

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
HAYWOOD COUNTY**

**LOCATION: RUSS AVE - US 276 FROM US 23/74 (GREAT SMOKEY MOUNTAINS
EXPWY) TO US 23 BUSINESS (NORTH MAIN ST)**

<small>TIP NO.</small> U-5839	<small>SHEET NO.</small> PMP-1
<small>APPROVED:</small> <small>DATE:</small> 11/9/2023	
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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:

<u>STD. NO.</u>	<u>TITLE</u>
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - DIVIDED AND UNDIVIDED ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
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
1205.12	PAVEMENT MARKINGS - BRIDGES
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
1264.01	OBJECT MARKERS
1262.02	PLACEMENT OF OBJECT MARKERS
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:
- | <u>ROAD NAME</u> | <u>MARKING</u> | <u>MARKER</u> |
|----------------------|----------------------|----------------------------|
| US 276 (RUSS AVENUE) | THERMOPLASTIC | NON-CAST IRON SNOWPLOWABLE |
| Y-LINES | THERMOPLASTIC | NON-CAST IRON SNOWPLOWABLE |
| US 276 (BRIDGE) | COLD APPLIED PLASTIC | NON-CAST IRON SNOWPLOWABLE |
- 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 MARKING MATERIAL.
- 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) ALL BICYCLE LANE SYMBOLS SHALL BE HEATED-IN-PLACE THERMOPLASTIC. SYMBOLS SHALL BE PAID FOR USING THE HEATED-IN-PLACE PAY ITEM.
- H) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

**PAVEMENT
MARKING SCHEDULE**

<u>SYMBOL</u>	<u>DESCRIPTION</u>
COLD APPLIED PLASTIC PAVEMENT MARKING (4", TYPE 3)	
C1	WHITE EDGELINE
C2	WHITE SOLID LANE LINE
C3	10 FT. WHITE SKIP
C4	3FT.-9FT./SP WHITE MINISKIP
C11	YELLOW SINGLE CENTER
COLD APPLIED PLASTIC PAVEMENT MARKING (24", TYPE 3)	
C61	WHITE STOPBAR
COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOLS (90 MILS, TYPE 3)	
C70	LEFT TURN ARROW
C72	STRAIGHT ARROW
C74	COMBO. RIGHT/STRAIGHT ARROW
C93	BICYCLE CHAR., HEATED-IN-PLACE
THERMOPLASTIC (4", 90 MILS)	
T1	WHITE EDGELINE
T2	WHITE SOLID LANE LINE
T3	10 FT. WHITE SKIP
T4	3 FT. - 9 FT./SP WHITE MINISKIP
T5	2 FT. - 6 FT./SP WHITE MINISKIP
T11	YELLOW SINGLE CENTER
T12	10 FT. YELLOW SKIP
T13	YELLOW DOUBLE CENTER
T14	2 FT. - 6 FT./SP YELLOW MINISKIP
THERMOPLASTIC (6", 90 MILS)	
T20	WHITE EDGELINE
T30	YELLOW EDGELINE
THERMOPLASTIC (8", 90 MILS)	
T40	WHITE GORELINE
T41	WHITE DIAGONAL
T44	3 FT. - 9 FT./SP WHITE MINISKIP
THERMOPLASTIC (24", 90 MILS)	
T61	WHITE STOPBAR
T62	WHITE CROWWALK LINE
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
T72	STRAIGHT ARROW
T73	COMBO. LEFT/STRAIGHT ARROW
T74	COMBO. RIGHT/STRAIGHT ARROW
T75	COMBO. LEFT/RIGHT ARROW
T76	COMBO. LEFT/RIGHT/STRAIGHT ARROW
T80	WRONG WAY RAMP ARROW
T93	BICYCLE CHAR., HEATED-IN-PLACE (120 MIL)
T94	SHARROW, HEATED-IN-PLACE
T100	ALPHANUMERIC CHAR.
T102	12" YIELD LINE TRIANGLE

INDEX

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
PMP-1-1A	PAVEMENT MARKING PLAN COVER SHEET AND PAVEMENT MARKING SCHEDULE AND DETAIL
PMP-2-7	PAVEMENT MARKING DETAILS

PLANS PREPARED BY: Ramey Kemp Associates

W. JASON HAMILTON, P.E., PTOE PROJECT MANAGER
ZACHARY M. ESPOSITO, P.E., TCDS PROJECT ENGINEER

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U-5839

T.I.P.:

TIP NO.	SHEET NO.
U-5839	PMP-1A
APPROVED: <i>William J. Hamilton</i>	
DATE: 02/22/2023	
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TIP NO.	SHEET NO.
DocuSigned by:	
<i>Matthew V. Springer</i>	
APPROVED: 8/13/2019	
DATE: 02/22/2023	

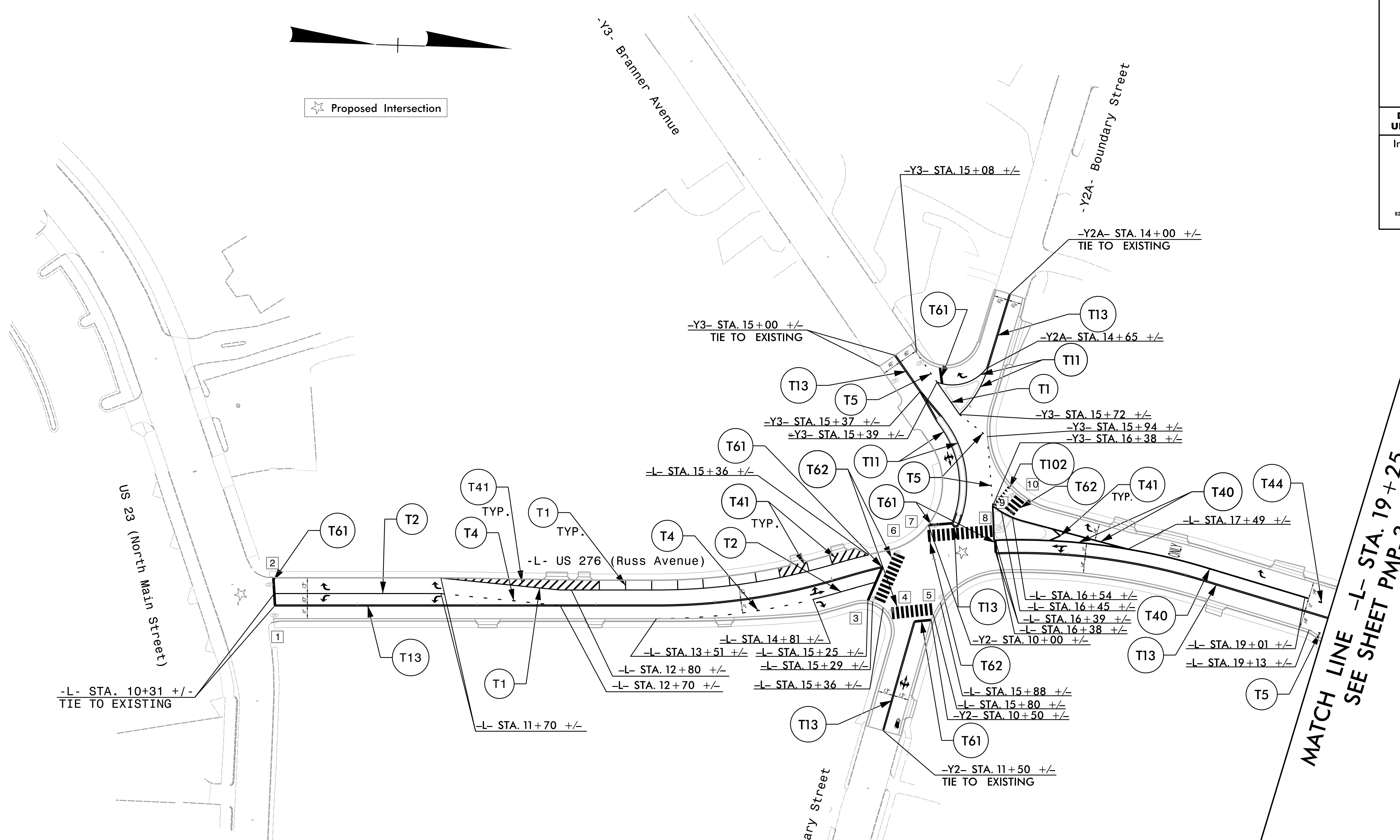
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 8-19 ENGLISH DETAIL DRAWING FOR PAVEMENT MARKINGS INTERSECTIONS	TWO-LANE, TWO-WAY ROADWAY	TWO-LANE, TWO-WAY ROADWAY WITH TWO-WAY LEFT TURN LANE	STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 8-19 ENGLISH DETAIL DRAWING FOR PAVEMENT MARKINGS INTERSECTIONS SHEET 2 OF 2 1205D04
	UNDIVIDED MULTI-LANE ROADWAY	DIVIDED MULTI-LANE ROADWAY WITH TURN BAY	
		DIVIDED MULTI-LANE ROADWAY WITH WIDE MEDIAN CROSSOVER	
	<p>GENERAL NOTES:</p> <ol style="list-style-type: none"> 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER. 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS. 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS. 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE. 		
<p>USE DOUBLE YELLOW CENTER LINE AND ARROW SYMBOLS IN MEDIAN CROSSOVER WHEN WIDTH OF MEDIAN EXCEEDS 30 FT, OTHERWISE THEY ARE NOT REQUIRED.</p>		LEGEND	

**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

PAVEMENT MARKING DETAIL

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TIP NO. U-5839	SHEET NO. PMP-2
APPROVED: <i>William J. Hamilton</i> DocuSigned by: A0560D704648484...	
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MATCH LINE -L- STA. 19+25
 SEE SHEET PMP-3

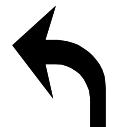
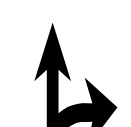
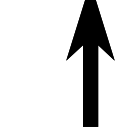
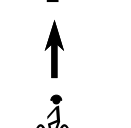

SYMBOL LEGEND			
	(T70) LEFT ARROW		(T76) COMBO. LEFT/RIGHT/STRAIGHT ARROW
	(T71) RIGHT ARROW		(T94) SHARROW
	(T73) COMBO. LEFT/STRAIGHT ARROW	ONLY	(T100) ALPHANUMERIC CHARACTERS

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)			
1	-L- STA. 10+32.10, 13.28' LT (TYPE 2B)	6	-L- STA. 15+62.86, 14.54' LT (TYPE 2B)
2	-L- STA. 10+29.53, 23.78' LT (TYPE 2B)	7	-L- STA. 15+77.86, 21.13' LT (TYPE 2B)
3	-L- STA. 15+32.06, 31.06' RT (TYPE 2B)	8	-L- STA. 16+40.09, 20.01' LT (TYPE 6)
4	-L- STA. 15+38.00, 39.17' RT (TYPE 2B)	9	-L- STA. 16+50.54, 30.22' LT (TYPE 6)
5	-L- STA. 15+85.53, 43.12' RT (TYPE 2B)	10	-L- STA. 16+61.15, 48.62' LT (TYPE 2B)

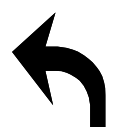
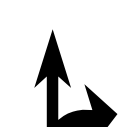
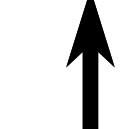
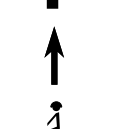
PAVEMENT MARKING DETAILS

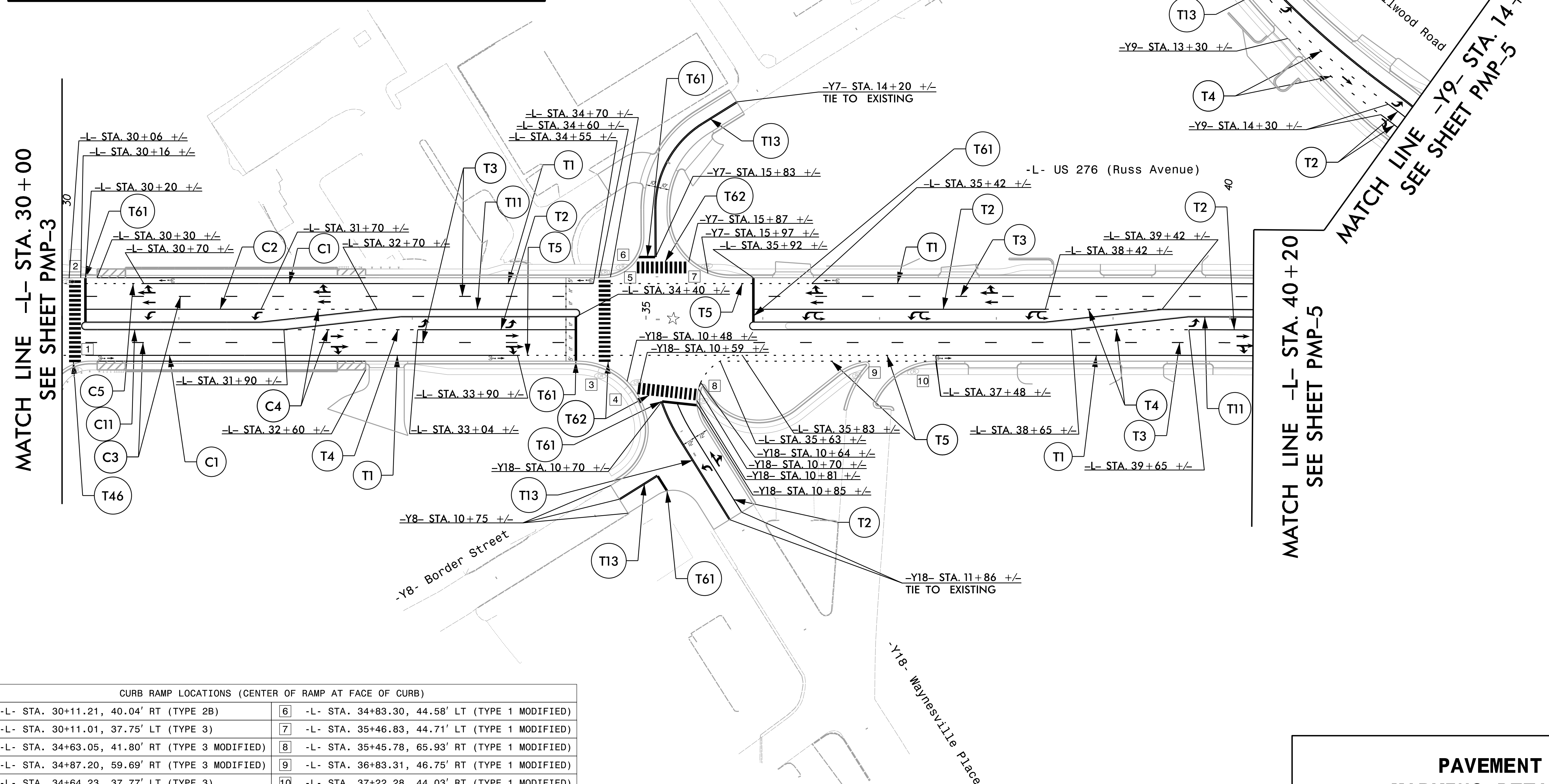
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THERMOPLASTIC SYMBOL LEGEND

	T70 LEFT ARROW		T74 COMBO. RIGHT/ STRAIGHT ARROW
	T72 STRAIGHT ARROW		T93 BICYCLE CHAR. HEATED-IN-PLACE
	T78 COMBO. LEFT/ U-TURN ARROW		

COLD APPLIED PLASTIC SYMBOL LEGEND

	C70 LEFT ARROW		C74 COMBO. RIGHT/ STRAIGHT ARROW
	C72 STRAIGHT ARROW		C93 BICYCLE CHAR. HEATED-IN-PLACE

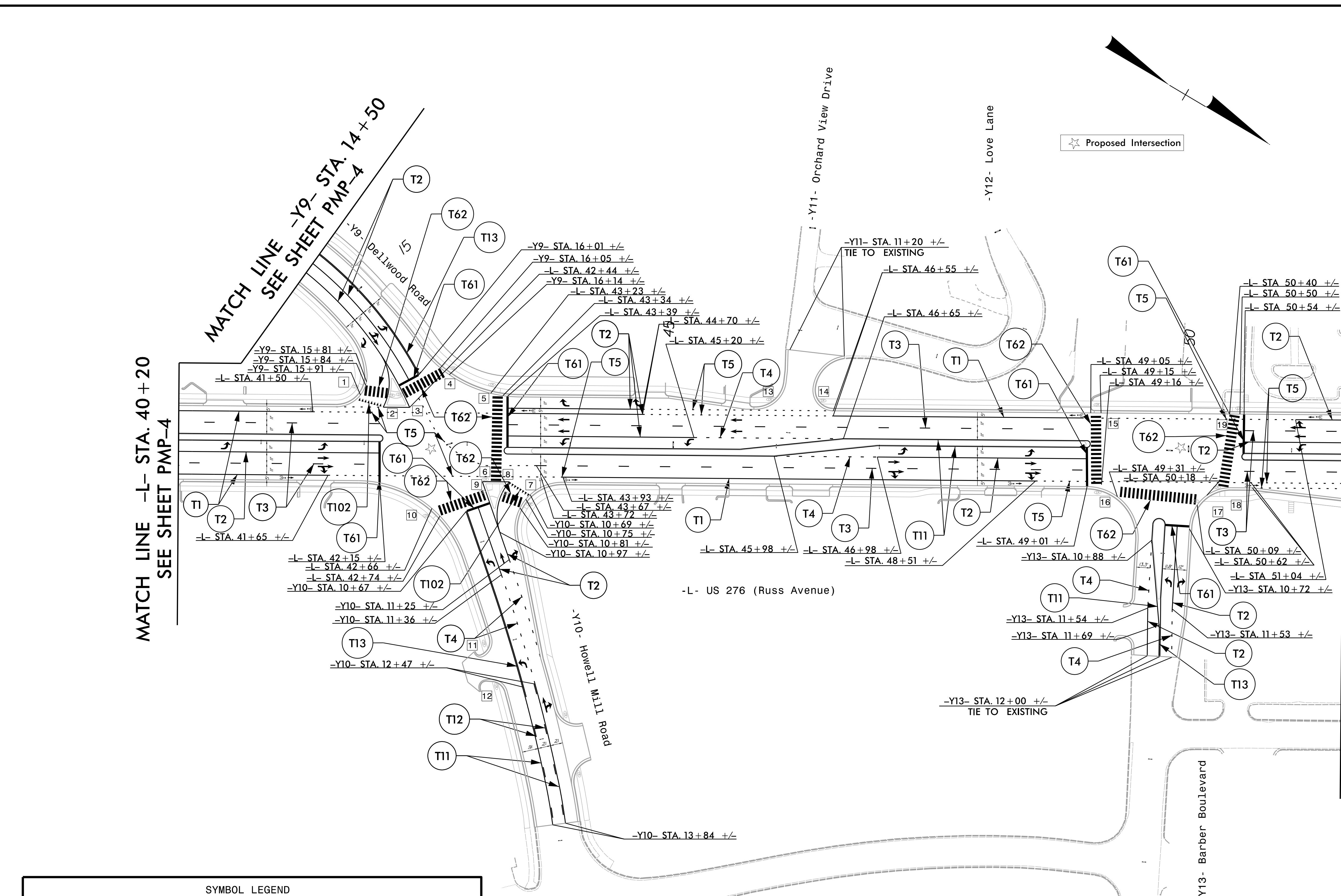


CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)

1 -L- STA. 30+11.21, 40.04' RT (TYPE 2B)	6 -L- STA. 34+83.30, 44.58' LT (TYPE 1 MODIFIED)
2 -L- STA. 30+11.01, 37.75' LT (TYPE 3)	7 -L- STA. 35+46.83, 44.71' LT (TYPE 1 MODIFIED)
3 -L- STA. 34+63.05, 41.80' RT (TYPE 3 MODIFIED)	8 -L- STA. 35+45.78, 65.93' RT (TYPE 1 MODIFIED)
4 -L- STA. 34+87.20, 59.69' RT (TYPE 3 MODIFIED)	9 -L- STA. 36+83.31, 46.75' RT (TYPE 1 MODIFIED)
5 -L- STA. 34+64.23, 37.77' LT (TYPE 3)	10 -L- STA. 37+22.28, 44.03' RT (TYPE 1 MODIFIED)

PAVEMENT MARKING DETAILS

TIP NO. U-5839	SHEET NO. PMP-5
APPROVED: <i>William J. Hamilton</i> DESIGNED BY: <i>William J. Hamilton</i>	
DATE: 02/22/2023	
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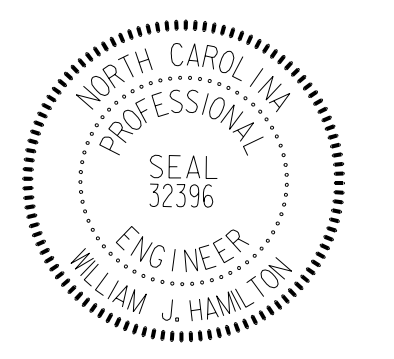

SYMBOL LEGEND

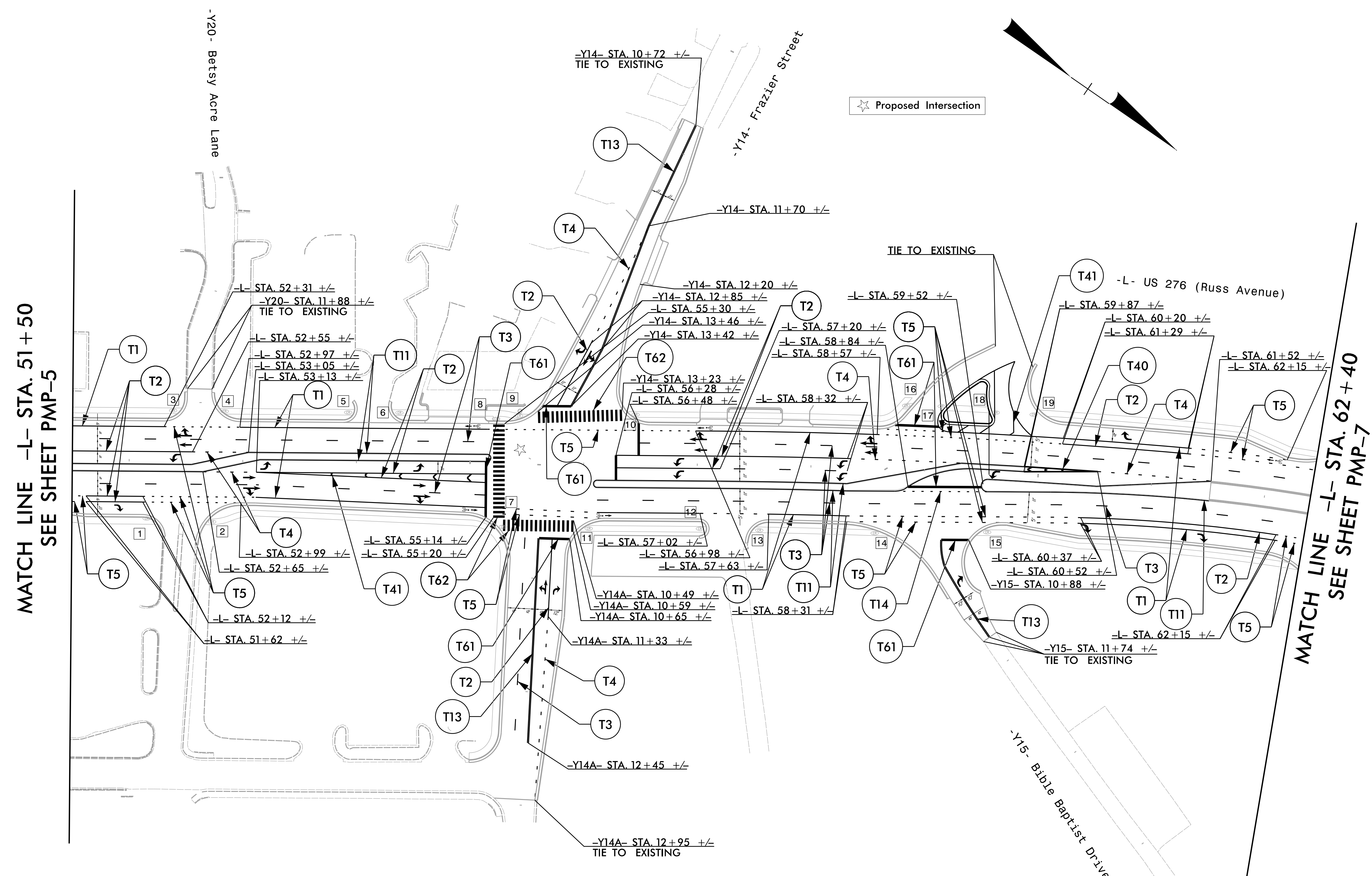
	(T70) LEFT ARROW		(T73) COMBO. LEFT/STRAIGHT ARROW
	(T71) RIGHT ARROW		(T74) COMBO. RIGHT/STRAIGHT ARROW
	(T72) STRAIGHT ARROW		(T93) BICYCLE CHAR. HEATED-IN-PLACE

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)

1 -L- STA. 41+97.54, 53.41' LT (TYPE 3 MODIFIED)	11 -Y10- STA. 12+03.28, 29.11' RT (TYPE 1 MODIFIED)
2 -L- STA. 42+24.88, 48.48' LT (TYPE 6)	12 -Y10- STA. 12+33.49, 28.99' RT (TYPE 1 MODIFIED)
3 -L- STA. 42+35.29, 49.08' LT (TYPE 6)	13 -L- STA. 45+97.55, 45.50' LT (TYPE 1 MODIFIED)
4 -L- STA. 42+78.08, 73.19' LT (TYPE 3 MODIFIED)	14 -L- STA. 46+40.83, 44.72' LT (TYPE 1 MODIFIED)
5 -L- STA. 43+28.63, 50.79' LT (TYPE 3 MODIFIED)	15 -L- STA. 49+09.98, 37.75' LT (TYPE 3)
6 -L- STA. 43+28.39, 37.75' RT (TYPE 6)	16 -L- STA. 49+14.44, 39.43' RT (TYPE 2A MODIFIED)
7 -L- STA. 43+56.47, 57.08' RT (TYPE 3 MODIFIED)	17 -L- STA. 50+13.70, 49.89' RT (TYPE 1 MODIFIED)
8 -L- STA. 43+31.18, 48.94' RT (TYPE 6)	18 -L- STA. 50+45.50, 37.75' RT (TYPE 3)
9 -L- STA. 43+21.31, 47.31' RT (TYPE 6)	19 -L- STA. 50+44.59, 37.75' LT (TYPE 3)
10 -L- STA. 42+68.49, 66.69' RT (TYPE 3 MODIFIED)	

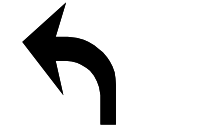

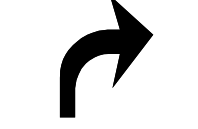
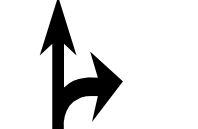
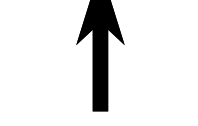
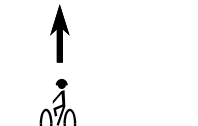
PAVEMENT MARKING DETAILS

TIP NO. U-5839	SHEET NO. PMP-6
APPROVED: <i>William J. Hamilton</i> A15560704648484	
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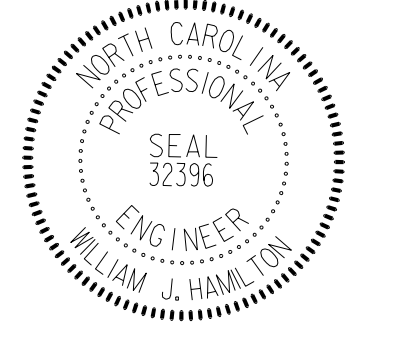
MATCH LINE -L- STA. 51+50
SEE SHEET PMP-5

MATCH LINE -L- STA. 62+40
SEE SHEET PMP-7


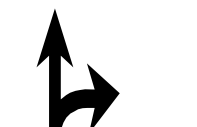


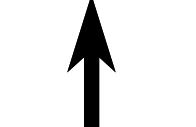
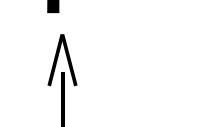
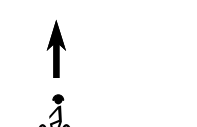
SYMBOL LEGEND					
	(T70)	LEFT ARROW		(T73)	COMBO. LEFT/ STRAIGHT ARROW
	(T71)	RIGHT ARROW		(T74)	COMBO. RIGHT/ STRAIGHT ARROW
	(T72)	STRAIGHT ARROW		(T93)	BICYCLE CHAR. HEATED-IN-PLACE

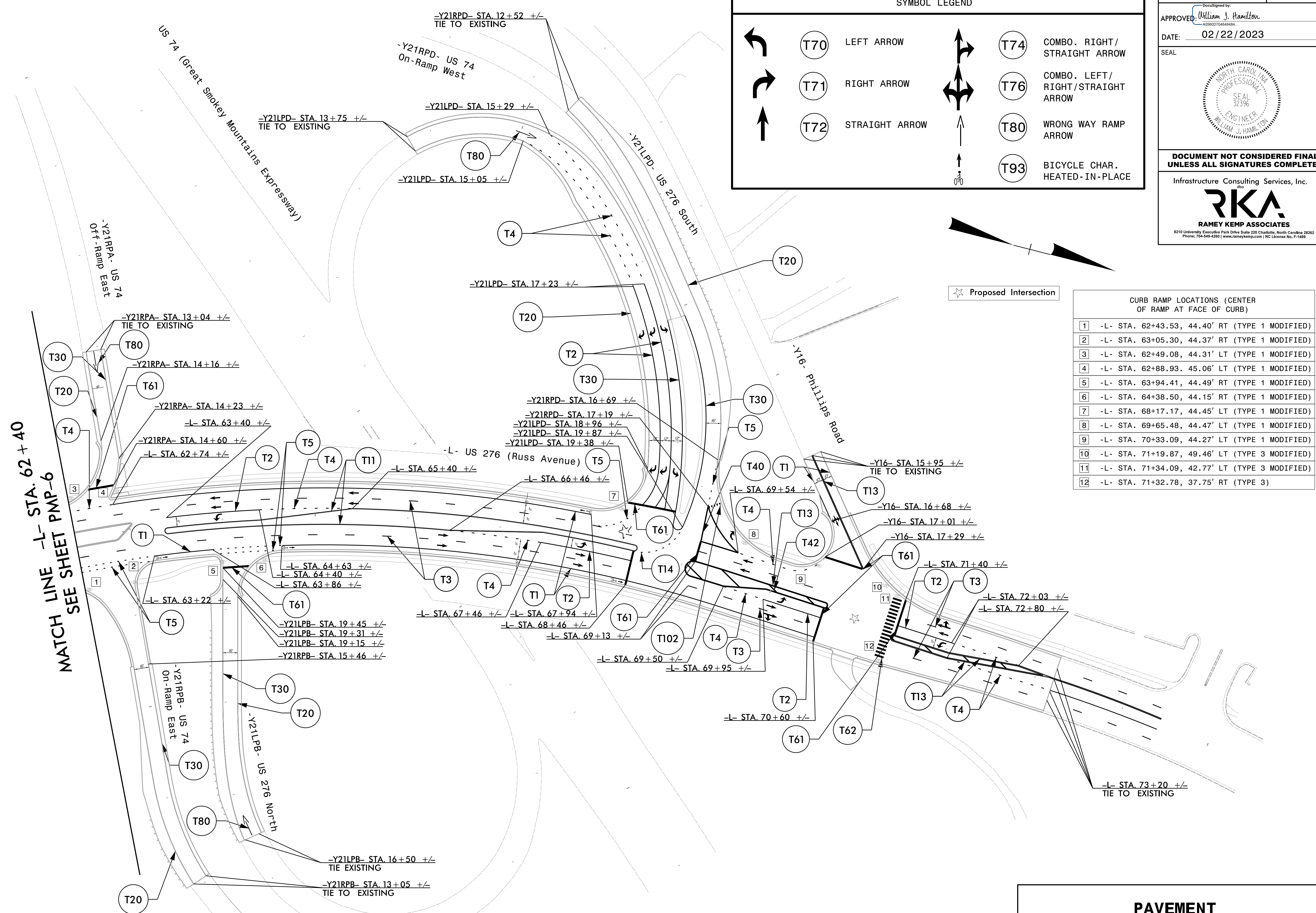
CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)			
1	-L- STA. 52+21.51, 51.31' RT (TYPE 1 MODIFIED)	10	-L- STA. 56+39.95, 44.71' LT (TYPE 1 MODIFIED)
2	-L- STA. 52+68.81, 52.22' RT (TYPE 1 MODIFIED)	11	-L- STA. 55+95.58, 55.39' RT (TYPE 1 MODIFIED)
3	-L- STA. 52+44.33, 44.74' LT (TYPE 1 MODIFIED)	12	-L- STA. 57+09.99, 56.14' RT (TYPE 1 MODIFIED)
4	-L- STA. 52+81.91, 44.36' LT (TYPE 1 MODIFIED)	13	-L- STA. 57+50.47, 55.61' RT (TYPE 1 MODIFIED)
5	-L- STA. 53+97.37, 44.81' LT (TYPE 1 MODIFIED)	14	-L- STA. 58+58.30, 55.35' RT (TYPE 1 MODIFIED)
6	-L- STA. 54+31.41, 44.84' LT (TYPE 1 MODIFIED)	15	-L- STA. 59+48.25, 51.26' RT (TYPE 1 MODIFIED)
7	-L- STA. 55+17.69, 58.19' RT (TYPE 2A)	16	-L- STA. 58+75.87, 56.60' LT (TYPE 1 MODIFIED)
8	-L- STA. 55+34.64, 37.91' LT (TYPE 1 MODIFIED)	17	-L- STA. 59+21.49, 56.99' LT (TYPE 6)
9	-L- STA. 55+52.55, 44.31' LT (TYPE 3)	18	-L- STA. 58+75.87, 56.89' LT (TYPE 6)
		19	-L- STA. 59+99.77, 56.99' LT (TYPE 1 MODIFIED)

**PAVEMENT
MARKING DETAILS**

TIP NO. U-5839	SHEET NO. PMP-7
APPROVED: <i>William J. Hamilton</i> A15660704648484	
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SYMBOL LEGEND

	T70 LEFT ARROW		T74 COMBO. RIGHT/STRAIGHT ARROW
	T71 RIGHT ARROW		T76 COMBO. LEFT/RIGHT/STRAIGHT ARROW
	T72 STRAIGHT ARROW		T80 WRONG WAY RAMP ARROW
			T93 BICYCLE CHAR. HEATED-IN-PLACE



☆ Proposed Intersection

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)

1	-L- STA. 62+43.53, 44.40' RT (TYPE 1 MODIFIED)
2	-L- STA. 63+05.30, 44.37' RT (TYPE 1 MODIFIED)
3	-L- STA. 62+49.08, 44.31' LT (TYPE 1 MODIFIED)
4	-L- STA. 62+88.93, 45.06' LT (TYPE 1 MODIFIED)
5	-L- STA. 63+94.41, 44.49' RT (TYPE 1 MODIFIED)
6	-L- STA. 64+38.50, 44.15' RT (TYPE 1 MODIFIED)
7	-L- STA. 68+17.17, 44.45' LT (TYPE 1 MODIFIED)
8	-L- STA. 69+65.48, 44.47' LT (TYPE 1 MODIFIED)
9	-L- STA. 70+33.09, 44.27' LT (TYPE 1 MODIFIED)
10	-L- STA. 71+19.87, 49.46' LT (TYPE 3 MODIFIED)
11	-L- STA. 71+34.09, 42.77' LT (TYPE 3 MODIFIED)
12	-L- STA. 71+32.78, 37.75' RT (TYPE 3)

PAVEMENT MARKING DETAILS