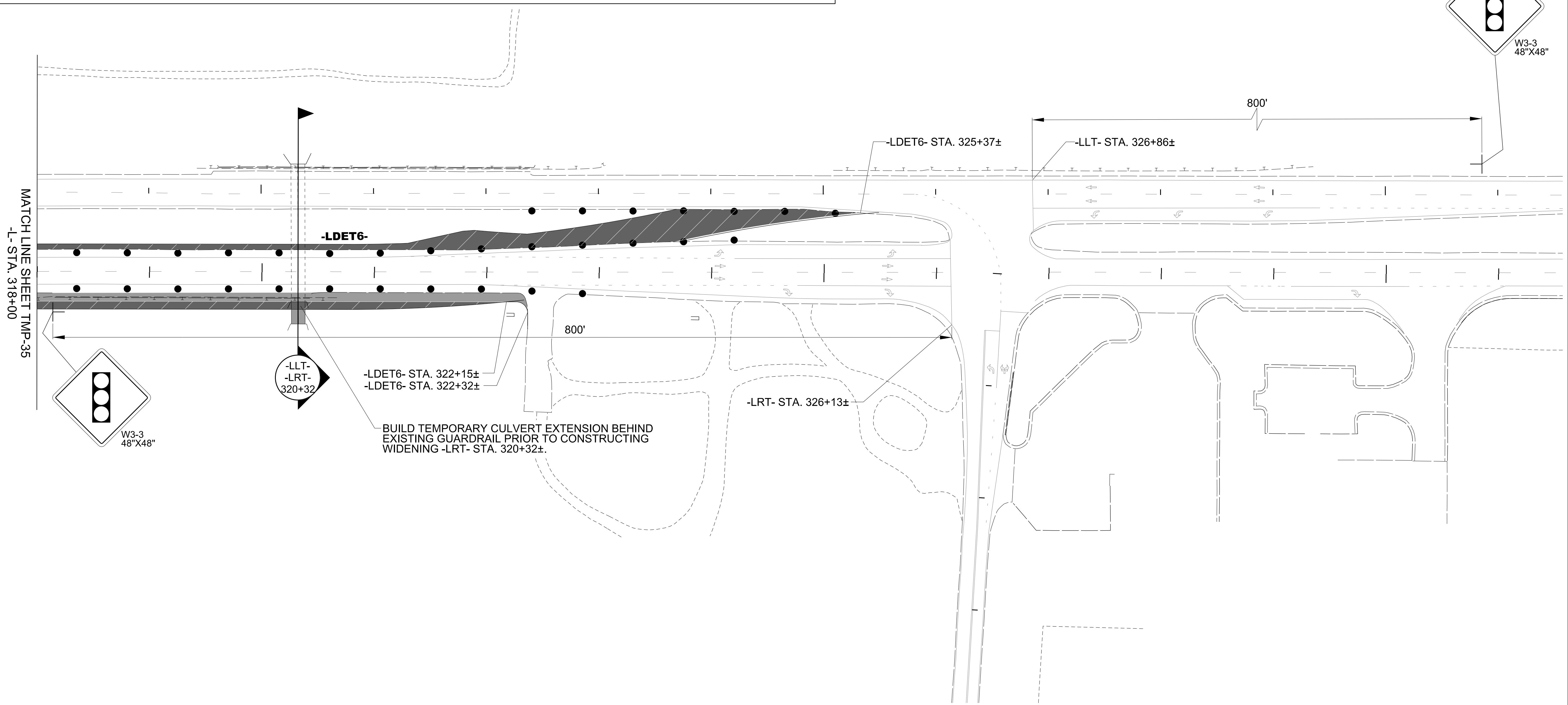
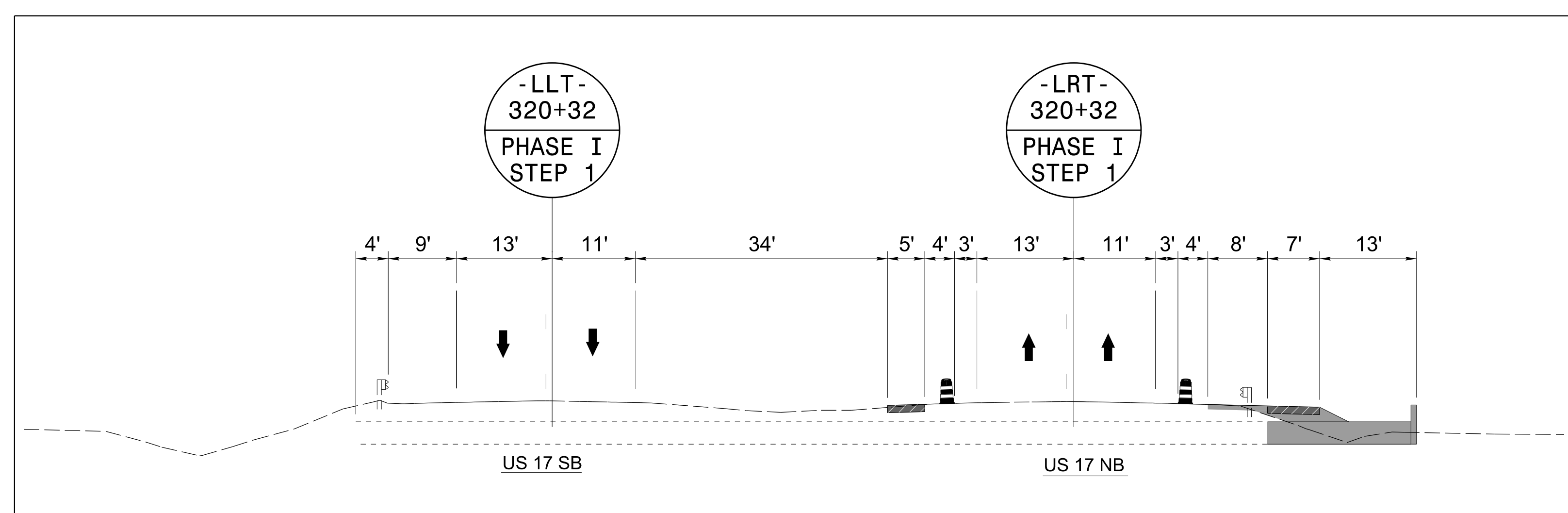
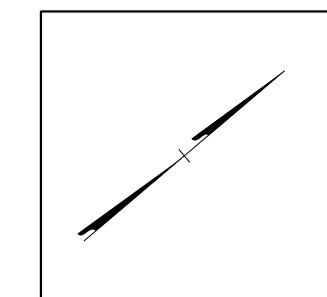
Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
*J.W. Woolard*  
 10/27/2021

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



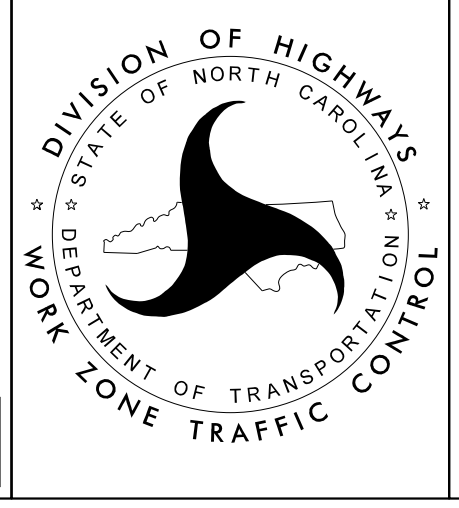
-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 1



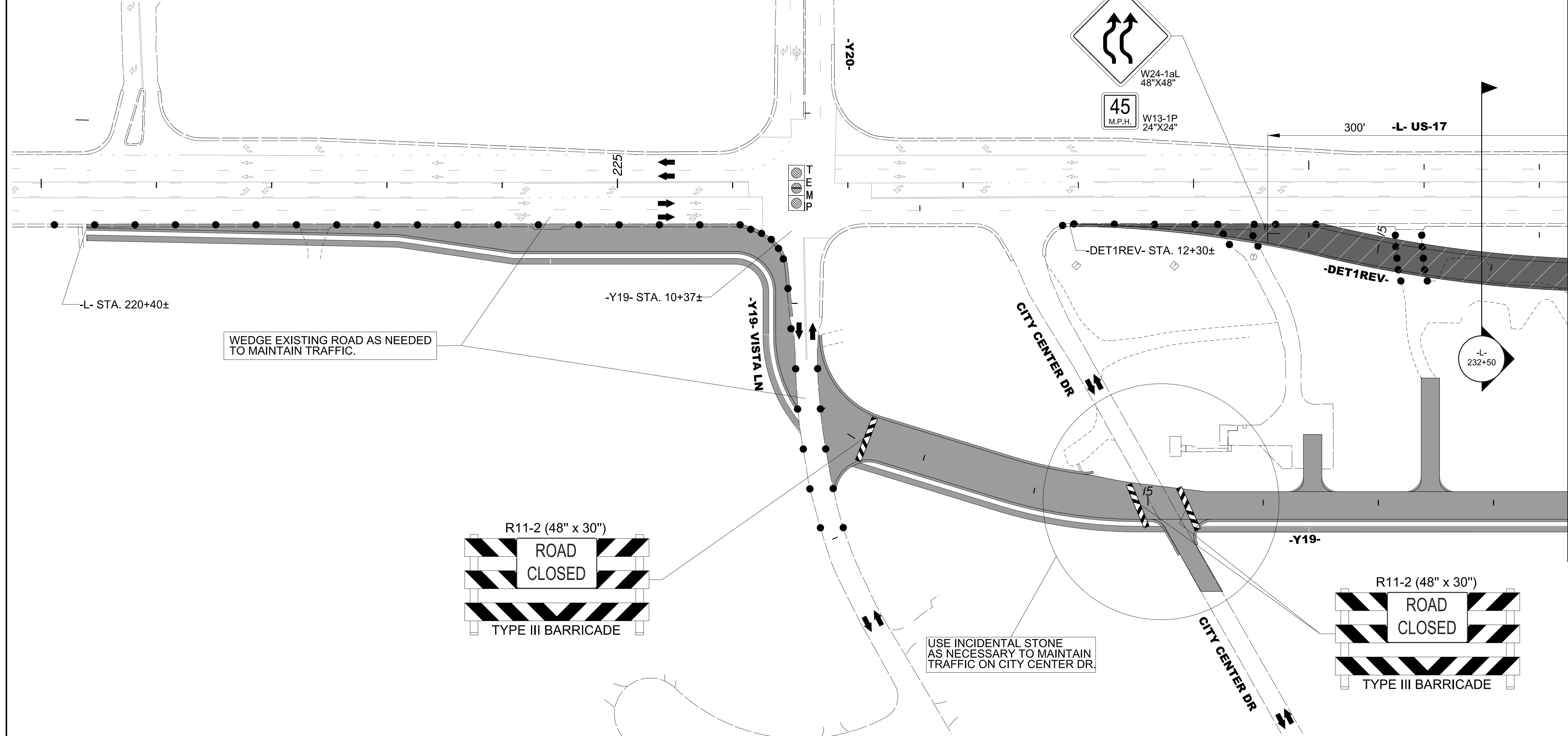
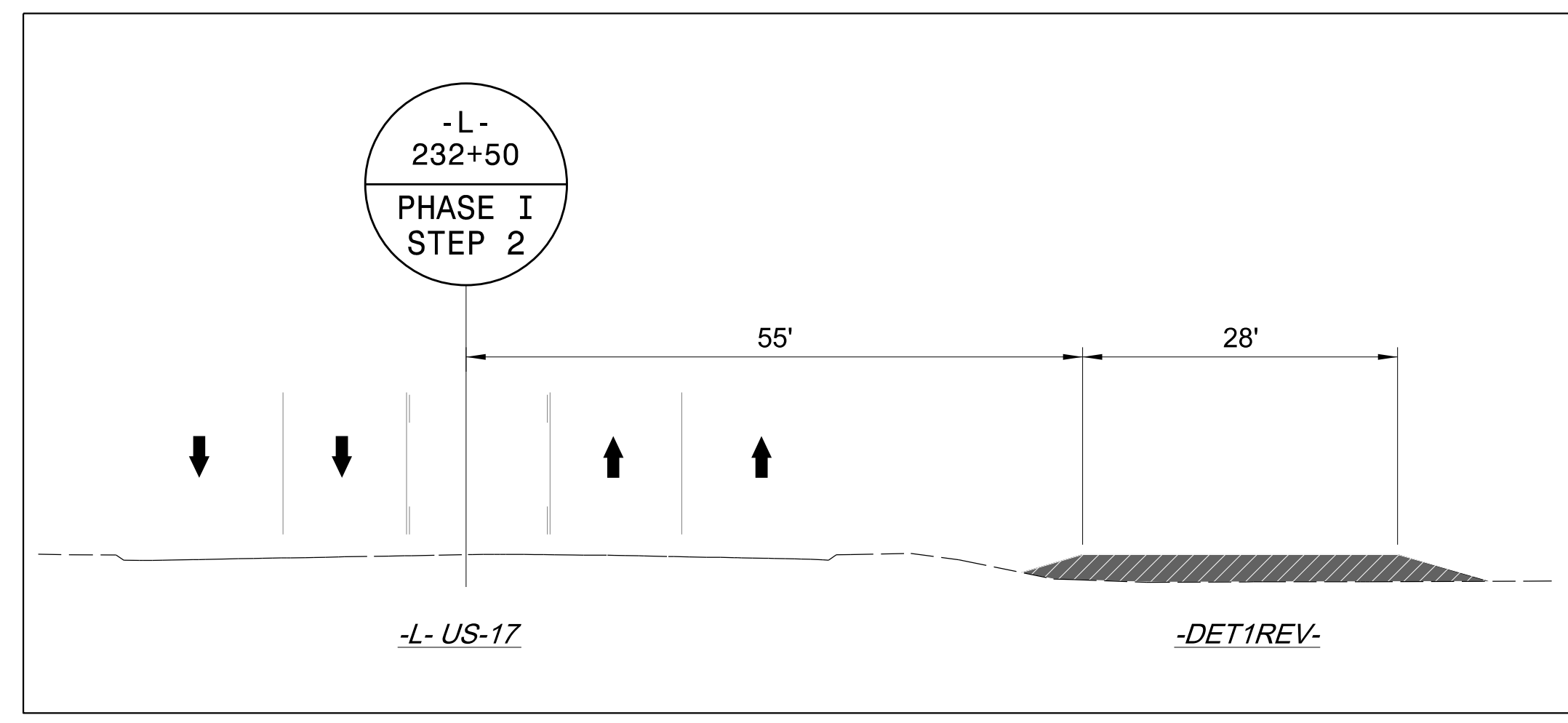
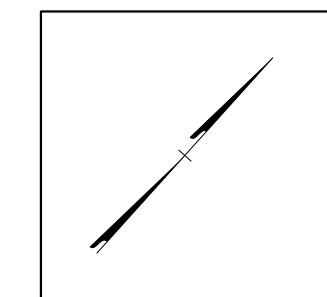
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_36\AREA 5\_PHASE I\_STEP 1.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

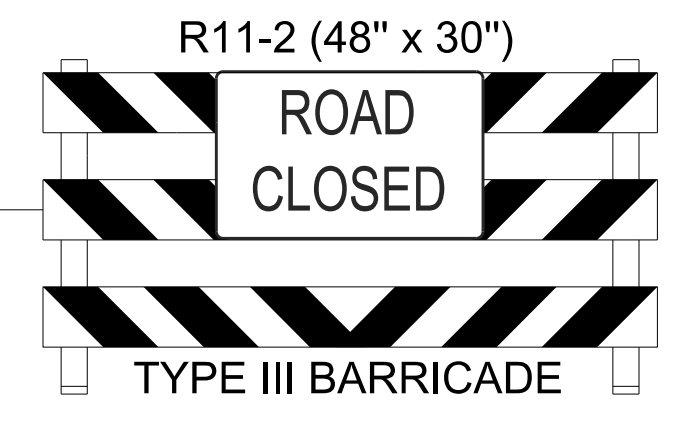
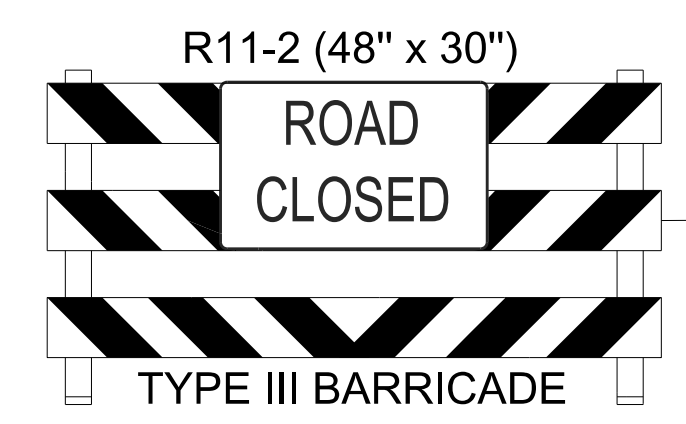
10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 1

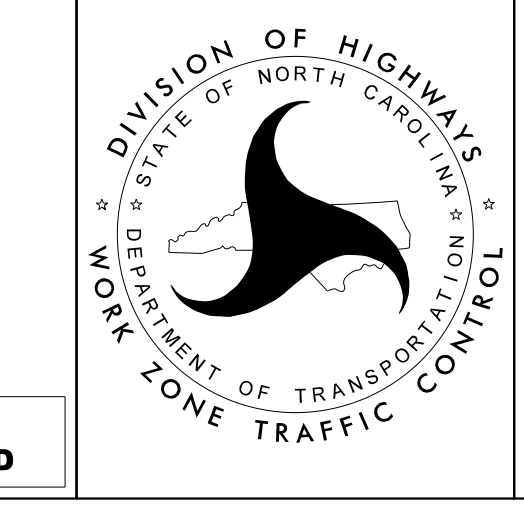


WEDGE EXISTING ROAD AS NEEDED TO MAINTAIN TRAFFIC.



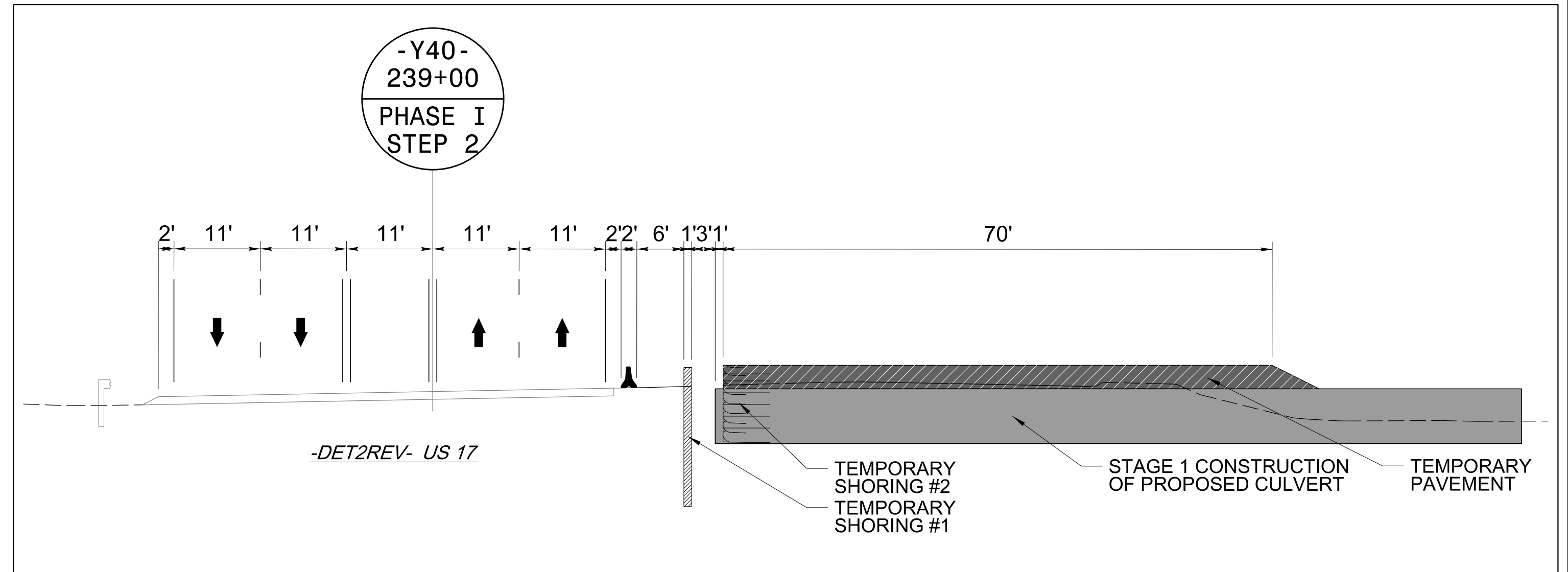
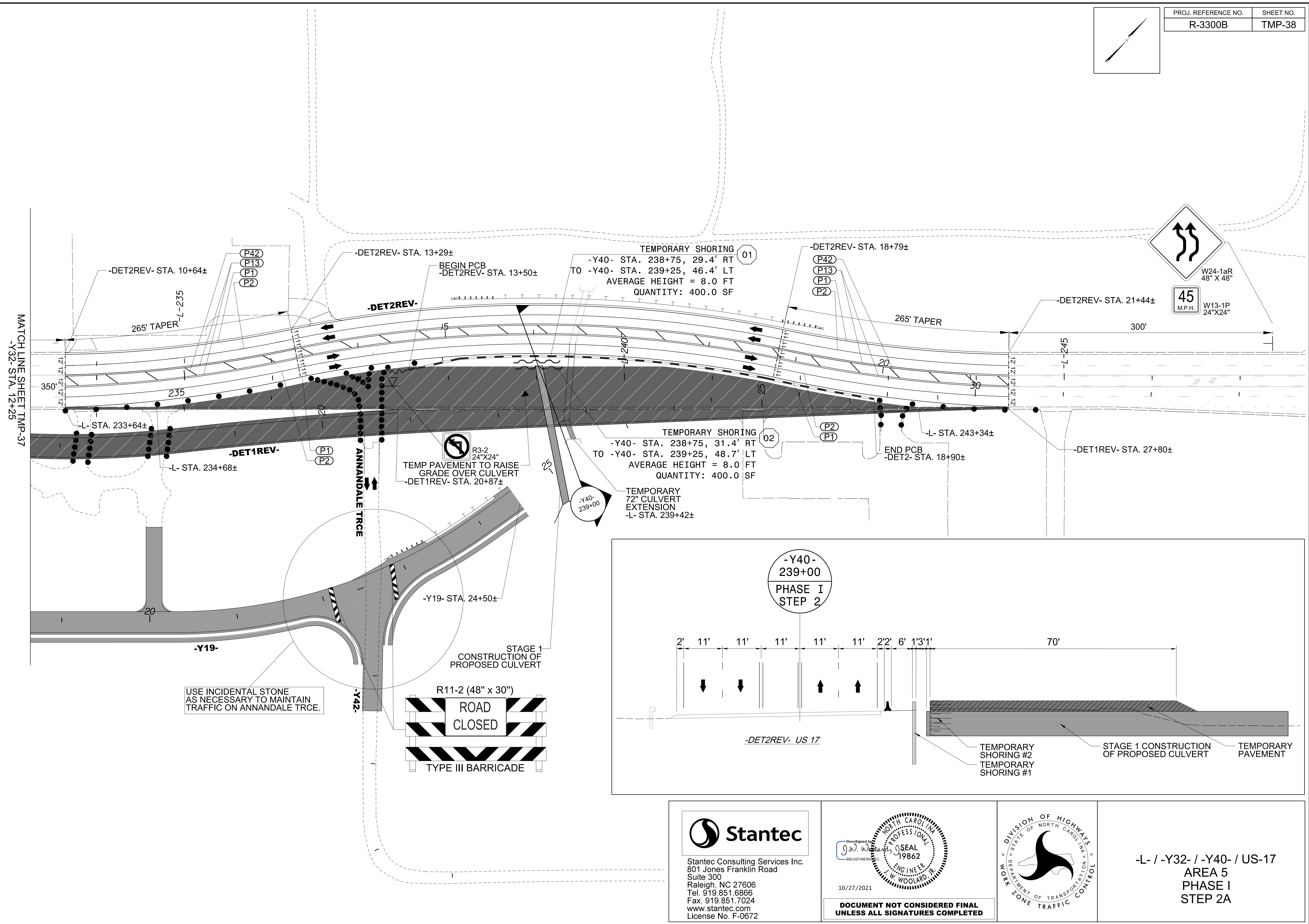
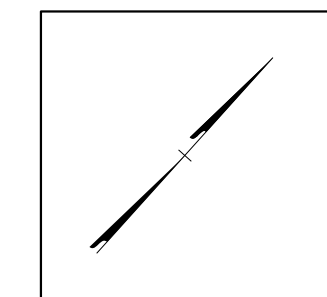
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 19862  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 2A

10/1/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_37\_AREA 5\_PHASE I\_STEP 2.dgn  
 angood



10/1/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\TMP\_38\AREA 5\PHASE 1\_STEP 2.dgn  
 angood

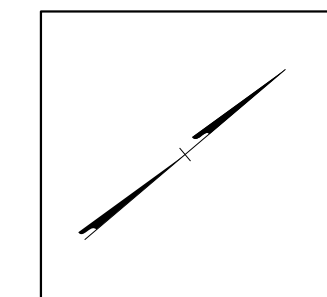
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 19862  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021

DIVISION OF HIGHWAYS  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 2A

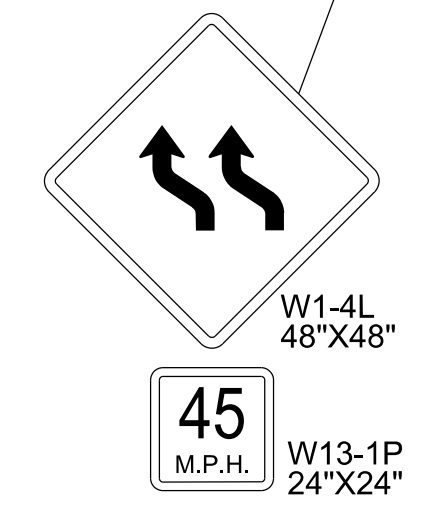
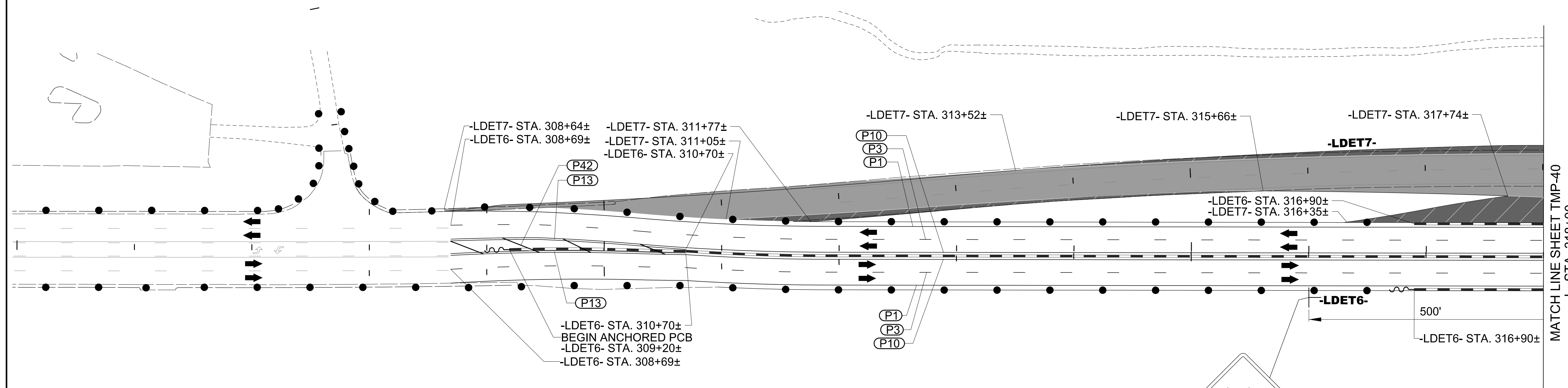
DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



305

310

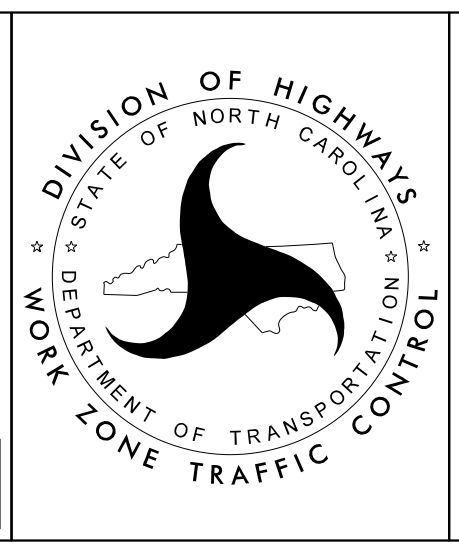
315



10/28/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_39\_AREA 5\_PHASE 1\_STEP 2.dgn  
 angood

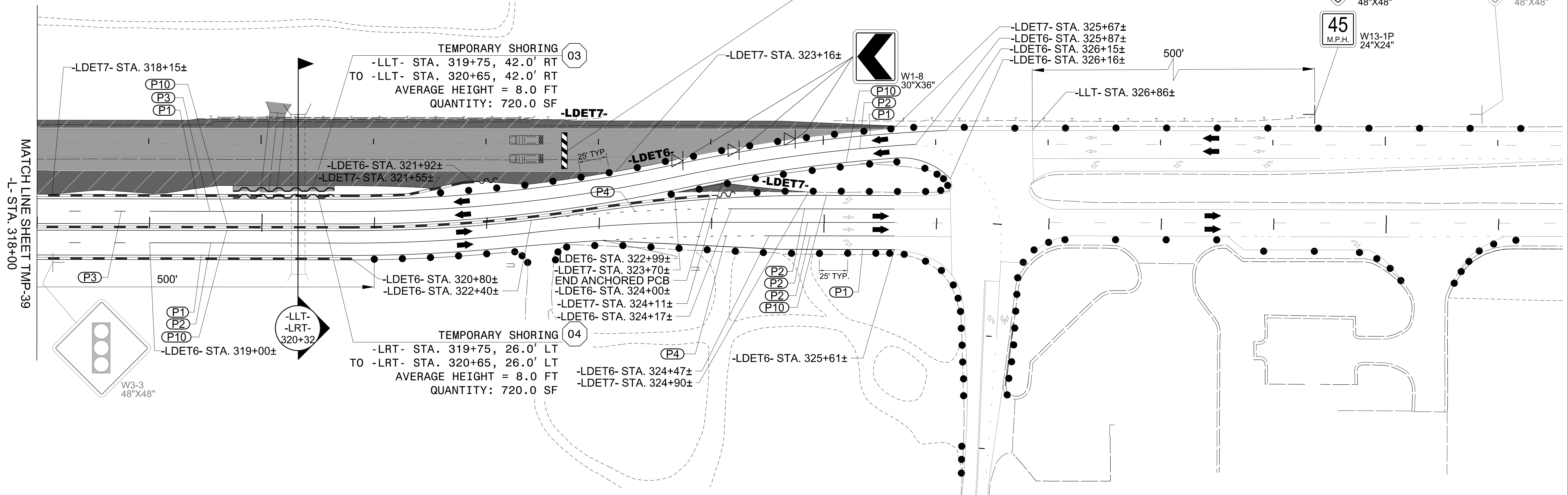
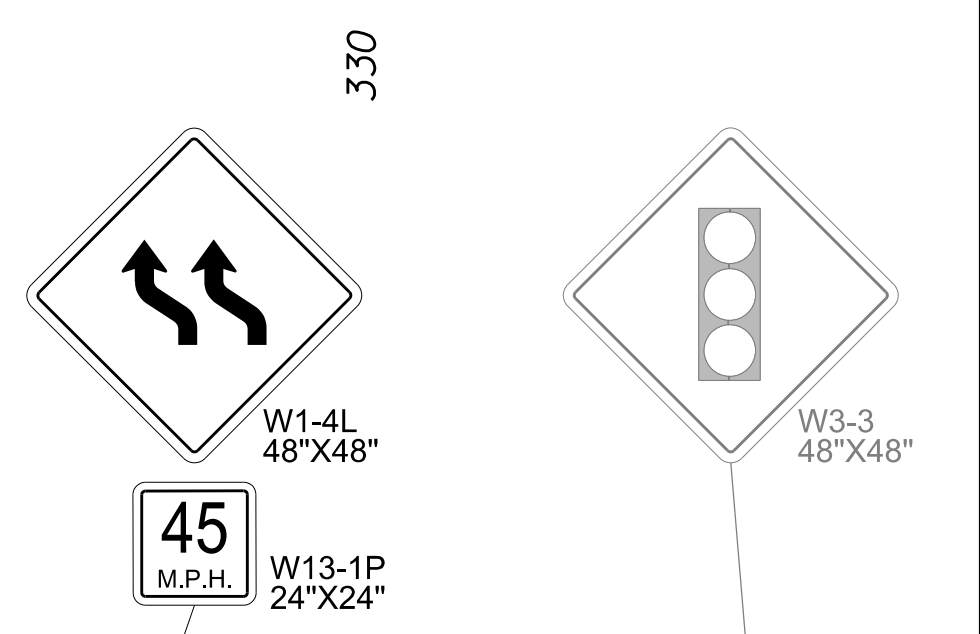
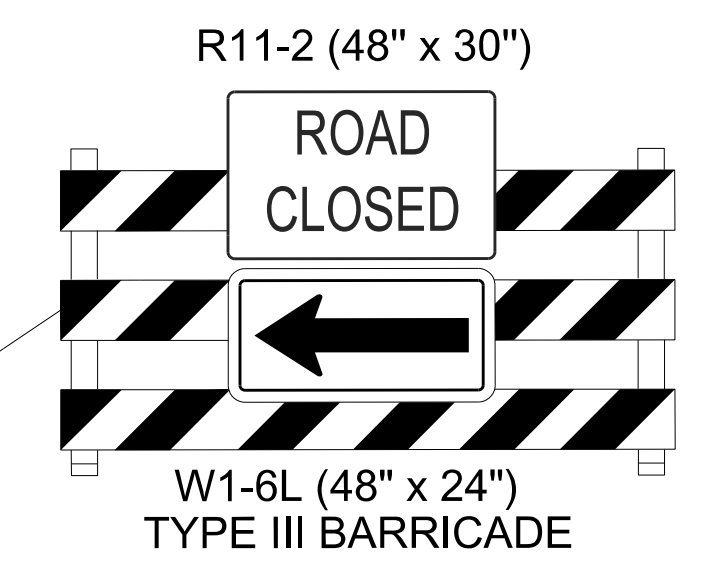
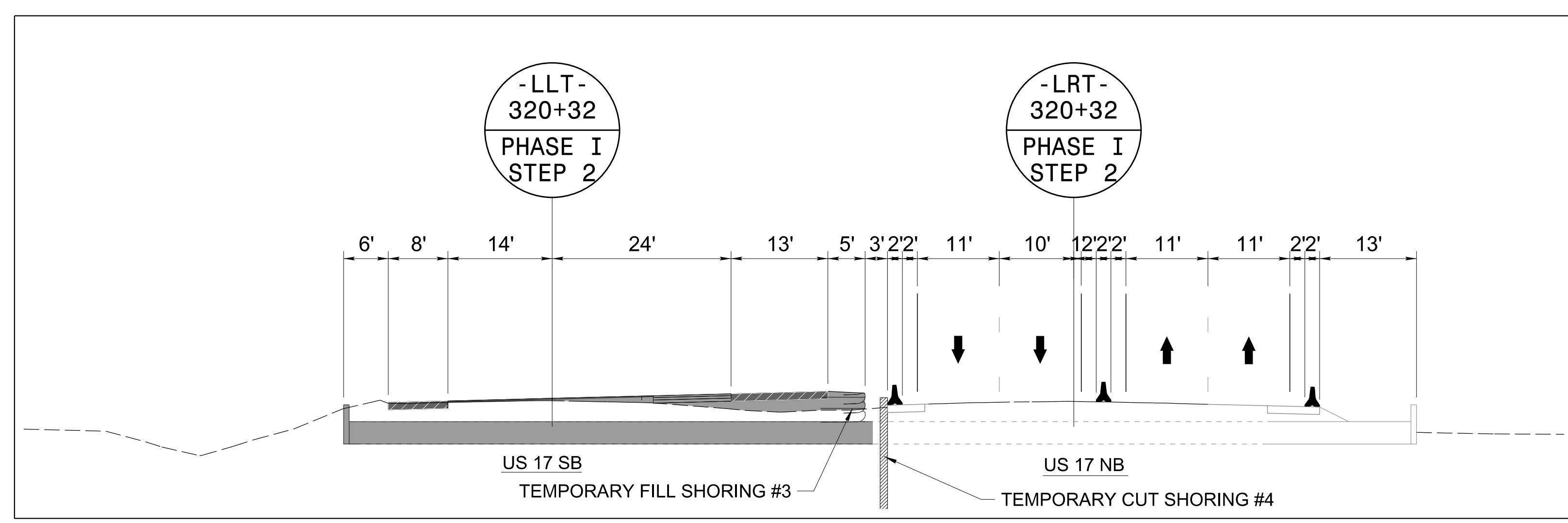
Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/28/2021  
 DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 2B

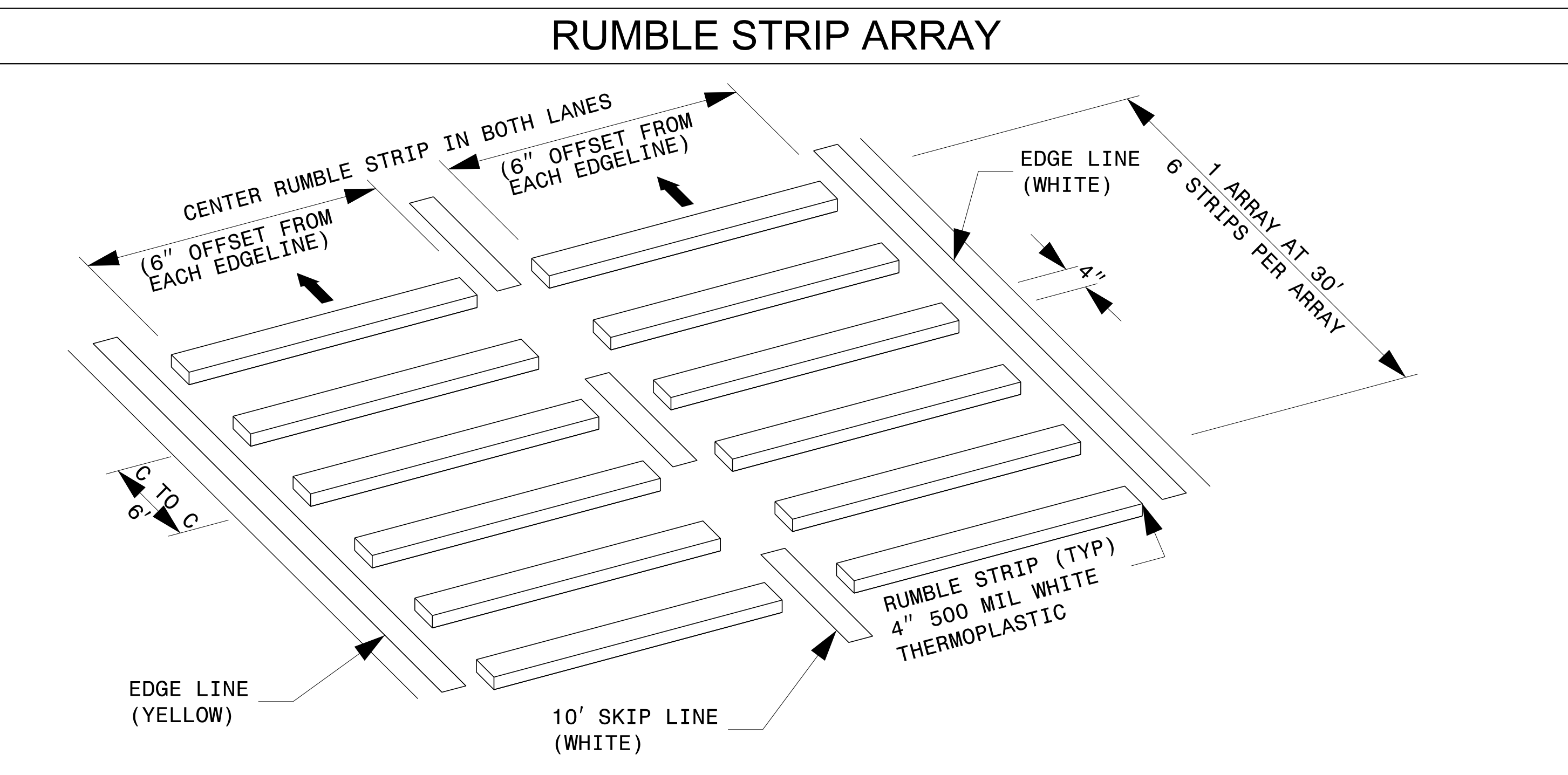
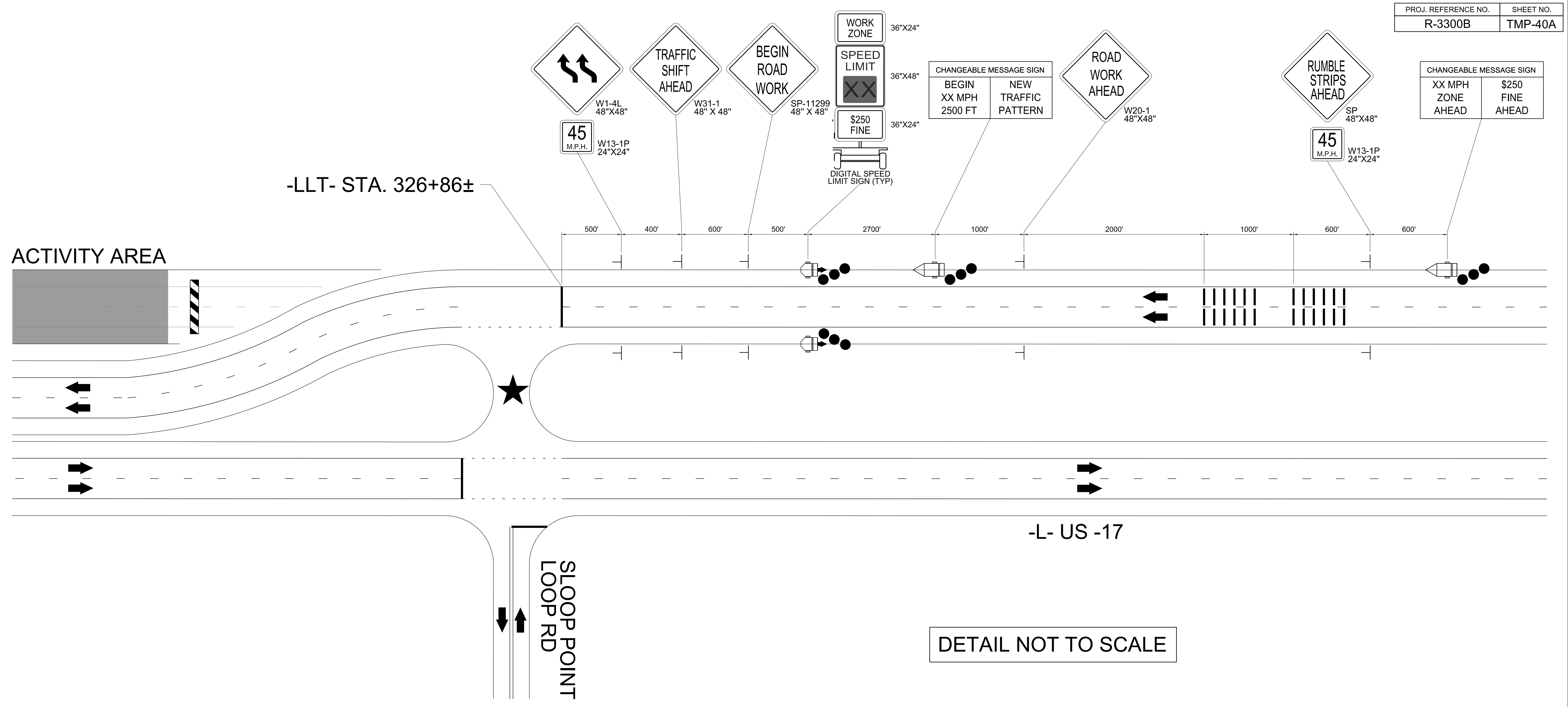




SEE TMP-40A FOR US 17 SB  
ADVANCE WARNING  
SIGN AND DEVICES,  
RUMBLE STRIP DETAIL

10/28/2021  
L:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_40\AREA 5\PHASE I\STEP 2.dgn  
angood

<p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. 919.851.6866 Fax. 919.851.7024 www.stantec.com License No. F-0672</p>	<p>10/28/2021</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL</p>	<p>-L- / -Y32- / -Y40- / US-17 AREA 5 PHASE I STEP 2B</p>
--	-------------------	--	---



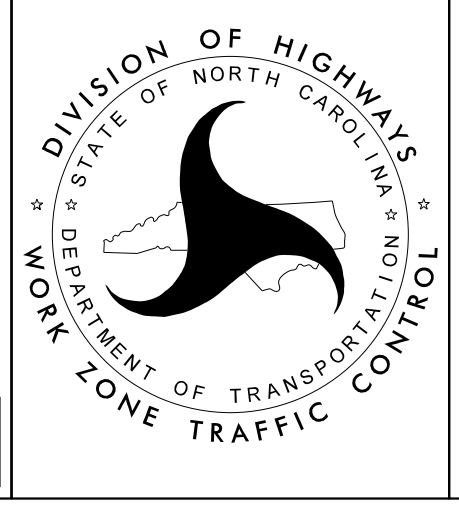
**Stantec**

Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

DocuSigned by:  
J.W. Woolard  
19862  
10/27/2021

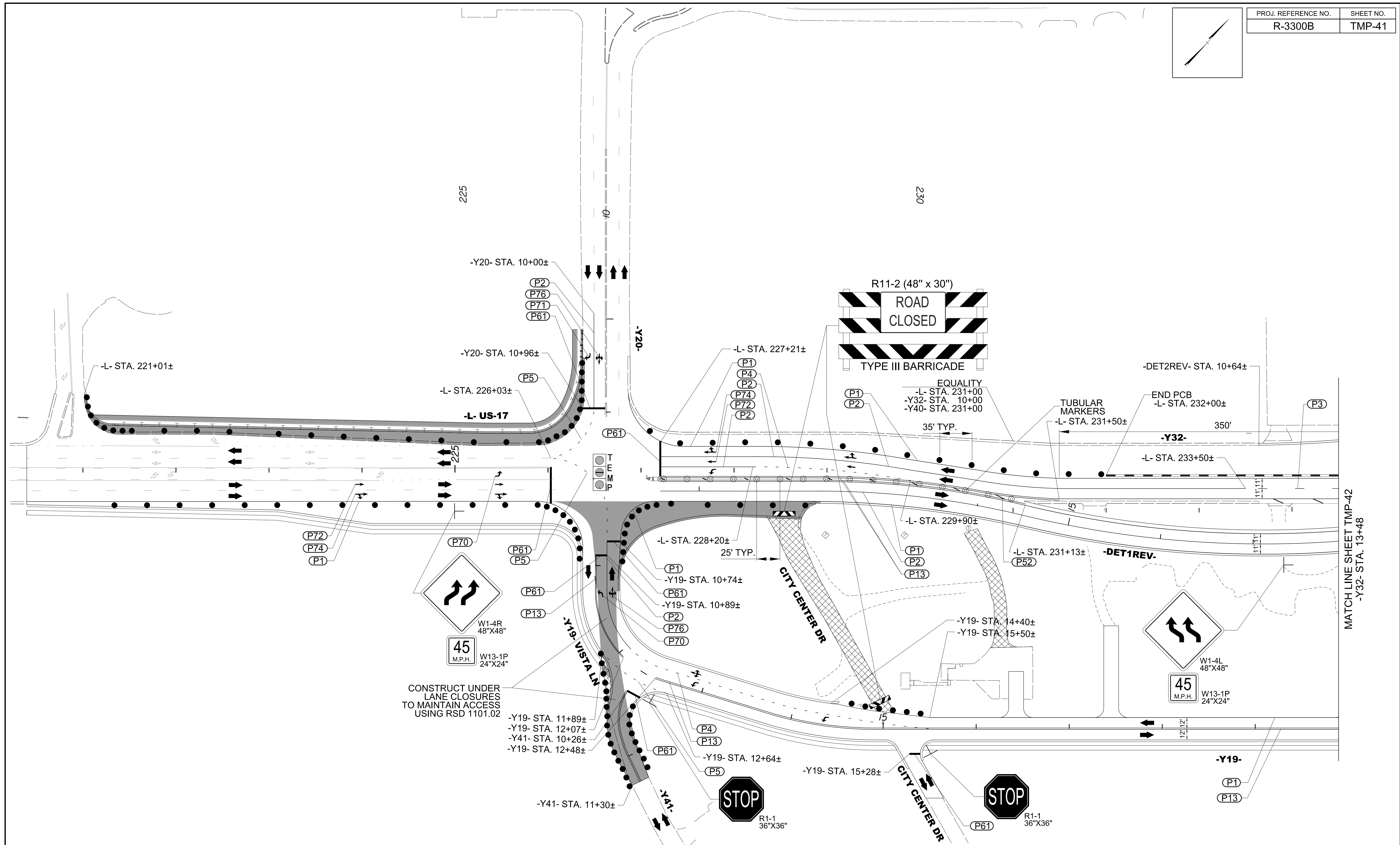
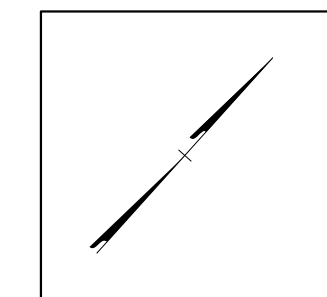
PROFESSIONAL SEAL  
19862  
ENGINEER  
J. W. WOOLARD, P.E.

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



-L- US-17  
ADVANCE WARNING SIGNS,  
VARIABLE SPEED LIMIT  
REDUCTION,  
RUMBLE STRIP DETAIL

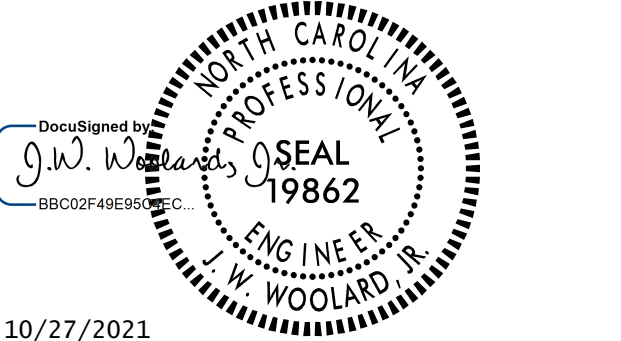
10/27/2021  
L:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_40A\_VSLR\_RUMBLE\_DETAIL.dgn  
angood

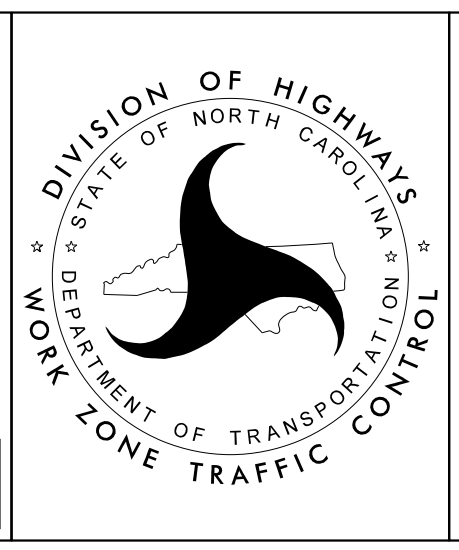


10/1/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_41\AREA 5\_PHASE 1\_STEP 3.dgn  
 angood

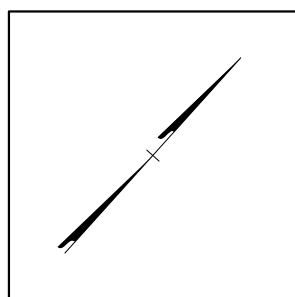
MATCH LINE SHEET TMP-42  
 -Y32- STA. 13+48

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

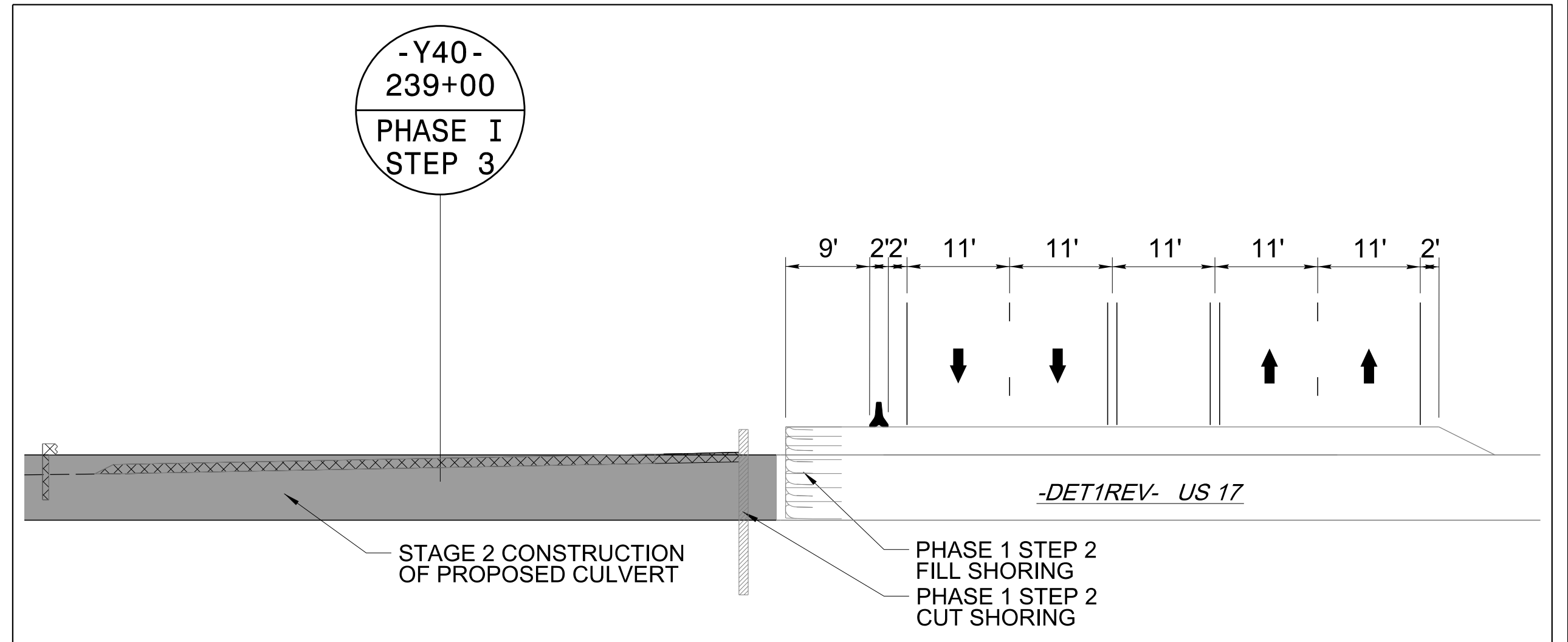
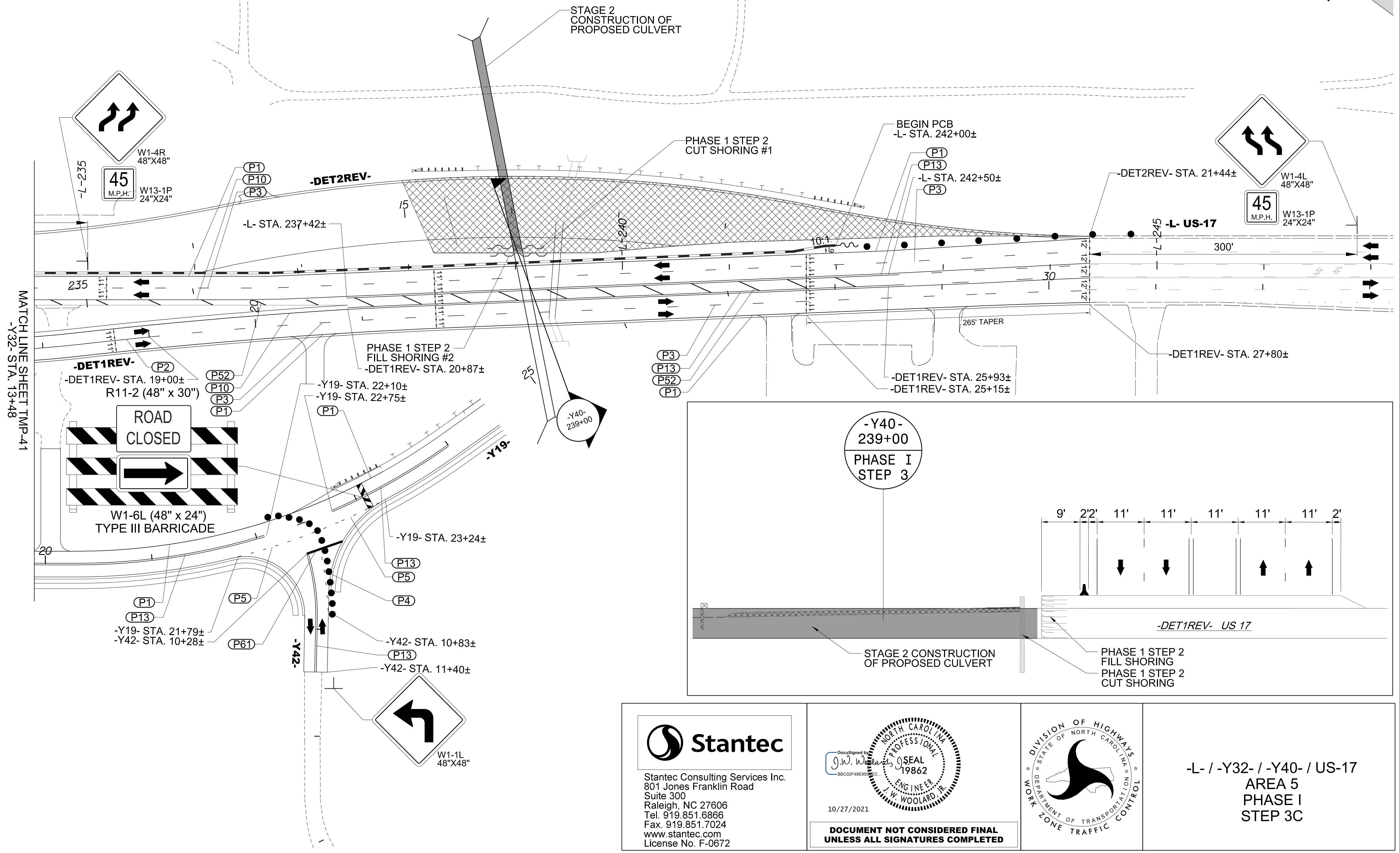
10/27/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 3C



HAMPSTEAD BYPASS - L1 NORTHERN



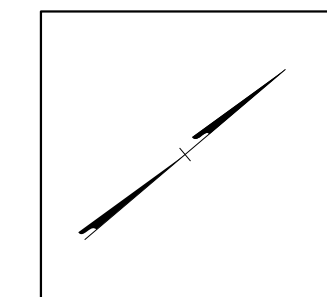
10/1/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\R-3300B\_TMP\_42\_AREA 5\_PHASE 1\_STEP 3.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

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

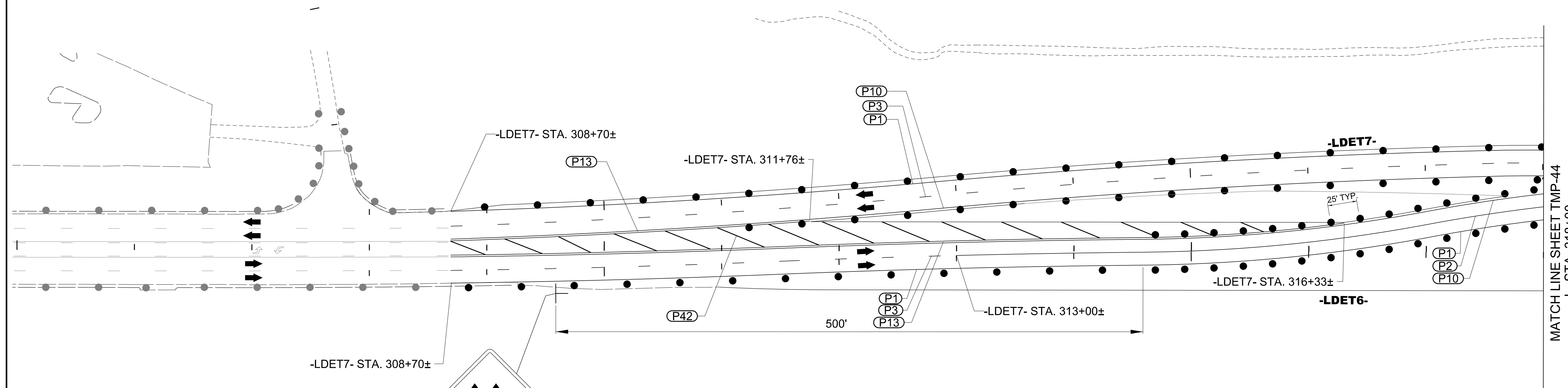
-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 3C



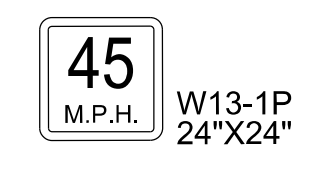
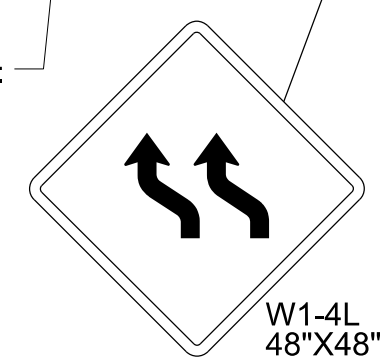
305

310

315



-LDET7- STA. 308+70±



(P42)

500'

(P1)  
(P3)  
(P13)

-LDET7- STA. 313+00±

-LDET7- STA. 316+33±

-LDET6-

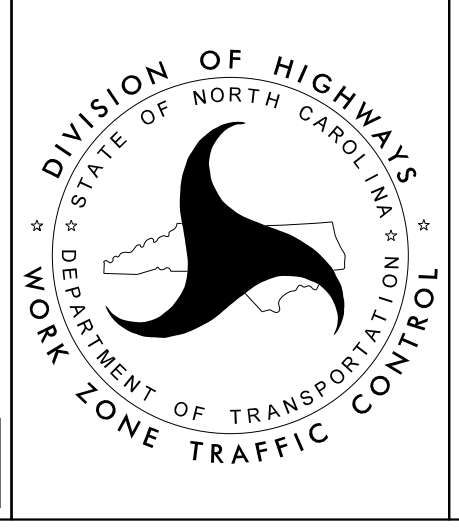
(P1)  
(P2)  
(P10)

MATCH LINE SHEET TMP-44  
-L- STA. 318+00

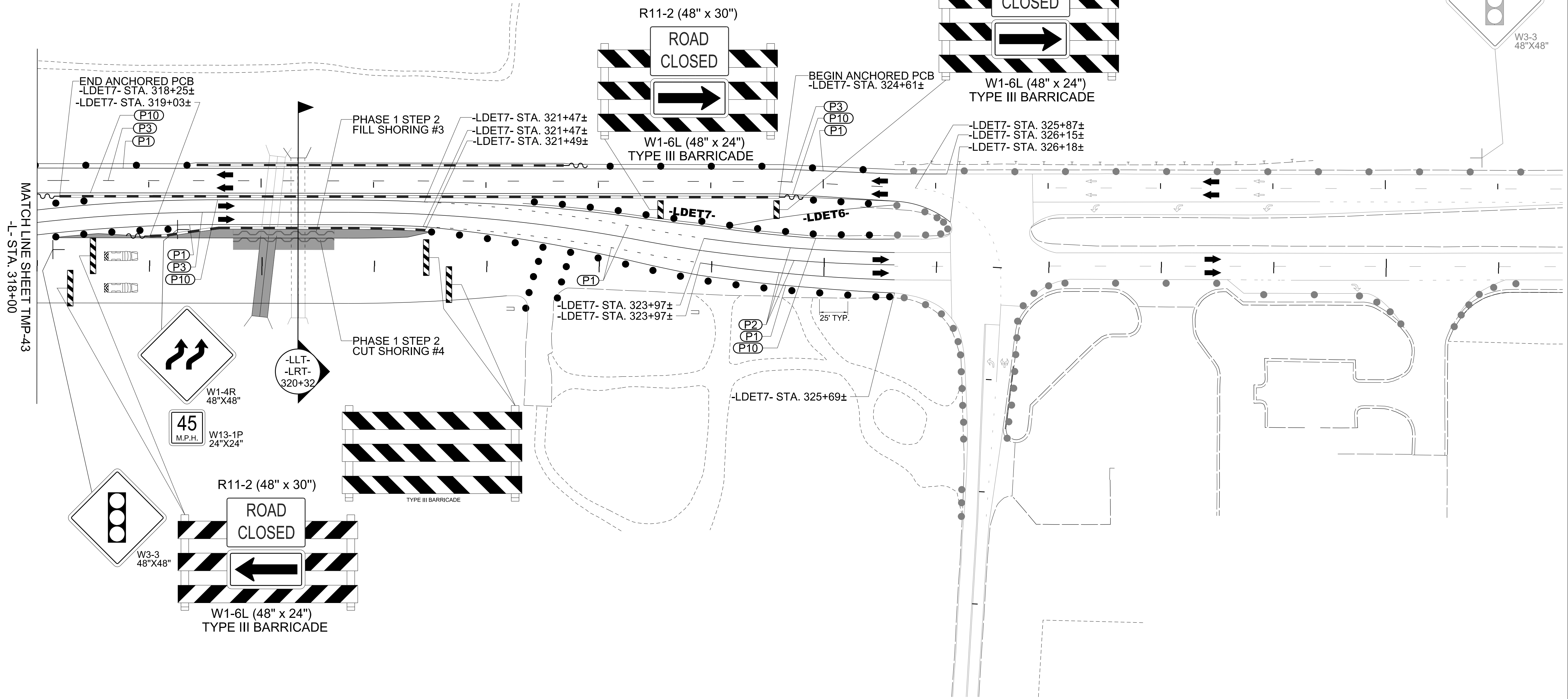
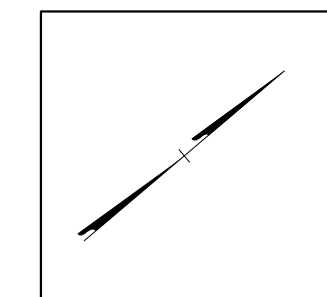
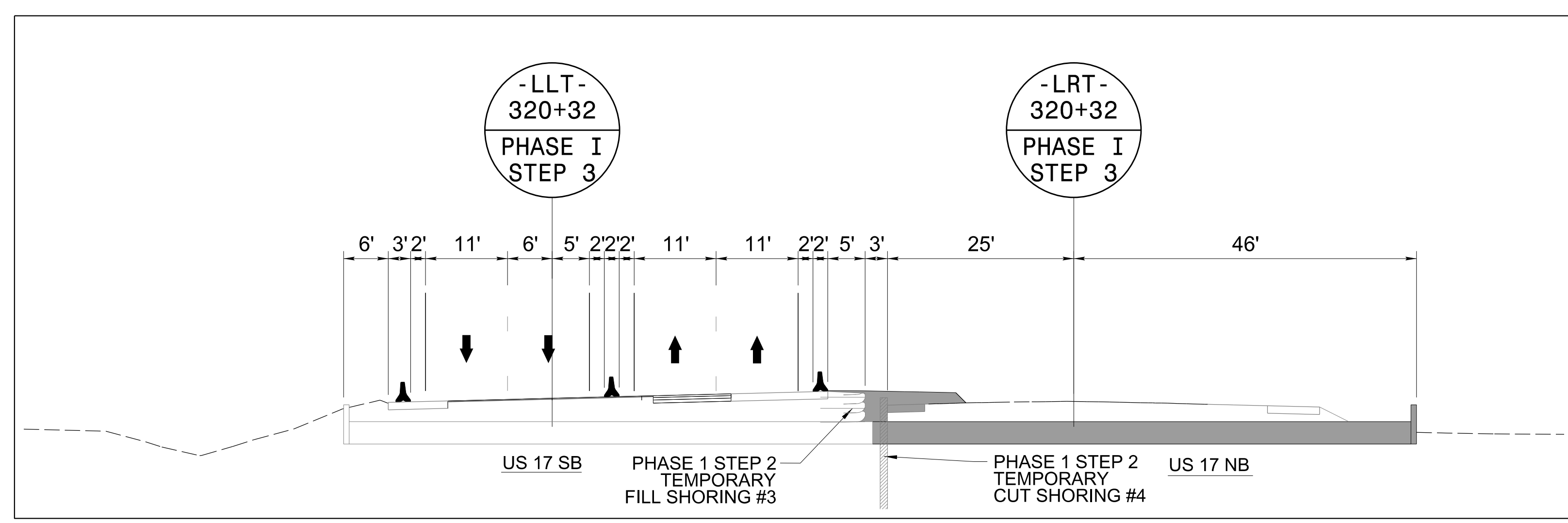
10/1/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_43\_AREA\_5\_PHASE\_1\_STEP\_3.dgn  
angood

**Stantec**  
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

DocuSigned by:  
J.W. Woolard  
10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
AREA 5  
PHASE I  
STEP 3A



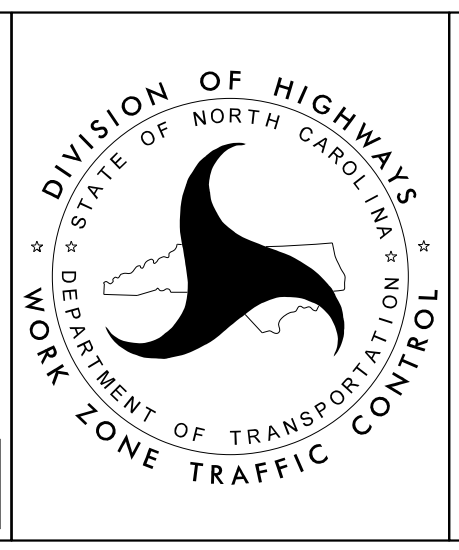
10/28/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\NR-3300B\TMP\_44\_AREA 5\_PHASE I\_STEP 3.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

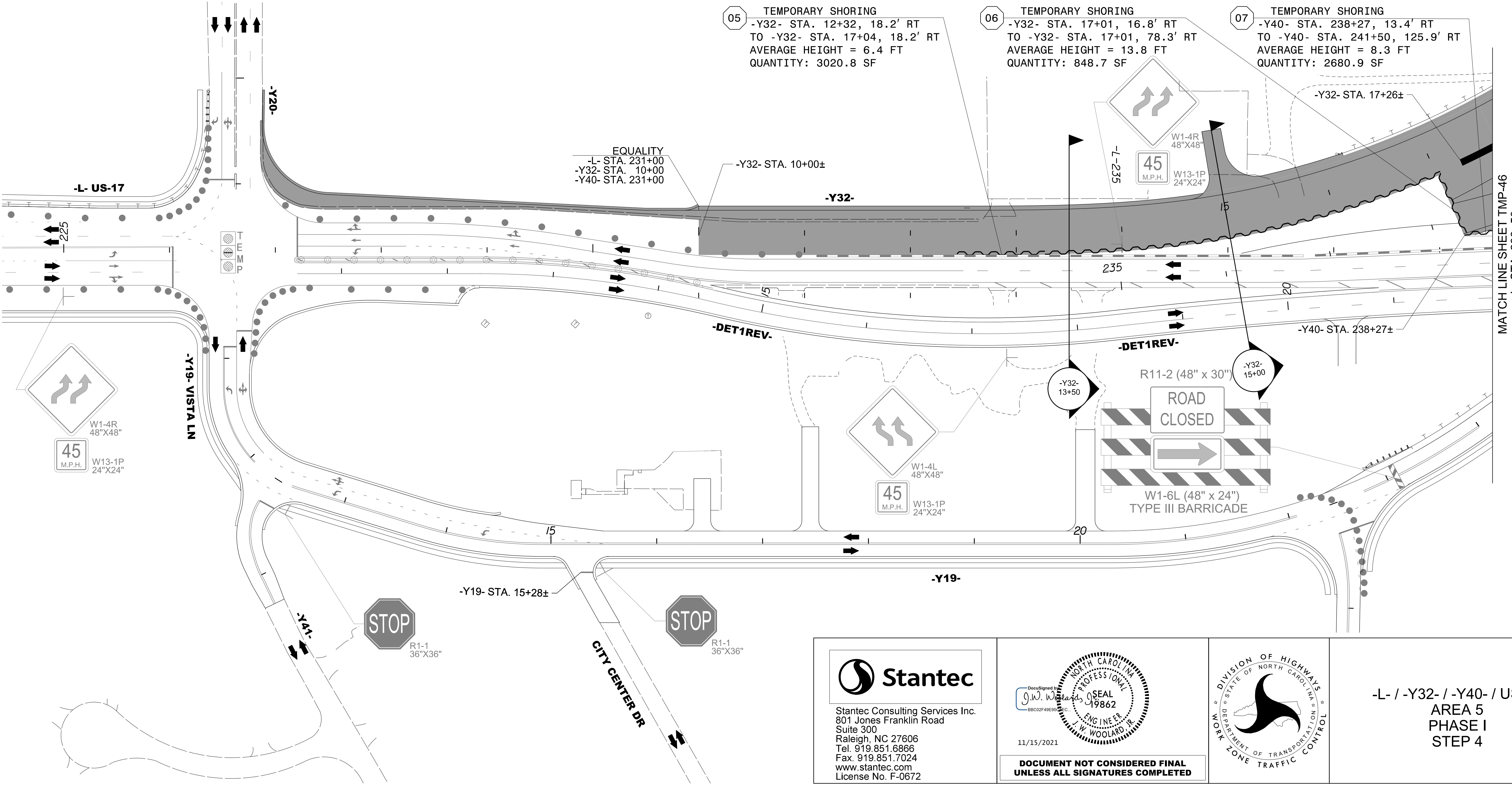
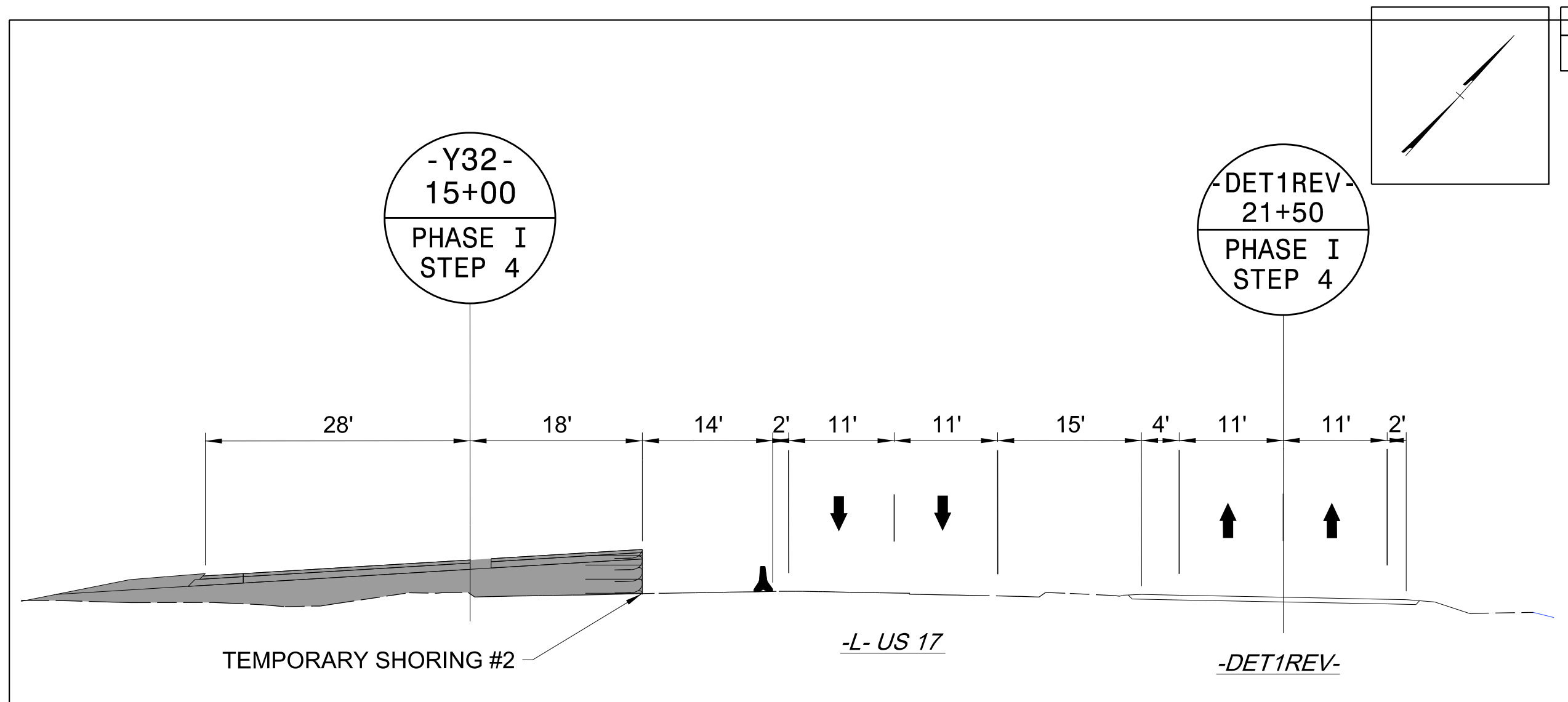
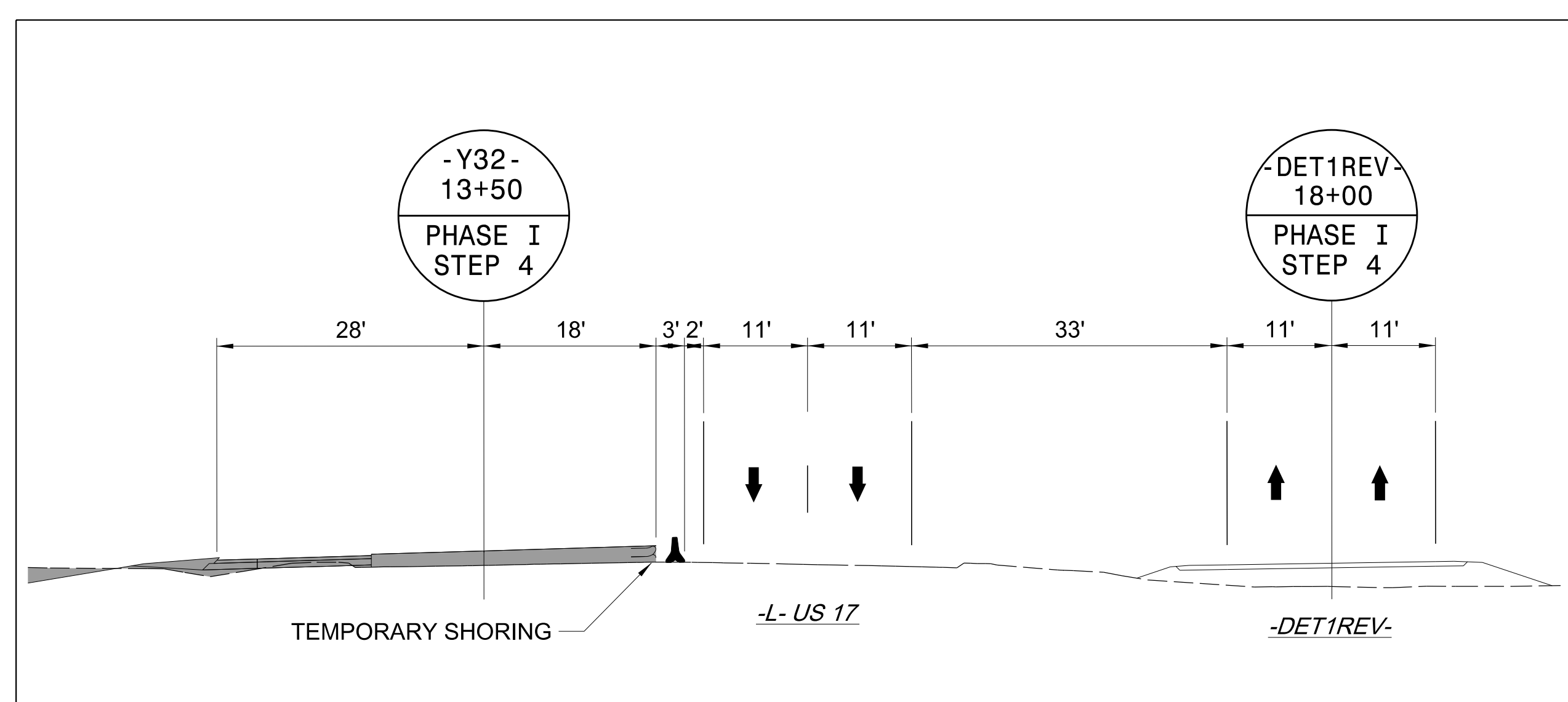
DocuSigned by:  
 J.W. Williams  
 BBO2F49E93C  
 10/28/2021

PROFESSOR  
 SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.

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



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 3A



05 TEMPORARY SHORING  
 -Y32- STA. 12+32, 18.2' RT  
 TO -Y32- STA. 17+04, 18.2' RT  
 AVERAGE HEIGHT = 6.4 FT  
 QUANTITY: 3020.8 SF

06 TEMPORARY SHORING  
 -Y32- STA. 17+01, 16.8' RT  
 TO -Y32- STA. 17+26±, 78.3' RT  
 AVERAGE HEIGHT = 13.8 FT  
 QUANTITY: 848.7 SF

07 TEMPORARY SHORING  
 -Y40- STA. 238+27, 13.4' RT  
 TO -Y40- STA. 241+50, 125.9' RT  
 AVERAGE HEIGHT = 8.3 FT  
 QUANTITY: 2680.9 SF

EQUALITY  
 -L- STA. 231+00  
 -Y32- STA. 10+00  
 -Y40- STA. 231+00

MATCH LINE SHEET TMP-46  
 -L- STA. 238+50

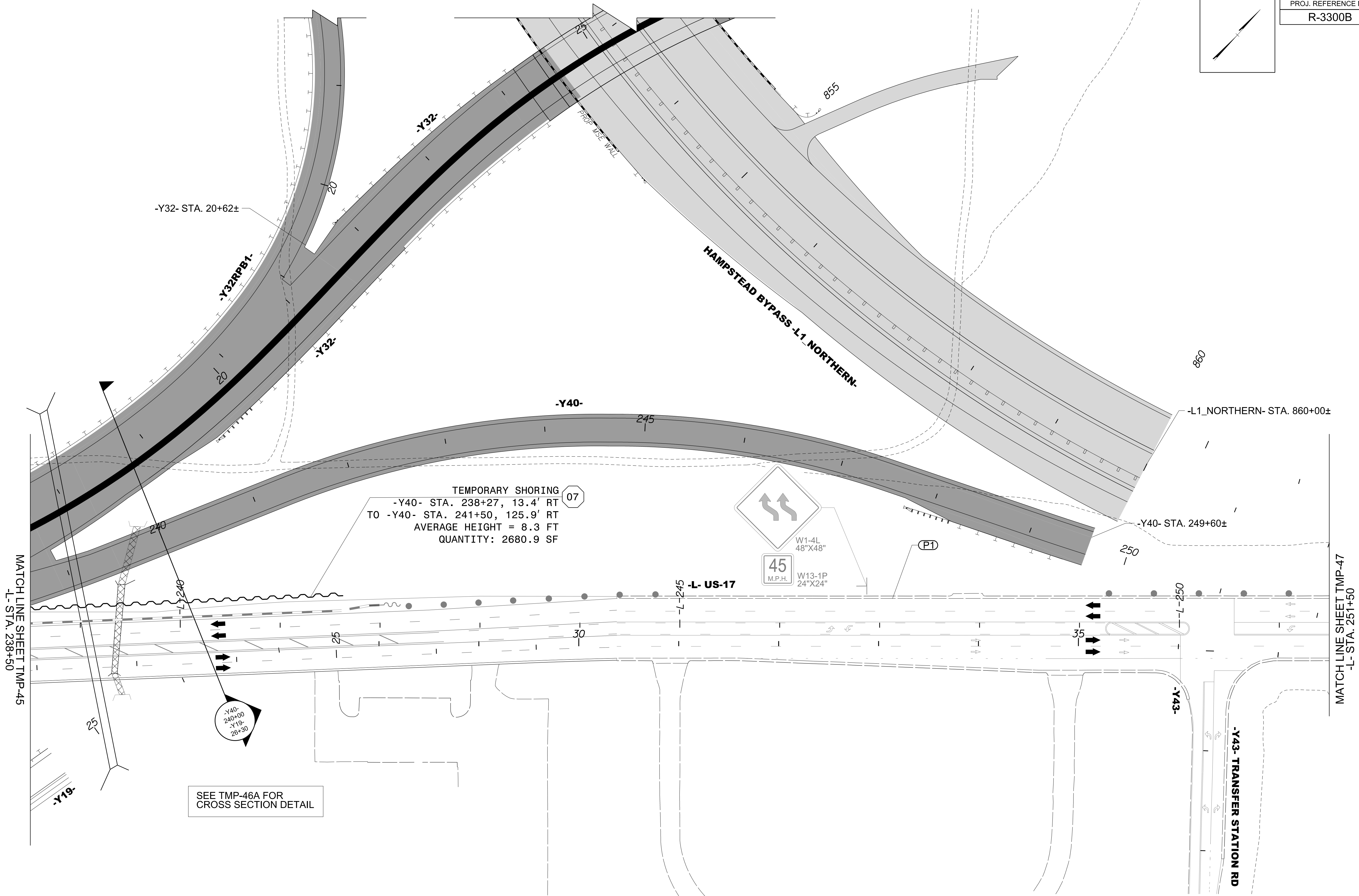
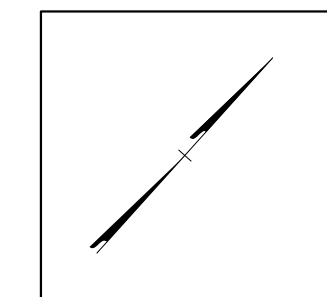
11/15/2021  
 L:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_45\_AREA 5\_PHASE 1\_STEP 4.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 SEAL  
 19862  
 ENG/NEE  
 W. WOOLARD, R.  
 11/15/2021  
 DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

DIVISION OF HIGHWAYS  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4



TEMPORARY SHORING (07)  
 -Y40- STA. 238+27, 13.4' RT  
 TO -Y40- STA. 241+50, 125.9' RT  
 AVERAGE HEIGHT = 8.3 FT  
 QUANTITY: 2680.9 SF

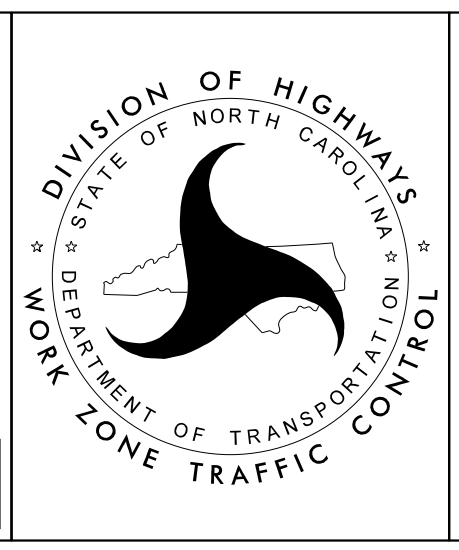
SEE TMP-46A FOR  
 CROSS SECTION DETAIL

9/24/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_46\_AREA 5\_PHASE 1\_STEP 4.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

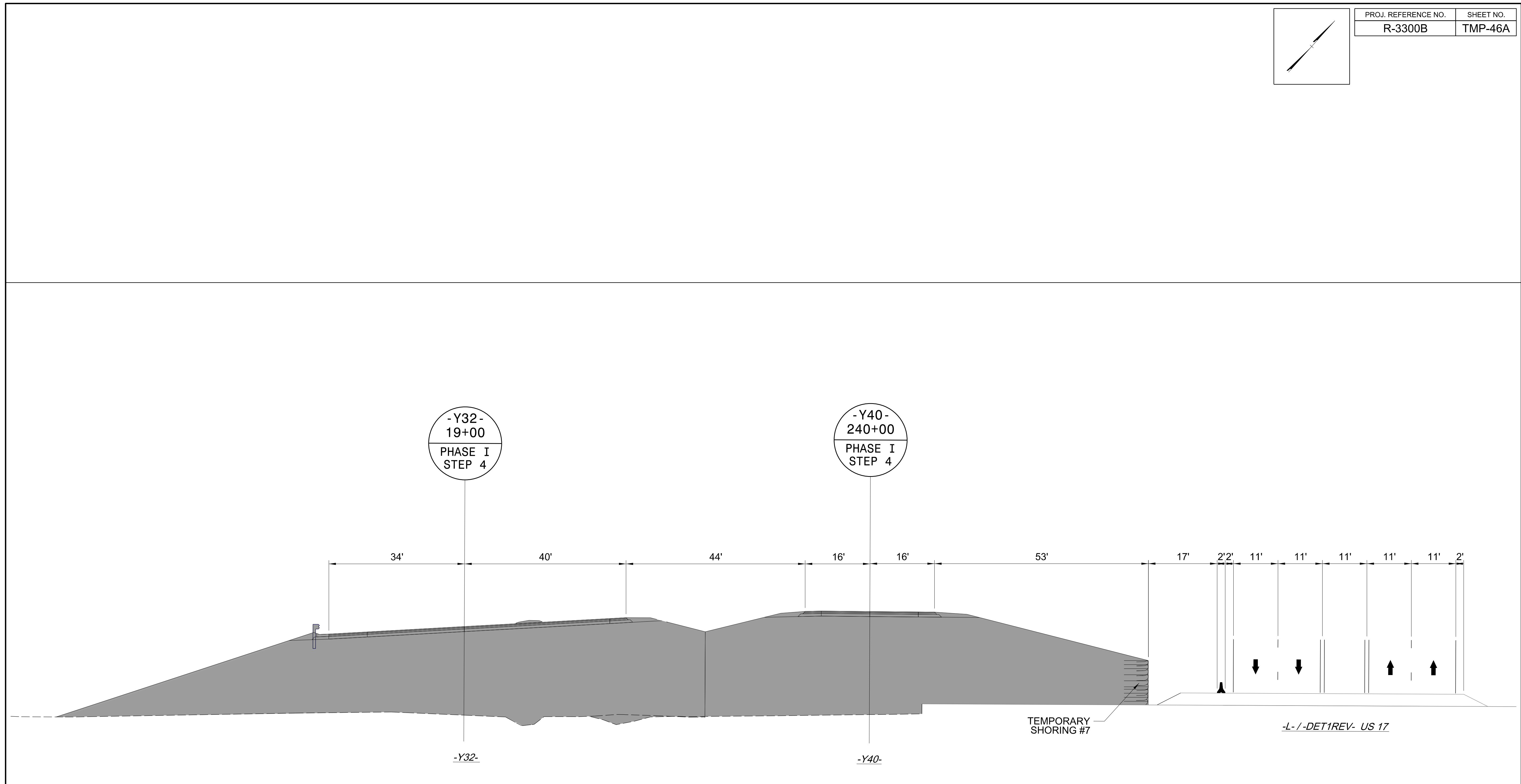
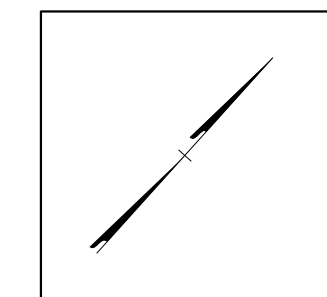
DocuSigned by:  
 J.W. Woolard  
 10/27/2021

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4

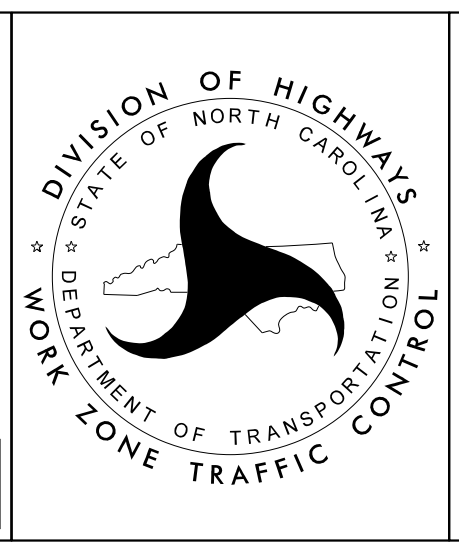




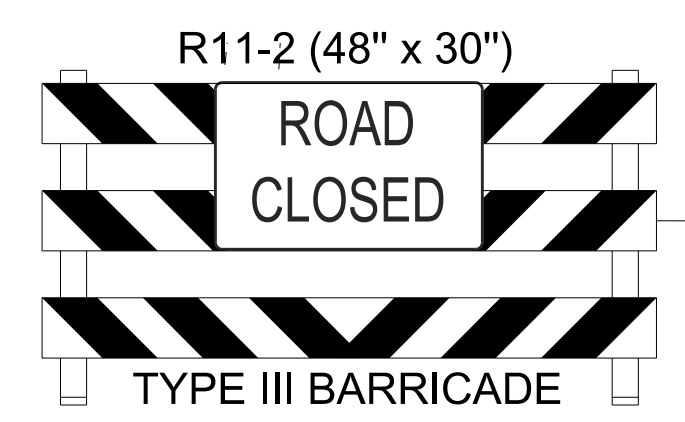
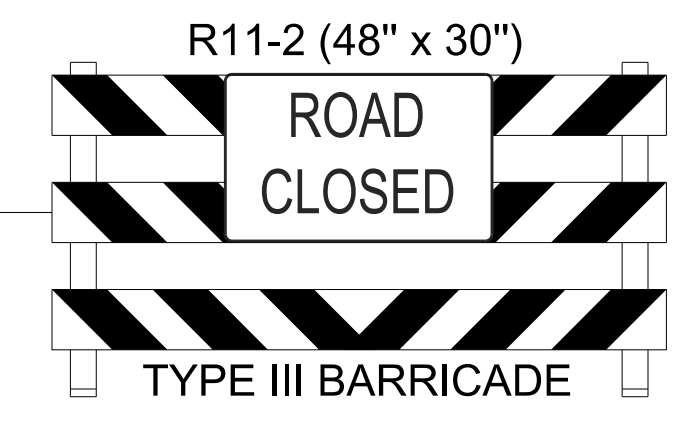
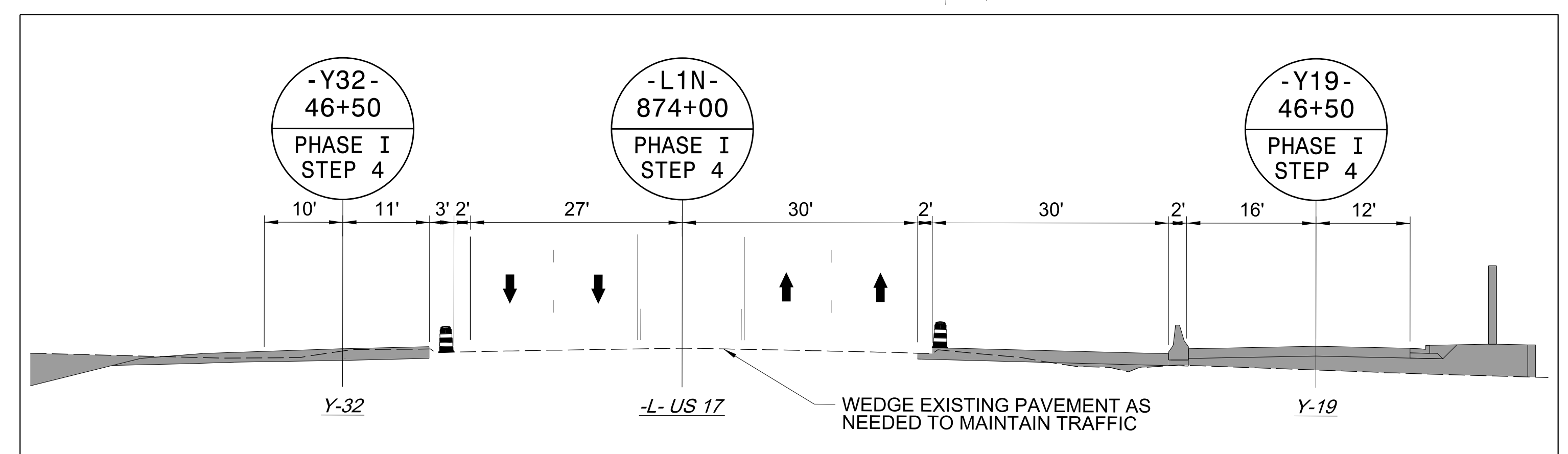
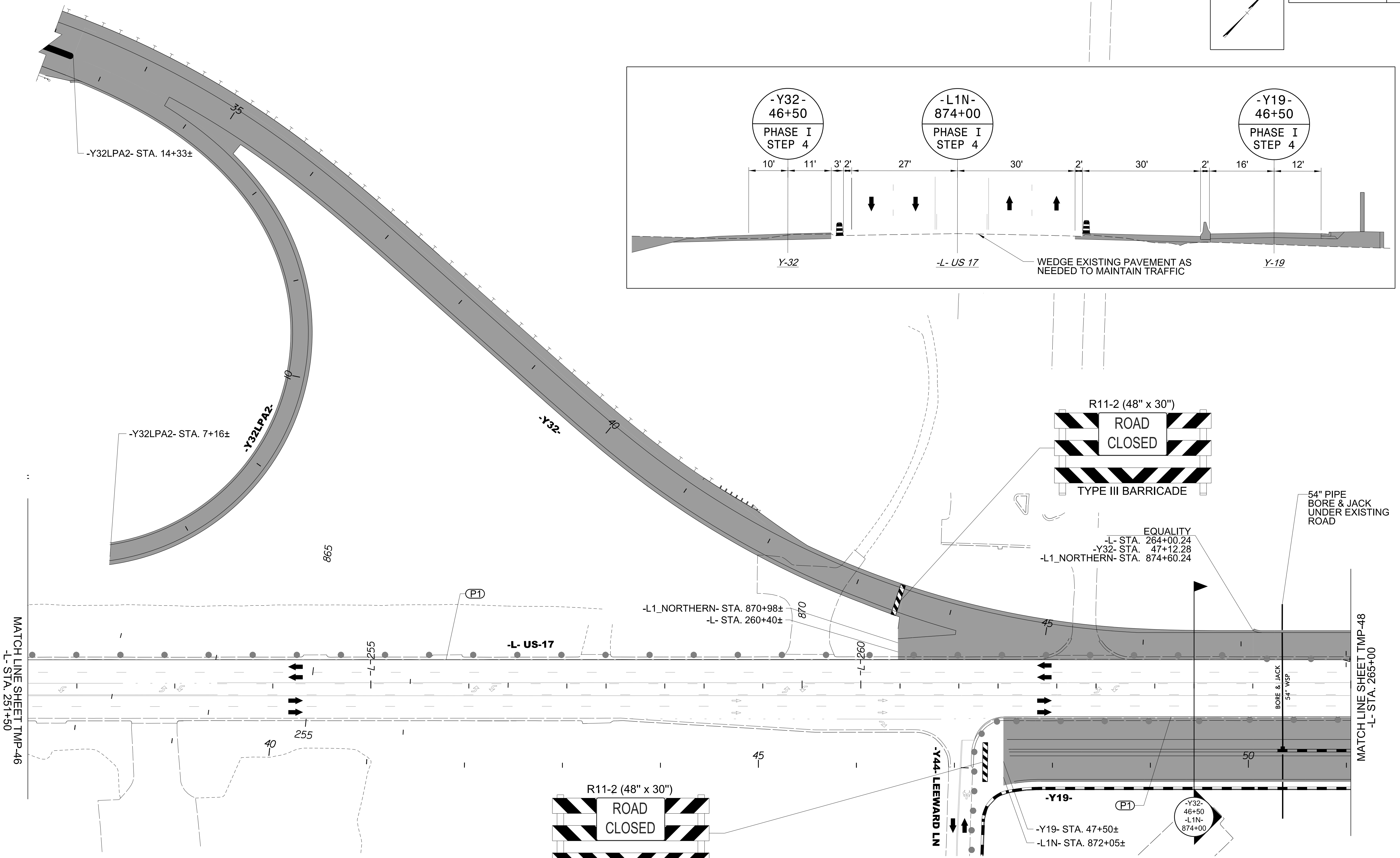
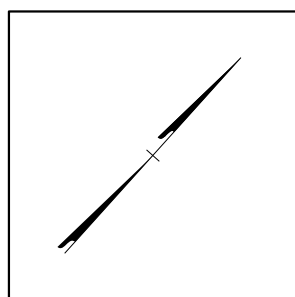
9/24/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_46A\_AREA 5\_PHASE 1\_STEP 4.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J.W. WOOLARD, P.E.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4  
 CROSS SECTION -Y40- 240+00



EQUALITY  
 -L- STA. 264+00.24  
 -Y32- STA. 47+12.28  
 -L1\_NORTHERN- STA. 874+60.24

54" PIPE BORE & JACK UNDER EXISTING ROAD

-Y44- LEWARD LN

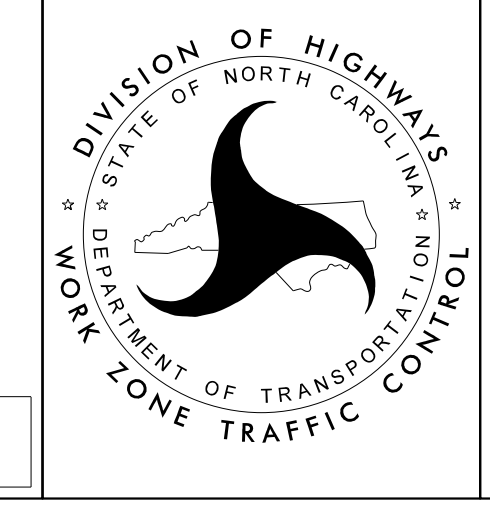
-Y19-  
 -Y19- STA. 47+50±  
 -L1N- STA. 872+05±

-Y32- 46+50  
 -L1N- 874+00

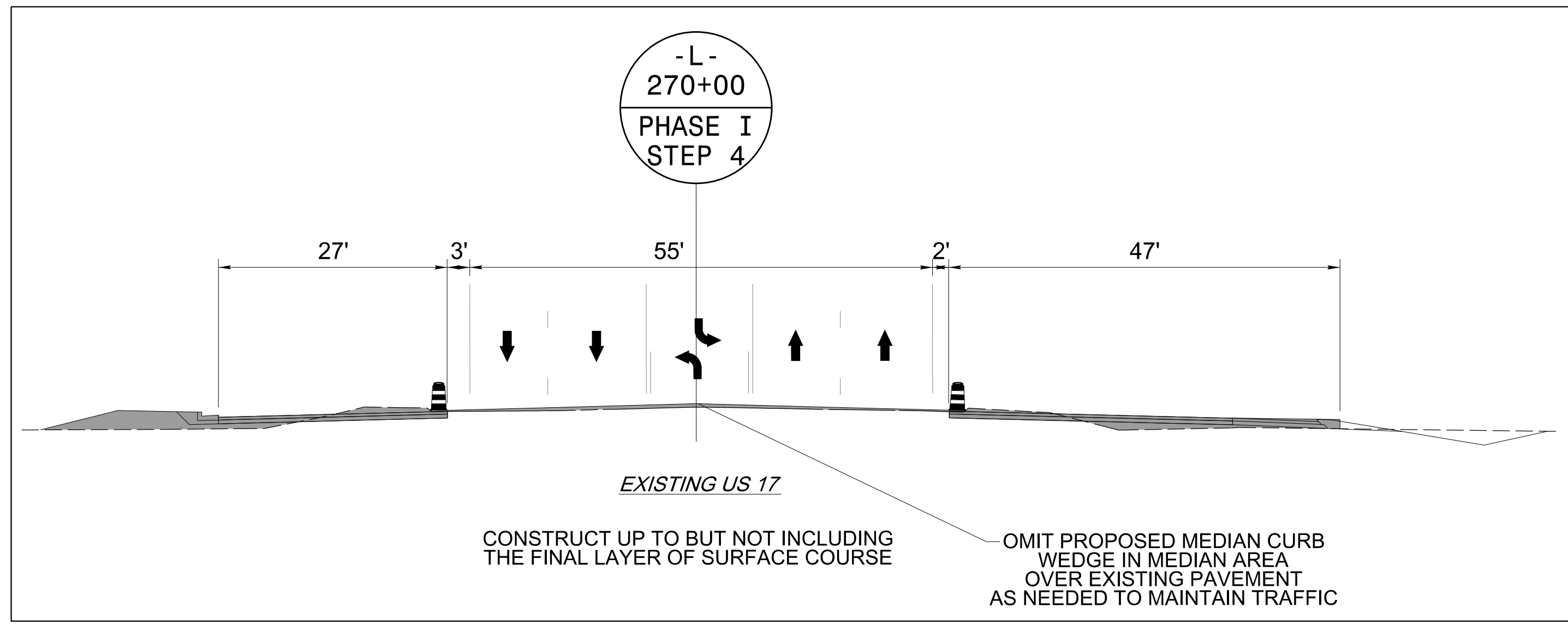
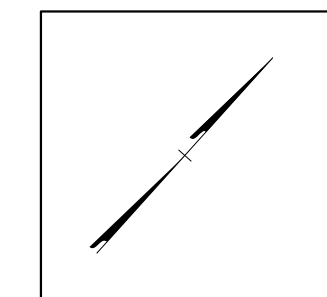
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\_TMP\_47\_AREA 5\_PHASE I\_STEP 4.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

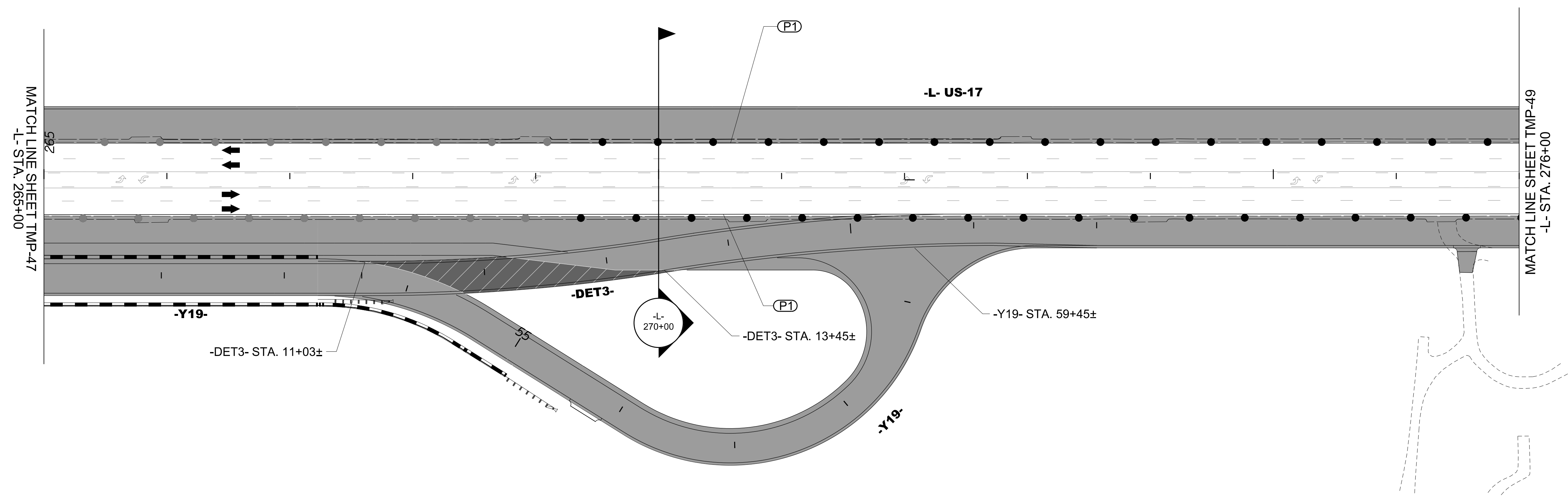
DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4

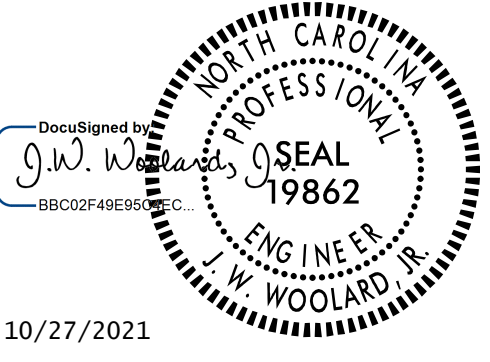


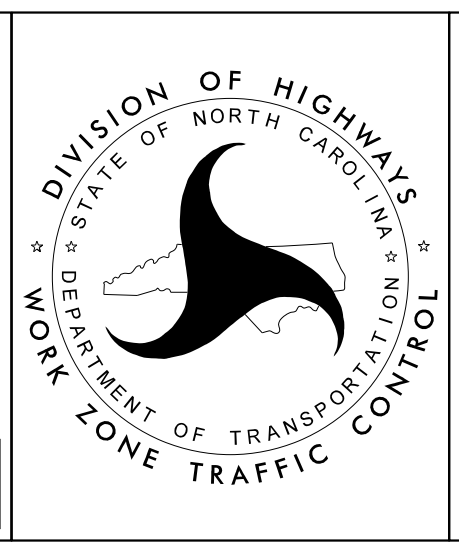
275



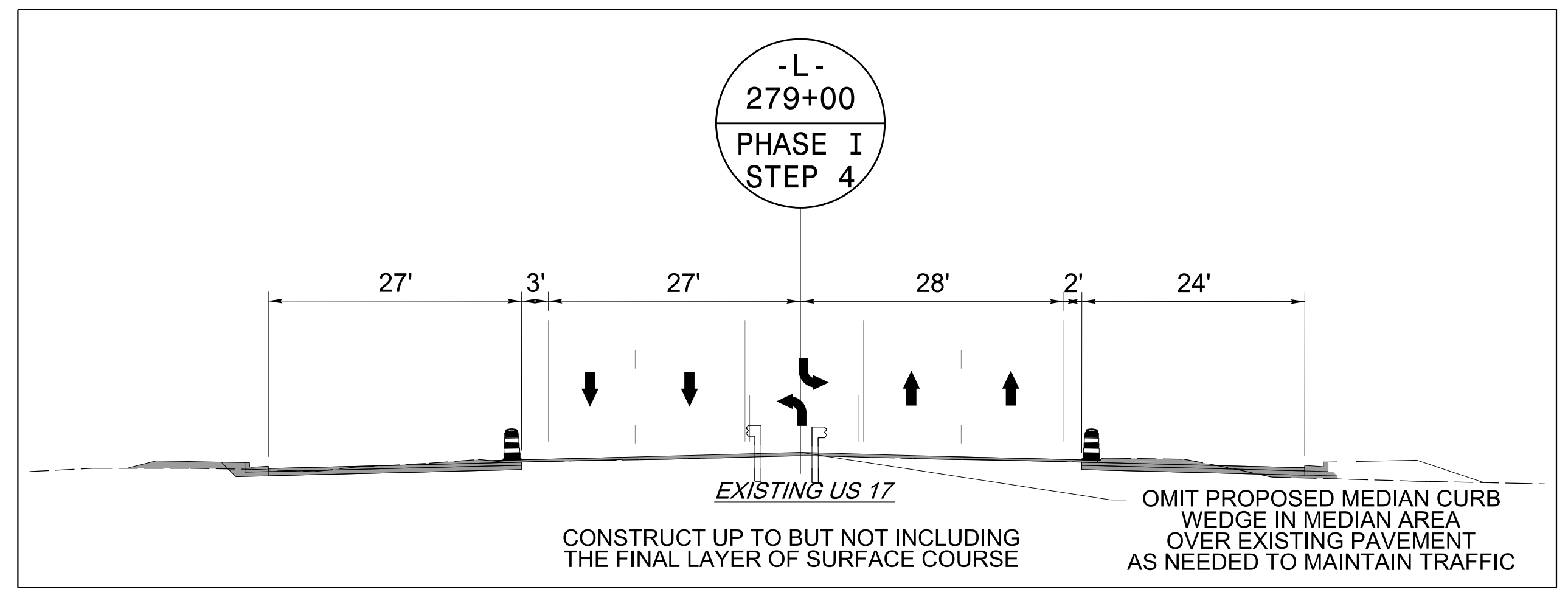
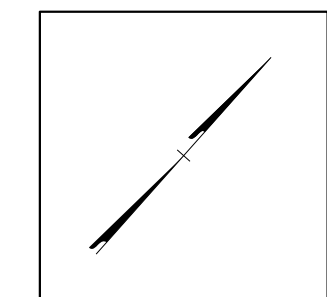
9/13/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_48\_AREA\_5\_PHASE\_I\_STEP\_4.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

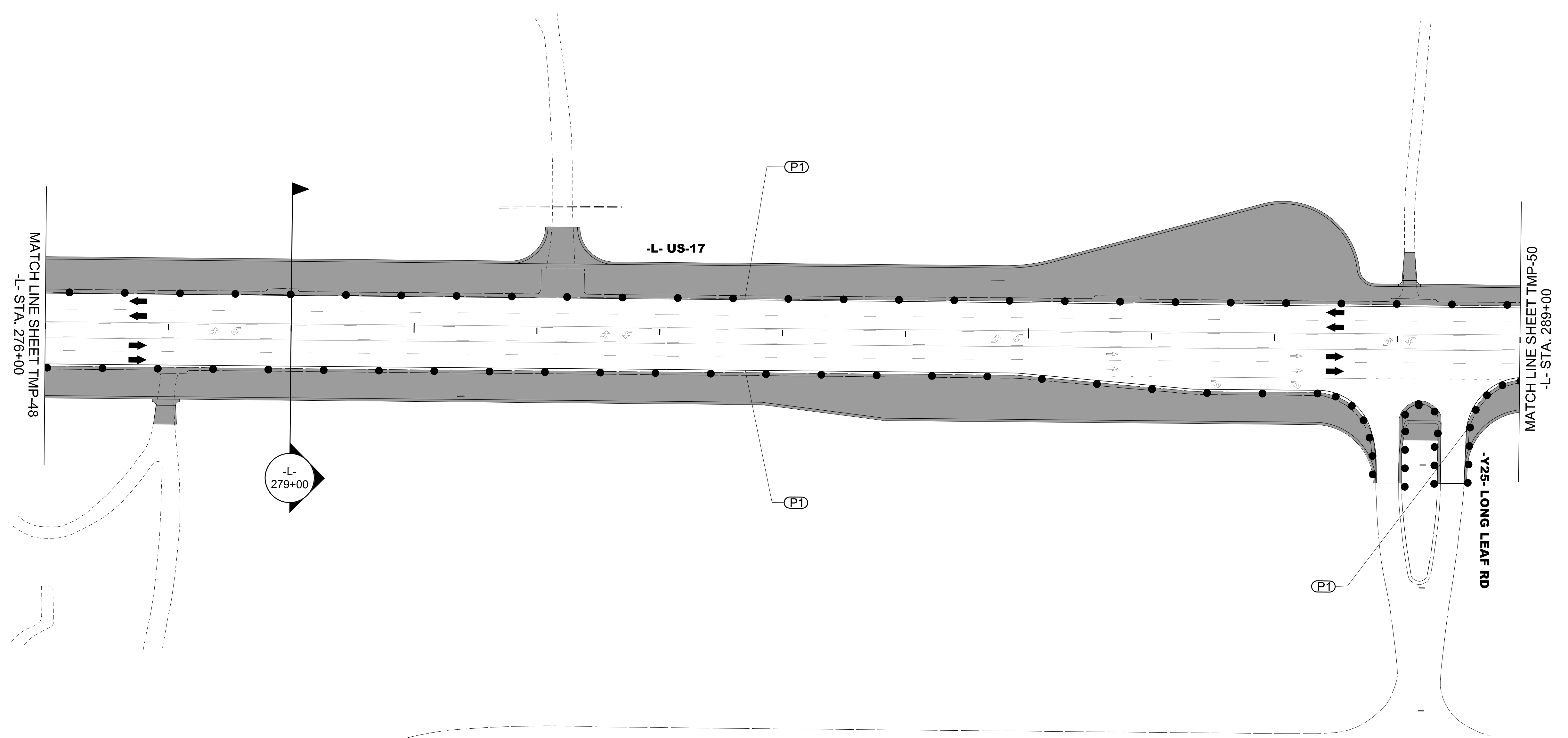


-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4



280

285

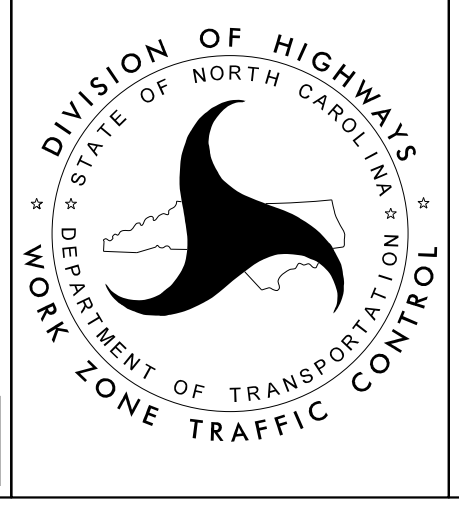


9/13/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_49\_AREA 5\_PHASE 1\_STEP 4.dgn  
angood

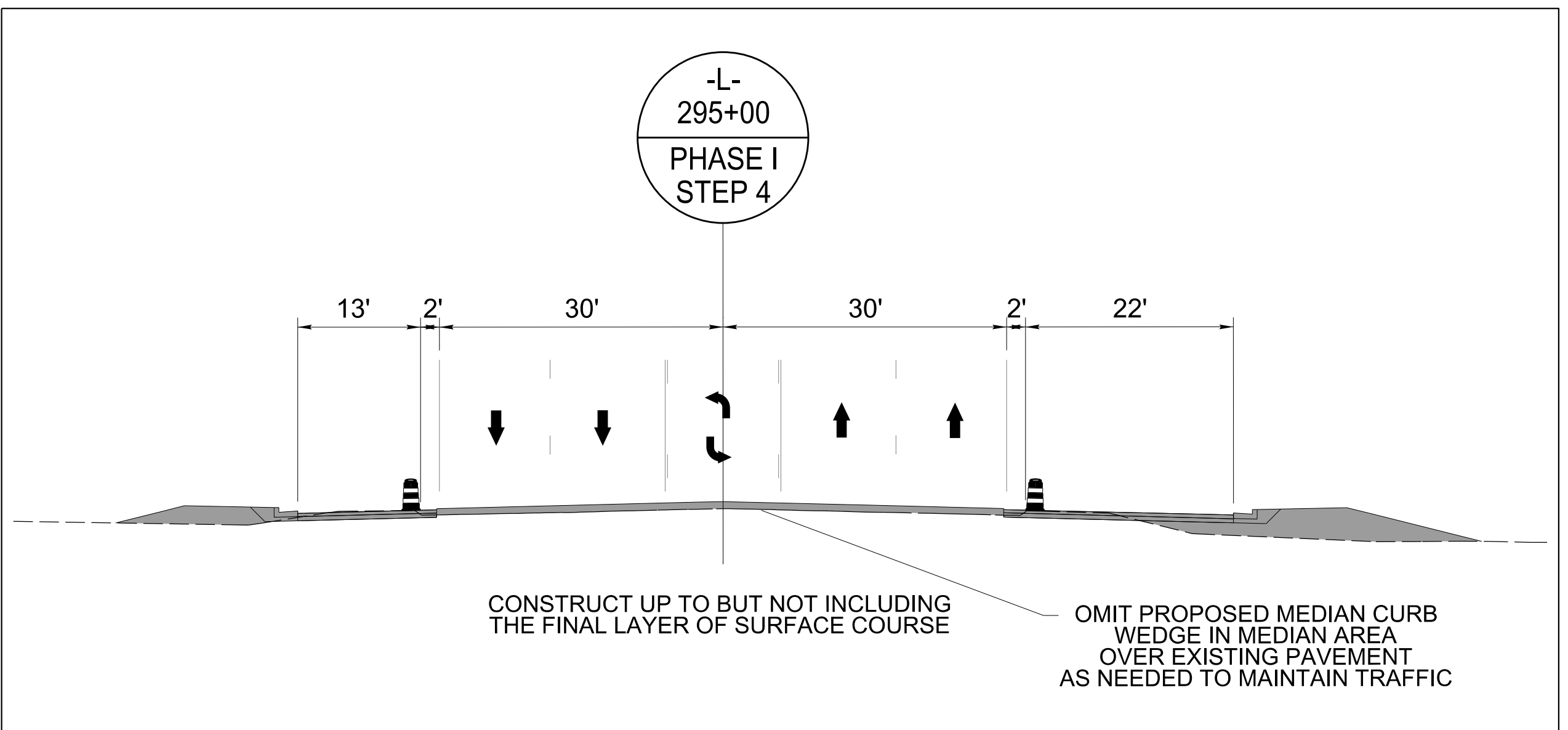
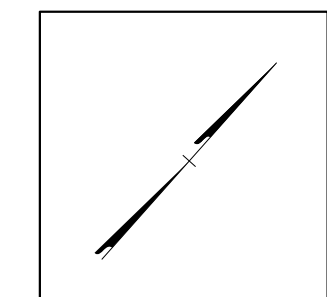
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

DocuSigned by:  
J.W. Woolard  
10/27/2021

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

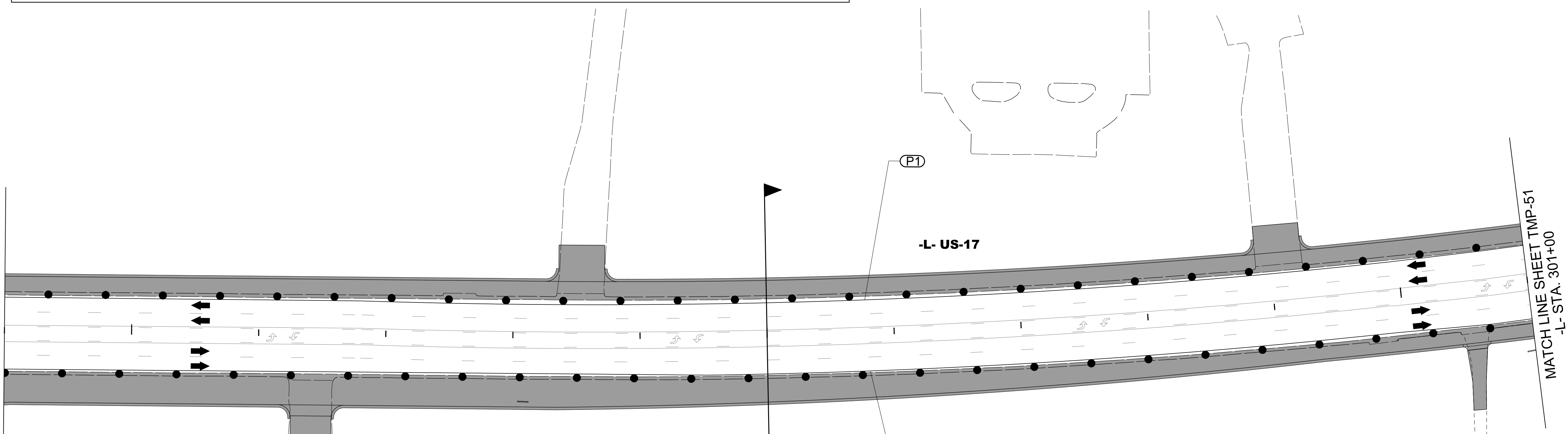


-L- / -Y32- / -Y40- / US-17  
AREA 5  
PHASE I  
STEP 4



300

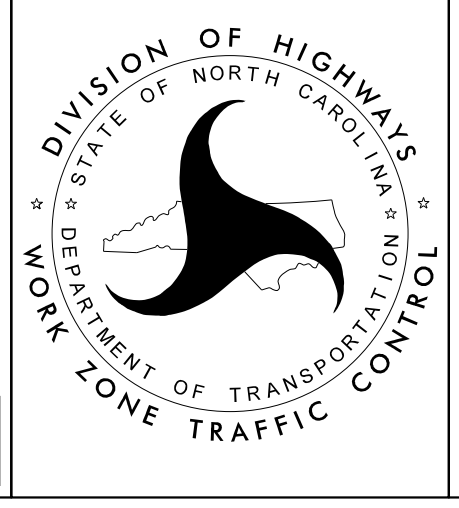
MATCH LINE SHEET TMP-49  
-L- STA. 289+00



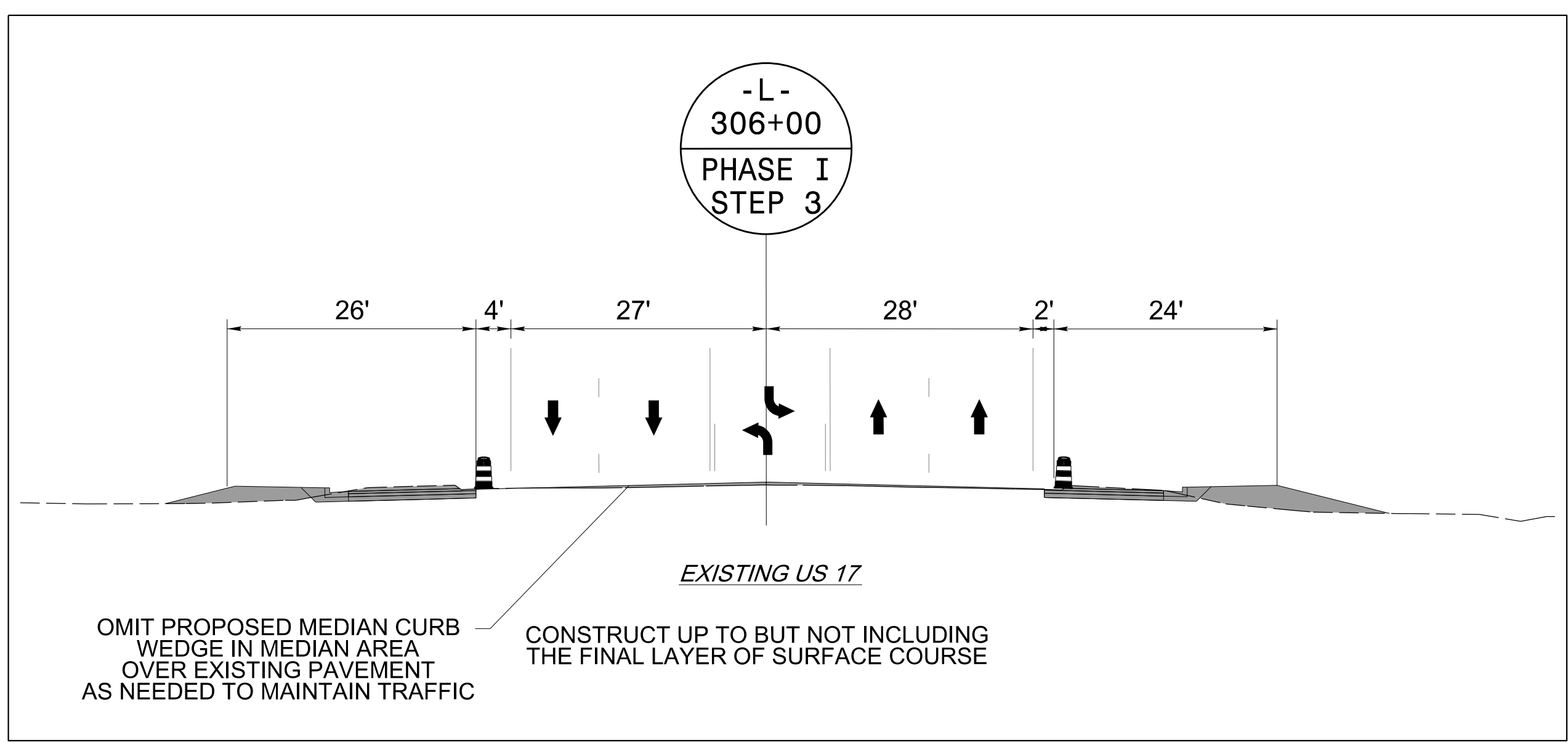
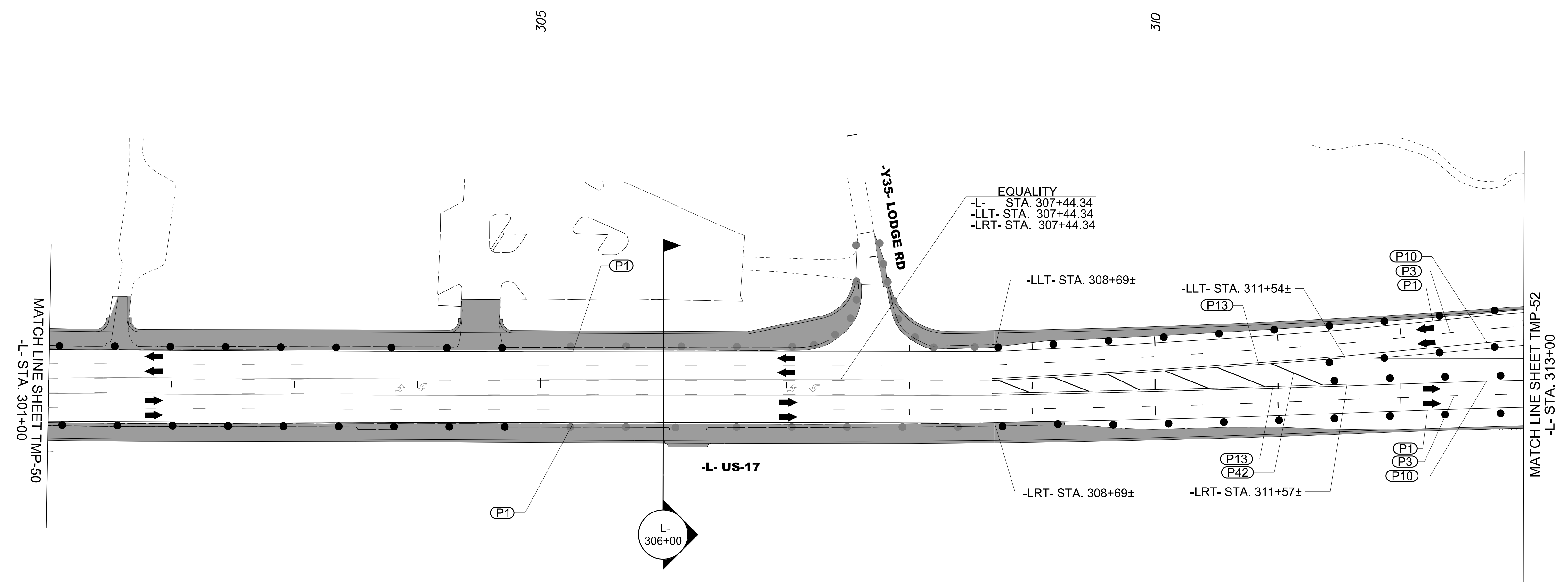
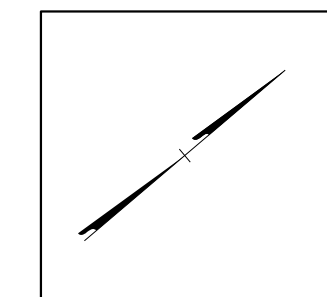
9/13/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\VR-3300B\TMP\_50\_AREA 5\_PHASE 1\_STEP 4.dgn  
angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021



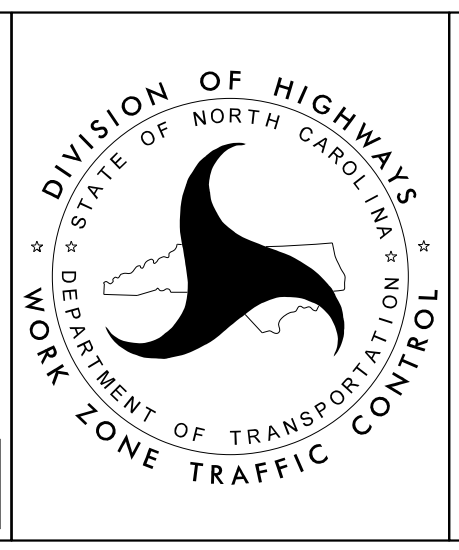
-L- / -Y32- / -Y40- / US-17  
AREA 5  
PHASE I  
STEP 4



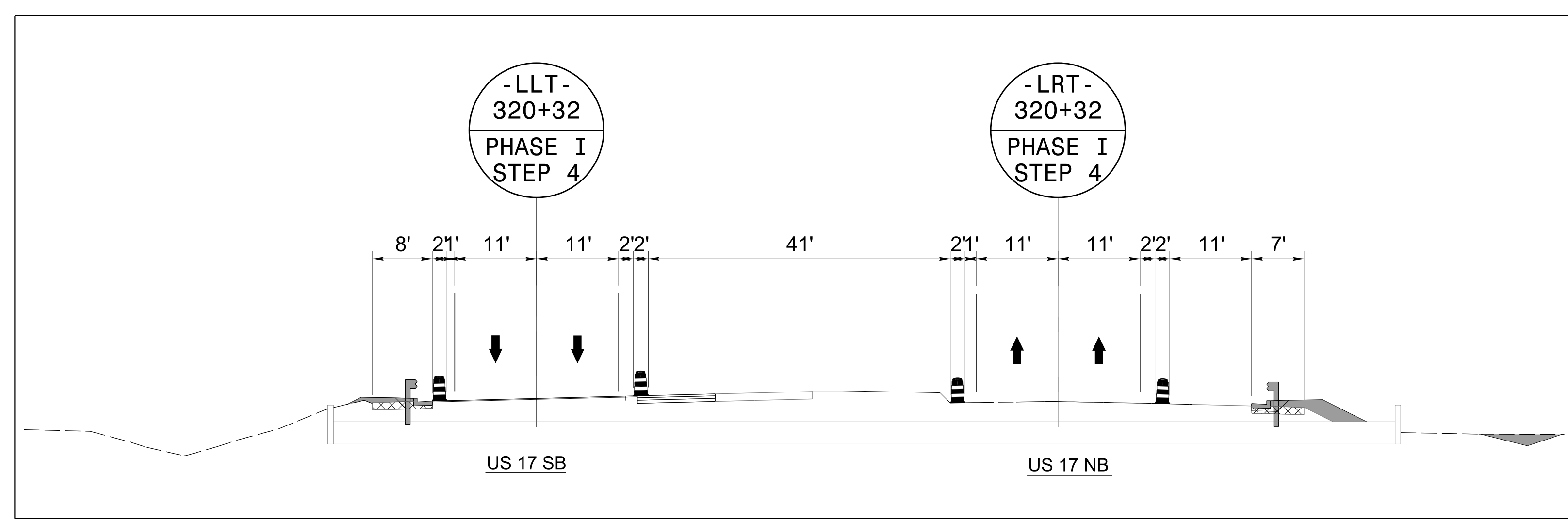
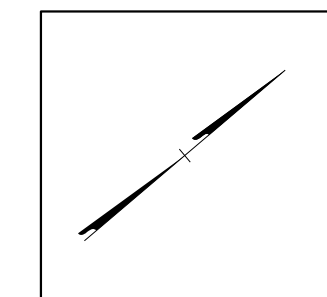
9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\NR-3300B\TMP\_51\AREA 5\_PHASE 1\_STEP 4.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

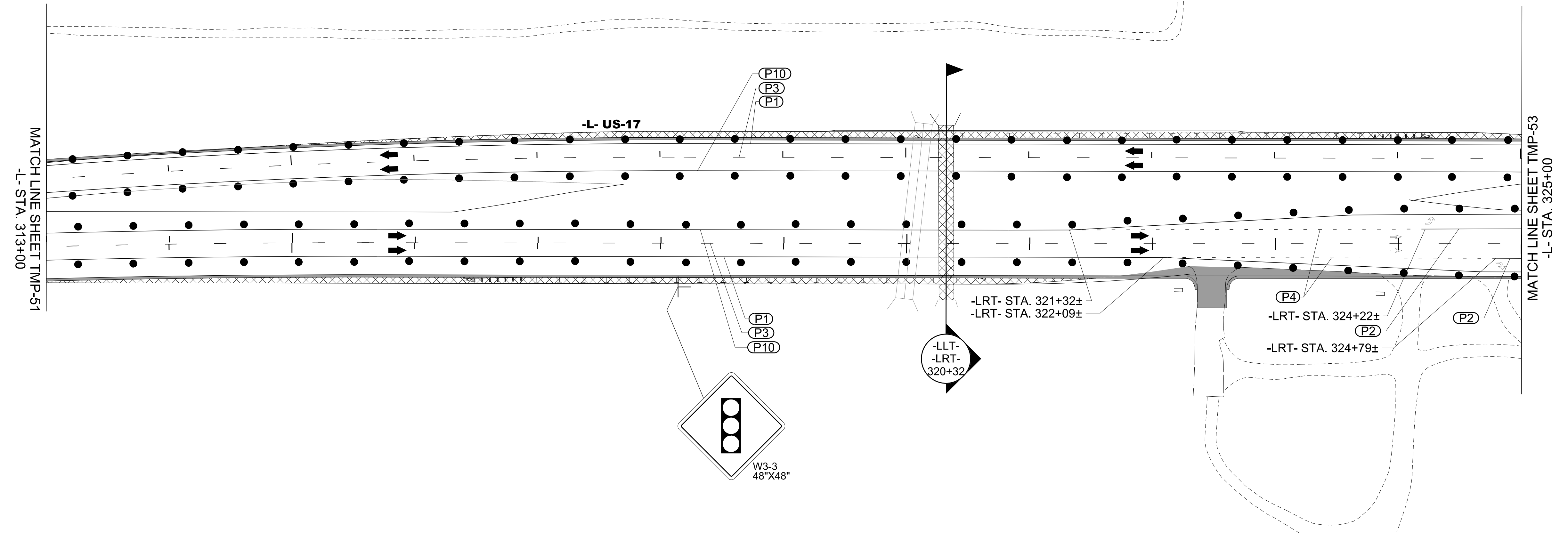
DocuSigned by:  
 J.W. Woolard  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4



325



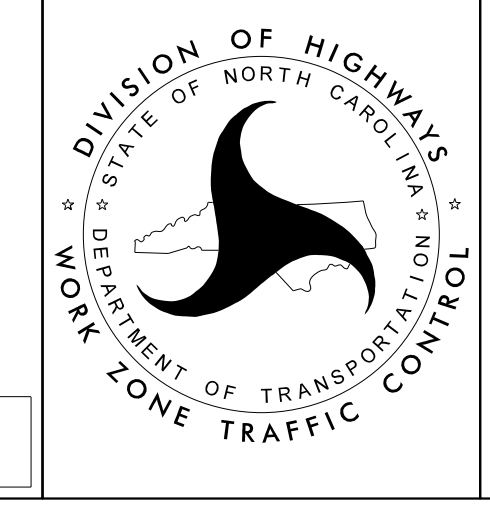
MATCH LINE SHEET TMP-51  
-L- STA. 313+00

MATCH LINE SHEET TMP-53  
-L- STA. 325+00

9/13/2021  
U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_52.AREA 5\_PHASE I\_STEP 4.dgn  
angood

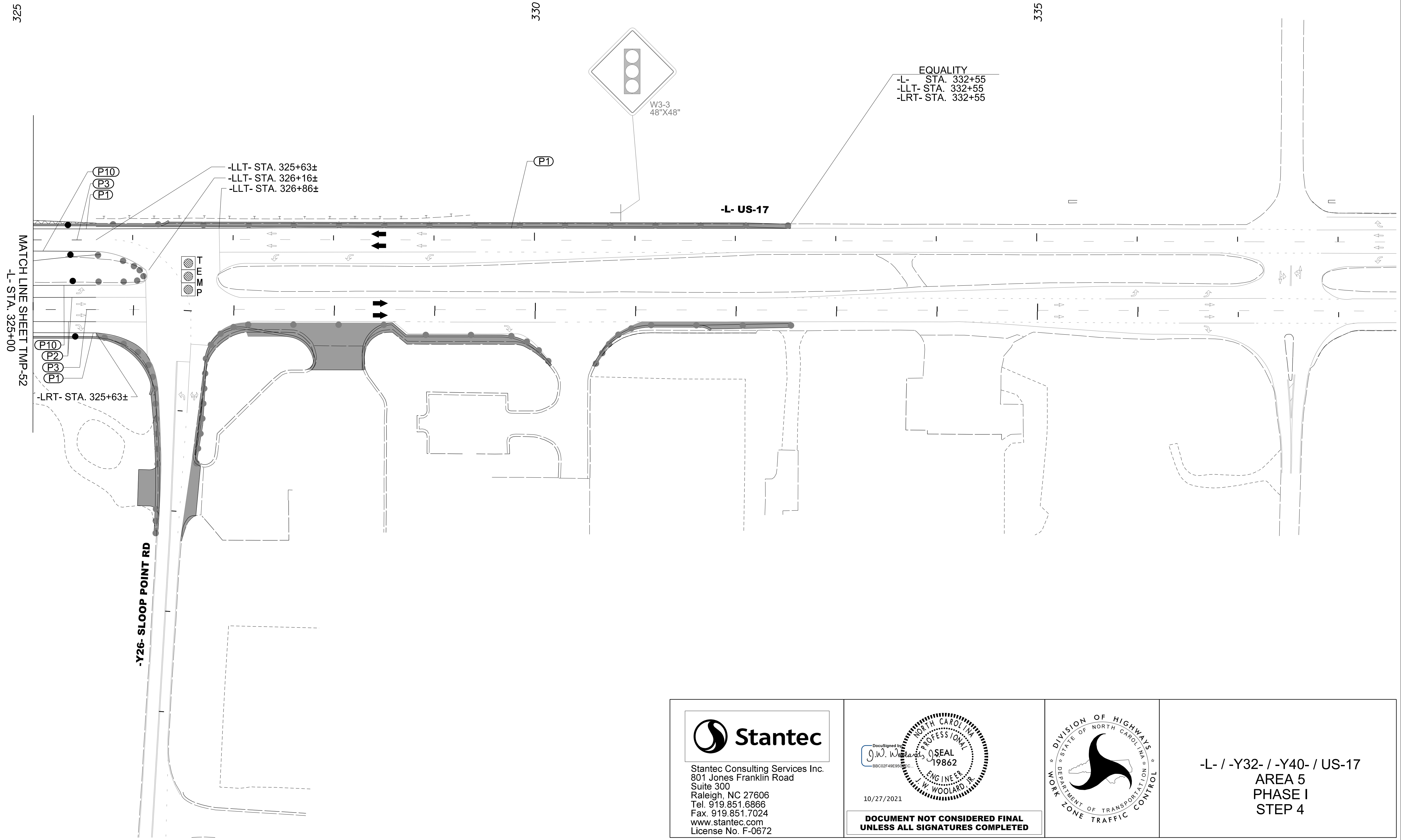
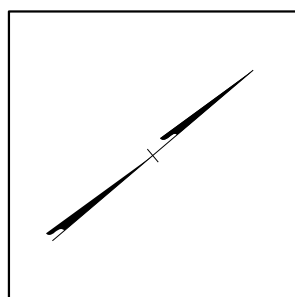
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. 919.851.6866  
Fax. 919.851.7024  
www.stantec.com  
License No. F-0672

10/27/2021  
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



-L- / -Y32- / -Y40- / US-17  
AREA 5  
PHASE I  
STEP 4

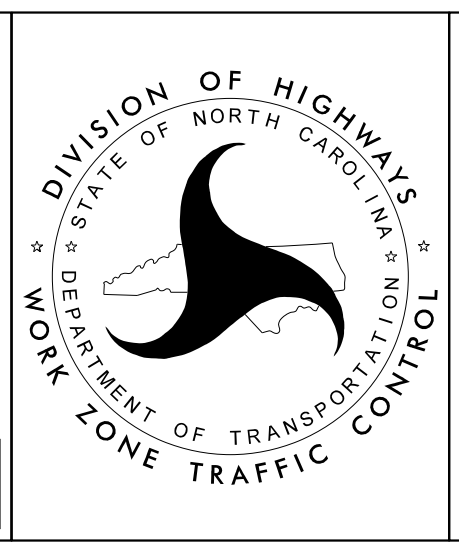
PROJ. REFERENCE NO.	SHEET NO.
R-3300B	TMP-53



9/13/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_53\AREA 5\_PHASE 1\_STEP 4.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

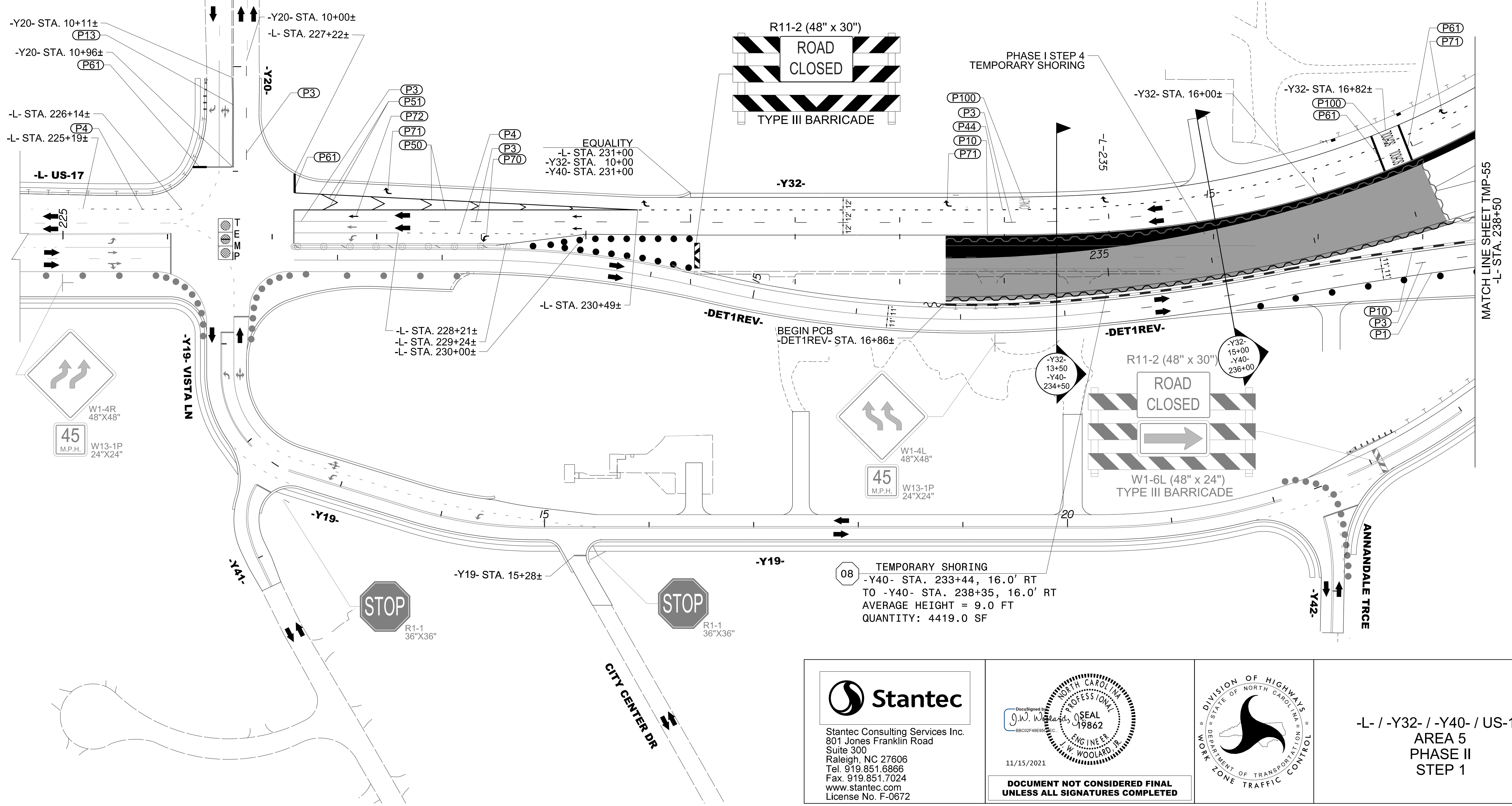
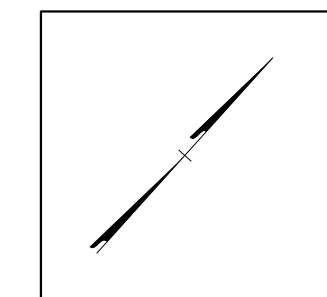
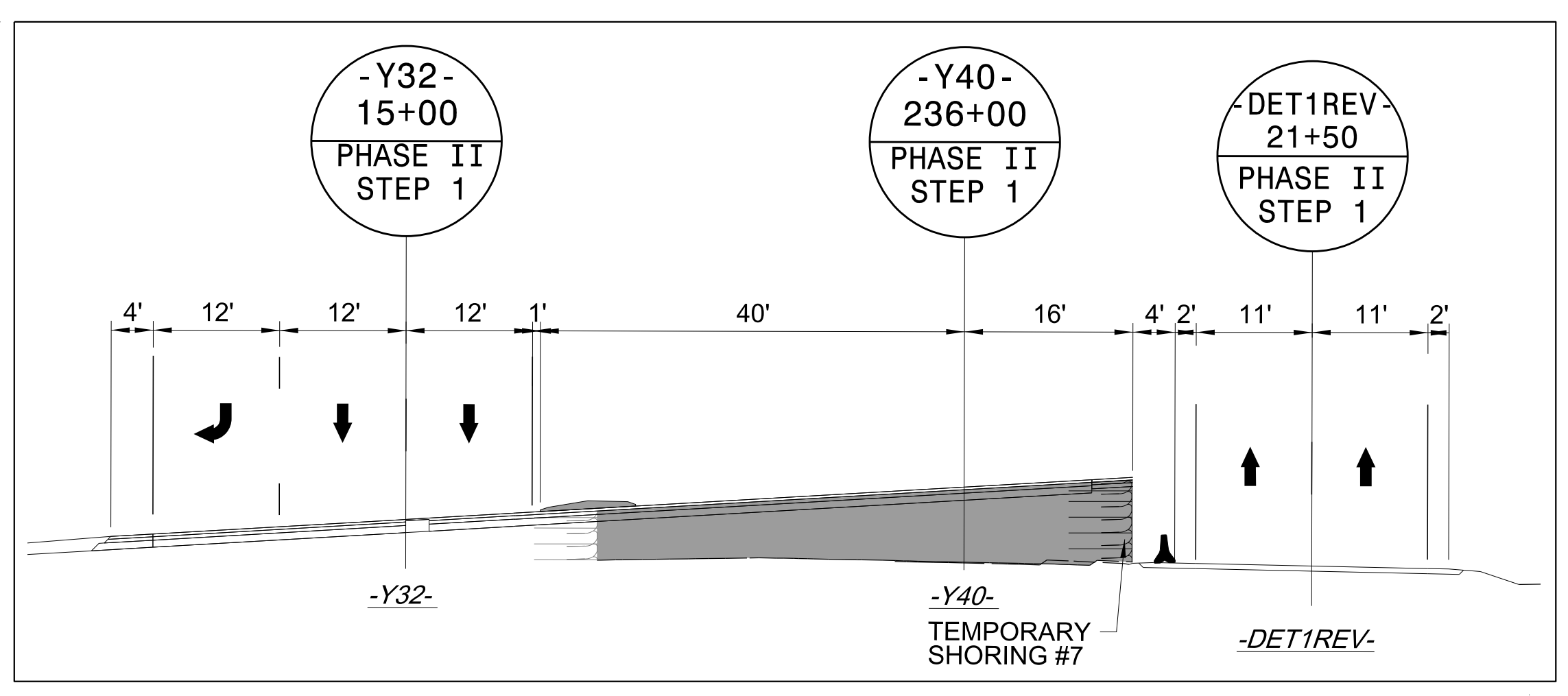
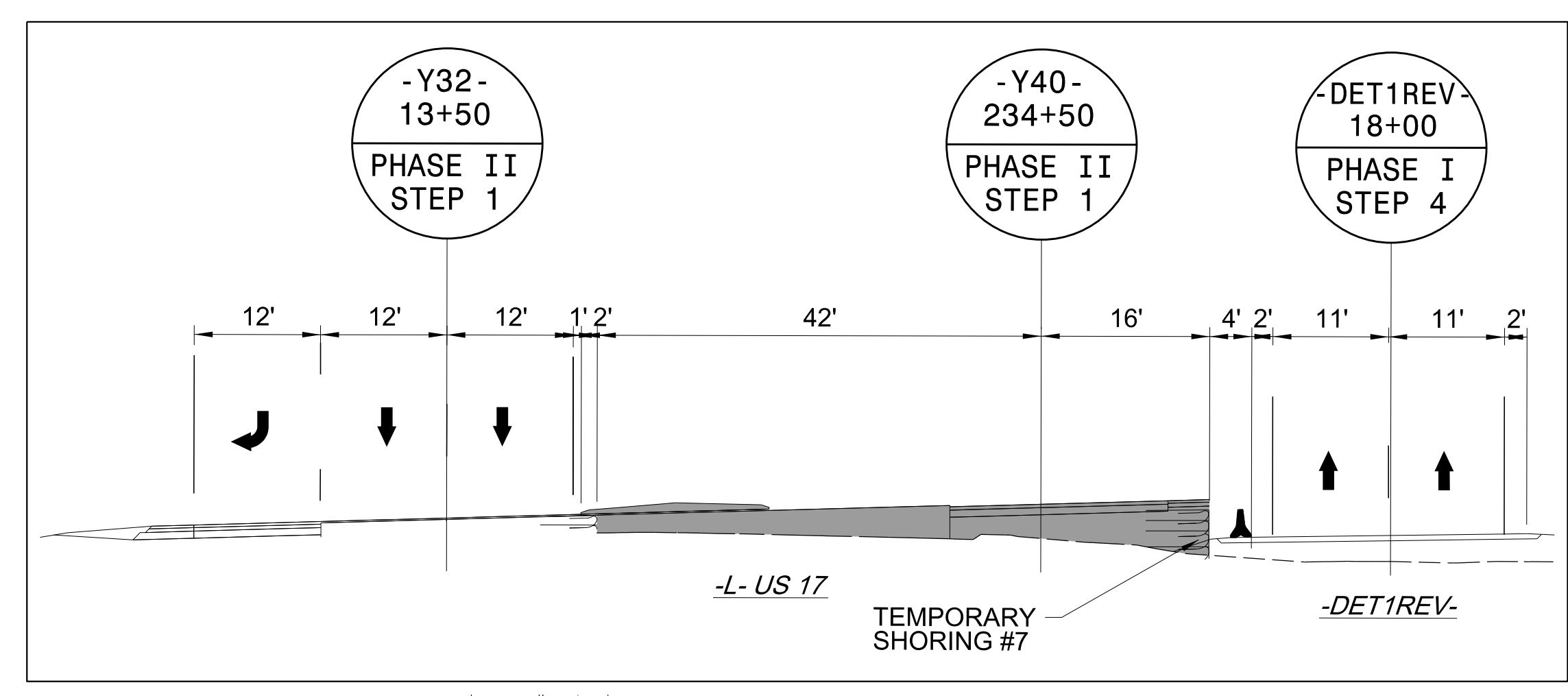
DocuSigned by:  
 J.W. Woolard  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



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

-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE I  
 STEP 4

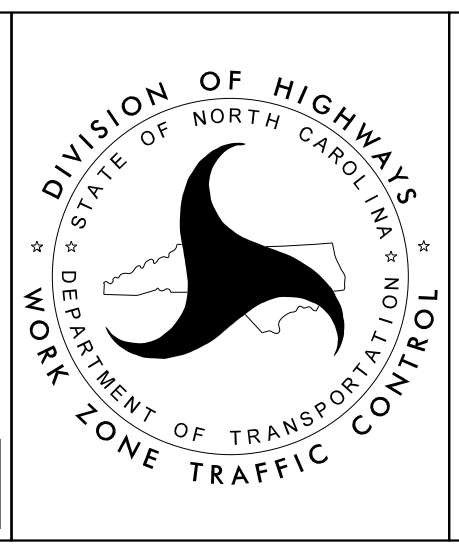




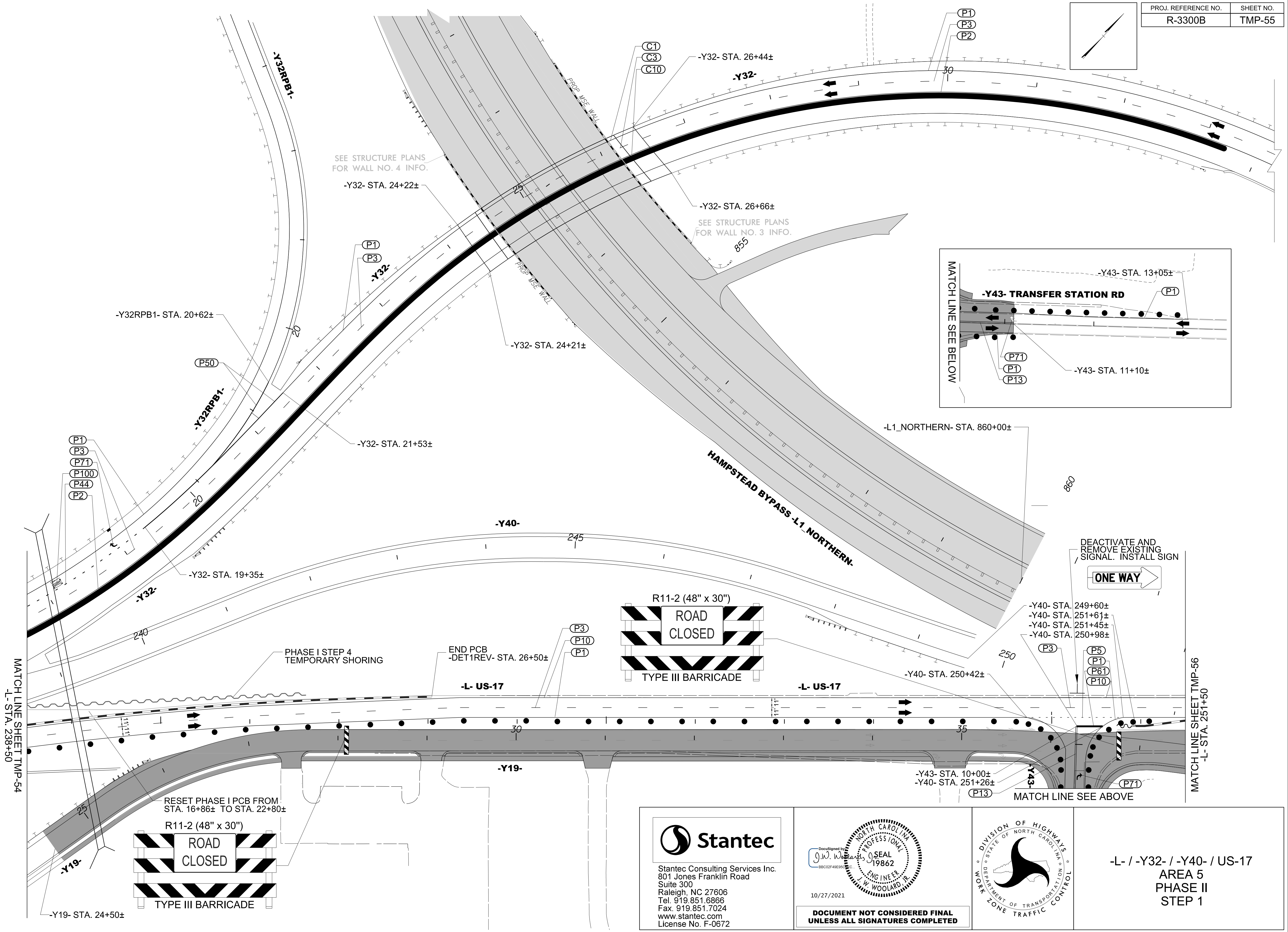
11/15/2021  
 L:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\TMP\_54\AREA 5\_PHASE 2\_STEP 1.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

11/15/2021  
  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



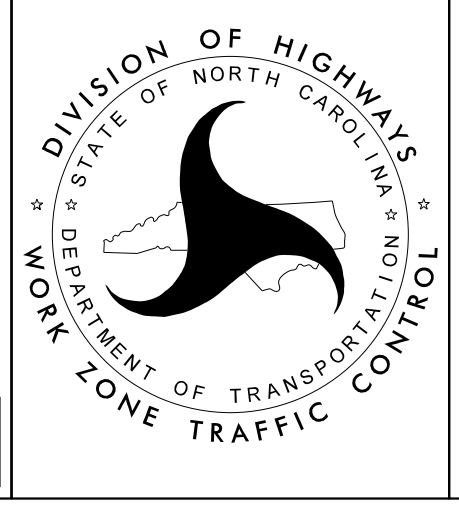
-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE II  
 STEP 1



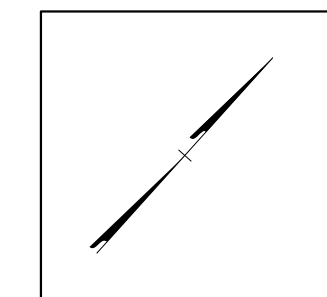
10/27/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_55\_AREA 5\_PHASE 2\_STEP 1.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

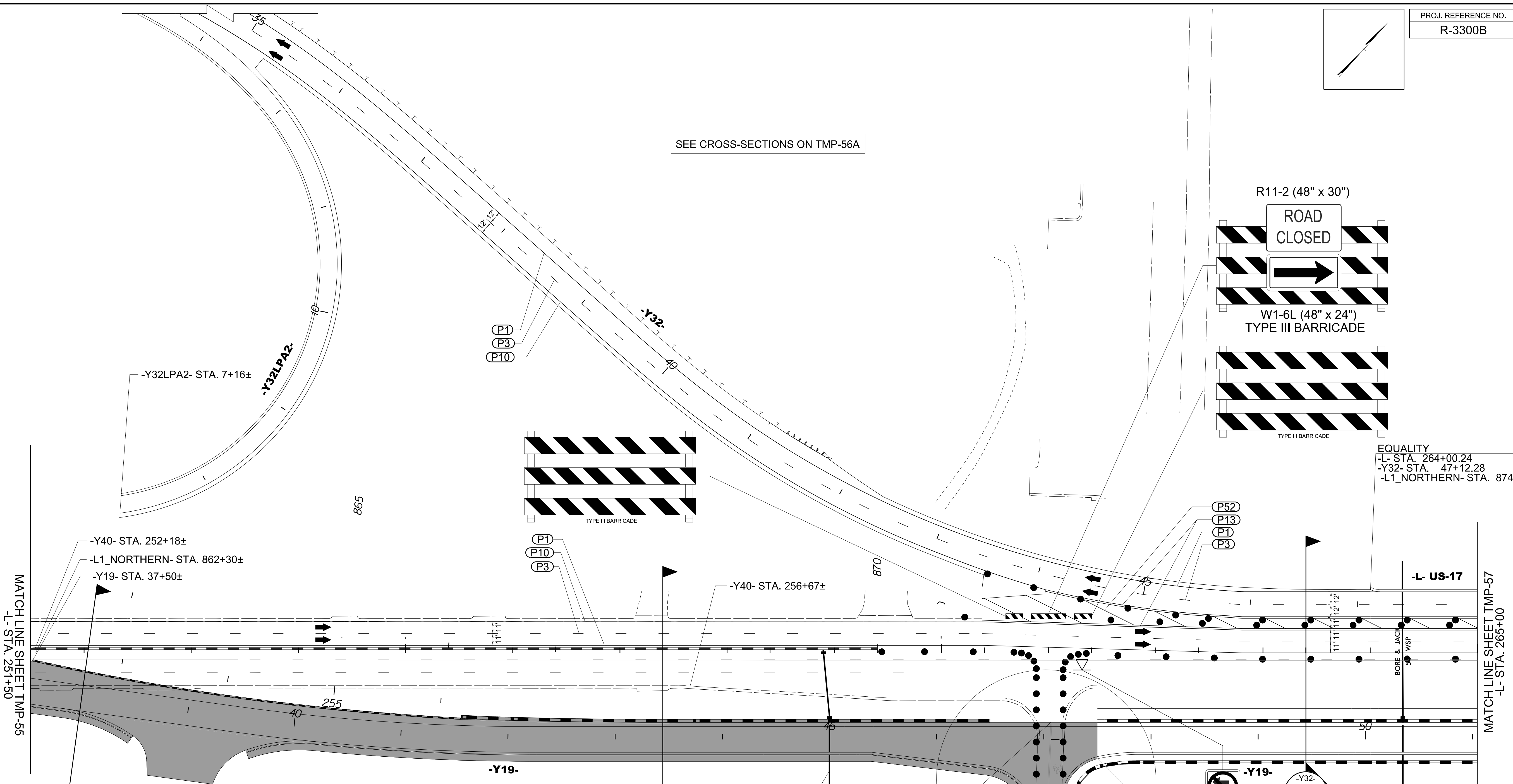
Documented by  
 J.W. Williams  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



**-L / -Y32 / -Y40 / US-17  
 AREA 5  
 PHASE II  
 STEP 1**

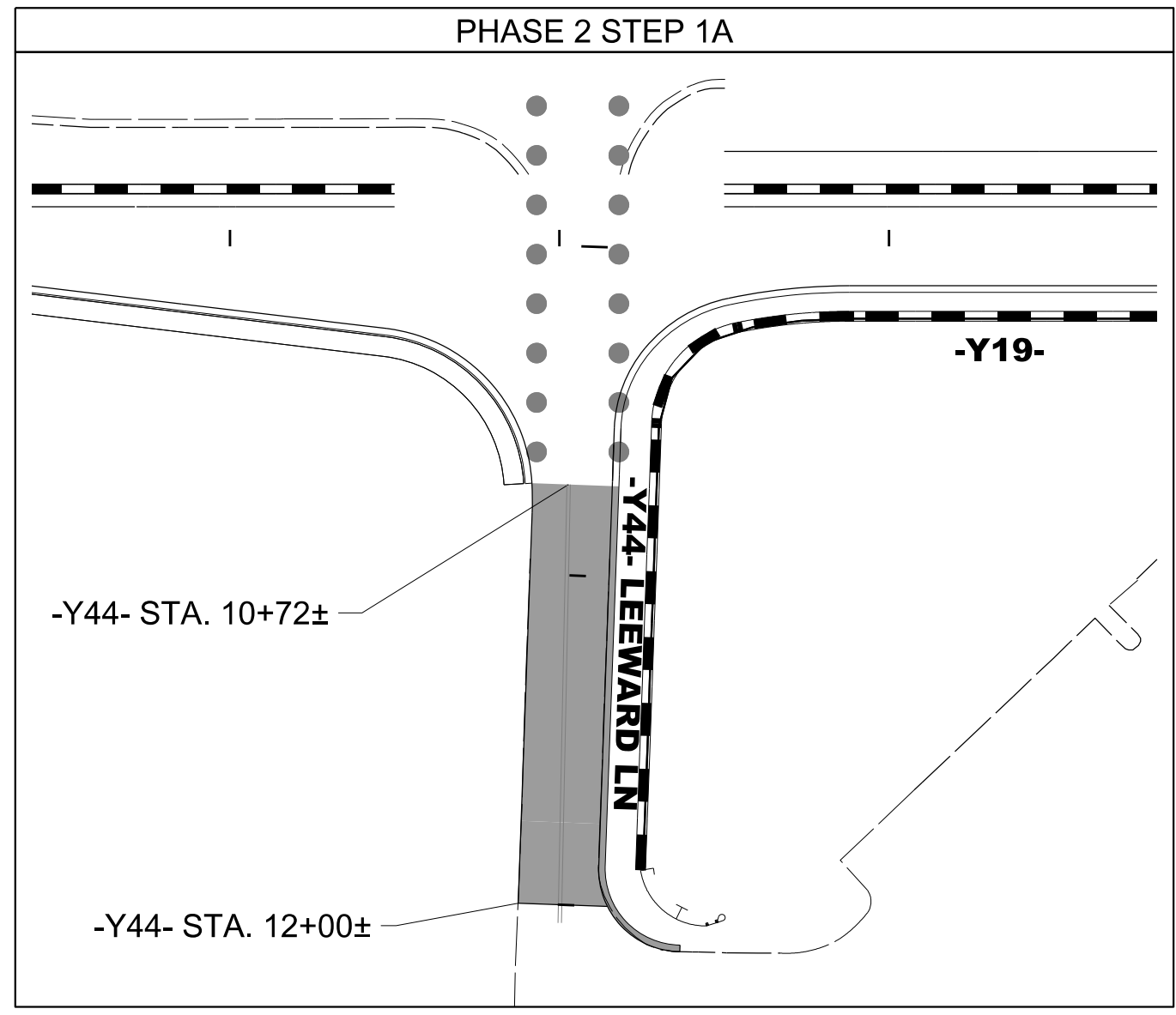


SEE CROSS-SECTIONS ON TMP-56A



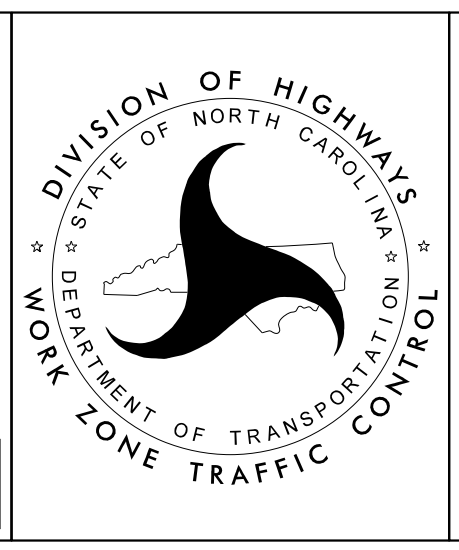
MATCH LINE SHEET TMP-55  
-L- STA. 251+50

MATCH LINE SHEET TMP-57  
-L- STA. 265+00



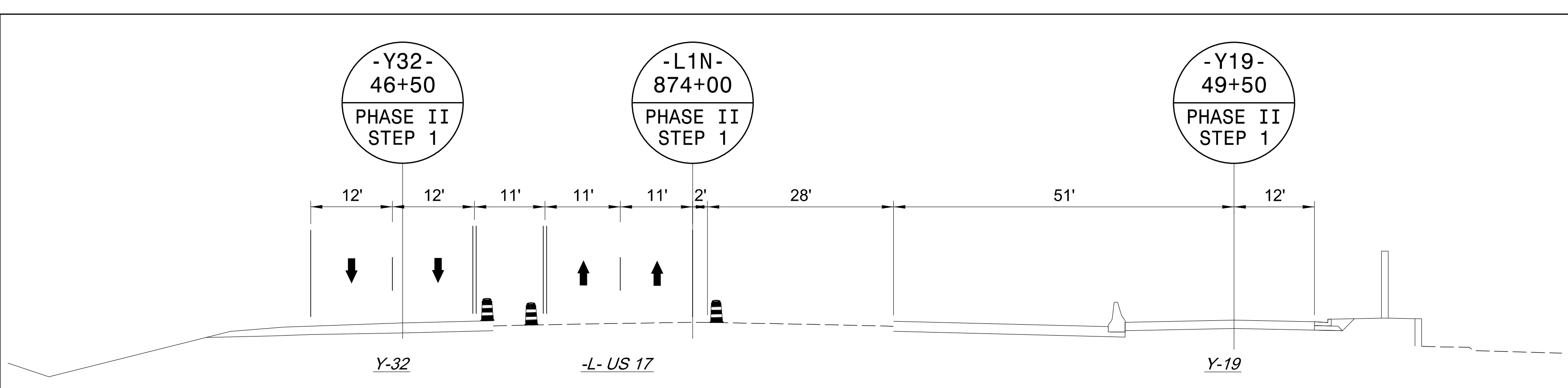
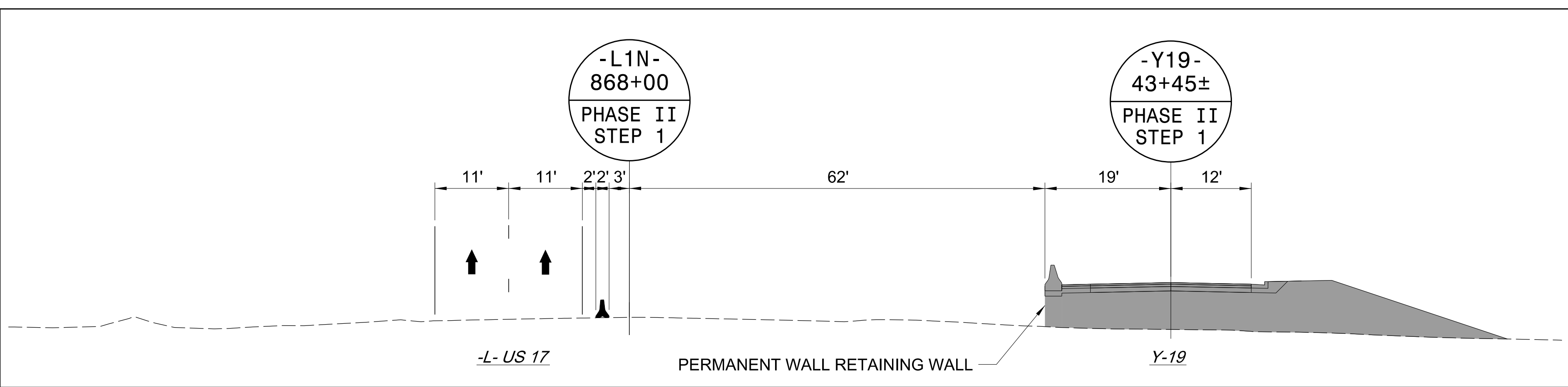
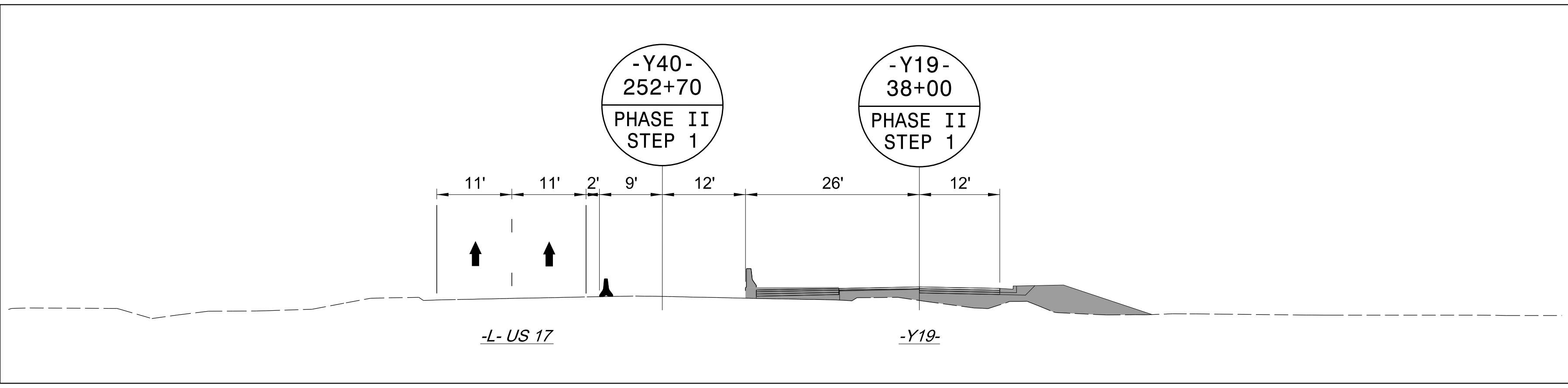
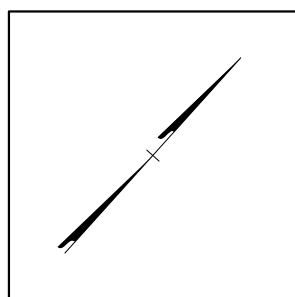
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE II  
 STEP 1

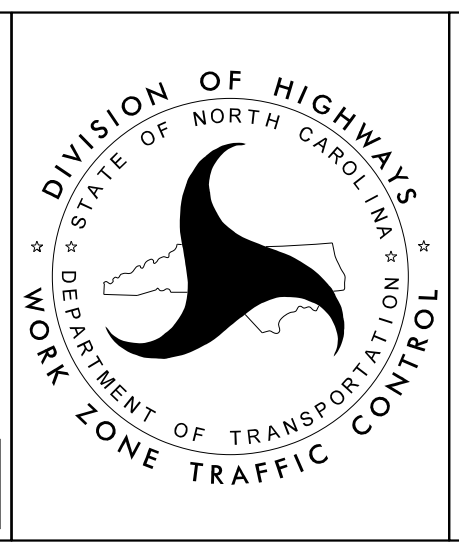
9/24/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\VR-3300B\_TMP\_56\_AREA 5\_PHASE 2\_STEP 1.dgn  
 angood



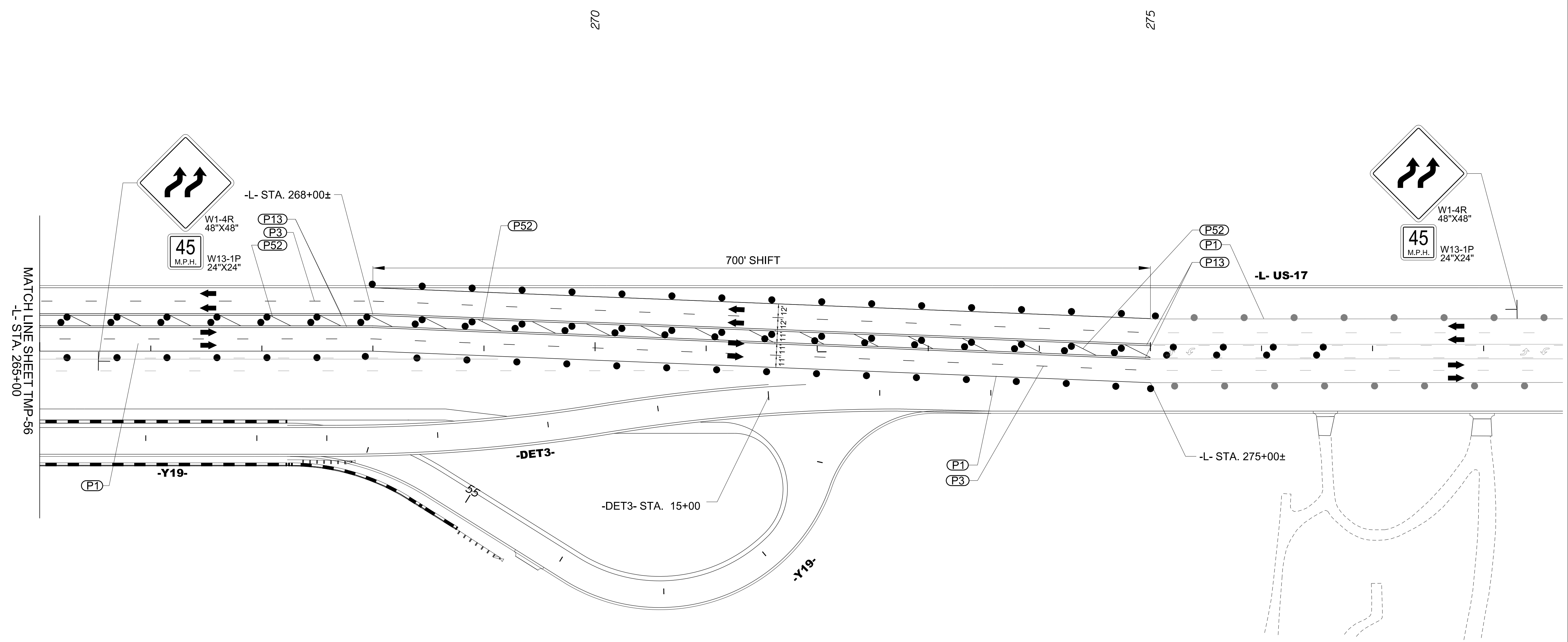
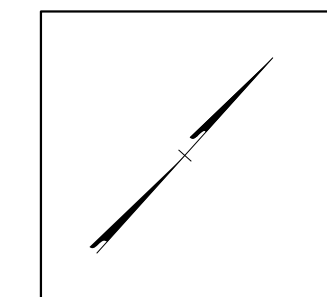
9/24/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_56A\_AREA 5\_PHASE 2\_STEP 1.dgn  
 angood

Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

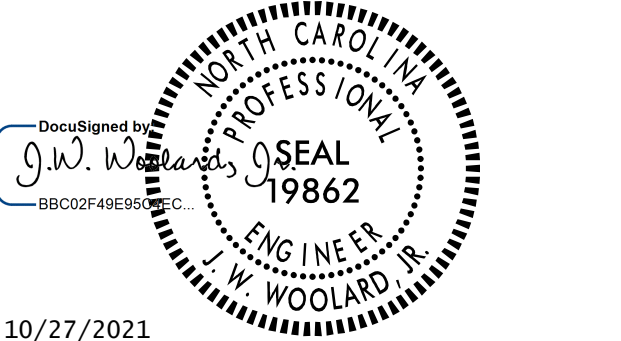


-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE II  
 STEP 1



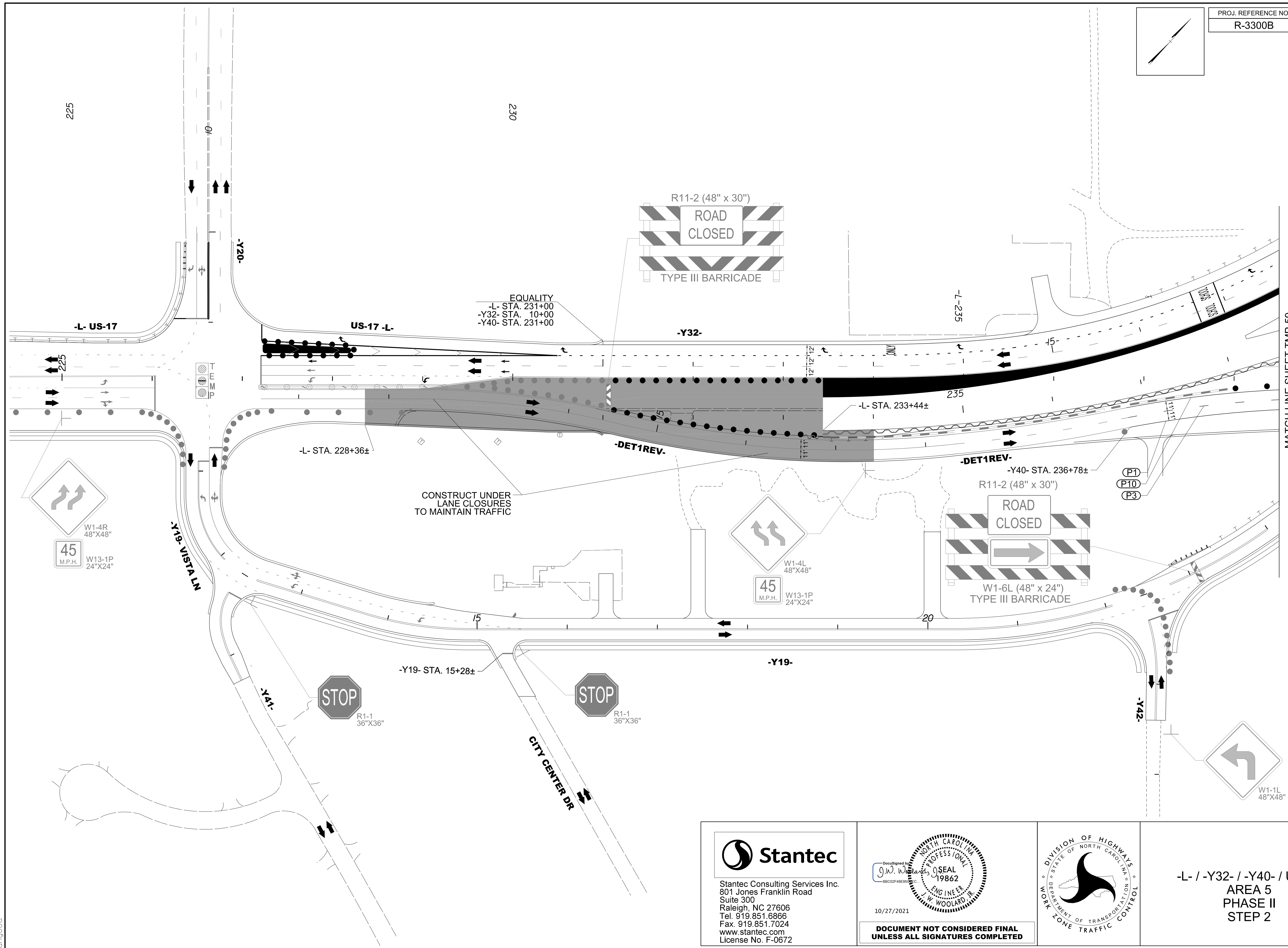
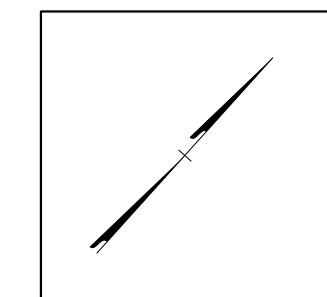
9/24/2021  
 U:\Traffic\Transportation Management Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_57\_AREA 5\_PHASE 2\_STEP 1.dgn  
 angood

  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

Documented by  
  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

DIVISION OF HIGHWAYS  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE II  
 STEP 1

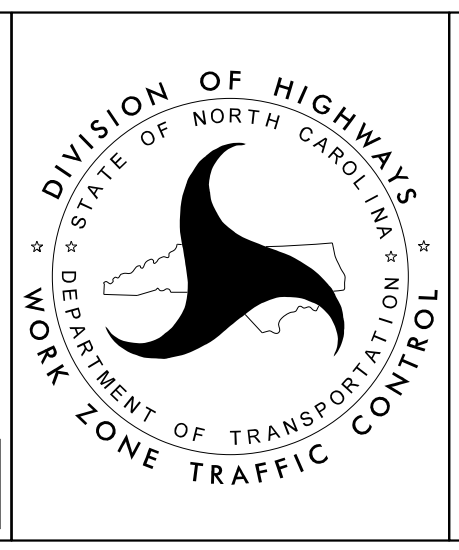


MATCH LINE SHEET TMP-59  
-L- STA. 251+50

10/1/2021  
 U:\Traffic\Transportation Management\Plan\TCP\PLAN SHEETS\IR-3300B\_TMP\_58\_AREA 5\_PHASE 2\_STEP 2.dgn  
 angood

**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. 919.851.6866  
 Fax. 919.851.7024  
 www.stantec.com  
 License No. F-0672

DocuSigned by:  
 J.W. Woolard  
 PROFESSIONAL SEAL  
 19862  
 ENGINEER  
 J. W. WOOLARD, R.  
 10/27/2021  
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**



-L- / -Y32- / -Y40- / US-17  
 AREA 5  
 PHASE II  
 STEP 2