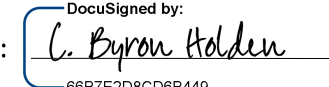
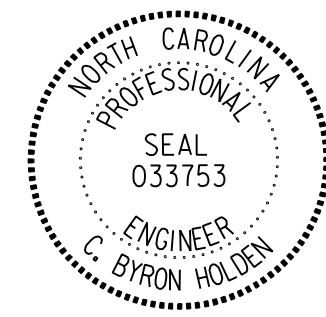


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**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

PROJECT REFERENCE NO. U-5315 A&B	SHEET NO. PMP-1
APPROVED:  DATE: 11/11/2017	
	
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**PAVEMENT MARKING PLAN**  
**LOCATION: MORRISVILLE PARKWAY EXTENSION AND NC 540 INTERCHANGE**  
**FROM WEST OF HIGHCROFT DRIVE TO EAST OF MILLS PARK DRIVE IN CARY**  
**WAKE COUNTY**

**T.I.P.: U-5315 A&B**

**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:

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
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

**INDEX**

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN INDEX OF SHEETS, ROADWAY STANDARD DRAWINGS, GENERAL NOTES AND FINAL PAVEMENT MARKING SCHEDULE
PMP-1A	1205D08, SHEET 3 OF 8 PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
PMP-2-8	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:

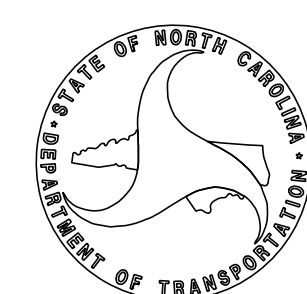
ROAD NAME	MARKING	MARKER
NC 540	POLYUREA, (HRE)	SNOWPLOWABLE RAISED REFLECTIVE
LOOPS AND RAMP	THERMOPLASTIC	SNOWPLOWABLE RAISED REFLECTIVE
-L- MORRISVILLE PARKWAY	THERMOPLASTIC	RAISED REFLECTIVE
-L- MORRISVILLE PARKWAY BRIDGE	POLYUREA, (HRE)	RAISED REFLECTIVE
-Y1- TWYLA ROAD	THERMOPLASTIC	RAISED REFLECTIVE
  - B) ON ASPHALT SURFACES, INSTALL HEATED-IN-PLACE THERMOPLASTIC OR EXTRUDED THERMOPLASTIC MARKINGS FOR STOP BARS, SYMBOLS, CROSSWALKS AND DIAGONAL.
  - C) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
  - D) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
  - E) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
  - F) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
  - G) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED TYPE II PAVEMENT MARKING MATERIAL.
  - H) 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.
  - I) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

**FINAL PAVEMENT MARKING SCHEDULE**

T2	WHITE STOP BAR (24", 120 MIL)	
T3	WHITE CROSSWALK LINE (24", 120 MIL)	
T6	WHITE EDGELINE (6", 90 MIL)	
T7	YELLOW EDGELINE (6", 90 MIL)	
T8	2 FT. - 6 FT./SP WHITE MINISKIP (4", 120 MIL)	
T17	3 FT. - 3 FT./SP WHITE MINISKIP (8", 120 MIL)	
TA	WHITE EDGELINE (4", 90 MIL)	
TB	YELLOW EDGELINE (4", 90 MIL)	
TD	3 FT. - 9 FT./SP WHITE MINISKIP (4", 120 MIL)	
TE	WHITE SOLID LANE LINE (4", 120 MIL)	
TI	YELLOW DOUBLE CENTER (4", 120 MIL)	
TK	3 FT. - 9 FT./SP WHITE MINISKIP (6", 120 MIL)	
TL	WHITE SOLID LANE LINE (6", 120 MIL)	
TN	WHITE GORELINE (8", 90 MIL)	
TP	YELLOW DIAGONAL (8", 90 MIL)	
TR	WHITE SOLID LANE LINE (8", 120 MIL)	
TS	WHITE GORELINE (12", 90MIL)	
TT	WHITE SOLID LANE LINE (12", 120 MIL)	
UA	LEFT TURN ARROW (90 MIL)	
UB	RIGHT TURN ARROW (90 MIL)	
UC	STRAIGHT ARROW (90 MIL)	
UD	COMBO. LEFT/STRAIGHT ARROW (90 MIL)	
UN	24" YIELD LINE TRIANGLE (90 MIL)	
UP	MERGE ARROW (90 MIL)	
UU	FISH-HOOK STRAIGHT ARROW (90 MIL)	
UZ	FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL)	
YA	FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL)	
POLYUREA (HRE)		
V5	10 FT. BLACK SKIP (6")	
V6	WHITE EDGELINE (6")	
V7	YELLOW EDGELINE (6")	
VA	WHITE EDGELINE (4")	
VI	YELLOW DOUBLE CENTER (4")	
VJ	10 FT. WHITE SKIP (6")	
VK	3 FT. - 9 FT./SP WHITE MINISKIP (6")	
VS	WHITE GORELINE (12")	
VT	WHITE SOLID LANE LINE (12")	
PAVEMENT MARKERS		
MA	PERMANENT RAISED MARKER	YELLOW & YELLOW
MB	PERMANENT RAISED MARKER	CRYSTAL & RED
MC	PERMANENT RAISED MARKER	YELLOW & RED
MF	SNOWPLOWABLE MARKER	CRYSTAL & RED

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

A. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER  
M. EATON, PE SIGNING & DELINEATION DESIGN ENGINEER

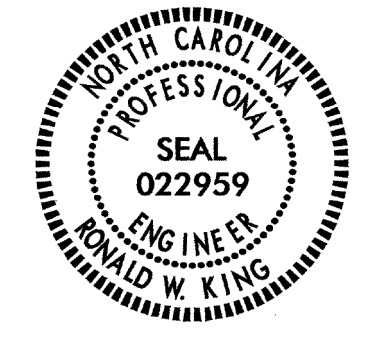


**PLAN PREPARED BY: RK&K**

C. B. HOLDEN, PE PROJECT MANAGER  
K. W. BISBY, PE SENIOR PROJECT ENGINEER  
M. A. COLE SENIOR DESIGNER



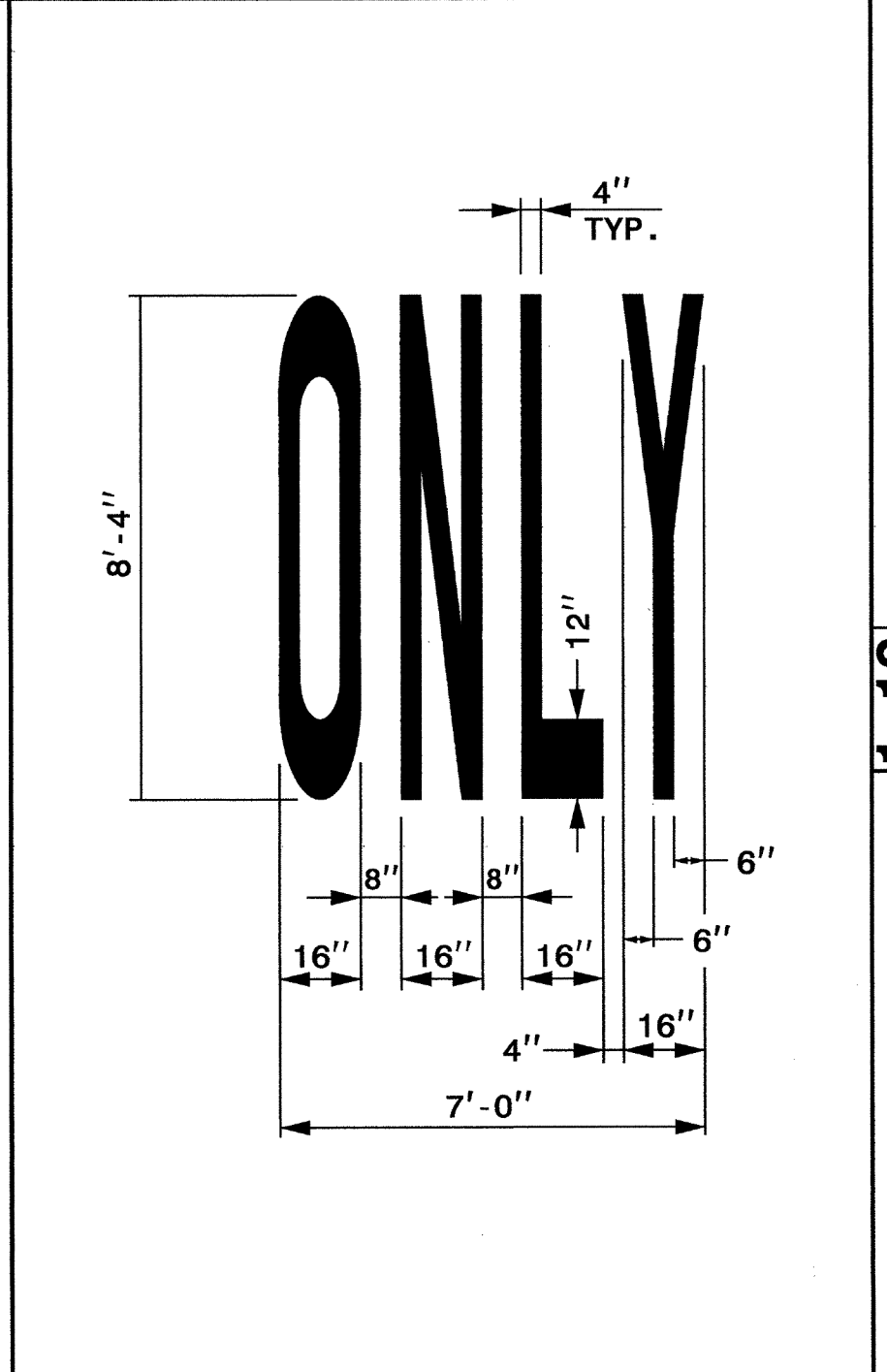
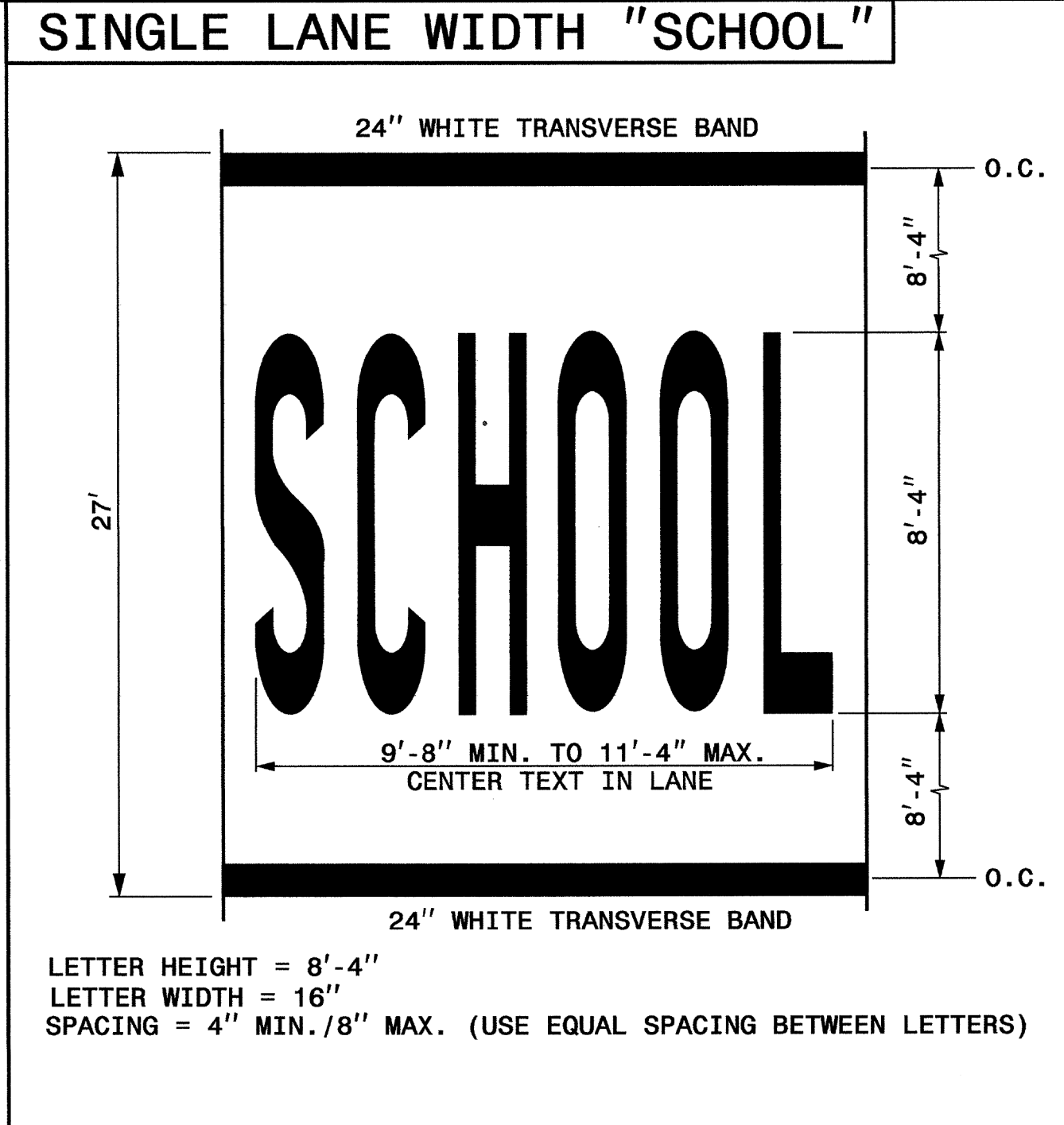
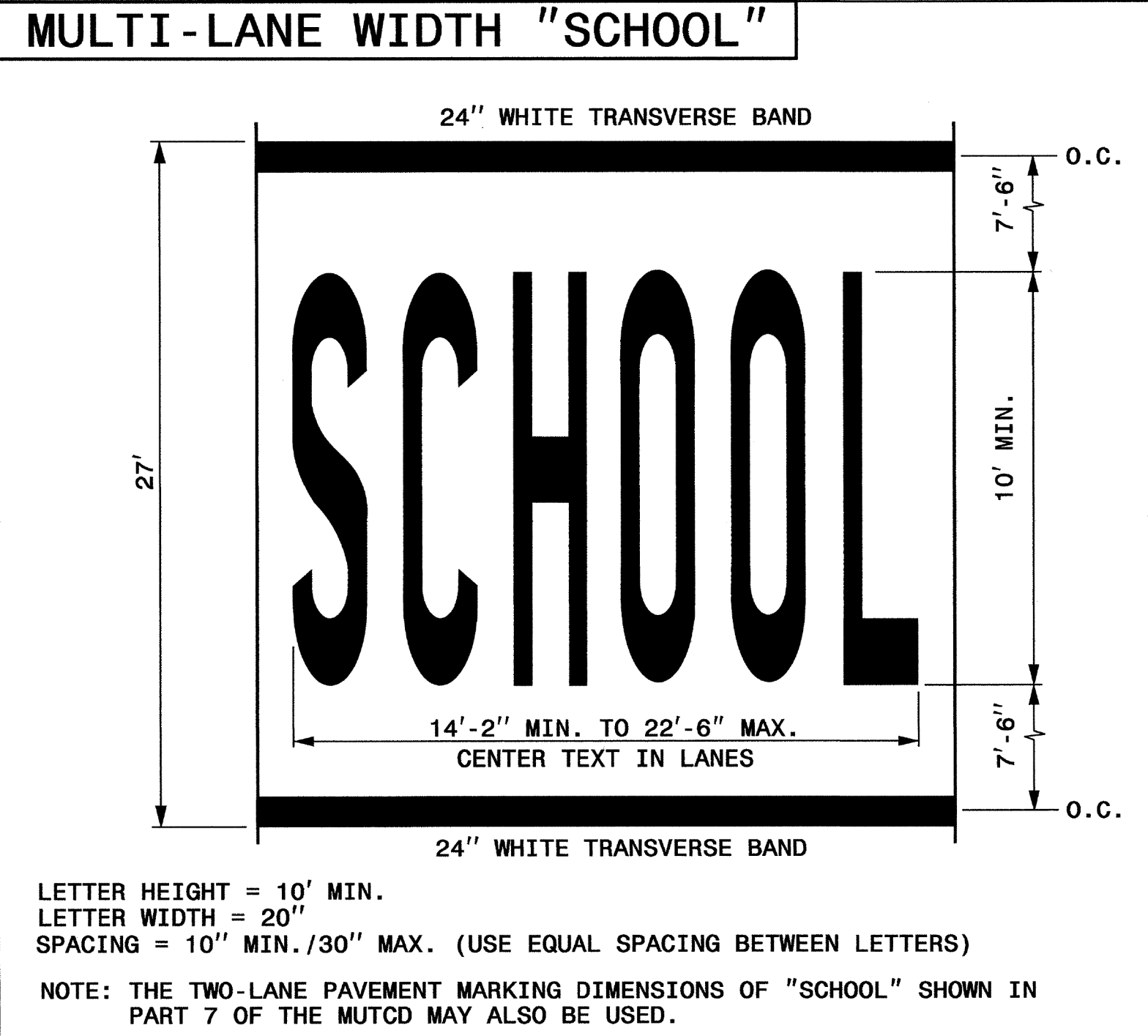


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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
PAVEMENT MARKINGS  
SYMBOLS AND WORD MESSAGES

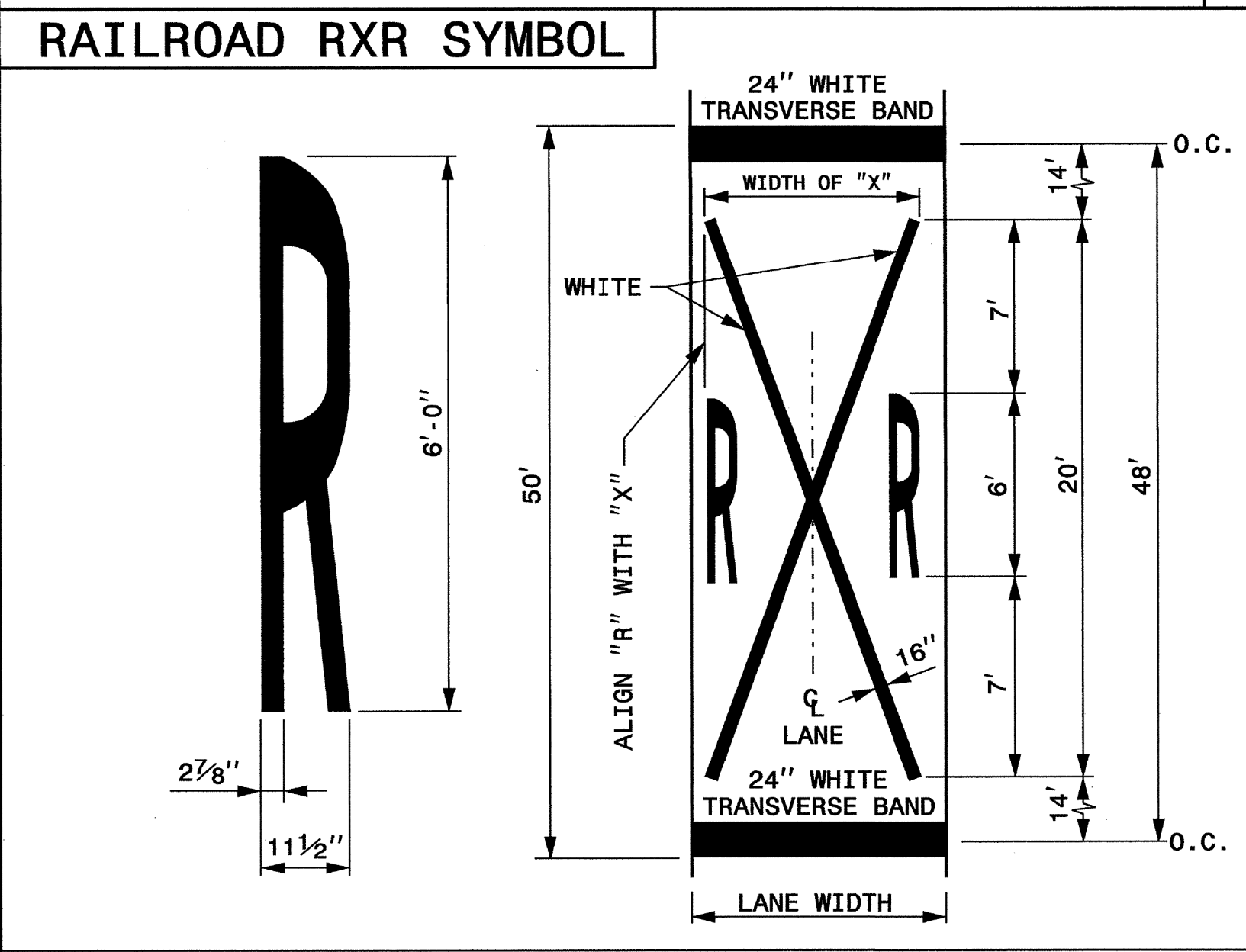
SHEET 3 OF 8  
**1205D08**



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ENGLISH DETAIL DRAWING FOR  
PAVEMENT MARKINGS  
SYMBOLS AND WORD MESSAGES

SHEET 3 OF 8  
**1205D08**


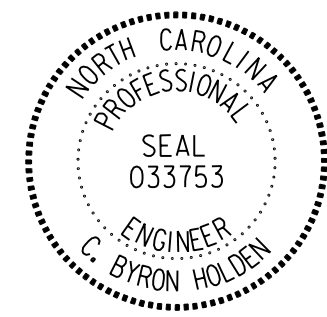


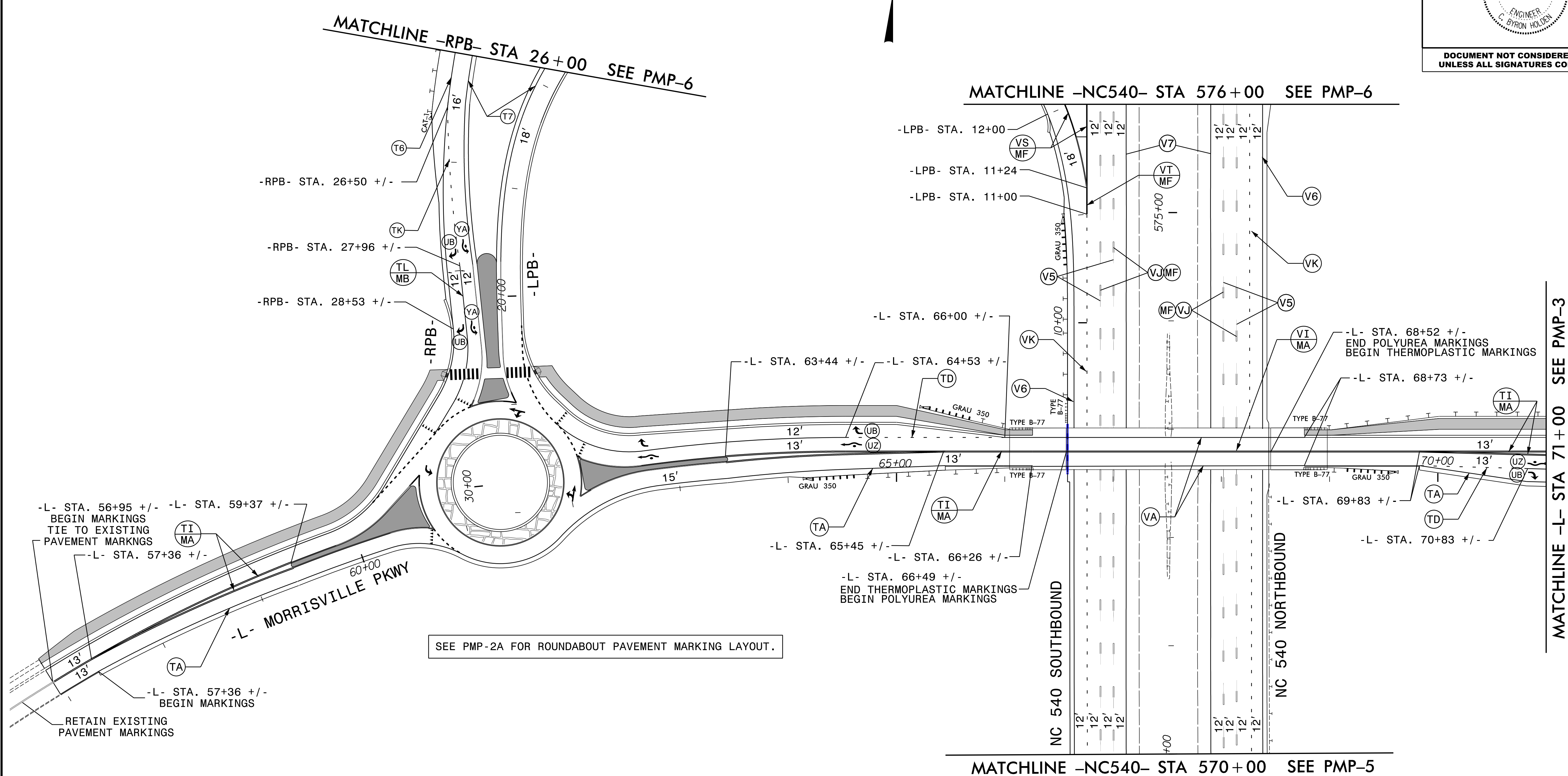
LANE WIDTH (FEET)	WIDTH OF "X" (FEET)
8' ≤ W ≤ 9'	7'
9' < W ≤ 12'	8'
W > 12'	10'

- GENERAL NOTES:
- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
  - 2- PAVEMENT MARKING IN ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF TWO (2) CHARACTERS AND TWO (2) 16" LINES (FORMING AN X) WHICH ARE PAID FOR UNDER TWO SEPARATE PAY ITEMS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.11 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

**REVISED PAVEMENT MARKING  
ROADWAY STANDARD DRAWING**

08-MAR-2012 12:18  
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TIP NO.	SHEET NO.
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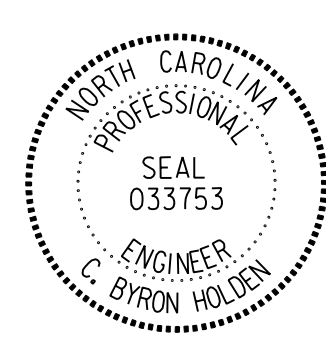
**RK&K**

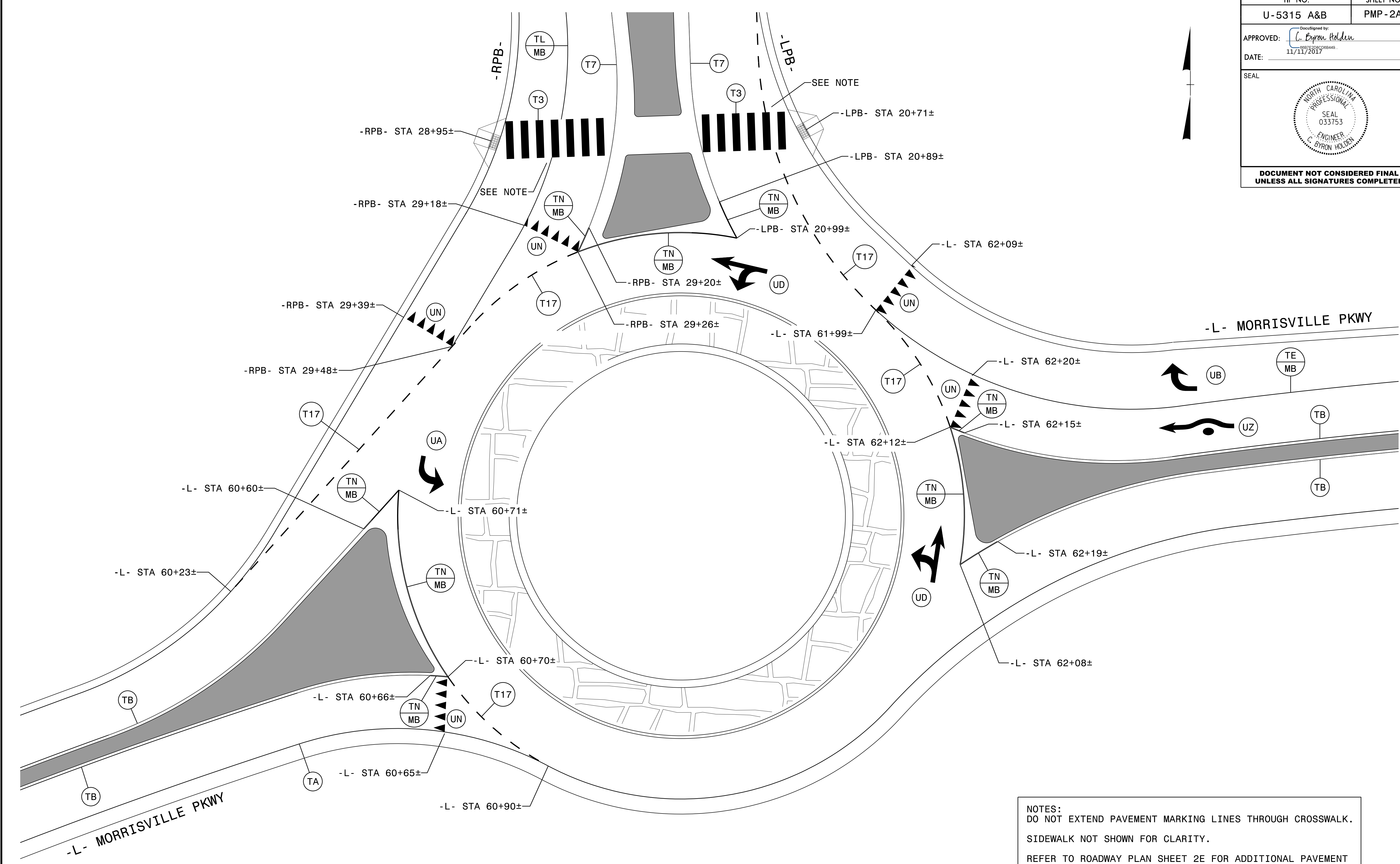
RUMMEL, KLEPPER & KAHL, LLP  
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 RALEIGH, NORTH CAROLINA 27609  
 NC LICENSE NO. F-0112  
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**PAVEMENT MARKING DETAIL**

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APPROVED: <i>C. Byron Holden</i> 11/11/2017	
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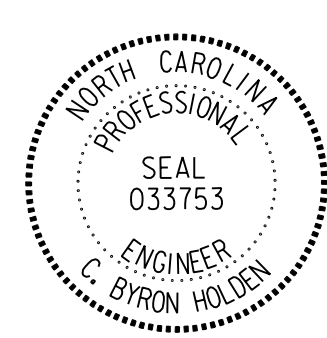


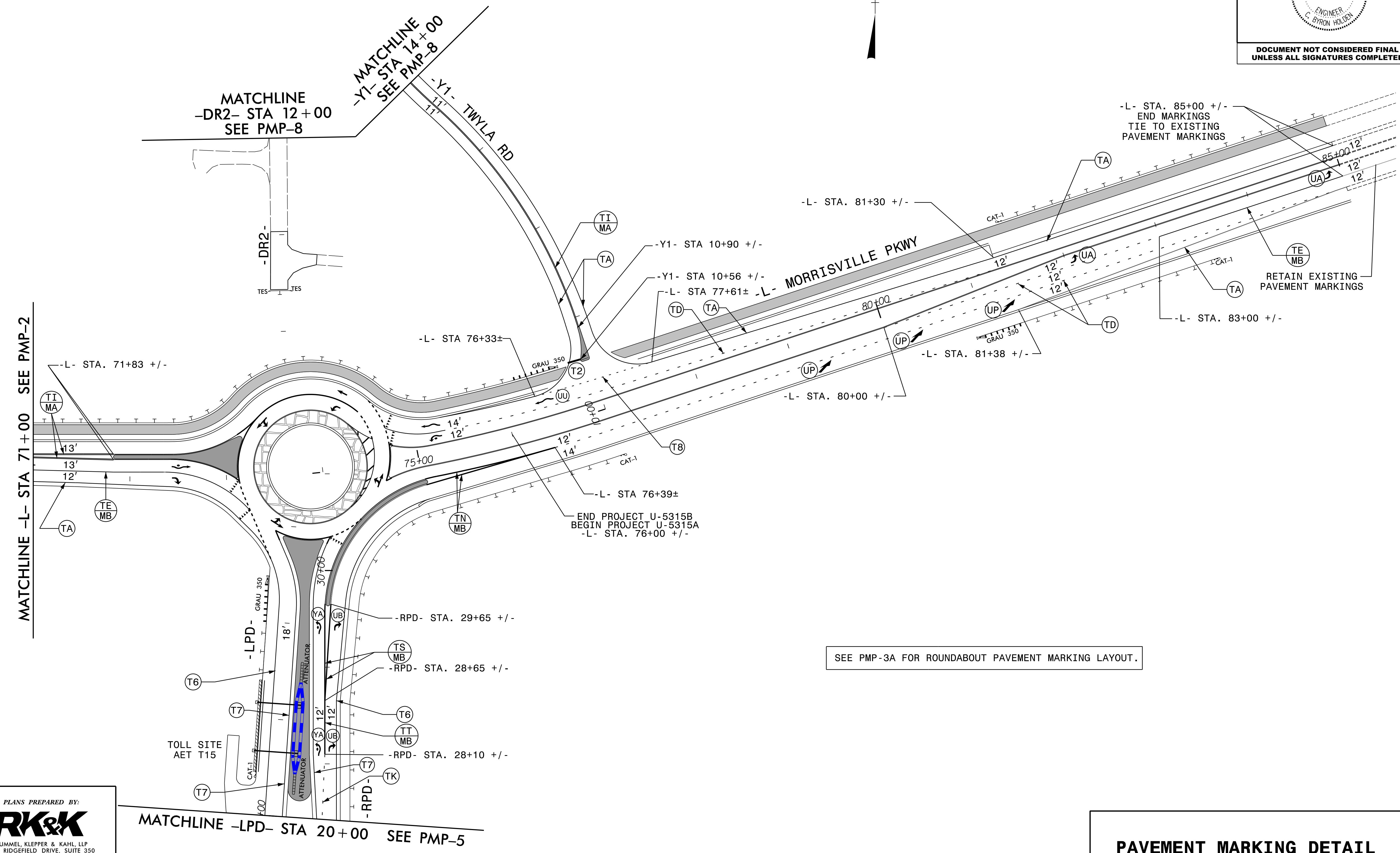
NOTES:  
 DO NOT EXTEND PAVEMENT MARKING LINES THROUGH CROSSWALK.  
 SIDEWALK NOT SHOWN FOR CLARITY.  
 REFER TO ROADWAY PLAN SHEET 2E FOR ADDITIONAL PAVEMENT MARKING LAYOUT GUIDANCE AND LANE WIDTHS.

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**PAVEMENT MARKING DETAIL**

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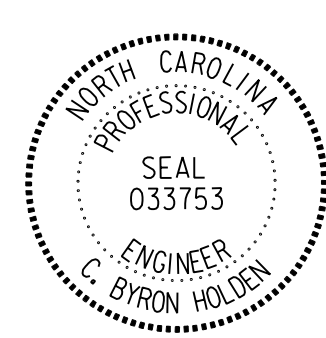
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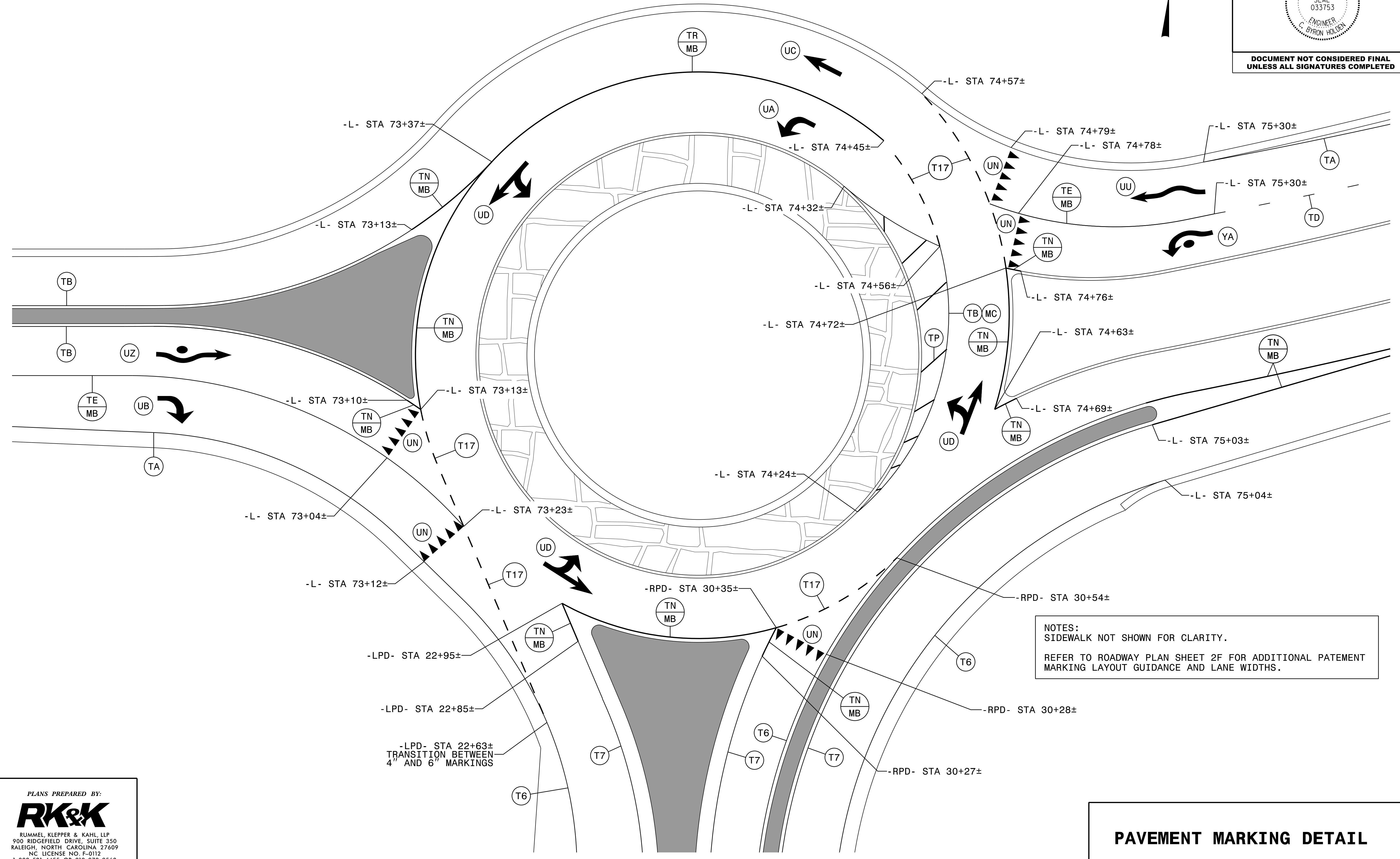
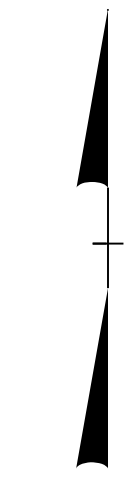
**RK&K**

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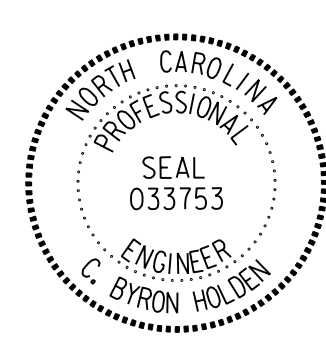


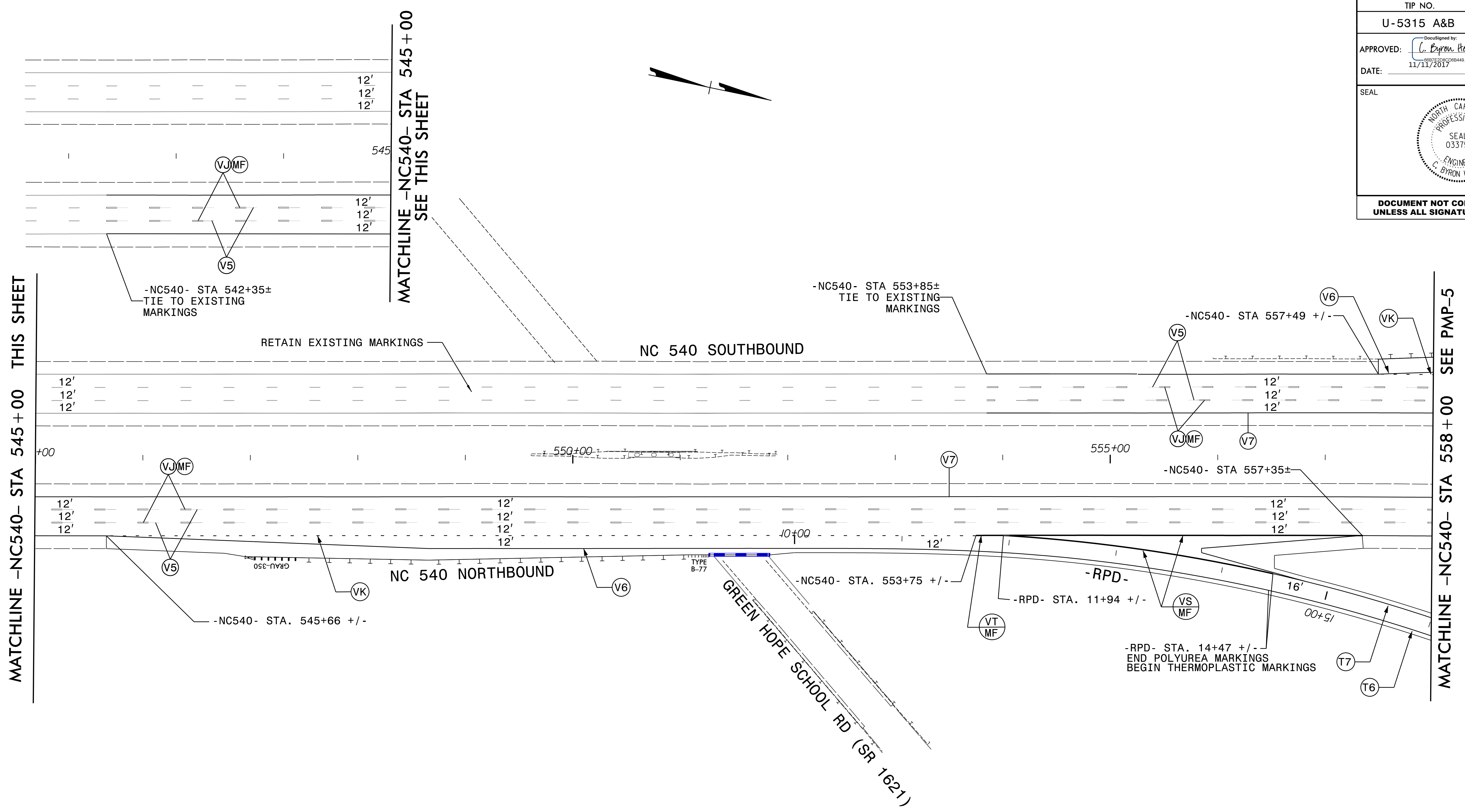
NOTES:  
 SIDEWALK NOT SHOWN FOR CLARITY.  
 REFER TO ROADWAY PLAN SHEET 2F FOR ADDITIONAL PAVEMENT  
 MARKING LAYOUT GUIDANCE AND LANE WIDTHS.

**PAVEMENT MARKING DETAIL**

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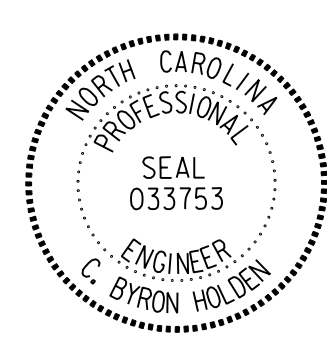


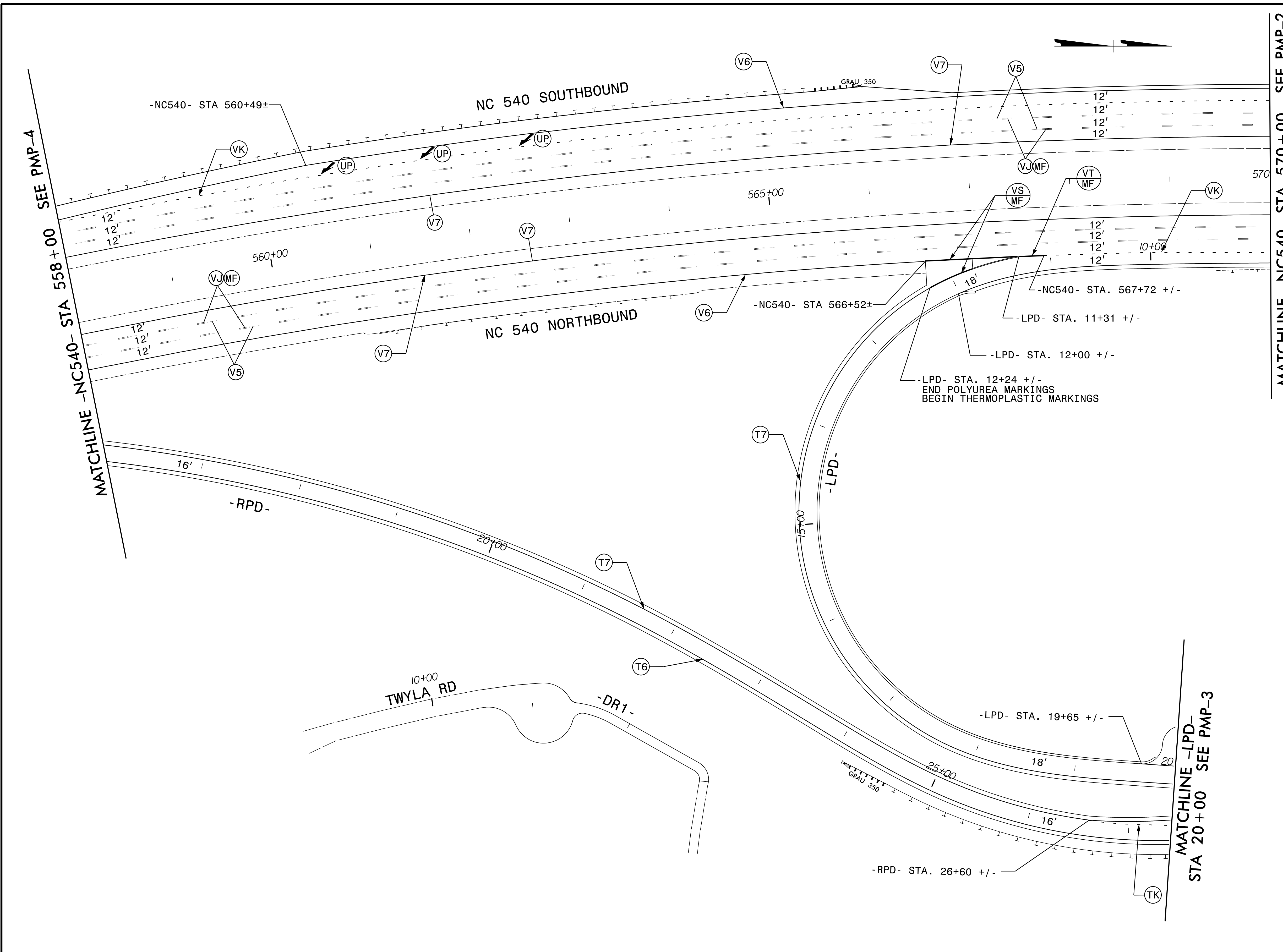
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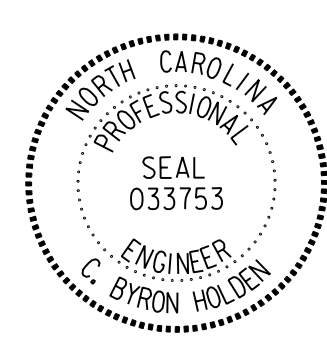


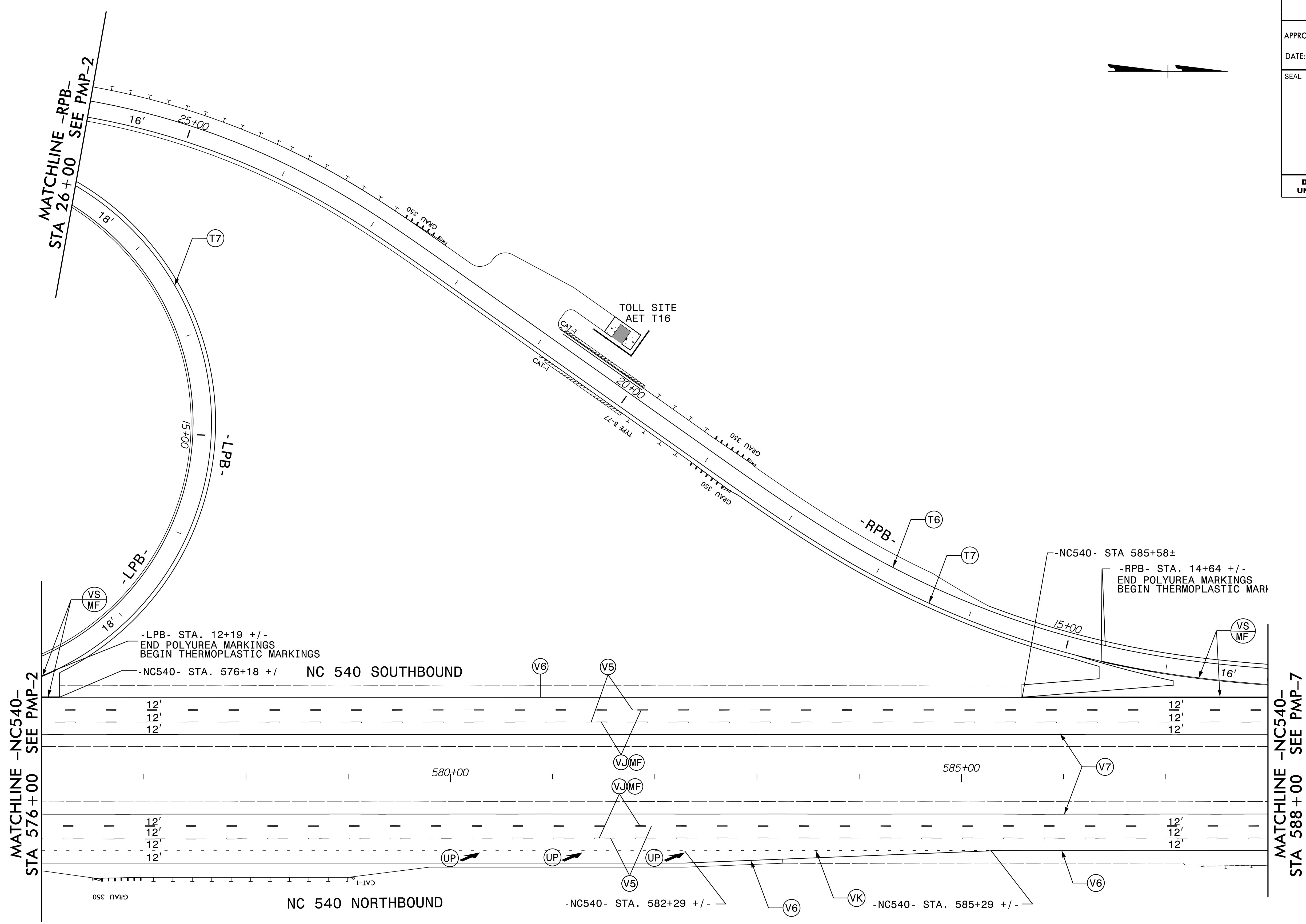
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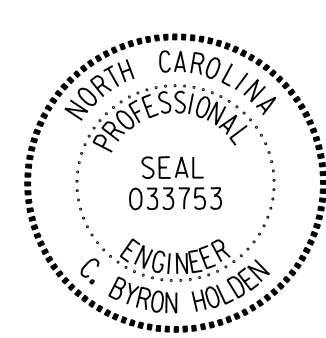
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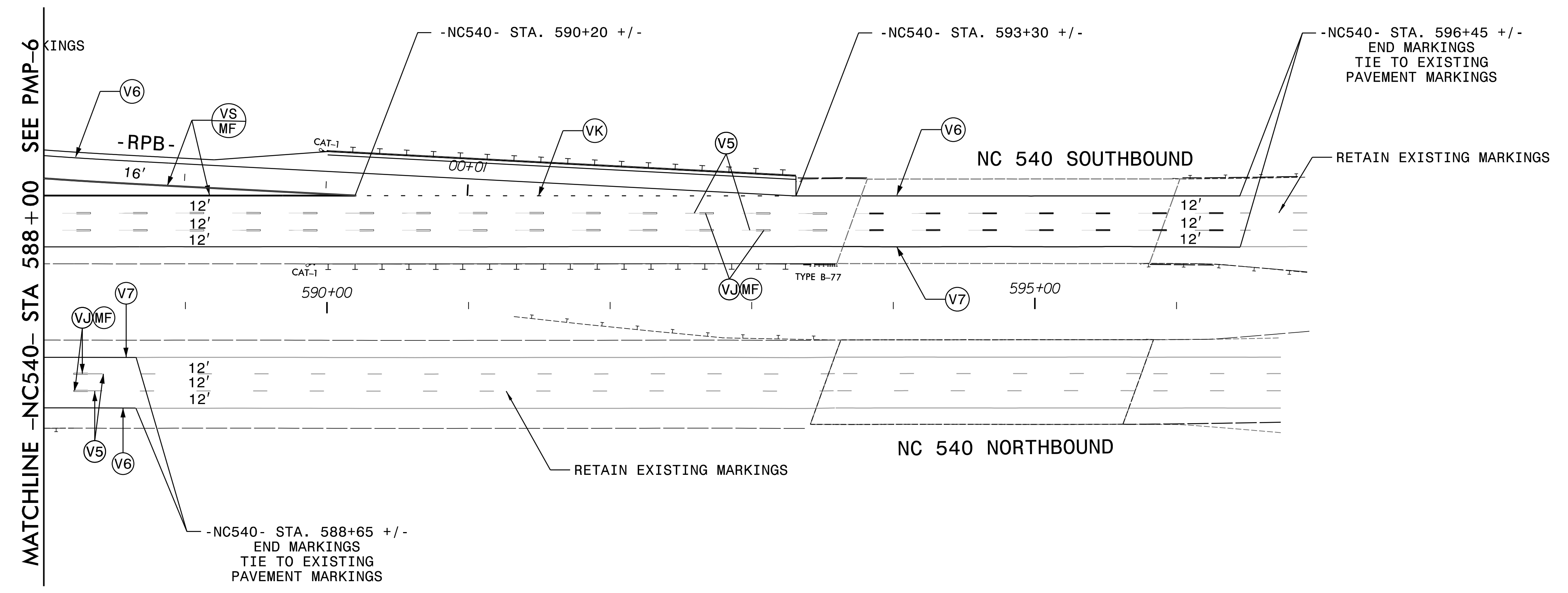
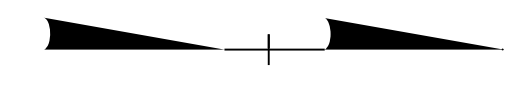


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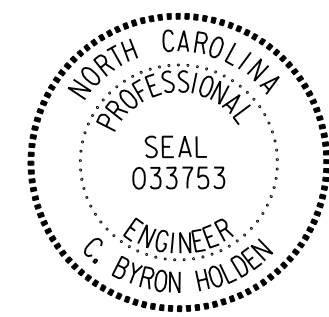
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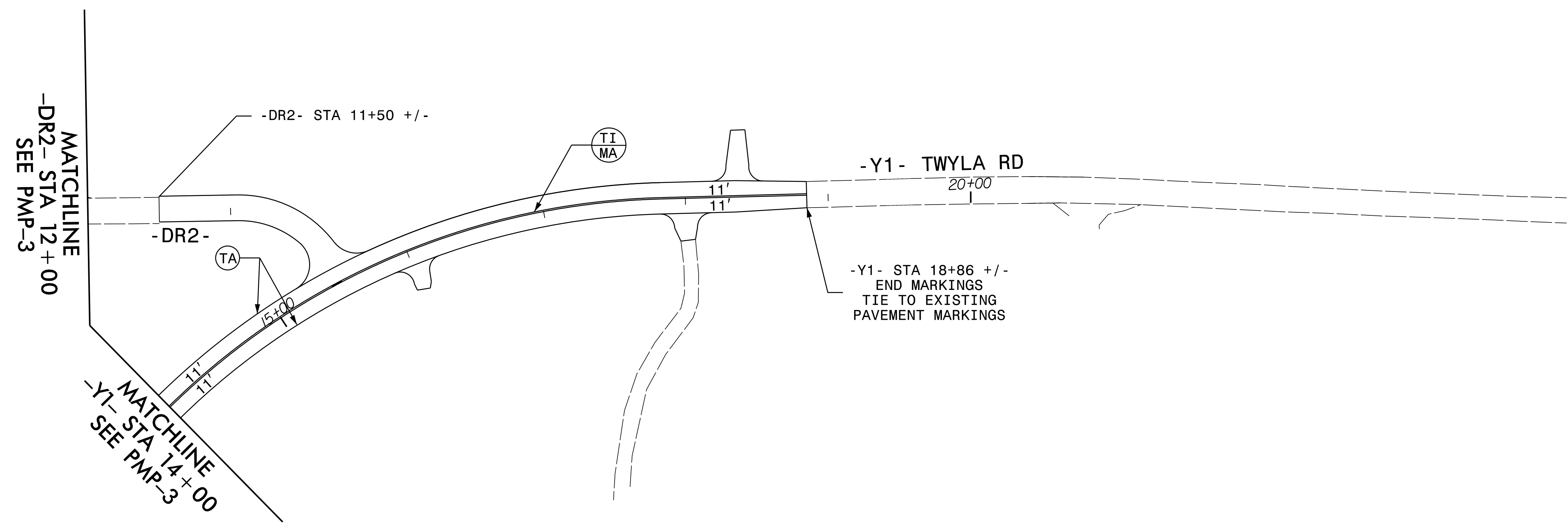
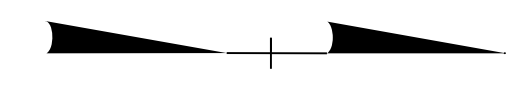
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