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CONTRACT: C204104 T.I.P.: I-5714 / U-5114

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
MECKLENBURG COUNTY**

TIP NO. I-5714 / U-5114	SHEET NO. PMP-1
<small>Designed by:</small> APPROVED: <u>Kelly L. Becker</u> <small>20275A782E9A48E</small>	
DATE: 4/20/2018	
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PMP-3 THRU PMP-20	PAVEMENT MARKING DETAIL

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 |
|-------------------------|---|--------------|
| -L- US 21 | THERMOPLASTIC W/HIGHLY REFLECTIVE MEDIA | SNOWPLOWABLE |
| -Y- SR 2136 (GILEAD RD) | THERMOPLASTIC W/HIGHLY REFLECTIVE MEDIA | SNOWPLOWABLE |
| I-77 RAMPS & REESE BLVD | THERMOPLASTIC W/HIGHLY REFLECTIVE MEDIA | SNOWPLOWABLE |
| OTHER -Y- LINES | THERMOPLASTIC W/HIGHLY REFLECTIVE MEDIA | NO MARKERS |
| BRIDGES | COLD APPLIED PLASTIC TYPE II OR III CONTRAST MARKINGS ON SKIPS & MINI-SKIPS | NO MARKERS |
- 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 (POLYUREA) 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) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

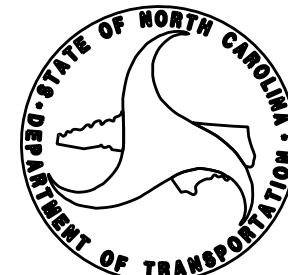
ROADWAY STANDARD DRAWING

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
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMPS
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1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.11	PAVEMENT MARKINGS - RAILROAD CROSSINGS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
1205.15	PAVEMENT MARKINGS - SUPERSTREETS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
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1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
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1266.01	RAISED PAVEMENT MARKERS - TUBULAR MARKERS
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

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

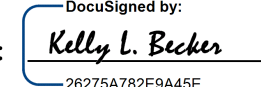

<u>Kelvin Jordan</u>	SIGNING & DELINEATION REGIONAL ENGINEER
<u>Jose Martinez, EI</u>	SIGNING & DELINEATION PROJECT DESIGN ENGINEER



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

<u>Kelly Becker, PE</u>	PROJECT ENGINEER
<u>J.A. Wagner, EI</u>	DESIGN ENGINEER

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TIP NO. I-5714 / U-5114	SHEET NO. PMP-1A
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FINAL PAVEMENT MARKING SCHEDULE

MATERIAL	SYMBOL	DESCRIPTION
PAVEMENT MARKING		
<u>COLD APPLIED PLASTIC (4") (TYPE 2)</u>		
	CB	YELLOW EDGELINE
	CE	WHITE SOLID LANE LINE
	C18	10 FT. CONTRAST WHITE/BLACK SKIP
	C20	2 FT.-6 FT./SP CONTRAST WHITE/BLACK MINISKIP
<u>COLD APPLIED PLASTIC (8") (TYPE 2)</u>		
	CR	WHITE SOLID LANE LINE
	C19	3 FT.-9 FT./SP CONTRAST WHITE/BLACK MINISKIP
<u>THERMOPLASTIC (4", 90 MILS)</u>		
	TA	WHITE EDGELINE
	TB	YELLOW EDGELINE
<u>THERMOPLASTIC (4", 120 MILS)</u>		
	T8	2 FT.-6 FT./SP WHITE MINISKIP
	T9	2 FT.-6 FT./SP YELLOW MINISKIP
	TC	10 FT. WHITE SKIP
	TD	3 FT.-9 FT./SP WHITE MINISKIP
	TE	WHITE SOLID LANE LINE
	TF	10 FT. YELLOW SKIP
	TH	YELLOW SINGLE CENTER
	TI	YELLOW DOUBLE CENTER
<u>THERMOPLASTIC (6", 90 MILS)</u>		
	T6	WHITE EDGELINE
	T7	YELLOW EDGELINE
<u>THERMOPLASTIC (6", 120 MILS)</u>		
	TJ	10 FT. WHITE SKIP
	TK	3 FT.-9 FT./SP WHITE MINISKIP
	TL	WHITE SOLID LANE LINE
<u>THERMOPLASTIC (8", 90 MILS)</u>		
	TN	WHITE GORELINE
	T0	WHITE DIAGONAL
	TP	YELLOW DIAGONAL
<u>THERMOPLASTIC (8", 120 MILS)</u>		
	T13	3 FT.-9 FT./SP WHITE MINISKIP
	TR	WHITE SOLID LANE LINE
<u>THERMOPLASTIC (12", 90 MILS)</u>		
	TS	WHITE GORELINE
	TU	WHITE DIAGONAL
	TV	YELLOW DIAGONAL
<u>THERMOPLASTIC (12", 120 MILS)</u>		
	TT	WHITE SOLID LANE LINE
<u>THERMOPLASTIC (24", 120 MILS)</u>		
	T2	WHITE STOPBAR
	T3	WHITE CROSSWALK LINE


<u>THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)</u>	
UA	LEFT TURN ARROW
UB	RIGHT TURN ARROW
UC	STRAIGHT ARROW
UE	COMBO STRAIGHT/RIGHT
UJ	BICYCLE SYMBOL
UK	BICYCLE STRAIGHT ARROW
UN	24" YIELD LINE TRIANGLE
UP	MERGE ARROW
UQ	RAMP ARROW
UT	U-TURN ARROW
YE	IN LANE ROUTE SHIELD


<u>THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)</u>	
UI	ALPHANUMERIC CHAR.



<u>SNOWPLOWABLE PAVEMENT MARKERS (NOT SHOWN)</u>	
ME	YELLOW & YELLOW
MF	CRYSTAL & RED

LEGEND

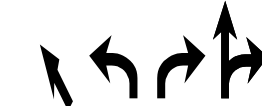
GENERAL


 DIRECTION OF TRAFFIC FLOW

 NORTH ARROW



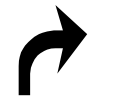

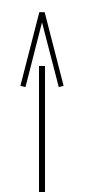



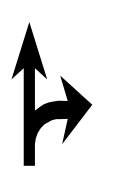


 PROPOSED PVMT.  EXIST. PVMT.

PAVEMENT MARKINGS

 PAVEMENT MARKING SYMBOLS

 ONLY PAVEMENT MARKING CHARACTERS

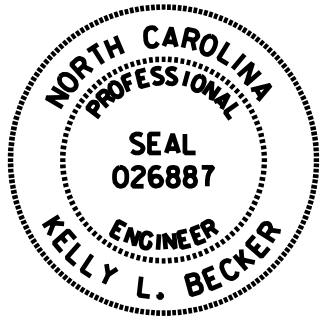
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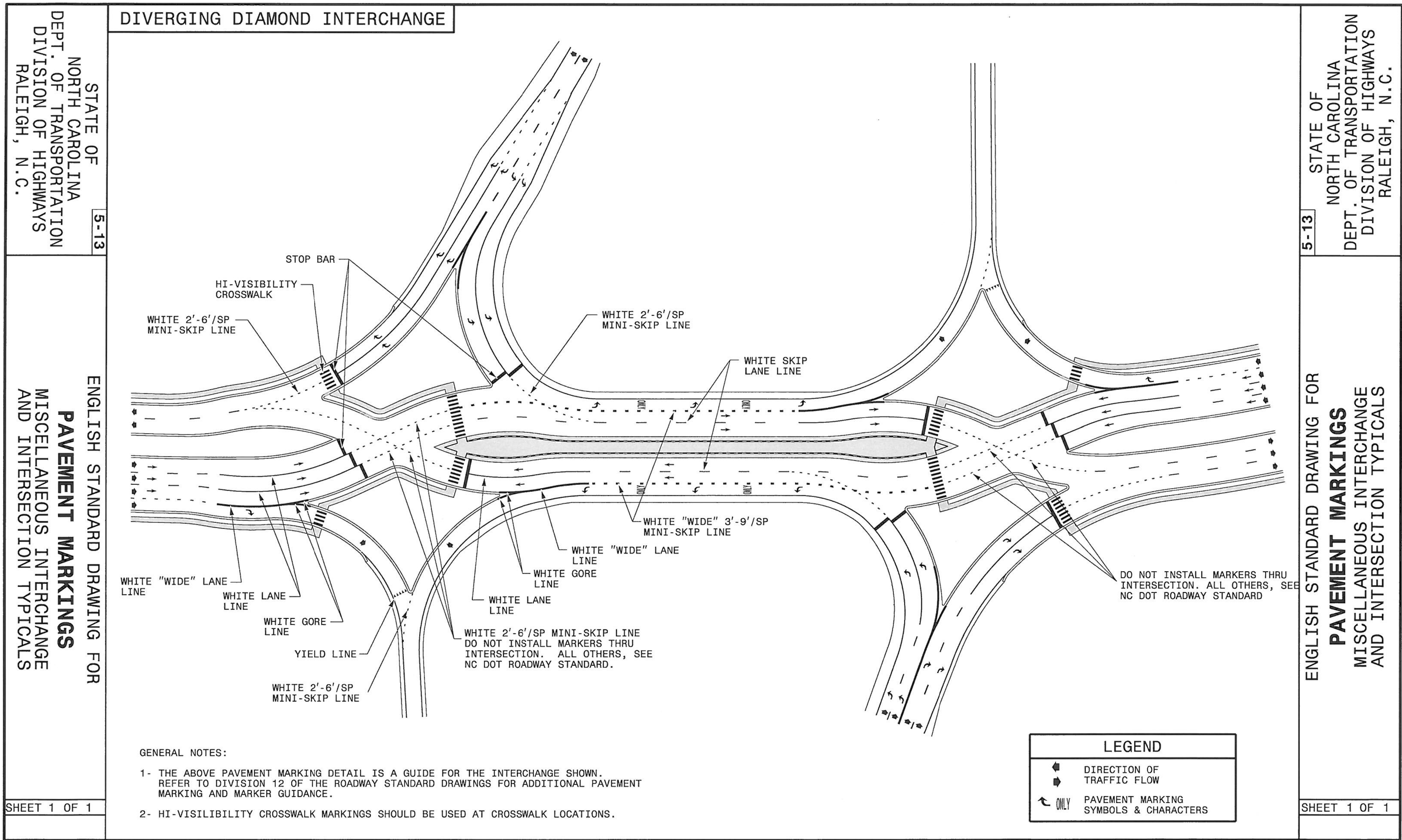
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	UB		UJ		UQ
	UC		UK		UT
	UE		UN		YE

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PAVEMENT MARKING SCHEDULE AND LEGEND


TIP NO. I - 5714 / U - 5114	SHEET NO. PMP - 2
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
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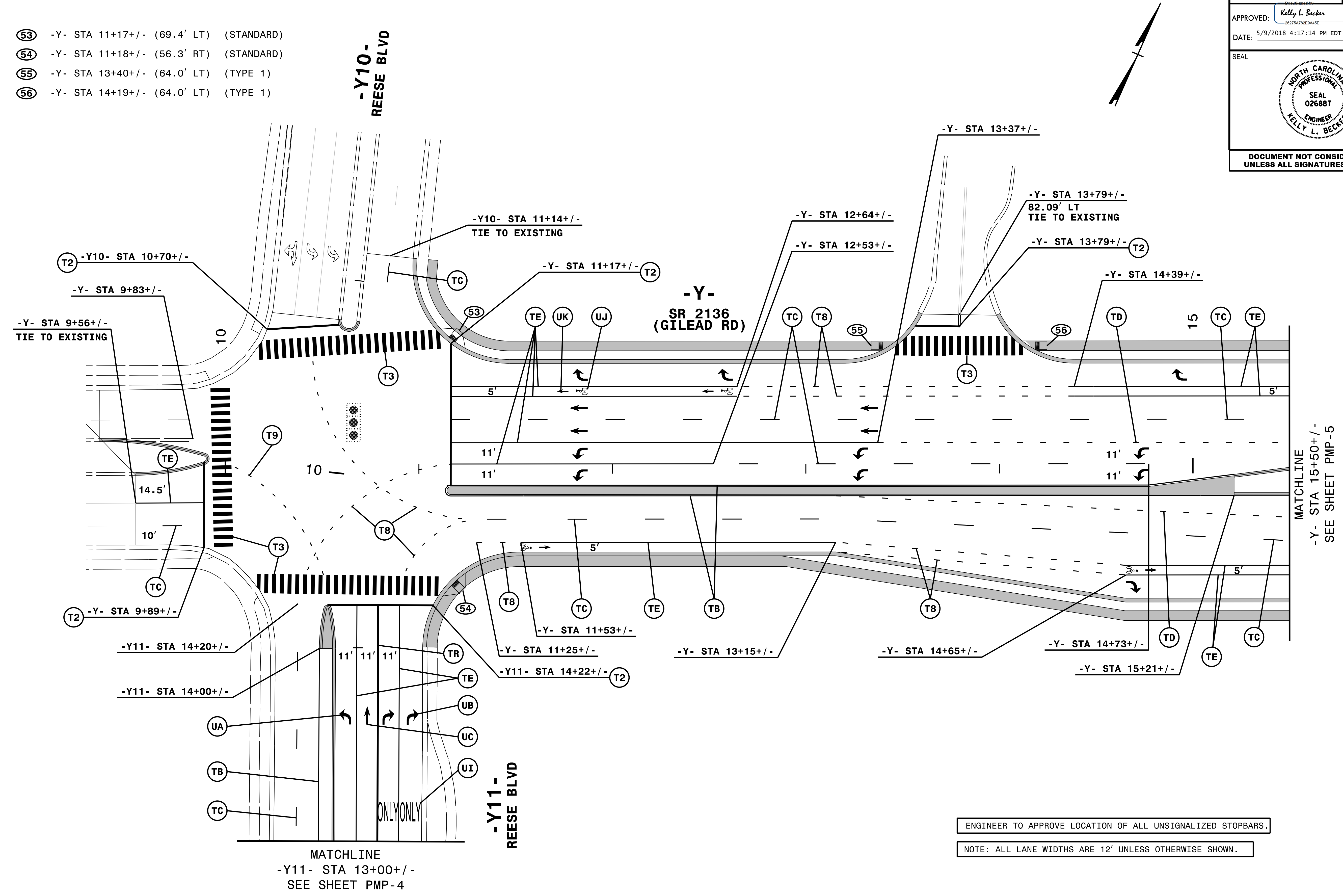
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**DIVERGING DIAMOND
INTERCHANGE TYPICAL
PAVEMENT MARKING LAYOUT**

TIP NO. I-5714 / U-5114	SHEET NO. PMP-3
APPROVED: <i>Kelly L. Becker</i> DATE: 5/9/2018 4:17:14 PM EDT	
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- 53 -Y- STA 11+17+/- (69.4' LT) (STANDARD)
- 54 -Y- STA 11+18+/- (56.3' RT) (STANDARD)
- 55 -Y- STA 13+40+/- (64.0' LT) (TYPE 1)
- 56 -Y- STA 14+19+/- (64.0' LT) (TYPE 1)




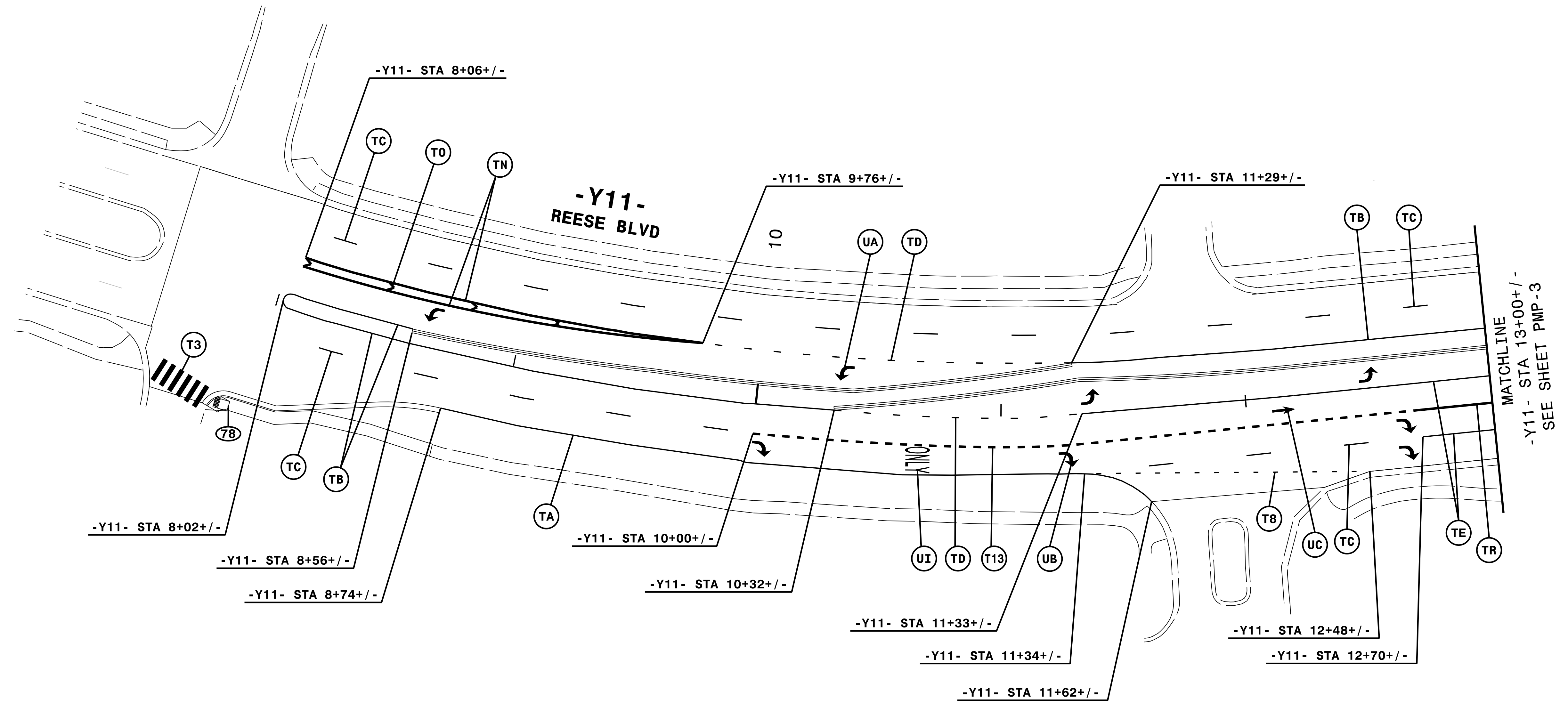
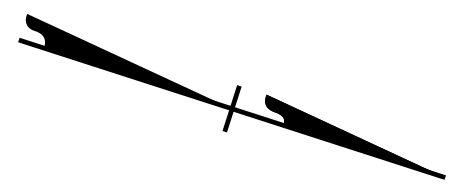
ENGINEER TO APPROVE LOCATION OF ALL UNSIGNALIZED STOPBARS.
 NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

5/3/2018
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-4
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4E	
DATE: 4/20/2018	
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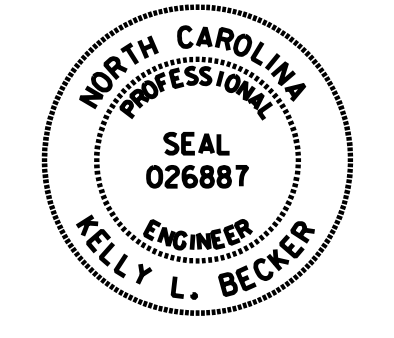
(78) -Y11- STA 7+88+/- (42.9' RT) (TYPE 1)

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

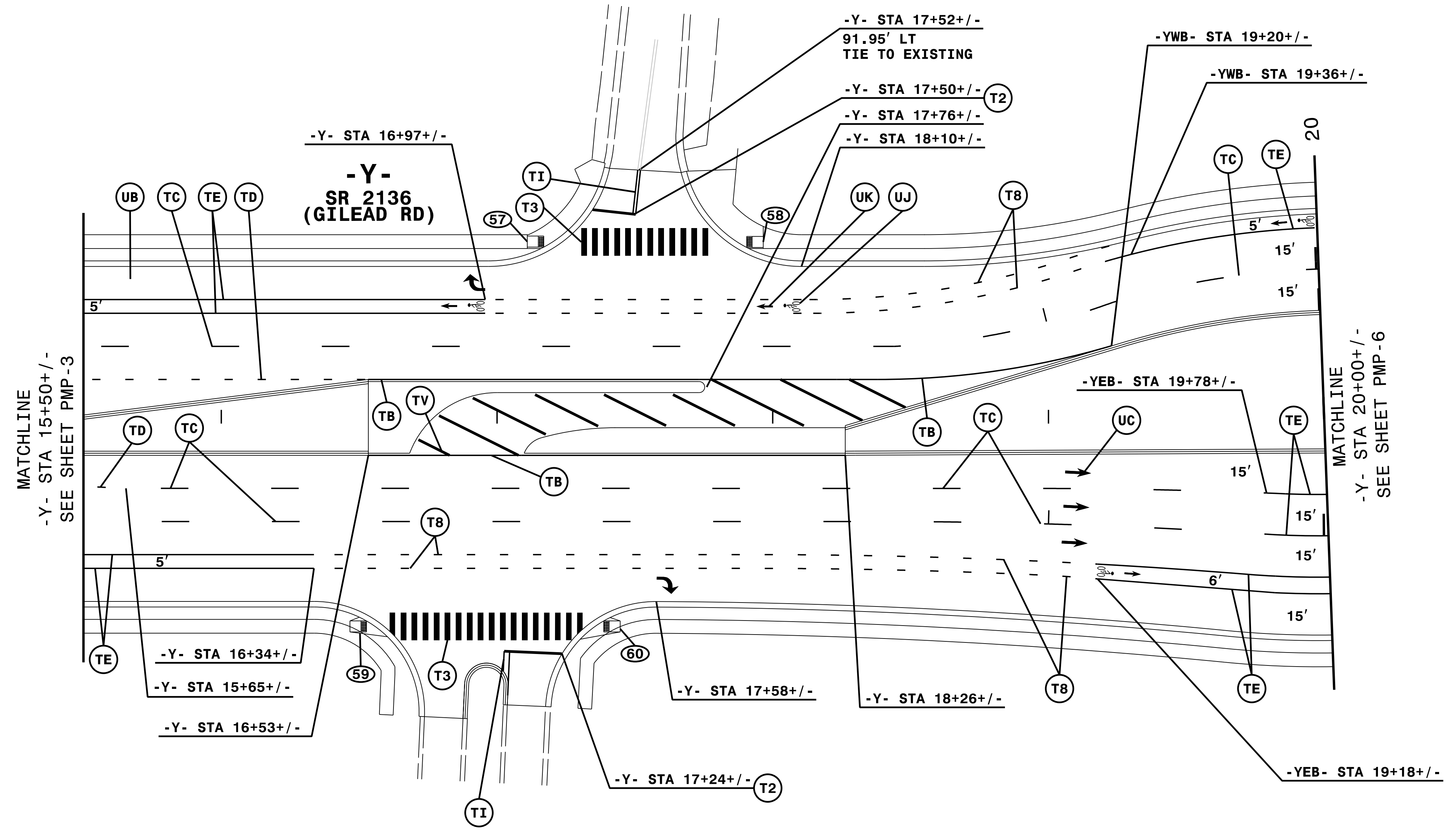
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-5
APPROVED: <i>Kelly L. Becker</i> <small>2018/05/09 4:17:14 PM EDT</small>	
DATE: 5/9/2018 4:17:14 PM EDT	
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- 57 -Y- STA 17+17+/- (64.0' LT) (TYPE 1)
- 58 -Y- STA 17+91+/- (63.9' LT) (TYPE 1)
- 59 -Y- STA 16+53+/- (71.5' RT) (TYPE 1)
- 60 -Y- STA 17+39+/- (71.5' RT) (TYPE 1)




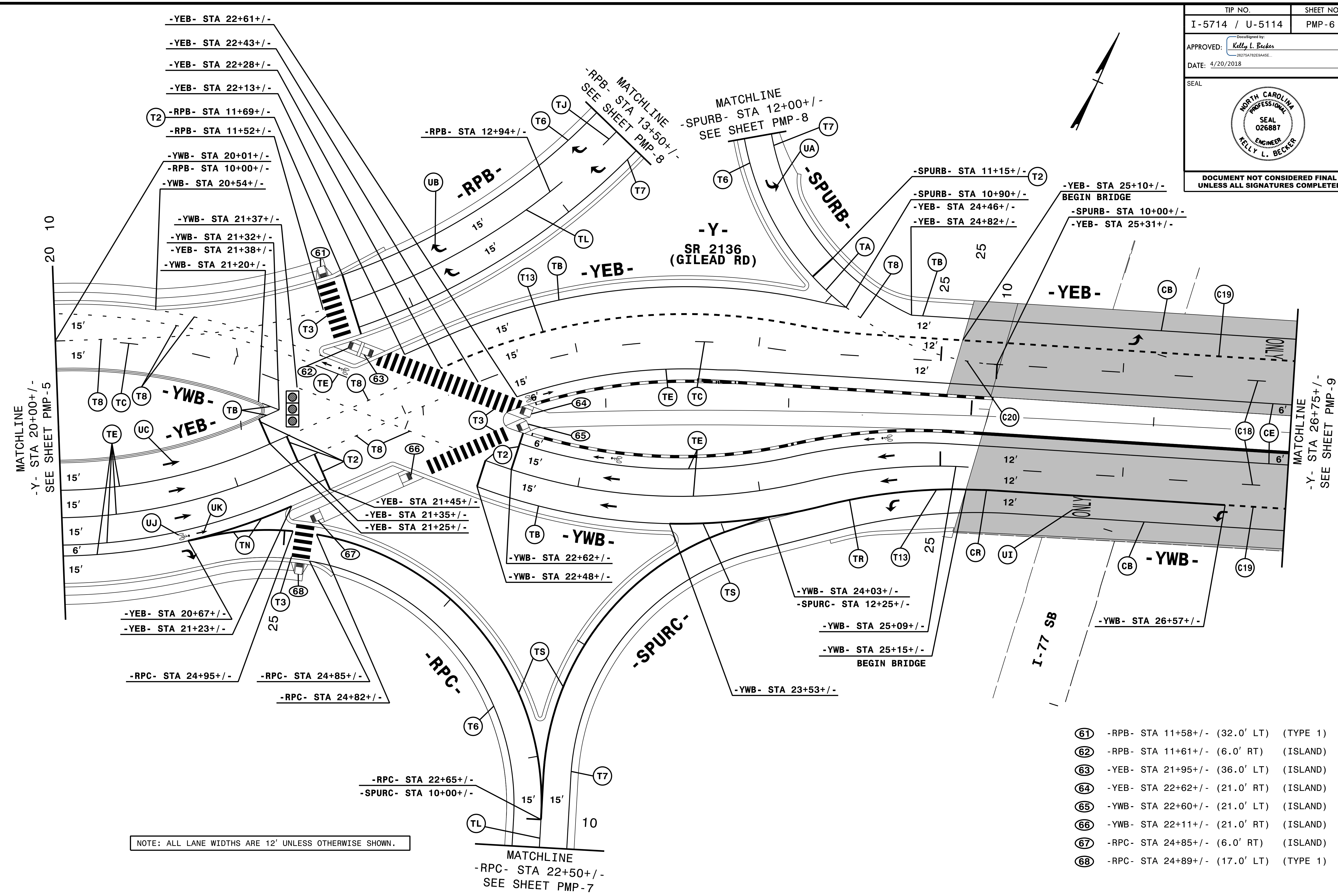
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-6
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
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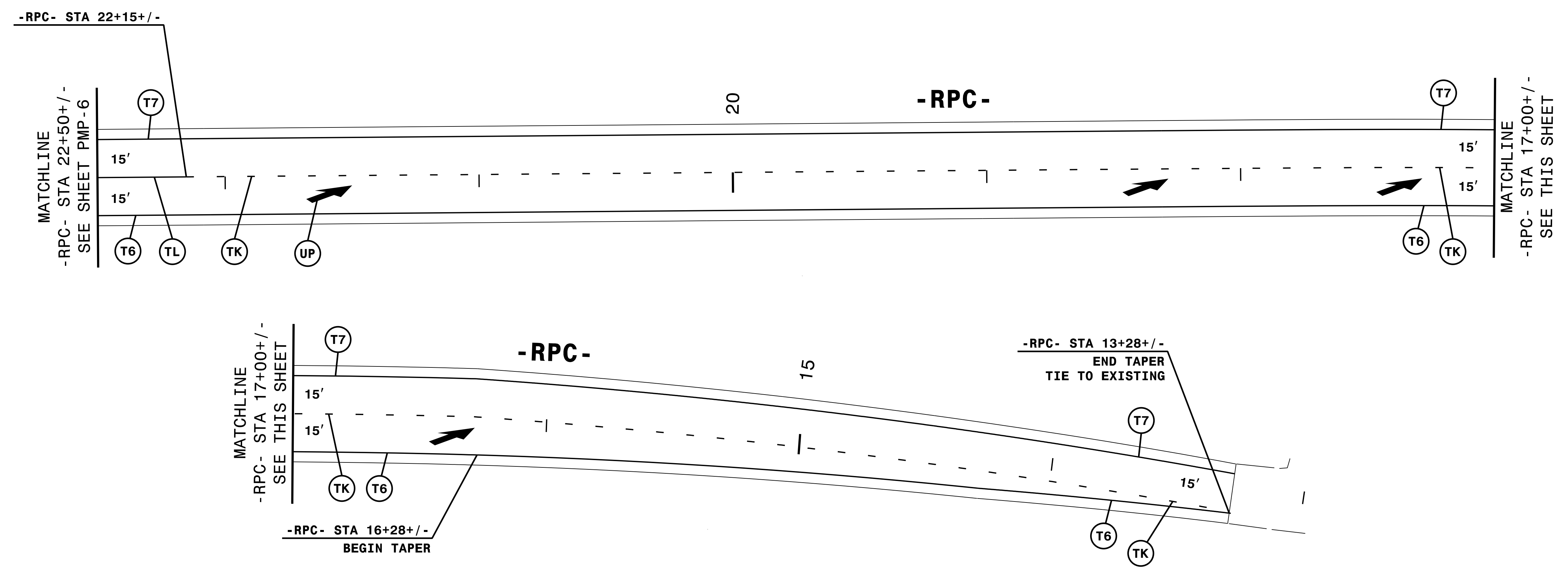
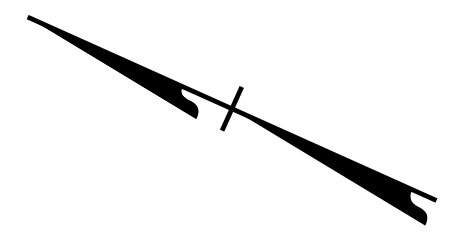
- ⑥1 -RPB- STA 11+58+/- (32.0' LT) (TYPE 1)
- ⑥2 -RPB- STA 11+61+/- (6.0' RT) (ISLAND)
- ⑥3 -YEB- STA 21+95+/- (36.0' LT) (ISLAND)
- ⑥4 -YEB- STA 22+62+/- (21.0' RT) (ISLAND)
- ⑥5 -YWB- STA 22+60+/- (21.0' LT) (ISLAND)
- ⑥6 -YWB- STA 22+11+/- (21.0' RT) (ISLAND)
- ⑥7 -RPC- STA 24+85+/- (6.0' RT) (ISLAND)
- ⑥8 -RPC- STA 24+89+/- (17.0' LT) (TYPE 1)

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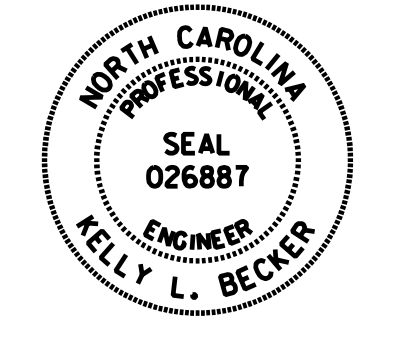
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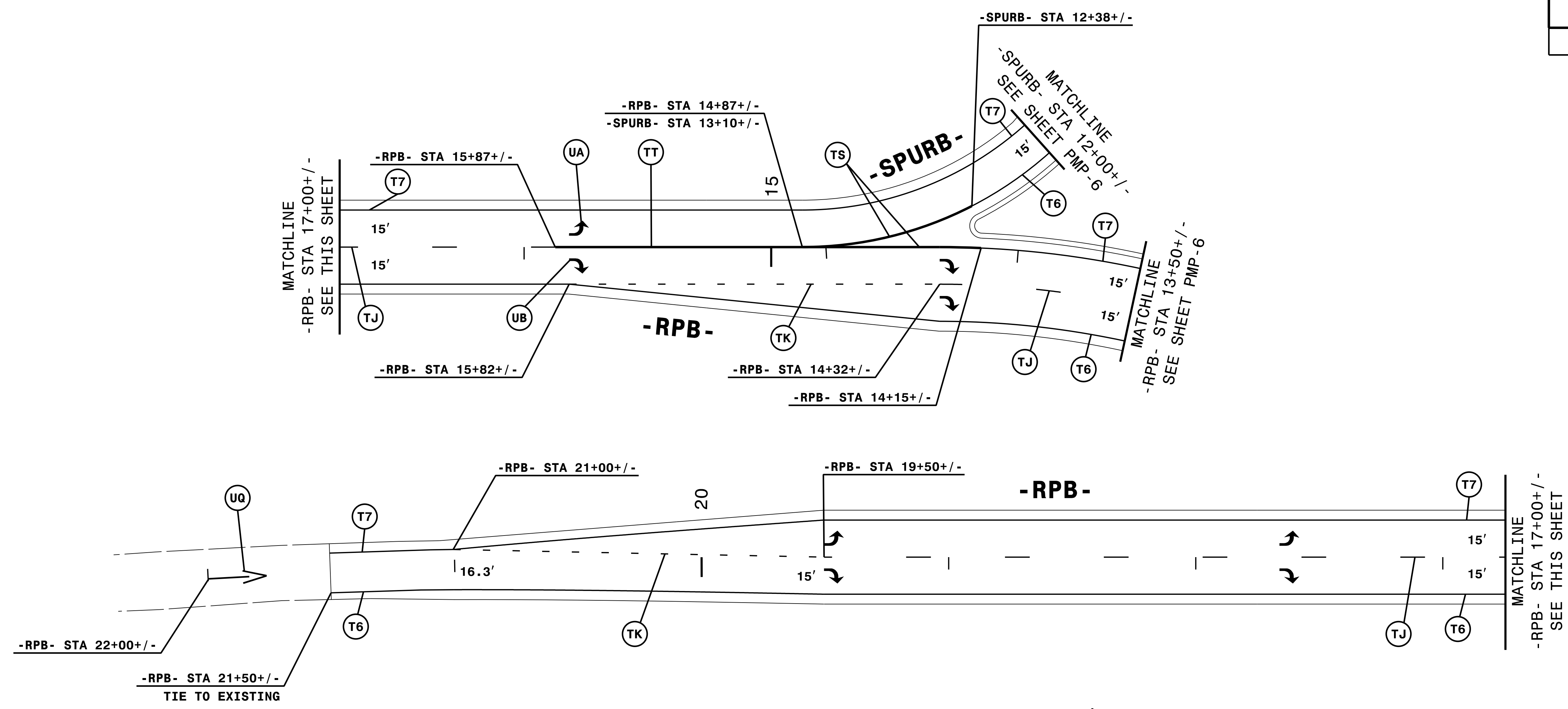


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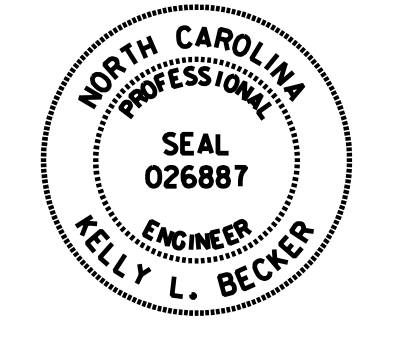
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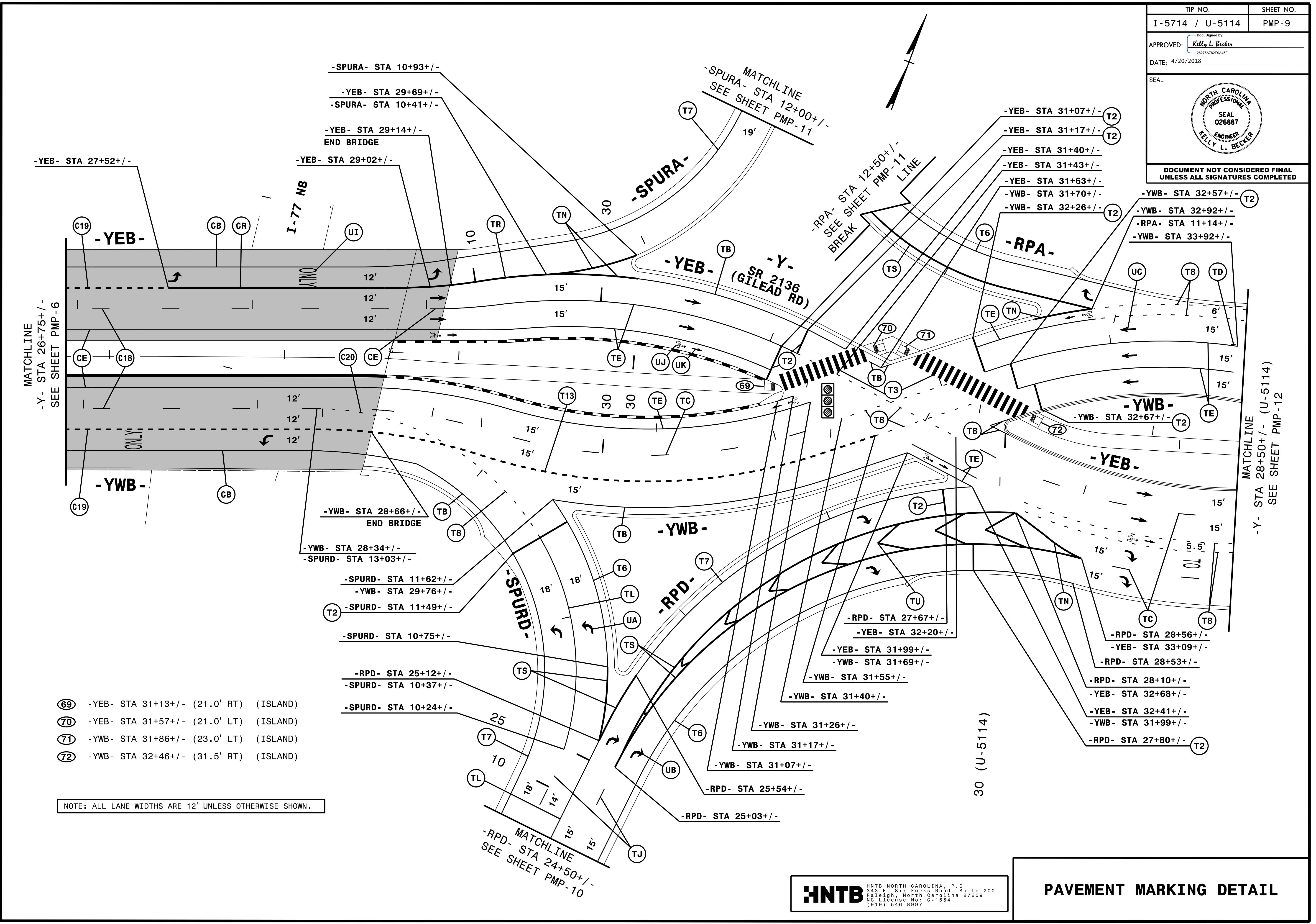


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PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
I-5714 / U-5114	PMP-9
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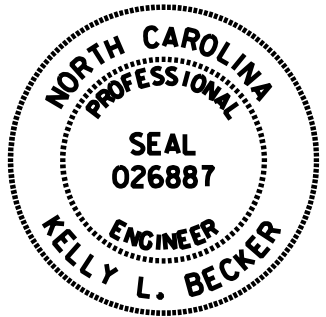
- 69 -YEB- STA 31+13+/- (21.0' RT) (ISLAND)
- 70 -YEB- STA 31+57+/- (21.0' LT) (ISLAND)
- 71 -YWB- STA 31+86+/- (23.0' LT) (ISLAND)
- 72 -YWB- STA 32+46+/- (31.5' RT) (ISLAND)

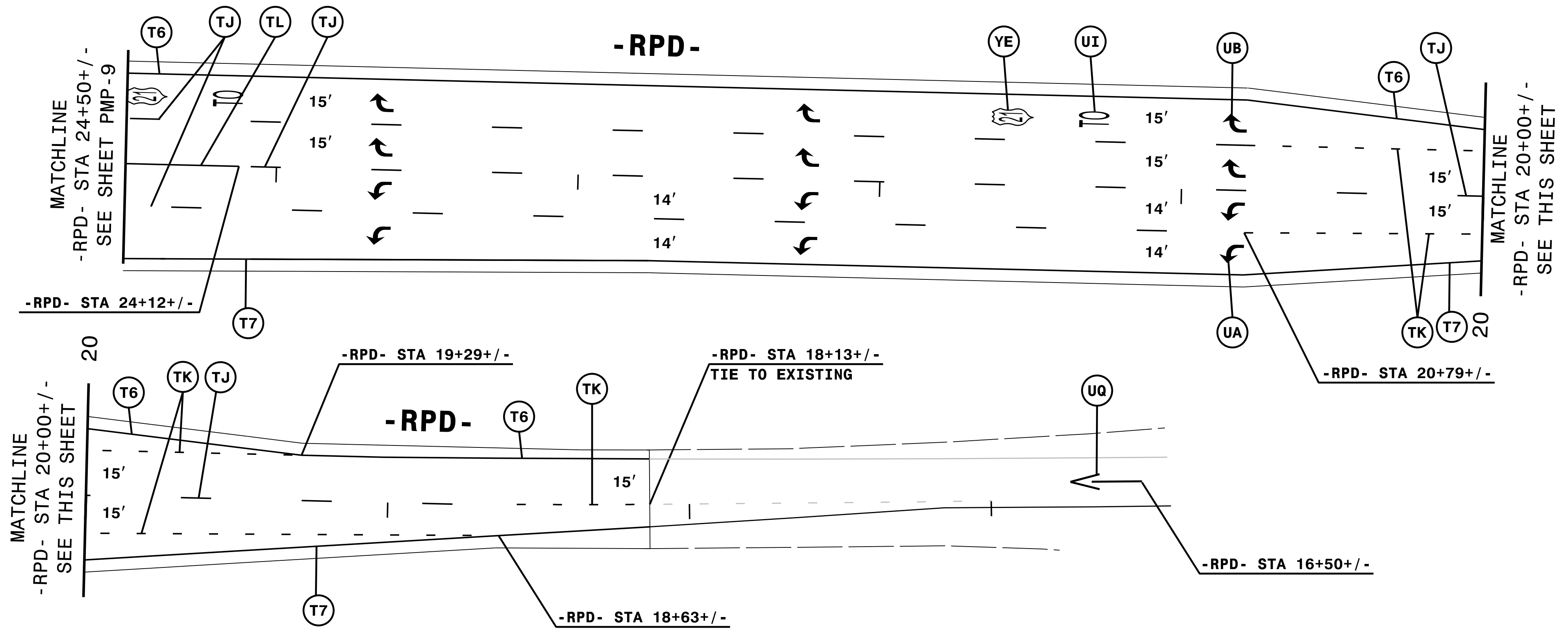
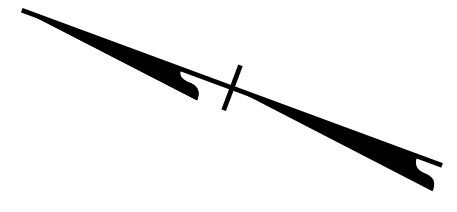
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PAVEMENT MARKING DETAIL


TIP NO. I-5714 / U-5114	SHEET NO. PMP-10
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
DATE: 4/20/2018	
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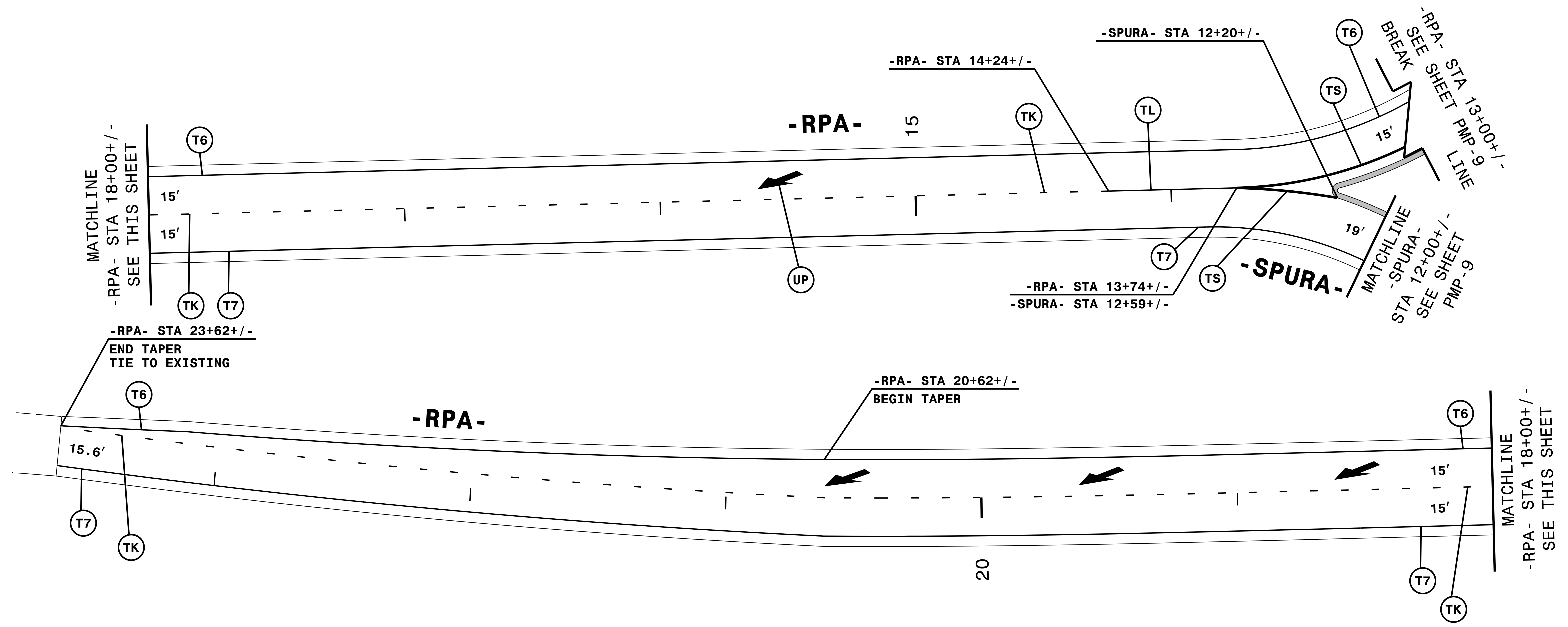


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PAVEMENT MARKING DETAIL

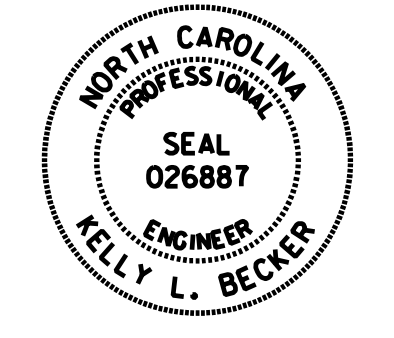
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APPROVED: <i>Kelly L. Becker</i> 20275A782E9A45E	
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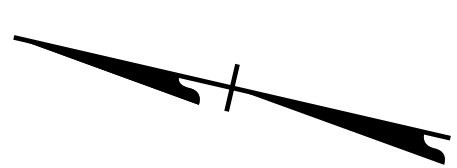
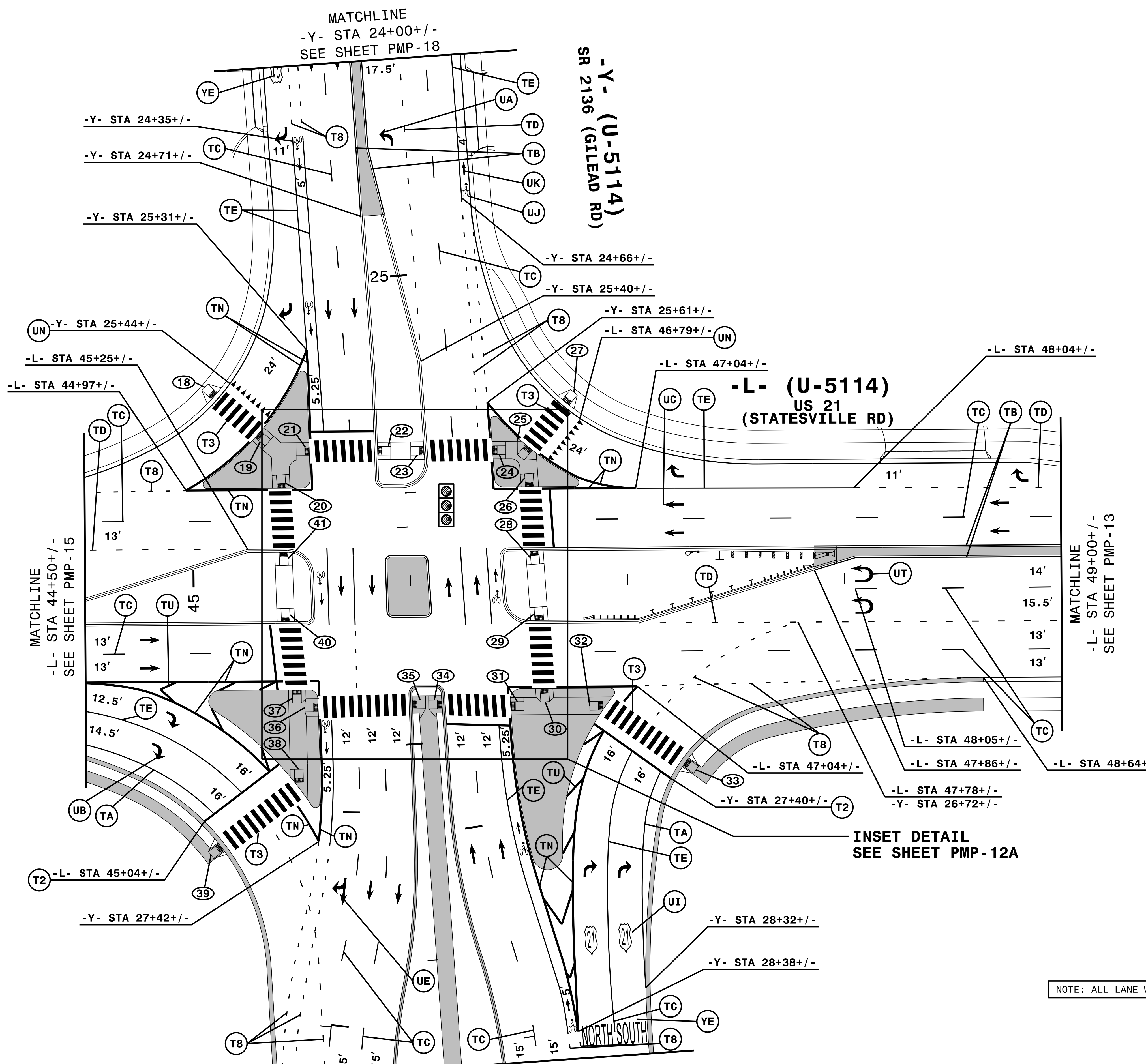


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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-12
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4E	
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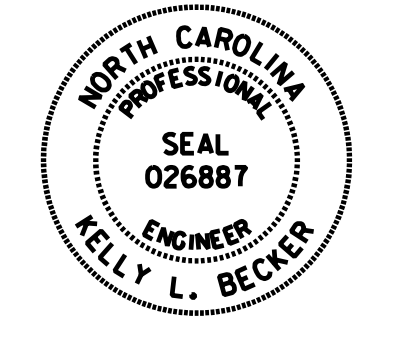
- 18 -L- STA 45+10+/- (88.4' LT) (TYPE 1)
- 19 -L- STA 45+30+/- (70.5' LT) (ISLAND)
- 20 -L- STA 45+40+/- (45.5' LT) (ISLAND)
- 21 -Y- STA 25+78+/- (41.5' RT) (ISLAND)
- 22 -Y- STA 25+80+/- (10.0' RT) (ISLAND)
- 23 -Y- STA 25+81+/- (10.0' LT) (ISLAND)
- 24 -Y- STA 25+83+/- (41.5' LT) (ISLAND)
- 25 -L- STA 46+55+/- (63.7' LT) (ISLAND)
- 26 -L- STA 46+55+/- (45.5' LT) (ISLAND)
- 27 -L- STA 46+72+/- (84.4' LT) (TYPE 1)
- 28 -L- STA 46+57+/- (16.0' LT) (ISLAND)
- 29 -L- STA 46+59+/- (16.0' RT) (ISLAND)
- 30 -L- STA 46+61+/- (47.5' RT) (ISLAND)
- 31 -Y- STA 27+02+/- (41.5' LT) (ISLAND)
- 32 -L- STA 46+88+/- (57.5' RT) (ISLAND)
- 33 -L- STA 47+26+/- (81.8' RT) (TYPE 1)
- 34 -Y- STA 26+98+/- (10.0' LT) (ISLAND)
- 35 -Y- STA 26+98+/- (3.6' RT) (ISLAND)
- 36 -Y- STA 26+96+/- (47.0' RT) (ISLAND)
- 37 -L- STA 45+47+/- (47.0' RT) (ISLAND)
- 38 -L- STA 45+46+/- (90.1' RT) (ISLAND)
- 39 -L- STA 45+12+/- (119.7' RT) (TYPE 1)
- 40 -L- STA 45+44+/- (16.0' RT) (ISLAND)
- 41 -L- STA 45+42+/- (16.0' LT) (ISLAND)

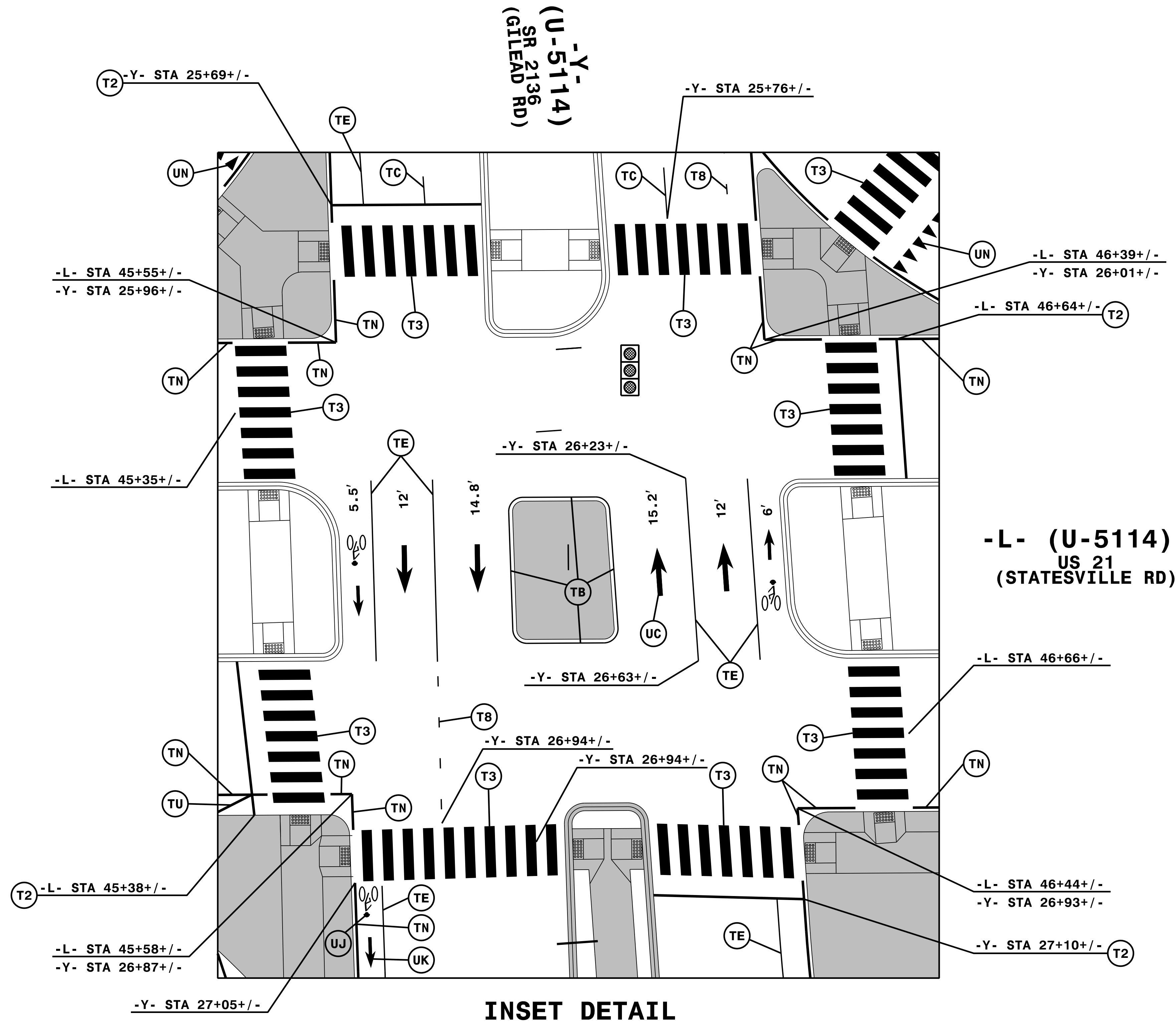
NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

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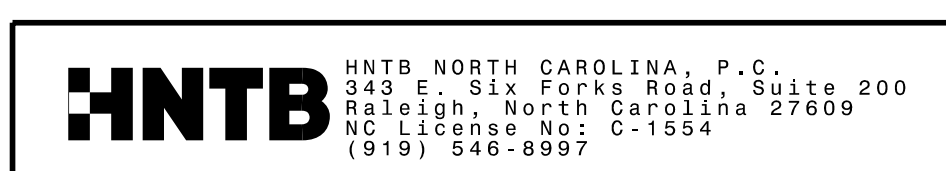
PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-12A
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
DATE: 4/20/2018	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




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

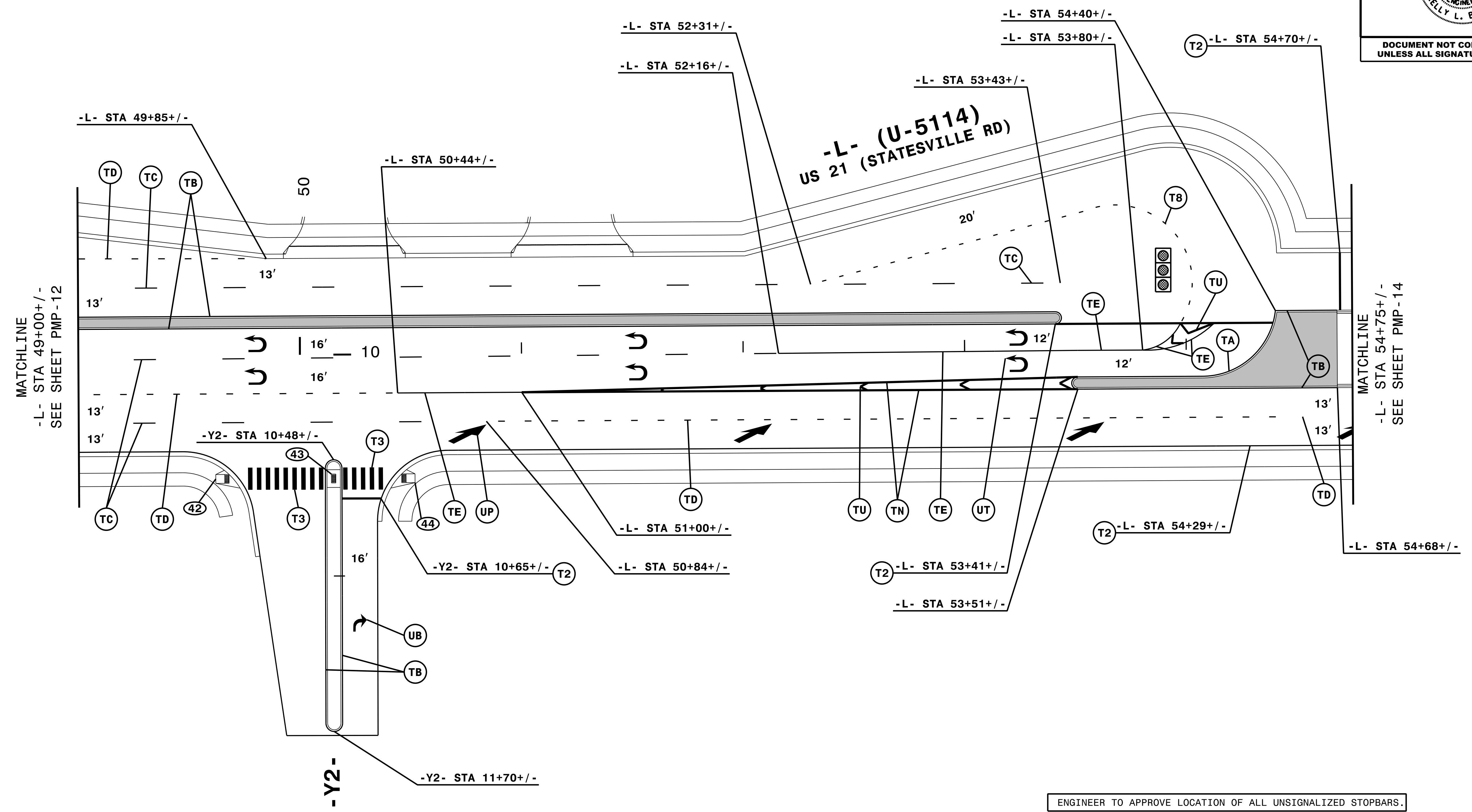
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-13
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
DATE: 4/20/2018	
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- ④② -L- STA 49+68+/- (53.9' RT) (TYPE 1)
- ④③ -L- STA 50+15+/- (54.0' RT) (ISLAND)
- ④④ -L- STA 50+46+/- (54.0' RT) (TYPE 1)




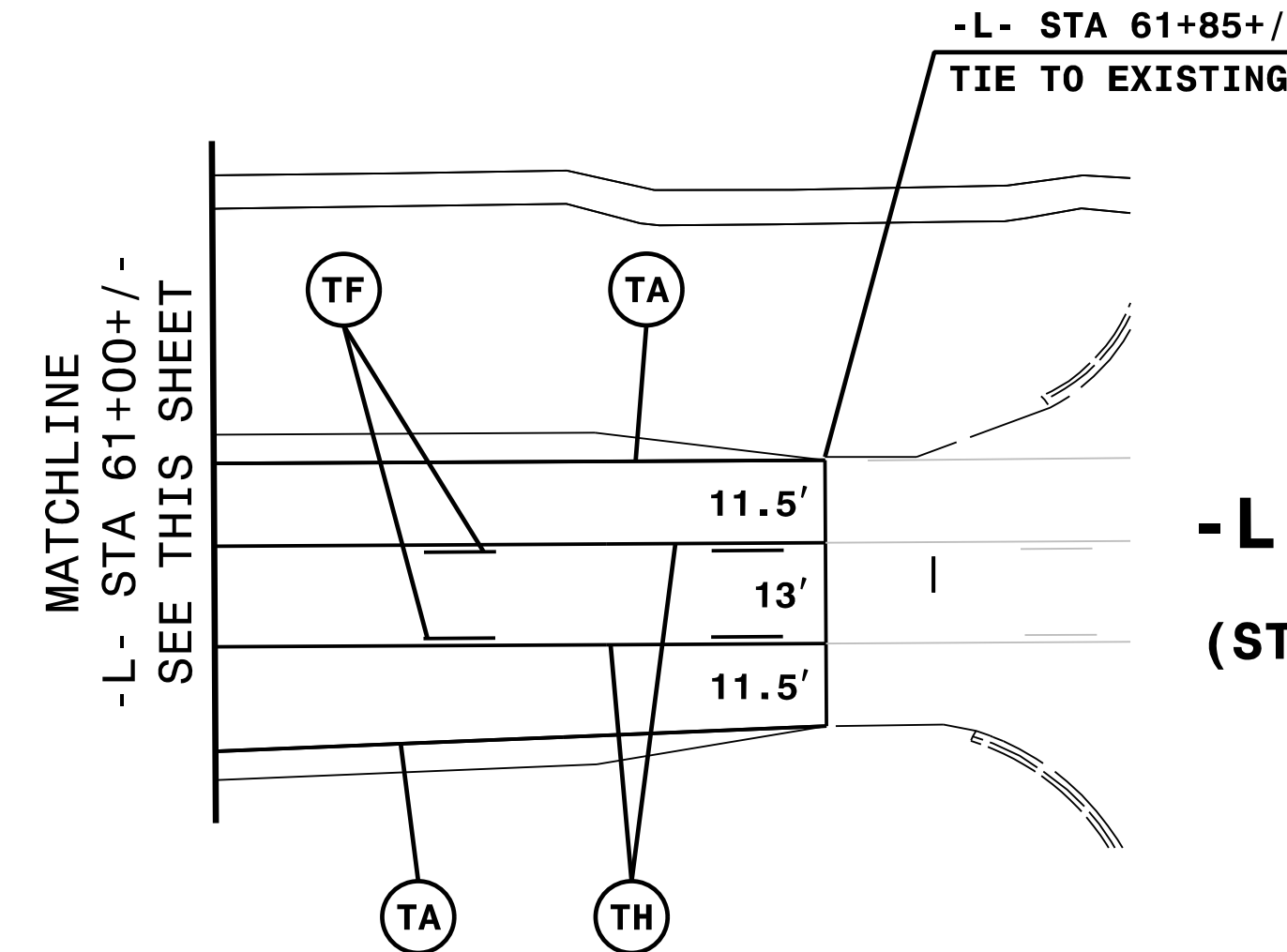
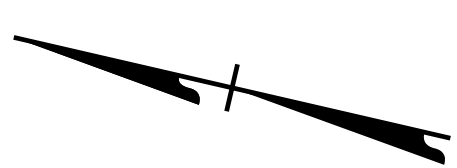
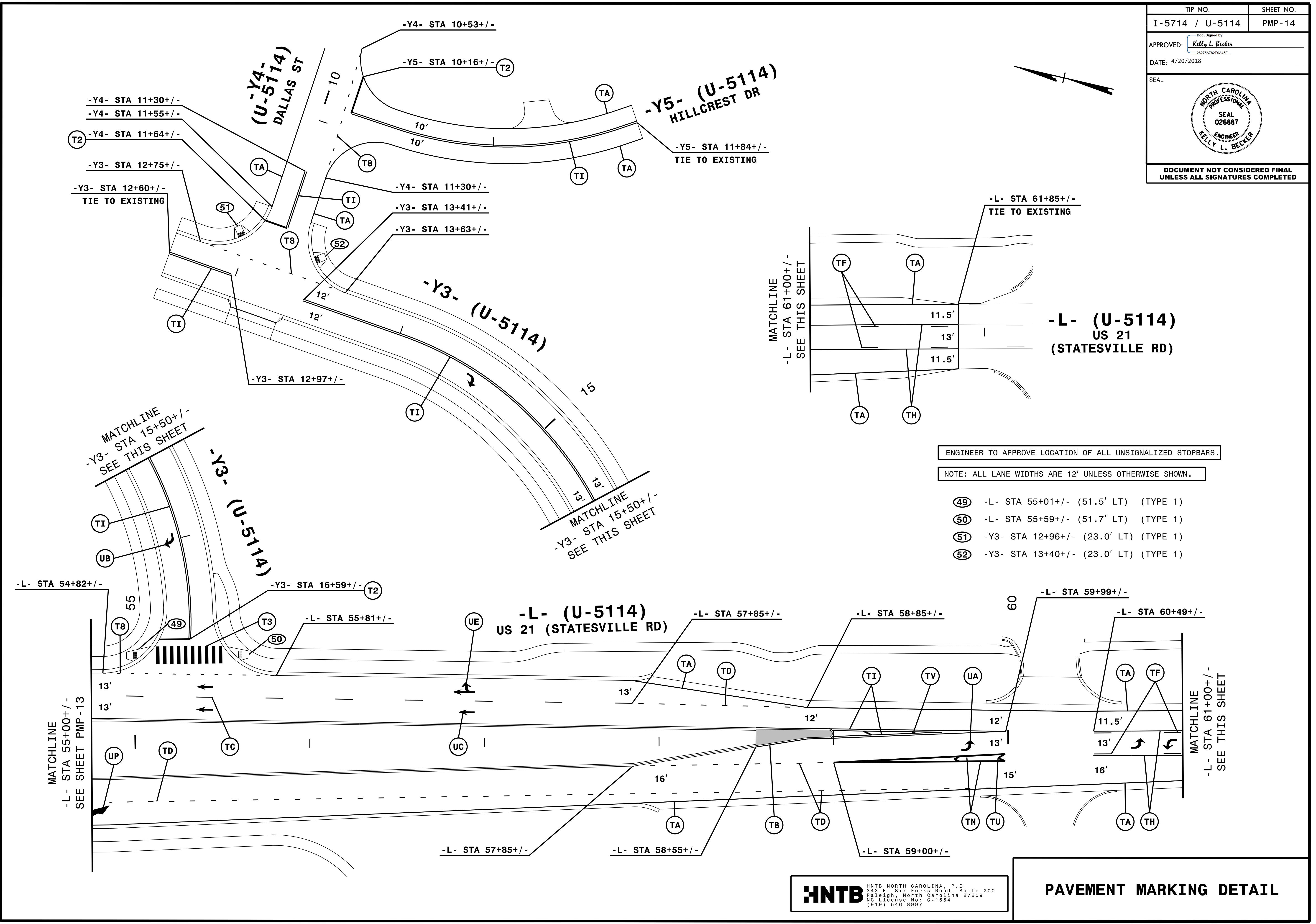
ENGINEER TO APPROVE LOCATION OF ALL UNSIGNALIZED STOPBARS.
NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

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PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
I-5714 / U-5114	PMP-14
APPROVED: <i>Kelly L. Becker</i>	
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 NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

- ④9 -L- STA 55+01+/- (51.5' LT) (TYPE 1)
- ⑤0 -L- STA 55+59+/- (51.7' LT) (TYPE 1)
- ⑤1 -Y3- STA 12+96+/- (23.0' LT) (TYPE 1)
- ⑤2 -Y3- STA 13+40+/- (23.0' LT) (TYPE 1)

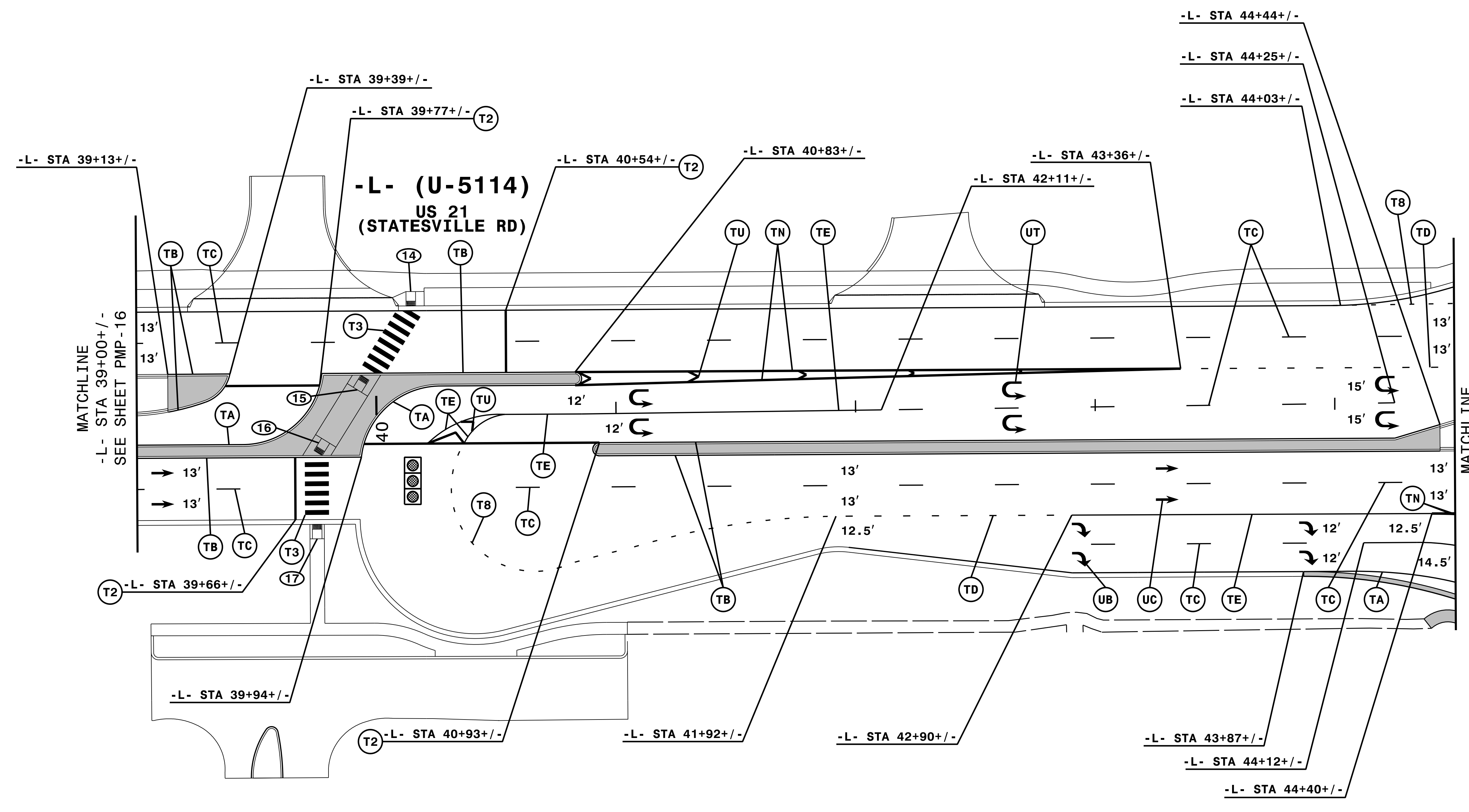
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-15
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4E	
DATE: 4/20/2018	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- ⑭ -L- STA 40+15+/- (45.5' LT) (TYPE 1)
- ⑮ -L- STA 39+94+/- (16.8' LT) (ISLAND)
- ⑯ -L- STA 39+77+/- (16.8' LT) (ISLAND)
- ⑰ -L- STA 39+75+/- (45.5' LT) (TYPE 1)




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

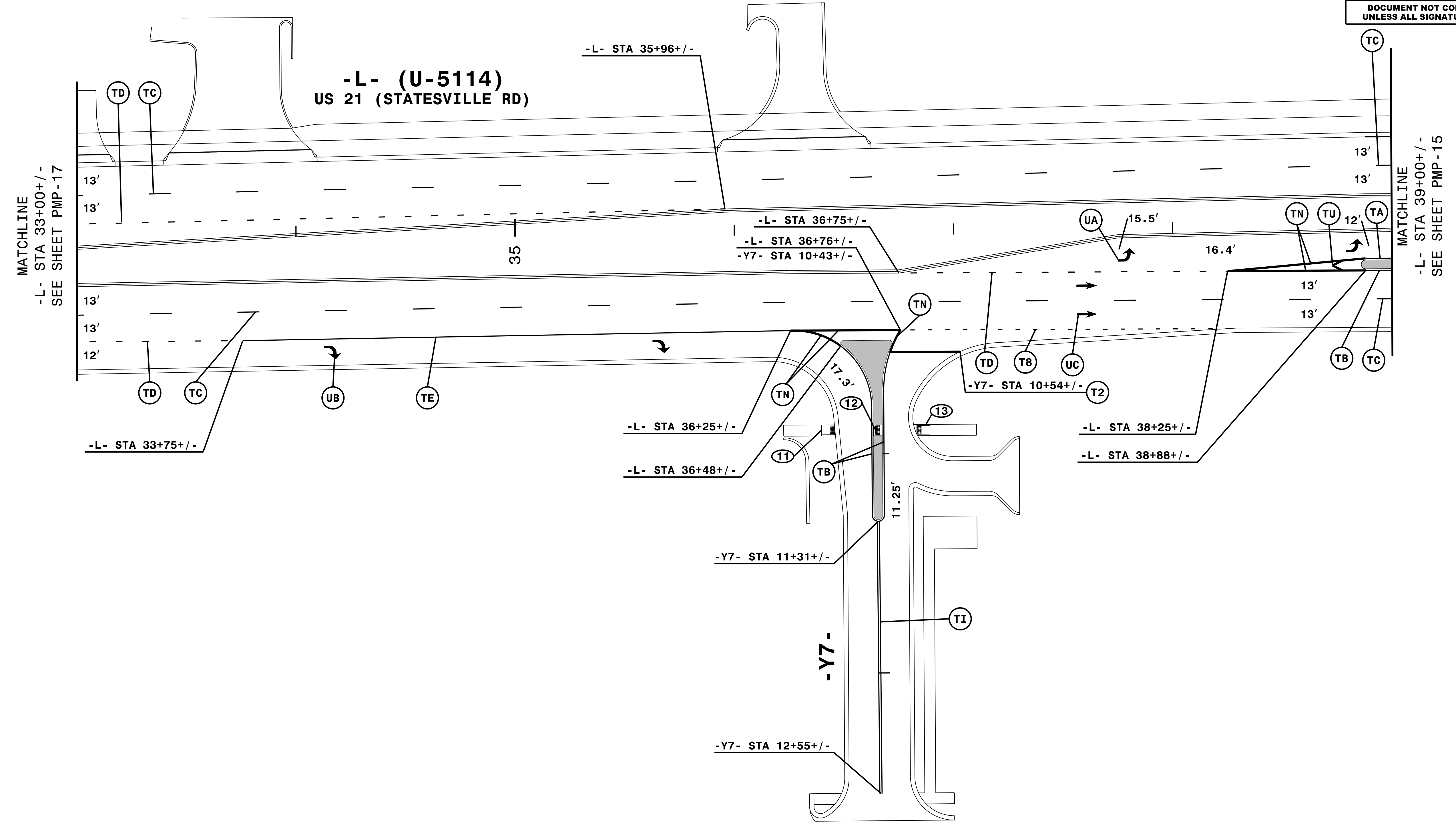
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-16
APPROVED: <i>Kelly L. Becker</i> 2018/04/24	
DATE: 4/24/2018	
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- ① -Y7- STA 10+89+/- (21.6' RT) (TYPE 1)
- ② -Y7- STA 10+89+/- (2.0' RT) (ISLAND)
- ③ -Y7- STA 10+89+/- (14.9' LT) (TYPE 1)

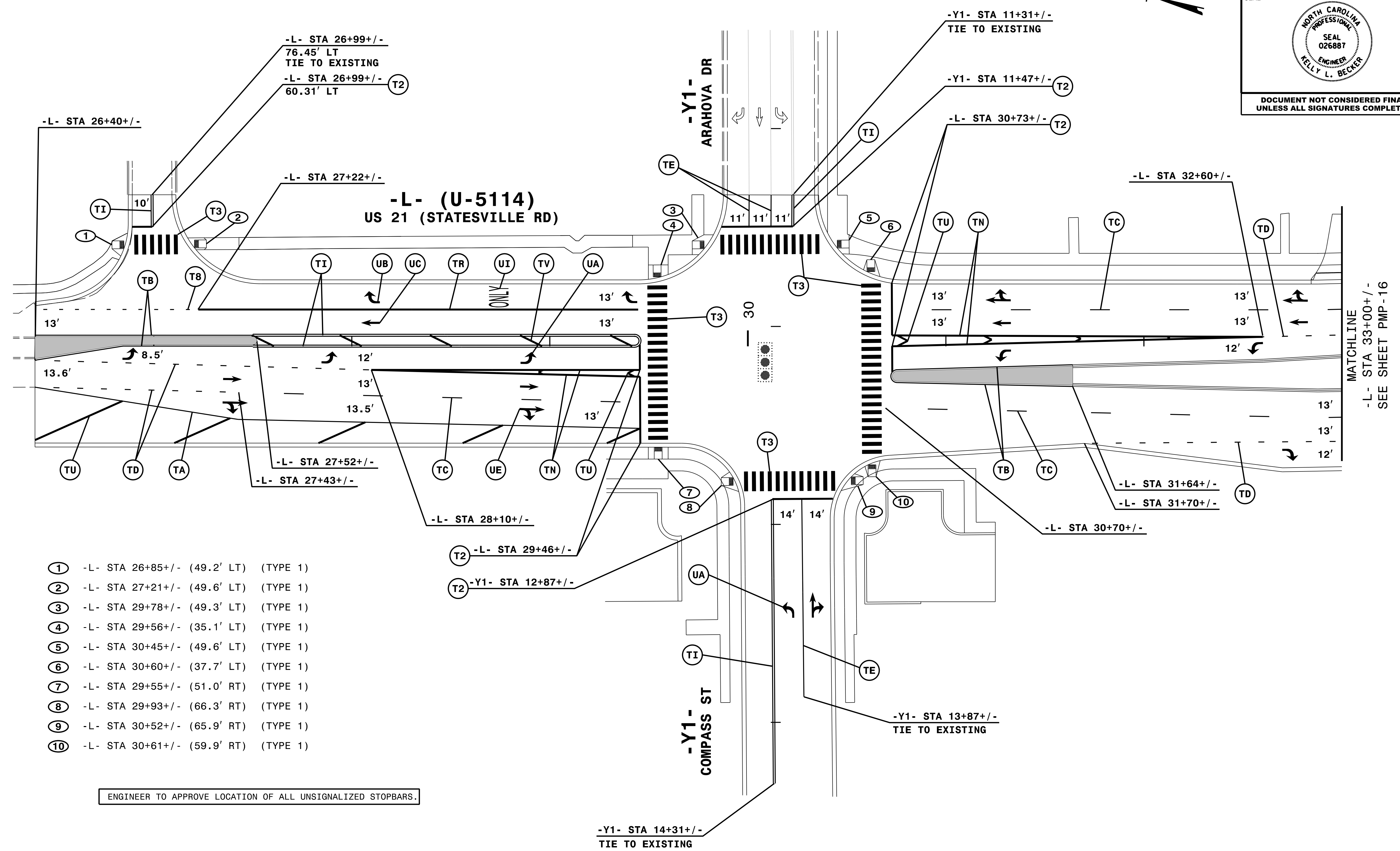


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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-17
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4E	
DATE: 4/20/2018	
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- ① -L- STA 26+85+/- (49.2' LT) (TYPE 1)
- ② -L- STA 27+21+/- (49.6' LT) (TYPE 1)
- ③ -L- STA 29+78+/- (49.3' LT) (TYPE 1)
- ④ -L- STA 29+56+/- (35.1' LT) (TYPE 1)
- ⑤ -L- STA 30+45+/- (49.6' LT) (TYPE 1)
- ⑥ -L- STA 30+60+/- (37.7' LT) (TYPE 1)
- ⑦ -L- STA 29+55+/- (51.0' RT) (TYPE 1)
- ⑧ -L- STA 29+93+/- (66.3' RT) (TYPE 1)
- ⑨ -L- STA 30+52+/- (65.9' RT) (TYPE 1)
- ⑩ -L- STA 30+61+/- (59.9' RT) (TYPE 1)

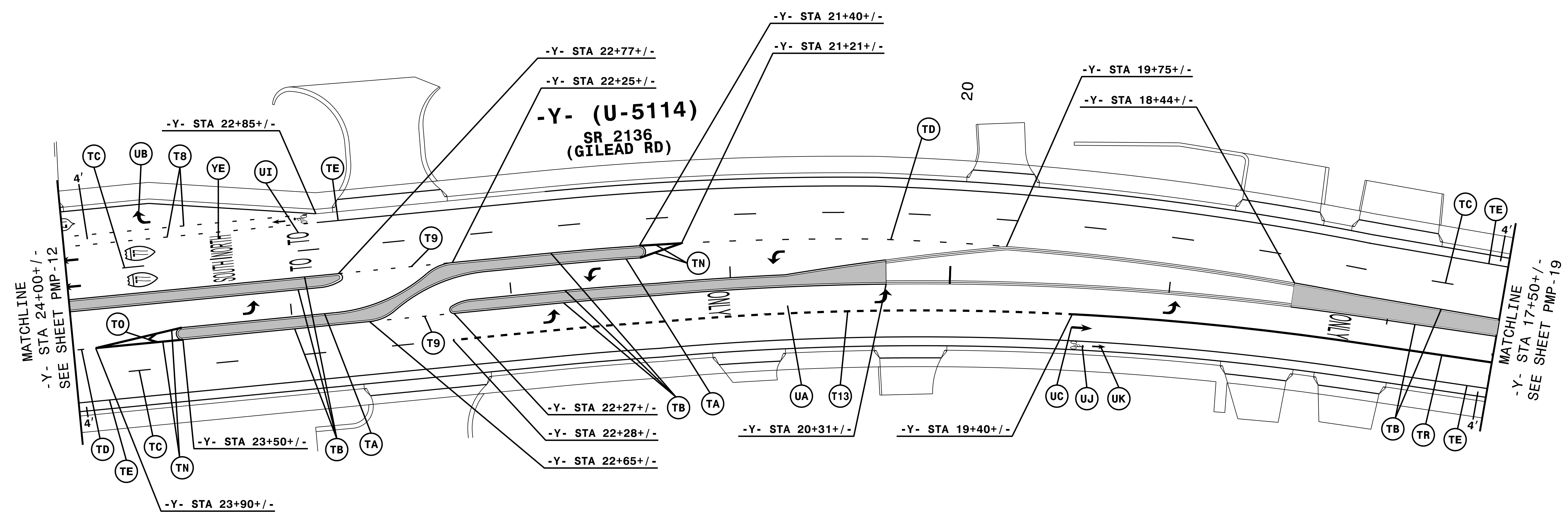
ENGINEER TO APPROVE LOCATION OF ALL UNSIGNALIZED STOPBARS.

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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-18
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DATE: 4/20/2018	
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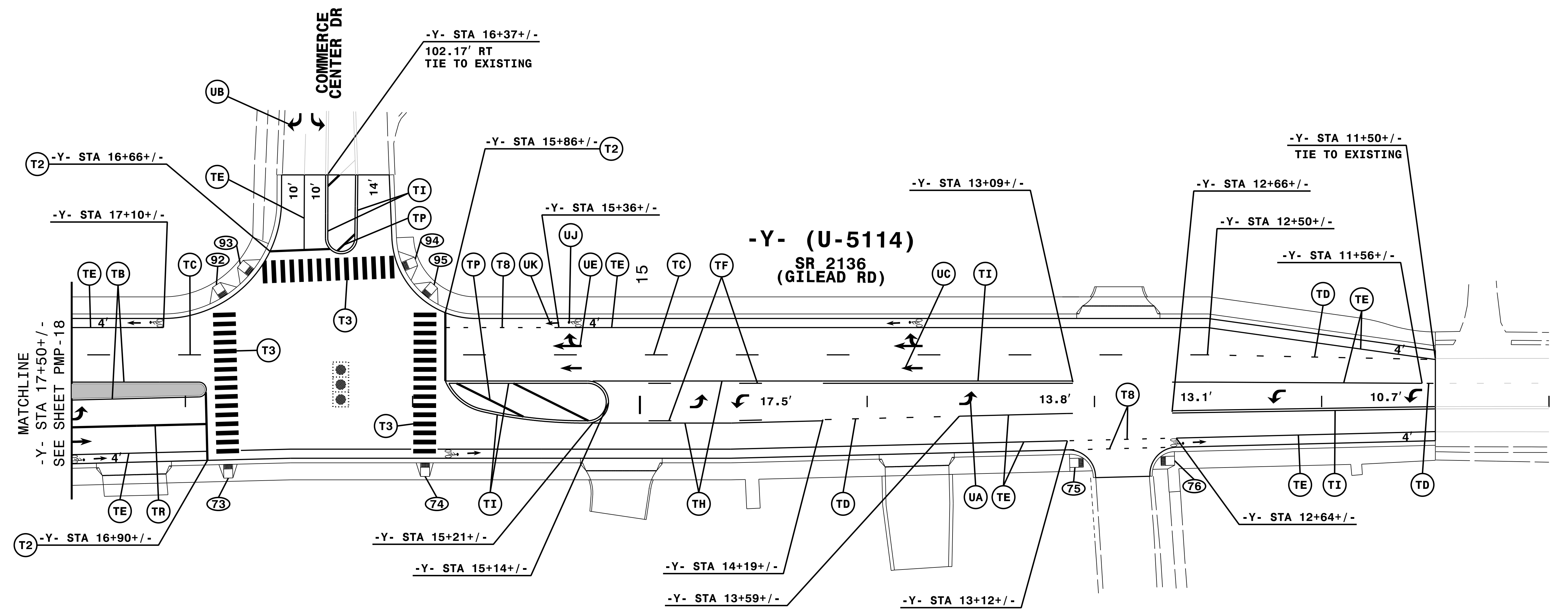
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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-19
APPROVED: <i>Kelly L. Becker</i> 20275A782E9A4SE	
DATE: 4/20/2018	
SEAL 	
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- 73 -Y- STA 16+81+/- (25.7' LT) (STANDARD)
- 74 -Y- STA 15+95+/- (24.5' LT) (STANDARD)
- 75 -Y- STA 13+05+/- (27.4' LT) (TYPE 1)
- 76 -Y- STA 12+71+/- (26.7' LT) (TYPE 1)
- 92 -Y- STA 16+83+/- (48.8' RT) (STANDARD)
- 93 -Y- STA 16+71+/- (59.3' RT) (STANDARD)
- 94 -Y- STA 16+04+/- (61.9' RT) (STANDARD)
- 95 -Y- STA 15+95+/- (49.2' RT) (STANDARD)

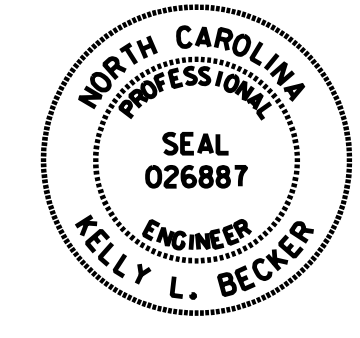


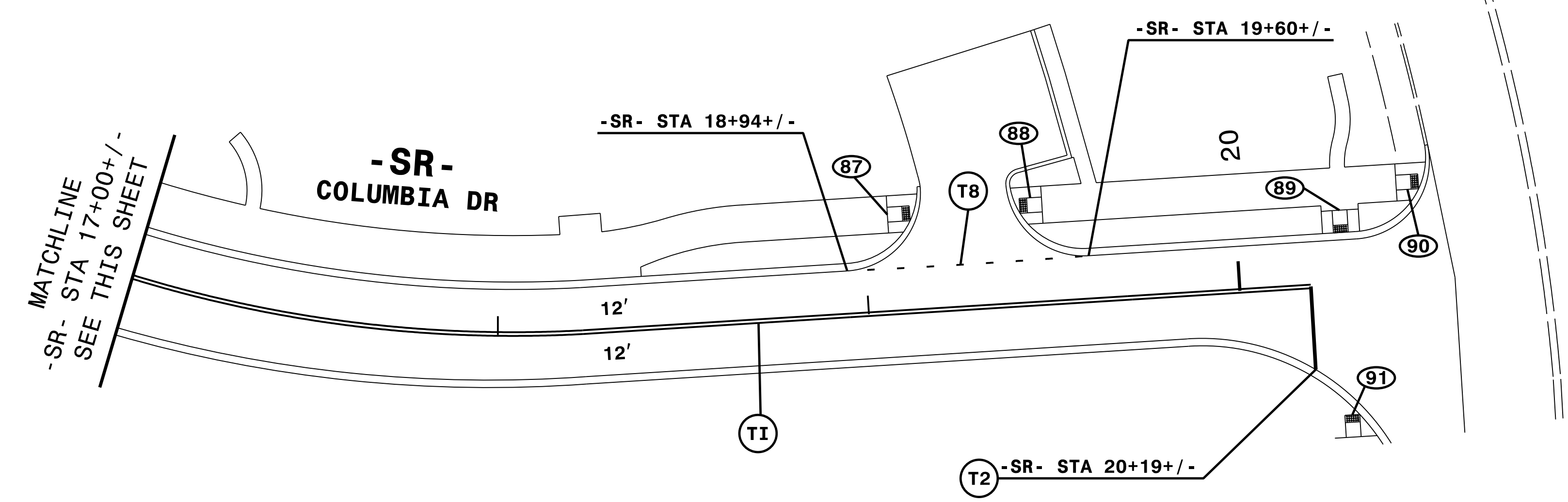
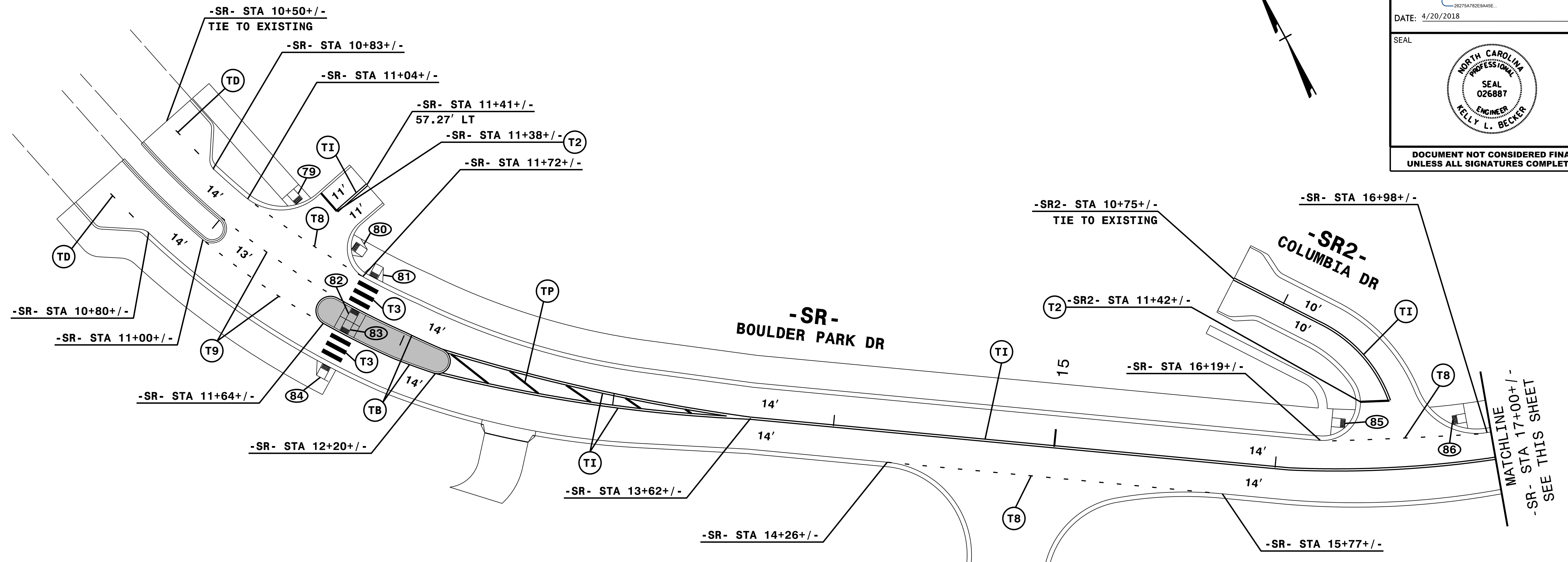
NOTE: ALL LANE WIDTHS ARE 12' UNLESS OTHERWISE SHOWN.

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PAVEMENT MARKING DETAIL

TIP NO. I-5714 / U-5114	SHEET NO. PMP-20
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- 79 -SR- STA 11+22+/- (31.9' LT) (TYPE 1)
- 80 -SR- STA 11+63+/- (28.8' LT) (TYPE 1)
- 81 -SR- STA 11+77+/- (22.5' LT) (TYPE 1)
- 82 -SR- STA 11+77+/- (5.7' LT) (ISLAND)
- 83 -SR- STA 11+77+/- (5.7' RT) (ISLAND)
- 84 -SR- STA 11+77+/- (22.5' RT) (TYPE 1)
- 85 -SR- STA 16+50+/- (19.0' LT) (TYPE 1)
- 86 -SR- STA 16+84+/- (17.5' LT) (TYPE 1)
- 87 -SR- STA 19+13+/- (24.5' LT) (TYPE 1)
- 88 -SR- STA 19+43+/- (24.5' LT) (TYPE 1)
- 89 -SR- STA 20+28+/- (14.0' LT) (TYPE 1)
- 90 -SR- STA 20+50+/- (24.4' LT) (TYPE 1)
- 91 -SR- STA 20+30+/- (35.2' RT) (TYPE 1)

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