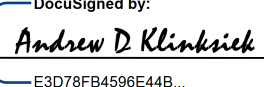



TIP NO.	SHEET NO.
R-3421B	PMP-1
APPROVED:  <small>E3D78F8459E44B</small>	
DATE: 7/5/2019	
	
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**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
RICHMOND COUNTY**

LOCATION: US 220 BYPASS FROM 0.3 MILES SOUTH OF SR 1140 (OLD CHARLOTTE HIGHWAY) TO 0.2 MILES SOUTHWEST OF SR 1304 (HARRINGTON ROAD)

T.I.P.: R-3421B

CONTRACT: C204368

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - CONTRACT STANDARDS AND DEVELOPMENT 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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

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
CONCRETE BRIDGE DECKS	COLD APPLIED PLASTIC	RAISED

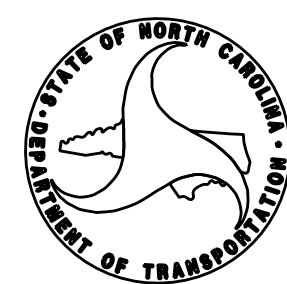
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
 E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
 F) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKING MATERIAL.
 G) 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.
 H) REMOVE PAVEMENT MARKING ON ALL ROADS WITH CULDESACS 500' IN ADVANCE OF PROPOSED CULDESACS.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE
PMP-1A	PAVEMENT MARKING SCHEDULE
PMP-2-20	PAVEMENT MARKING DETAIL

PLAN PREPARED FOR: N.C.D.O.T. SIGNING AND DELINEATION UNIT


Renee Roach, PE SIGNING & DELINEATION REGIONAL ENGINEER
Sam Coleman, EI SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN



PLAN PREPARED BY: HNTB NORTH CAROLINA, P.C.

A.D. Klincksiek, PE, PTOE PROJECT ENGINEER
J.T. Thibault, EI DESIGN ENGINEER

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TIP NO. R-3421B	SHEET NO. PMP - 1A
APPROVED: <i>Andrew D. Klincksiek</i> <small>E3078FB459E44B...</small>	
DATE: 7/5/2019	
	
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FINAL PAVEMENT MARKING SCHEDULE

MATERIAL	SYMBOL	DESCRIPTION
PAVEMENT MARKING		
<u>COLD APPLIED PLASTIC, TYPE II (4")</u>		
	CA	WHITE EDGELINE
	CI	YELLOW DOUBLE CENTER
<u>COLD APPLIED PLASTIC, TYPE II (6")</u>		
	C6	WHITE EDGELINE
	C7	YELLOW EDGELINE
	CJ	10 FT. WHITE SKIP
<u>THERMOPLASTIC (4", 90 MILS)</u>		
	T8	2 FT.-6 FT./SP WHITE MINISKIP
	TA	WHITE EDGELINE
	TB	YELLOW EDGELINE
	TD	3 FT.-9 FT./SP WHITE MINISKIP
	TE	WHITE SOLID LANE LINE
	TI	YELLOW DOUBLE CENTER
<u>THERMOPLASTIC (6", 90 MILS)</u>		
	T6	WHITE EDGELINE
	T7	YELLOW EDGELINE
	TJ	10 FT. WHITE SKIP
	TK	3 FT.-9 FT./SP WHITE MINISKIP
<u>THERMOPLASTIC (12", 90 MILS)</u>		
	T2	WHITE STOPBAR
	T14	3 FT.-9 FT./SP WHITE MINISKIP
	TS	WHITE GORELINE
	TT	WHITE SOLID LANE LINE
	TV	YELLOW DIAGONAL
<u>THERMOPLASTIC (24", 90 MILS)</u>		
	T2	WHITE STOPBAR
<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)</u>		
	UA	LEFT TURN ARROW
	UB	RIGHT TURN ARROW
	UE	COMBO RIGHT/STRAIGHT
	UP	MERGE ARROW
	UQ	RAMP ARROW
<u>THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)</u>		
	UI	ALPHANUMERIC CHAR.
<u>RAISED PAVEMENT MARKERS (NOT SHOWN)</u>		
	MA	YELLOW & YELLOW
	MB	CRYSTAL & RED
<u>SNOWPLOWABLE PAVEMENT MARKERS (NOT SHOWN)</u>		
	ME	YELLOW & YELLOW
	MF	CRYSTAL & RED

LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
 - NORTH ARROW
 - PROPOSED PVMT. EXIST. PVMT.

- PAVEMENT MARKINGS**
- PAVEMENT MARKING SYMBOLS
 - ONLY** PAVEMENT MARKING CHARACTERS

PAVEMENT MARKING SYMBOLS

	UA		UP
	UB	ONLY	UI
	UE		

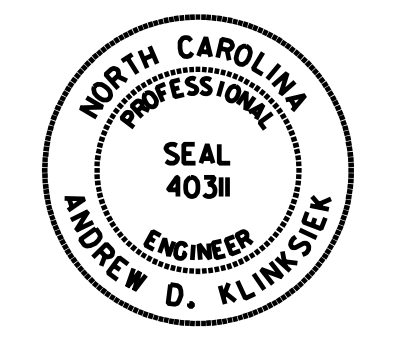
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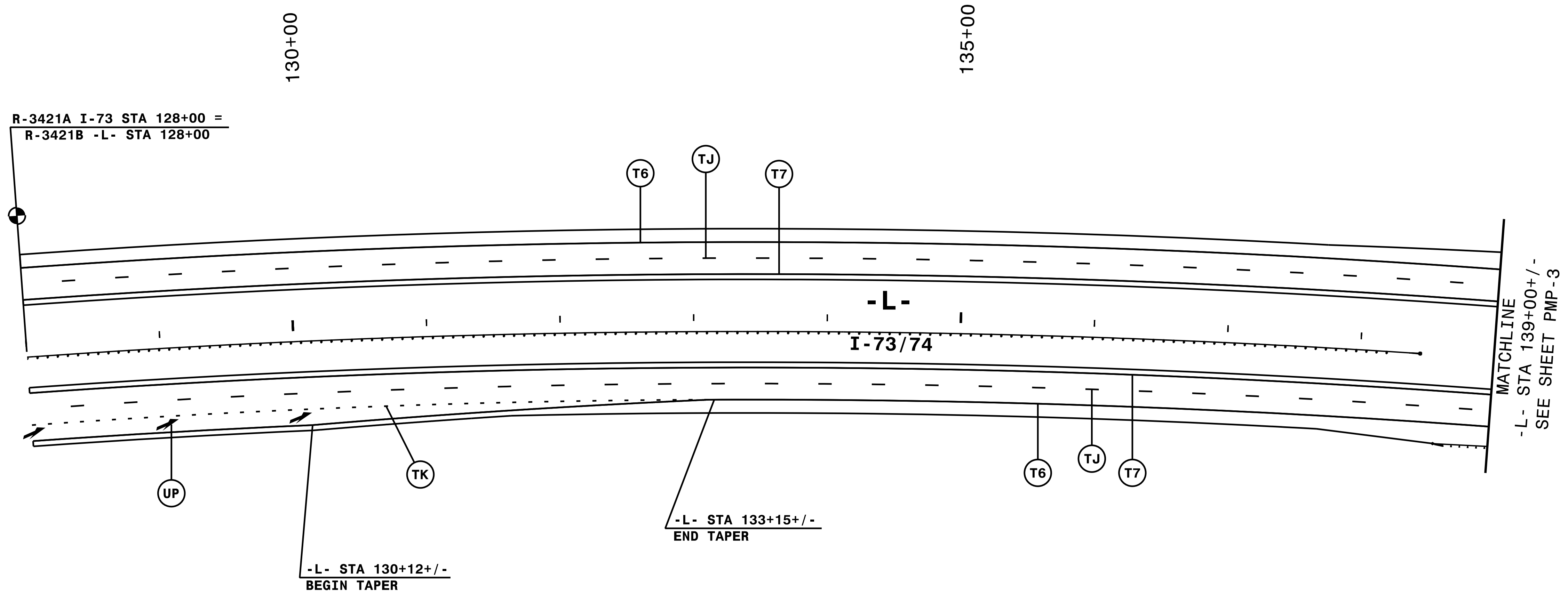
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PAVEMENT MARKING DETAIL

TIP NO. R-3421B	SHEET NO. PMP-2
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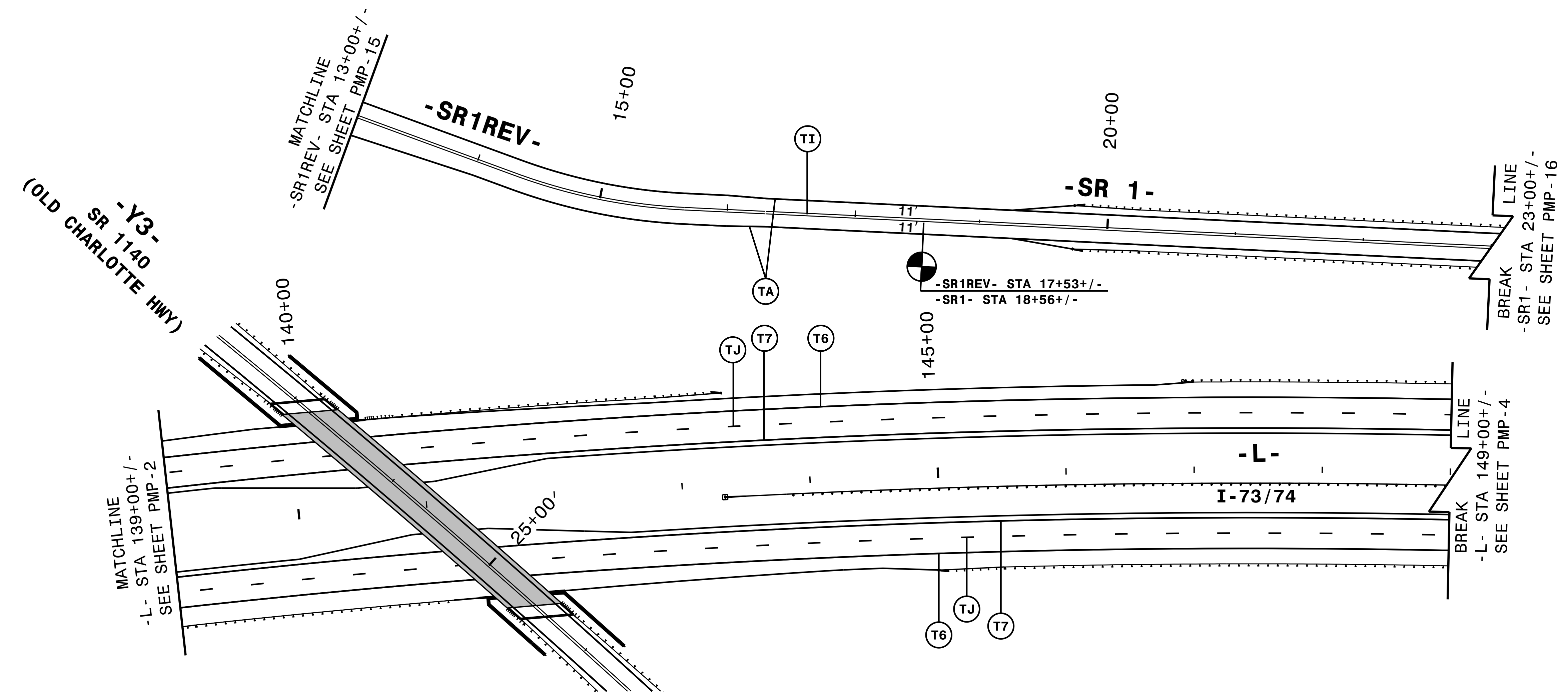
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PAVEMENT MARKING DETAIL

TIP NO. R-3421B	SHEET NO. PMP-3
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SEE PMP-15 FOR -Y3-
PAVEMENT MARKINGS

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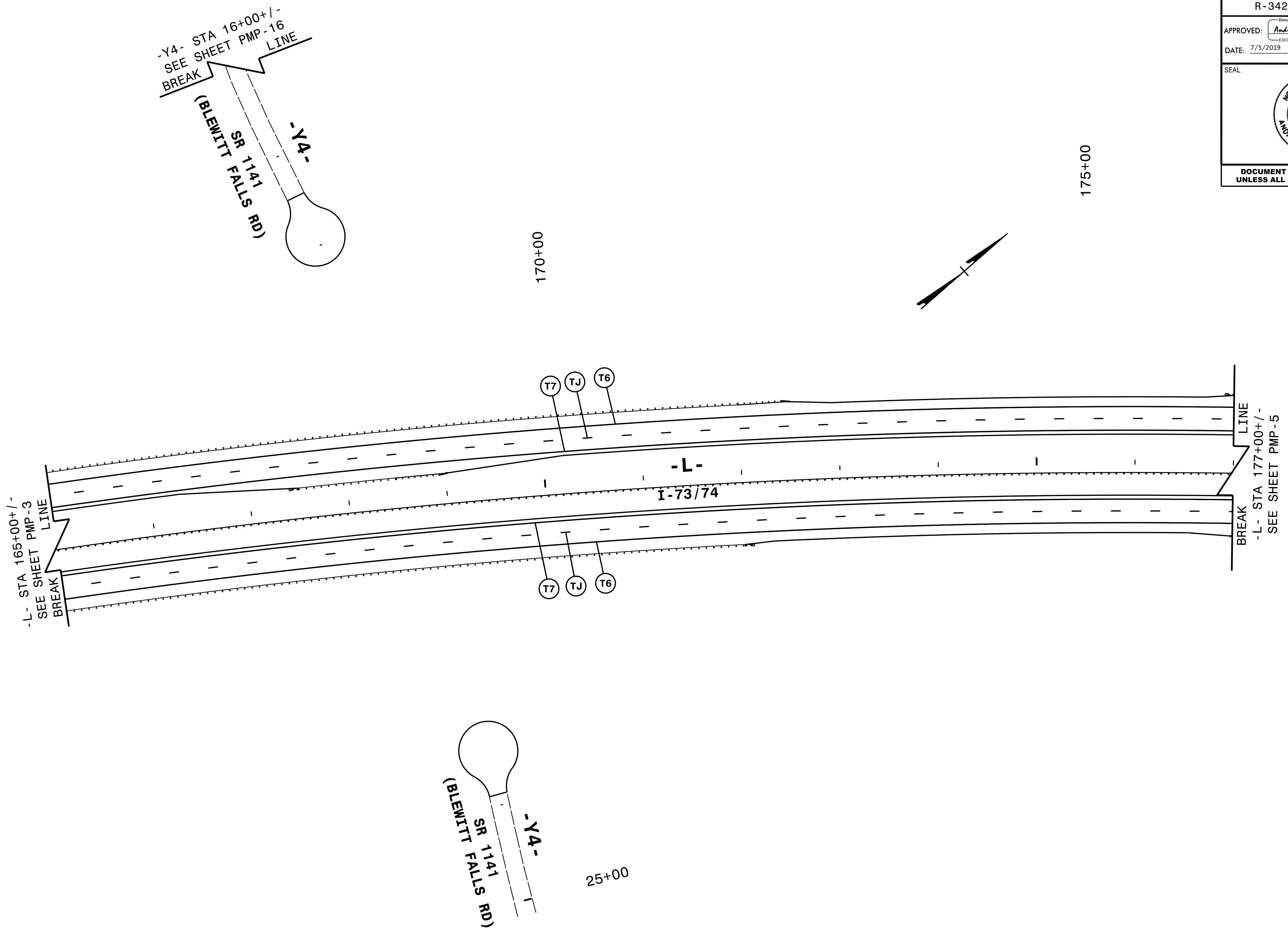
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TIP NO. R-3421B	SHEET NO. PMP-4
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DATE: 7/5/2019	
	
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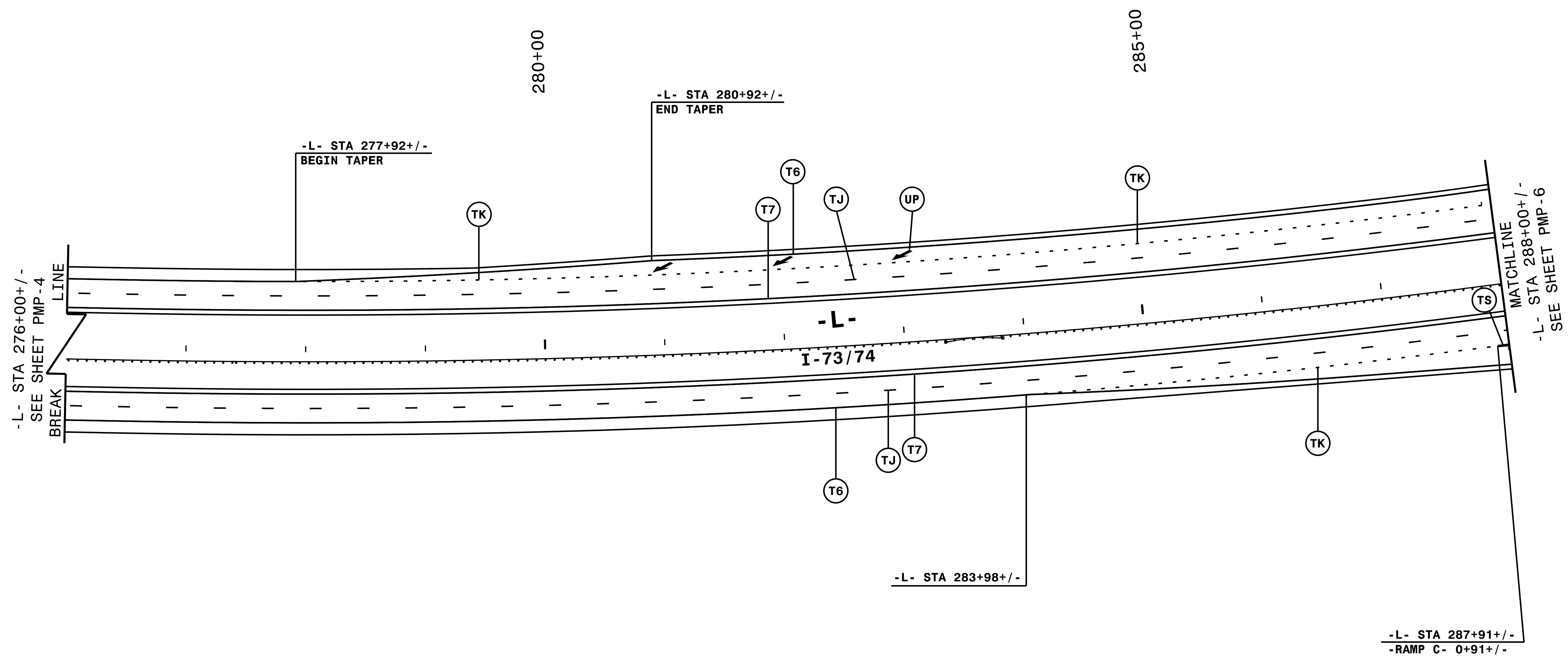
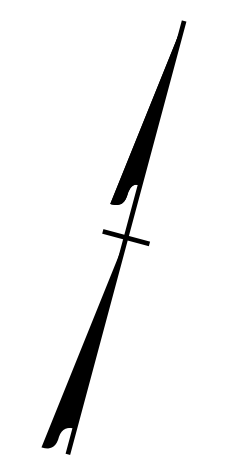
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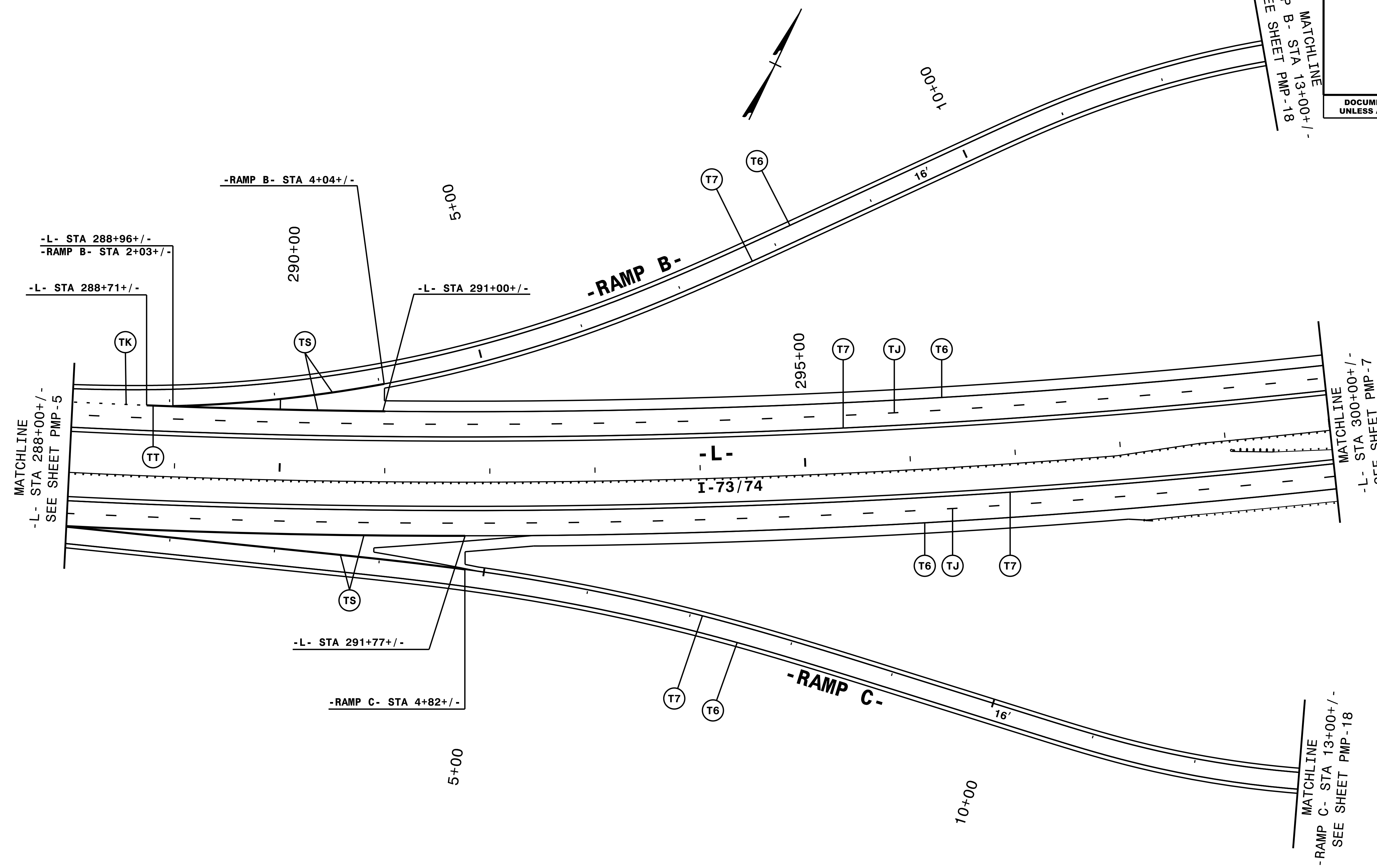
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TIP NO. R-3421B	SHEET NO. PMP-6
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DATE: 7/5/2019	
	
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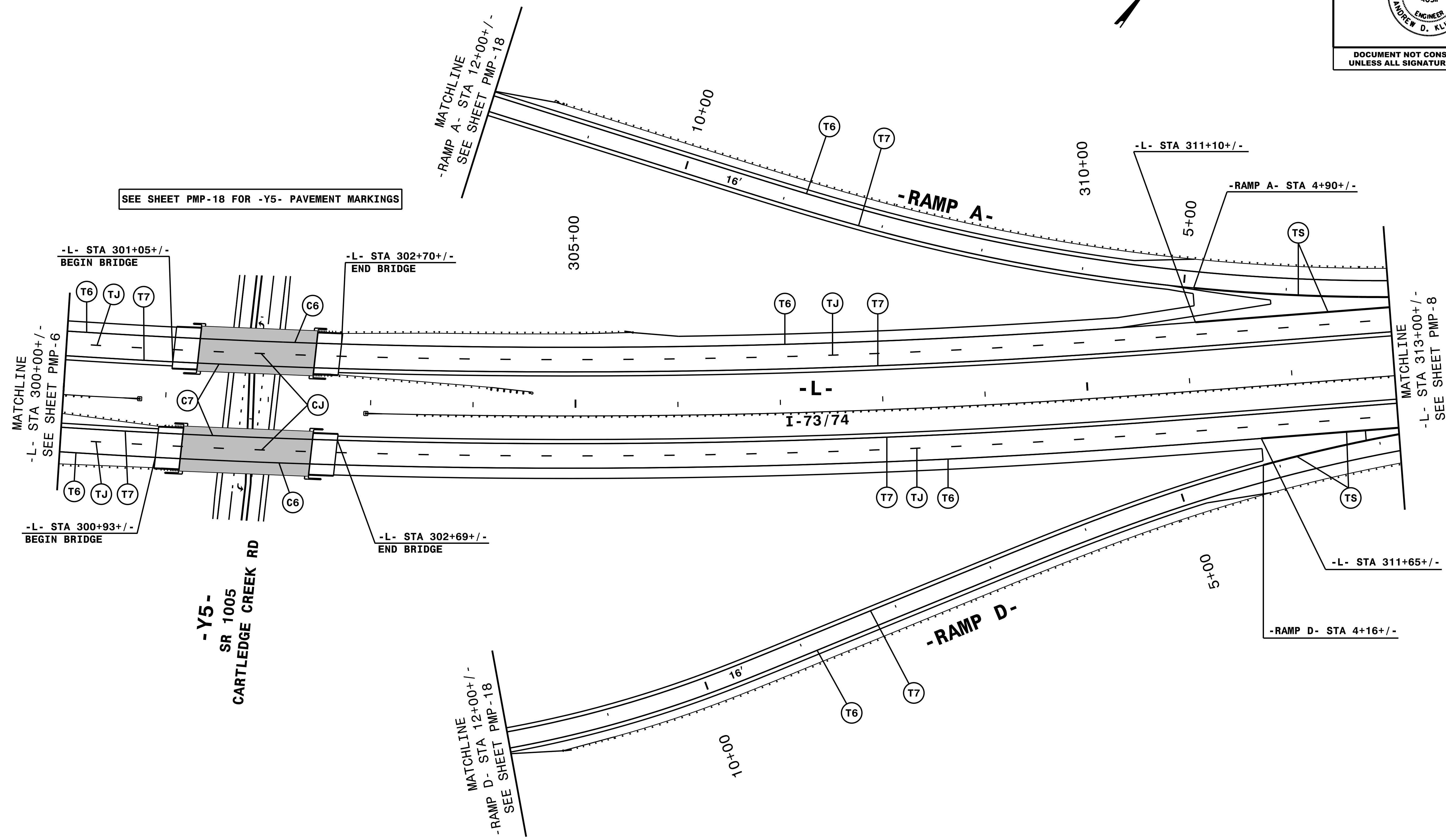
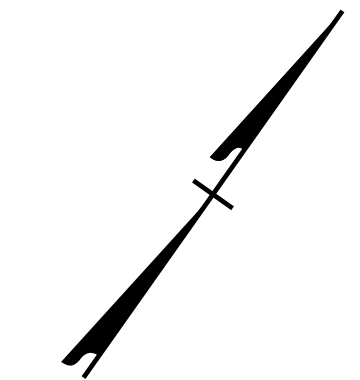
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TIP NO. R-3421B	SHEET NO. PMP-7
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DATE: 7/5/2019	
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SEE SHEET PMP-18 FOR -Y5- PAVEMENT MARKINGS

-L- STA 301+05+/-
BEGIN BRIDGE

-L- STA 302+70+/-
END BRIDGE

MATCHLINE
-L- STA 300+00+/-
SEE SHEET PMP-6

-L- STA 300+93+/-
BEGIN BRIDGE

-L- STA 302+69+/-
END BRIDGE

MATCHLINE
-L- STA 313+00+/-
SEE SHEET PMP-8

-Y5-
SR 1005
CARTLEDGE CREEK RD

MATCHLINE
-RAMP D- STA 12+00+/-
SEE SHEET PMP-18

-RAMP D- STA 4+16+/-


NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

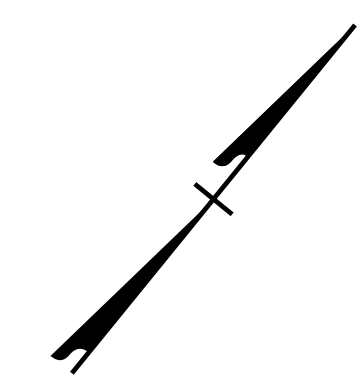
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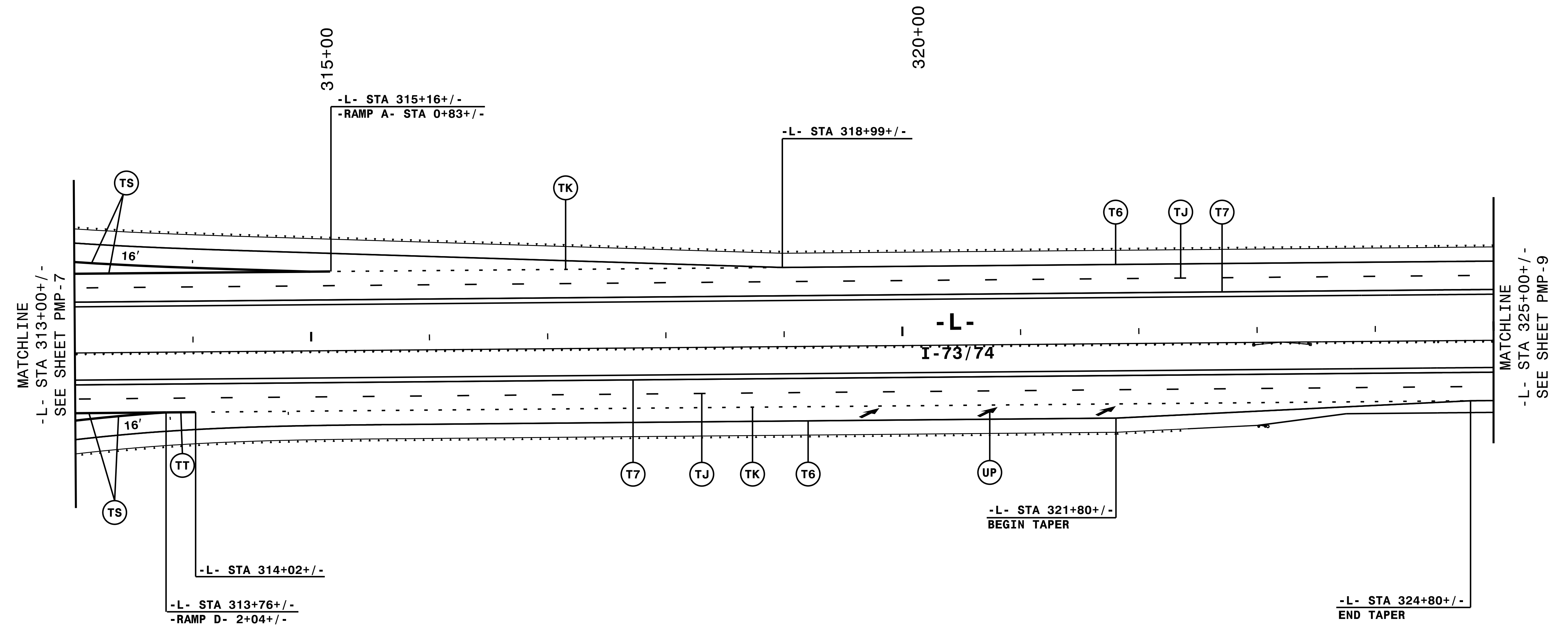
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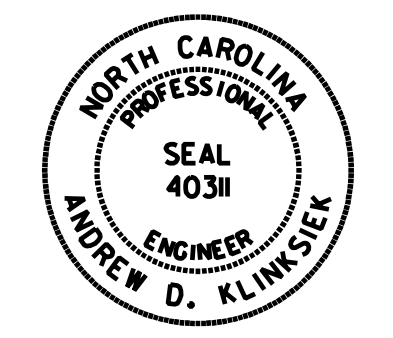


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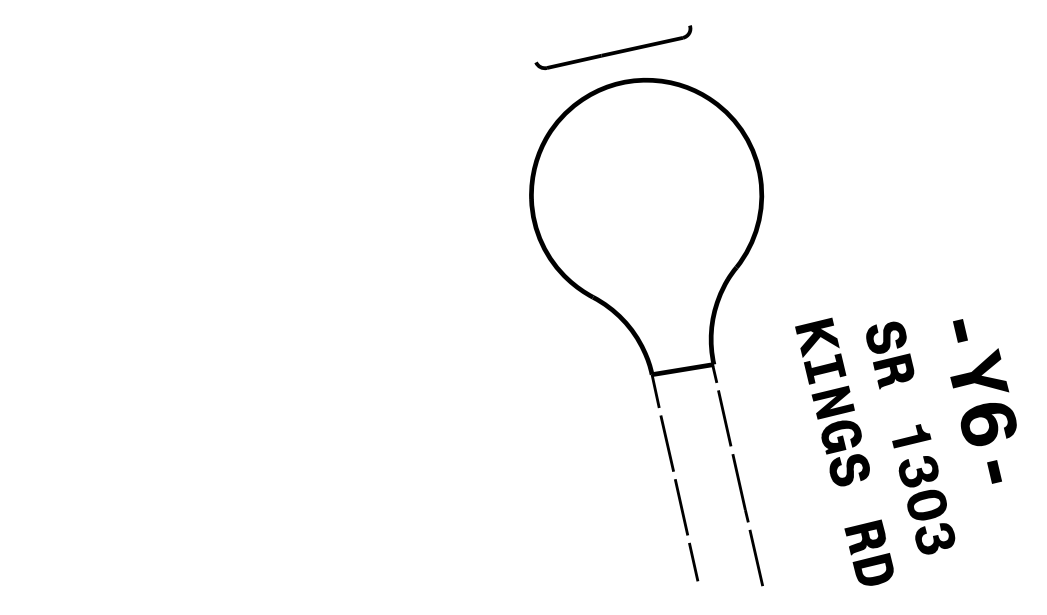
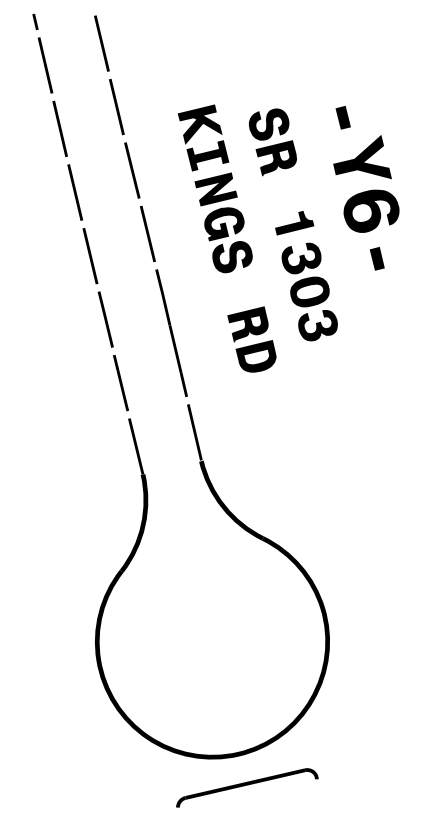
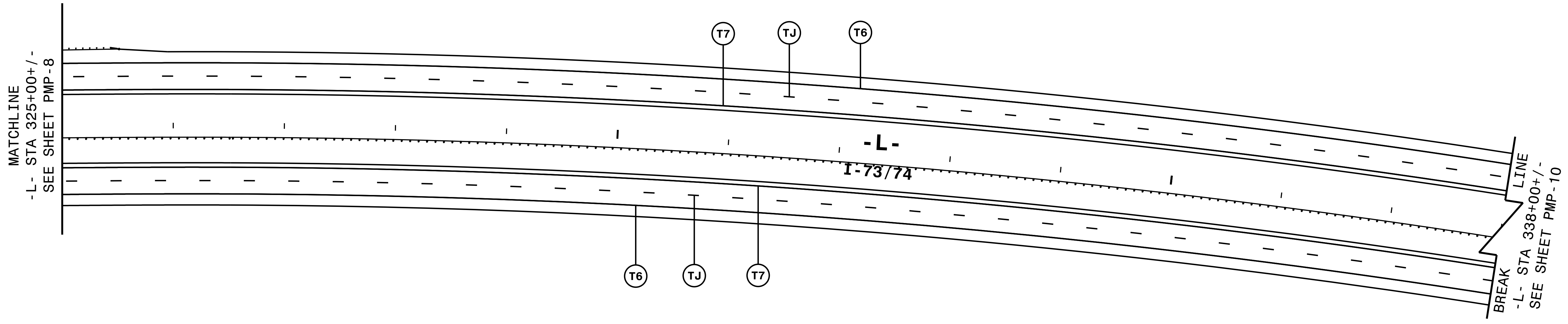
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TIP NO. R-3421B	SHEET NO. PMP-9
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DATE: 7/5/2019	
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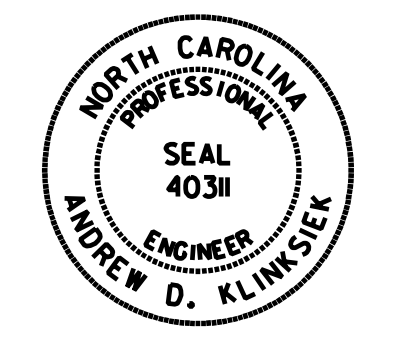


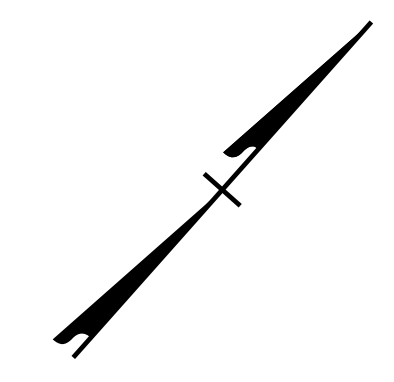
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BEGIN STATE PROJECT R-3421C
-L- POT STA. 355+00.00**

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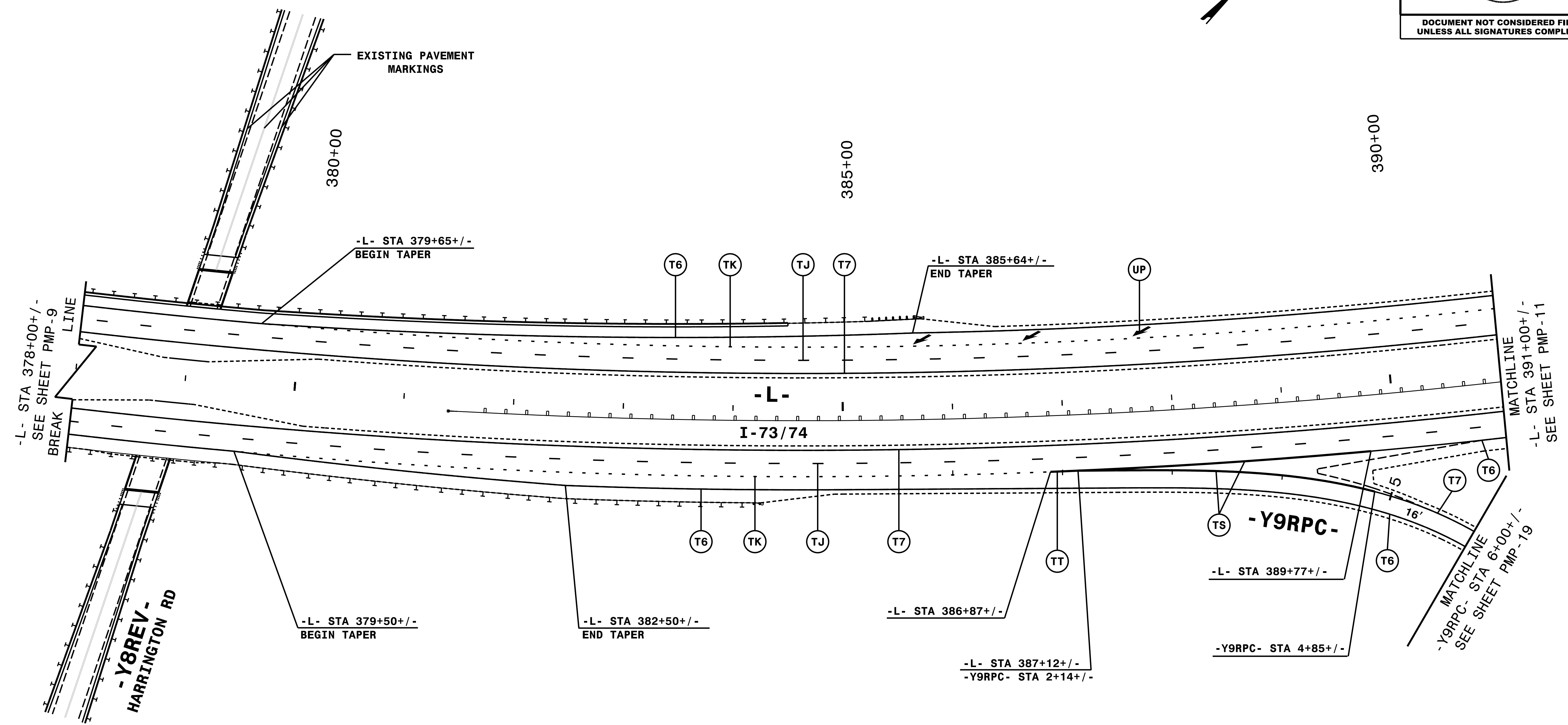
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PAVEMENT MARKING DETAIL

TIP NO. R-3421B	SHEET NO. PMP-10
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DATE: 7/5/2019	
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-Y8REV-
HARRINGTON RD


-Y9RPC-

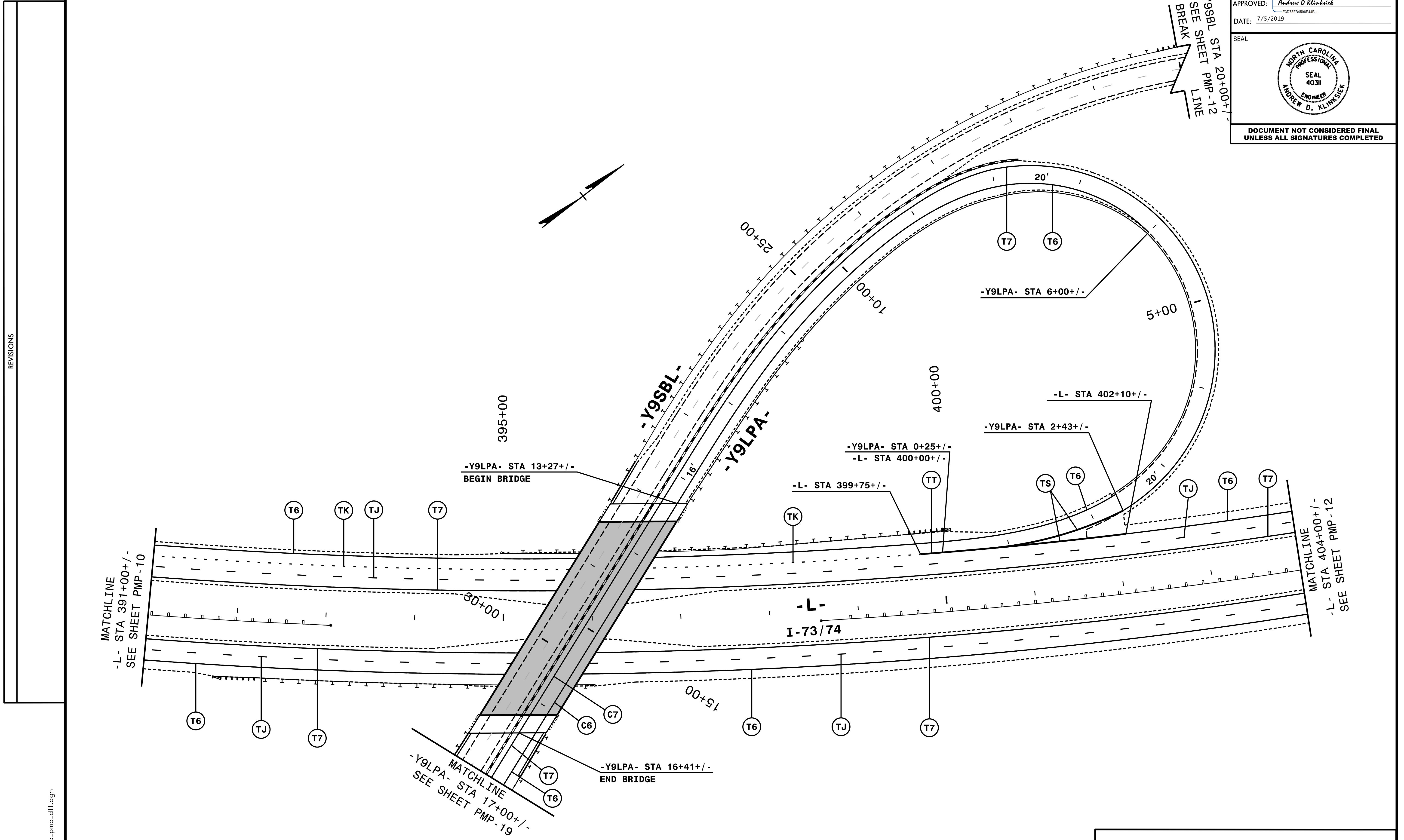
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MATCHLINE
-L- STA 391+00+/-
SEE SHEET PMP-10

MATCHLINE
-L- STA 404+00+/-
SEE SHEET PMP-12

T6 TJ T7

T6 TK TJ T7

TK TS T6 TJ T6 T7

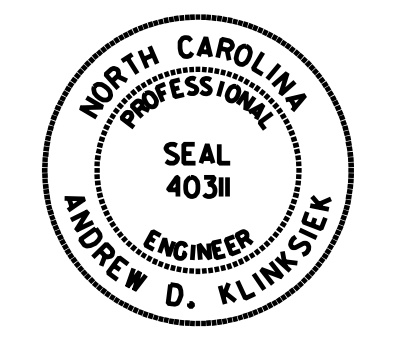
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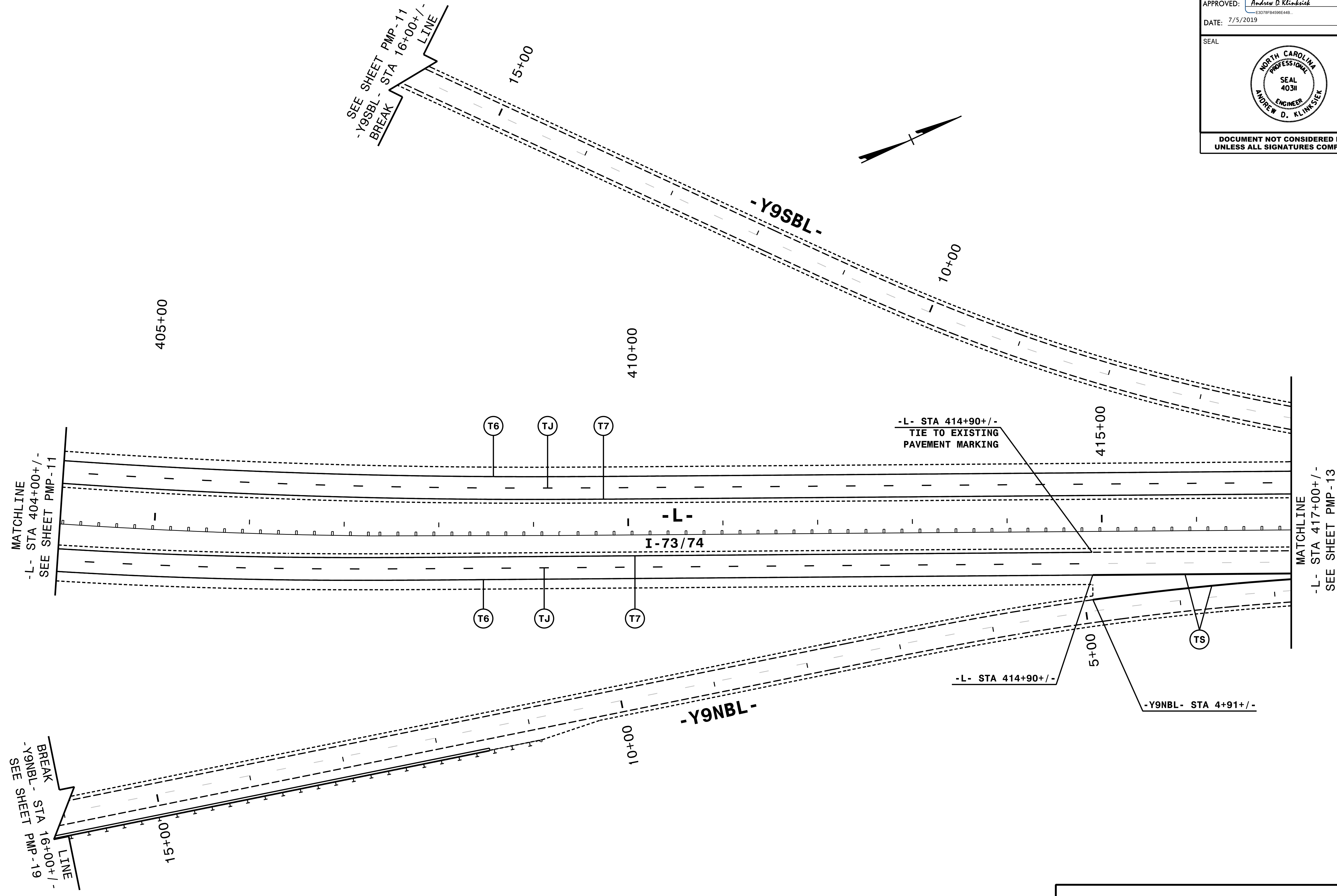
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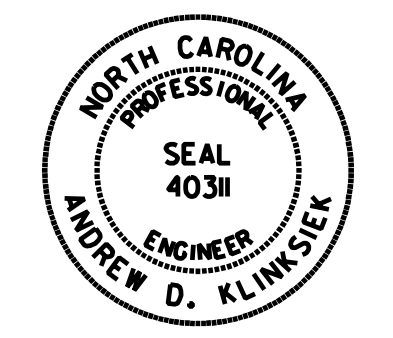


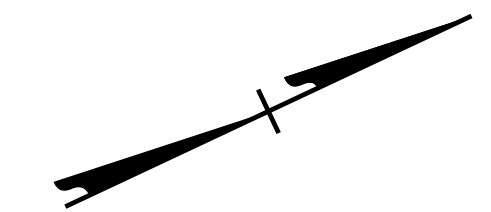
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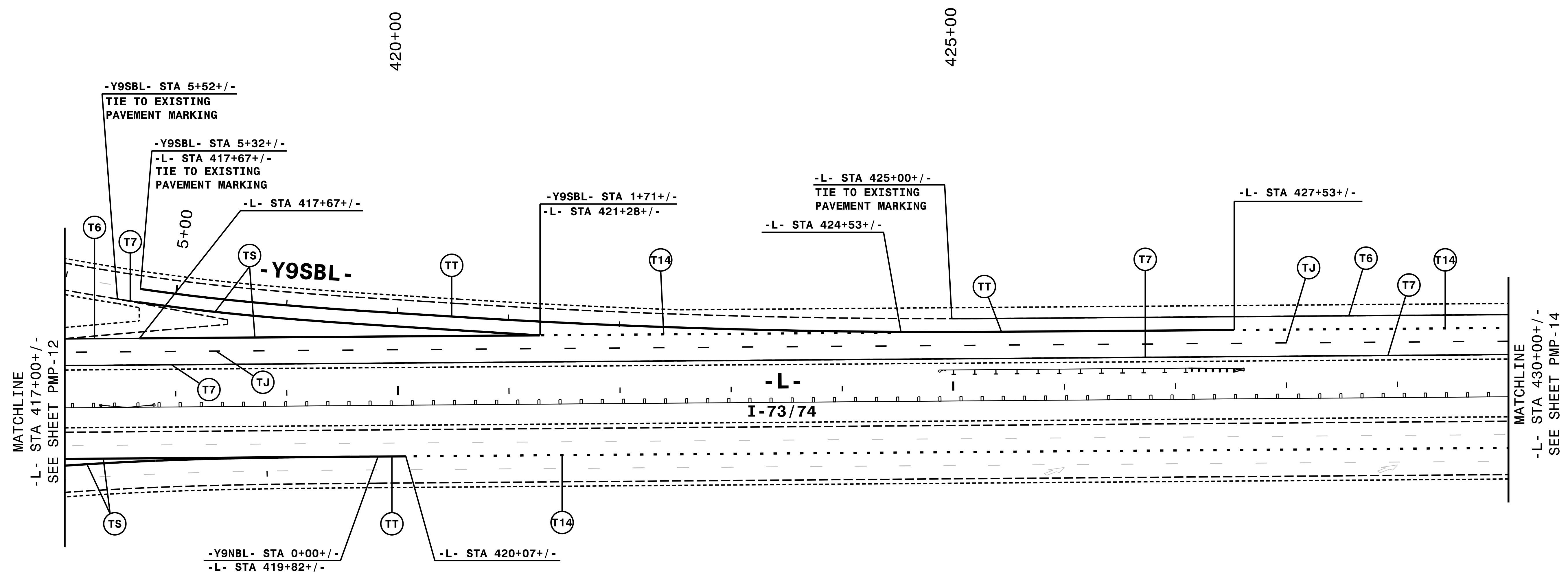
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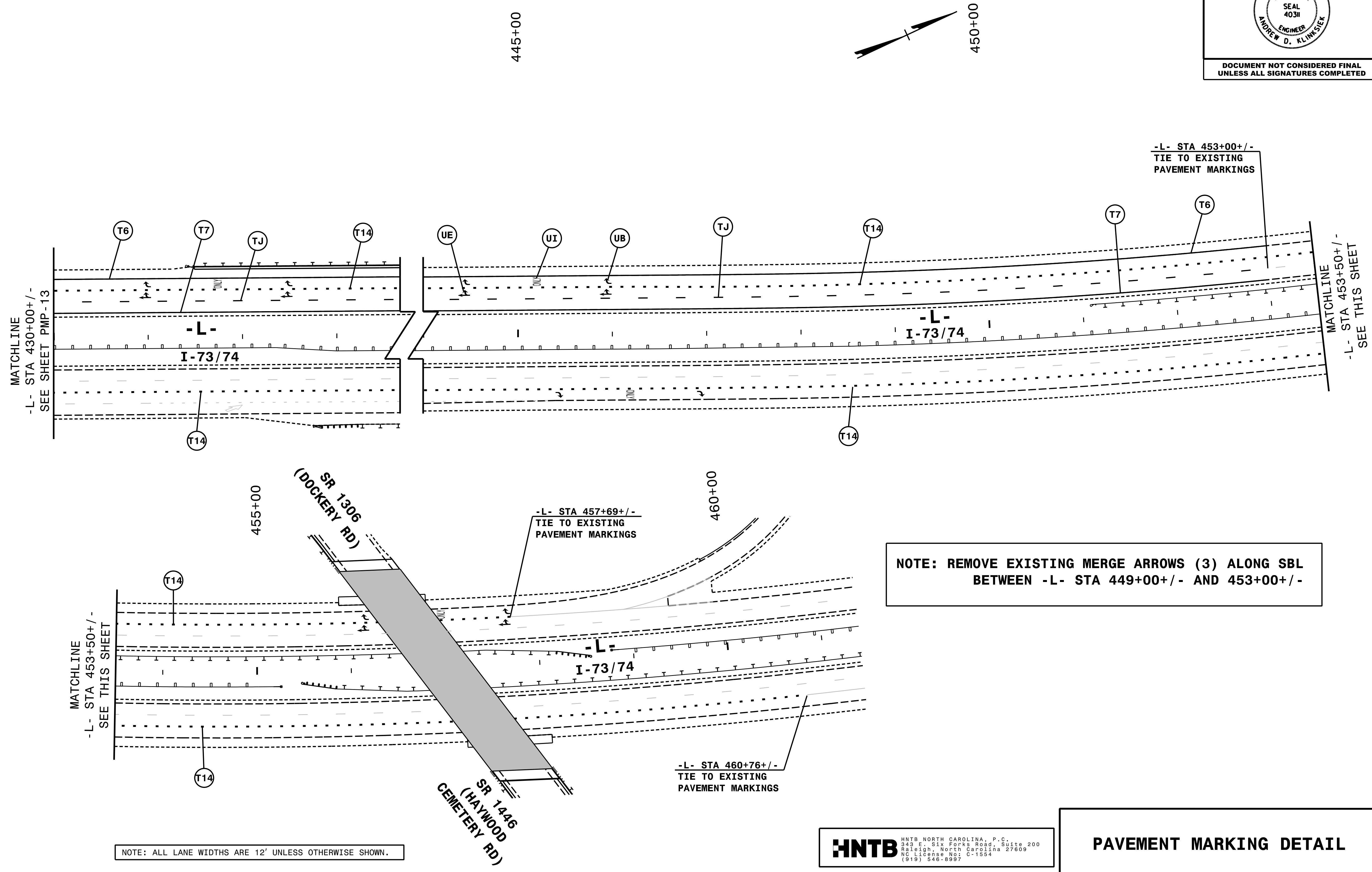
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TIP NO. R-3421B	SHEET NO. PMP-14
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DATE: 7/5/2019	
	
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NOTE: REMOVE EXISTING MERGE ARROWS (3) ALONG SBL BETWEEN -L- STA 449+00+/- AND 453+00+/-

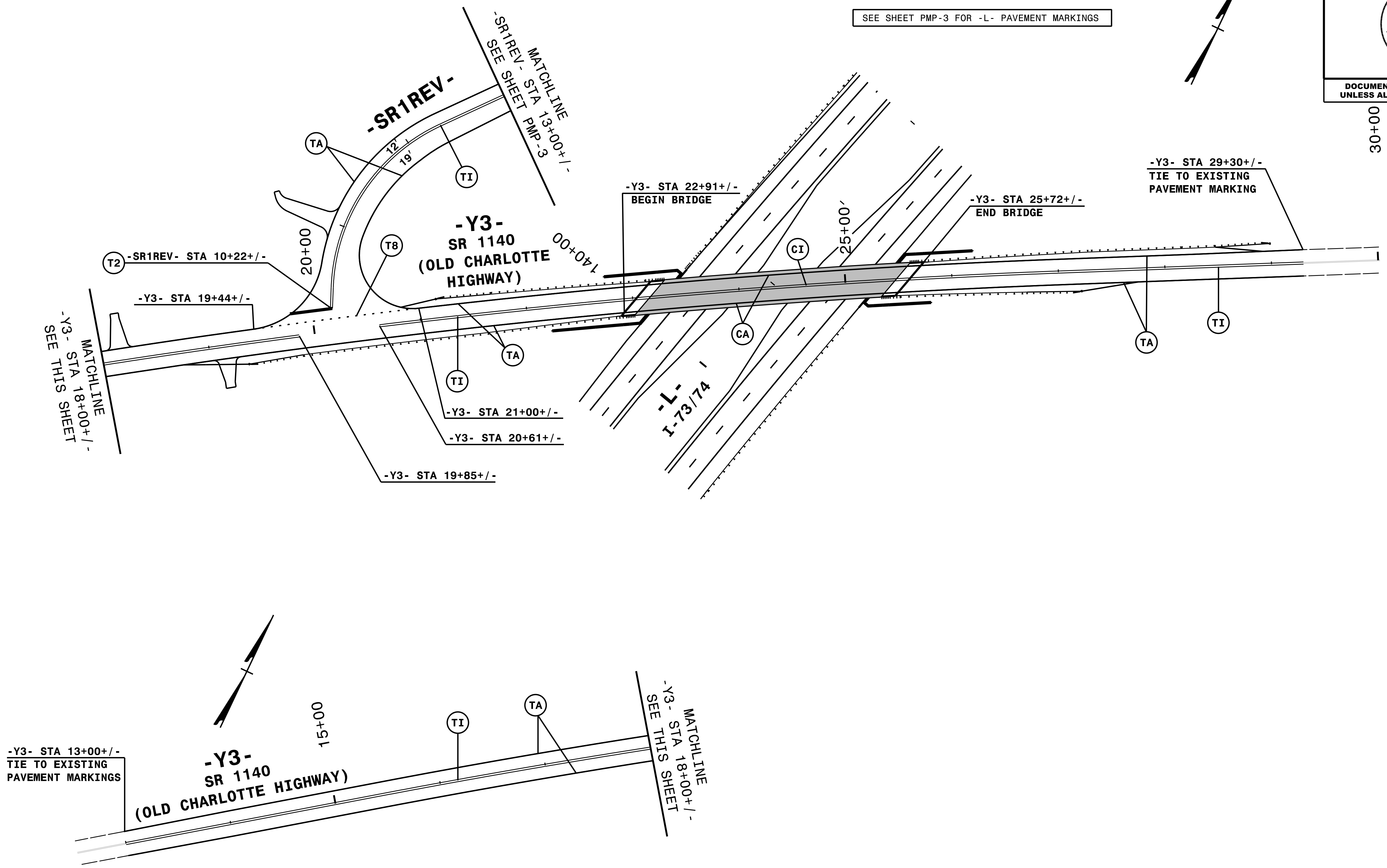
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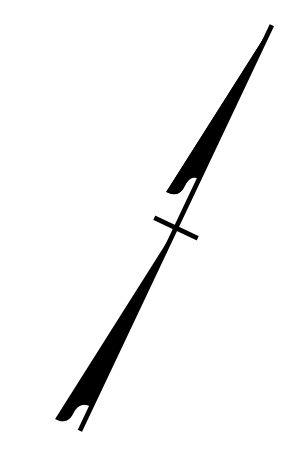
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DATE: 7/5/2019	
SEAL 	
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SEE SHEET PMP-3 FOR -L- PAVEMENT MARKINGS



30+00

REVISIONS

-Y3- STA 13+00+/-
TIE TO EXISTING
PAVEMENT MARKINGS

**-Y3-
SR 1140
(OLD CHARLOTTE HIGHWAY)**


MATCHLINE
-Y3- STA 18+00+/-
SEE THIS SHEET

NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

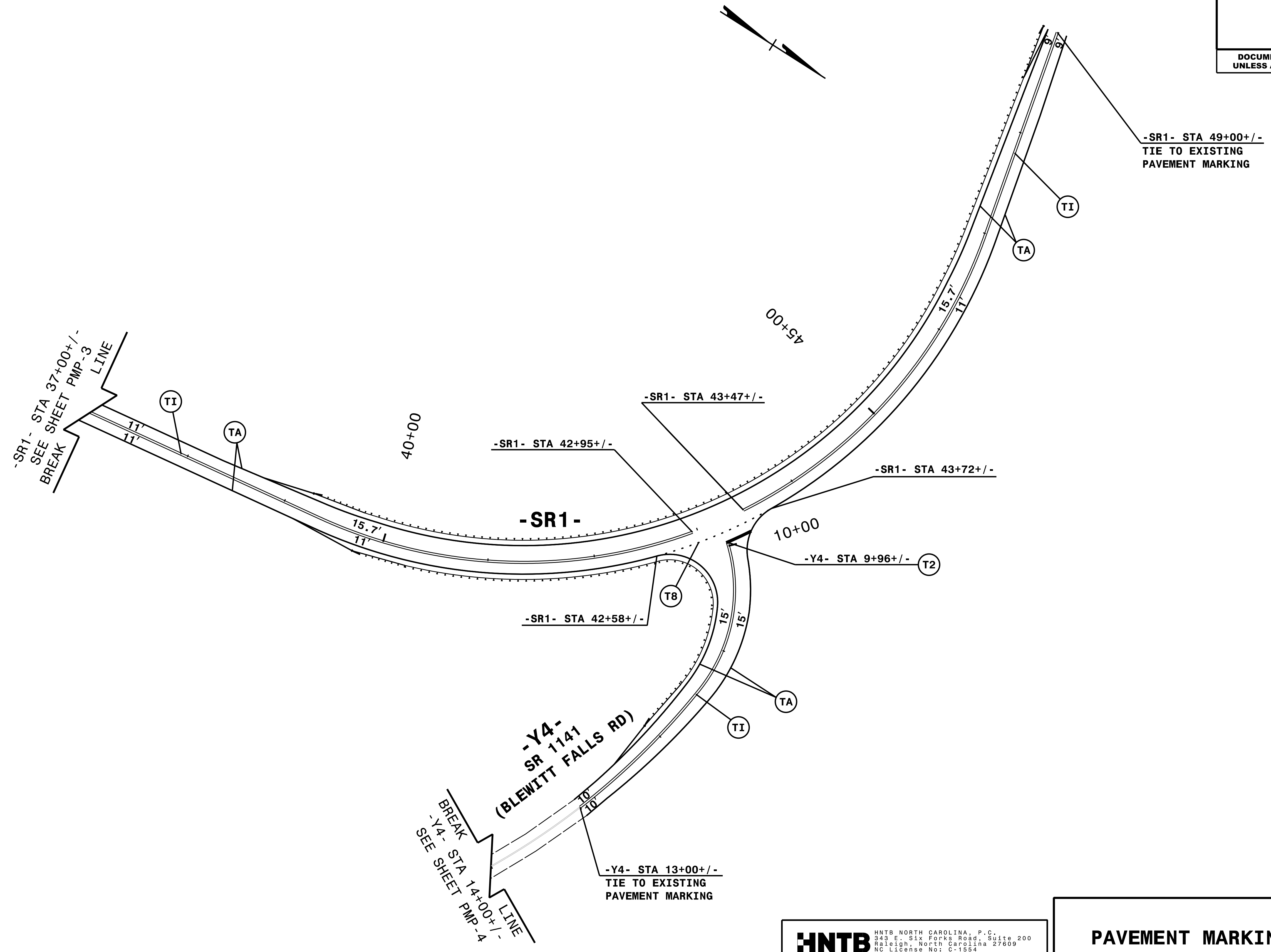
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

PAVEMENT MARKING DETAIL

6/16/2019 9:34:21b_pmp.d15.dgn
HNTB

TIP NO. R-3421B	SHEET NO. PMP-16
APPROVED: <i>Andrew D. Klincksiek</i> <small>E3078FB4596E44B...</small>	
DATE: 7/5/2019	
	
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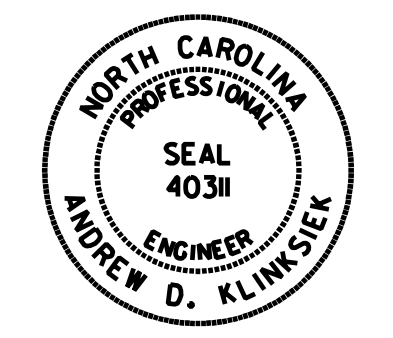
REVISIONS

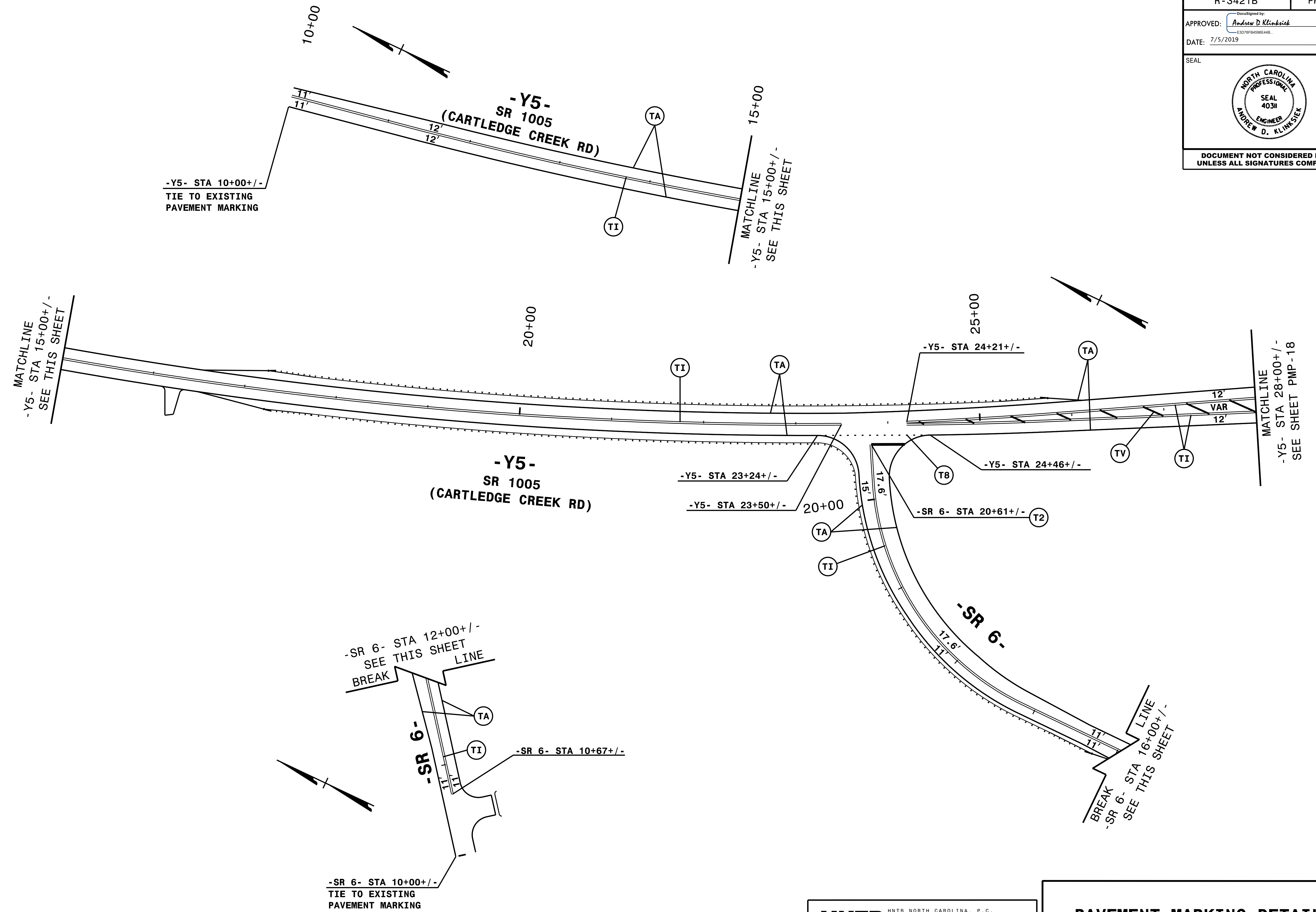


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PAVEMENT MARKING DETAIL

TIP NO. R-3421B	SHEET NO. PMP-17
APPROVED: <i>Andrew D. Klincksiek</i> <small>ES078FB4596E4B...</small>	
DATE: 7/5/2019	
	
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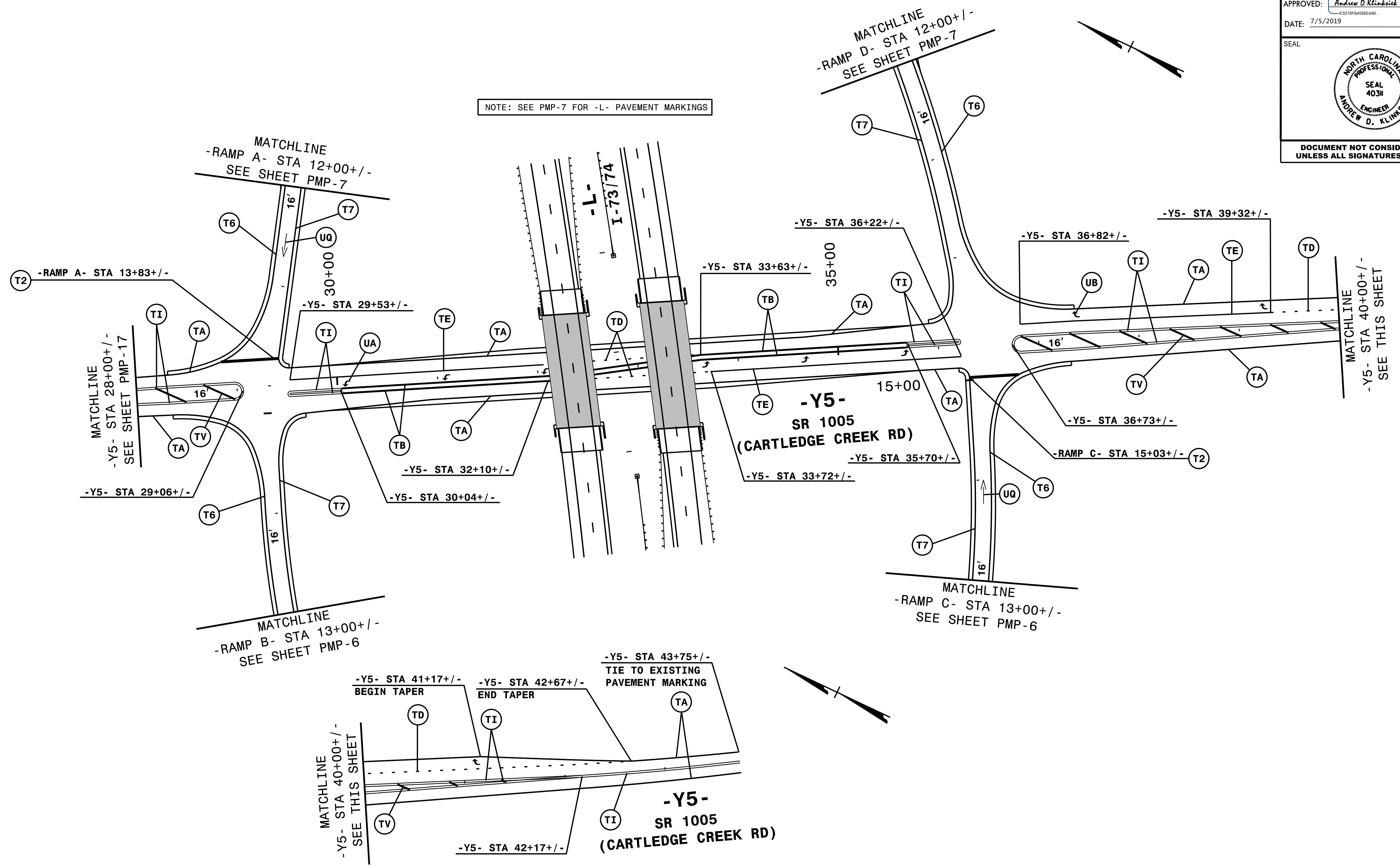
PAVEMENT MARKING DETAIL

REVISIONS

6/16/2019
R-3421b.pmp.d17.dgn
HNTB

TIP NO. R-3421B	SHEET NO. PMP-18
APPROVED: <u>Andrew D. Klinisiek</u> <small>E3078FB459E44B...</small>	
DATE: 7/5/2019	
	
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NOTE: SEE PMP-7 FOR -L- PAVEMENT MARKINGS




NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

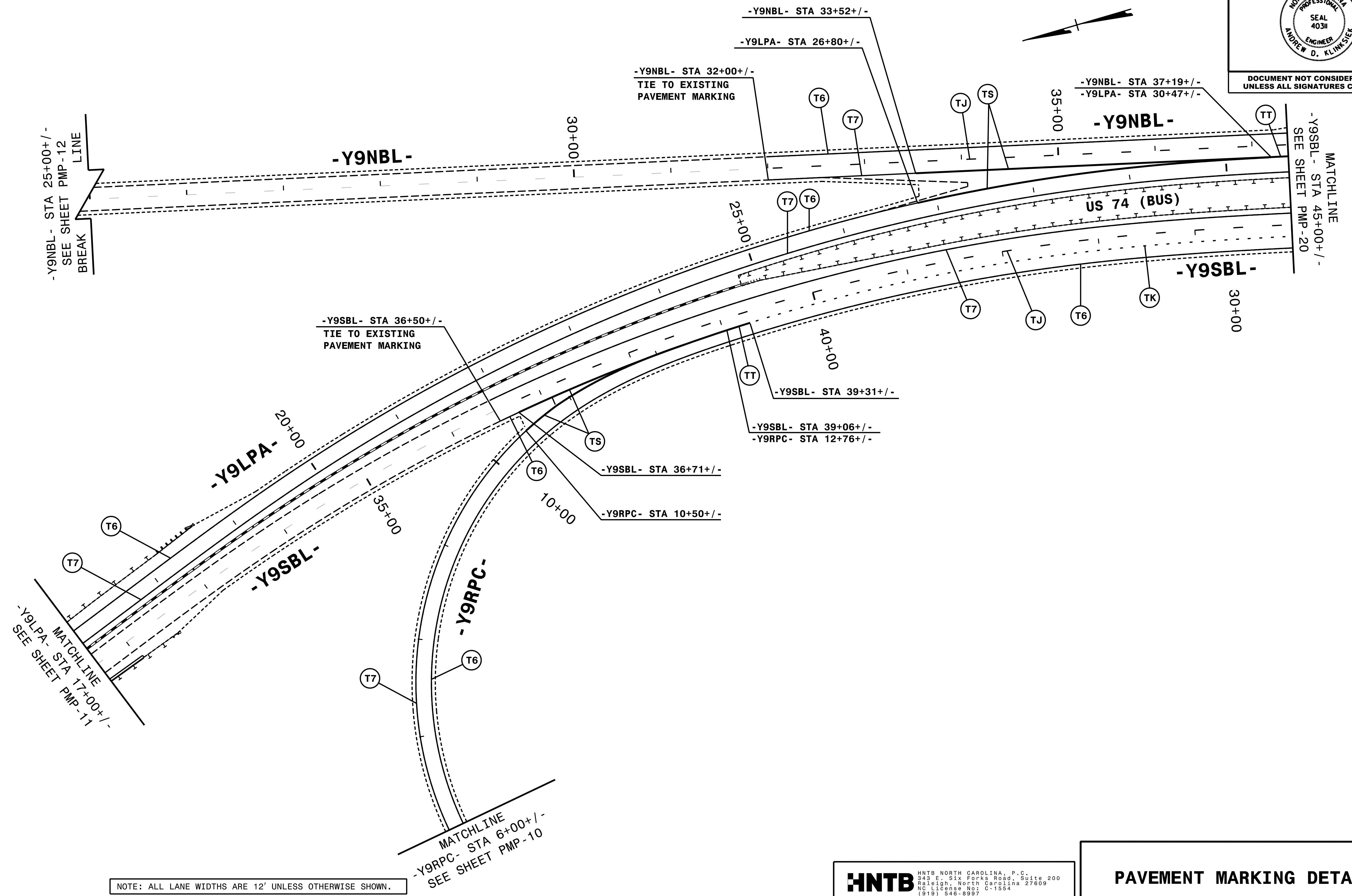
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PAVEMENT MARKING DETAIL

REVISIONS

6/16/2019
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HNTB

TIP NO. R-3421B	SHEET NO. PMP-19
APPROVED: <i>Andrew D. Klincksiek</i> <small>E3078FB459E44B...</small>	
DATE: 7/5/2019	
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REVISIONS

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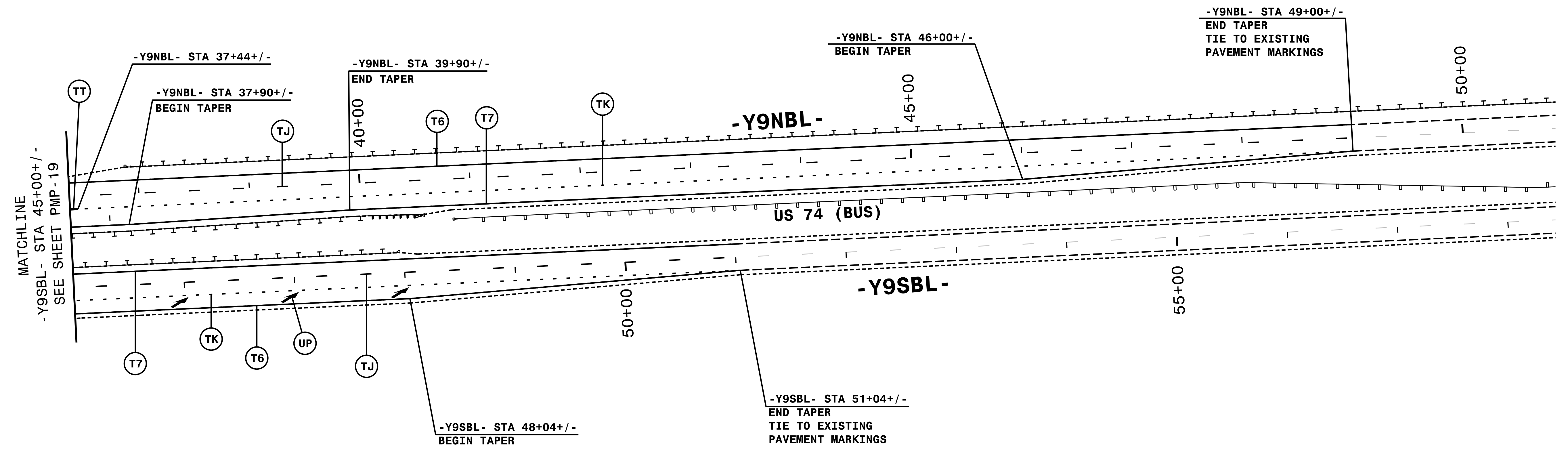
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PAVEMENT MARKING DETAIL

6/12/2019 11:34:21b.pmp.d19.dgn
HNTB

TIP NO. R-3421B	SHEET NO. PMP-20
APPROVED: <i>Andrew D. Klincksiek</i> <small>E3078FB459E44B...</small>	
DATE: 7/5/2019	
	
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PAVEMENT MARKING DETAIL

6/12/2019
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