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T.I.P.: U-3338B

CONTRACT: C203496

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
NEW HANOVER COUNTY**

<small>TIP NO.</small> U-3338B	<small>SHEET NO.</small> PMP-1
<small>APPROVED:</small>	
<small>DATE:</small> 12/10/2014	

**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 2012 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 - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

**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>
ALL ROADS	THERMOPLASTIC	RAISED
- 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) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

**INDEX**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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PMP-1A	LANE DROP REVISED STANDARD DRAWING
PMP-1B	CROSSWALK PAVEMENT MARKING GUIDANCE DETAIL
PMP-2	CURB RAMP LOCATIONS AND SYMBOL LEGEND
PMP-3-12	PAVEMENT MARKING DETAILS

**PAVEMENT MARKING SCHEDULE**

<u>SYMBOL</u>	<u>DESCRIPTION</u>
THERMOPLASTIC(24", 120 MILS)	
T2	WHITE STOPBAR
THERMOPLASTIC(4", 90 MILS)	
TA	WHITE EDGELINE
TB	YELLOW EDGELINE
THERMOPLASTIC(4", 120 MILS)	
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
T8	2 FT. - 6 FT./SP WHITE MINISKIP
T9	2 FT. - 6 FT./SP YELLOW MINISKIP
THERMOPLASTIC(8", 90 MILS)	
TO	WHITE DIAGONAL
TP	YELLOW DIAGONAL
TN	WHITE GORELINE
THERMOPLASTIC(8", 120 MILS)	
T13	3 FT. - 9 FT./SP WHITE MINISKIP
TR	WHITE SOLID LANE LINE
TQ	WHITE CROSSWALK LINE
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
UA	LEFT TURN ARROW
UB	RIGHT TURN ARROW
UC	STRAIGHT ARROW
UD	COMBO. LEFT/STRAIGHT ARROW
UE	COMBO. RIGHT/STRAIGHT ARROW
UK	BICYCLE STRAIGHT ARROW
UT	U-TURN ARROW
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (120 MILS)	
UI	ALPHANUMERIC CHAR.
UL	BICYCLE CHAR.

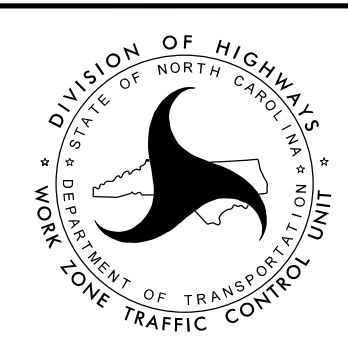
*PLAN PREPARED BY: Ramey Kemp & Associates*


W. JASON HAMILTON PROJECT MANAGER  
NICHOLAS E. BURNS PROJECT ENGINEER



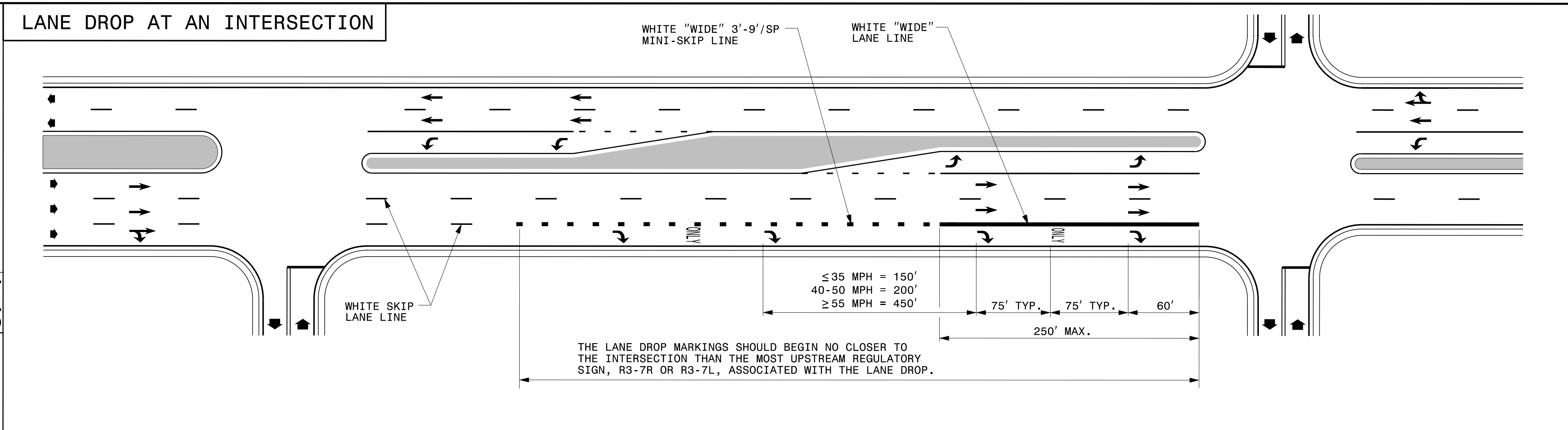
*PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT*

AYMAN ALOUDWAH SIGNING & DELINEATION REGIONAL ENGINEER  
ERIC WARD SIGNING & DELINEATION PROJECT DESIGN ENGINEER



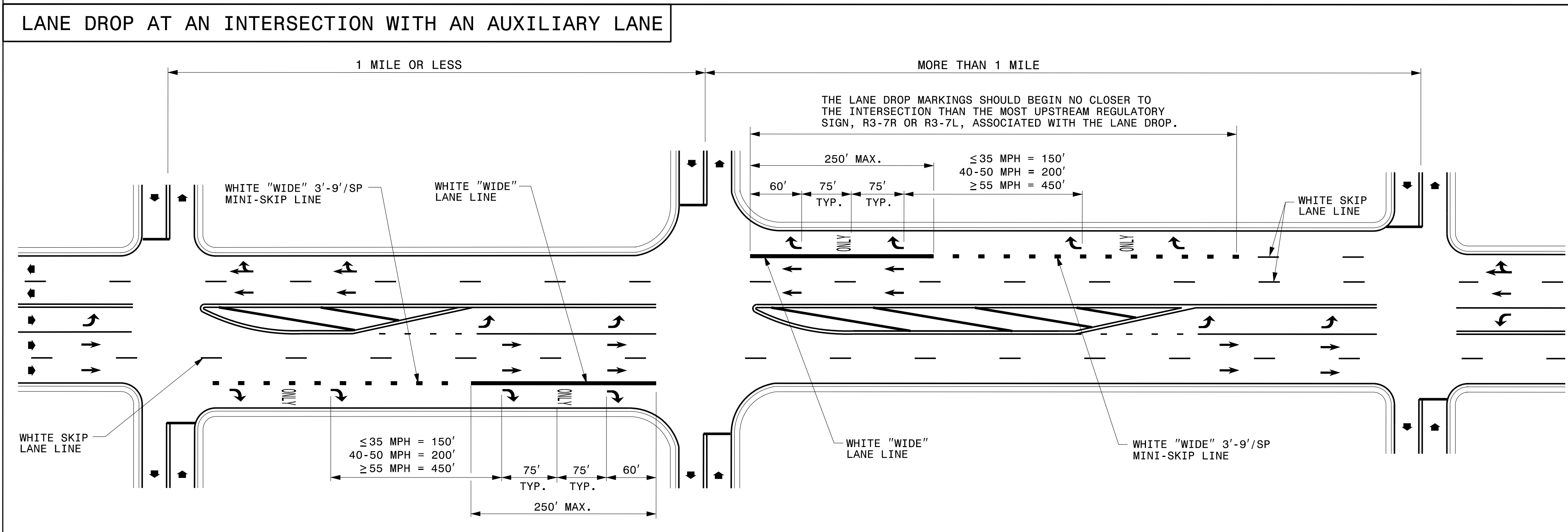
PROJECT REFERENCE NO. U-3338B	SHEET NO. PMP-1A
APPROVED: <i>Ron King</i> 13E7AF78A4448	
DATE: 1/23/2015	
SEAL	
	

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**PAVEMENT MARKINGS**  
LANE DROPS

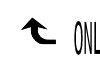



ENGLISH DETAIL DRAWING FOR  
**PAVEMENT MARKINGS**  
LANE DROPS

SHEET 1 OF 3  
**1205D06**

GENERAL NOTES:

- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.
- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

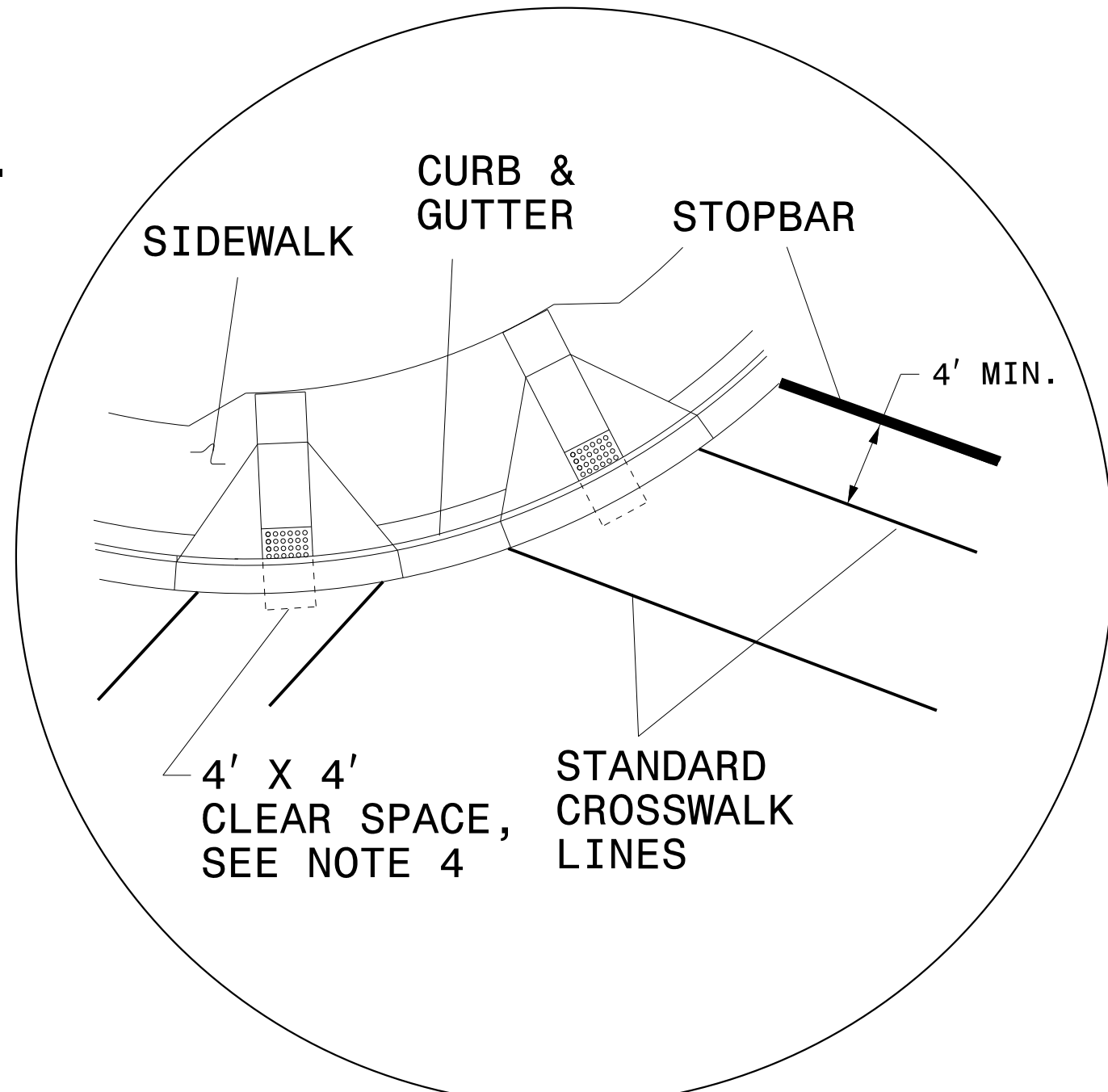
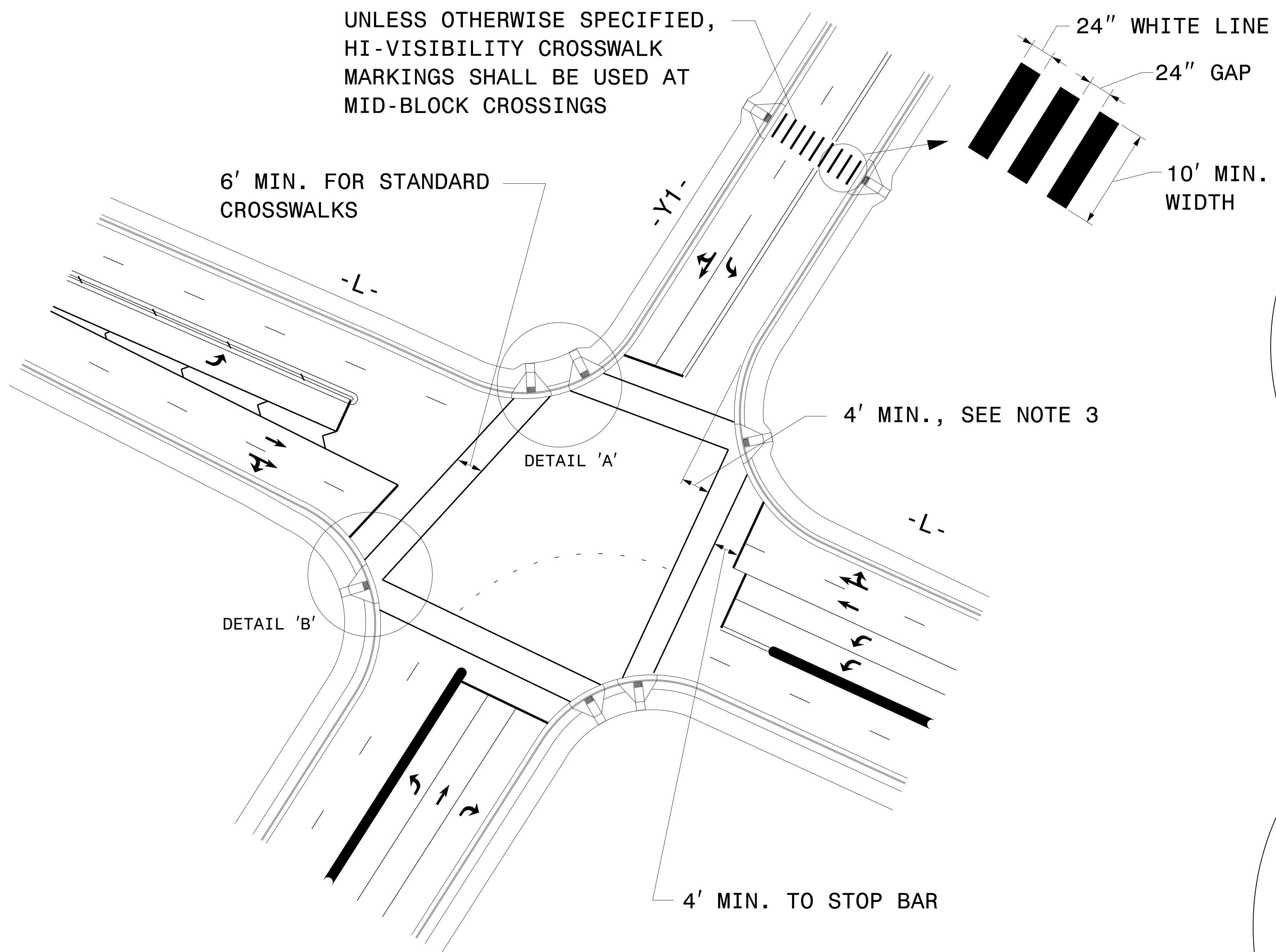
LEGEND	
W = WIDTH OF TRAVEL LANE	 PAVEMENT MARKING SYMBOLS & CHARACTERS
 DIRECTION OF TRAFFIC FLOW	

SHEET 1 OF 3  
**1205D06**

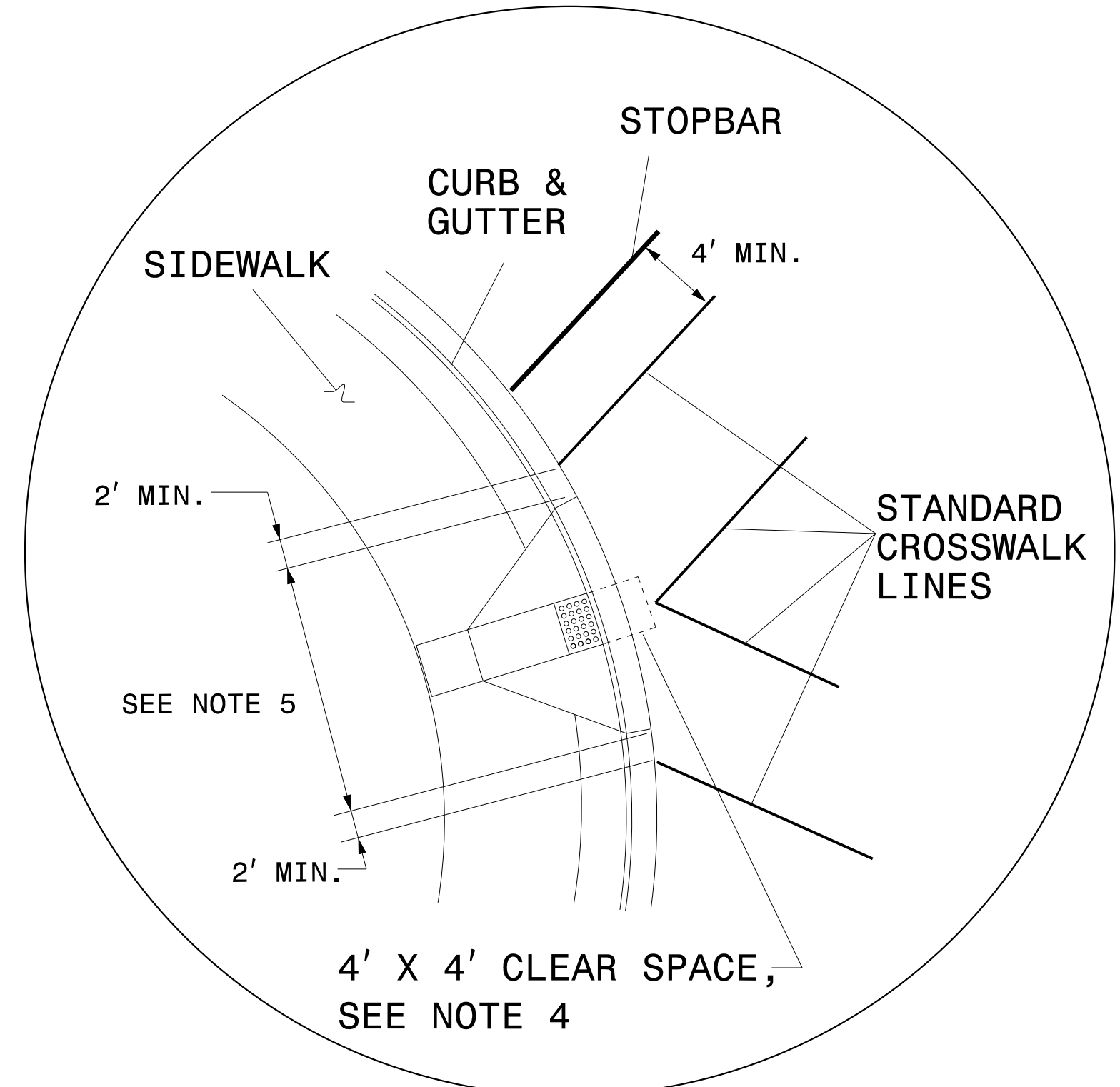
**REVISED PAVEMENT MARKING  
ROADWAY STANDARD DRAWING**

1/23/2015  
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UNLESS OTHERWISE SPECIFIED,  
HI-VISIBILITY CROSSWALK  
MARKINGS SHALL BE USED AT  
MID-BLOCK CROSSINGS



DETAIL 'A'- DUAL CURB RAMPS



DETAIL 'B'- SINGLE DIAGONAL CURB RAMP

**GUIDANCE DETAIL FOR CROSSWALK MARKINGS**

**NOTES:**

1. USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.
2. THE CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. ONLY INSTALL CROSSWALK MARKINGS WHERE SHOWN ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALL AS SPECIFIED ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.
3. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.
4. BEYOND THE BOTTOM GRADE BRAKE, A CLEAR SPACE OF 4' X 4' MINIMUM SHALL BE PROVIDED WITHIN THE MARKINGS.
5. SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2 FEET LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.
6. CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.

**CROSSWALK PAVEMENT MARKING  
GUIDANCE DETAIL**

1/23/2015 P:\Projects-U\U3338B\Traffic\Signing\CADD\NMP\Pavement Marking Details.dgn

Prepared in the offices of:

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<b>TIP NO.</b> U-3338B	<b>SHEET NO.</b> PMP-2
DocuSign by: <i>William J. Hamilton</i>	
<b>APPROVED:</b>	
DATE: 1/15/2015	
SEAL	

**CURB RAMP LOCATIONS AND STYLES**  
(CENTERLINE OF RAMP AT FACE OF CURB)

1	-L- 16+41 +/-	TYPE 2B
2	-L- 16+53 +/-	TYPE 2B
3	-L- 17+77 +/-	TYPE 2B
4	-L- 17+88 +/-	TYPE 2B
5	-L- 18+05 +/-	TYPE 2B
6	-L- 17+94 +/-	TYPE 2B
7	-L- 16+69 +/-	TYPE 2B
8	-L- 16+58 +/-	TYPE 2B
9	-L- 22+49 +/-	TYPE 1
10	-L- 23+09 +/-	TYPE 1
11	-L- 22+70 +/-	TYPE 1
12	-L- 23+10 +/-	TYPE 1
13	-L- 26+59 +/-	TYPE 1
14	-L- 27+45 +/-	TYPE 1
15	-L- 30+72 +/-	TYPE 1
16	-L- 31+51 +/-	TYPE 1
17	-L- 39+94 +/-	TYPE 1
18	-L- 40+82 +/-	TYPE 1
19	-L- 44+30 +/-	TYPE 2B
20	-L- 44+42 +/-	TYPE 2B
21	-L- 45+23 +/-	TYPE 2B
22	-L- 45+35 +/-	TYPE 2B
23	-L- 45+32 +/-	TYPE 2B
24	-L- 45+09 +/-	TYPE 2B
25	-L- 44+56 +/-	TYPE 2B
26	-L- 44+39 +/-	TYPE 2B
27	-L- 55+84 +/-	TYPE 2B
28	-L- 55+94 +/-	TYPE 2B
29	-L- 57+14 +/-	TYPE 2B

**CURB RAMP LOCATIONS AND STYLES**  
(CENTERLINE OF RAMP AT FACE OF CURB)

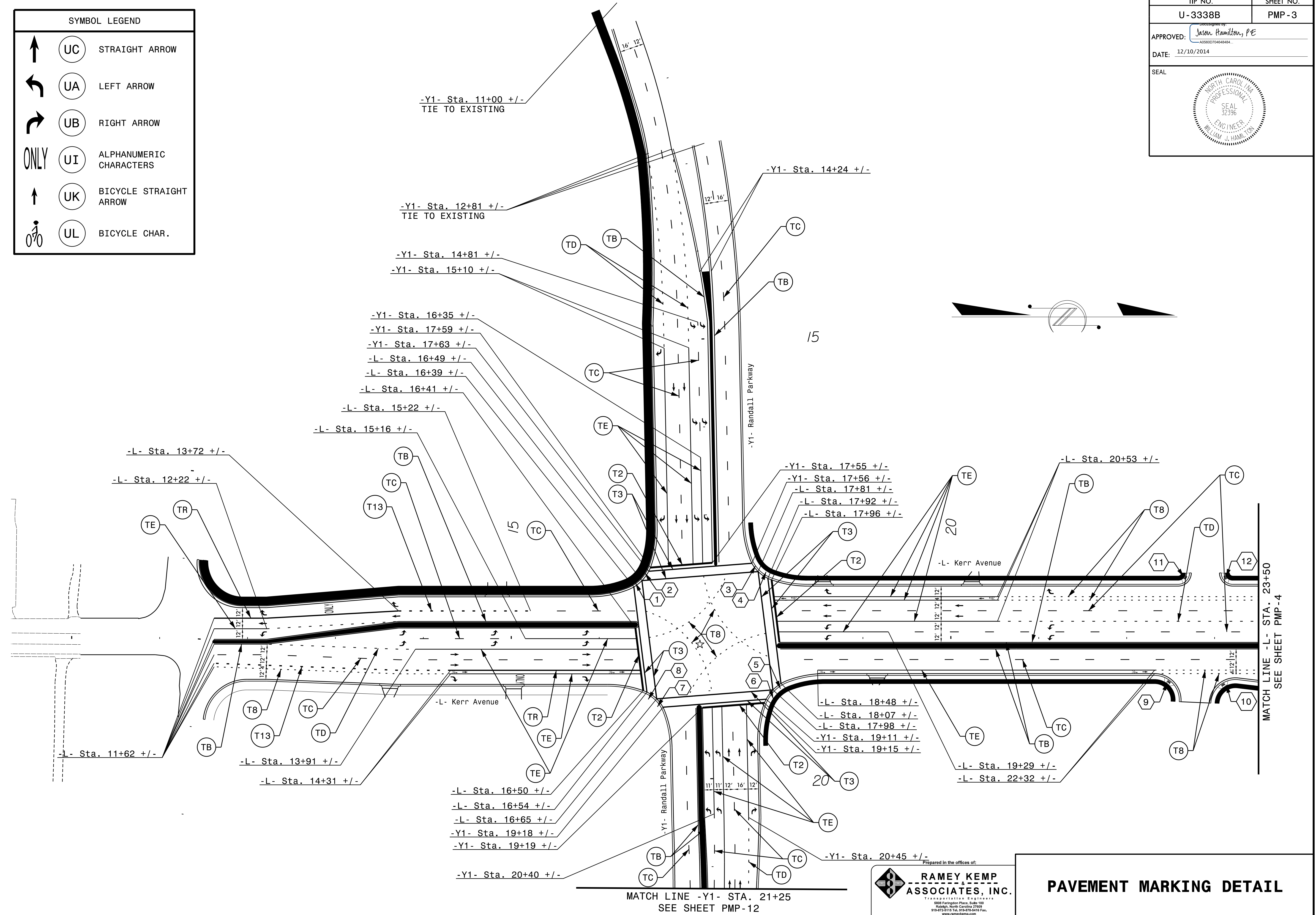
30	-L- 57+30 +/-	TYPE 2B
31	-L- 57+50 +/-	TYPE 2B
32	-L- 57+41 +/-	TYPE 2B
33	-L- 56+16 +/-	TYPE 2B
34	-L- 55+89 +/-	TYPE 2B
35	-L- 60+28 +/-	TYPE 1
36	-L- 61+05 +/-	TYPE 1
37	-L- 66+55 +/-	TYPE 2B
38	-L- 66+66 +/-	TYPE 2B
39	-L- 67+38 +/-	TYPE 2B
40	-L- 67+62 +/-	TYPE 2B
41	-L- 67+65 +/-	TYPE 2B
42	-L- 67+53 +/-	TYPE 2B
43	-L- 66+75 +/-	TYPE 2B
44	-L- 66+56 +/-	TYPE 2B
45	-L- 70+36 +/-	TYPE 1
46	-L- 71+10 +/-	TYPE 1
47	-L- 70+35 +/-	TYPE 1
48	-L- 71+20 +/-	TYPE 1
49	-L- 77+38 +/-	TYPE 1
50	-L- 78+23 +/-	TYPE 1
51	-L- 78+95 +/-	TYPE 1
52	-L- 79+79 +/-	TYPE 1
53	-L- 84+20 +/-	TYPE 2B
54	-L- 84+35 +/-	TYPE 2B
55	-L- 85+06 +/-	TYPE 2B
56	-L- 85+18 +/-	TYPE 2B
57	-L- 85+18 +/-	TYPE 2B
58	-L- 84+88 +/-	TYPE 2B

**CURB RAMP LOCATIONS AND STYLES**  
(CENTERLINE OF RAMP AT FACE OF CURB)

59	-L- 84+28 +/-	TYPE 2B
60	-L- 84+17 +/-	TYPE 2B
61	-Y6- 30+23 +/-	STANDARD
62	-Y6- 30+12 +/-	STANDARD
63	-Y6- 30+14 +/-	STANDARD
64	-Y6- 30+39 +/-	STANDARD
65	-Y6- 31+27 +/-	STANDARD
66	-Y6- 30+95 +/-	STANDARD
67	-DR1- 10+35 +/-	TYPE 1
68	-Y15- 14+88 +/-	TYPE 1
69	-Y15- 14+71 +/-	TYPE 1
70	-DR1- 10+22 +/-	TYPE 1
71	-Y6- 10+32 +/-	STANDARD
72	-Y6- 10+17 +/-	STANDARD
73	-Y6- 9+31 +/-	STANDARD
74	-Y6- 10+28 +/-	STANDARD
75	-Y17- 10+34 +/-	TYPE 2A
76	-Y17- 10+34 +/-	TYPE 2A
77	-Y17- 13+31 +/-	TYPE 2A
78	-Y17- 13+33 +/-	TYPE 2A
79	-Y6- 26+51 +/-	TYPE 1
80	-Y6- 27+03 +/-	TYPE 1
81	-Y7A- 21+19 +/-	TYPE 1
82	-Y7A- 22+56 +/-	TYPE 1

SEE ROADWAY PLANS FOR SPECIAL CURB RAMP DETAILS.

SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW
	UI ALPHANUMERIC CHARACTERS
	UK BICYCLE STRAIGHT ARROW
	UL BICYCLE CHAR.

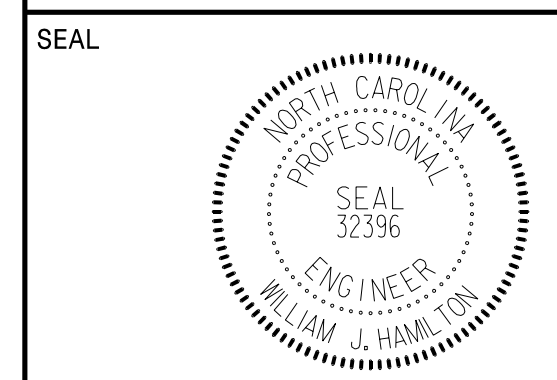


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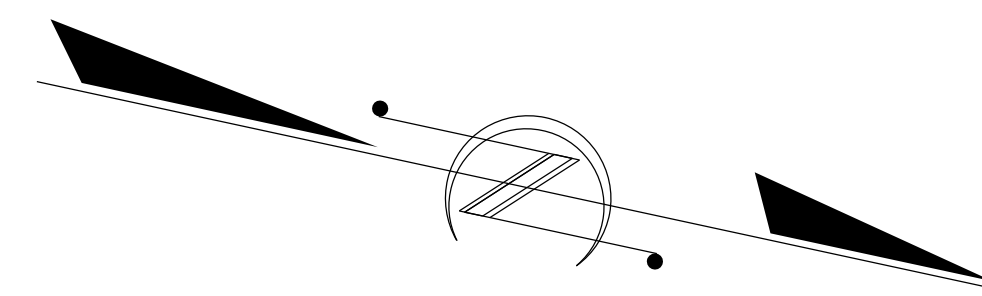
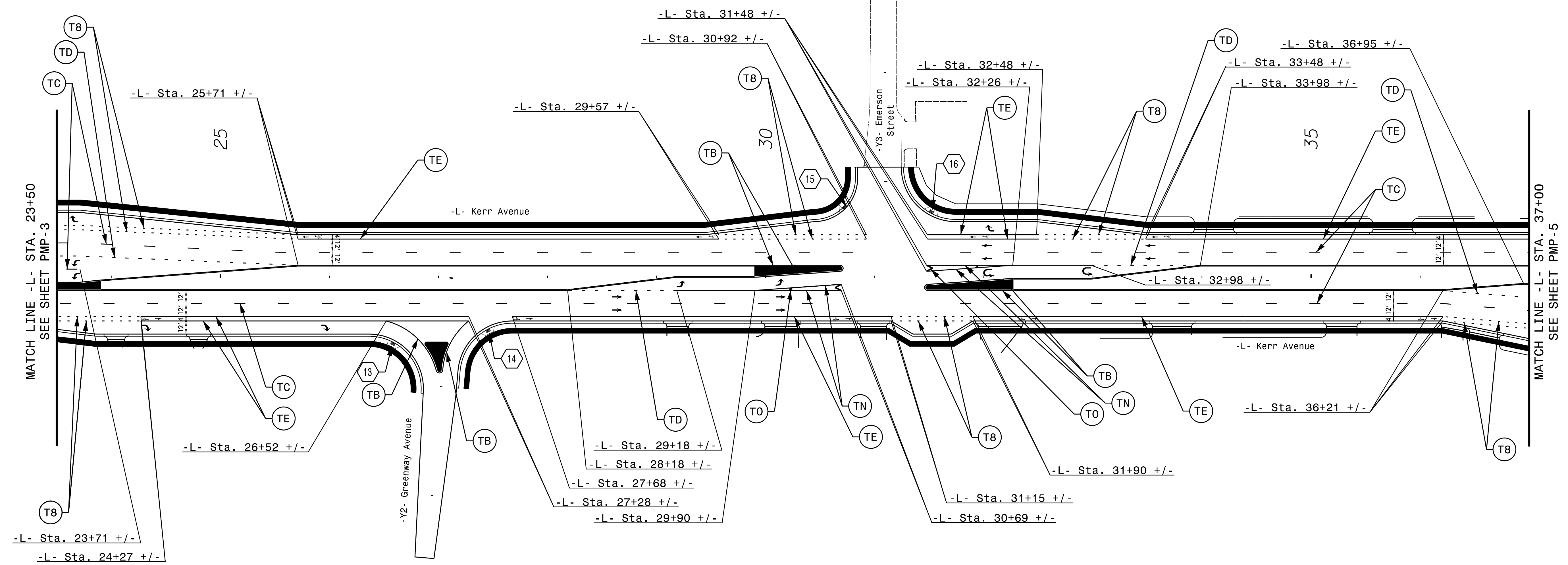
**PAVEMENT MARKING DETAIL**

APPROVED: Jason Hamilton, P.E.  
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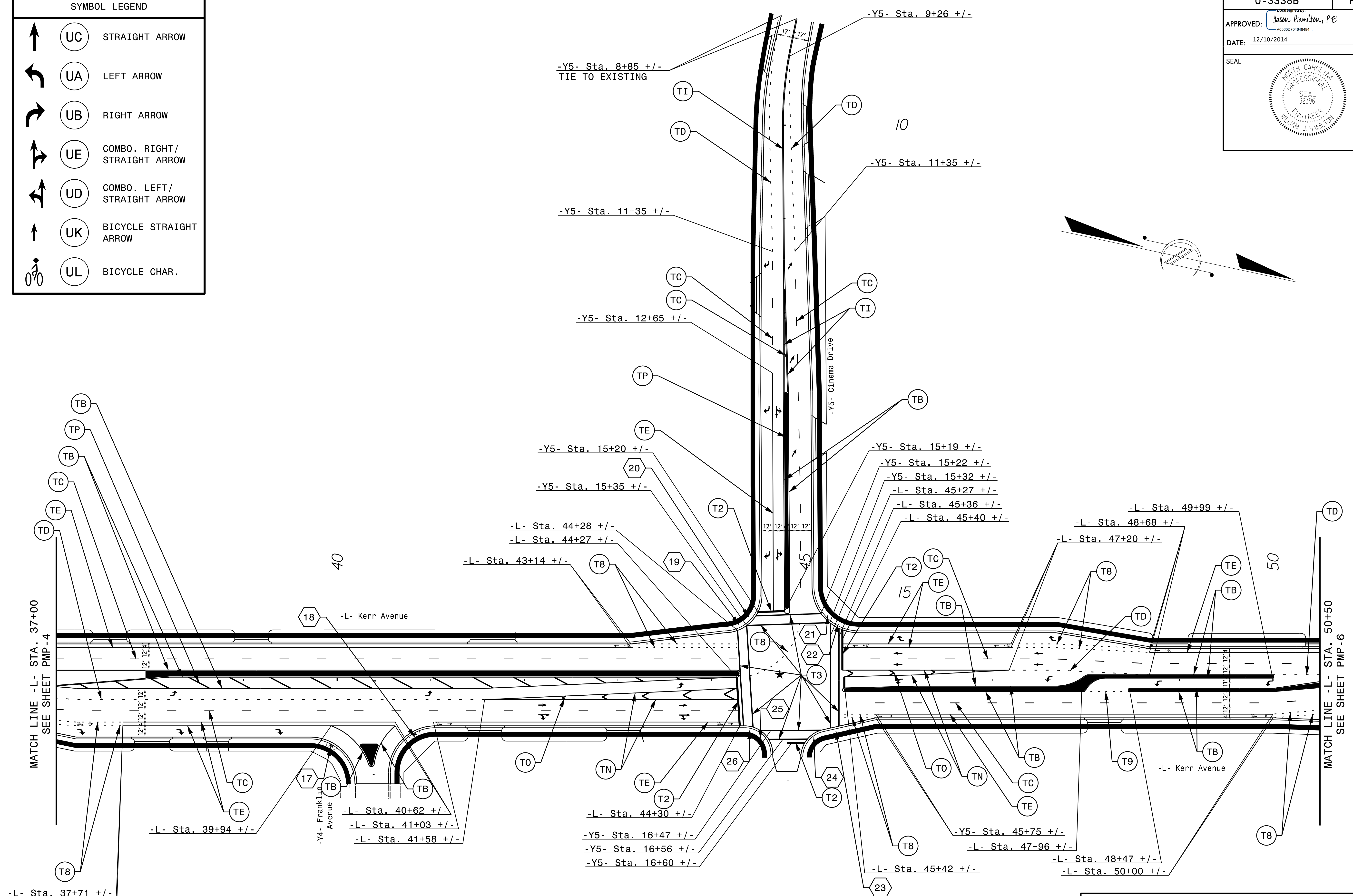
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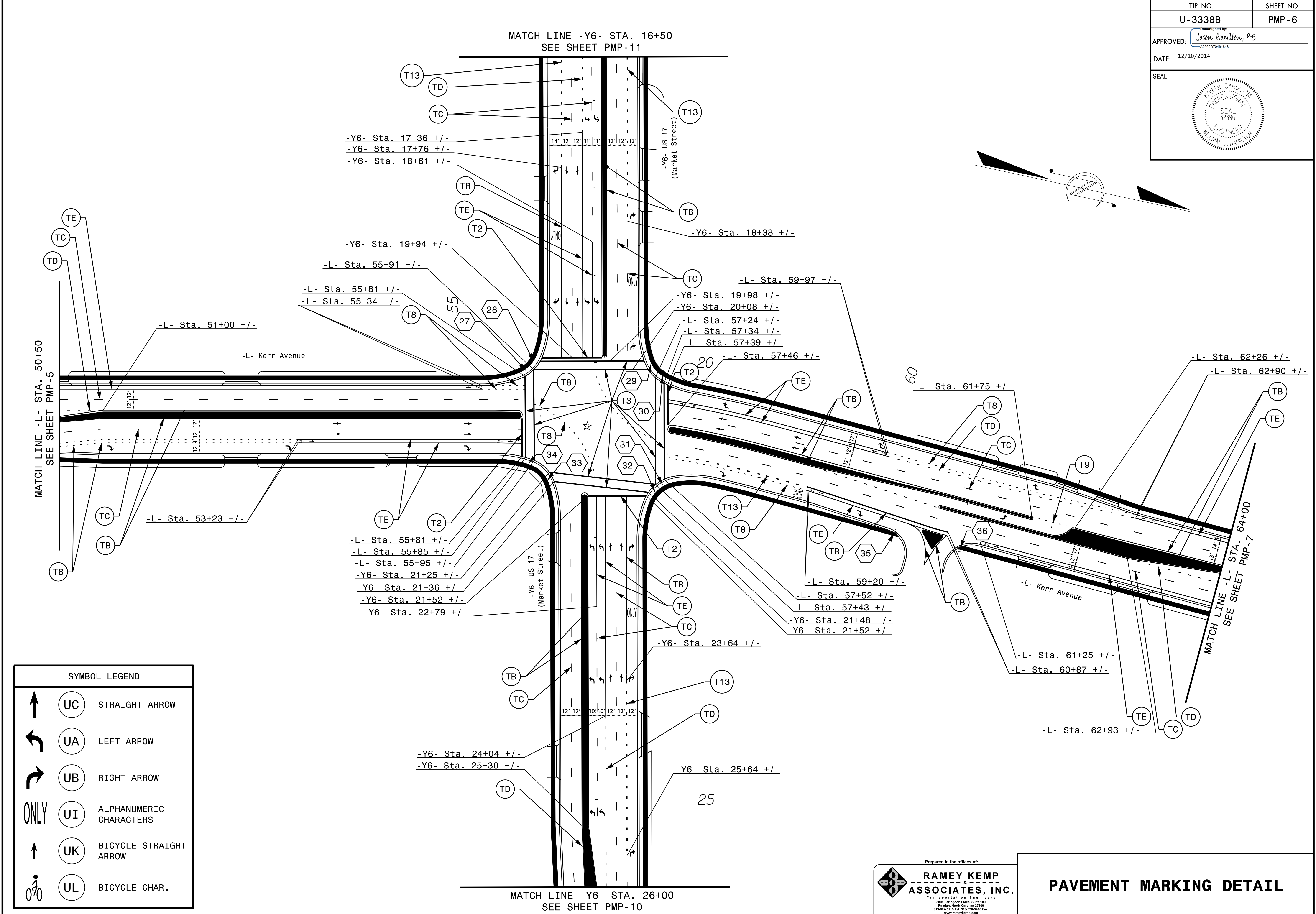
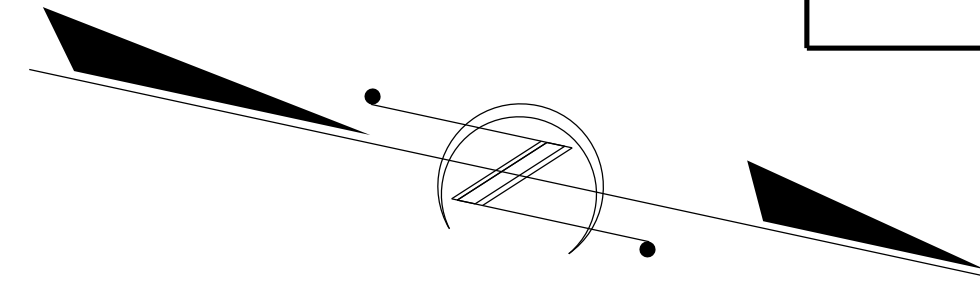
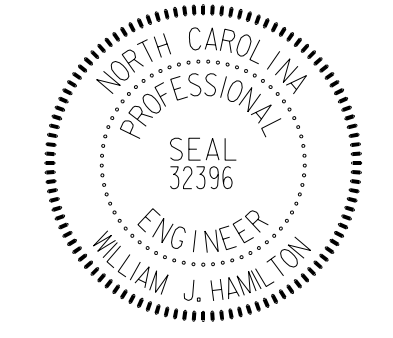
SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW
	UK BICYCLE STRAIGHT ARROW
	UL BICYCLE CHAR.
	UT U-TURN ARROW



SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW
	UE COMBO. RIGHT/STRAIGHT ARROW
	UD COMBO. LEFT/STRAIGHT ARROW
	UK BICYCLE STRAIGHT ARROW
	UL BICYCLE CHAR.

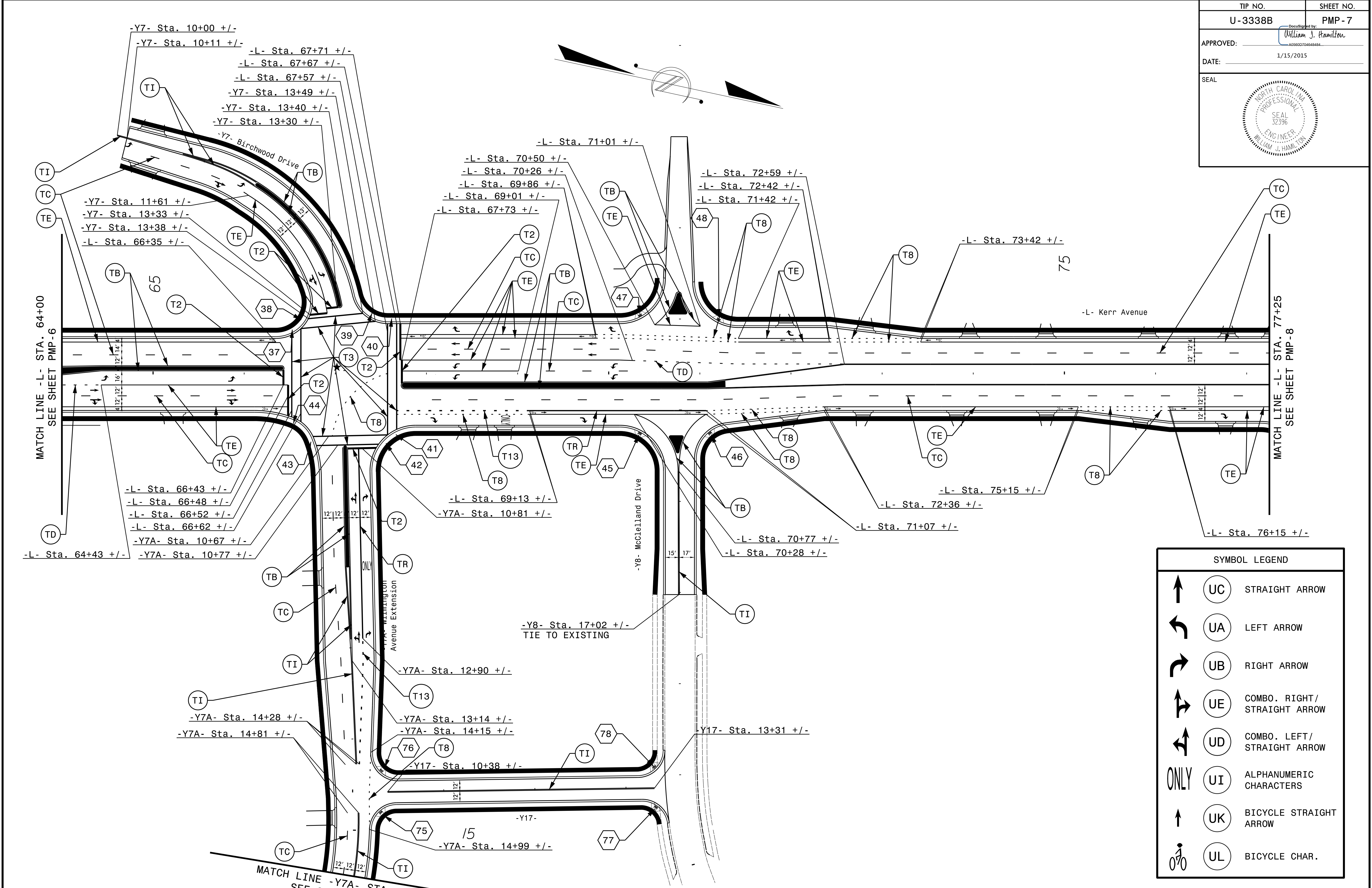






SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW
	UI ALPHANUMERIC CHARACTERS
	UK BICYCLE STRAIGHT ARROW
	UL BICYCLE CHAR.

TIP NO.	SHEET NO.
U-3338B	PMP-7
APPROVED:	William J. Hamilton Professional Engineer No. 32396
DATE:	1/15/2015
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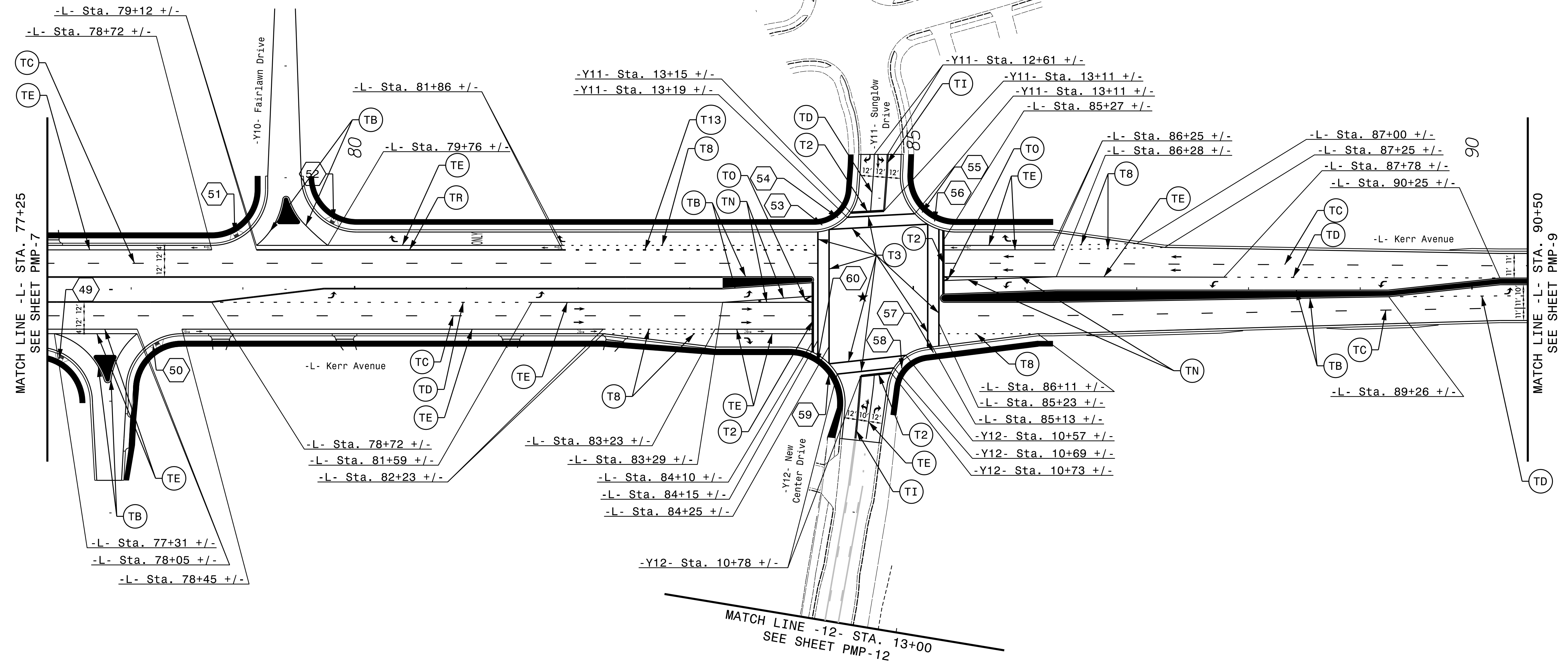
SYMBOL LEGEND	
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	UA LEFT ARROW
	UB RIGHT ARROW
	UE COMBO. RIGHT/STRAIGHT ARROW
	UD COMBO. LEFT/STRAIGHT ARROW
	UI ALPHANUMERIC CHARACTERS
	UK BICYCLE STRAIGHT ARROW
	UL BICYCLE CHAR.


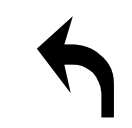
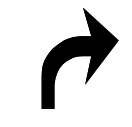
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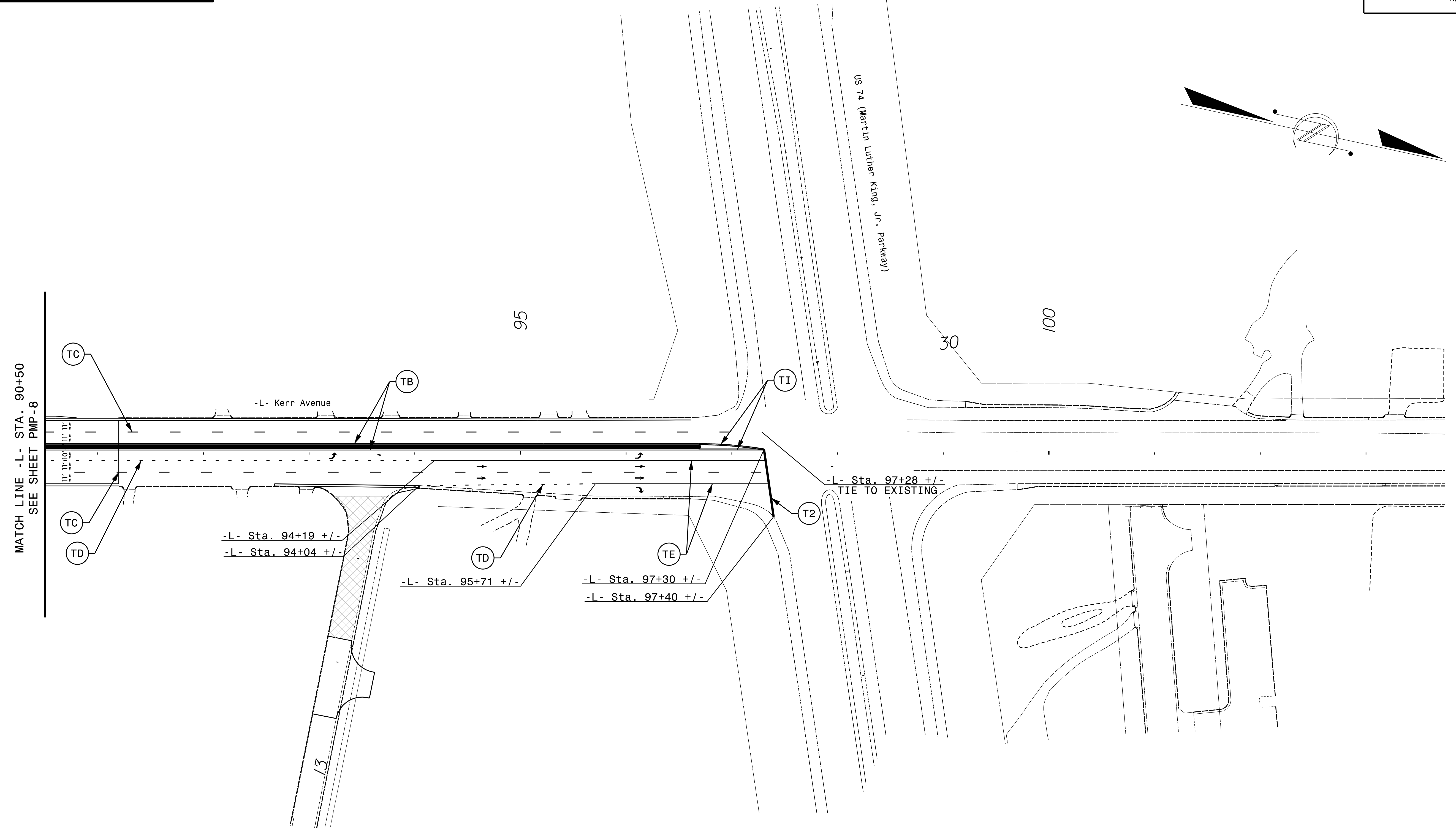
**RAMEY KEMP & ASSOCIATES, INC.**  
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 Raleigh, North Carolina 27609  
 919-872-2115 Tel, 919-872-5416 Fax  
 www.rameykemp.com


**PAVEMENT MARKING DETAIL**





SYMBOL LEGEND	
	<b>UC</b> STRAIGHT ARROW
	<b>UA</b> LEFT ARROW
	<b>UB</b> RIGHT ARROW
	<b>UD</b> COMBO. LEFT/ STRAIGHT ARROW
	<b>UK</b> BICYCLE STRAIGHT ARROW
	<b>UL</b> BICYCLE CHAR.

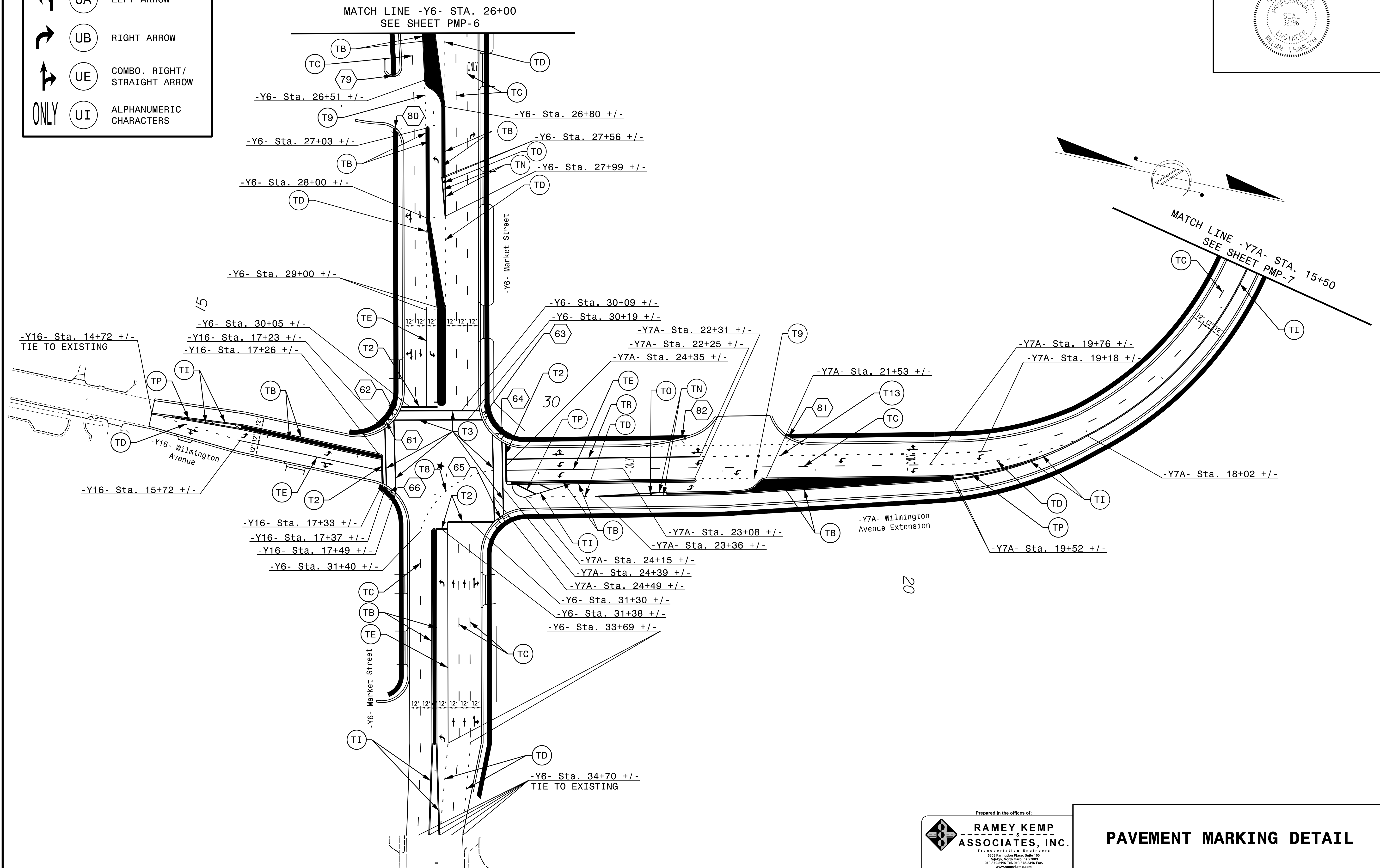


SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW



TIP NO. U-3338B	SHEET NO. PMP-10
APPROVED: <i>William J. Hamilton</i>	DATE: 1/15/2015
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SYMBOL LEGEND	
	UC STRAIGHT ARROW
	UA LEFT ARROW
	UB RIGHT ARROW
	UE COMBO. RIGHT / STRAIGHT ARROW
ONLY	UI ALPHANUMERIC CHARACTERS



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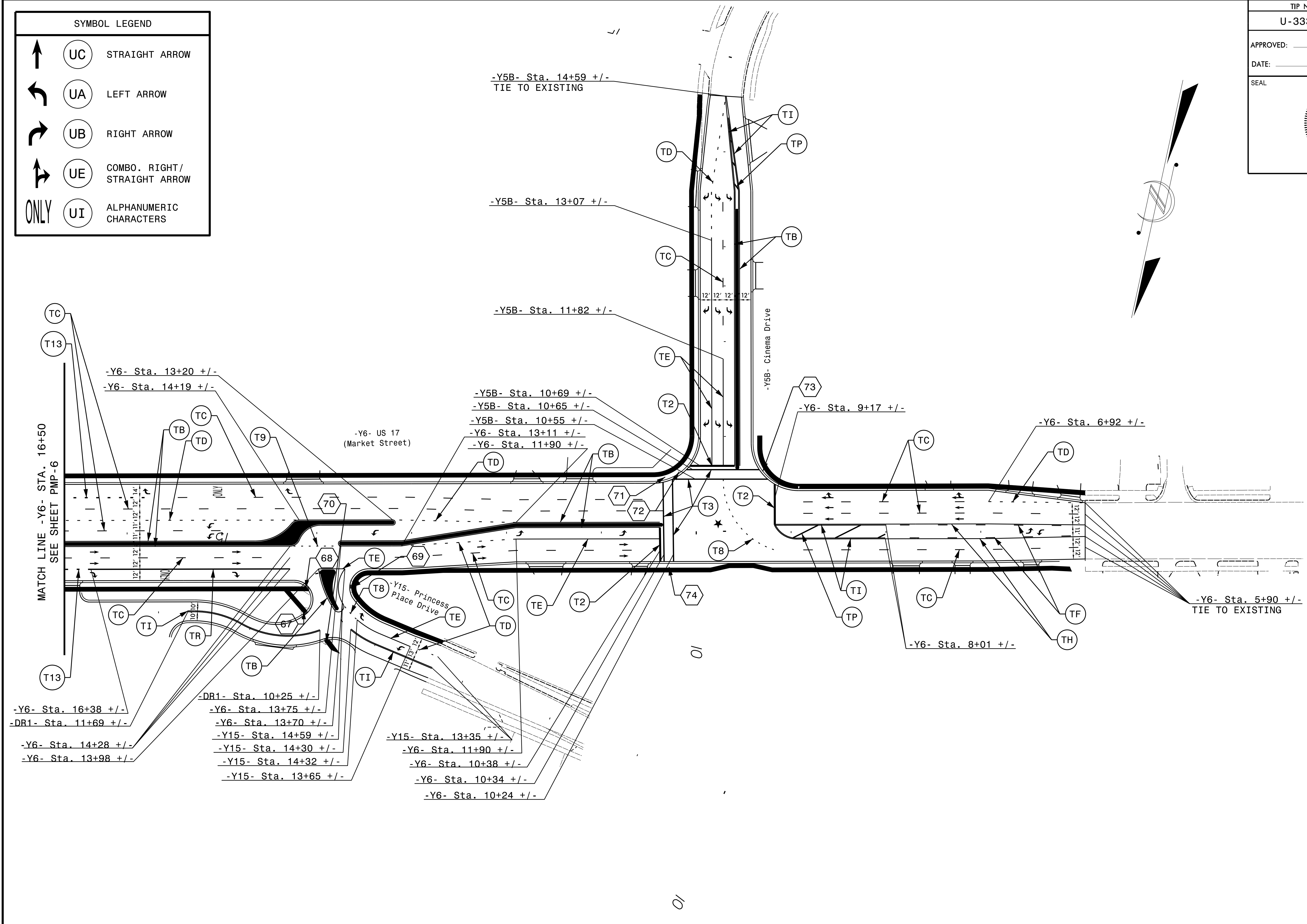


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**PAVEMENT MARKING DETAIL**

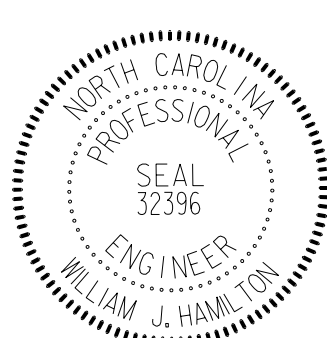
SYMBOL LEGEND		
	UC	STRAIGHT ARROW
	UA	LEFT ARROW
	UB	RIGHT ARROW
	UE	COMBO. RIGHT/ STRAIGHT ARROW
<b>ONLY</b>	UI	ALPHANUMERIC CHARACTERS

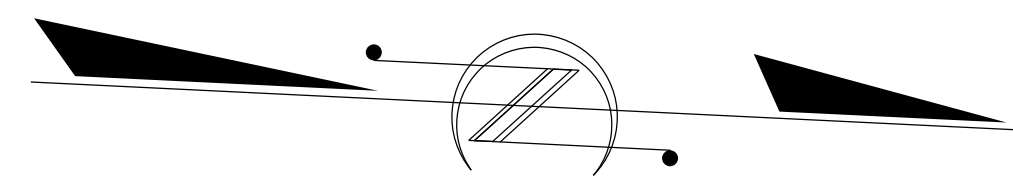
TIP NO.	SHEET NO.
U-3338B	PMP-11
APPROVED:	DocuSigned by: <i>William J. Hamilton</i> A0680D704648484
DATE:	1/15/2015
SEAL	



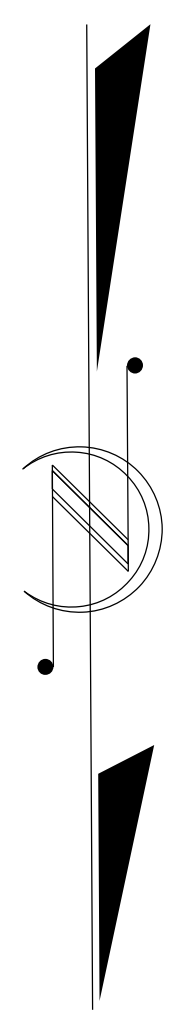
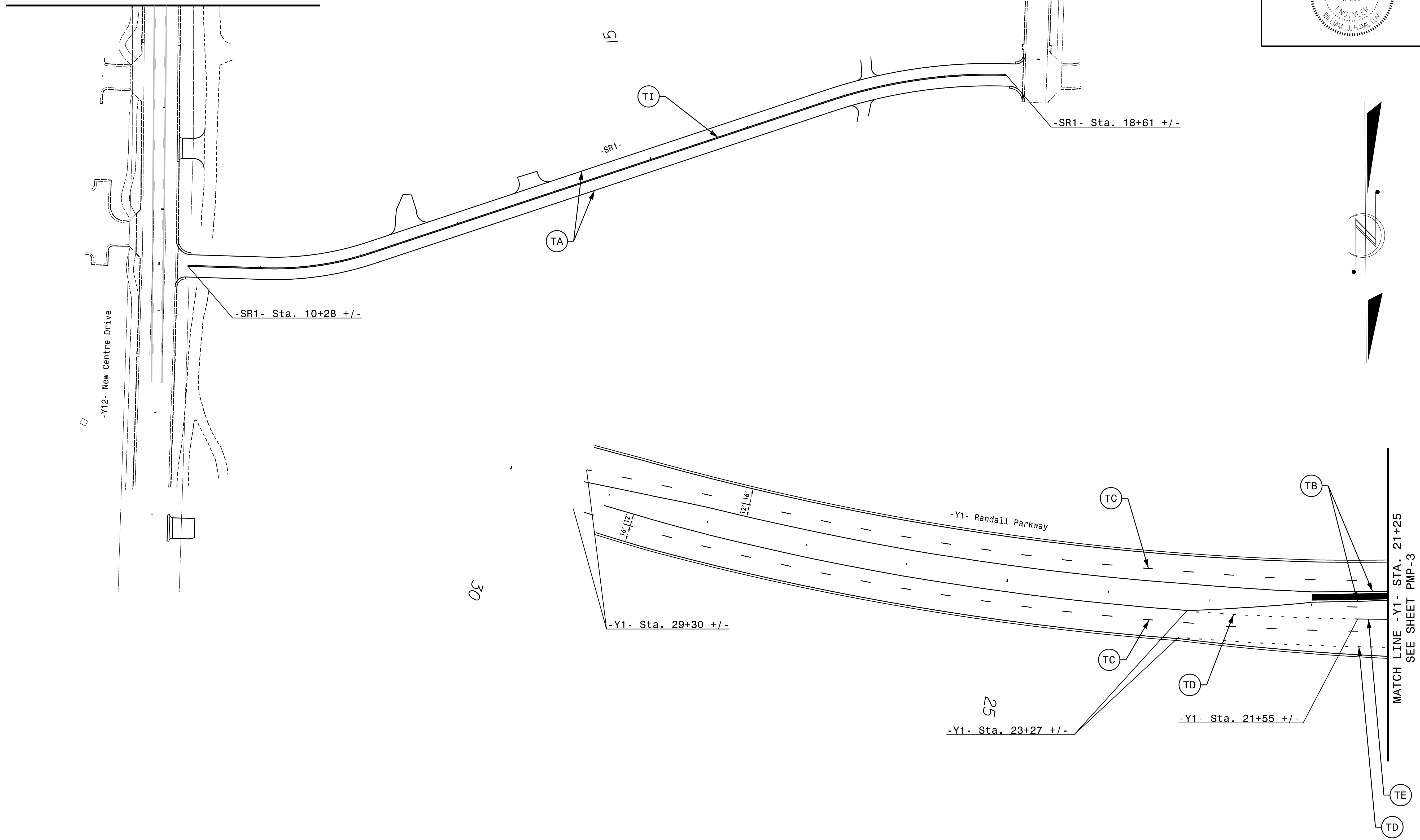
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**PAVEMENT MARKING DETAIL**

TIP NO. <b>U-3338B</b>	SHEET NO. <b>PMP-12</b>
APPROVED: <i>Jason Hamilton, PE</i> <small>A05607046484</small>	
DATE: 12/10/2014	
SEAL	
	



MATCH LINE -Y12- STA. 13+00  
SEE SHEET PMP-8



Prepared in the offices of:



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**PAVEMENT MARKING DETAIL**