

\$DATE\$

\$FILE\$

CONTRACT:

T.I.P.: R-5809A

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN
BERTIE COUNTY

LOCATION: NC 45 0.98 MI. NORTH OF WASHINGTON COUNTY LINE TO 0.13 MI. SOUTH
OF US 17 AT MIDWAY

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - 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:	
<u>STD. NO.</u>	<u>TITLE</u>
903.20	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON WOOD POSTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNT OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING (USE DETAILS IN LIEU OF STANDARDS FOR SHEET 2 OF 3)
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	SIGNING AND PAVEMENT MARKING PLAN TITLE
SIGN-1A	PAVEMENT MARKING SCHEDULE
SIGN-1B	PAVEMENT MARKING LOCATION DETAILS SHEET
SIGN-1C	TYPE "E" AND TYPE "F" SIGNS SHEET
SIGN-1D TO TYPE "D"	SIGNS SHEET
SIGN-1E	
SIGN-2	TO SIGNING DETAILS
SIGN-35	

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4025000000	901	CONTRACTOR FURNISHED, TYPE D SIGN	62	S.F.
4025000000	901	CONTRACTOR FURNISHED, TYPE E SIGN	268	S.F.
4025000000	901	CONTRACTOR FURNISHED, TYPE F SIGN	129	S.F.
4078000000	903	SUPPORTS, 2-LB STEEL U-CHANNEL	3	EA.
4082000000	903	SUPPORTS, WOOD	468	L.F.
4110000000	904	SIGN ERECTION, TYPE D (GROUND MOUNTED)	4	EA.
4110000000	904	SIGN ERECTION, TYPE E (GROUND MOUNTED)	34	EA.
4110000000	904	SIGN ERECTION, TYPE F (GROUND MOUNTED)	15	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	3	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	39	EA.
4237000000	907	STOCKPILE SIGN, D, E OR F	1	EA.
4688000000	1205	THERMOPLASTIC (6", 90 MILS)	148582	L.F.
4895000000	SP	POLYCARBONATE H-SHAPED MARKERS	530	EA.

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

MITCH EATON, P.E.	SIGNING & DELINEATION REGIONAL ENGINEER
ANDREW SCOTT	SIGNING & DELINEATION PROJECT DESIGN ENGINEER



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:
- | | | |
|------------------|----------------|---------------|
| <u>ROAD NAME</u> | <u>MARKING</u> | <u>MARKER</u> |
| NC 45 | THERMOPLASTIC | PERMANENT |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKINGS.
- F) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.
- G) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS ON ASPHALT OR CONCRETE ROADWAYS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE COLD APPLIED PLASTIC PAY ITEM.
- H) SIGNS FURNISHED BY CONTRACTOR.
- I) ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- J) IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- K) WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- L) ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- M) WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- N) THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- O) DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED
- P) SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PLAN PREPARED BY: Kimley-Horn and Associates

Vince Riccio, P.E.	PROJECT DESIGN ENGINEER
Kevin Puninske	DESIGNER

Kimley»Horn

TIP NO.	SHEET NO.
R-5809A	SIGN-1
APPROVED: _____	
DATE: _____	
SEAL	
11/20/2024	
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Kimley»Horn

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4525 MAIN STREET, SUITE 1000

VIRGINIA BEACH, VA 23462

TIP NO.

R-5809A

SHEET NO.

SIGN-1A

APPROVED:

DATE:

SEAL

055728

ENGINEER

VINCENT E. RICCIO

10/11/2024

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PAVEMENT
MARKING SCHEDULE

SYMBOL	DESCRIPTION	FINAL PAVEMENT MARKINGS
T20	WHITE SOLID EDGE LINE	THERMOPLASTIC(6" , 90 MILS)
T24	2 FT.-6 FT. WHITE MINISKIP	THERMOPLASTIC(6" , 90 MILS)
T31	YELLOW SINGLE CENTER	THERMOPLASTIC(6" , 90 MILS)
T32	10 FT. YELLOW SKIP	
T33	YELLOW DOUBLE CENTER	
ME	YELLOW & YELLOW	SNOWFLOWABLE MARKER

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\$DATE\$

Kimley»Horn

4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

TIP NO.

R-5809A

SHEET NO.

SIGN-1B

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Seal of the State of North Carolina

VINCENT E. RICCIO

ENGINEER

055728

10/11/2024

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PASSING ZONE – BOTH DIRECTIONS

- L- 1+30 TO 20+00
- L- 47+30 TO 50+94
- L- 63+55 TO 67+49
- L- 79+43 TO 92+66
- L- 104+41 TO 129+83
- L- 141+57 TO 146+82
- L- 182+11 TO 184+21
- L- 214+88 TO 219+69
- L- 231+74 TO 238+20
- L- 255+23 TO 263+96
- L- 281+22 TO 345+72
- L- 358+03 TO 368+49
- L- 373+94 TO 379+95
- L- 387+09 TO 405+52
- L- 417+68 TO 431+34

PASSING ZONE – NORTHBOUND DIRECTION

- L- 37+83 TO 47+30
- L- 57+85 TO 63+55
- L- 73+73 TO 79+43
- L- 98+71 TO 104+41
- L- 135+87 TO 141+57
- L- 170+85 TO 182+11
- L- 205+68 TO 214+88
- L- 226+04 TO 231+74
- L- 249+53 TO 255+23
- L- 273+41 TO 281+22
- L- 352+33 TO 358+03
- L- 379+95 TO 387+09
- L- 411+98 TO 417+68

PASSING ZONE – SOUTHBOUND DIRECTION

- L- 20+20 TO 27+83
- L- 50+94 TO 56+64
- L- 67+49 TO 73+19
- L- 92+66 TO 98+36
- L- 129+83 TO 135+53
- L- 146+82 TO 152+52
- L- 184+21 TO 189+91
- L- 219+69 TO 225+39
- L- 238+20 TO 243+90
- L- 263+96 TO 273+35
- L- 345+72 TO 351+42
- L- 368+49 TO 373+94
- L- 405+52 TO 411+22
- L- 431+34 TO 431+75

NO PASSING ZONE – BOTH DIRECTIONS

- L- 27+83 TO 37+83
- L- 152+79 TO 170+85
- L- 190+33 TO 205+68
- L- 244+32 TO 248+77
- L- 273+35 TO 273+41

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\$DATE\$

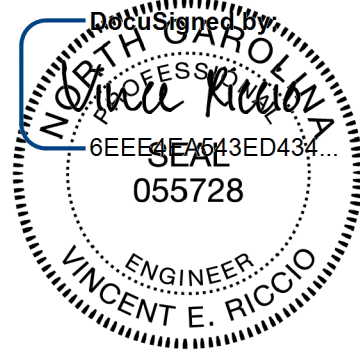
\$FILE\$	\$DATE\$	400 QUANTITY REQ'D .1_ SPEED LIMIT 55 36" X 48" R2-1 ONE WOOD POST PER SIGN	401 QUANTITY REQ'D .1_ LITTERING IS ILLEGAL 42" X 30" W16-8P ONE WOOD POST PER SIGN	402 QUANTITY REQ'D .1_ MAX FINE \$1000 30" X 30" R1-1 MOUNT BELOW SIGN 409 IN .1. INSTALLATIONS	403 QUANTITY REQ'D .4_ 36" X 36" W2-1 ONE WOOD POST PER SIGN	Kimley»Horn 4525 MAIN STREET, SUITE 1000 VIRGINIA BEACH, VA 23462 APPROVED: _____ DATE: _____ SEAL Kimley»Horn 055728 ENGINEER VINCENT E. RICCIO 10/11/2024 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	TIP NO. R-5809A SHEET NO. SIGN-IC	
		404 QUANTITY REQ'D .5_ 36" X 36" W2-2L ONE WOOD POST PER SIGN	405 QUANTITY REQ'D .5_ 36" X 36" W2-2R ONE WOOD POST PER SIGN	406 QUANTITY REQ'D .1_ 36" X 36" W2-3L ONE WOOD POST PER SIGN	500 QUANTITY REQ'D .7_ 45 24" X 24" M1-5 ONE WOOD POST PER SIGN		501 QUANTITY REQ'D .5_ 308 30" X 24" M1-5 ONE WOOD POST PER SIGN	502 QUANTITY REQ'D .2_ EAST 36" X 18" M3-2 MOUNT ABOVE SIGN 501 IN .2 INSTALLATIONS
		407 QUANTITY REQ'D .1_ 36" X 36" W2-3R ONE WOOD POST PER SIGN	408 QUANTITY REQ'D .1_ BRIDGE ICES BEFORE ROAD 36" X 36" W8-13 ONE WOOD POST PER SIGN	409 QUANTITY REQ'D .2_ TRUCKS ENTERING HIGHWAY 36" X 36" W8-6 ONE WOOD POST PER SIGN	503 QUANTITY REQ'D .3_ NORTH 36" X 18" M3-1 MOUNT ABOVE SIGN 500 IN .3 INSTALLATIONS		504 QUANTITY REQ'D .3_ WEST 36" X 18" M3-4 MOUNT ABOVE SIGN 501 IN .3 INSTALLATIONS	505 QUANTITY REQ'D .5_ SOUTH 36" X 18" M3-3 MOUNT ABOVE SIGN 500 IN .5 INSTALLATIONS
		410 QUANTITY REQ'D .1_ 48" X 24" W1-7 ONE WOOD POST PER SIGN	411 QUANTITY REQ'D .1_ 36" X 36" S3-1 ONE WOOD POST PER SIGN	412 QUANTITY REQ'D .4_ 36" X 36" W11-1 ONE WOOD POST PER SIGN	506 QUANTITY REQ'D .6_ 21" X 15" M6-1 MOUNT BELOW SIGN 500 AND 501 IN .5 INSTALLATIONS MOUNT BELOW SIGN 509 IN .1 INSTALLATIONS		507 QUANTITY REQ'D .1_ 21" X 15" M5-1L MOUNT BELOW SIGN 501 IN .1 INSTALLATIONS	508 QUANTITY REQ'D .2_ 21" X 15" M6-3 MOUNT BELOW SIGN 509 IN .2 INSTALLATIONS
413 QUANTITY REQ'D .2_ 18" X 18" OM1-3 MOUNT BELOW SIGNS 500 AND 501 IN .2. INSTALLATIONS	414 QUANTITY REQ'D .4_ SHARE THE ROAD 18" X 24" W16-1P MOUNT BELOW SIGN 412 IN .4. INSTALLATIONS			509 QUANTITY REQ'D .3_ 12" X 6" M1-8 ONE U CHANNEL POST PER SIGN	TYPE F SIGNS			
TYPE E SIGNS					TYPE "E" TYPE "F" SIGNS			

R-5809A

SIGN-ID

DATE: _____

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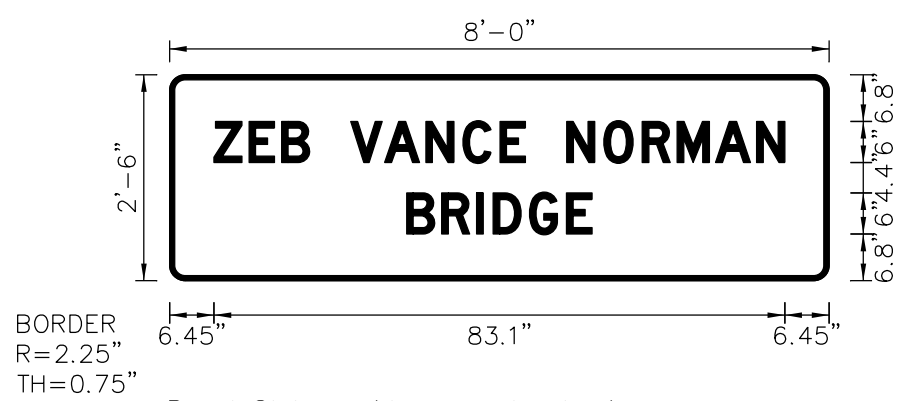


10/11/2024

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SIGN DETAIL

1:25



Panel Style: guide_con_street.ssi
Dimensions are in inches.tenths

Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition

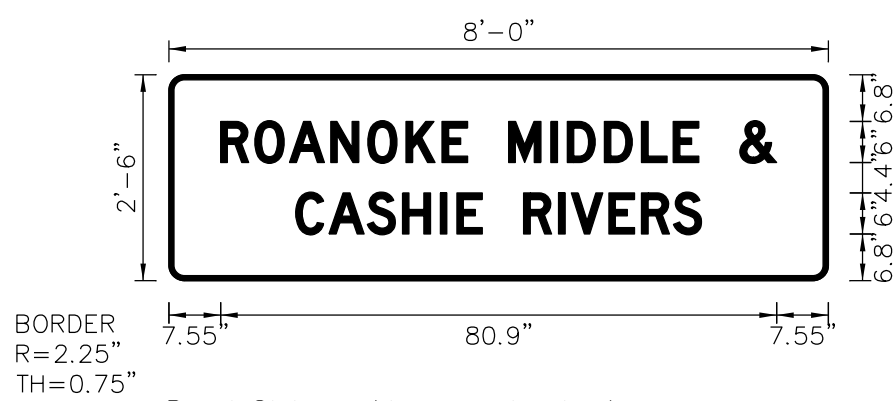
Letter locations are panel edge to lower left corner

SIGN NUMBER	D3-2 (2 Lines)
WIDTH x HGHT.	8'-0" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

[illegible]

SIGN DETAIL

1:25



Panel Style: guide_con_street.ss
Dimensions are in inches.tenths

Panel Style: guide_con_street.ssi
M.U.T.C.D.: 2009 Edition

Letter locations are panel edge to lower left corner

SIGN NUMBER	D3-2 (2 Lines)
WIDTH x HGT.	8'-0" x 2'-6"
BORDER WIDTH	0.75"
CORNER RADIUS	2.25"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White/White

[illegible][illegible]

TYPE "D" SIGNS

TYPE "D" SIGNS

Kimley»Horn

4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

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TIP NO.
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SHEET NO.
SIGN-2

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DATE: _____

SEAL

055728

ENGINEER

VINCENT E. RICCO

06EE45A543ED434

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The figure is an aerial photograph of a road project area. A horizontal road runs across the middle of the image. Above the road, there are two rectangular labels: "ZEB VANCE NORMAN BRIDGE" and "ROANOKE MIDDLE & CASHIE RIVERS". Below the road, there are two more rectangular labels: "ZEB VANCE NORMAN BRIDGE" and "ROANOKE MIDDLE & CASHIE RIVERS". To the left of the road, there is a vertical line with a circle at the top, labeled "-L- POB 0+00.00 0". To the right of the road, there is a vertical line with a circle at the top, labeled "-L- STA. 11+00.00". In the center of the road, there is a label "-L- N.C. 45 N45°12'04.9\"W". There are also several circular labels: "T20" at the top left, "T32 ME" at the top center, "T32 ME" at the top right, and "T20" at the bottom right. A north arrow is located in the top right corner, pointing towards the top right. The text "MATCHLINE -L- STA. 11+00.00 SEE PLAN SHEET 3" is written vertically on the right side of the image.

5/14/99

REVISIONS

\$DATE\$

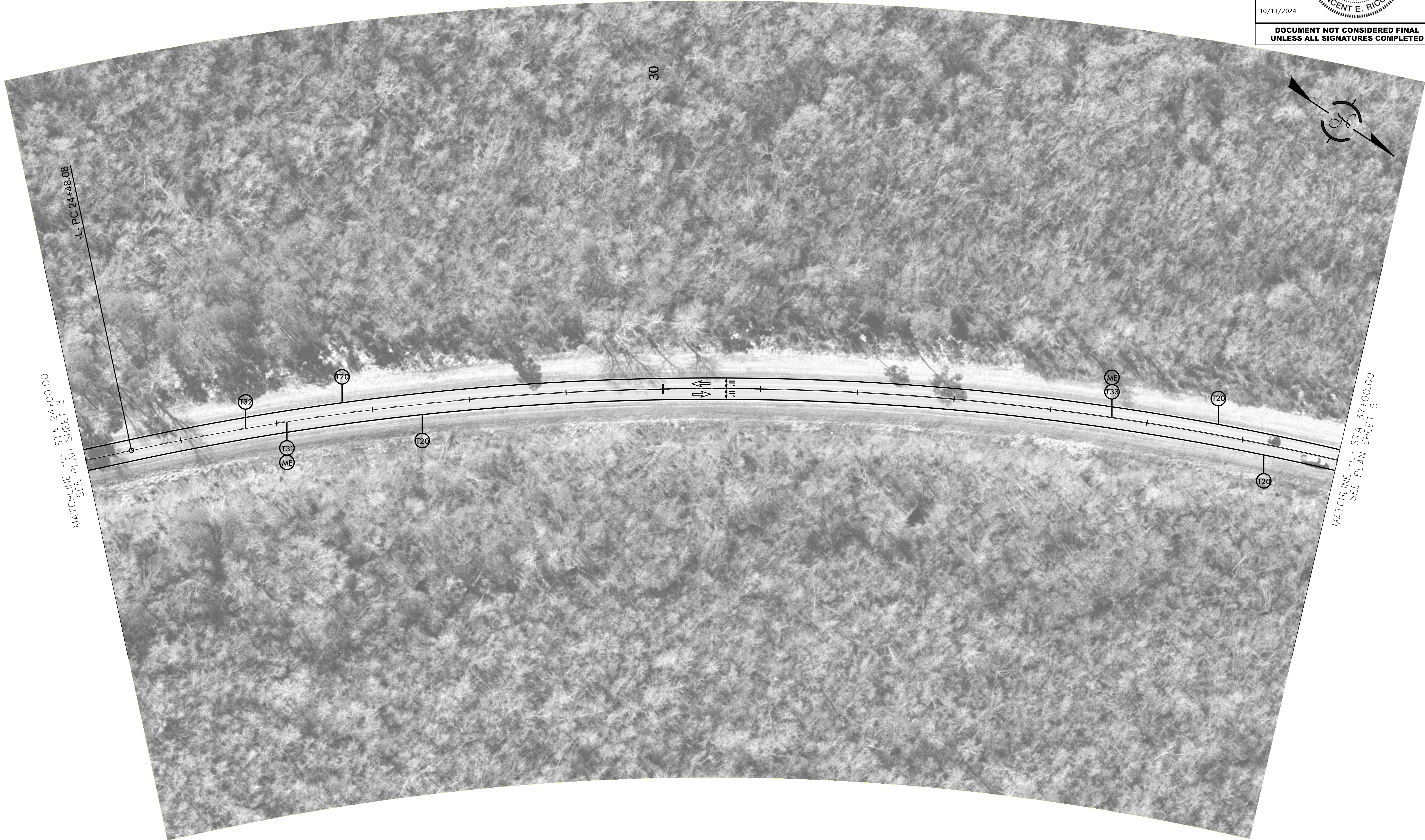
MATCHLINE -L- STA 11+00.00
SEE PLAN SHEET 2



5/14/99

REVISIONS

\$DATE\$



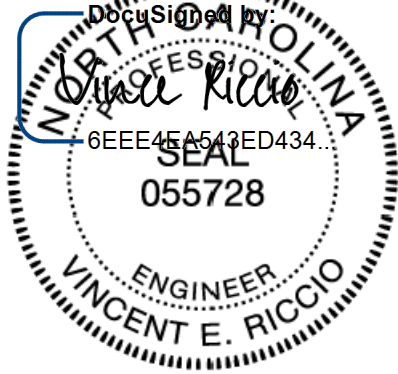
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4525 MAIN STREET, SUITE 1000
VIRGINIA BEACH, VA 23462

TIP NO. R-5809A	SHEET NO. SIGN-4
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