

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN

NEW HANOVER &

PENDER COUNTIES

LOCATION: NC 417 (HAMPSTEAD BYPASS) FROM WILMINGTON BYPASS TO SOUTH OF NC 210

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, AND CULVERTS

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 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT & ENTRANCE RAMPs
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING (SHEETS 1 AND 3)
1251.01	RAISED PAVEMENT MARKERS - PERMANENT & TEMPORARY
1261.01	GUARDRAIL & BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL & BARRIER DELINEATORS - TYPES & MOUNTING
1262.01	GUARDRAIL END DELINEATION

GENERAL NOTES

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.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | | | |
|--------------|---------------|------------------|
| ROAD NAME | MARKING | MARKER |
| ALL ROADS | THERMOPLASTIC | SNOWPLOWABLE |
| BRIDGE DECKS | POLYUREA | PERMANENT RAISED |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS.

PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

MITCH EATON, P.E.	SIGNING & DELINEATION REGIONAL ENGINEER
STACEY JOHNS	SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY:

JAY W. WOOLARD, P.E.	SENIOR TRANSPORTATION ENGINEER
ANDREW N. GOOD	TRANSPORTATION DESIGNER



Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27608
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

INDEX

SHEET NO.	DESCRIPTION
PMP - 1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP - 1A	REVISED ROADWAY STANDARD DRAWINGS
PMP - 2 - 52	PAVEMENT MARKING DETAIL - R-3300A
PMP - 53 - 55	PAVEMENT MARKING DETAIL - R-3300B

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R-3300A

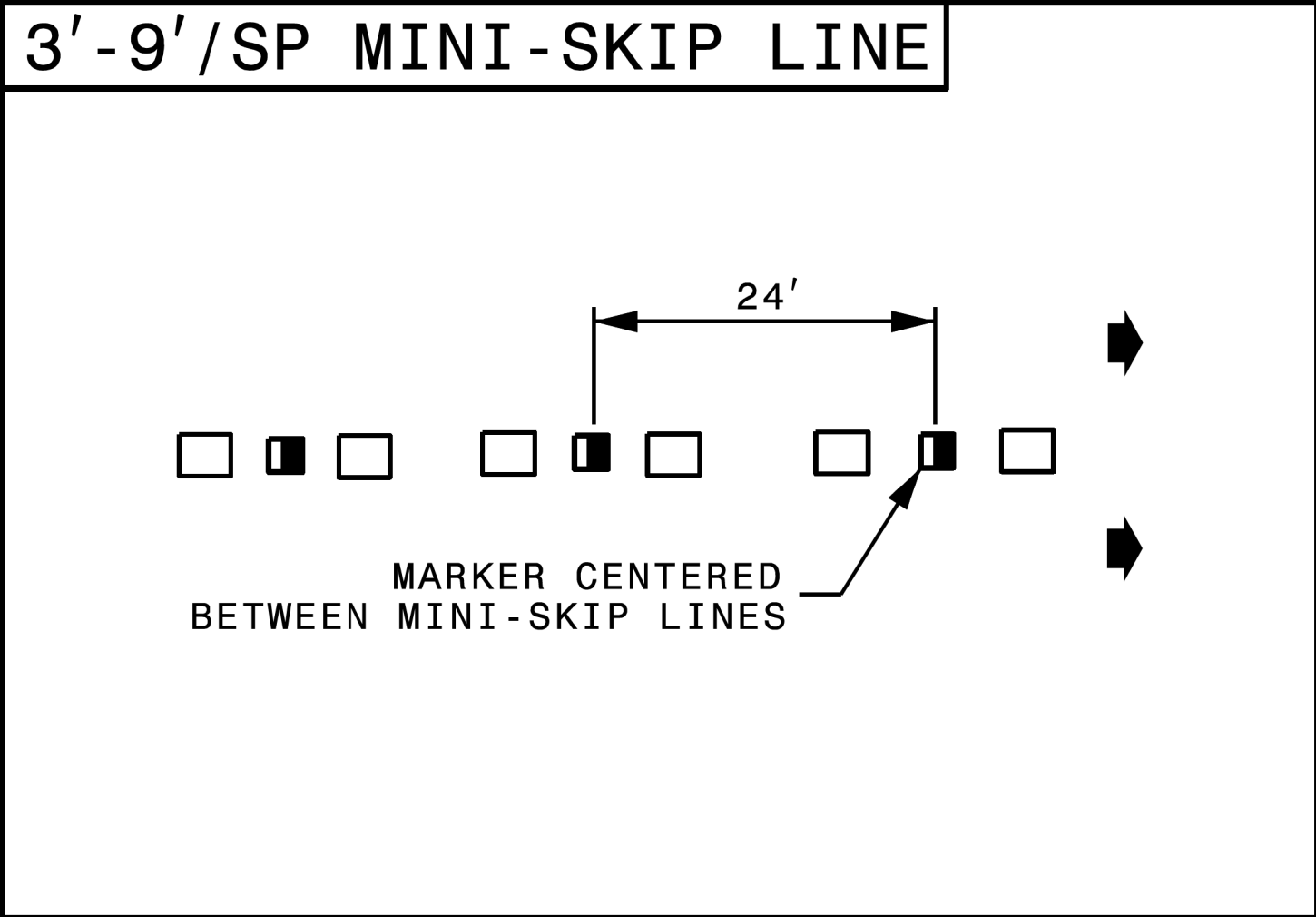
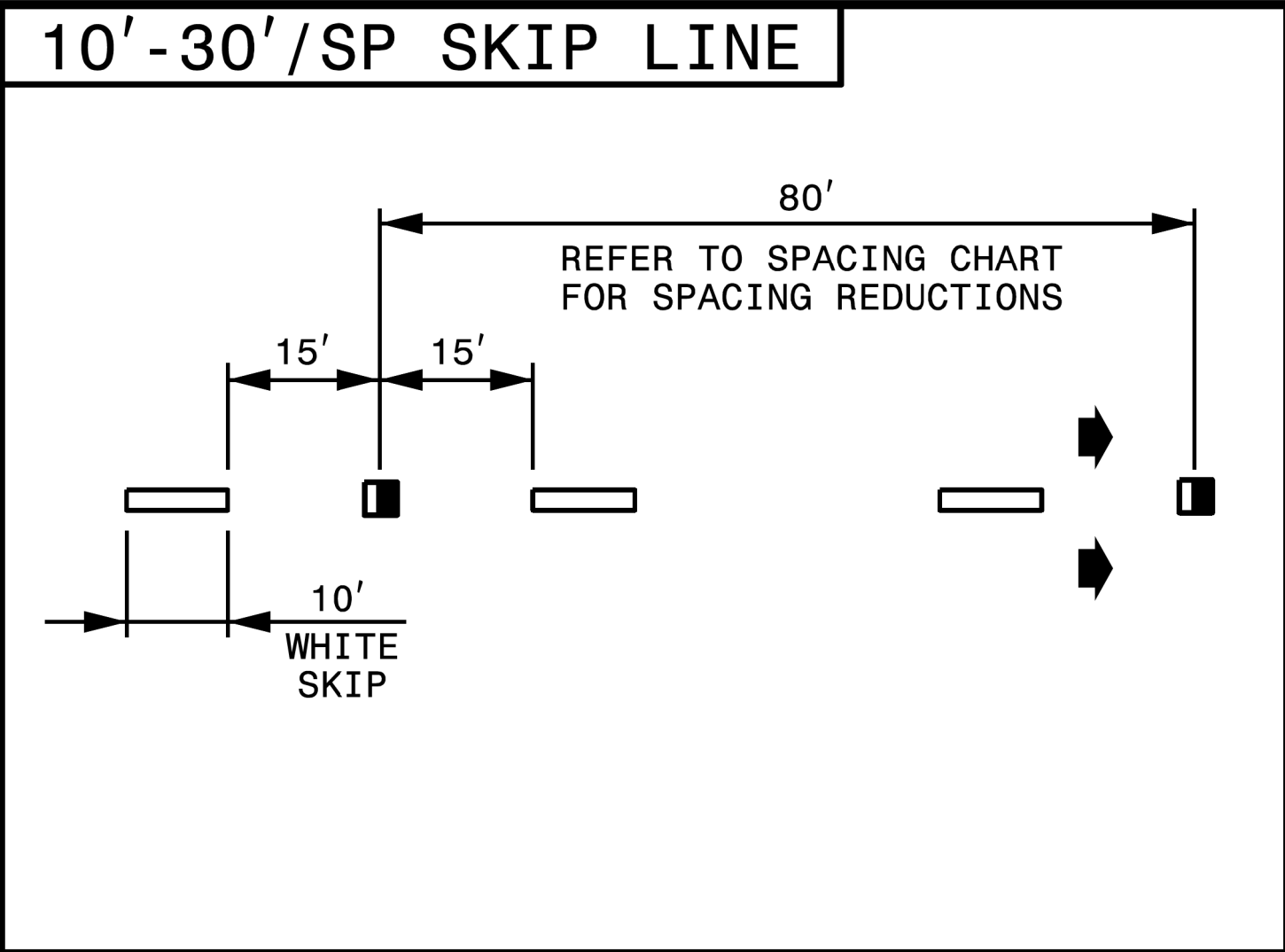
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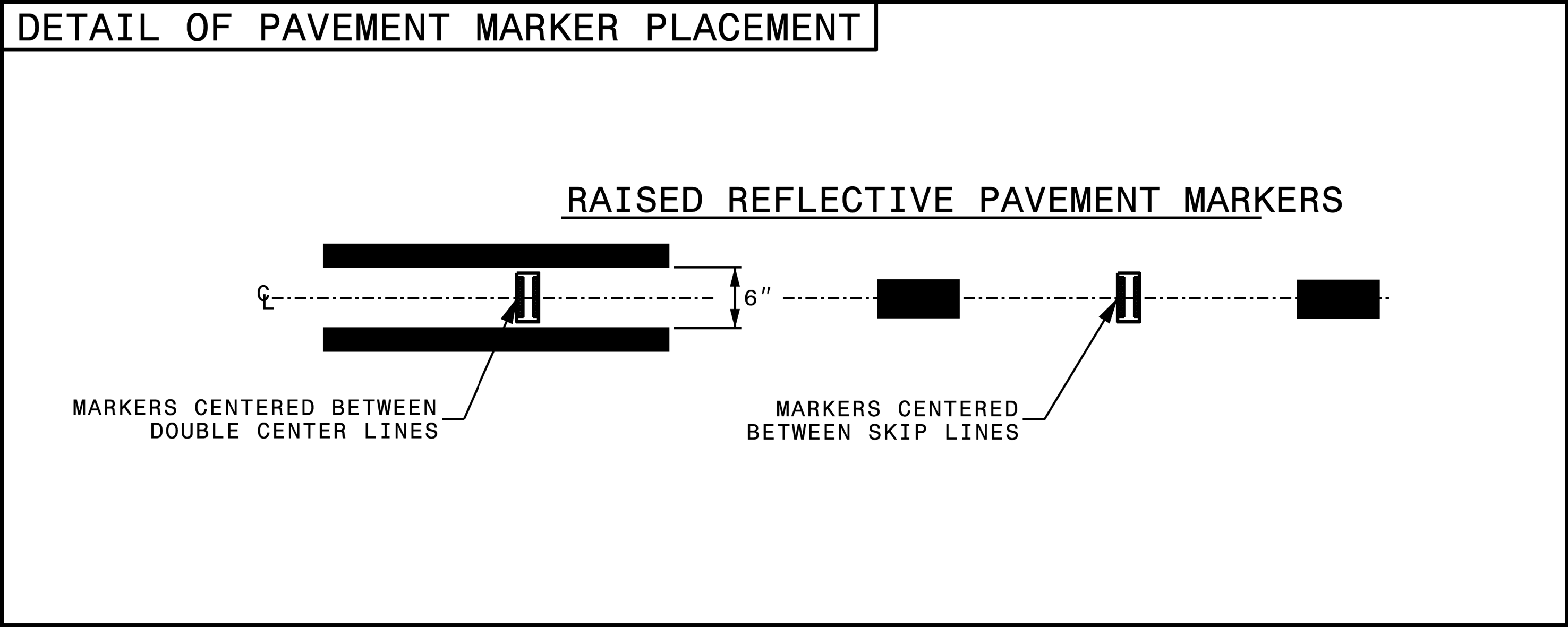
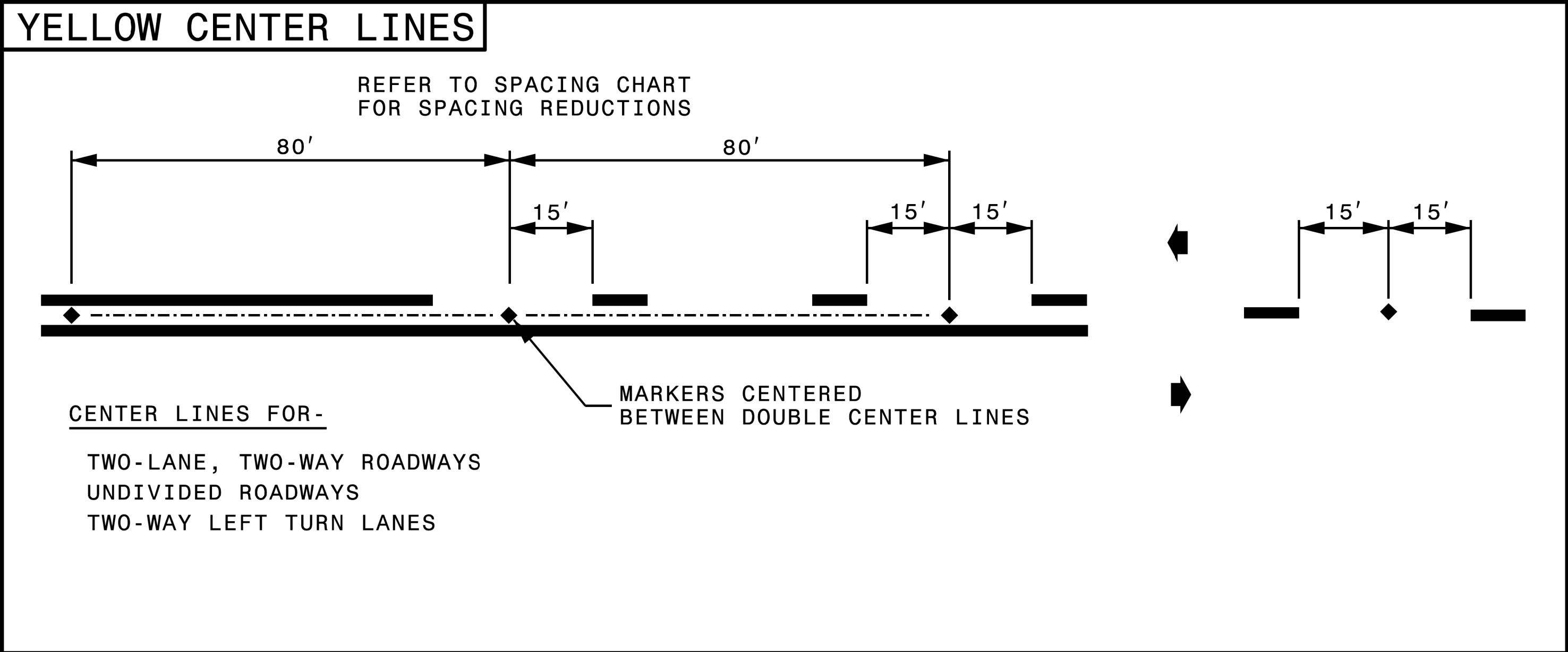
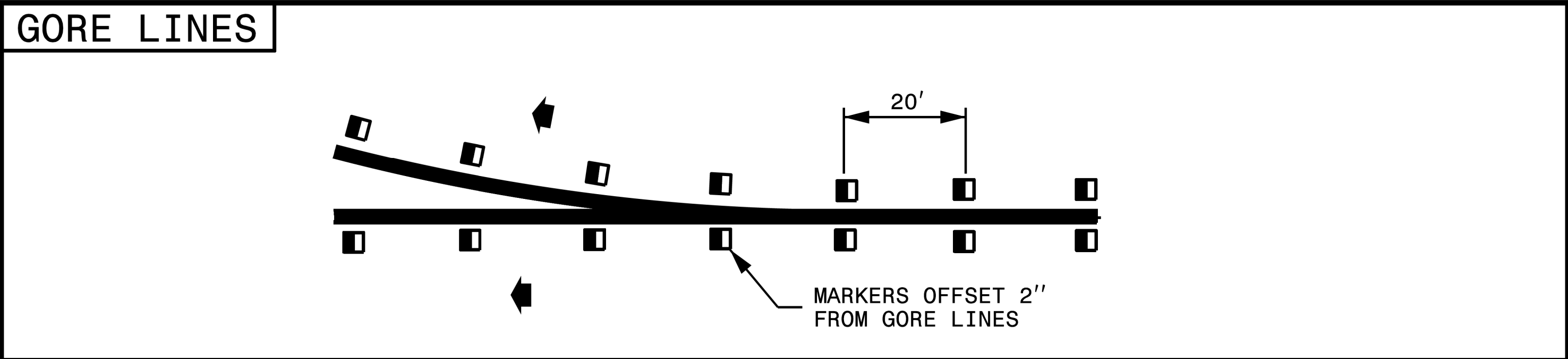
3/31/2025

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LEGEND

- CRYSTAL/RED PAVEMENT MARKER
- YELLOW/YELLOW PAVEMENT MARKER
- DIRECTION OF TRAFFIC FLOW



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

ROADWAY DETAIL DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

SHEET 2 OF 3
1250D01

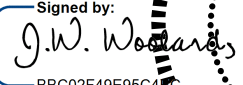
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ENGINEER
MATTHEW V. SPRINGER
3/17/2025

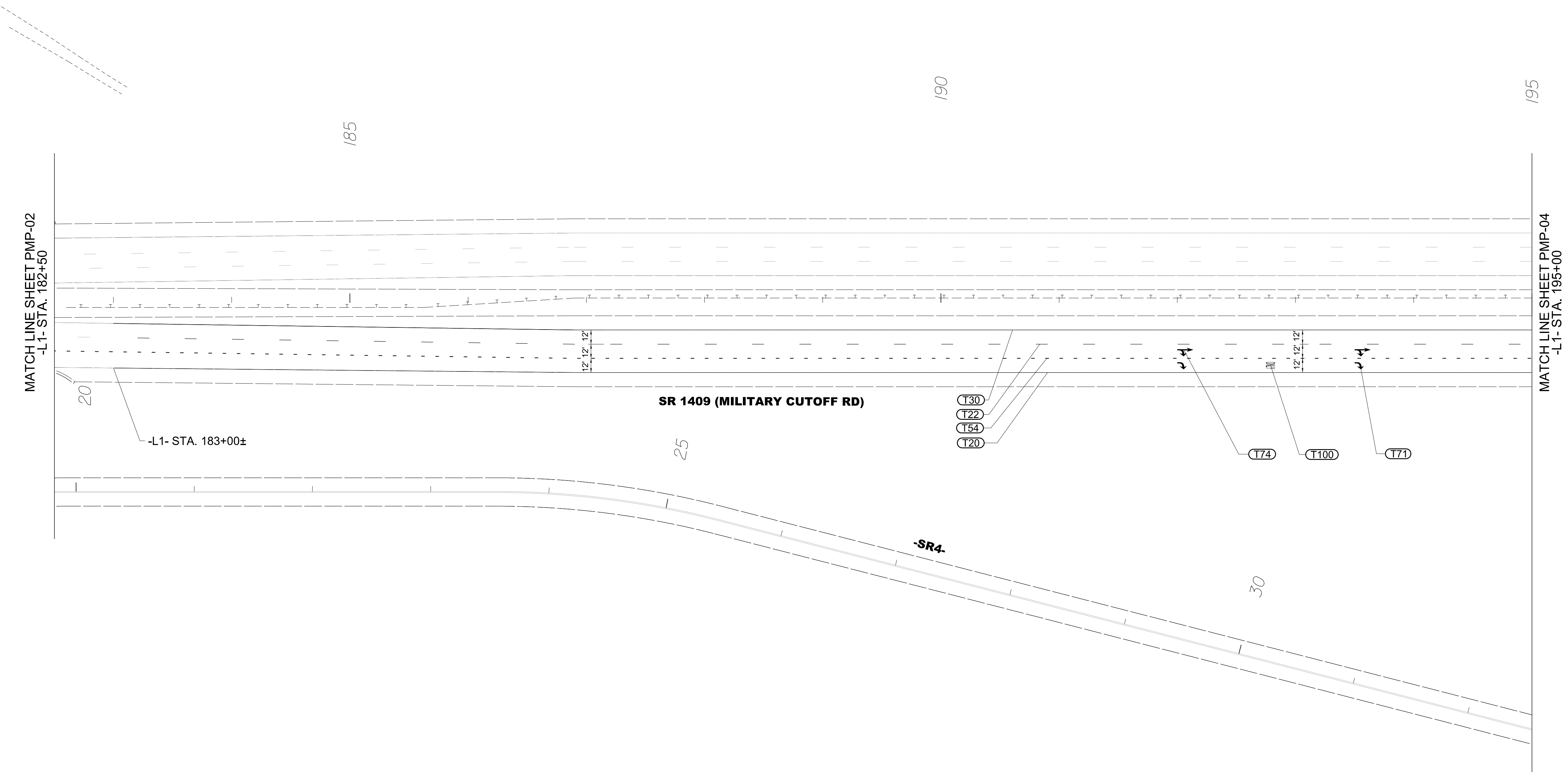
CONTRACTS STANDARDS AND DEVELOPMENT UNIT
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

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MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

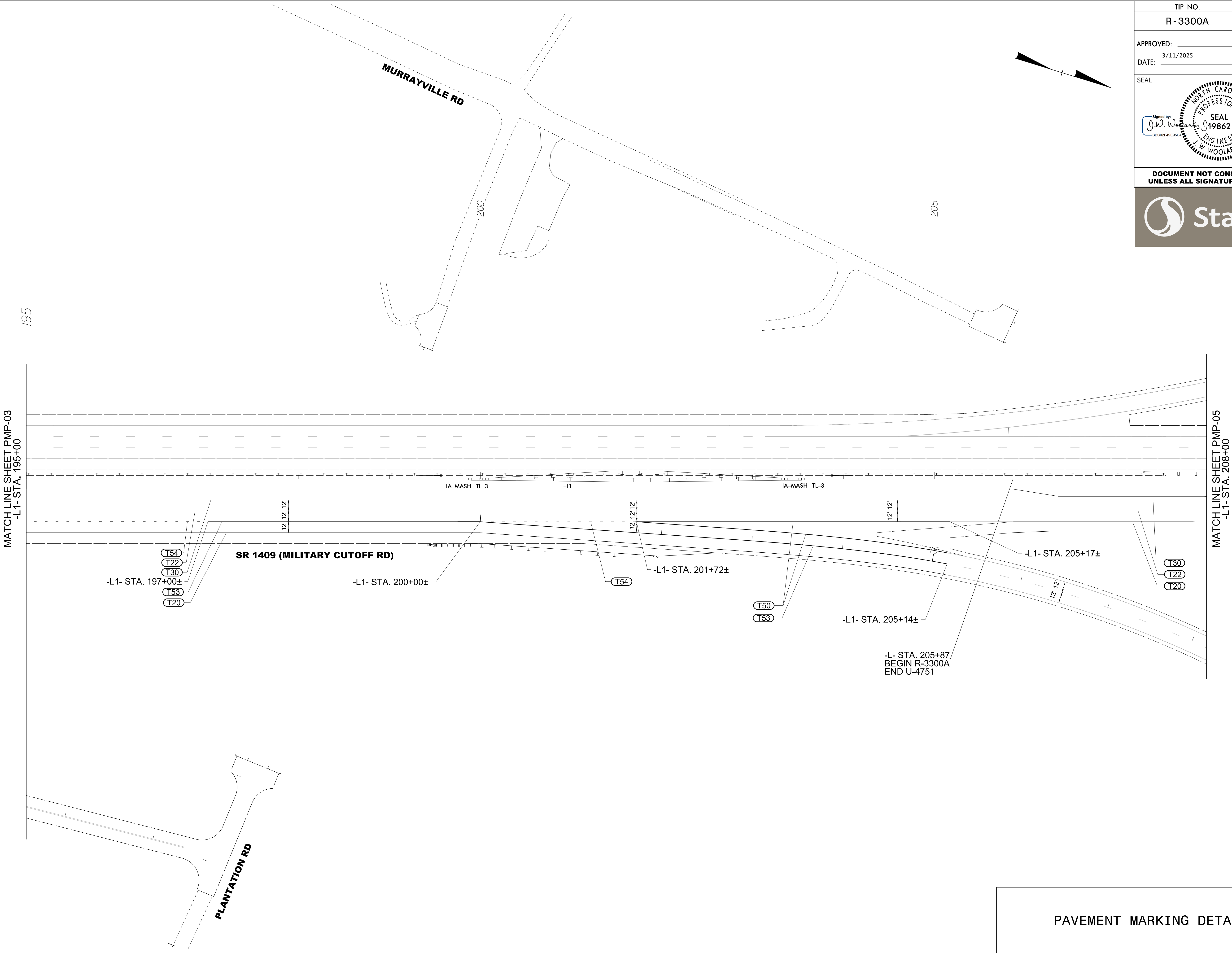
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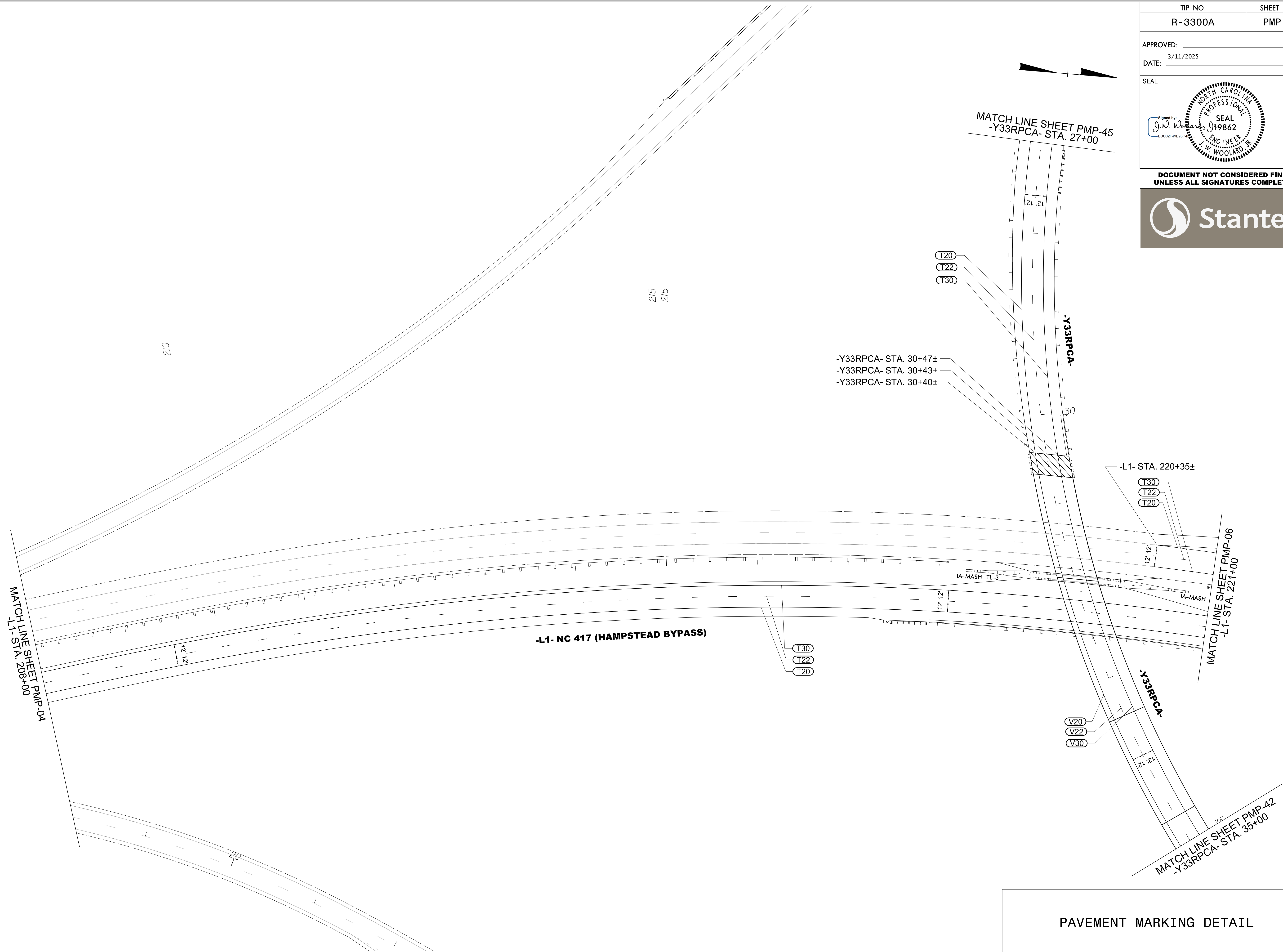


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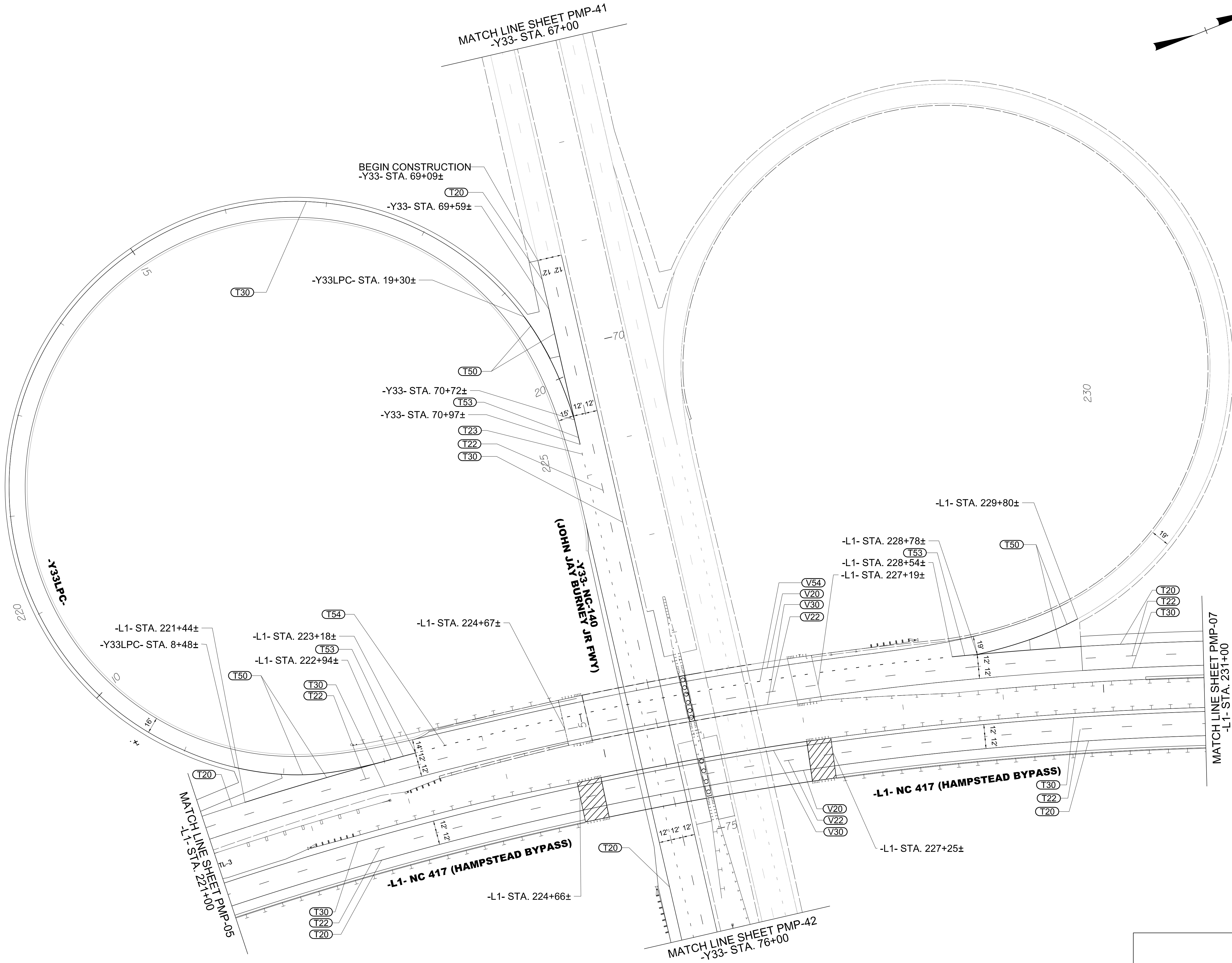
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 Stantec	



PAVEMENT MARKING DETAIL



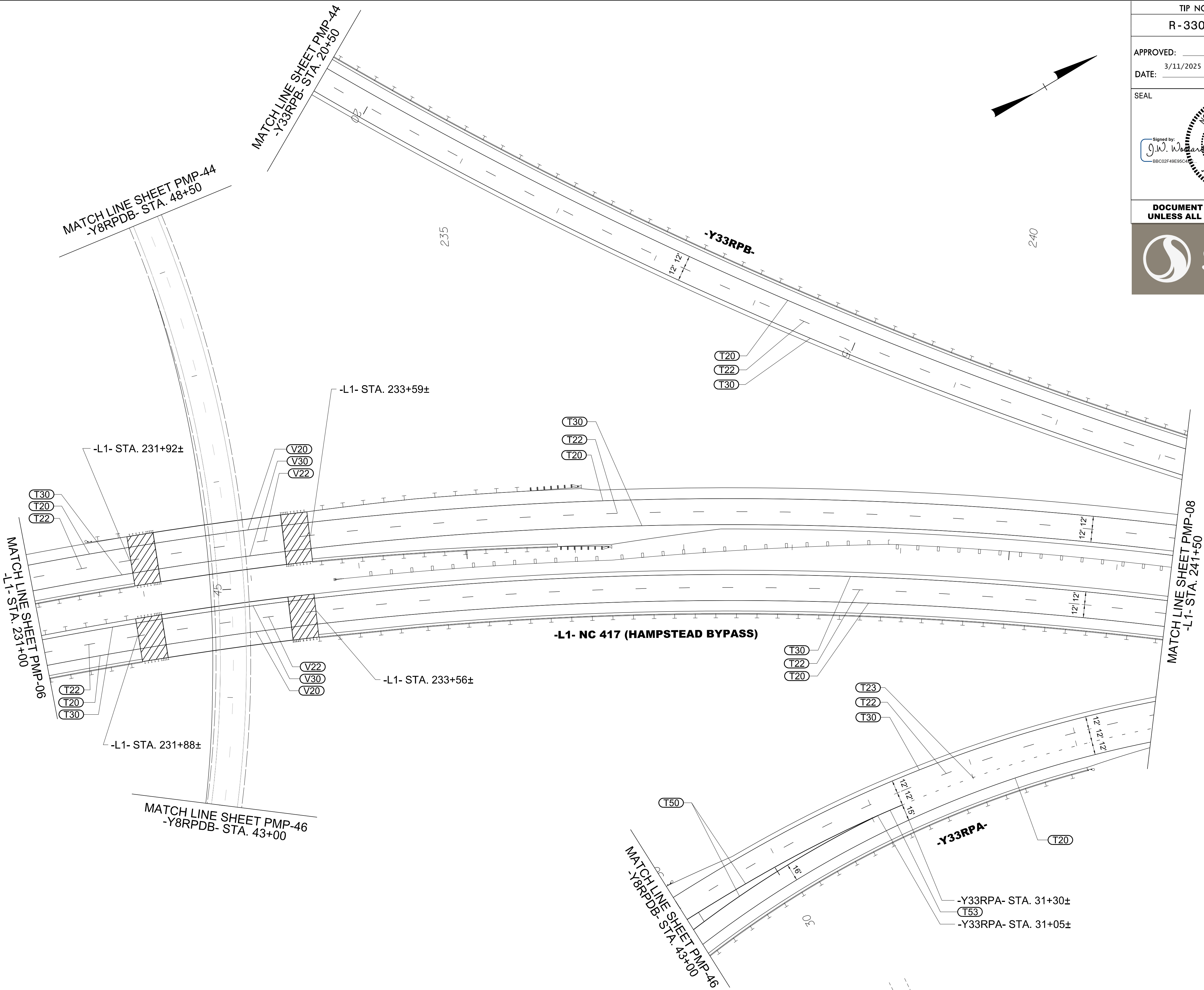
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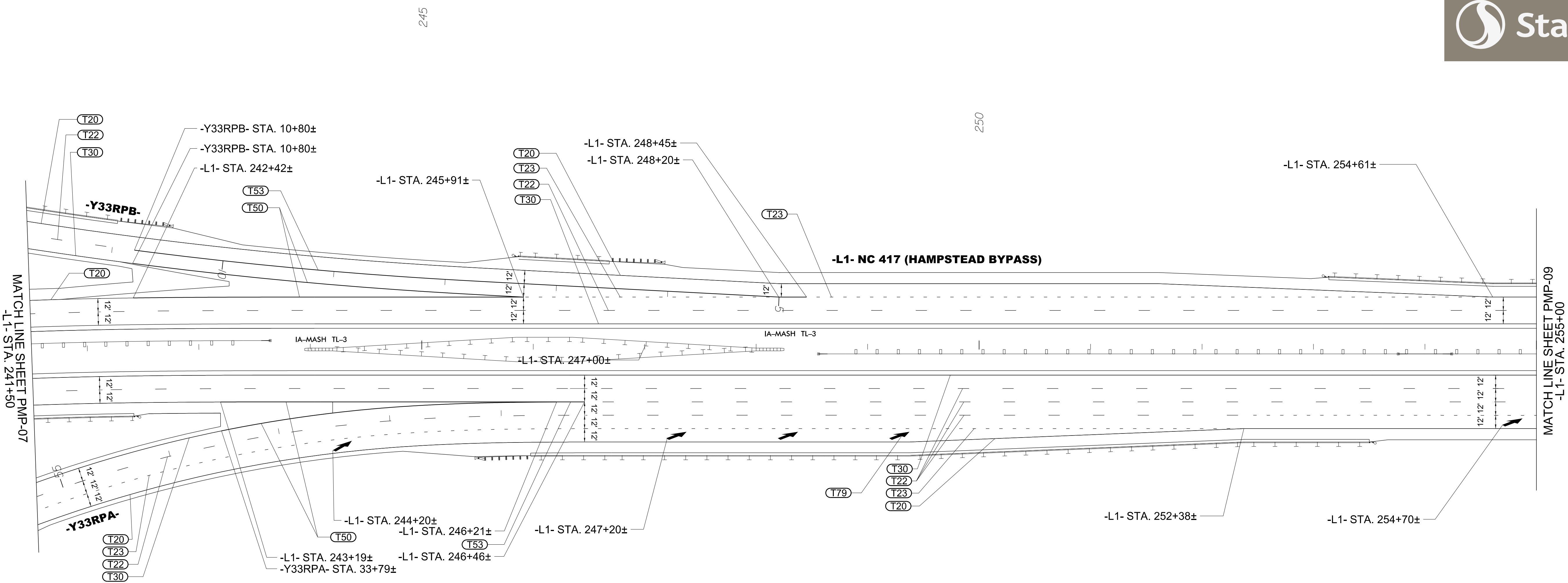
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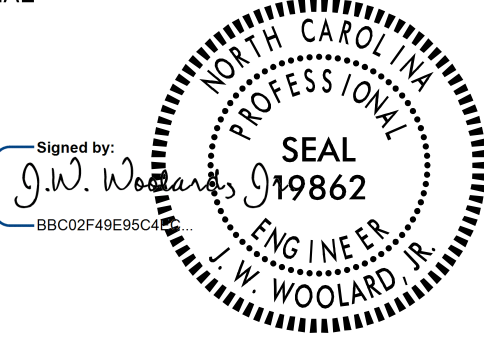
NORTH CAROLINA
PROFESSIONAL
ENGINEER
19862
J.W. WOOLARD JR.

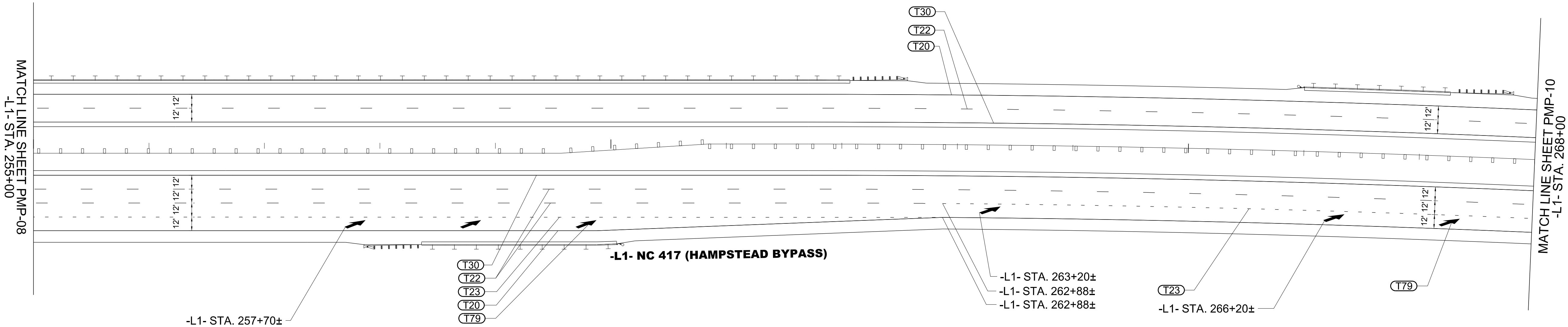
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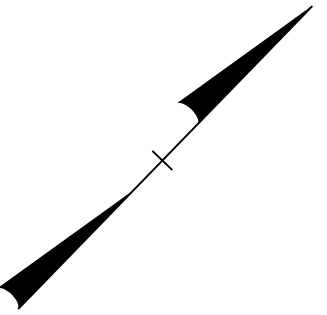
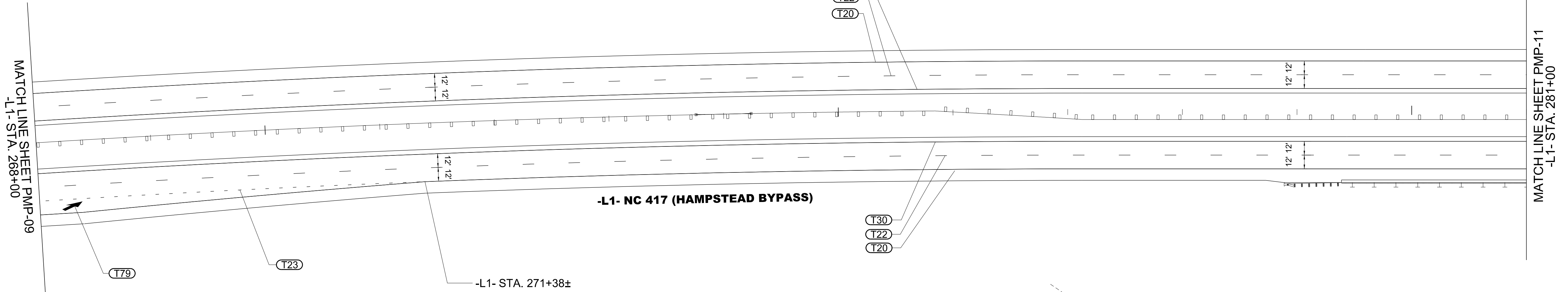
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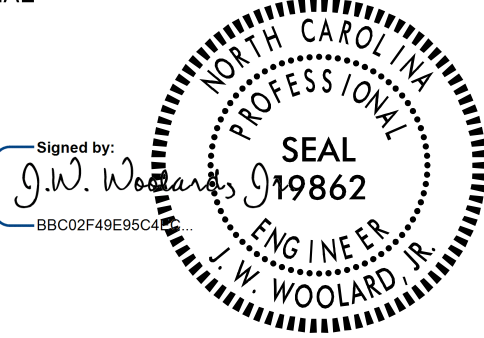


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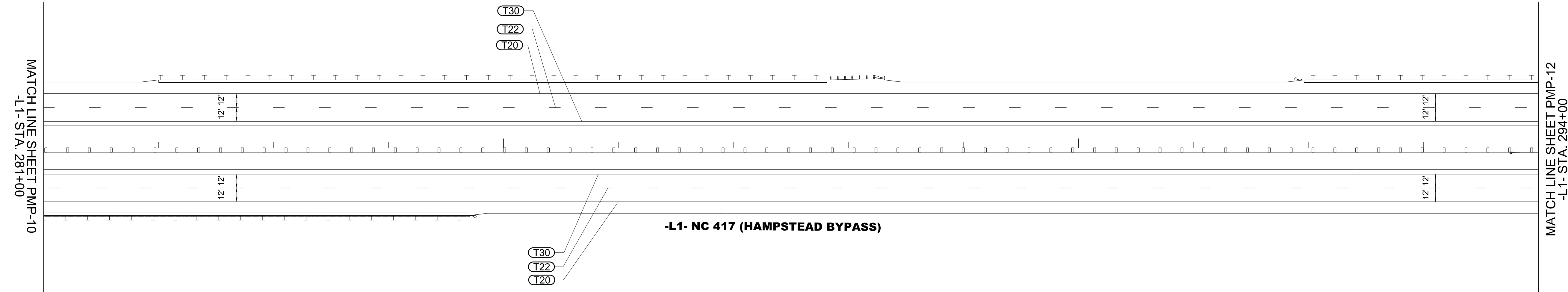


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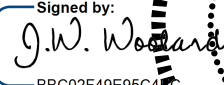
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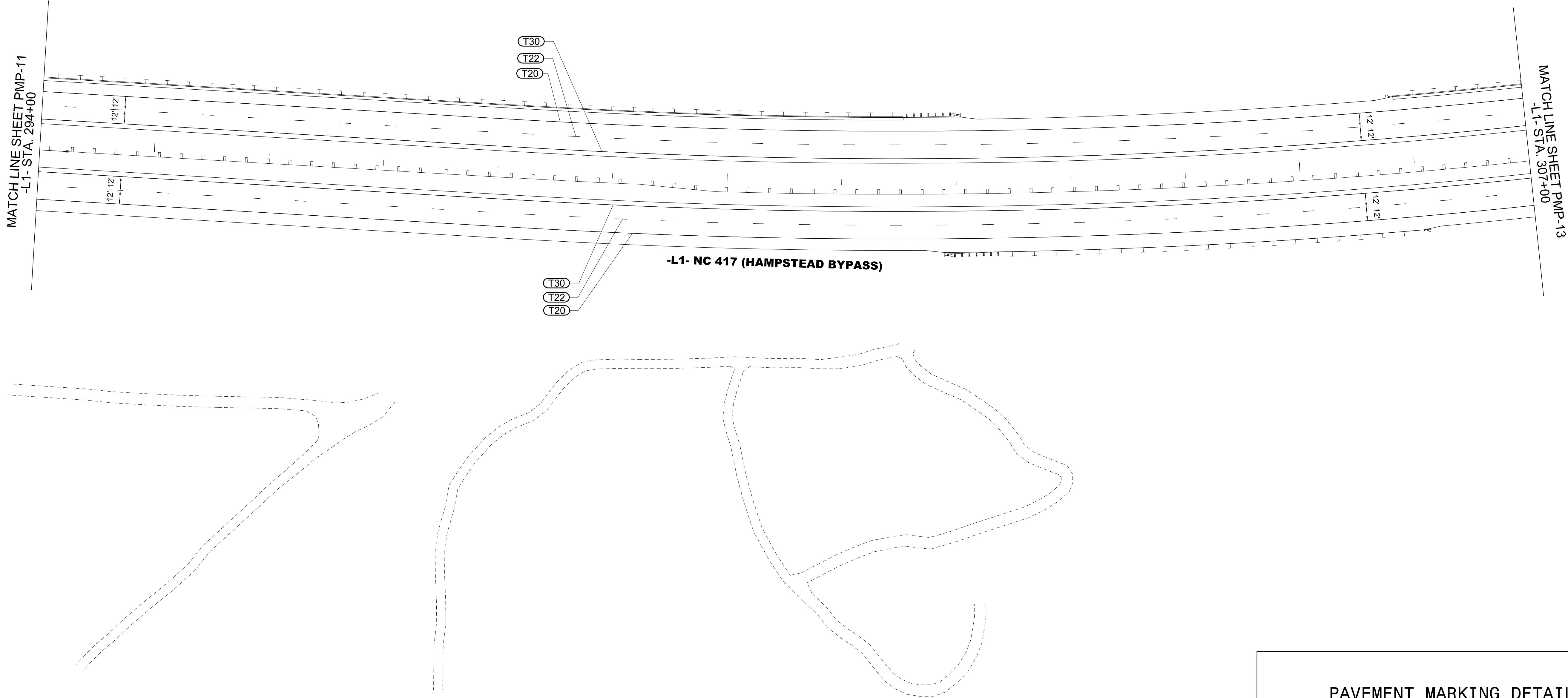
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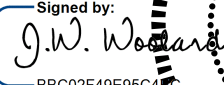


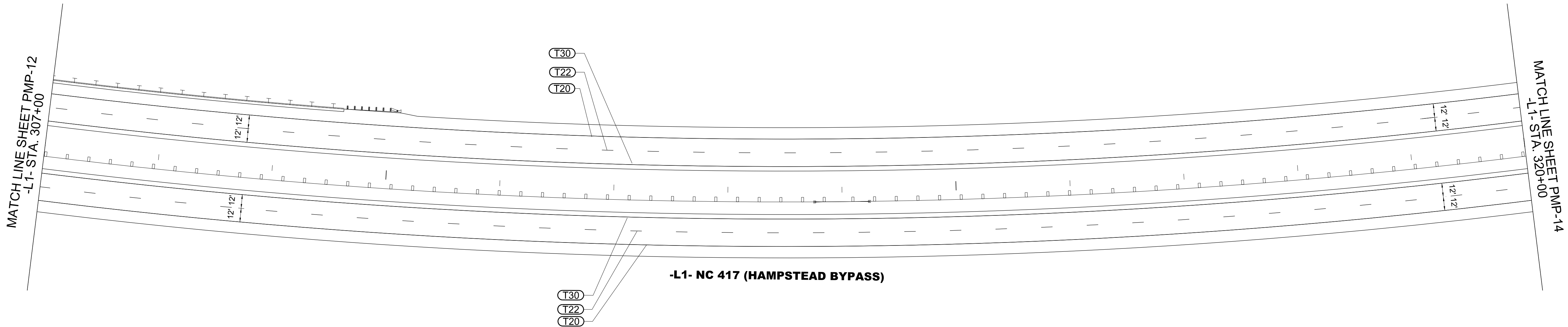
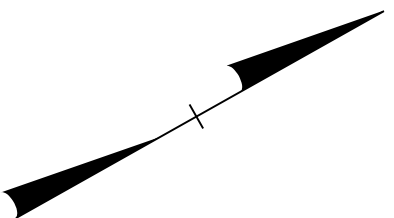
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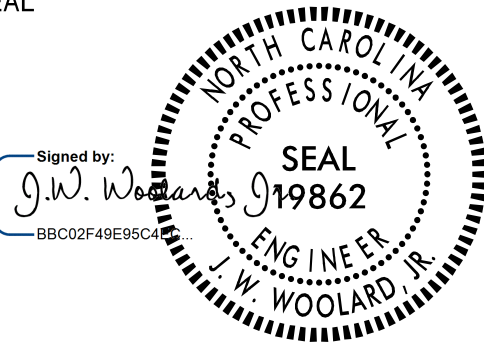
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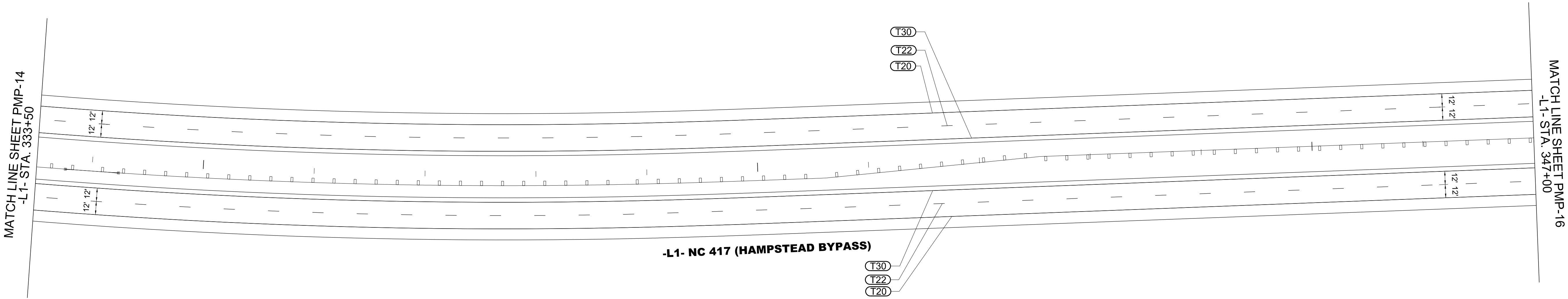
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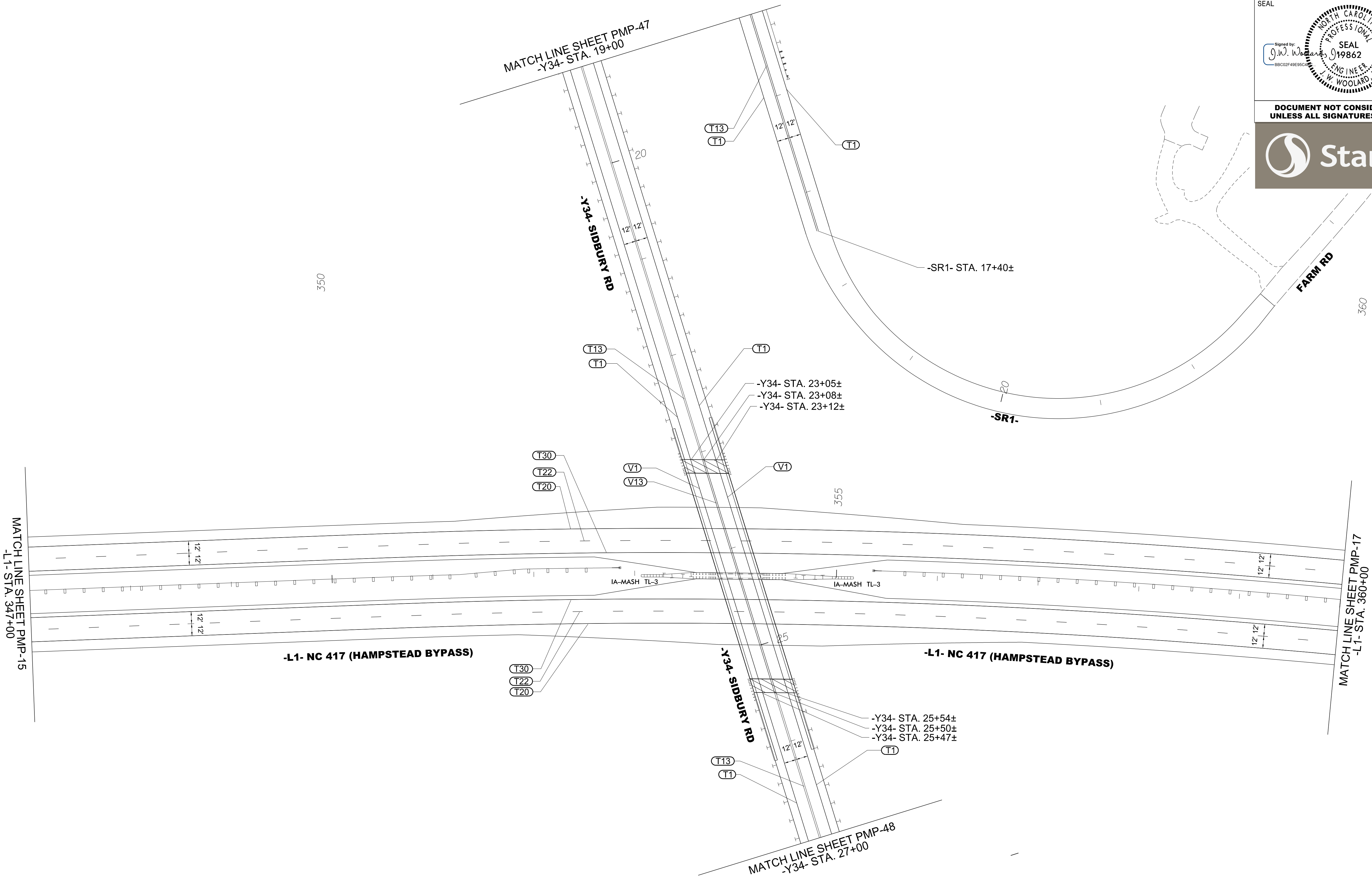


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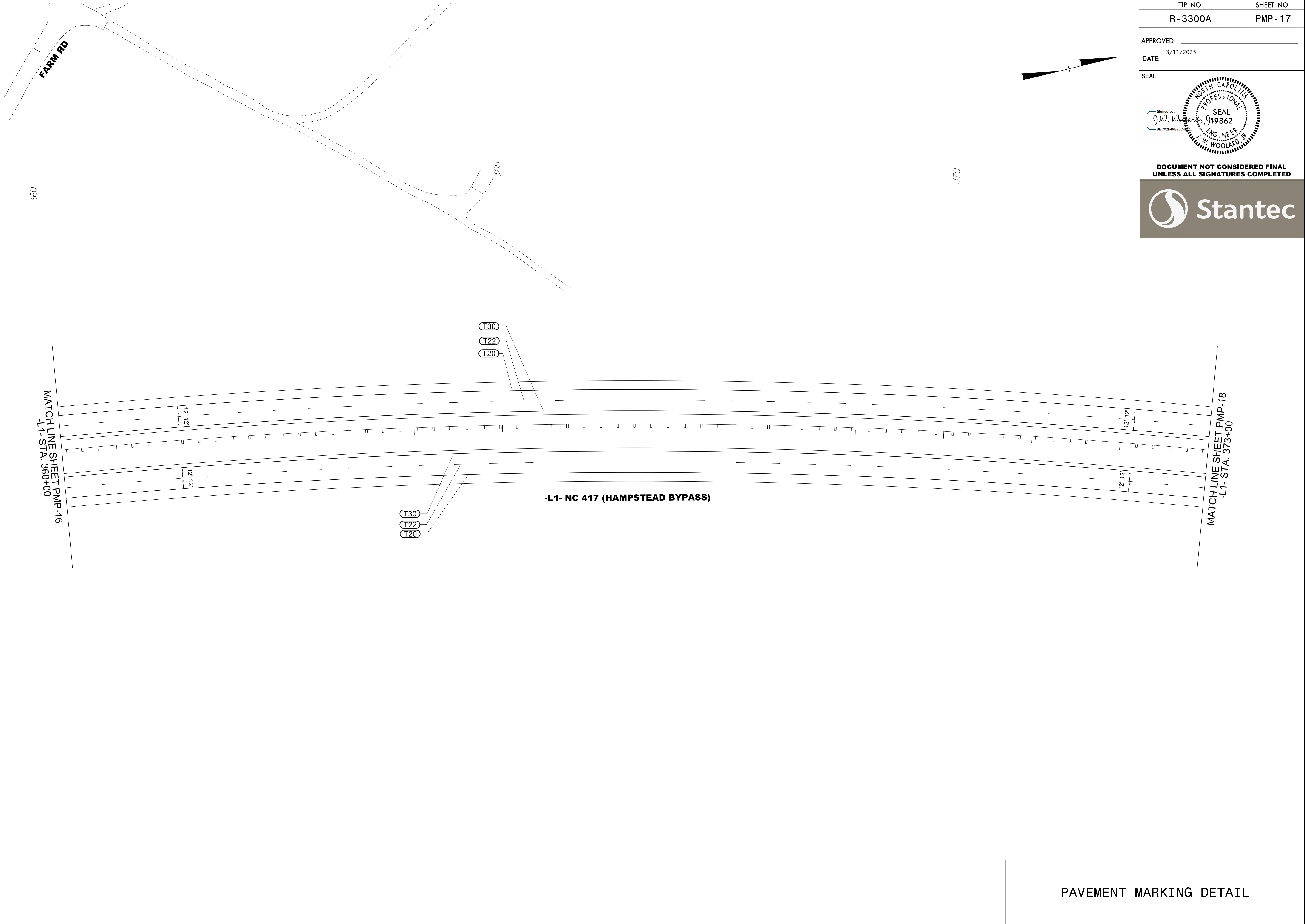
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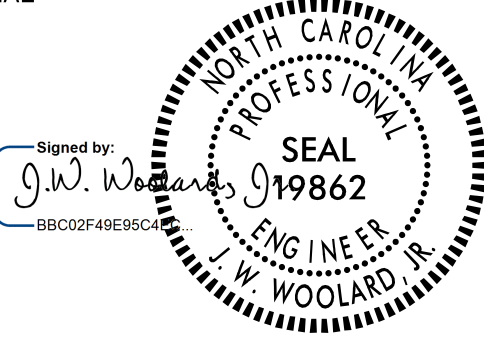
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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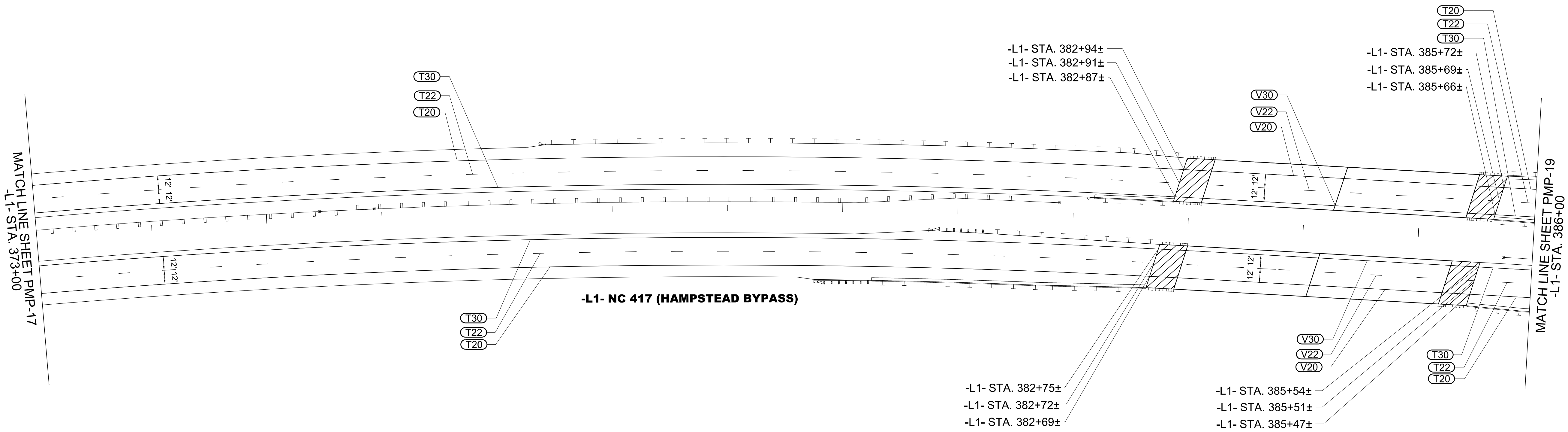


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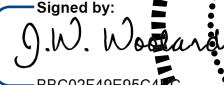
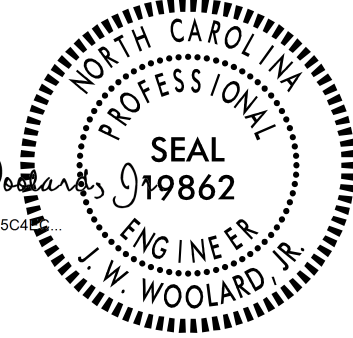
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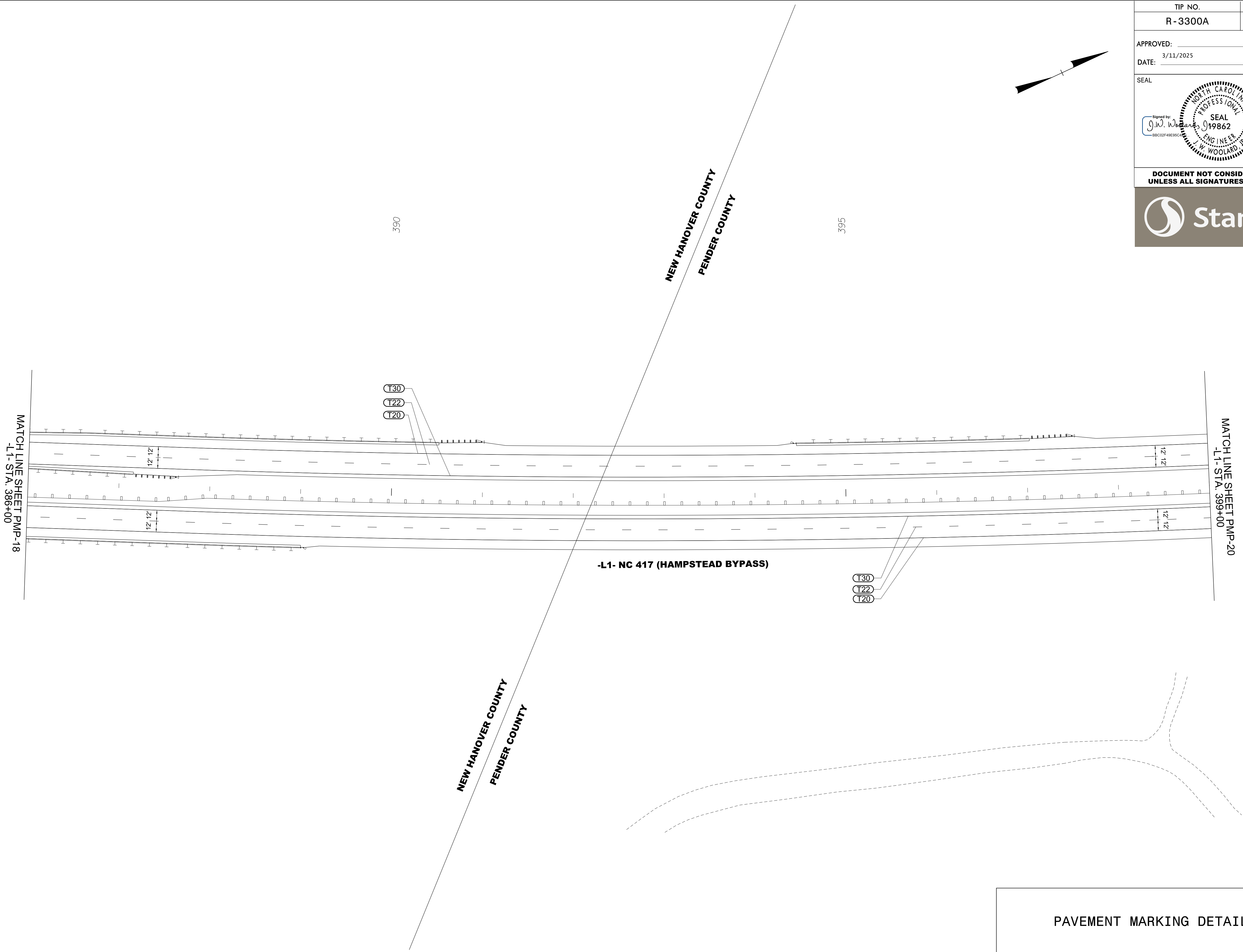
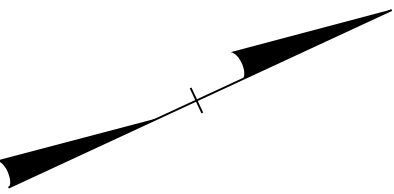


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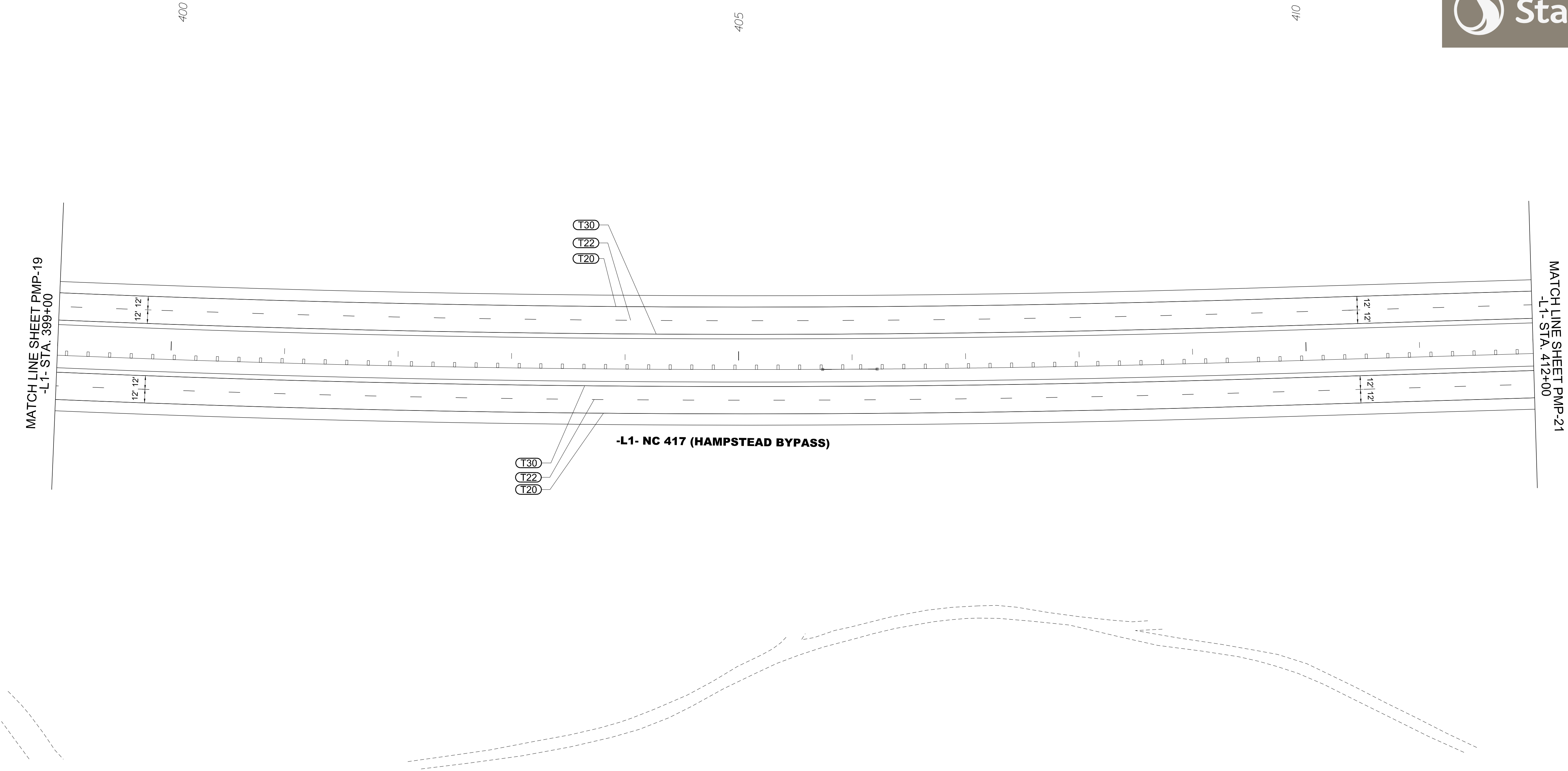
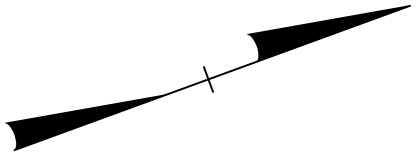
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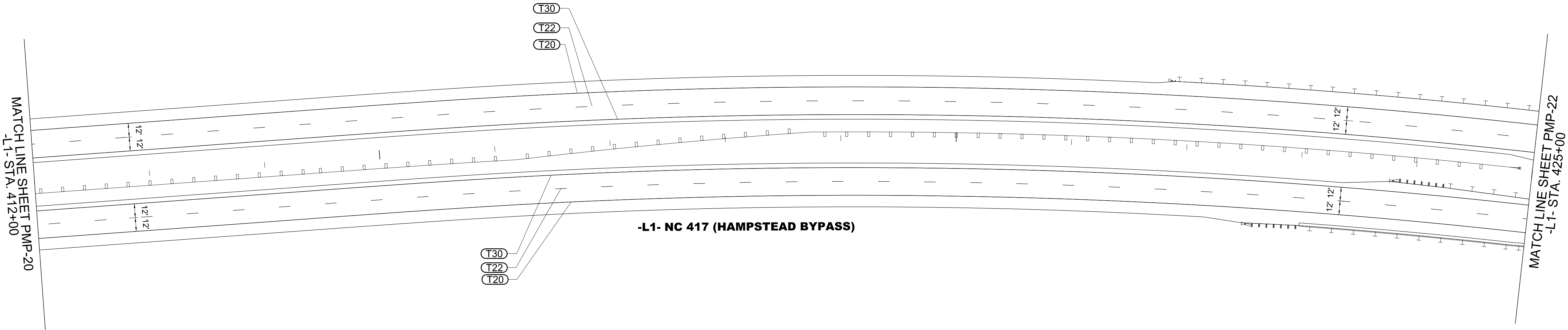
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Signed by: J.W. Woolard Jr. 380C12F48E95CA NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLARD JR.	
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PAVEMENT MARKING DETAIL

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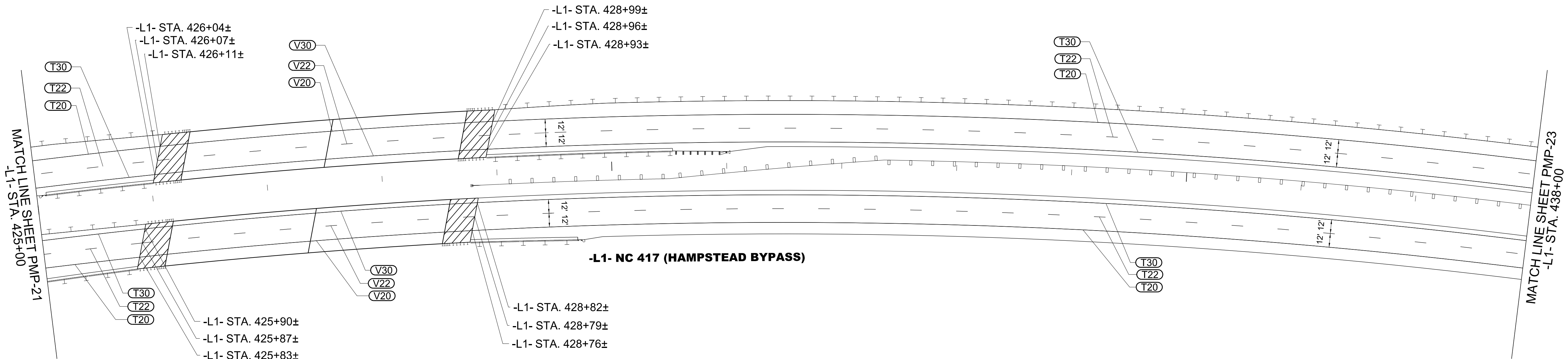
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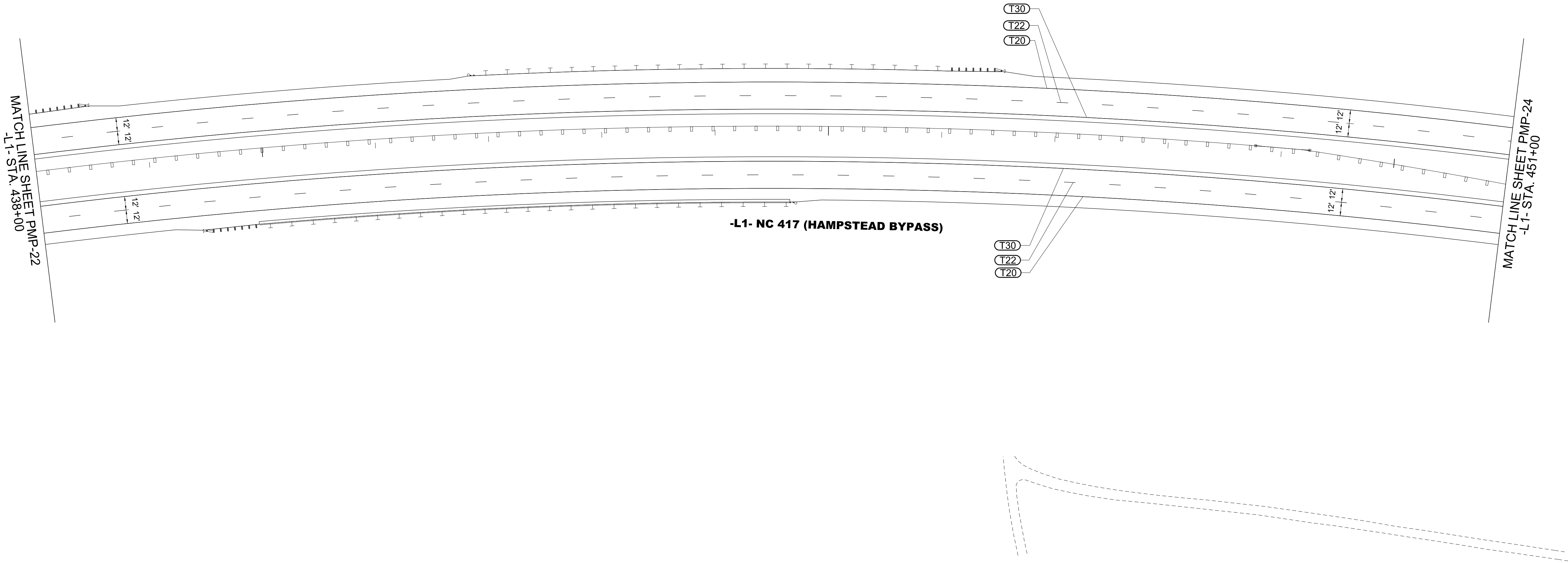
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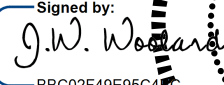


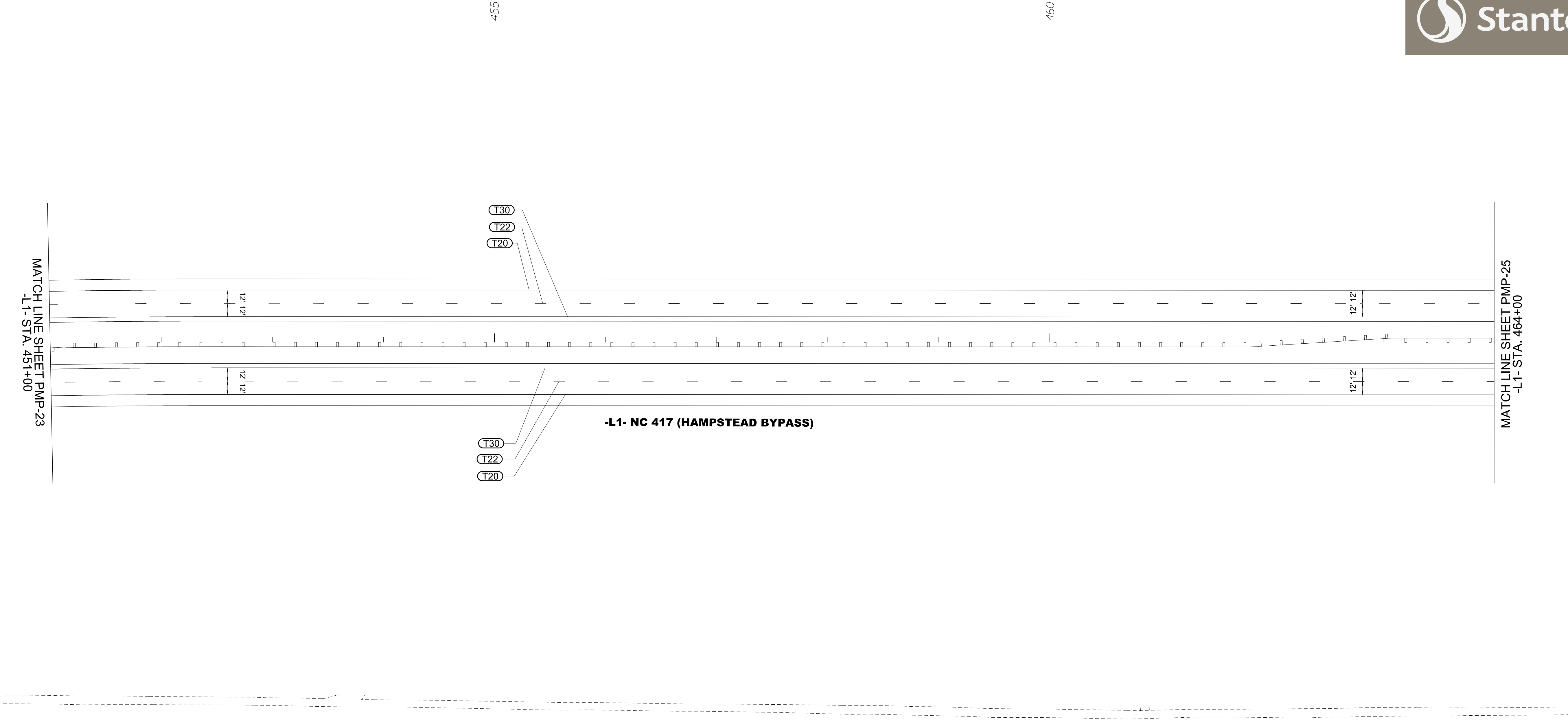
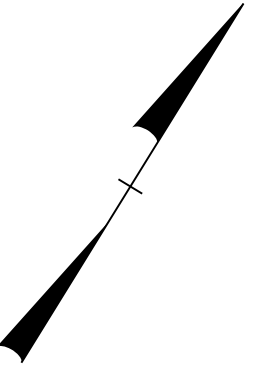
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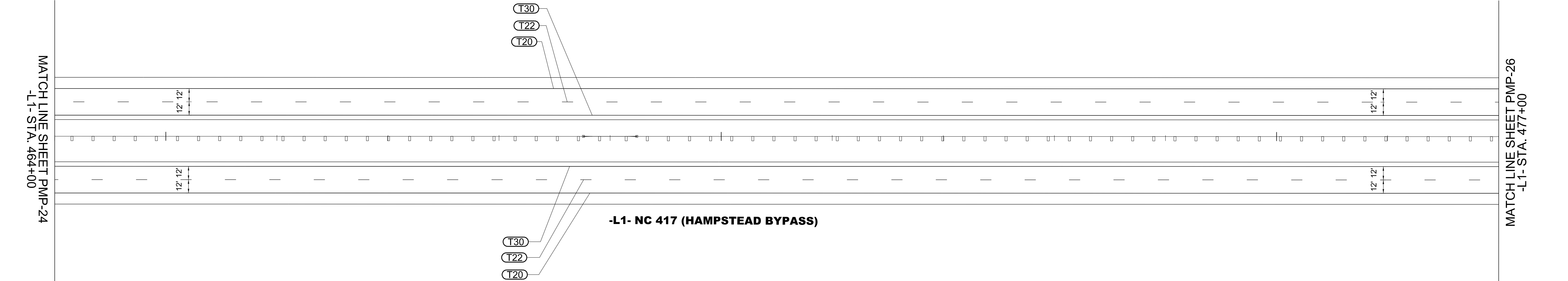
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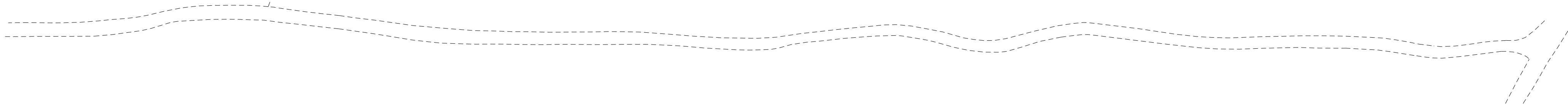
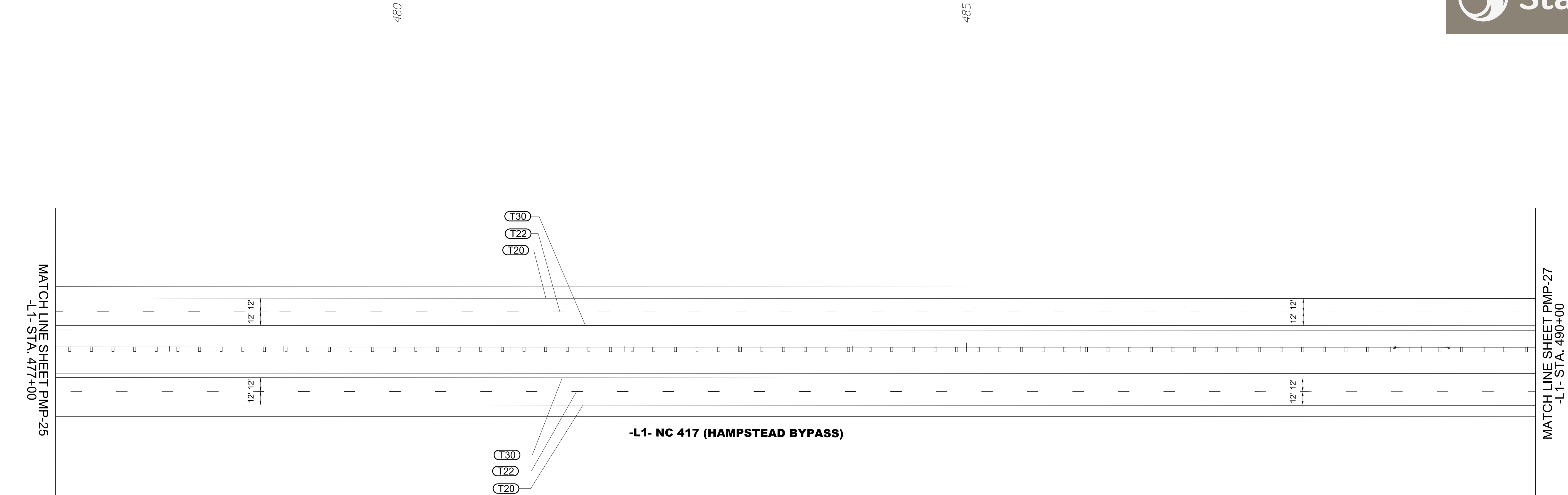
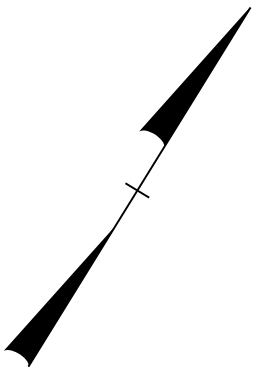
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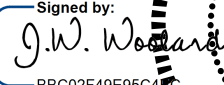


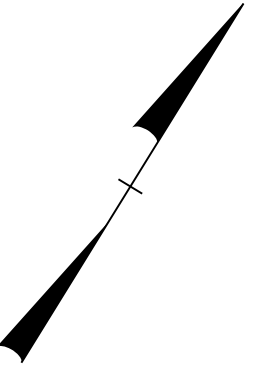
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

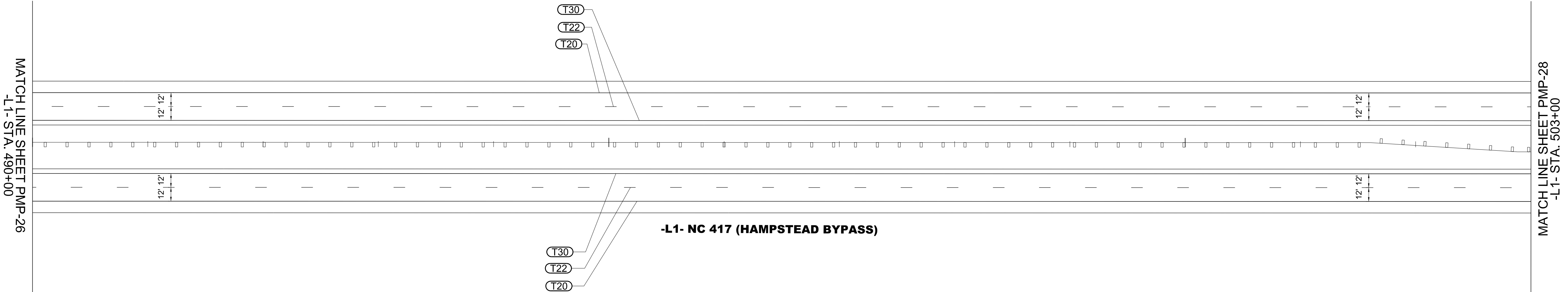
TIP NO.	SHEET NO.
R-3300A	PMP-27
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by:  38C122F48E95CA 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



490
490

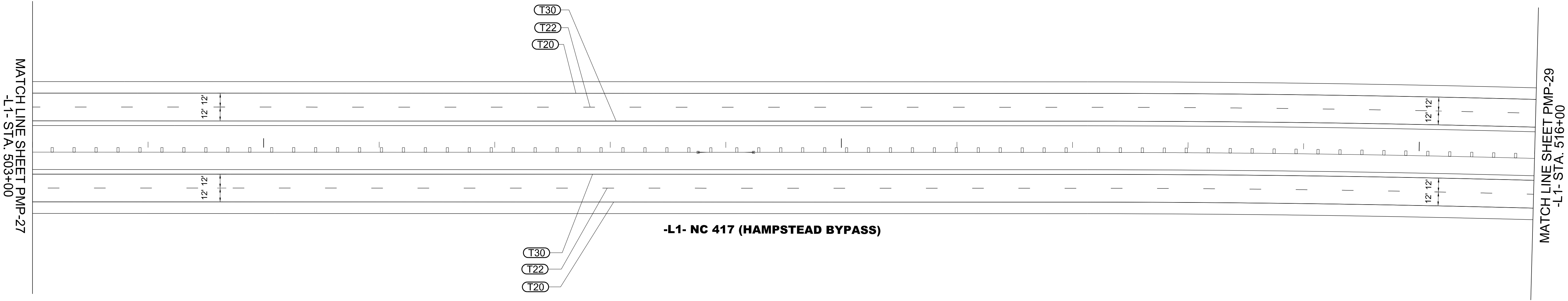
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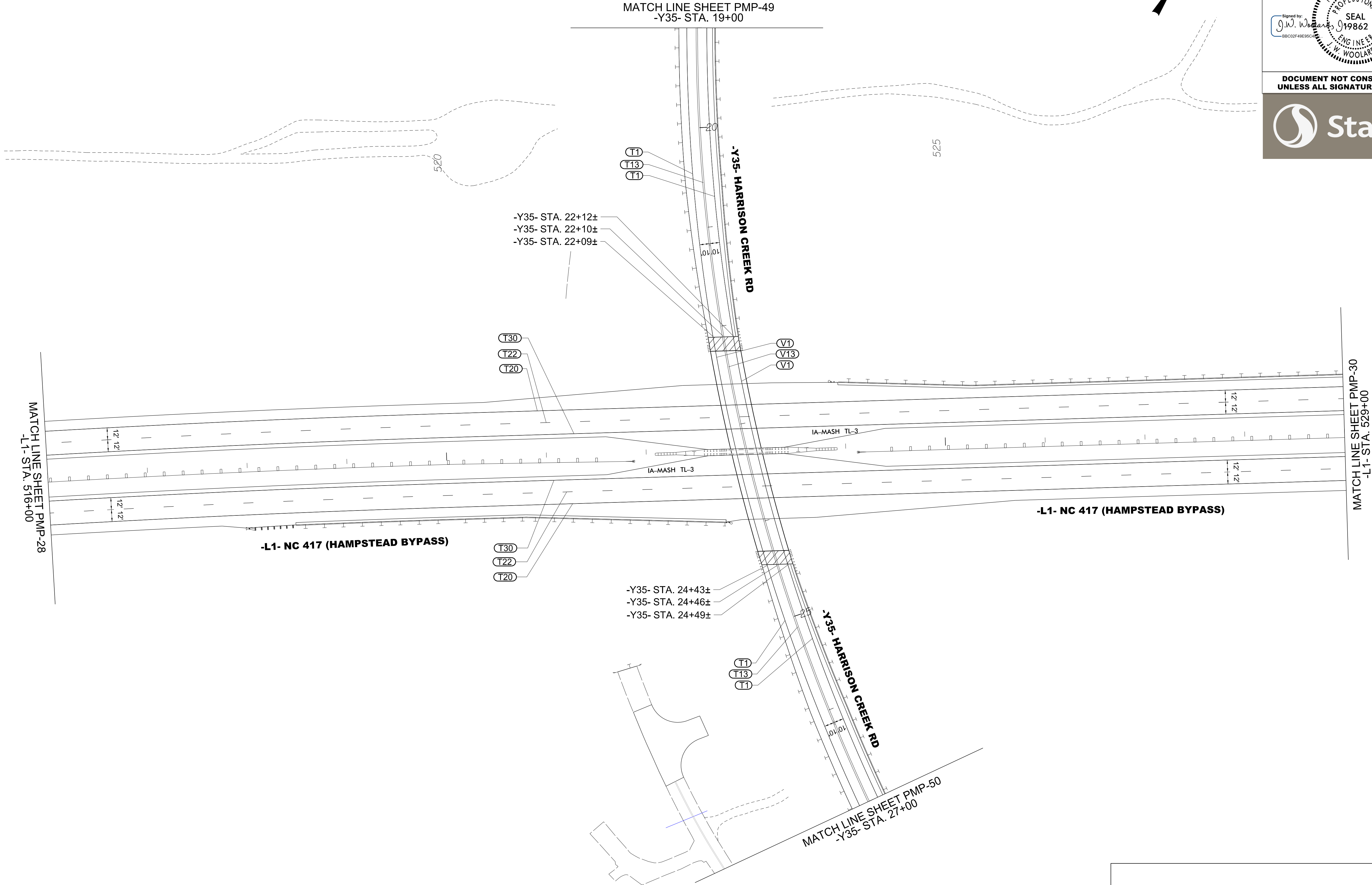
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-28
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woollard Jr. 380C102F48E95CA NORTH CAROLINA PROFESSIONAL SEAL 19862 ENGINEER J.W. WOOLLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



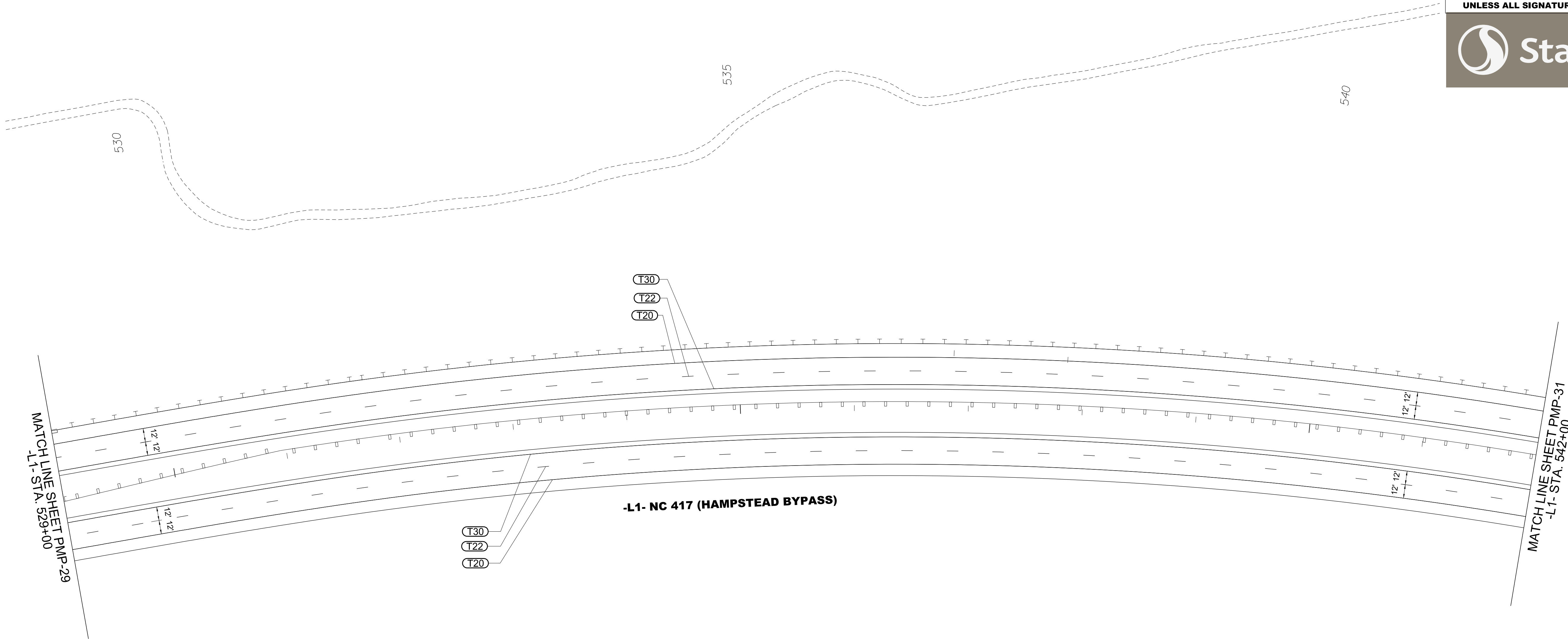
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R - 3300A	PMP - 29
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard Jr. 38012024RE50CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



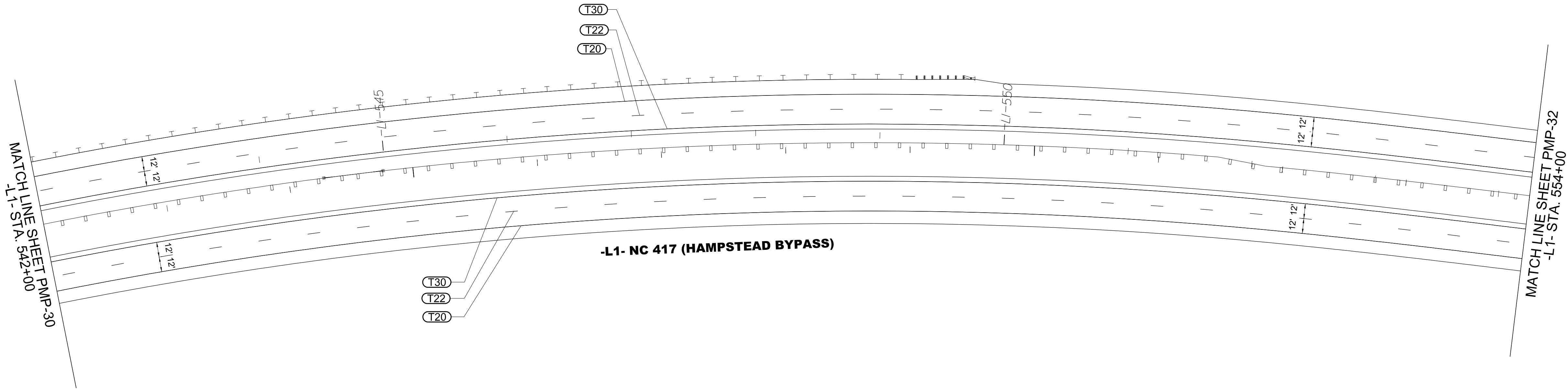
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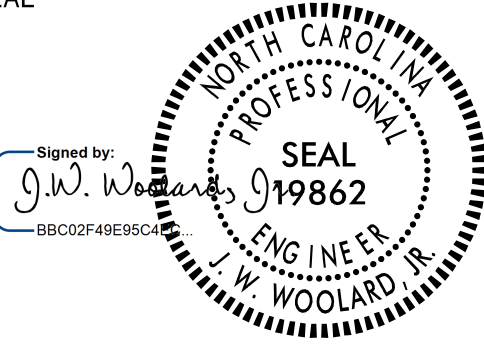
TIP NO.	SHEET NO.
R-3300A	PMP-30
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woollard Jr. 000020249E95CA 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



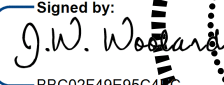
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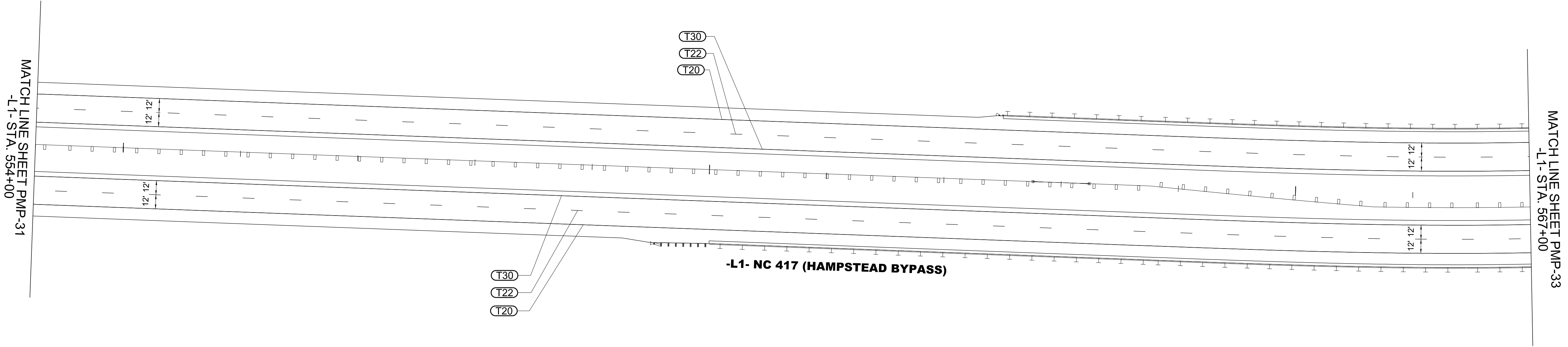
3/11/2025
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angood



TIP NO. R - 3300A	SHEET NO. PMP - 31
APPROVED: _____ DATE: 3/11/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

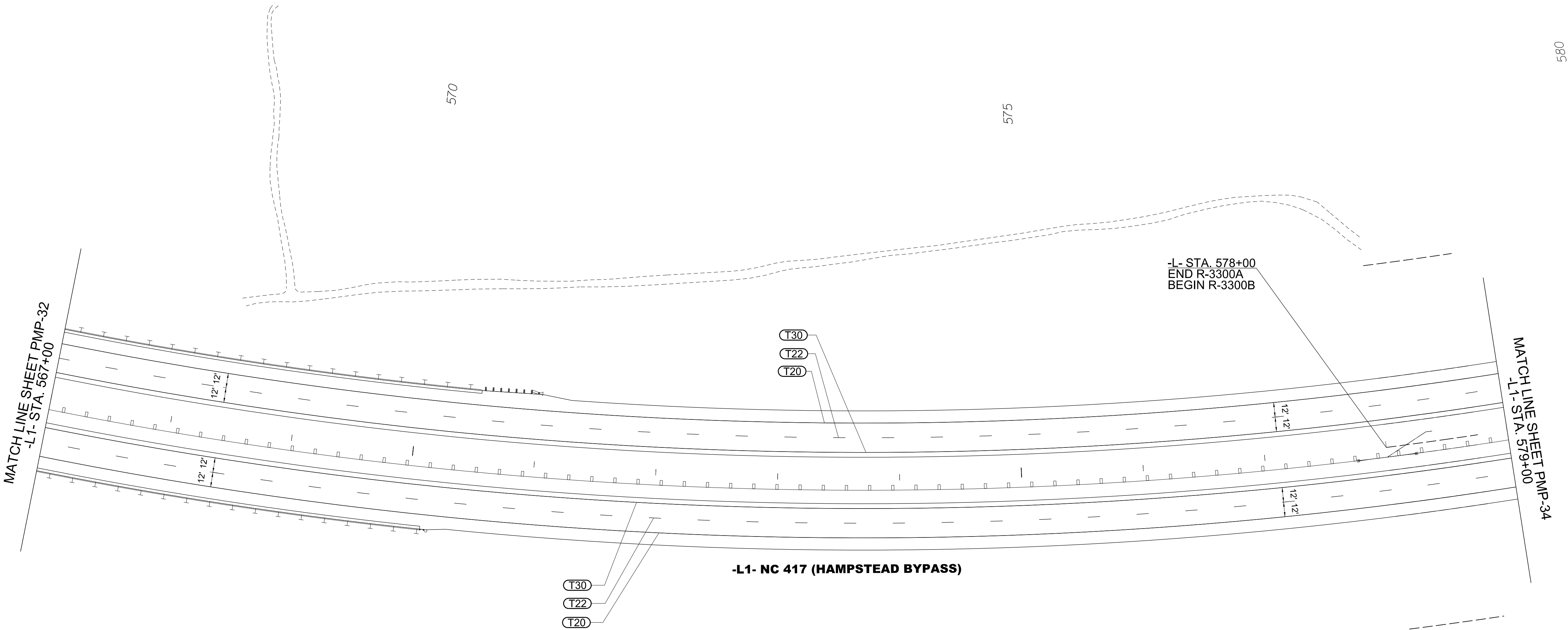
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-32
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by:  38C102F48E95CA NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



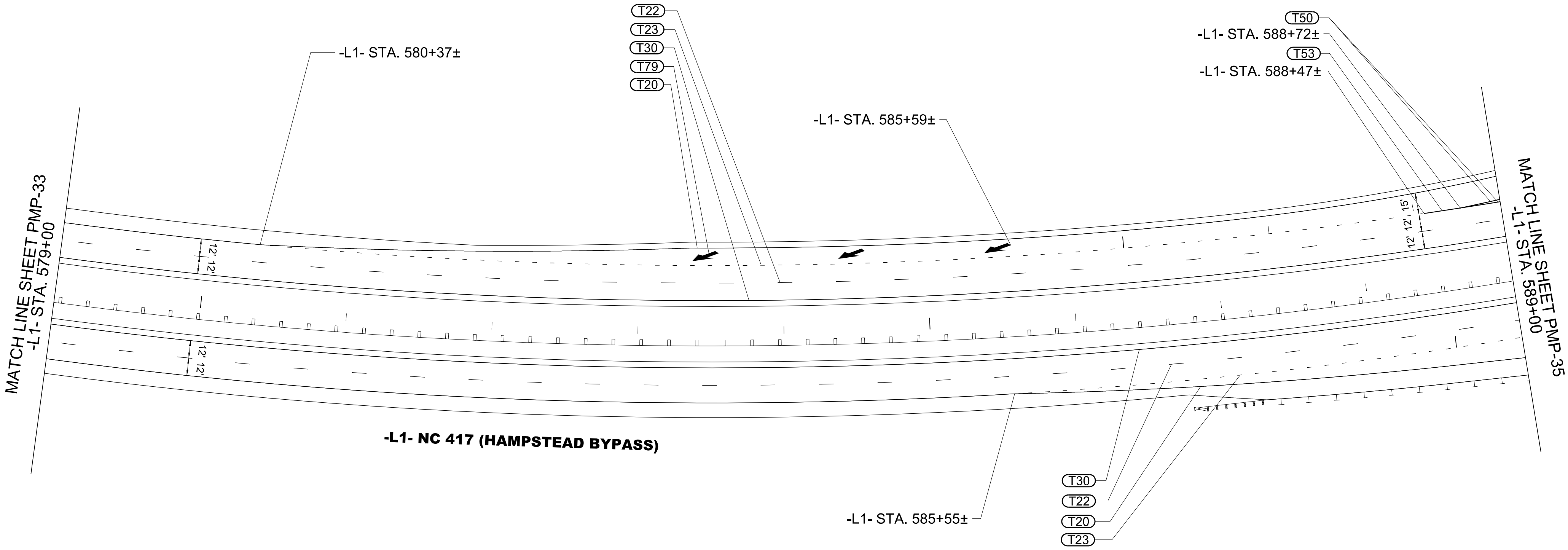
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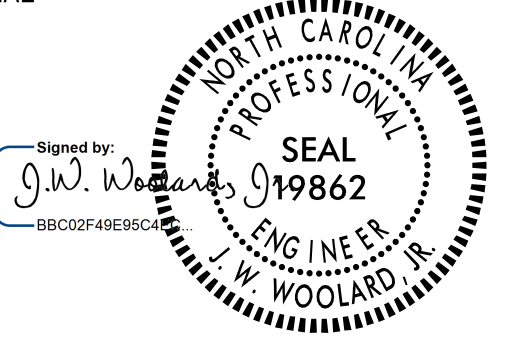
TIP NO.	SHEET NO.
R-3300A	PMP-33
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woollard Jr. 38C102F4B65C4 NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



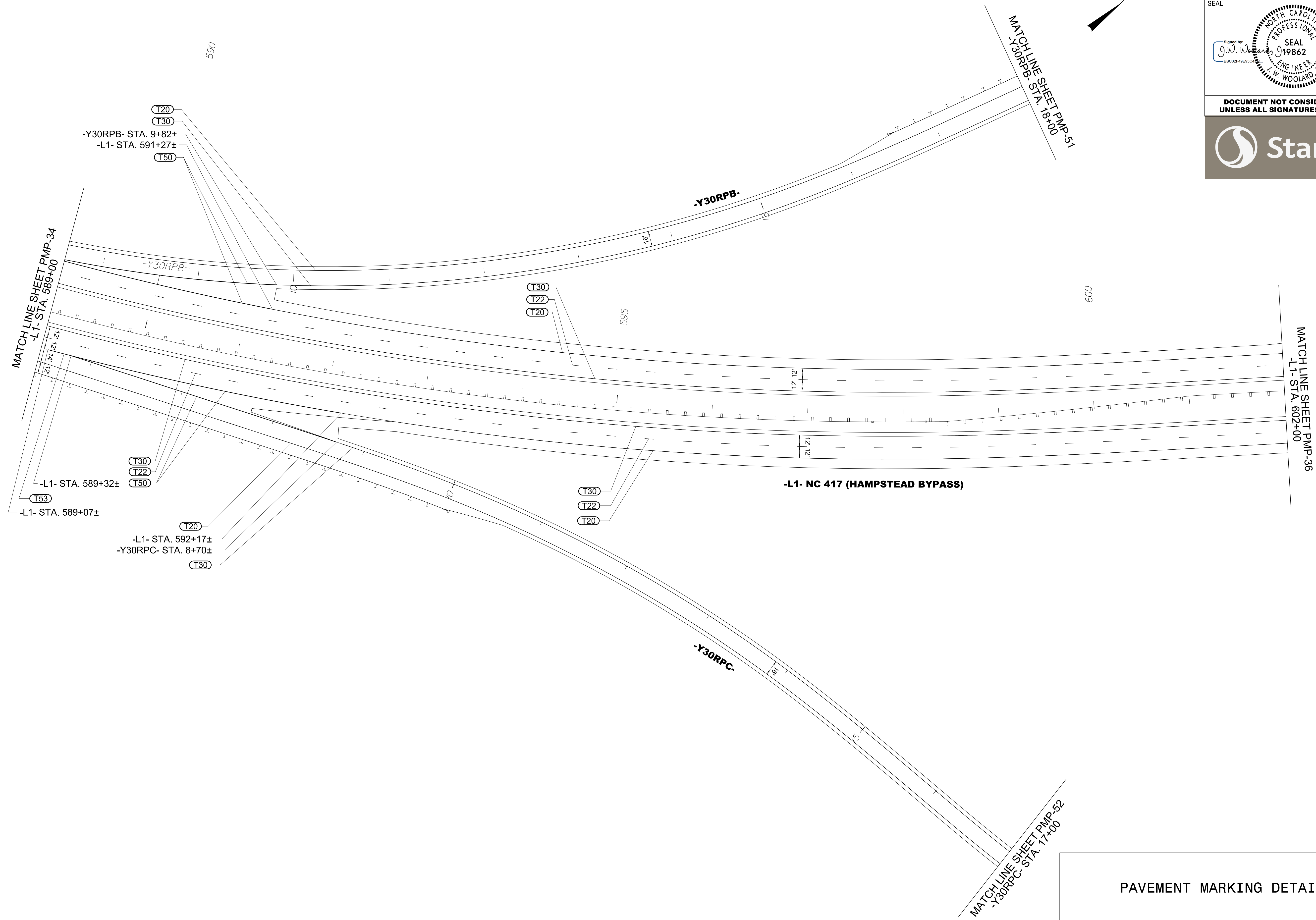
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3/11/2025
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angood



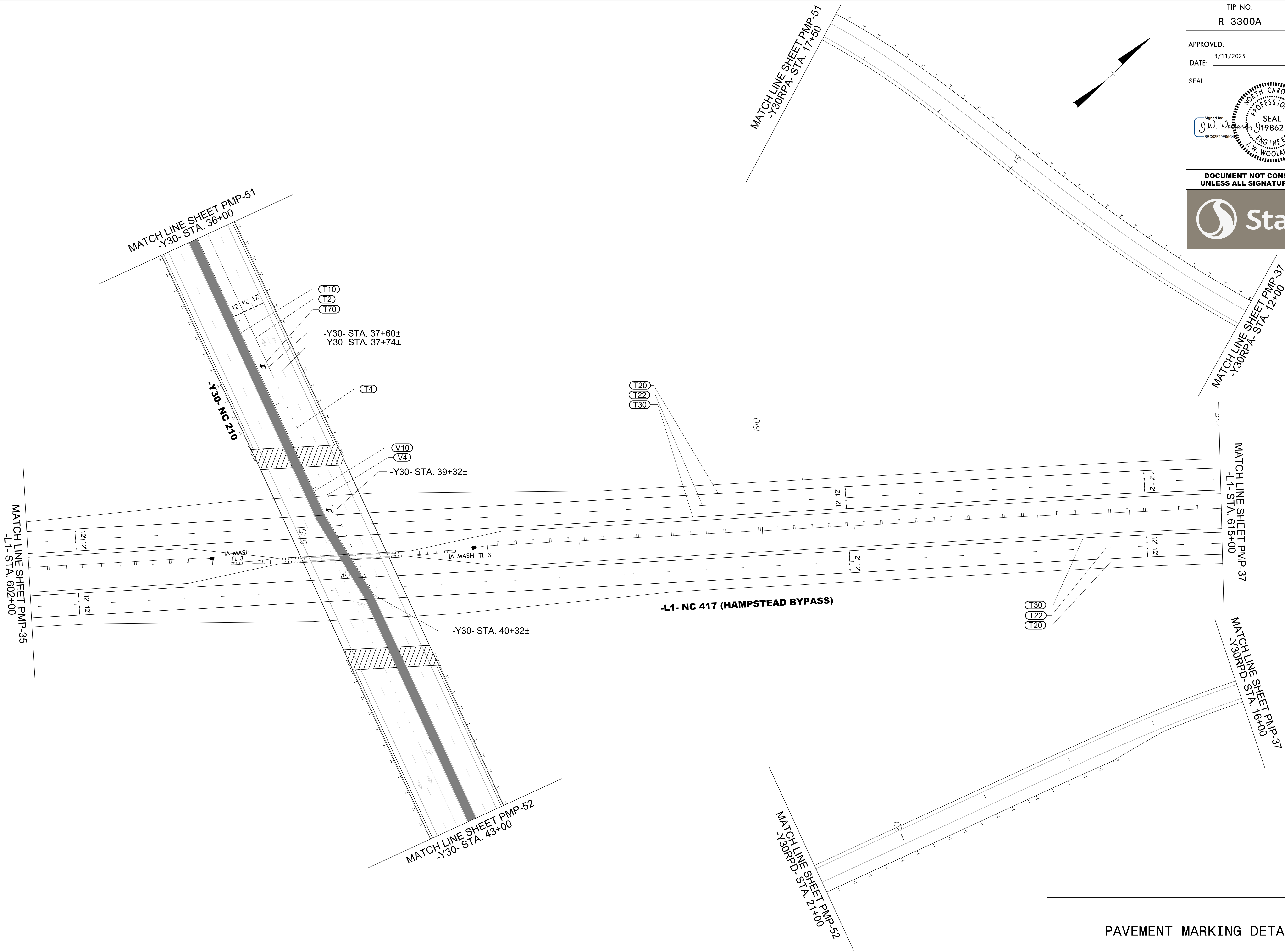
TIP NO. R-3300A	SHEET NO. PMP-34
APPROVED: _____ DATE: 3/11/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

TIP NO.	SHEET NO.
R - 3300A	PMP - 35
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Woollard Jr.</i> 380C02F48E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



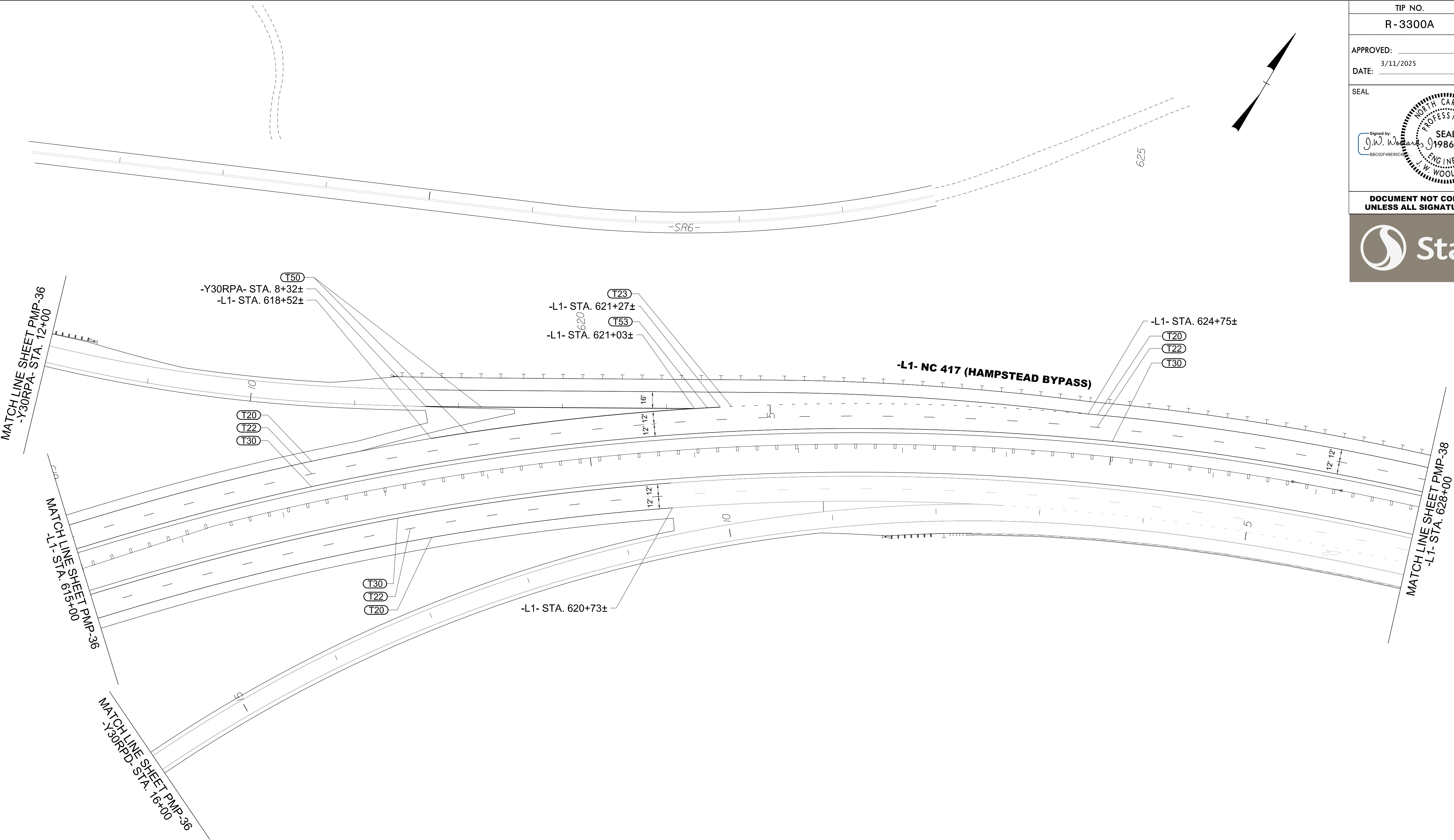
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-36
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard Jr. 000020249E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



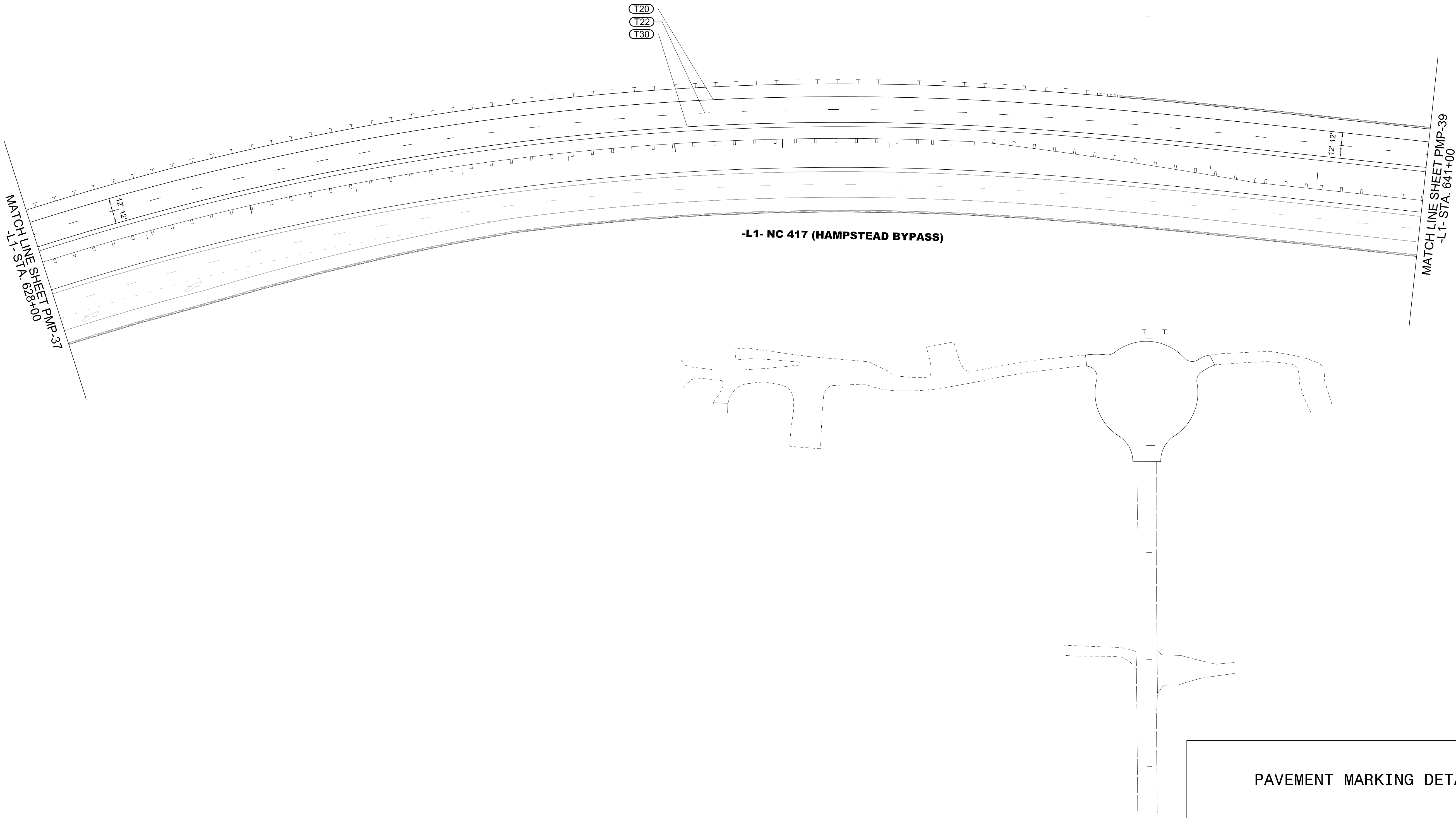
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-37
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard Jr. 000102049E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	

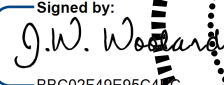


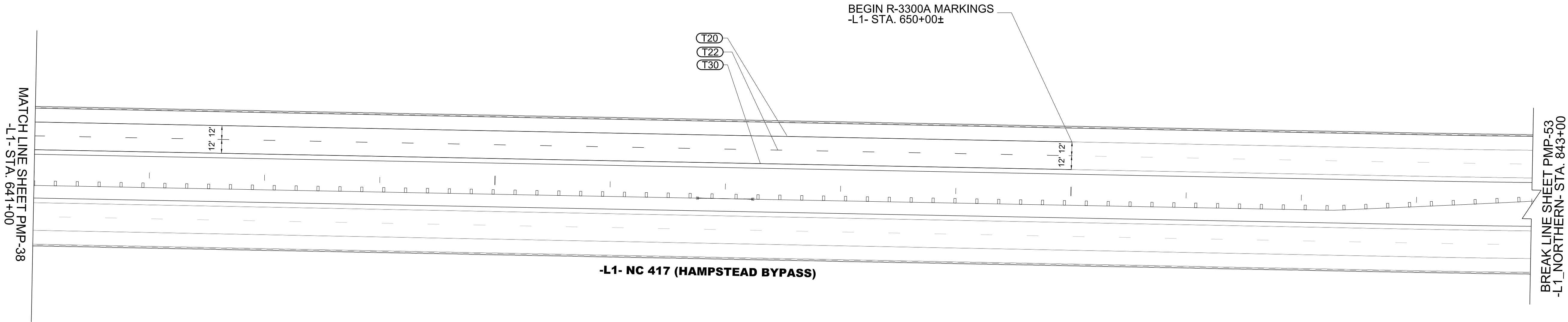
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-38
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard 00002049E95C4 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



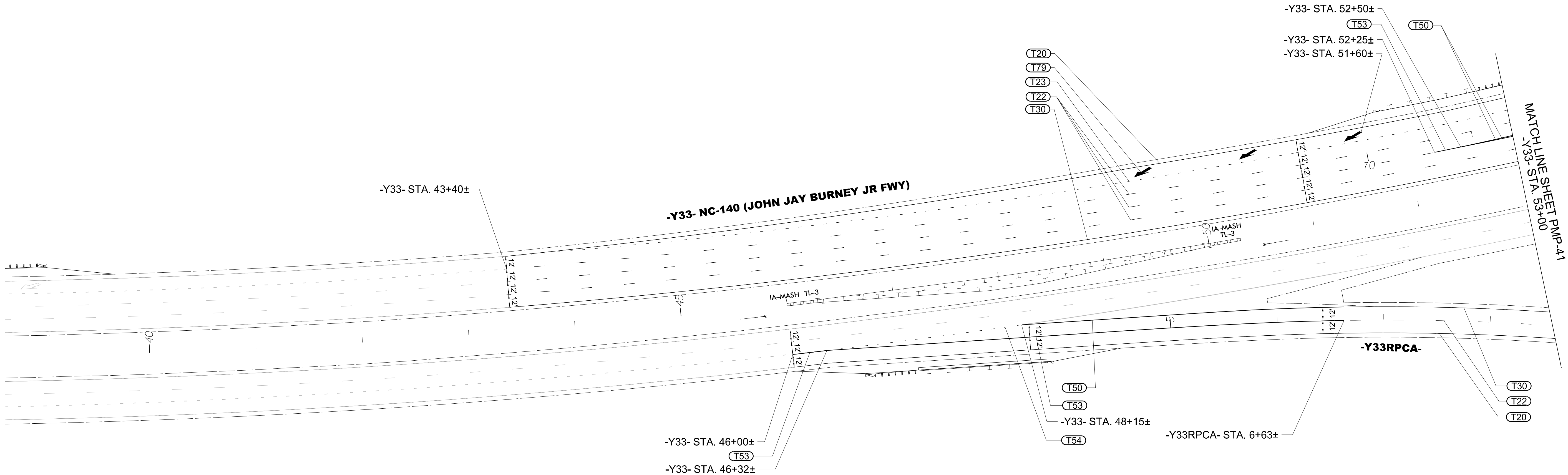
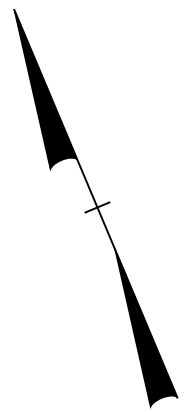
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-39
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by:  38C12F48E95C4 NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



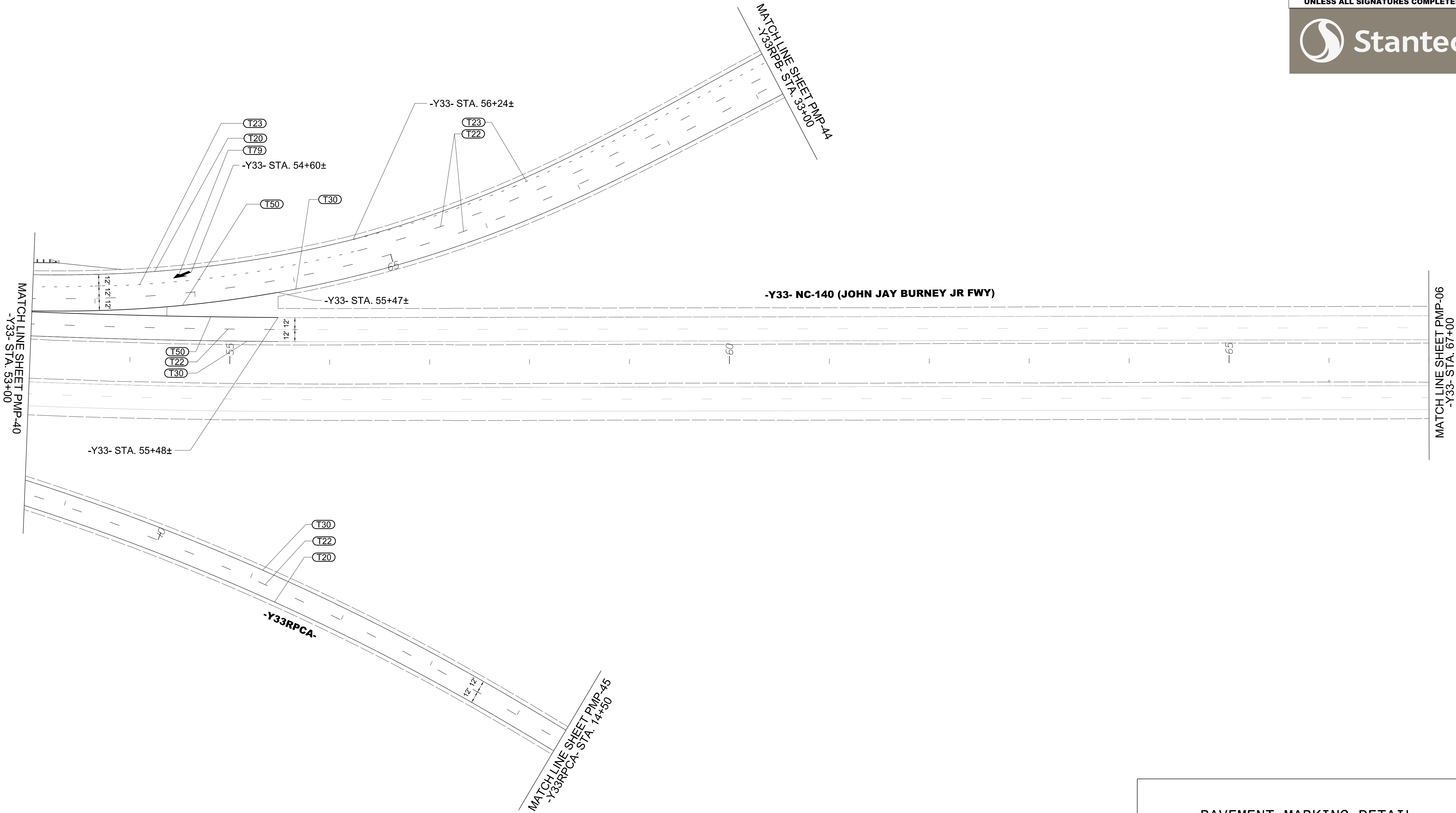
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R - 3300A	PMP - 40
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Wooldard Jr.</i> 380102748E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



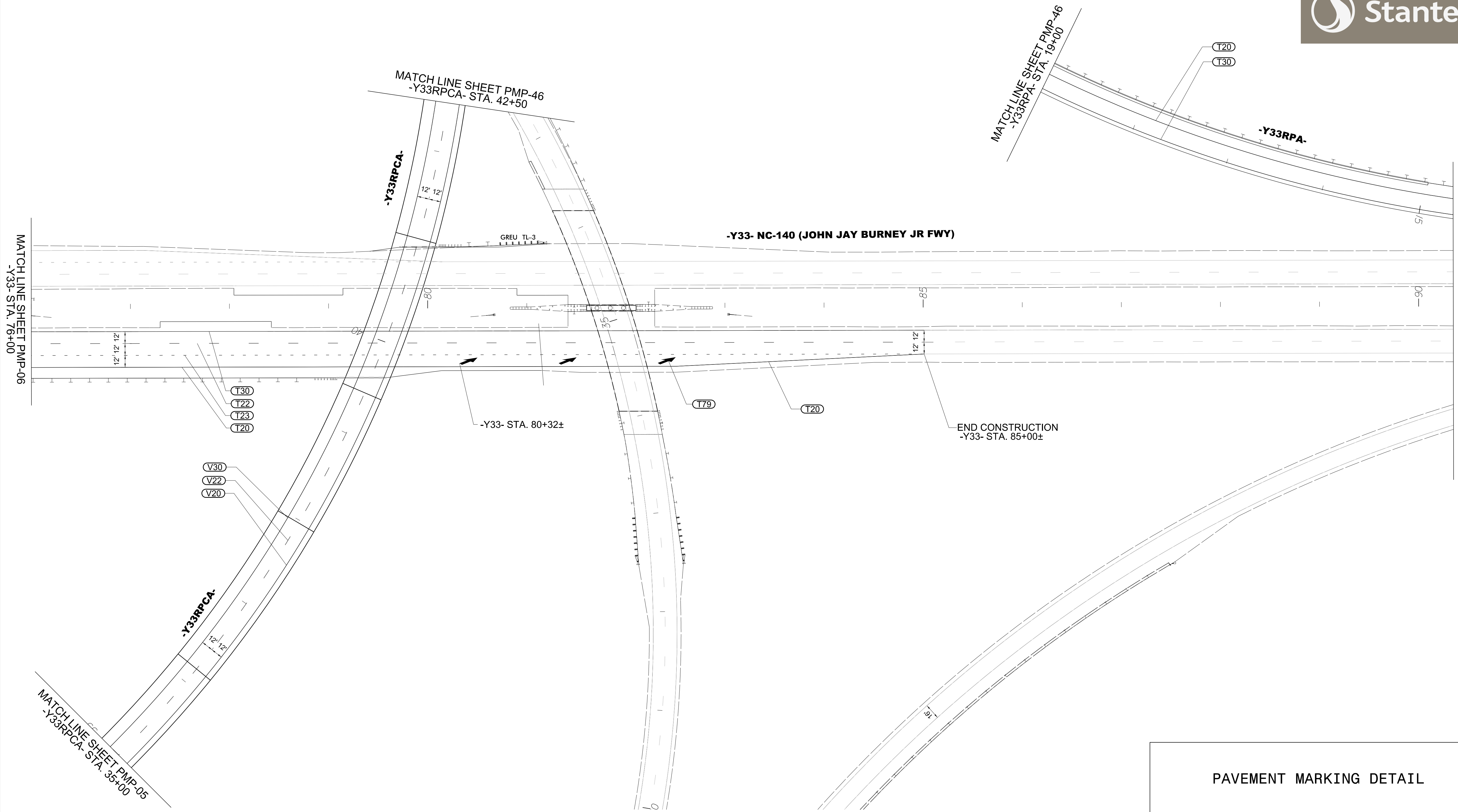
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R - 3300A	PMP - 41
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woollard Jr. 380102748E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

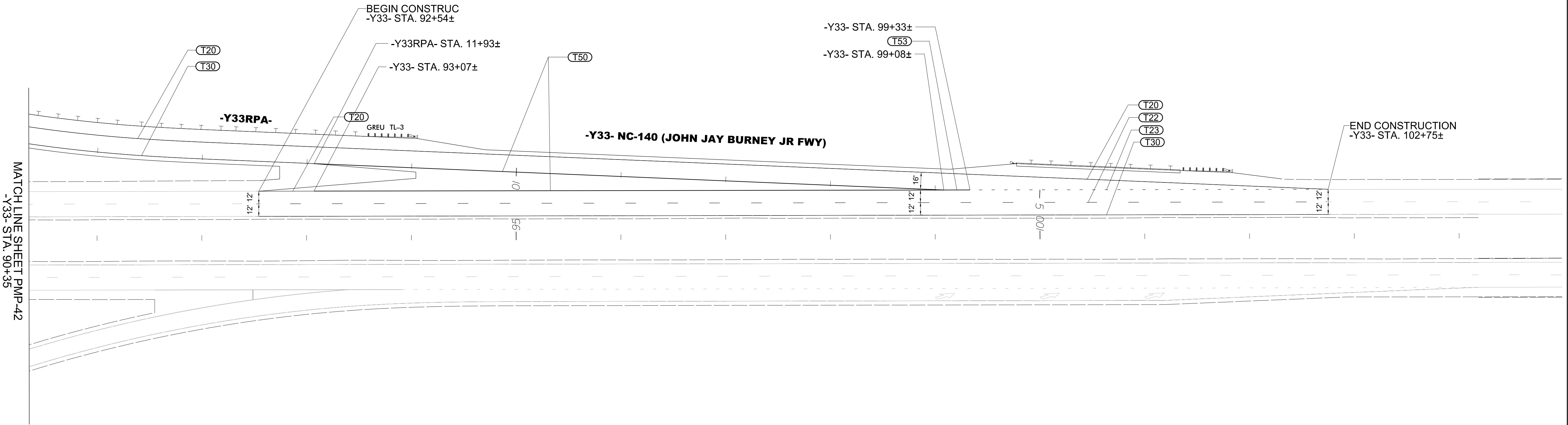
TIP NO.	SHEET NO.
R - 3300A	PMP - 42
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard SEAL 19862 ENGINEER J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

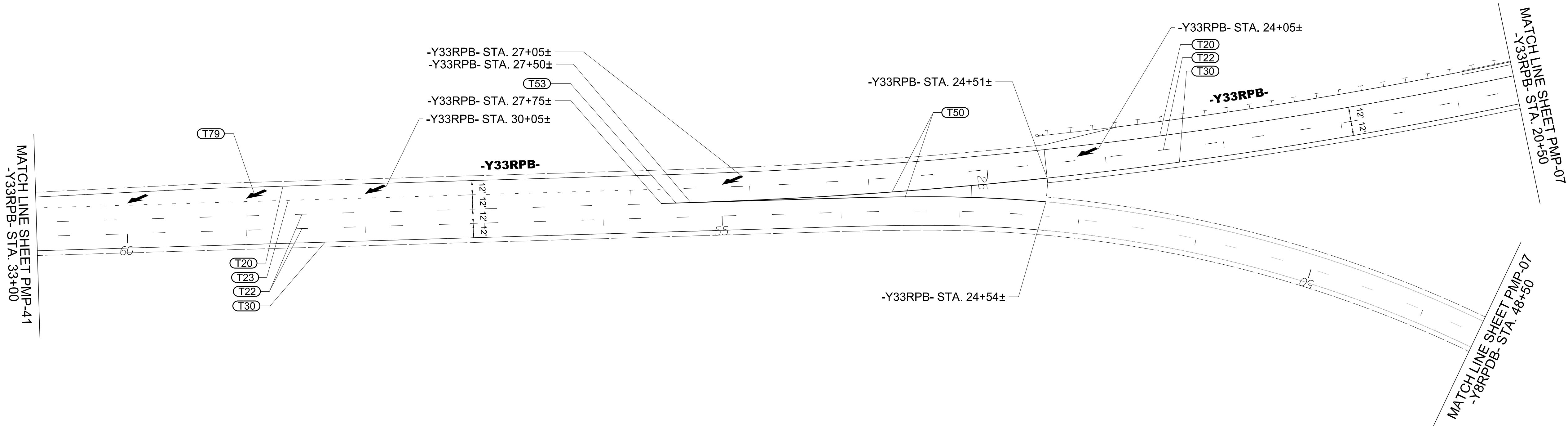
3/11/2025
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TIP NO.	SHEET NO.
R - 3300A	PMP - 43
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Wooldard Jr.</i> 380C102F48E95CA NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



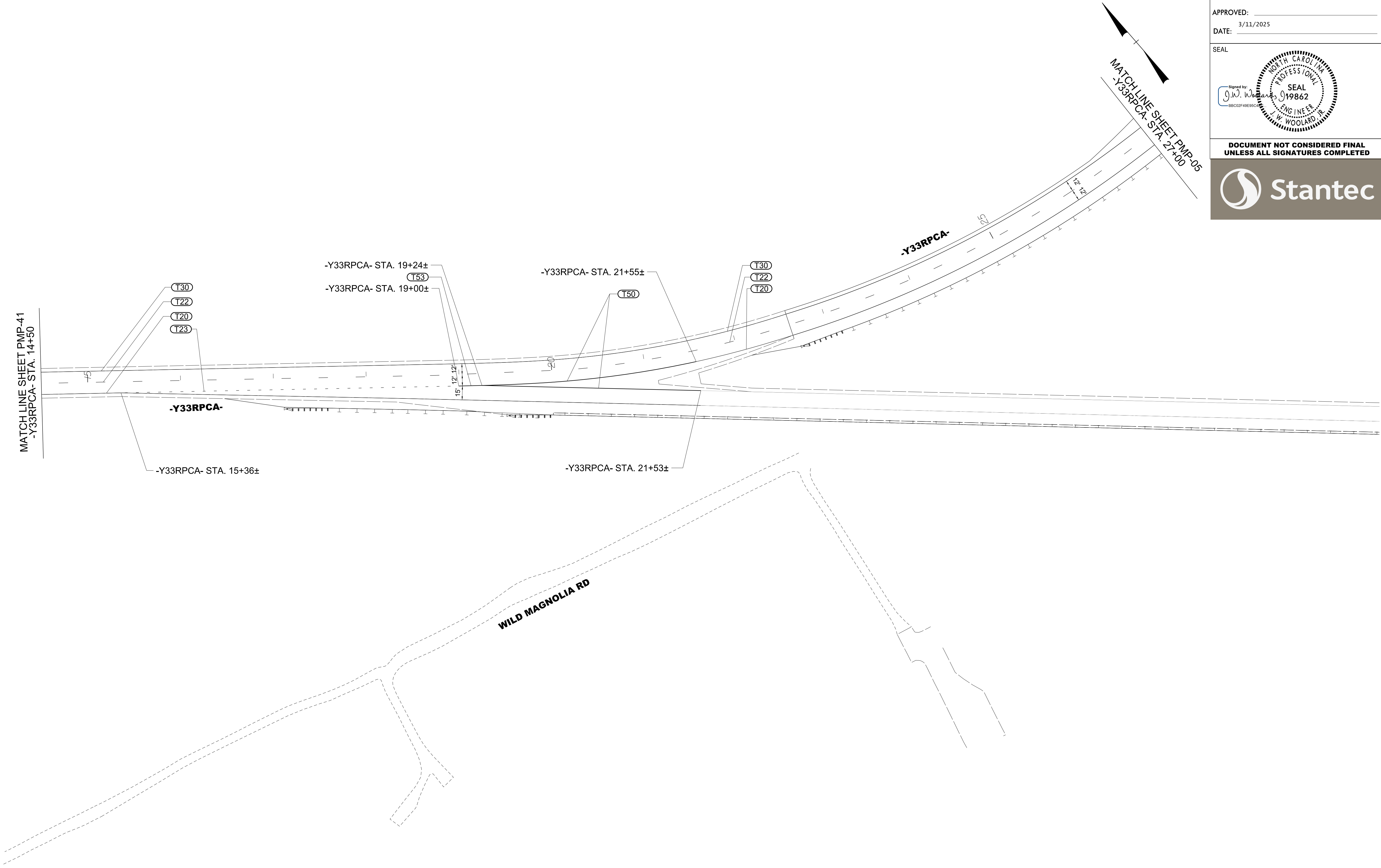
PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R - 3300A	PMP - 44
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woollard Jr. 000020496950 NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

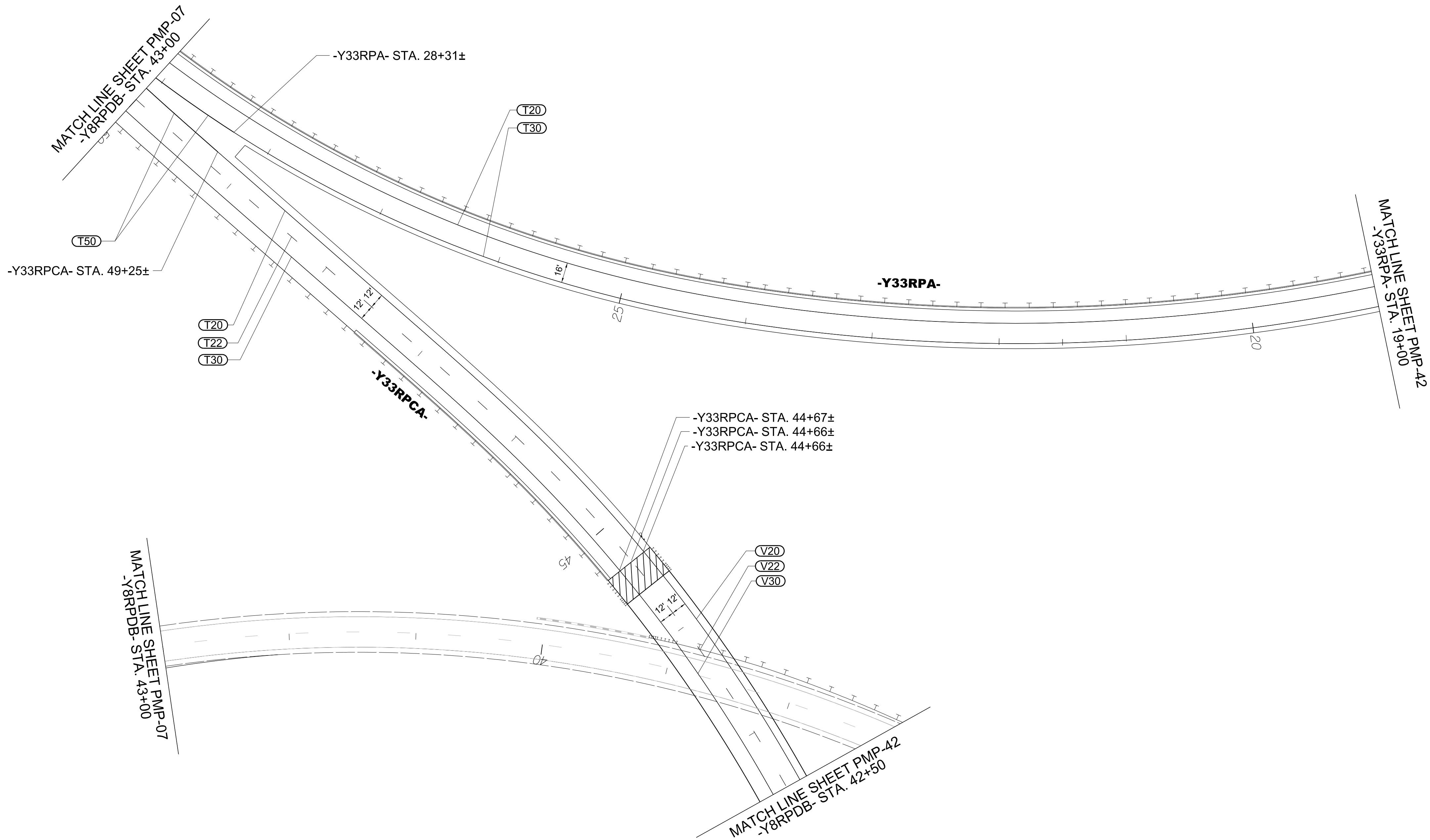
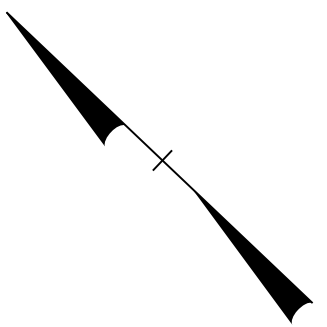
TIP NO.	SHEET NO.
R - 3300A	PMP - 45
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard Jr. 00002049E95CA NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

3/11/2025
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TIP NO.	SHEET NO.
R - 3300A	PMP - 46
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Wooldard, Jr. Professional Engineer 19862 J.W. WOOLARD JR. SEAL 19862 ENGINEER J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

TIP NO.
R - 3300A

SHEET NO.
PMP - 47

APPROVED: _____
DATE: 3/11/2025

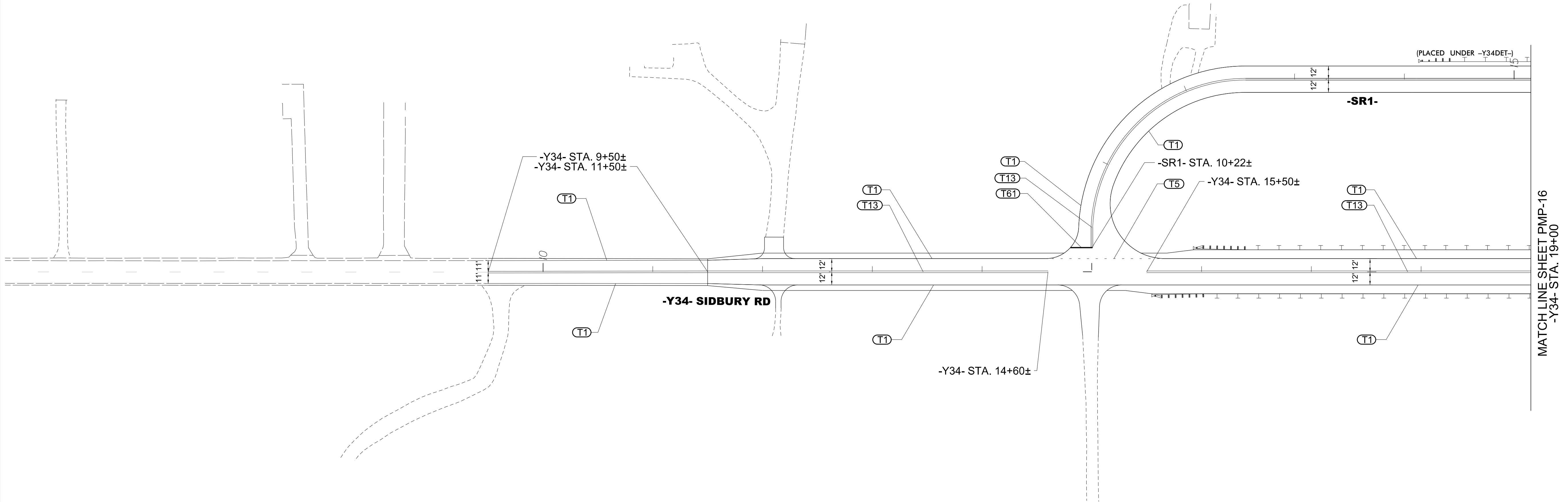
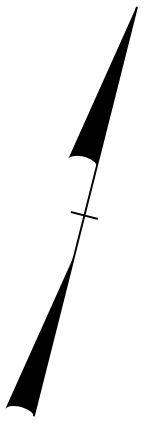
SEAL

Signed by:
J.W. Woollard Jr.
380C102F48E95CA

NORTH CAROLINA
PROFESSIONAL
ENGINEER
J.W. WOOLLARD JR.
19862

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

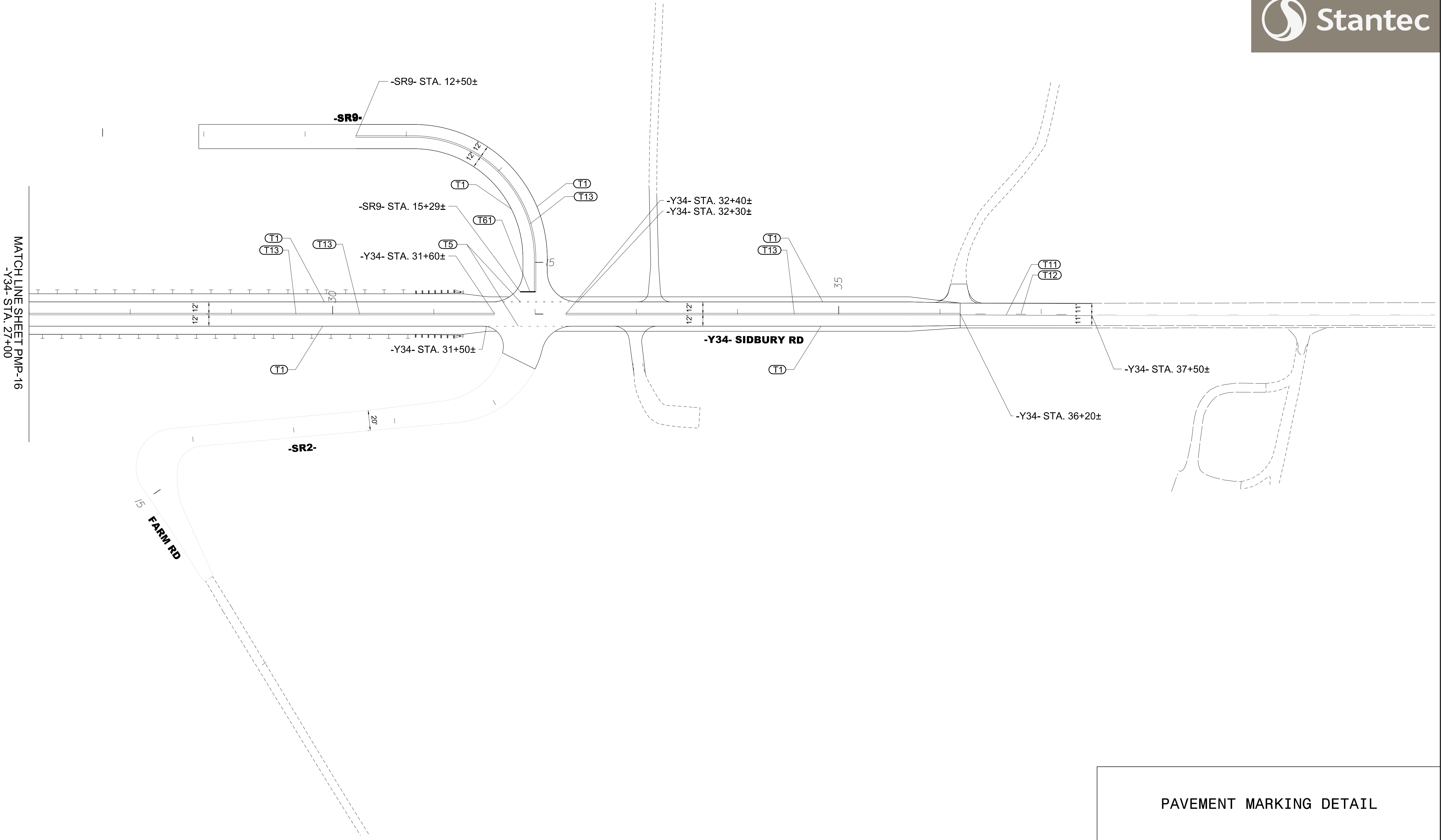
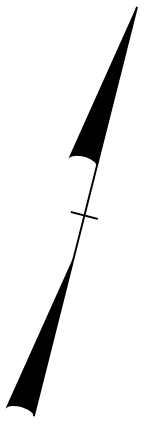




PAVEMENT MARKING DETAIL

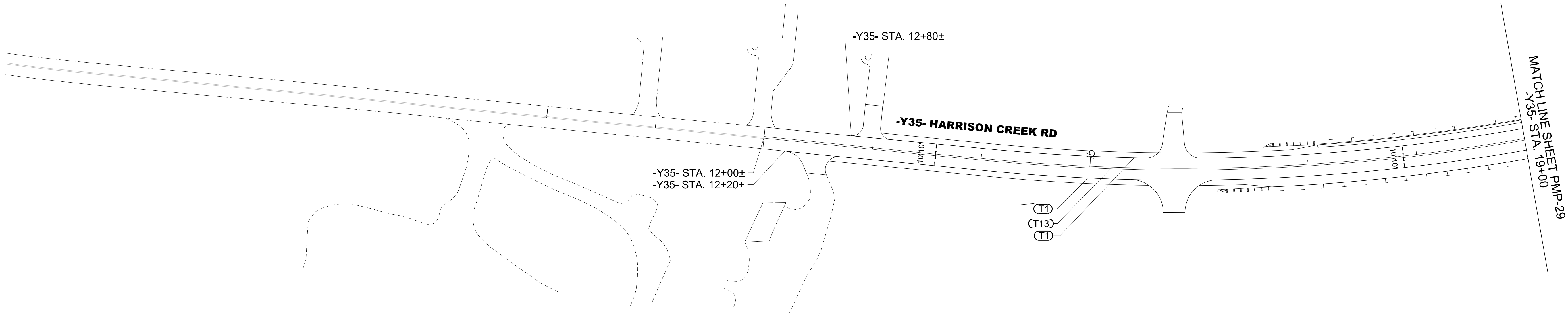
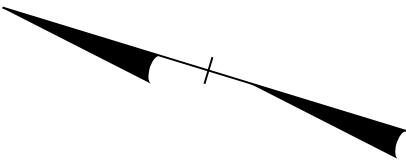
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TIP NO.	SHEET NO.
R - 3300A	PMP - 48
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: J.W. Woolard Jr. 38012024RE95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-49
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Wooldard Jr.</i> B0C102F4B295CA NORTH CAROLINA PROFESSIONAL ENGINEER J.W. WOOLARD JR. 19862	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	

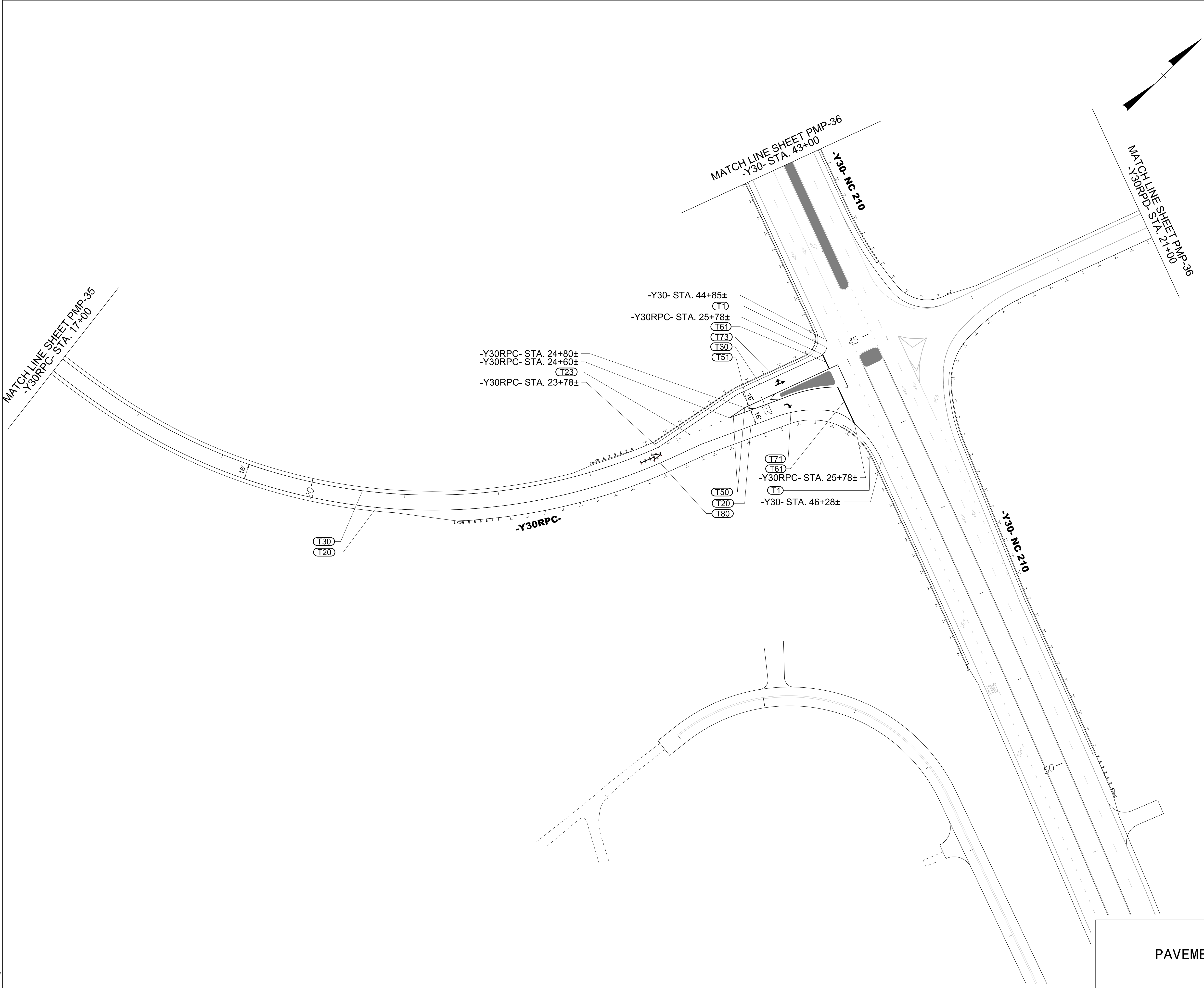


PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-3300A	PMP-52
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Wooldard Jr.</i> 380102748E95CA 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

PAVEMENT MARKING DETAIL

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3/11/2025
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angood

BEGIN R-3300A MARKINGS
-L1_NORTHERN- STA. 854+00±

BREAK LINE SHEET PMP-39
-L1- STA. 654+00

T30
T22
T20

-L1_NORTHERN- Sta.850+10±

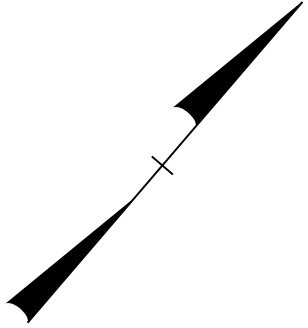
T30

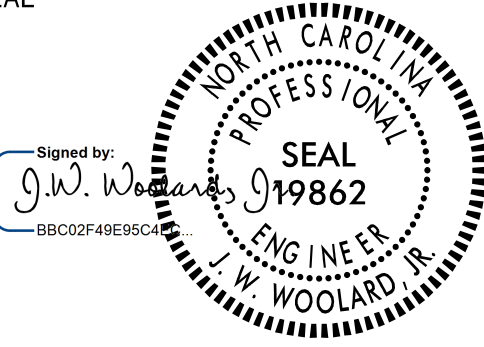
T51
T22
T20

MATCH LINE SHEET PMP-54
-L1- STA. 852+00

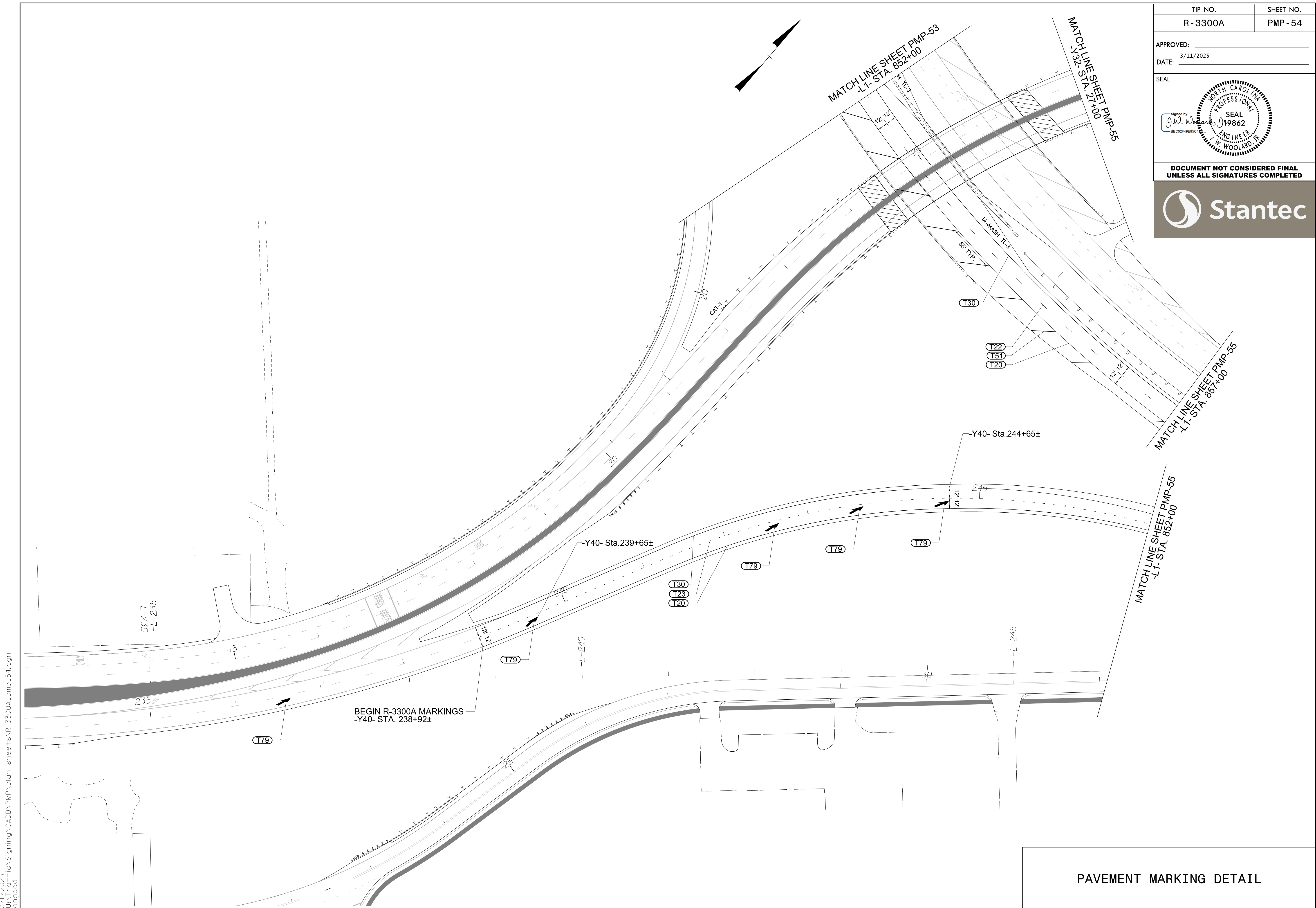
845

850

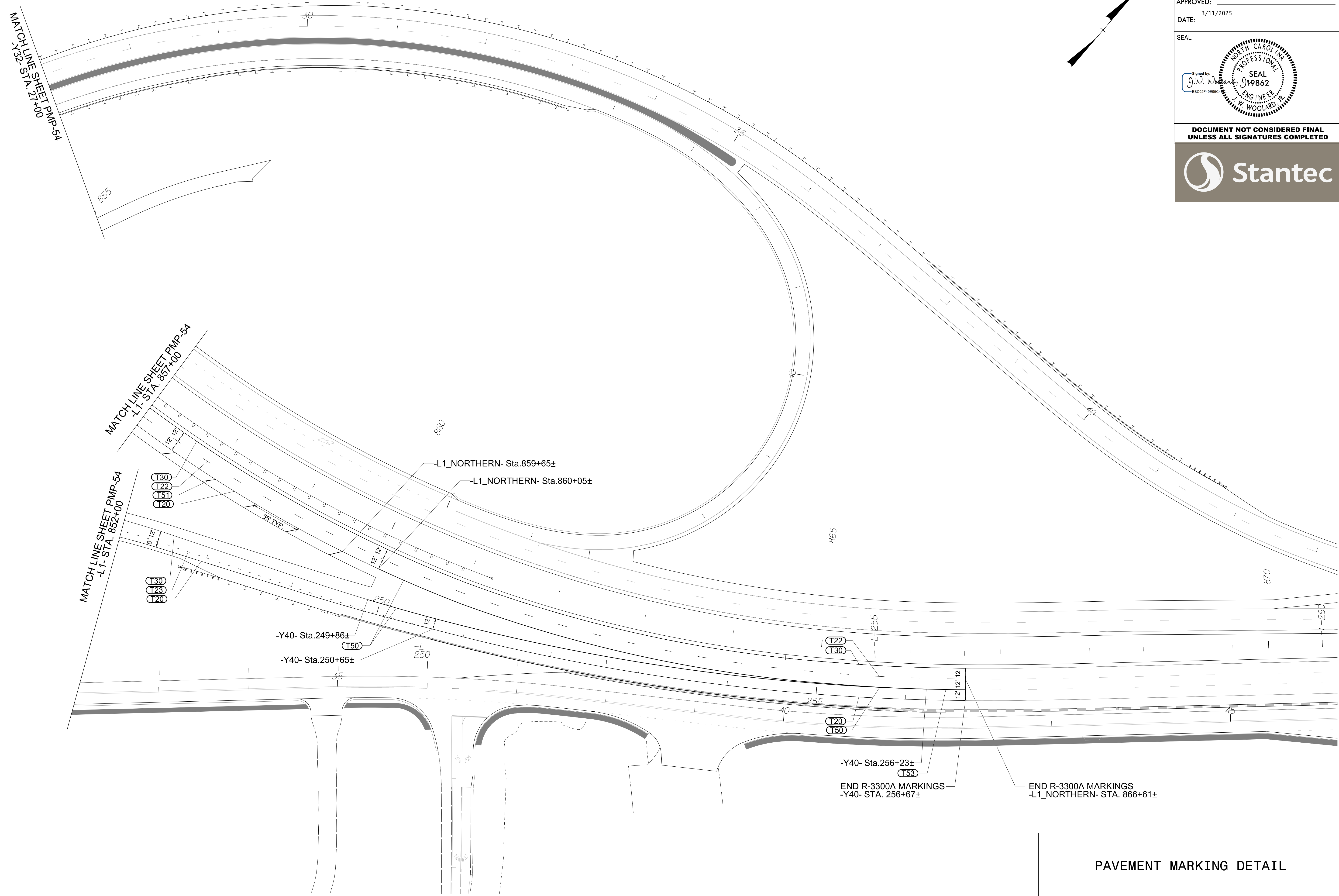
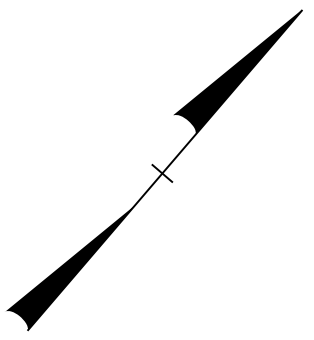


TIP NO. R-3300A	SHEET NO. PMP-53
APPROVED: _____ DATE: 3/11/2025	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

PAVEMENT MARKING DETAIL



TIP NO.	SHEET NO.
R-3300A	PMP-55
APPROVED: _____	
DATE: 3/11/2025	
SEAL	
Signed by: <i>J.W. Wooldard Jr.</i> 38012748E95CA NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19862 J.W. WOOLARD JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 Stantec	



PAVEMENT MARKING DETAIL

3/11/2025
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