

TIP NO.	SHEET NO.
U-3309A	PMP-1
APPROVED: _____	
DATE: _____	
SEAL	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
DURHAM COUNTY**

LOCATION: SR 2028 (T.W. ALEXANDER DRIVE)
FROM SR 1121 (CORNWALLIS ROAD)
TO EAST OF NC 147

CONTRACT: C202964 T.I.P.: U-3309A

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 JULY 2006 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
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - THRU LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSINGS
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	PAVEMENT MARKER SPACING
1251.01	RAISED PAVEMENT MARKERS - TEMPORARY AND PERMANENT
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
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
1) T.W. ALEXANDER DRIVE	THERMOPLASTIC	RAISED
2) CORNWALLIS ROAD	THERMOPLASTIC	RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
D) STOPBAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET
PMP-2	PAVEMENT MARKING SCHEDULE
PMP-3 TO PMP-10	PAVEMENT MARKING DETAIL

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

R.W. KING STATE SIGNING & DELINEATION ENGINEER
M.D. STOKES SIGNING & DELINEATION DESIGN ENGINEER

TIP NO.	SHEET NO.
U-3309A	PMP-2
APPROVED: _____	
DATE: _____	
SEAL	

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM QUANTITY	TOTAL
<u>PAVEMENT MARKINGS</u>			
		THERMOPLASTIC(4", 90 MILS)	
TA	WHITE EDGELINE	13224 LF	
TB	YELLOW EDGELINE	2567 LF	
		TOTAL	15791 LF
		THERMOPLASTIC(4", 120 MILS)	
TC	10 FT. WHITE SKIP	4204 LF	
TD	2 FT. WHITE MINISKIP	2427 LF	
TE	WHITE SOLID LANE LINE	7379 LF	
TI	YELLOW DOUBLE CENTER	3800 LF	
		TOTAL	17810 LF
		THERMOPLASTIC(8", 90 MILS)	
TP	WHITE GORELINE	2137 LF	
TQ	WHITE DIAGONAL	484 LF	
TT	YELLOW DIAGONAL	320 LF	
		TOTAL	2941 LF
		THERMOPLASTIC(24", 120 MILS)	
T2	WHITE STOPBAR	966 LF	
T3	WHITE CROSSWALK LINE	1884 LF	
		TOTAL	2850 LF
		THERMOPLASTICPAVEMENT MARKING CHARACTER (120 MILS)	
UI	ALPHANUMERIC CHAR.	16 EA	
		TOTAL	16 EA
		THERMOPLASTICPAVEMENT MARKING SYMBOLS (90 MILS)	
UA	LEFT TURN ARROW	45 EA	
UB	RIGHT TURN ARROW	33 EA	
UC	STRAIGHT ARROW	50 EA	
UD	COMBO. STRAIGHT/LEFT	8 EA	
UE	COMBO. STRAIGHT/RIGHT	2 EA	
UG	LEFT/RIGHT/STRAIGHT	1 EA	
UJ	BICYCLE SYMBOL (SKID RESISTANT, HEATED-IN-PLACE)	41 EA	
UK	BICYCLE ARROW (SKID RESISTANT, HEATED-IN-PLACE)	41 EA	
		TOTAL	221 EA
<u>MARKERS</u>			
PERMANENT RAISED PAVEMENT MARKERS			
MA	YELLOW & YELLOW	58 EA	
MB	CRYSTAL & RED	635 EA	
		TOTAL	693 EA

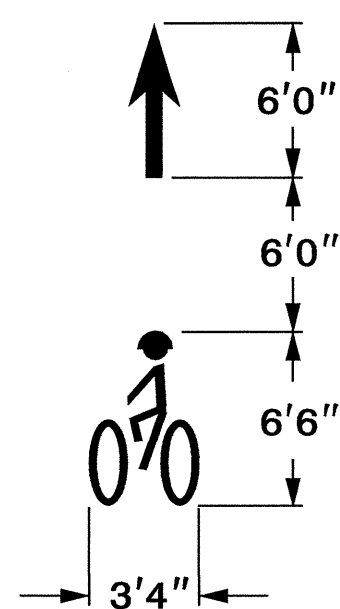
PAVEMENT MARKING SCHEDULE

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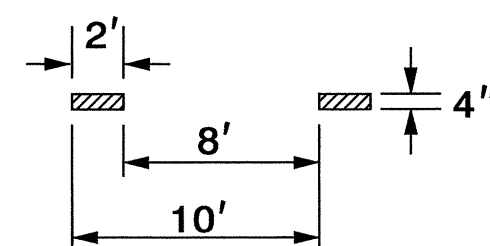


SYMBOL AND PAVEMENT MARKING LEGEND

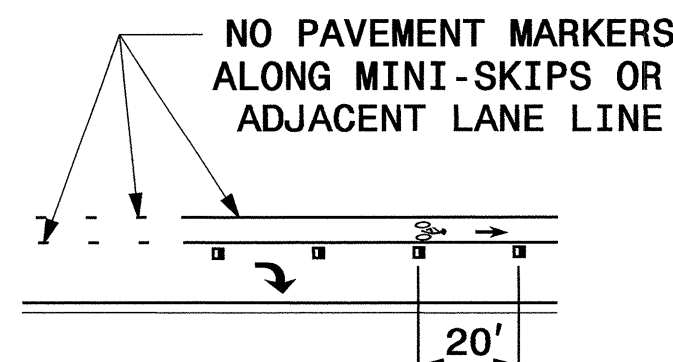
<p>UA LEFT TURN ARROW</p> <p>UB RIGHT TURN ARROW</p> <p>UC STRAIGHT ARROW</p> <p>UJ BICYCLE SYMBOL (HEATED-IN-PLACE)</p> <p>UK BICYCLE ARROW (HEATED-IN-PLACE)</p> <p>ONLY UI ALPHANUMERIC CHARACTER</p>	<p>TA WHITE EDGE LINE (4")</p> <p>TB YELLOW EDGE LINE (4")</p> <p>TC WHITE SKIP LINE (4")</p> <p>TD 2 FT. WHITE MINISKIP (4") (SEE NOTE 3)</p> <p>TE WHITE SOLID LANE LINE (4")</p> <p>TI YELLOW DOUBLE CENTER (4")</p> <p>TT YELLOW DIAGONAL (8")</p> <p>T2 WHITE STOPBAR (24")</p> <p>T3 WHITE CROSSWALK (24")</p>
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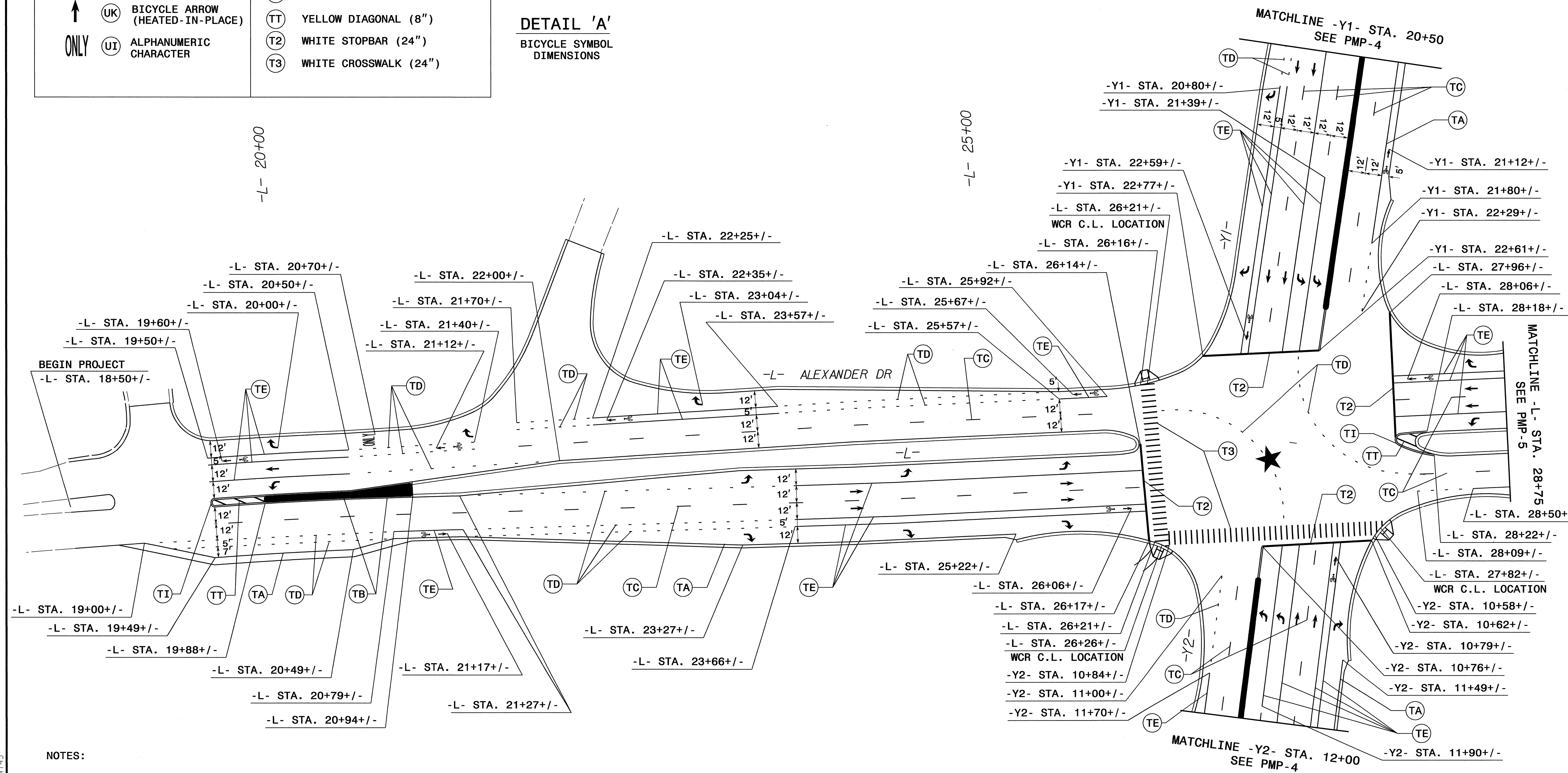
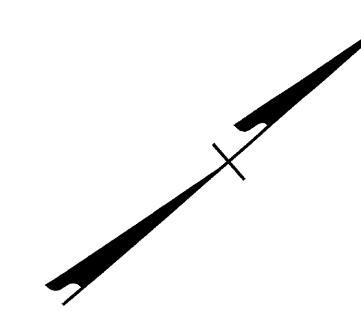
DETAIL 'A'
BICYCLE SYMBOL DIMENSIONS



DETAIL 'B'
MINI-SKIP SPACING FOR BICYCLE LANES AND TURN LANES



DETAIL 'C'
PLACEMENT OF PAVEMENT MARKERS ALONG LANE LINE ADJACENT TO A BICYCLE LANE



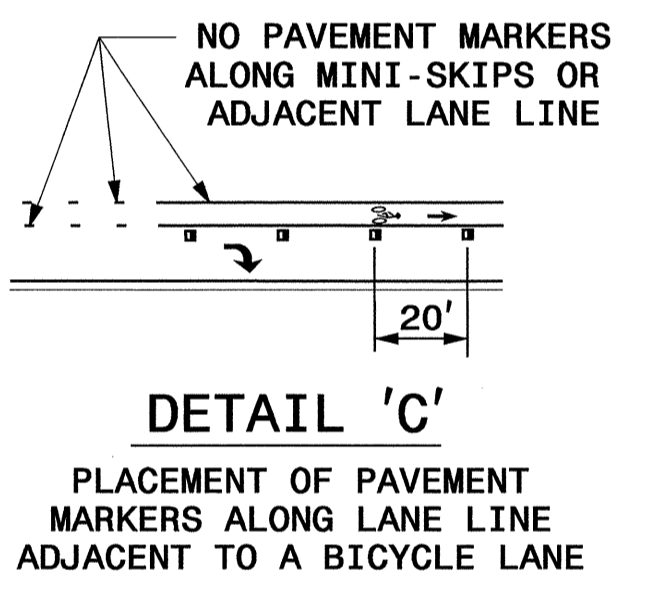
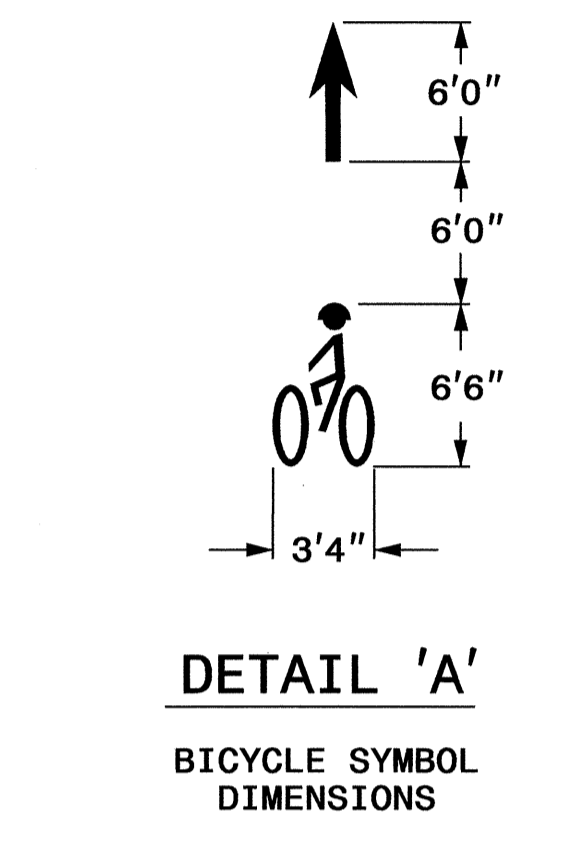
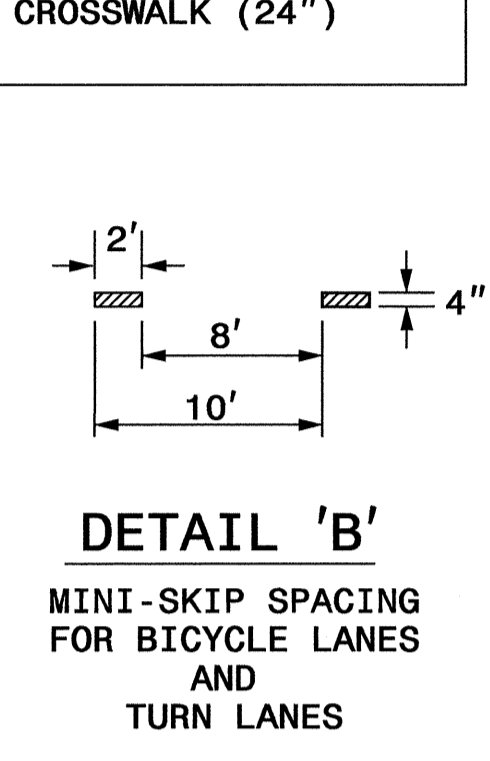
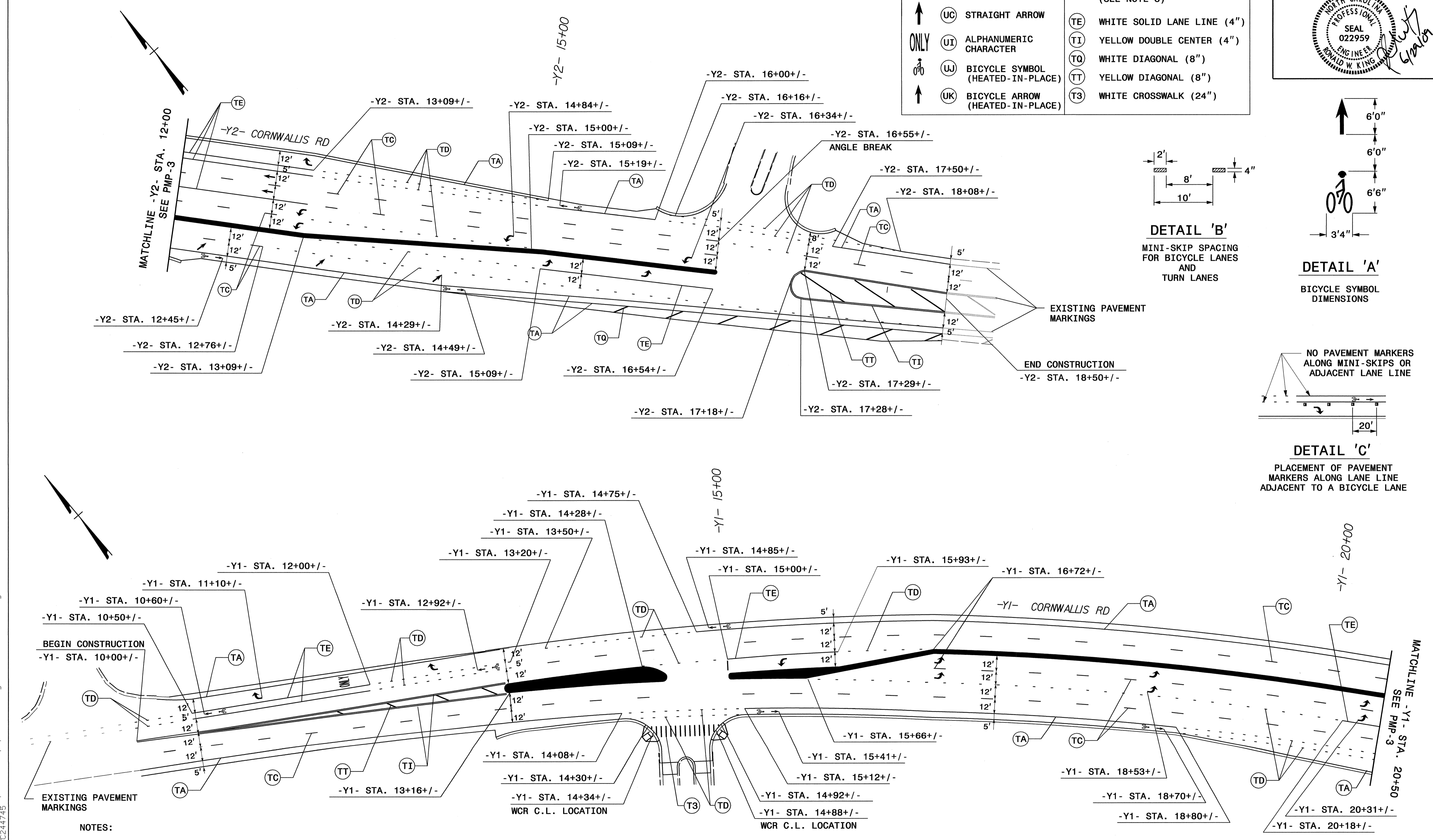
NOTES:

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- SEE DETAIL 'A' FOR BICYCLE SYMBOL DIMENSIONS.
- SEE DETAIL 'B' FOR MINI-SKIP SPACING FOR ALL BICYCLE LANES AND TURN LANES. USE MINI-SKIP SPACING AS SHOWN ON ROADWAY STANDARD DRAWING 1205.01, SHEET 1, FOR ALL OTHER LOCATIONS.

PAVEMENT MARKING DETAIL

SYMBOL AND PAVEMENT MARKING LEGEND

	UA LEFT TURN ARROW		TA WHITE EDGE LINE (4")
	UB RIGHT TURN ARROW		TC WHITE SKIP LINE (4")
	UC STRAIGHT ARROW		TD 2 FT. WHITE MINISKIP (4") (SEE NOTE 3)
	UI ALPHANUMERIC CHARACTER		TE WHITE SOLID LANE LINE (4")
	UJ BICYCLE SYMBOL (HEATED-IN-PLACE)		TI YELLOW DOUBLE CENTER (4")
	UK BICYCLE ARROW (HEATED-IN-PLACE)		TQ WHITE DIAGONAL (8")
			TT YELLOW DIAGONAL (8")
			T3 WHITE CROSSWALK (24")



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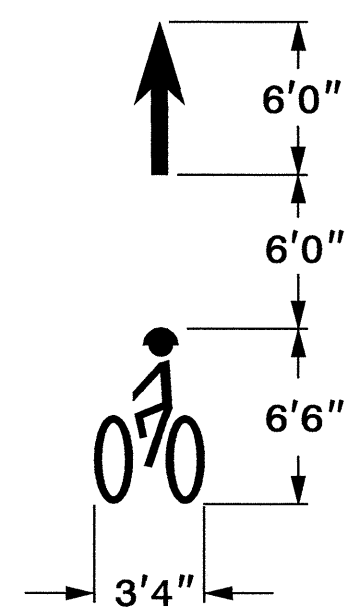
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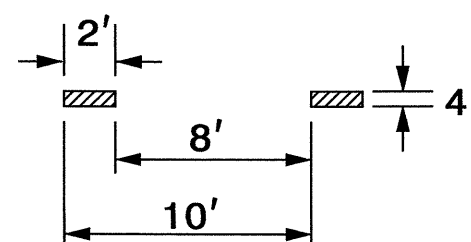
SYMBOL AND PAVEMENT MARKING LEGEND

	(UA) LEFT TURN ARROW		(TA) WHITE EDGE LINE (4")
	(UB) RIGHT TURN ARROW		(TC) WHITE SKIP LINE (4")
	(UC) STRAIGHT ARROW		(TD) 2 FT. WHITE MINISKIP (4") (SEE NOTE 3)
ONLY	(UI) ALPHANUMERIC CHARACTER		(TE) WHITE SOLID LANE LINE (4")
	(UJ) BICYCLE SYMBOL (HEATED-IN-PLACE)		
	(UK) BICYCLE ARROW (HEATED-IN-PLACE)		



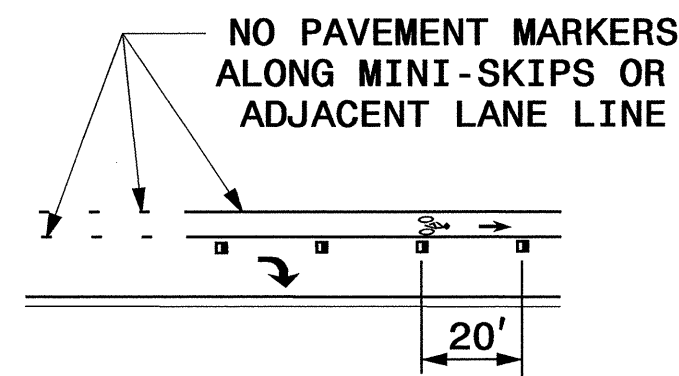
DETAIL 'A'

BICYCLE SYMBOL DIMENSIONS



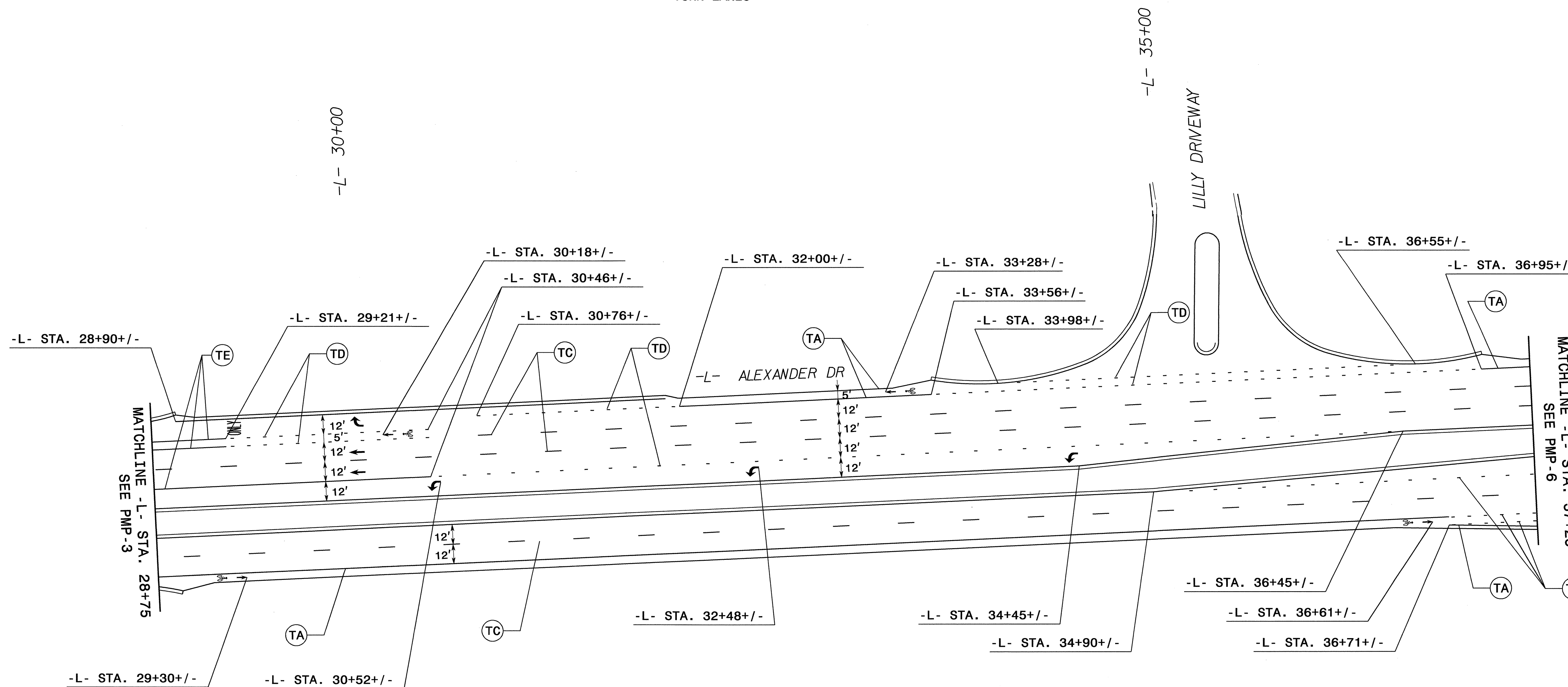
DETAIL 'B'

MINI-SKIP SPACING FOR BICYCLE LANES AND TURN LANES



DETAIL 'C'

PLACEMENT OF PAVEMENT MARKERS ALONG LANE LINE ADJACENT TO A BICYCLE LANE



NOTES:

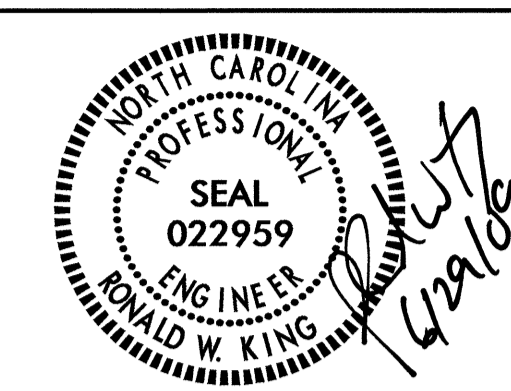
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PAVEMENT MARKING DETAIL

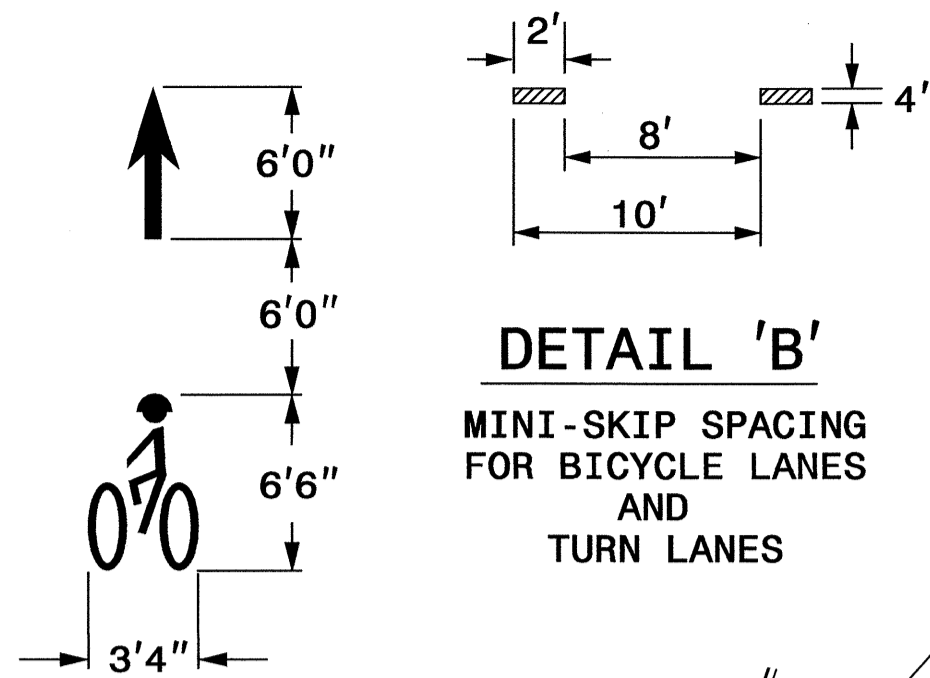
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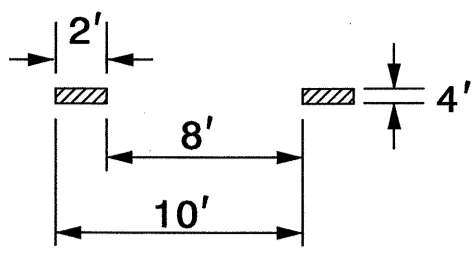
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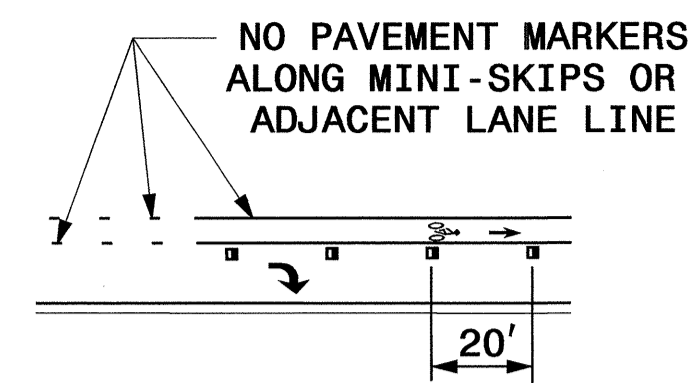
SYMBOL AND PAVEMENT MARKING LEGEND			
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(UB)	RIGHT TURN ARROW	(TB)	YELLOW EDGE LINE (4")
(UC)	STRAIGHT ARROW	(TC)	WHITE SKIP LINE (4")
(UE)	COMB. STRAIGHT/ RIGHT ARROW	(TD)	2 FT. WHITE MINISKIP (4") (SEE NOTE 3)
(UJ)	BICYCLE SYMBOL (HEATED-IN-PLACE)	(TE)	WHITE SOLID LANE LINE (4")
(UK)	BICYCLE ARROW (HEATED-IN-PLACE)	(TI)	YELLOW DOUBLE CENTER (4")
		(TP)	WHITE GORELINE (8")
		(TQ)	WHITE DIAGONAL (8")
		(TT)	YELLOW DIAGONAL (8")
		(T2)	WHITE STOPBAR (24")
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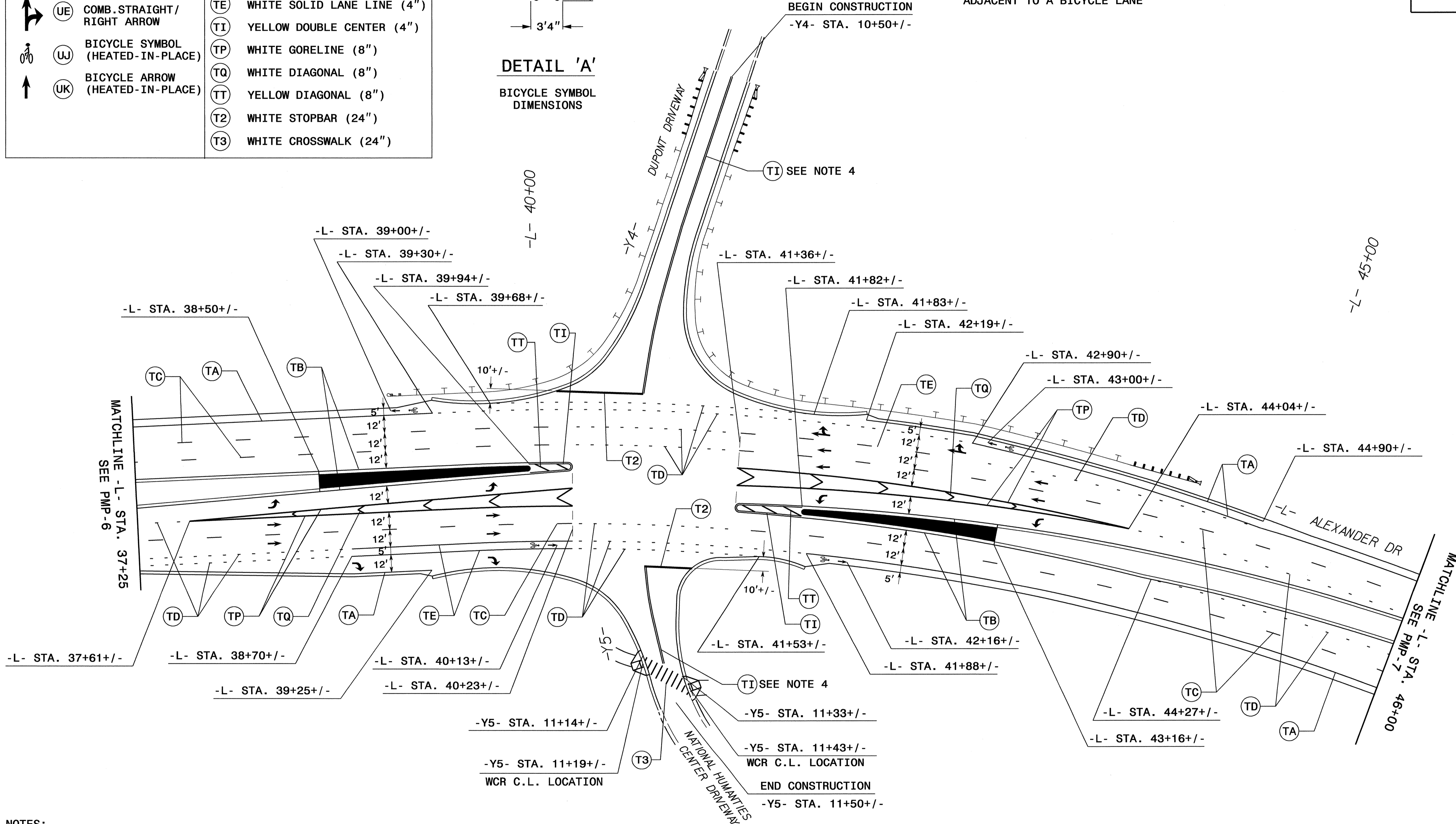
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BICYCLE SYMBOL
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DETAIL 'B'
MINI-SKIP SPACING
FOR BICYCLE LANES
AND
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DETAIL 'C'
PLACEMENT OF PAVEMENT
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- YELLOW DOUBLE CENTER PAVEMENT MARKING AT THIS LOCATION IS OPTIONAL AND PLACEMENT SHALL BE DIRECTED BY THE ENGINEER.

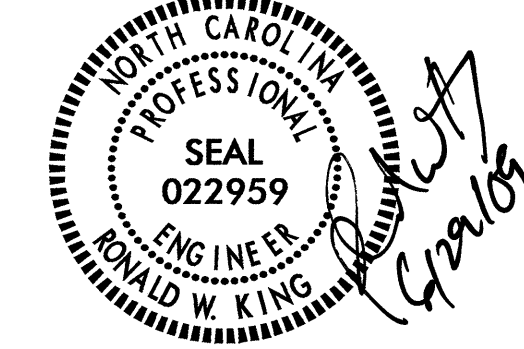
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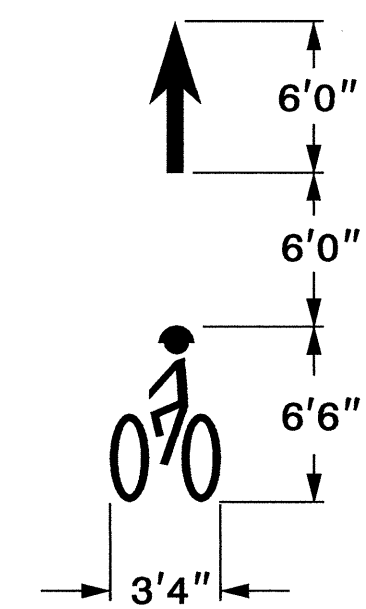
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SEAL

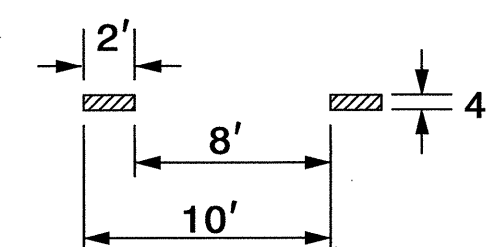


SYMBOL AND PAVEMENT MARKING LEGEND

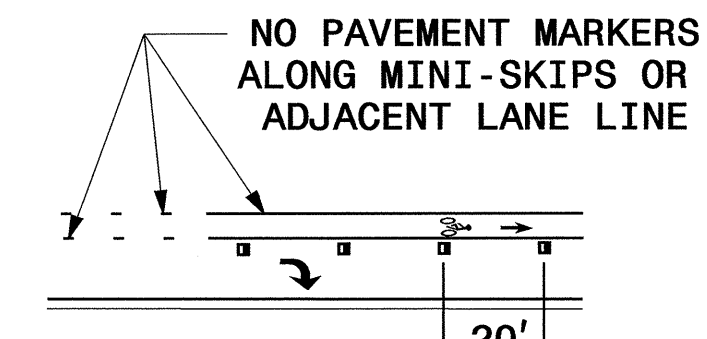
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	(TP) WHITE GORELINE (8")
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	(TT) YELLOW DIAGONAL (8")
	(T2) WHITE STOPBAR (24")
	(T3) WHITE CROSSWALK (24")



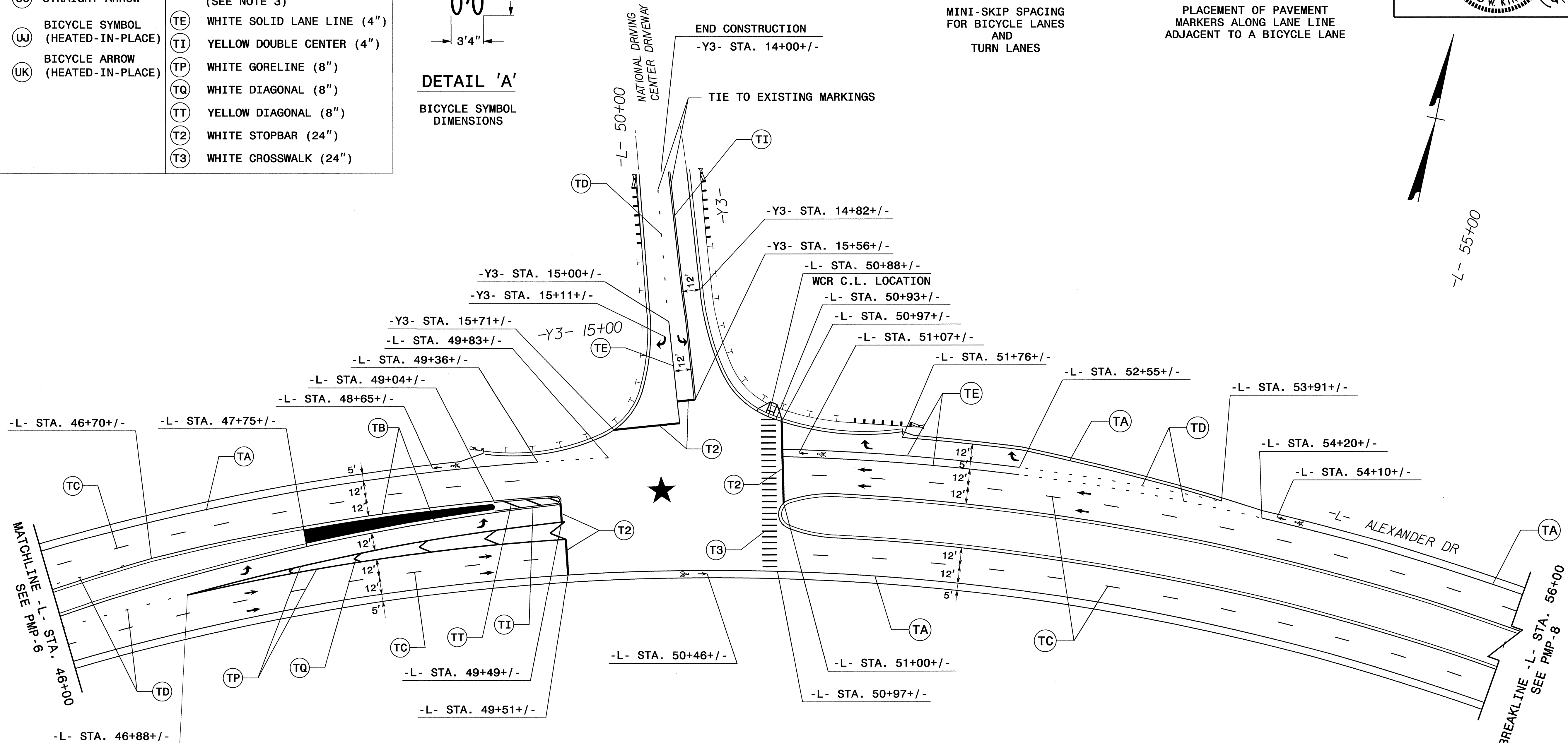
DETAIL 'A'
BICYCLE SYMBOL DIMENSIONS



DETAIL 'B'
MINI-SKIP SPACING FOR BICYCLE LANES AND TURN LANES



DETAIL 'C'
PLACEMENT OF PAVEMENT MARKERS ALONG LANE LINE ADJACENT TO A BICYCLE LANE



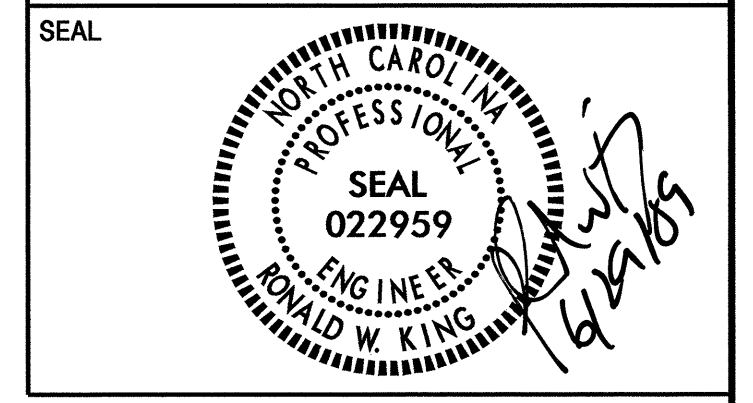
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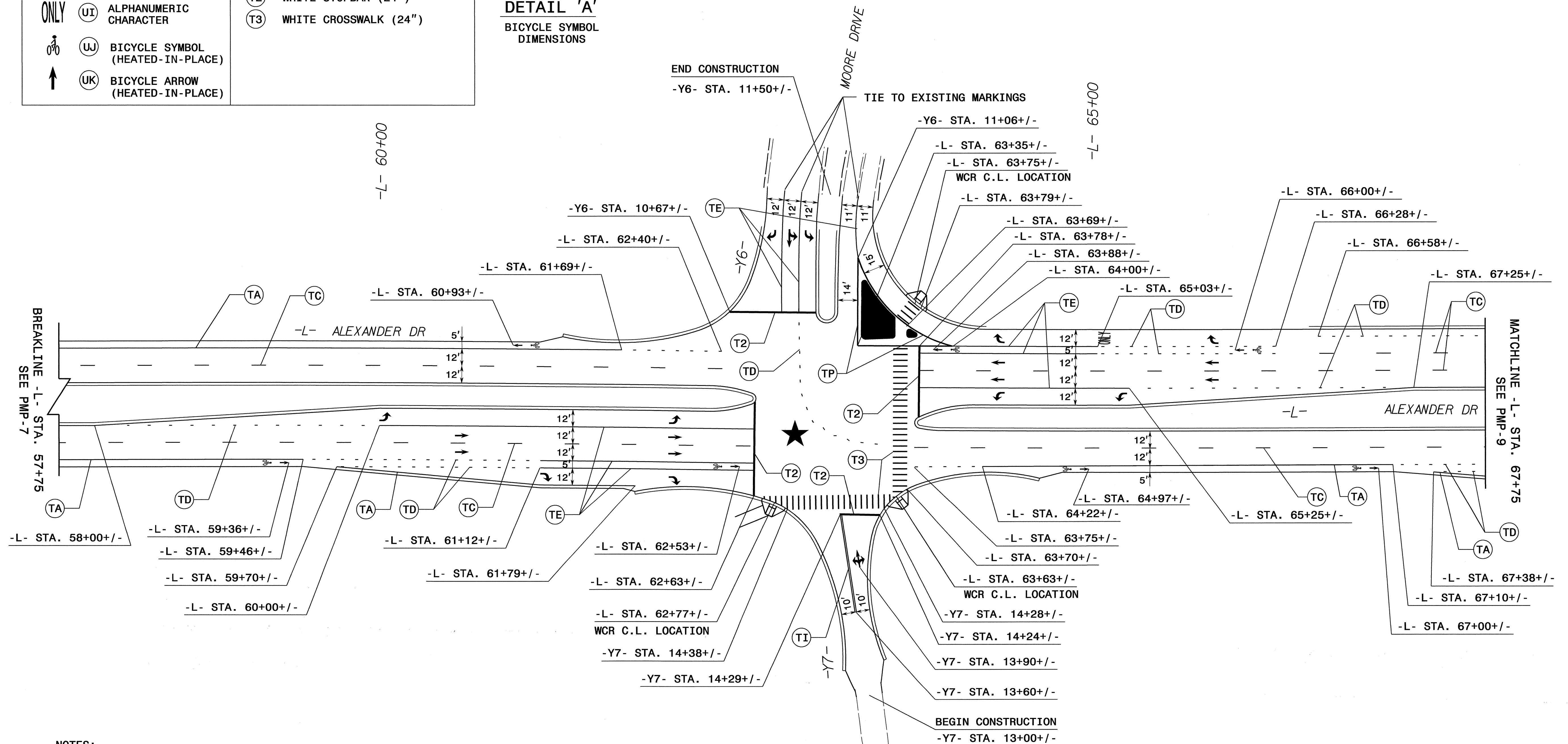
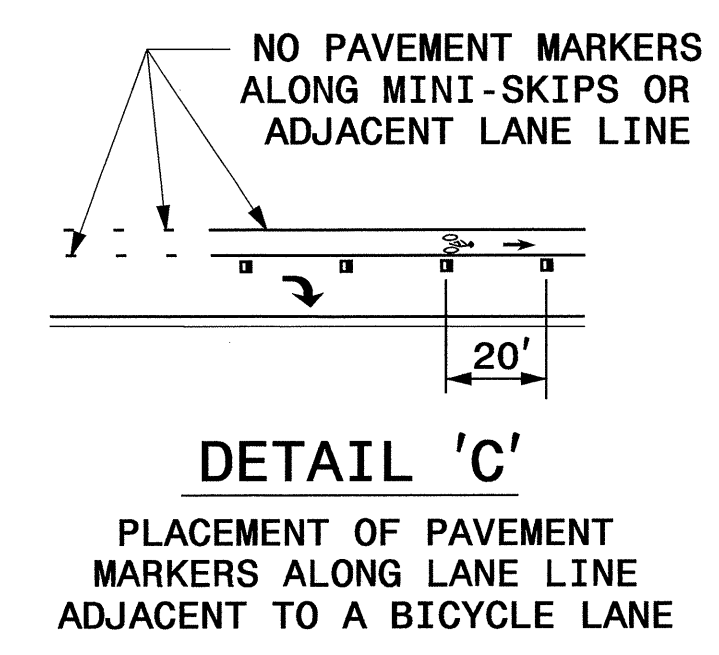
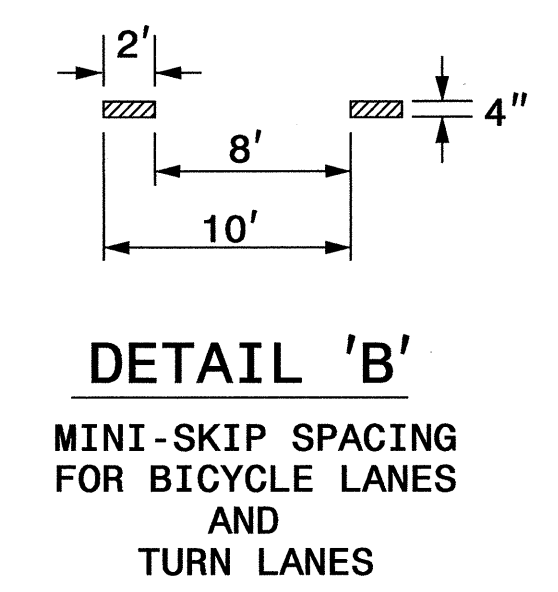
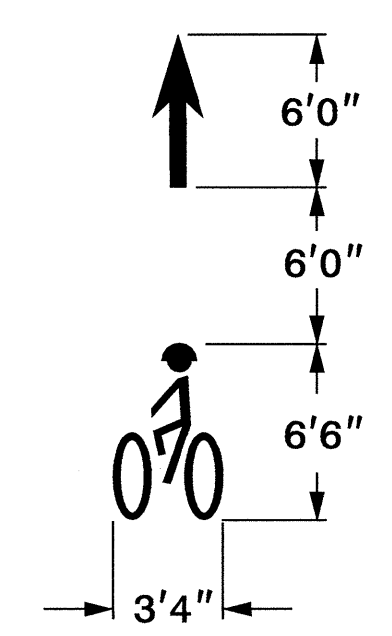
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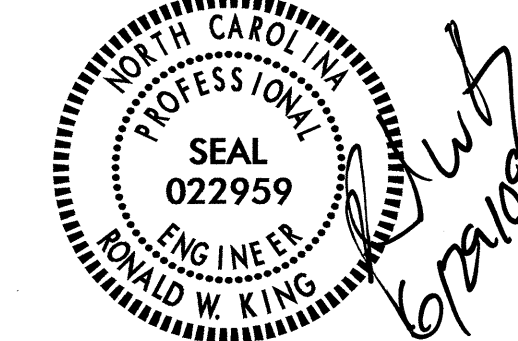
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(UA) LEFT TURN ARROW	(TA) WHITE EDGE LINE (4")
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(UK) BICYCLE ARROW (HEATED-IN-PLACE)	(T2) WHITE STOPBAR (24")
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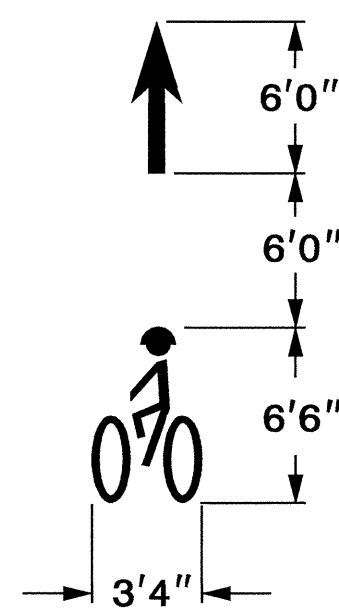
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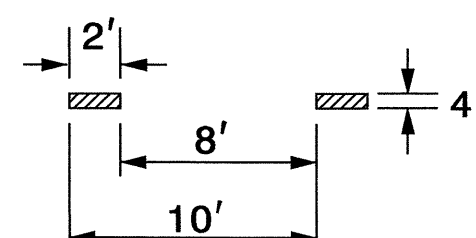


SYMBOL AND PAVEMENT MARKING LEGEND

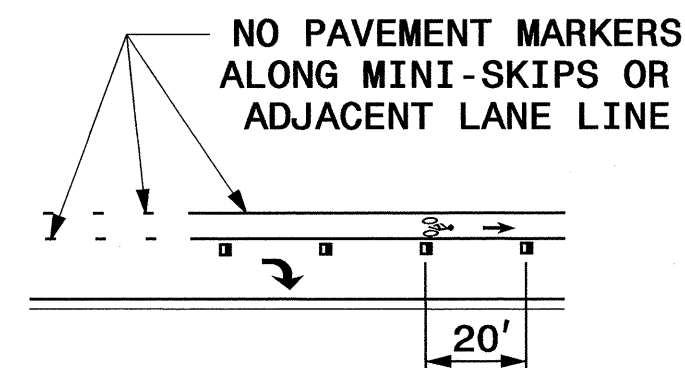
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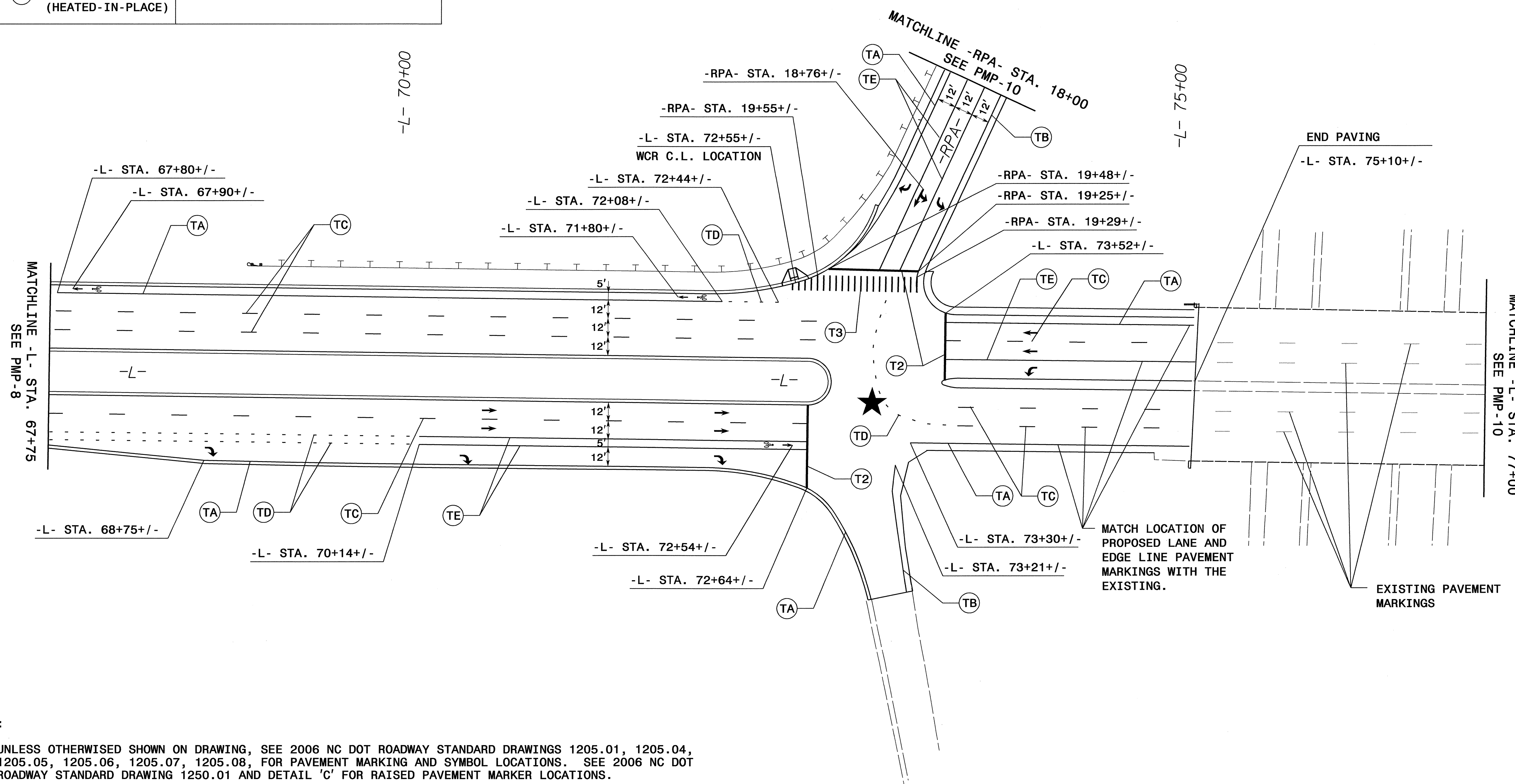
DETAIL 'A'
BICYCLE SYMBOL DIMENSIONS



DETAIL 'B'
MINI-SKIP SPACING FOR BICYCLE LANES AND TURN LANES



DETAIL 'C'
PLACEMENT OF PAVEMENT MARKERS ALONG LANE LINE ADJACENT TO A BICYCLE LANE



NOTES:

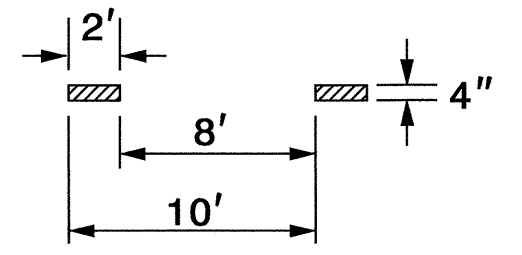
- UNLESS OTHERWISE SHOWN ON DRAWING, SEE 2006 NC DOT ROADWAY STANDARD DRAWINGS 1205.01, 1205.04, 1205.05, 1205.06, 1205.07, 1205.08, FOR PAVEMENT MARKING AND SYMBOL LOCATIONS. SEE 2006 NC DOT ROADWAY STANDARD DRAWING 1250.01 AND DETAIL 'C' FOR RAISED PAVEMENT MARKER LOCATIONS.
- SEE DETAIL 'A' FOR BICYCLE SYMBOL DIMENSIONS.
- SEE DETAIL 'B' FOR MINI-SKIP SPACING FOR ALL BICYCLE LANES AND TURN LANES. USE MINI-SKIP SPACING AS SHOWN ON ROADWAY STANDARD DRAWING 1205.01, SHEET 1, FOR ALL OTHER LOCATIONS.

PAVEMENT MARKING DETAIL

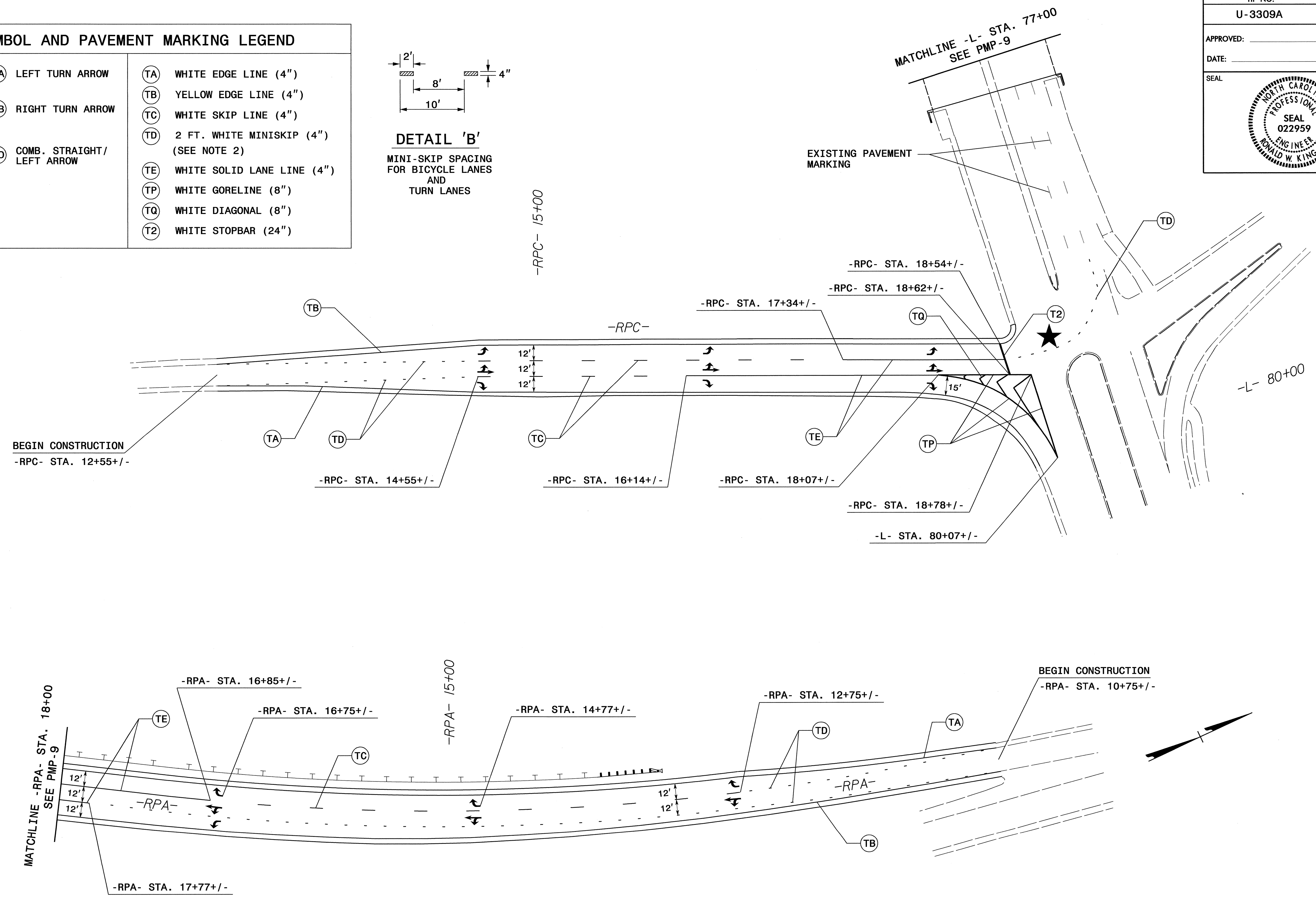
APPROVED: _____
 DATE: _____



SYMBOL AND PAVEMENT MARKING LEGEND	
(UA)	LEFT TURN ARROW
(UB)	RIGHT TURN ARROW
(UD)	COMB. STRAIGHT/ LEFT ARROW
(TA)	WHITE EDGE LINE (4")
(TB)	YELLOW EDGE LINE (4")
(TC)	WHITE SKIP LINE (4")
(TD)	2 FT. WHITE MINISKIP (4") (SEE NOTE 2)
(TE)	WHITE SOLID LANE LINE (4")
(TP)	WHITE GORELINE (8")
(TQ)	WHITE DIAGONAL (8")
(T2)	WHITE STOPBAR (24")



DETAIL 'B'
 MINI-SKIP SPACING
 FOR BICYCLE LANES
 AND
 TURN LANES



NOTES:

- UNLESS OTHERWISE SHOWN ON DRAWING, SEE 2006 NC DOT ROADWAY STANDARD DRAWINGS 1205.01, 1205.04, 1205.05, 1205.08, 1205.09 FOR PAVEMENT MARKING AND SYMBOL LOCATIONS AND 1250.01 FOR RAISED PAVEMENT MARKER LOCATIONS.
- SEE DETAIL 'B' FOR MINI-SKIP SPACING FOR ALL BICYCLE LANES AND TURN LANES. USE MINI-SKIP SPACING AS SHOWN ON ROADWAY STANDARD DRAWING 1205.01, SHEET 1, FOR ALL OTHER LOCATIONS.

PAVEMENT MARKING DETAIL

29-JUN-2009 12:30
 Y:\Traffic\signing\cadd\pmp\current pmp\U-3309A_Sgn_PMP_10_Version 4.dgn
 dstokes AT WZTC244745