

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION



TIP NO. R-2519A	SHEET NO. PMP-1
APPROVED: <i>Ronda B. Early</i>	
DATE: 12-29-10	
SEAL	

**PAVEMENT MARKING PLAN**  
**YANCEY COUNTY**

LOCATION: US 19 E FROM EAST OF SR 1336 (JACKS CREEK ROAD) TO SR 1186 (OLD US 19)

**ROADWAY STANDARD DRAWINGS**

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
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTI LANE ROADWAYS
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
1253.01	SNOWPLOWABLE RAISED PAVEMENT MARKERS
1261.01	GUARDRAIL AND BARRIER DELINEATOR SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATOR TYPES
1262.01	GUARDRAIL END DELINEATION

**INDEX**

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN COVER SHEET
PMP-1A	PAVEMENT MARKING LEGEND, SCHEDULE AND ESTIMATE
PMP-2 THRU PMP-35	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
ALL ROADS	POLYUREA	SNOWPLOWABLE

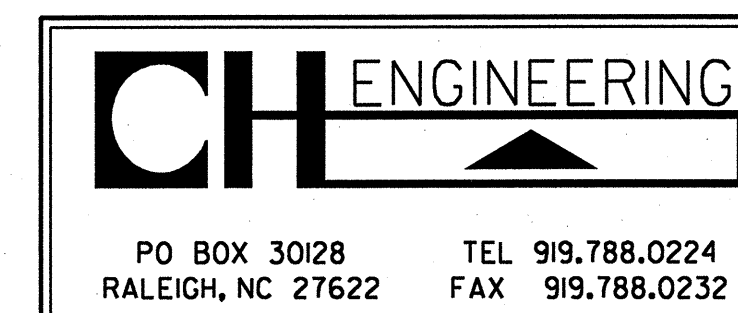
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.  
 C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.  
 D) PASSING ZONE WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.  
 E) USE HEATED IN PLACE THERMOPLASTIC OR COLD APPLIED PLASTIC PAVEMENT MARKING FOR SYMBOLS AND MARKINGS WHERE POLYUREA IS NOT PRACTICAL. (THIS IS TO BE PAID FOR AS A THERMOPLASTIC PAY ITEM.)  
 F) MARKERS ARE TO BE SPACED ACCORDING TO THE ROADWAY STANDARD DRAWINGS.  
 G) STOPBARS ARE TO BE LOCATED A MIN OF 3m FROM THE EDGE OF TRAVEL LANE UNLESS INTERSECTION IS SIGNALIZED OR AS DIRECTED OTHERWISE BY THE ENGINEER.

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

*Chris B. Howard* SIGNING & DELINEATION STANDARDS ENGINEER  
*Mark Manriquez* SIGNING & DELINEATION PROJECT DESIGN ENGINEER

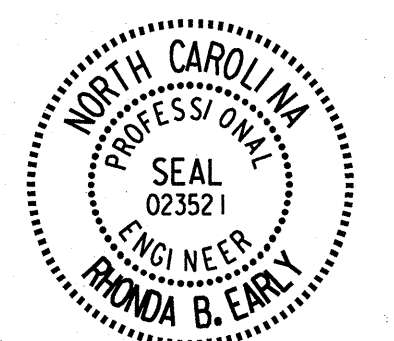
PLAN PREPARED BY: CH Engineering, PLLC

*R. B. Early, PE* PROJECT ENGINEER  
*T. R. Hepler, PE* QC ENGINEER



T.I.P.: R-2519A

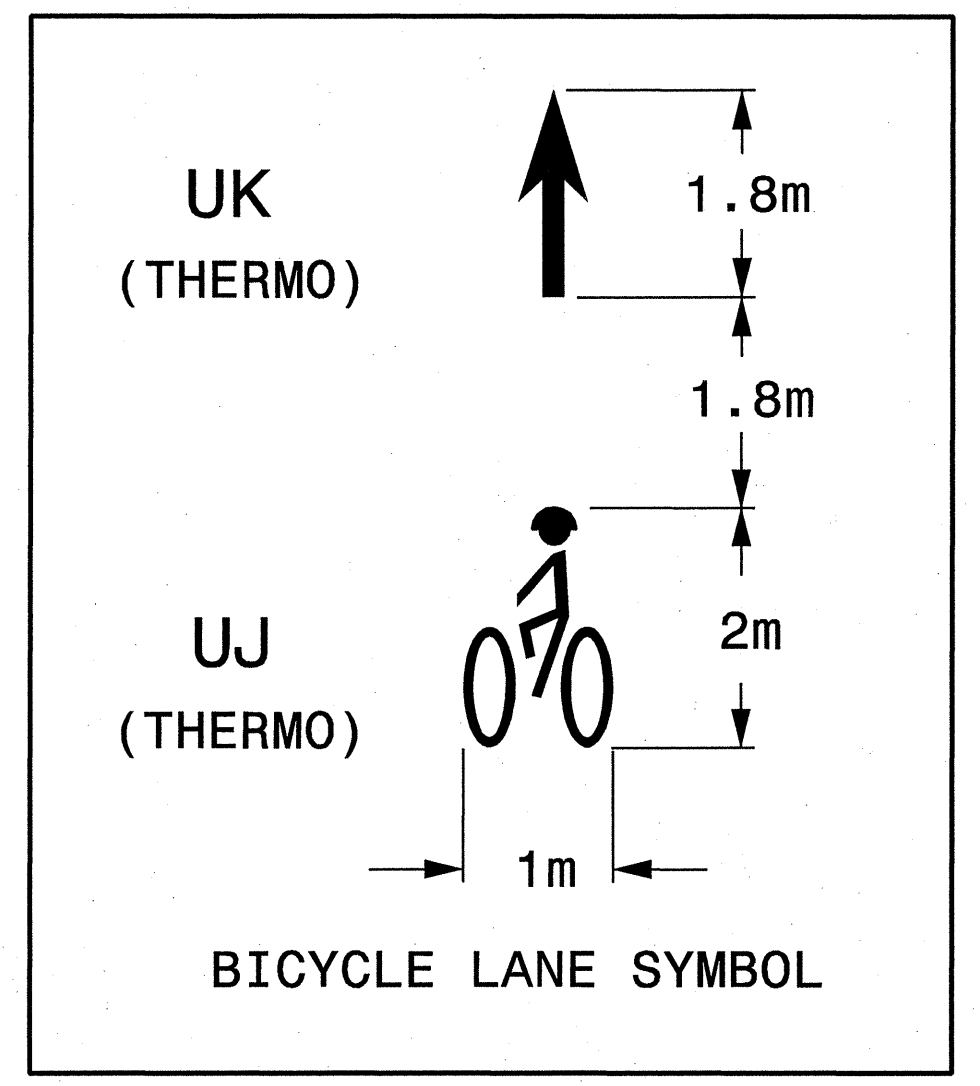
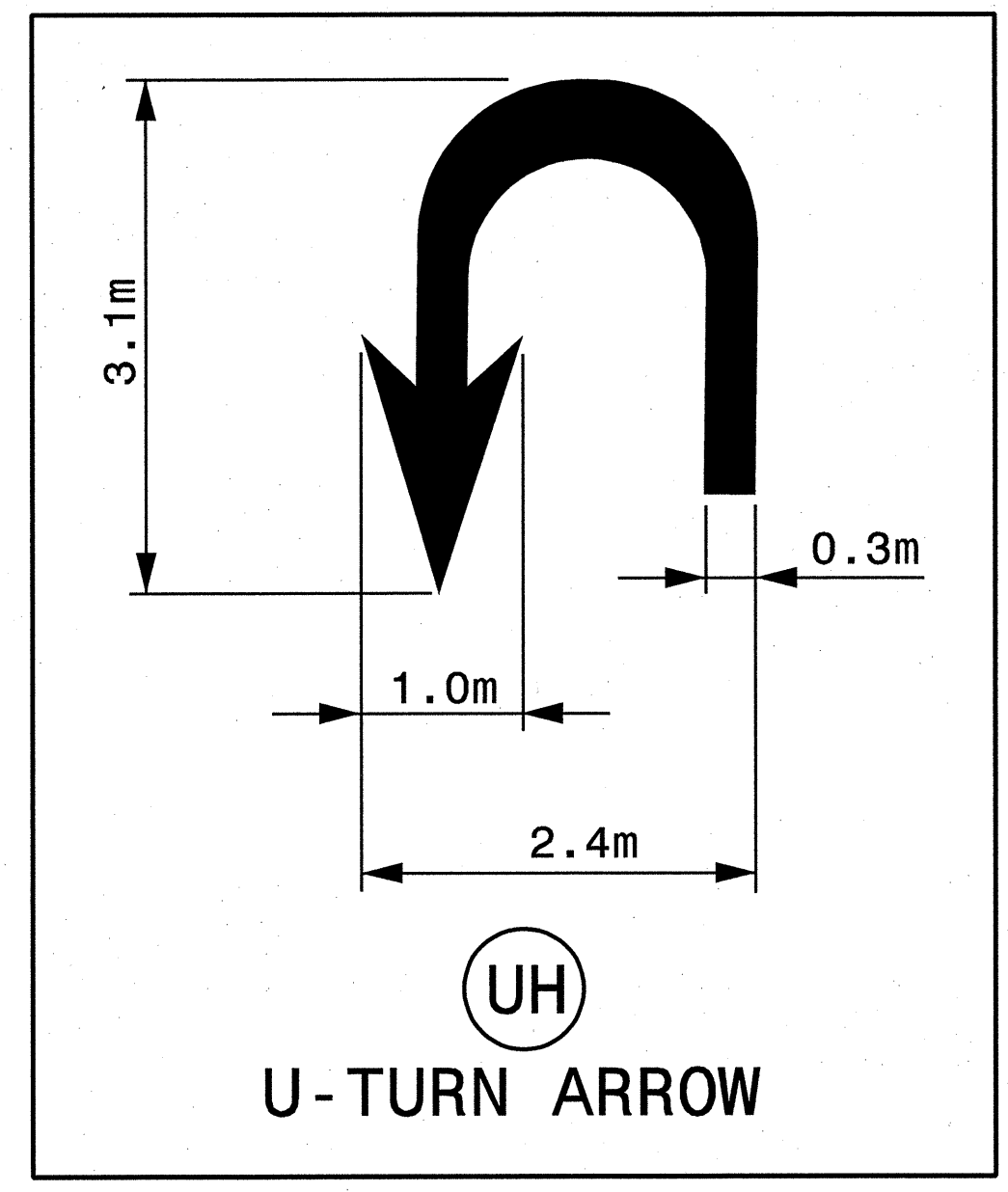
CONTRACT: 35609.1.1

TIP NO. R - 2519A	SHEET NO. PMP - 1A
APPROVED: <i>Shank S. Carley</i>	
DATE: 12-29-10	
SEAL	
	

# FINAL PAVEMENT MARKING SCHEDULE

## LEGEND

- GENERAL**
- DIRECTION OF TRAFFIC FLOW
  - NORTH ARROW
  - PROPOSED PVMT.    EXIST. PVMT.
- PAVEMENT MARKINGS**
- CRYSTAL/CRYSTAL PAVEMENT MARKER
  - YELLOW/YELLOW PAVEMENT MARKER
  - CRYSTAL/RED PAVEMENT MARKER
  - PAVEMENT MARKING SYMBOLS



MATERIAL	SYMBOL	DESCRIPTION
<b>PAVEMENT MARKING LINES</b>		
<b>POLYUREA LINES (100mm)</b>		
	V8	0.5M WHITE MINISKIP (3m SPACING)
	VA	WHITE EDGELINE
	VB	YELLOW EDGELINE
	VC	3M WHITE SKIP
	VD	0.5M WHITE MINISKIP (5m SPACING)
	VE	WHITE SOLID LANE LINE
	VI	YELLOW DOUBLE CENTER LINE

<b>PAVEMENT MARKING LINES</b>		
<b>POLYUREA LINES (200mm)</b>		
	VP	WHITE GORE LINE

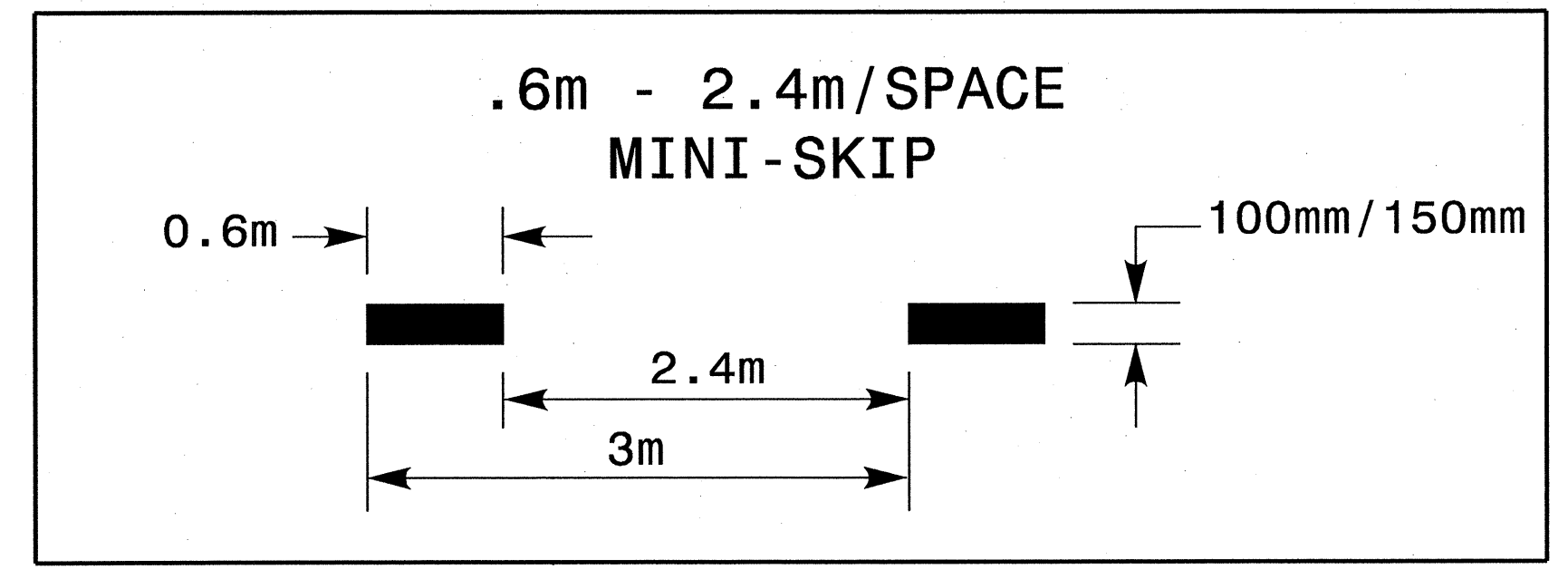
<b>THERMOPLASTIC LINES (200mm, 2.3mm)</b>		
	TQ	WHITE DIAGONAL
	TT	YELLOW DIAGONAL

<b>THERMOPLASTIC LINES (200mm, 3.1mm)</b>		
	TV	WHITE CROSSWALK

<b>THERMOPLASTIC LINES (600mm, 3.1mm)</b>		
	T2	WHITE STOPBAR

<b>THERMOPLASTIC SYMBOLS (2.3mm)</b>		
	UA	LEFT TURN ARROW
	UB	RIGHT TURN ARROW
	UC	STRAIGHT ARROW
	UE	STRAIGHT / RIGHT COMBO
	UF	LEFT / RIGHT COMBO
	UG	LEFT / STRAIGHT / RIGHT COMBO
	UH	U-TURN SYMBOL
	UJ	BICYCLE LANE SYMBOL

<b>SNOWPLOWABLE RAISED PAVEMENT MARKERS</b>		
	ME	TYPE 2 YELLOW & YELLOW
	MF	TYPE 3 CRYSTAL & RED



**CH ENGINEERING**

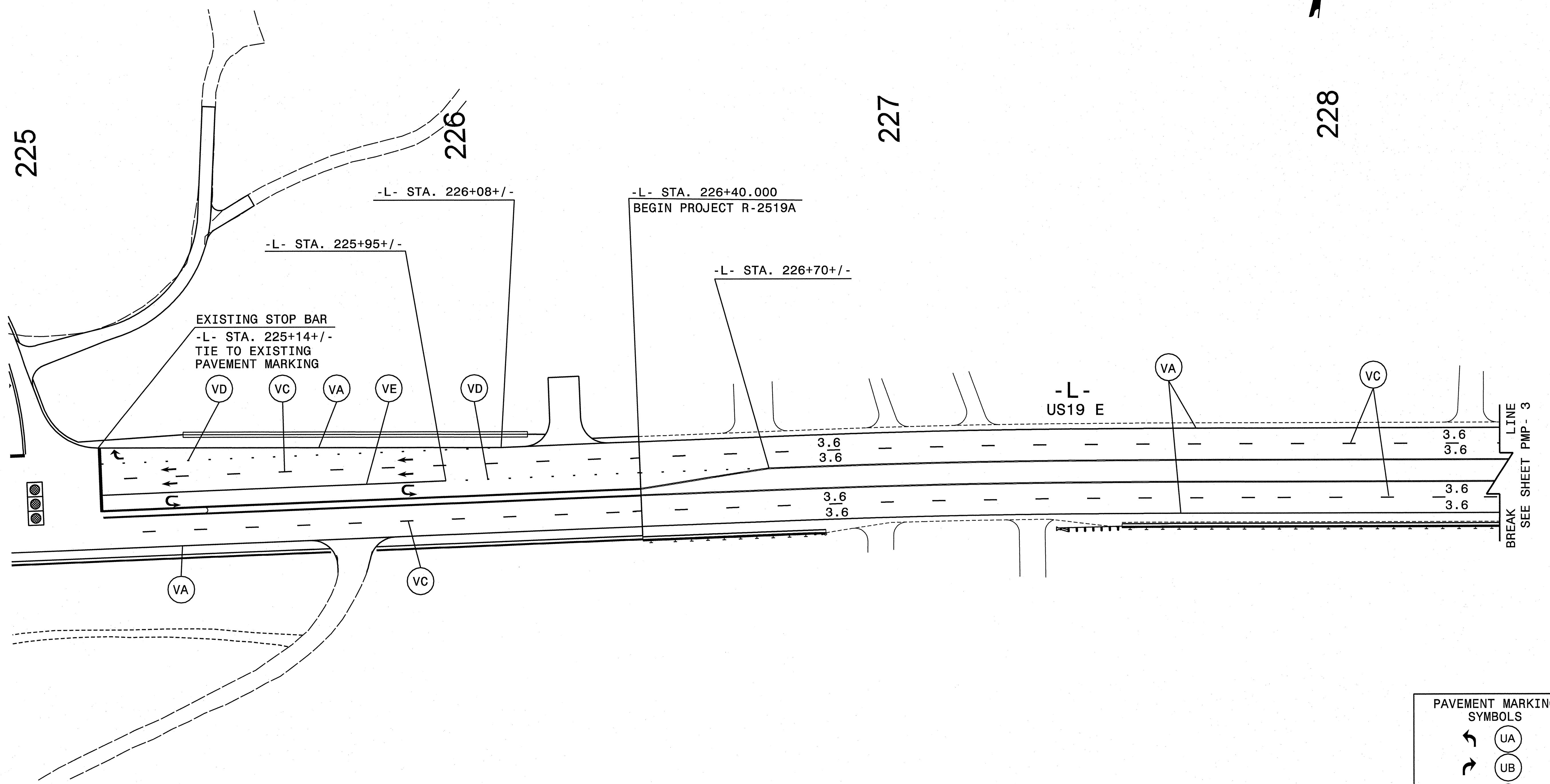
PO BOX 30128    TEL 919.788.0224  
RALEIGH, NC 27622    FAX 919.788.0232

**PAVEMENT MARKING LEGEND,  
SCHEDULE AND ESTIMATE**

12/29/2010 Y:\NC001\2519a\TrafficControl\TCP\2519a\_tc\_pm01.dgn \_USERNAME\_



TIP NO. R-2519A	SHEET NO. PMP-2
APPROVED: <i>Ronda B. Early</i>	
DATE: 12/29/10	
SEAL	



PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UH

**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
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 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

12/29/2010  
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 \_USERNAME\_



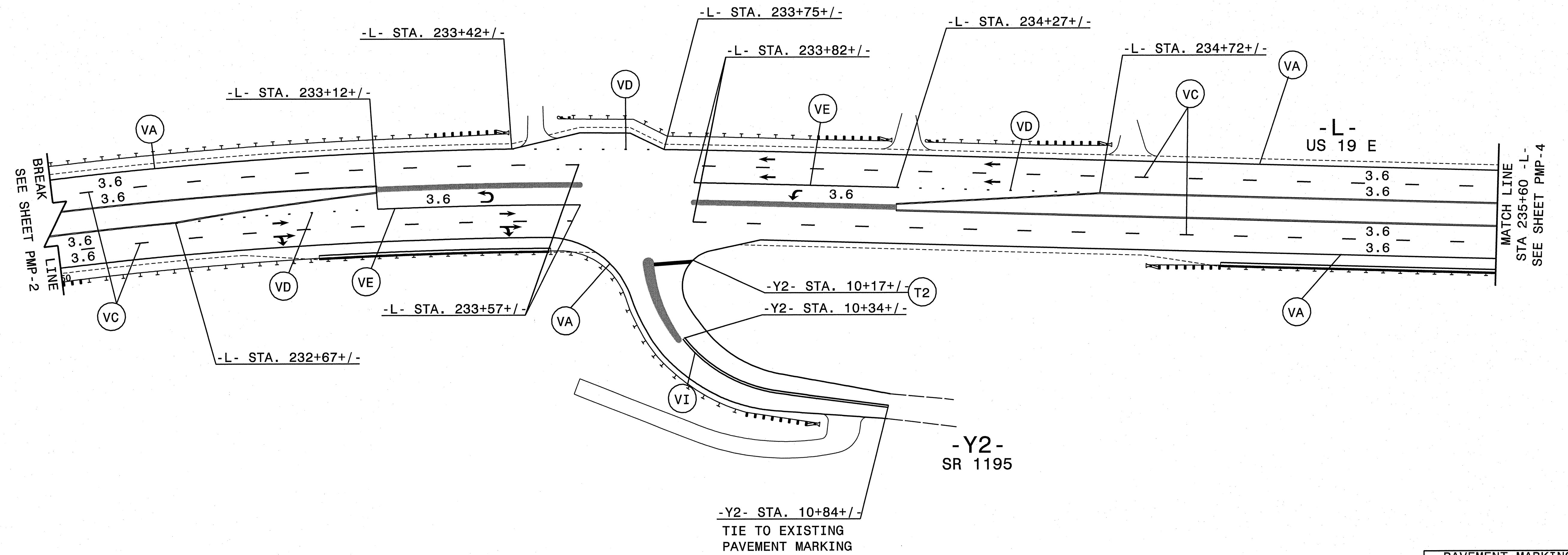
TIP NO. R-2519A	SHEET NO. PMP-3
APPROVED: <i>Rhonda B. Early</i>	
DATE: 12/29/10	
SEAL	



233

234

235

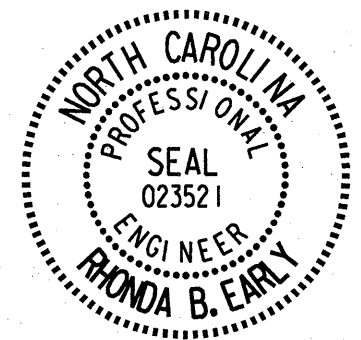


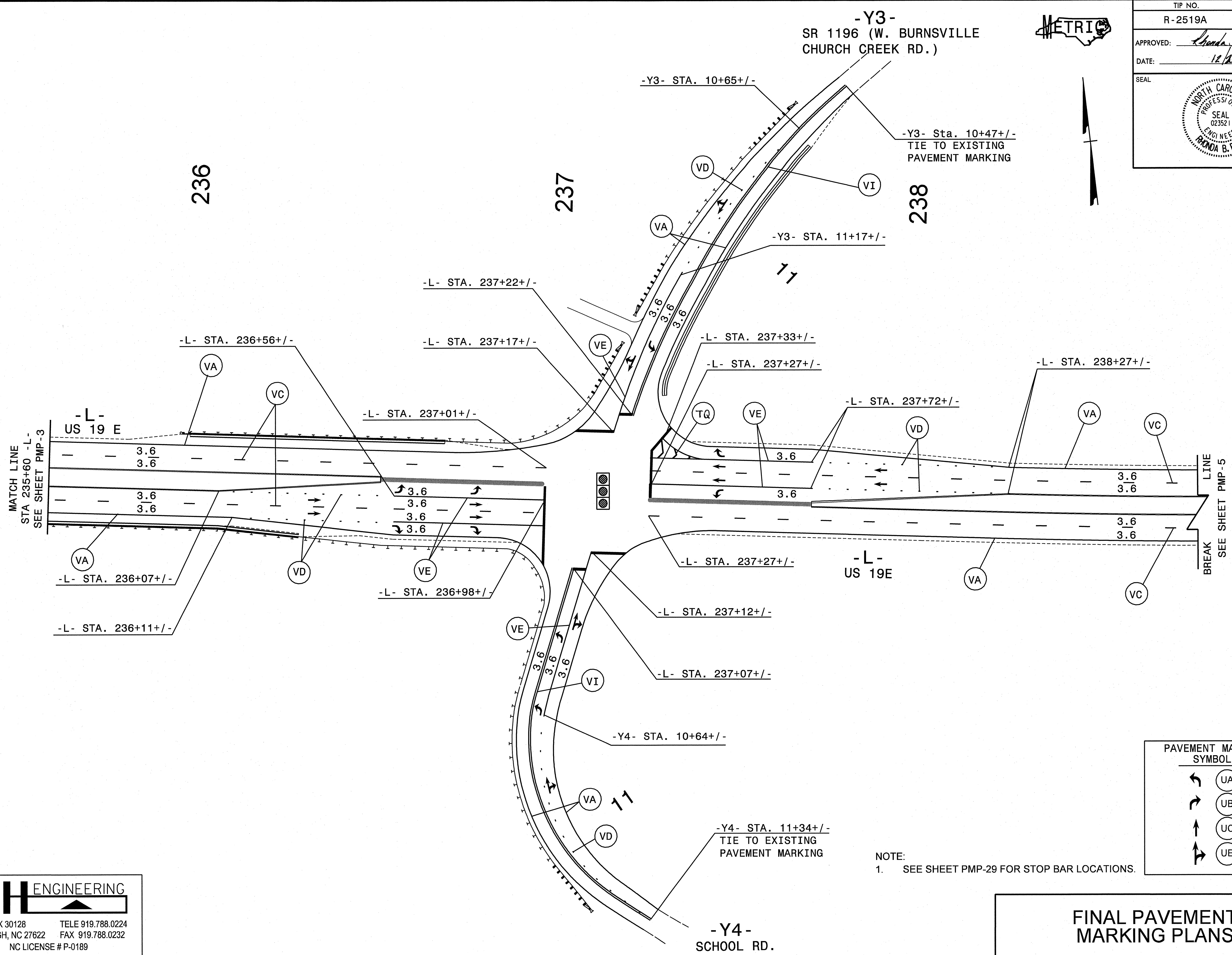
PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

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**FINAL PAVEMENT MARKING PLANS**

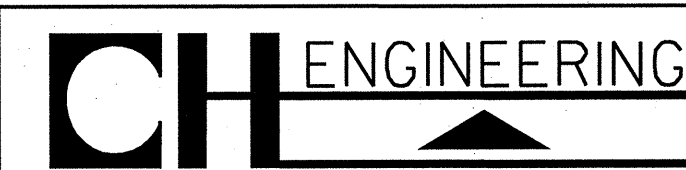
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TIP NO. R-2519A	SHEET NO. PMP- 4
APPROVED: <i>Ronda B. Early</i>	
DATE: 12/29/10	
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PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE


NOTE:  
1. SEE SHEET PMP-29 FOR STOP BAR LOCATIONS.



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**FINAL PAVEMENT MARKING PLANS**

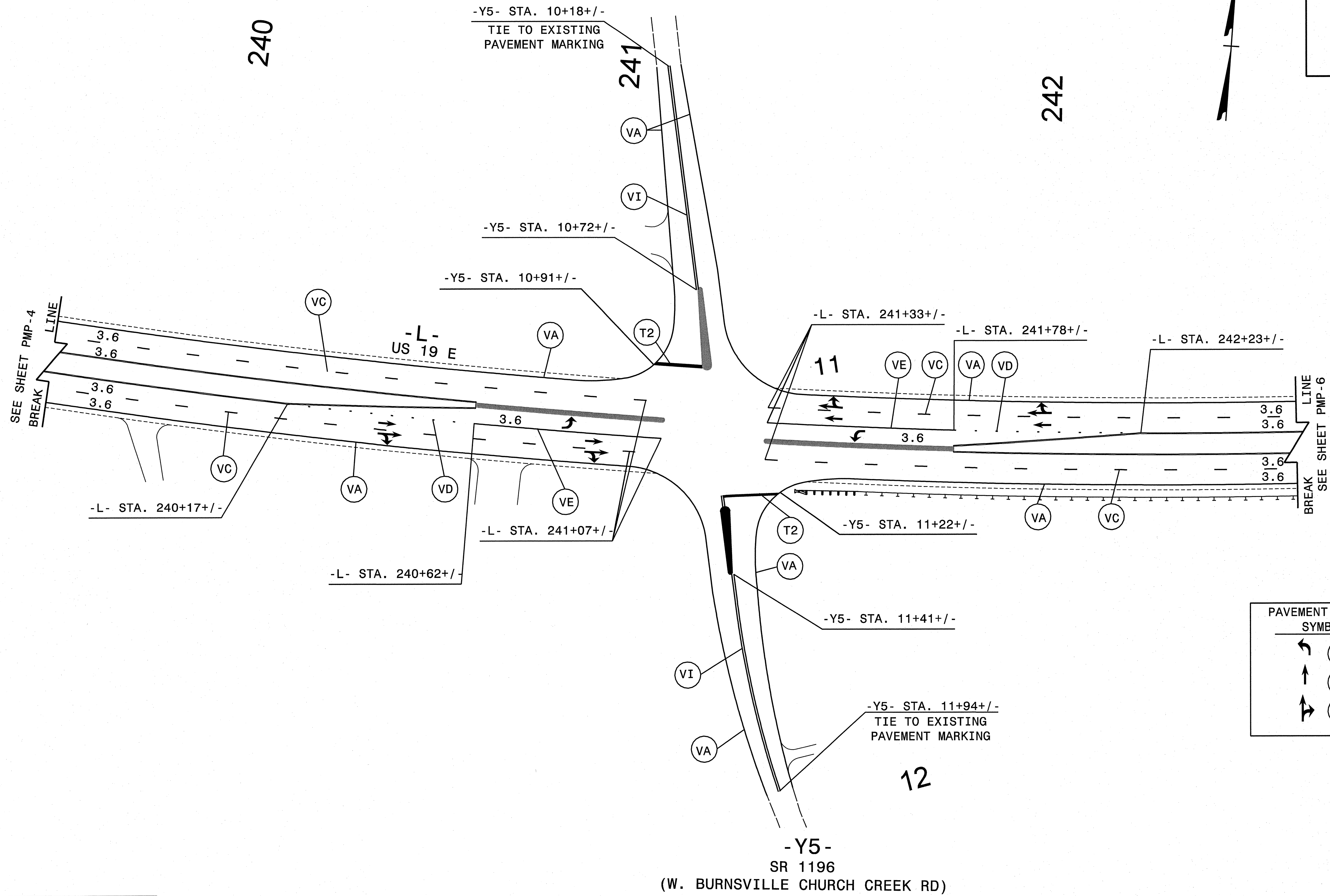
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TIP NO. R-2519A	SHEET NO. PMP- 5
APPROVED: <i>Ronda B. Early</i>	
DATE: 12/29/10	
SEAL	
	



-Y5-  
SR 1196  
(W. BURNSVILLE CHURCH CREEK RD)

10




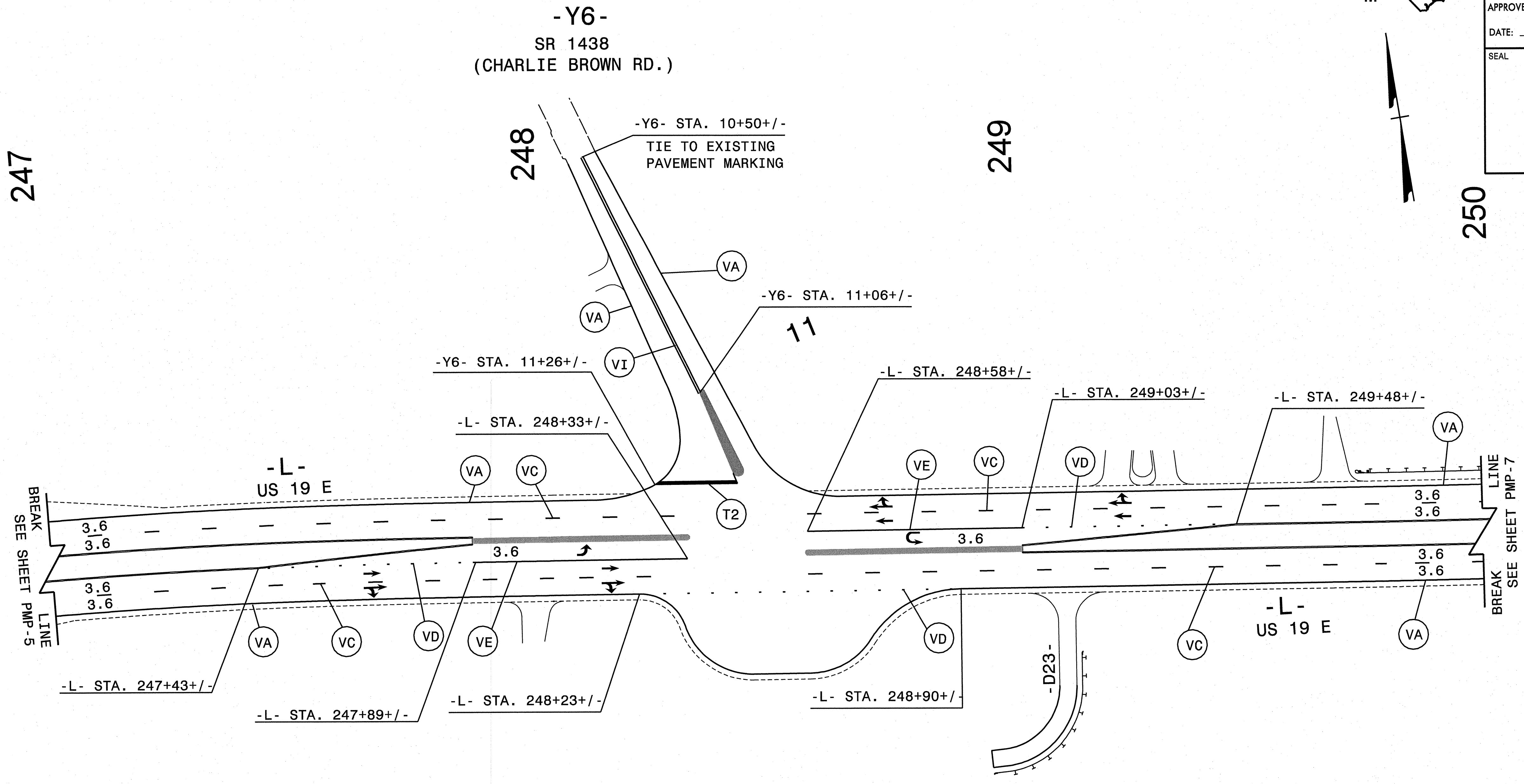
PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE





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**FINAL PAVEMENT MARKING PLANS**

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 USER:NAME

TIP NO. R-2519A	SHEET NO. PMP - 6
APPROVED: <i>Ronda B. Early</i>	
DATE: 12-29-10	
SEAL	
	




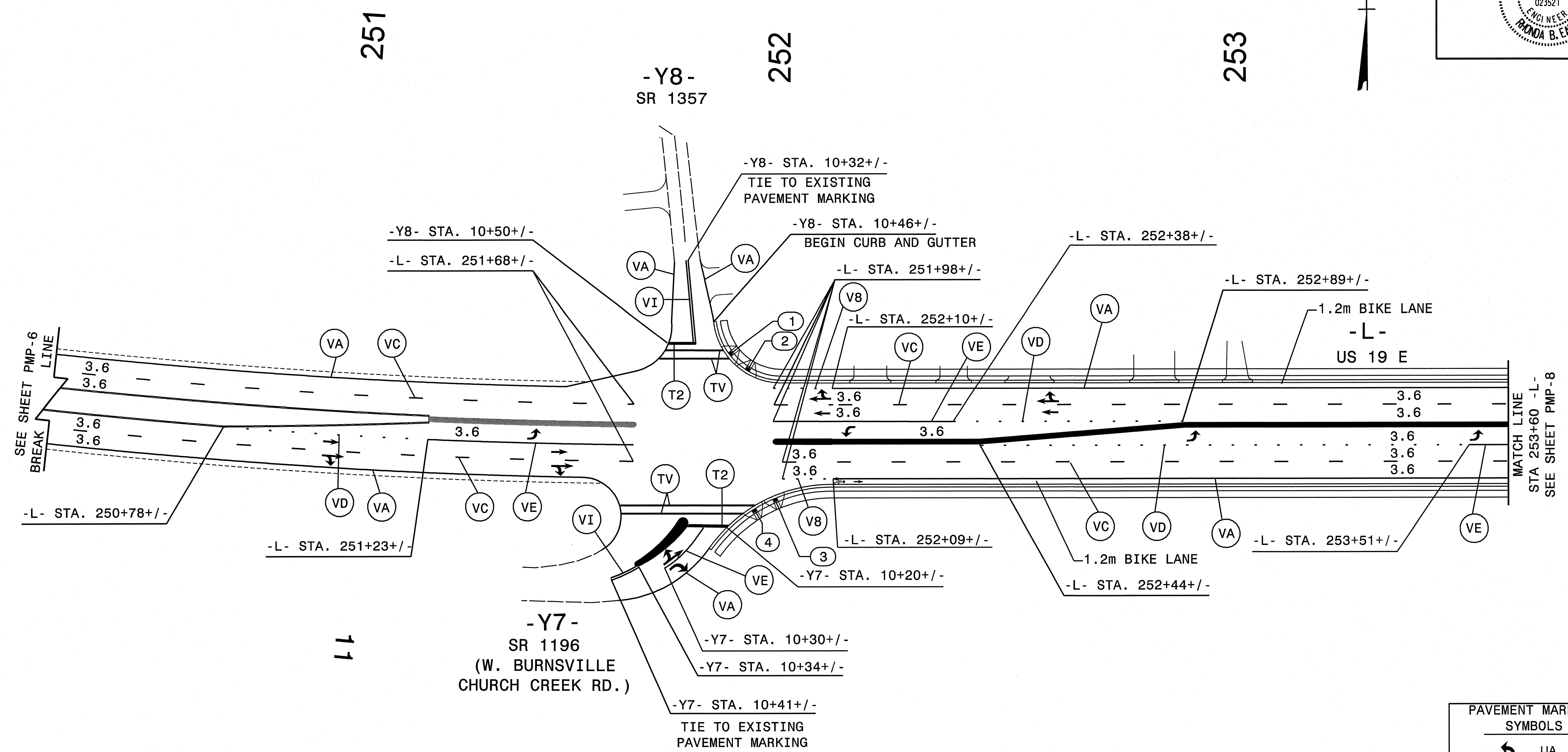
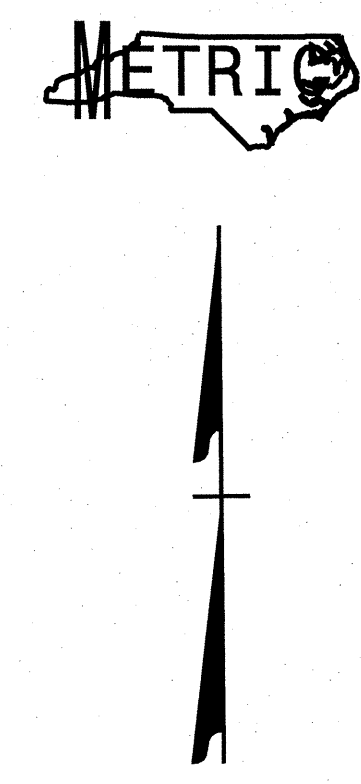
PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

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**FINAL PAVEMENT MARKING PLANS**

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 USERNAME:

TIP NO. R-2519A	SHEET NO. PMP- 7
APPROVED: <i>Shonda S. Early</i>	
DATE: 12-29-10	
SEAL	
	



PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE
	UD

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 251+89+/- (17 LT+/-)
  - ② -L- STA. 251+93+/- (14 LT+/-)
  - ③ -L- STA. 251+99+/- (14 RT+/-)
  - ④ -L- STA. 251+94+/- (17 RT+/-)

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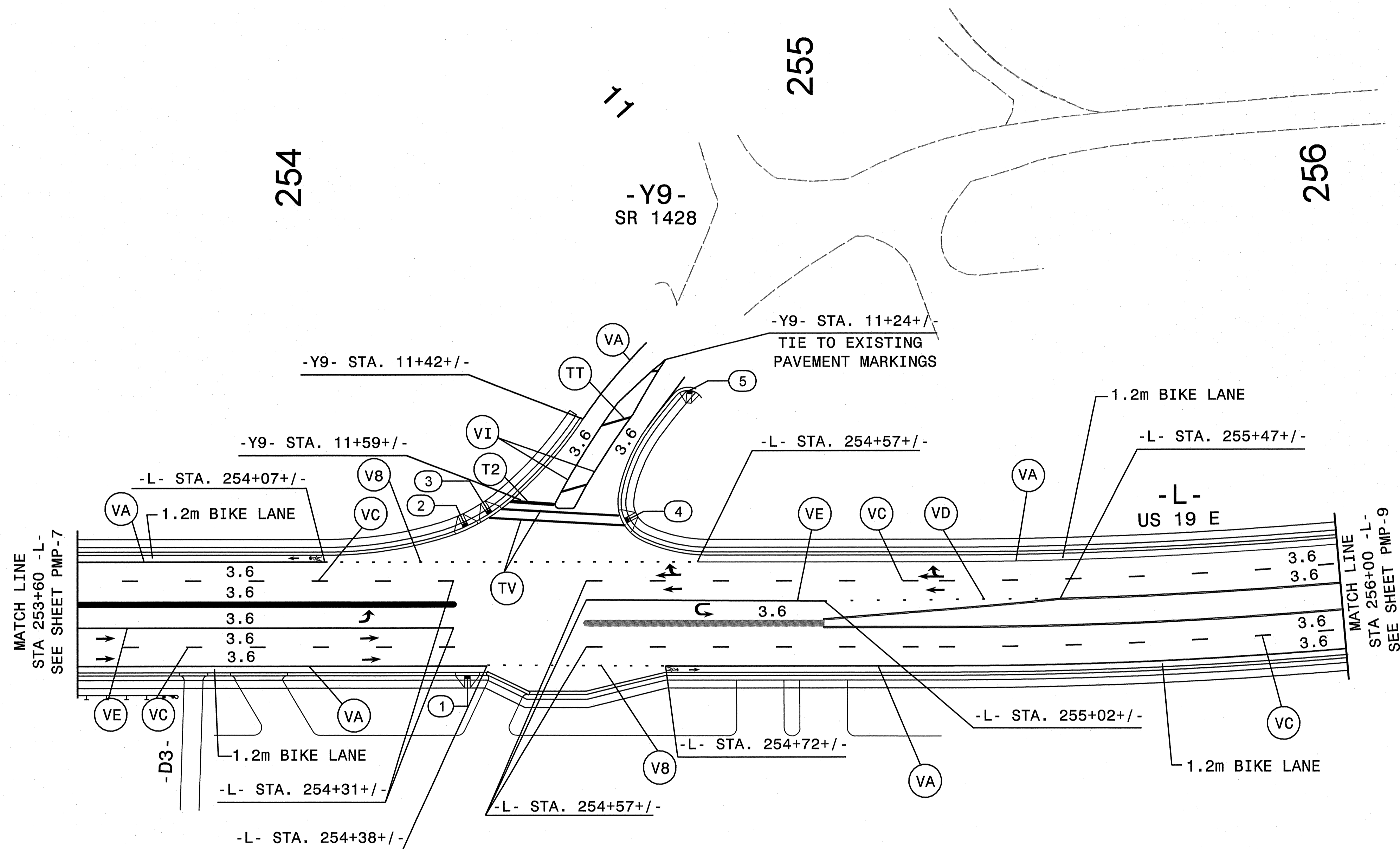
**FINAL PAVEMENT MARKING PLANS**

I2/29/2010 Y:\NCDOT\R2519a\TrafficControl\TOP\R2519a\_fc.pn07.dgn - USERNAME





TIP NO. R-2519A	SHEET NO. PMP- 8
APPROVED: <i>Shonda S. Cash</i>	
DATE: 12-29-10	
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PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 254+34+/- (12 RT+/-)
  - ② -L- STA. 254+34+/- (17 LT+/-)
  - ③ -L- STA. 254+38+/- (19 LT+/-)
  - ④ -L- STA. 254+64+/- (18 LT+/-)
  - ⑤ -Y9- STA. 11+25+/- (7 LT+/-)

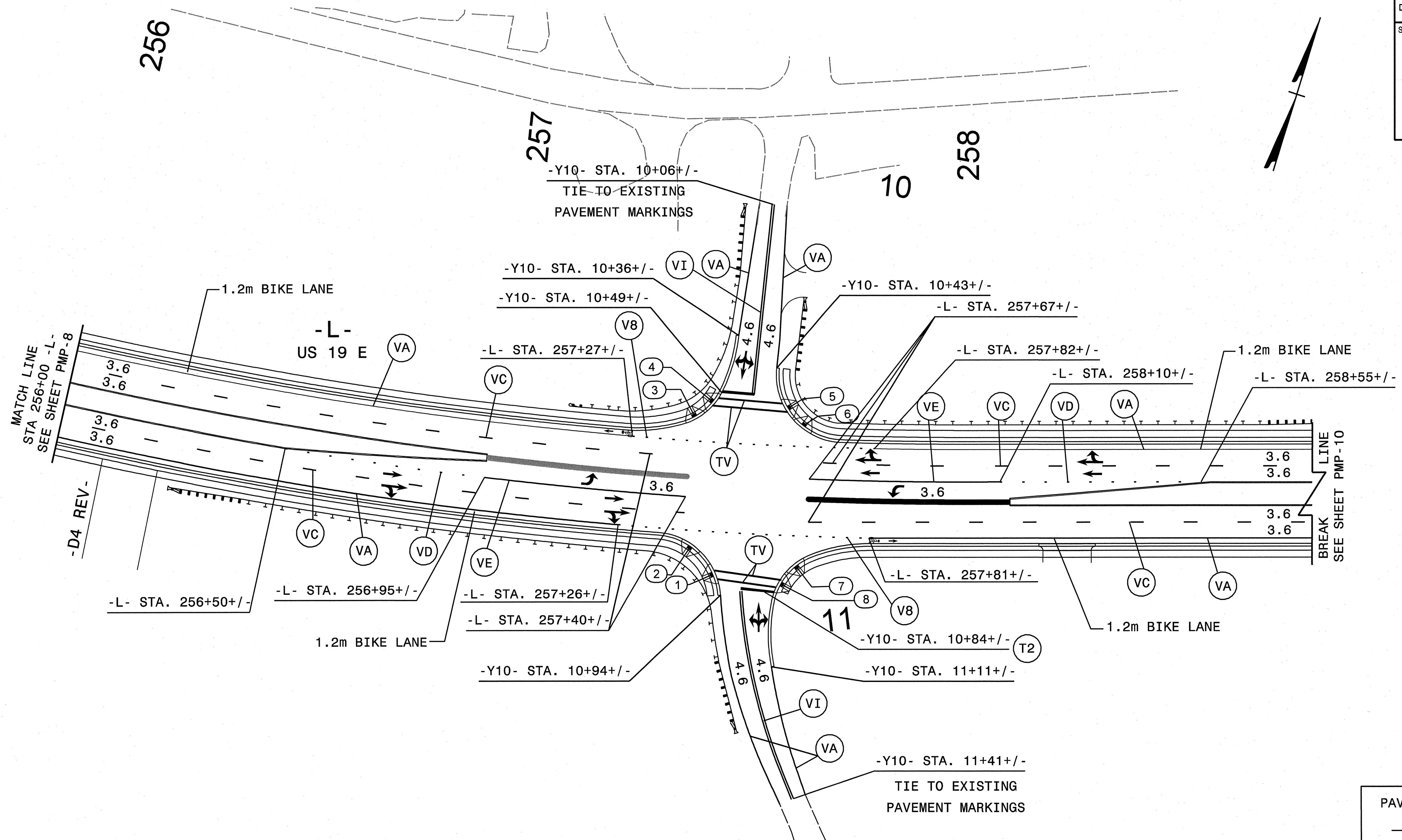
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**FINAL PAVEMENT MARKING PLANS**

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TIP NO. R-2519A	SHEET NO. PMP-9
APPROVED: <i>Shonda B. Early</i>	
DATE: 12-29-10	
SEAL	



- ACCESS RAMP LOCATIONS:**
- ① -L- STA. 257+47+/- (19 RT+/-)
  - ② -L- STA. 257+42+/- (14 RT+/-)
  - ③ -L- STA. 257+41+/- (15 LT+/-)
  - ④ -L- STA. 257+45+/- (19 LT+/-)
  - ⑤ -L- STA. 257+62+/- (18 LT+/-)
  - ⑥ -L- STA. 257+66+/- (14 LT+/-)
  - ⑦ -L- STA. 257+65+/- (17 RT+/-)
  - ⑧ -L- STA. 257+62+/- (21 RT+/-)

**-Y-**  
SR 1139  
(CHERRY LANE)

NOTE:  
FOR DOUBLE MEDIAN CROSS-OVER FROM STA 259+04+/-  
TO STA 261+09+/- SEE TYPICAL ON SHEET PMP-28.

**PAVEMENT MARKING SYMBOLS**

	UA
	UC
	UE
	UG

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**FINAL PAVEMENT MARKING PLANS**

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TIP NO. R-2519A	SHEET NO. PMP-10
APPROVED: <i>Shanda B. Early</i>	
DATE: 12-29-10	
SEAL	

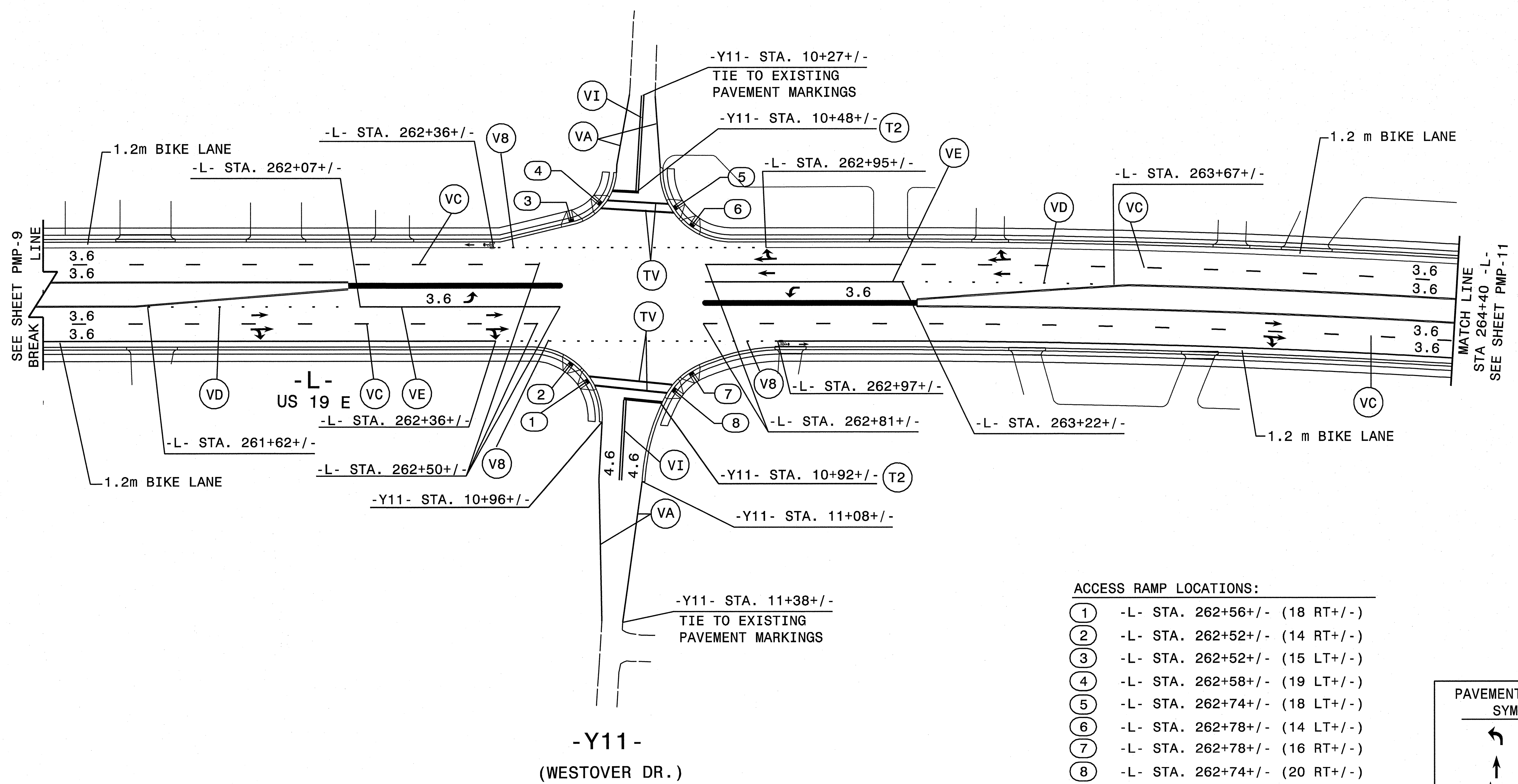
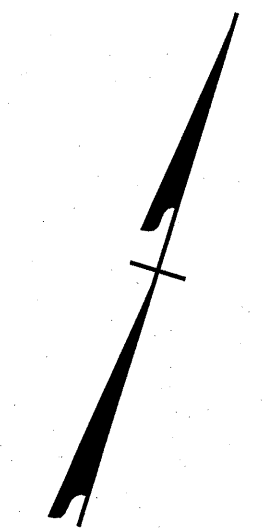
262

-Y11-  
(WESTOVER DR.)

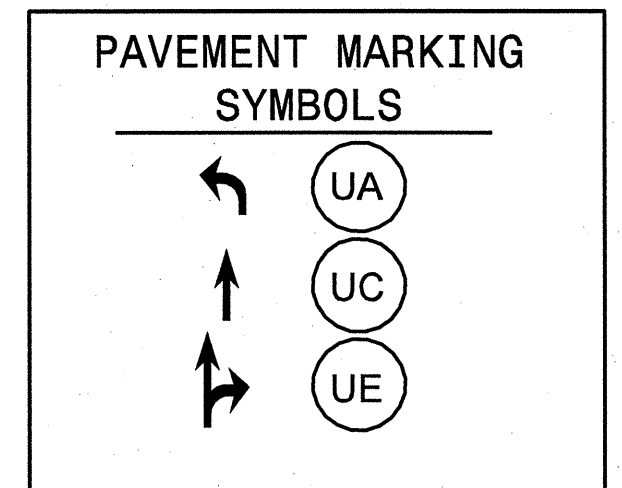
263

10

264



- ACCESS RAMP LOCATIONS:
- ① -L- STA. 262+56+/- (18 RT+/-)
  - ② -L- STA. 262+52+/- (14 RT+/-)
  - ③ -L- STA. 262+52+/- (15 LT+/-)
  - ④ -L- STA. 262+58+/- (19 LT+/-)
  - ⑤ -L- STA. 262+74+/- (18 LT+/-)
  - ⑥ -L- STA. 262+78+/- (14 LT+/-)
  - ⑦ -L- STA. 262+78+/- (16 RT+/-)
  - ⑧ -L- STA. 262+74+/- (20 RT+/-)



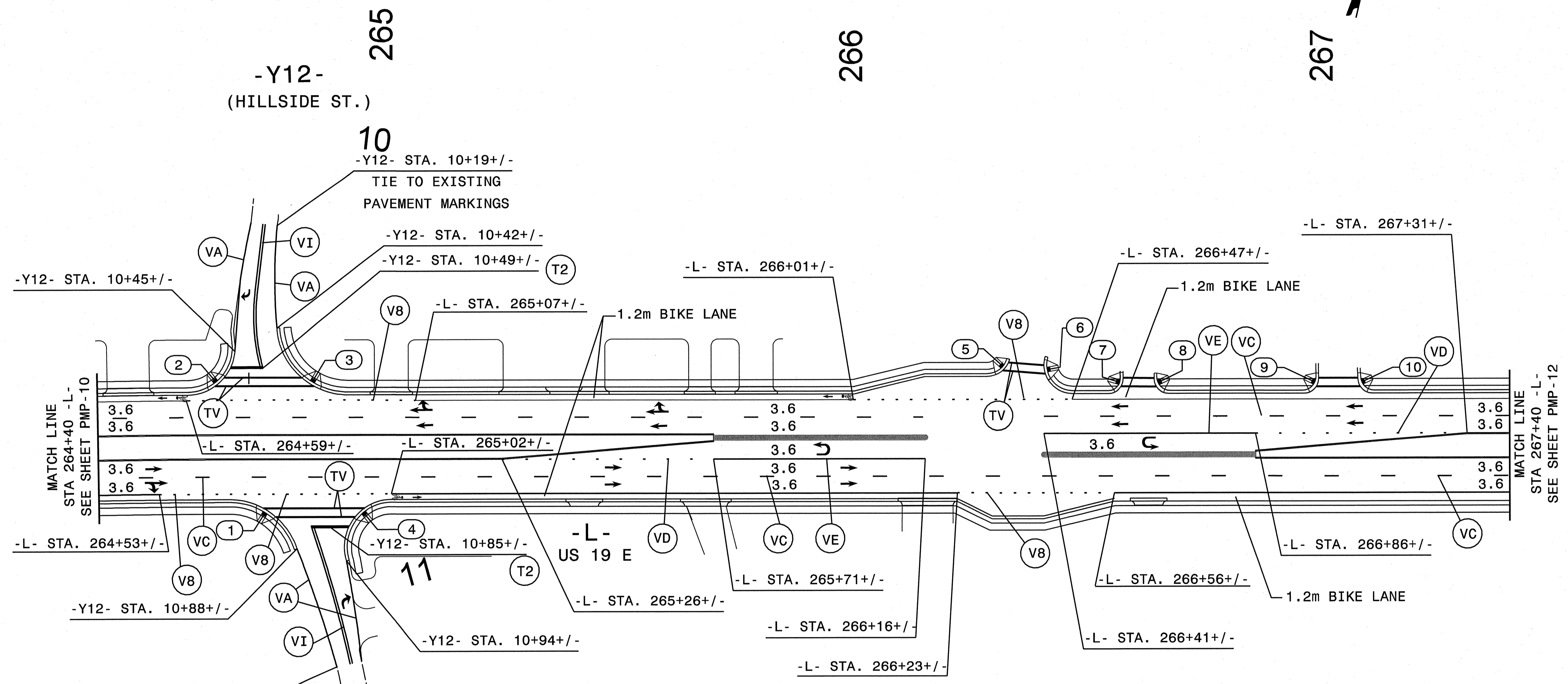
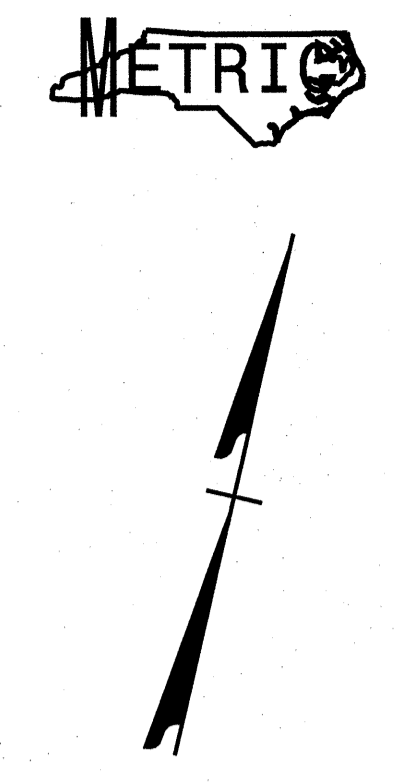
NOTE:  
FOR DOUBLE MEDIAN CROSS-OVER FROM STA 259+04+/-  
TO STA 261+09+/- SEE TYPICAL ON SHEET PMP-28.

**FINAL PAVEMENT MARKING PLANS**






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- ACCESS RAMP LOCATIONS:**
- ① -L- STA. 264+75+/- (14M RT+/-)
  - ② -L- STA. 264+65+/- (14M LT+/-)
  - ③ -L- STA. 264+86+/- (14M LT+/-)
  - ④ -L- STA. 264+96+/- (14M RT+/-)
  - ⑤ -L- STA. 266+32+/- (17M LT+/-)
  - ⑥ -L- STA. 266+42+/- (16M LT+/-)
  - ⑦ -L- STA. 266+57+/- (13M LT+/-)
  - ⑧ -L- STA. 266+65+/- (13M LT+/-)
  - ⑨ -L- STA. 266+99+/- (13M LT+/-)
  - ⑩ -L- STA. 267+09+/- (13M LT+/-)

PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE
	UH

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**FINAL PAVEMENT MARKING PLANS**

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 USER:NAME



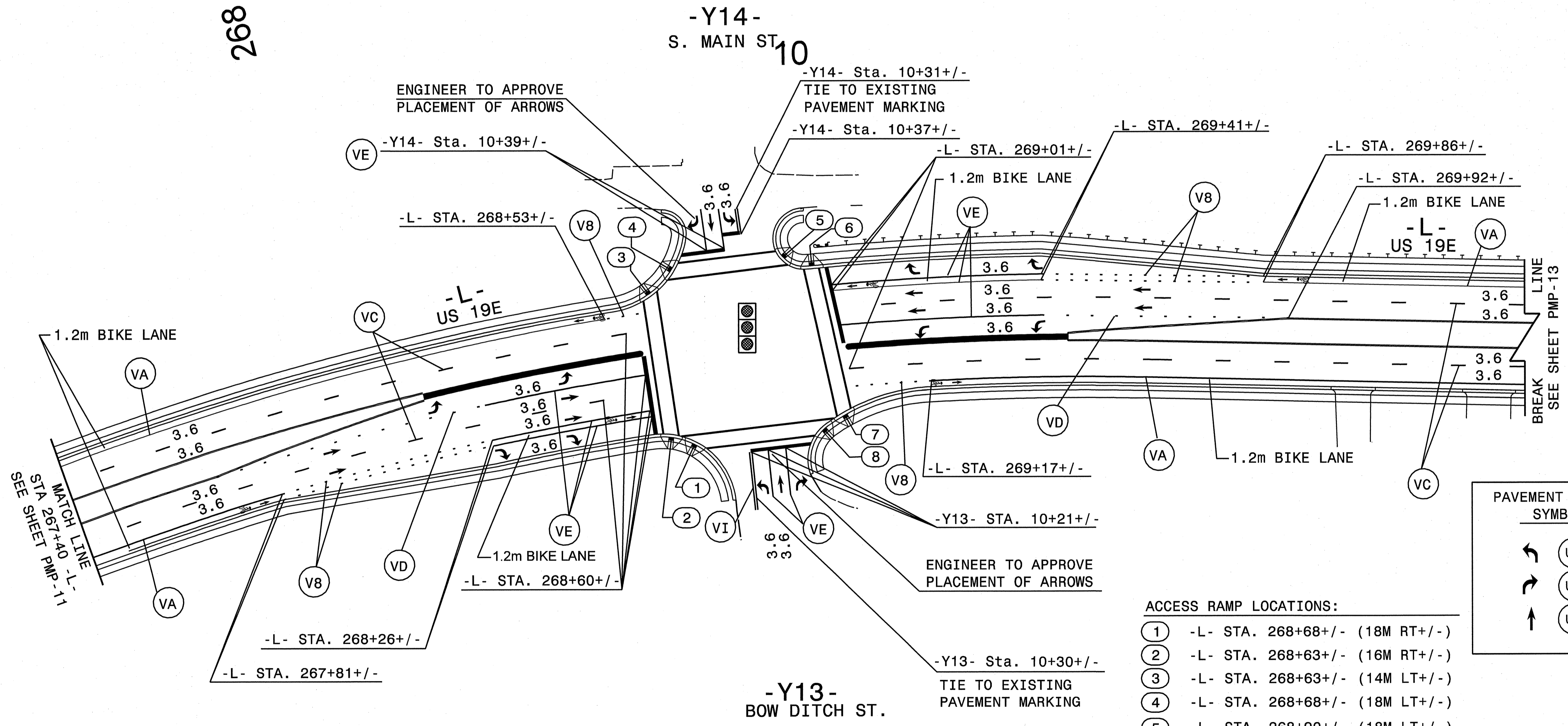
TIP NO. R-2519A	SHEET NO. PMP-12
APPROVED: <i>Shonda B. Early</i>	
DATE: 12-29-10	
SEAL	



268

269

270



PAVEMENT MARKING SYMBOLS

	UA
	UB
	UC

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 268+68+/- (18M RT+/-)
  - ② -L- STA. 268+63+/- (16M RT+/-)
  - ③ -L- STA. 268+63+/- (14M LT+/-)
  - ④ -L- STA. 268+68+/- (18M LT+/-)
  - ⑤ -L- STA. 268+90+/- (18M LT+/-)
  - ⑥ -L- STA. 268+96+/- (15M LT+/-)
  - ⑦ -L- STA. 269+00+/- (15M RT+/-)
  - ⑧ -L- STA. 268+95+/- (18M RT+/-)

NOTE:  
 1. FOR DOUBLE MEDIAN CROSS-OVER FROM STA 270+61+/- TO STA 272+66+/- SEE TYPICAL ON SHEET PMP-28.  
 2. SEE SHEET PMP-30 FOR STOP BAR/CROSSWALK LOCATIONS.

**FINAL PAVEMENT MARKING PLANS**

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 USER:NAME

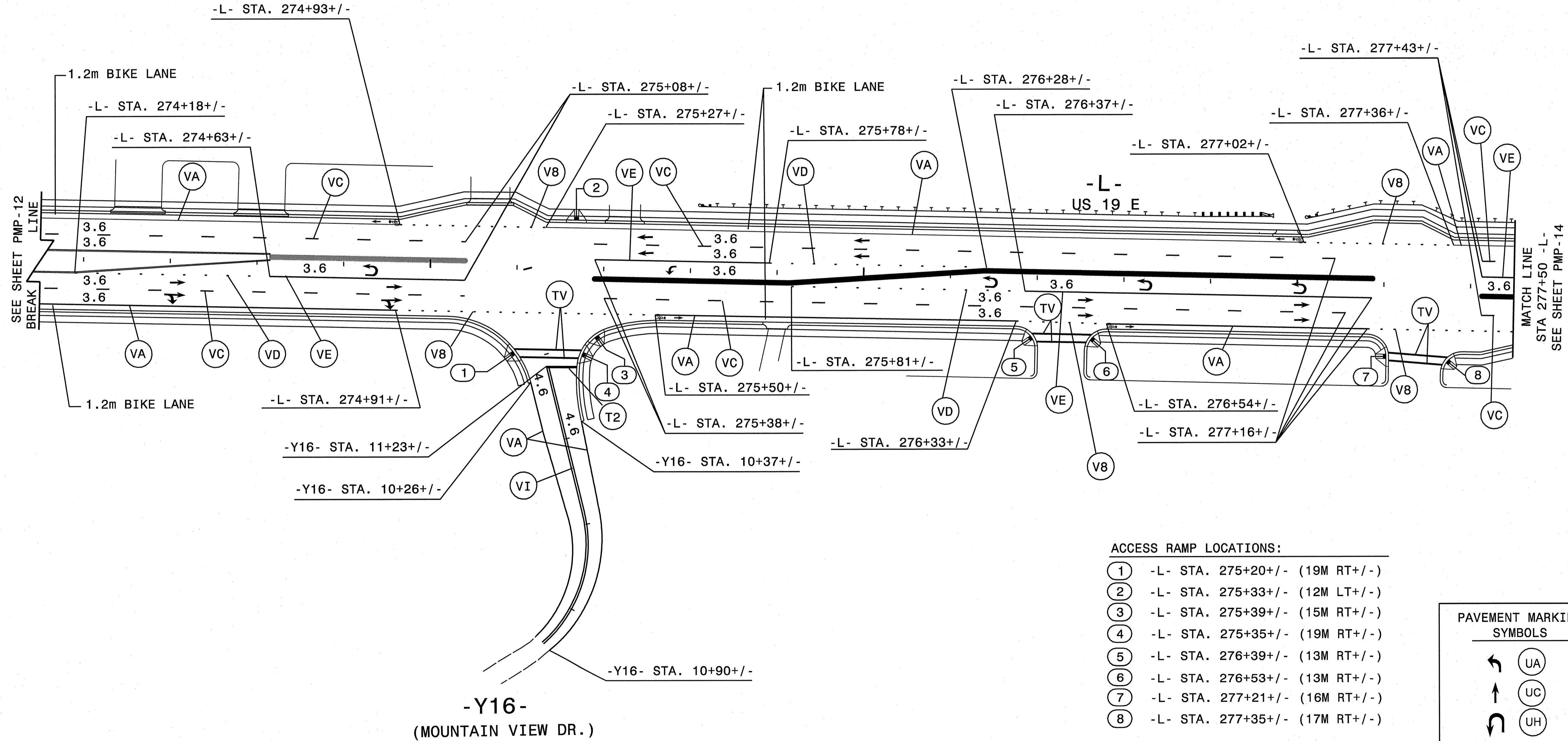


TIP NO. R-2519A	SHEET NO. PMP-13
APPROVED: <i>Shonda B. Early</i>	
DATE: 12-29-10	
SEAL	

275

276

277



- ACCESS RAMP LOCATIONS:
- ① -L- STA. 275+20+/- (19M RT+/-)
  - ② -L- STA. 275+33+/- (12M LT+/-)
  - ③ -L- STA. 275+39+/- (15M RT+/-)
  - ④ -L- STA. 275+35+/- (19M RT+/-)
  - ⑤ -L- STA. 276+39+/- (13M RT+/-)
  - ⑥ -L- STA. 276+53+/- (13M RT+/-)
  - ⑦ -L- STA. 277+21+/- (16M RT+/-)
  - ⑧ -L- STA. 277+35+/- (17M RT+/-)

PAVEMENT MARKING SYMBOLS

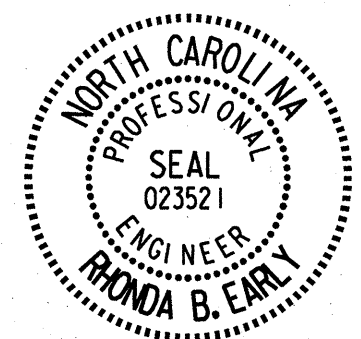
- UA
- UC
- UH

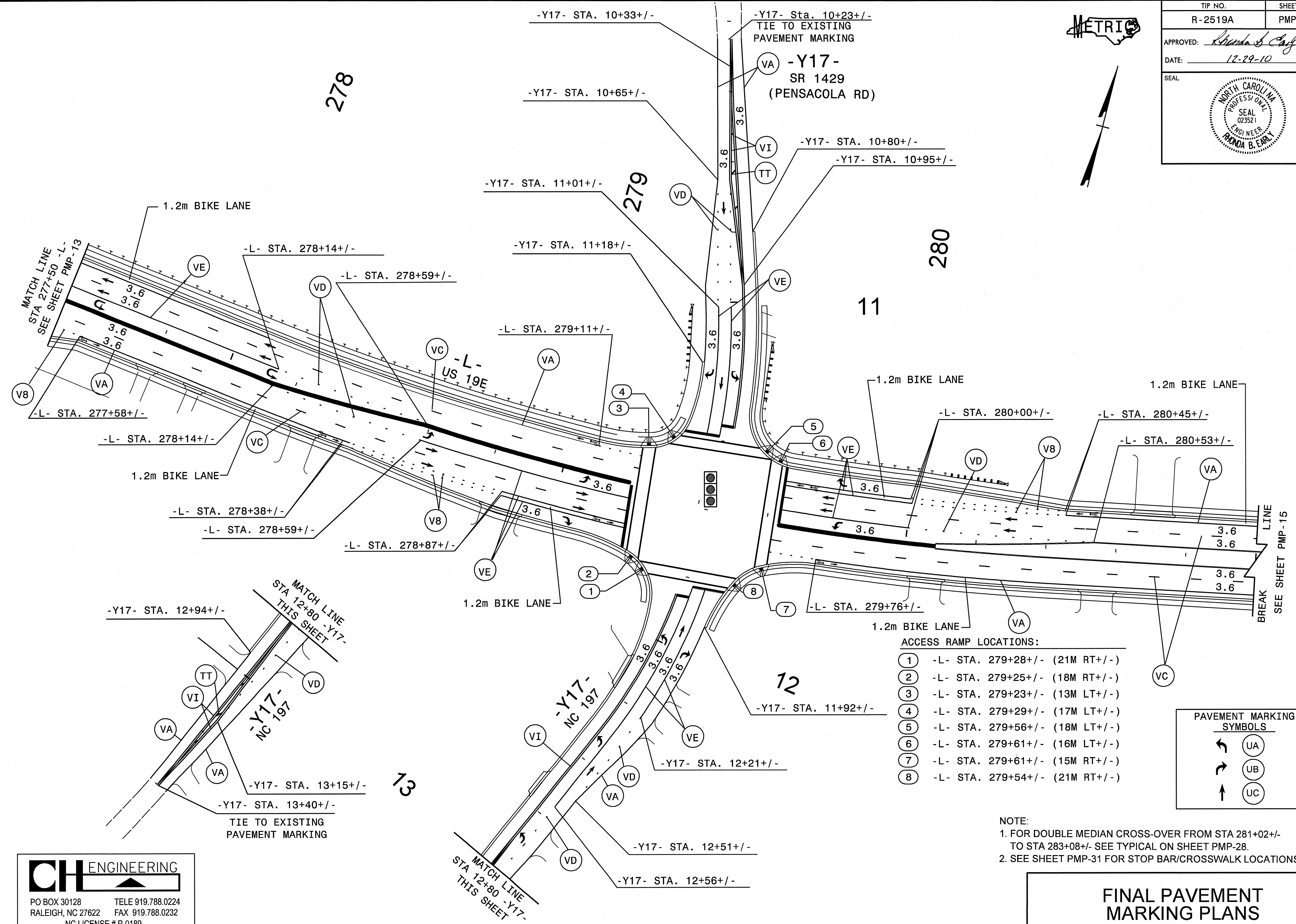
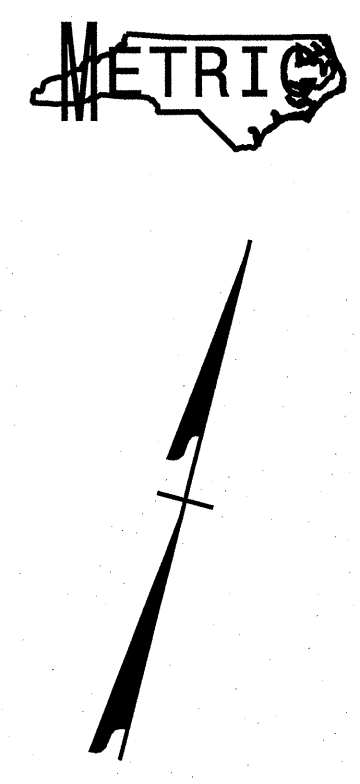
NOTE:  
FOR DOUBLE MEDIAN CROSS-OVER FROM STA 270+61+/-  
TO STA 272+66+/- SEE TYPICAL ON SHEET PMP-28.

**FINAL PAVEMENT MARKING PLANS**

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 NC LICENSE # P-0189

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 USER:NAME

TIP NO. R-2519A	SHEET NO. PMP-14
APPROVED: <i>[Signature]</i>	
DATE: 12-29-10	
SEAL	
	



- ACCESS RAMP LOCATIONS:**
- ① -L- STA. 279+28+/- (21M RT+/-)
  - ② -L- STA. 279+25+/- (18M RT+/-)
  - ③ -L- STA. 279+23+/- (13M LT+/-)
  - ④ -L- STA. 279+29+/- (17M LT+/-)
  - ⑤ -L- STA. 279+56+/- (18M LT+/-)
  - ⑥ -L- STA. 279+61+/- (16M LT+/-)
  - ⑦ -L- STA. 279+61+/- (15M RT+/-)
  - ⑧ -L- STA. 279+54+/- (21M RT+/-)

PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC

**NOTE:**  
 1. FOR DOUBLE MEDIAN CROSS-OVER FROM STA 281+02+/- TO STA 283+08+/- SEE TYPICAL ON SHEET PMP-28.  
 2. SEE SHEET PMP-31 FOR STOP BAR/CROSSWALK LOCATIONS.

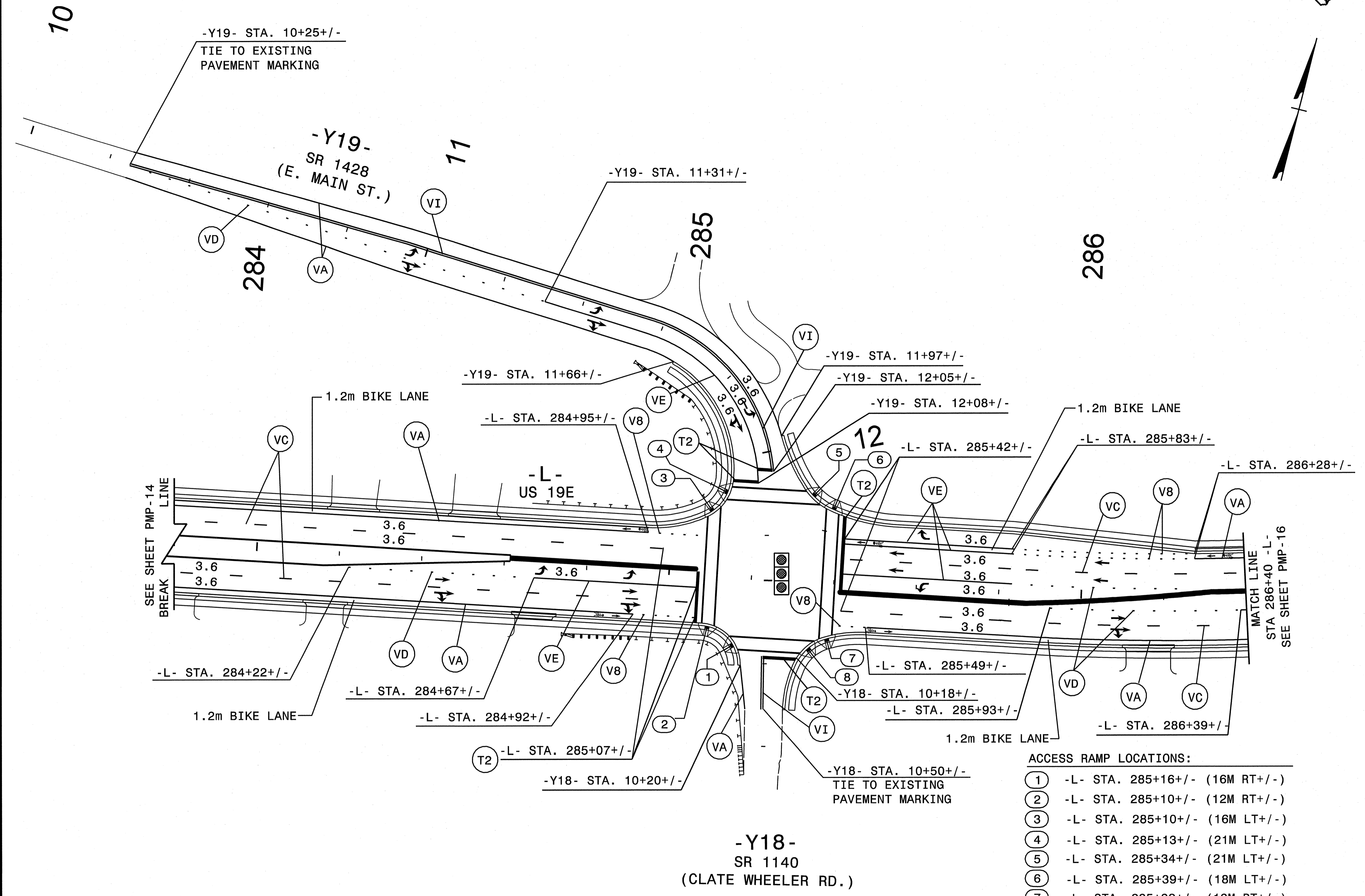
**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

12/29/2010 11:55:00 AM \\T:\TrafficControl\TCP\2519a\_tc.pml.dgn USER:NAME



TIP NO. R-2519A	SHEET NO. PMP-15
APPROVED: <i>Ronda B. Early</i>	
DATE: 12-29-10	
SEAL	



PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE

- ACCESS RAMP LOCATIONS:**
- ① -L- STA. 285+16+/- (16M RT+/-)
  - ② -L- STA. 285+10+/- (12M RT+/-)
  - ③ -L- STA. 285+10+/- (16M LT+/-)
  - ④ -L- STA. 285+13+/- (21M LT+/-)
  - ⑤ -L- STA. 285+34+/- (21M LT+/-)
  - ⑥ -L- STA. 285+39+/- (18M LT+/-)
  - ⑦ -L- STA. 285+39+/- (13M RT+/-)
  - ⑧ -L- STA. 285+35+/- (16M RT+/-)

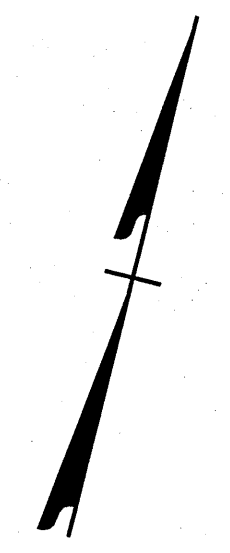
**NOTE:**  
 1. FOR DOUBLE MEDIAN CROSS-OVER FROM STA 281+02+/- TO STA 283+08+/- SEE TYPICAL ON SHEET PMP-28.  
 2. SEE SHEET PMP-31 FOR STOP BAR/CROSSWALK LOCATIONS.

**FINAL PAVEMENT MARKING PLANS**

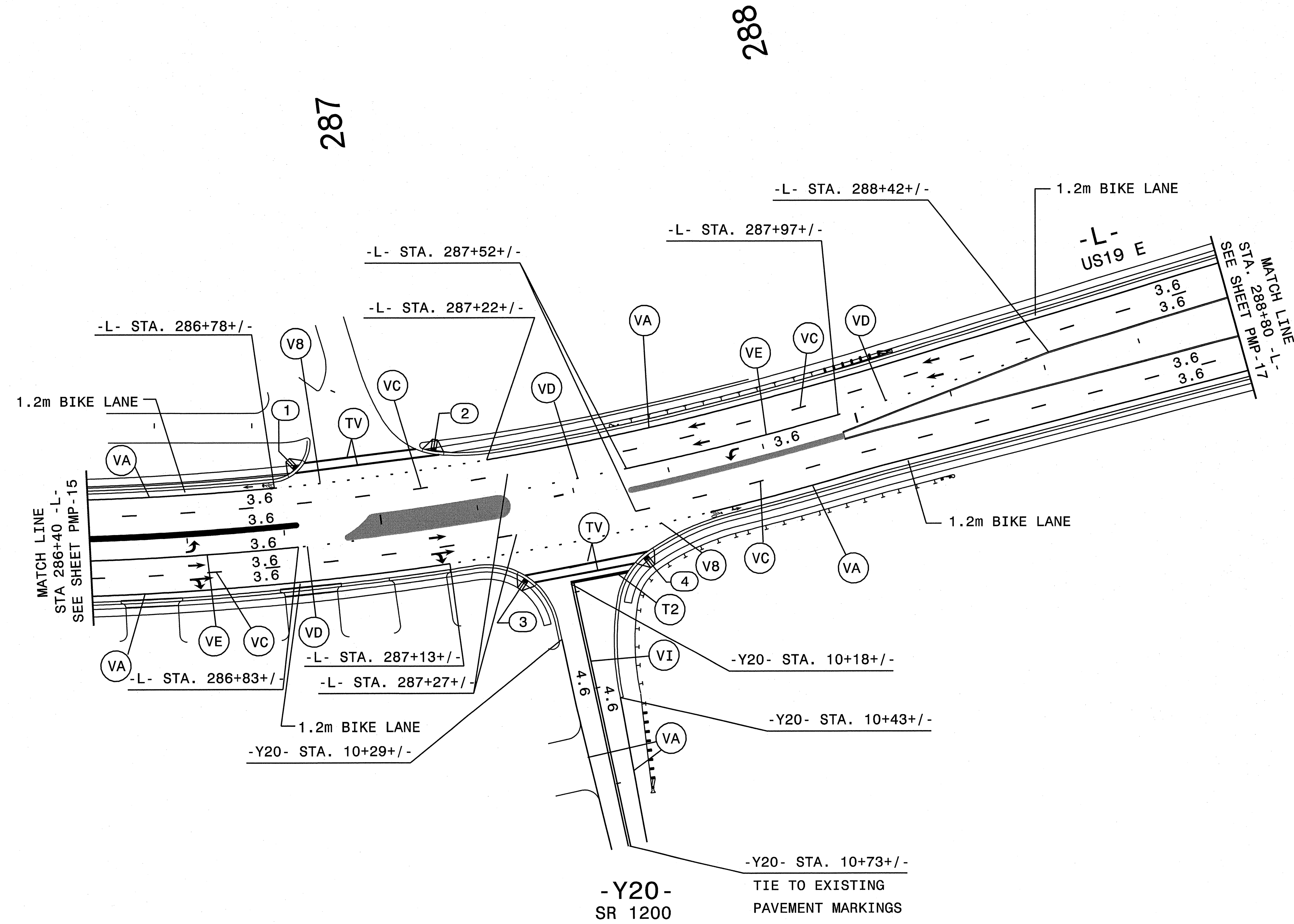
**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

P:\2519A\2519A\TrafficControl\TCP\2519a\_tc.pml5.dgn  
 USERNAME





TIP NO. R-2519A	SHEET NO. PMP-16
APPROVED: <i>Rhonda B. Early</i>	
DATE: 12-29-10	
SEAL	



PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 286+84+/- (13M LT+/-)
  - ② -L- STA. 287+13+/- (13M LT+/-)
  - ③ -L- STA. 287+27+/- (16M RT+/-)
  - ④ -L- STA. 287+52+/- (16M RT+/-)

**FINAL PAVEMENT MARKING PLANS**

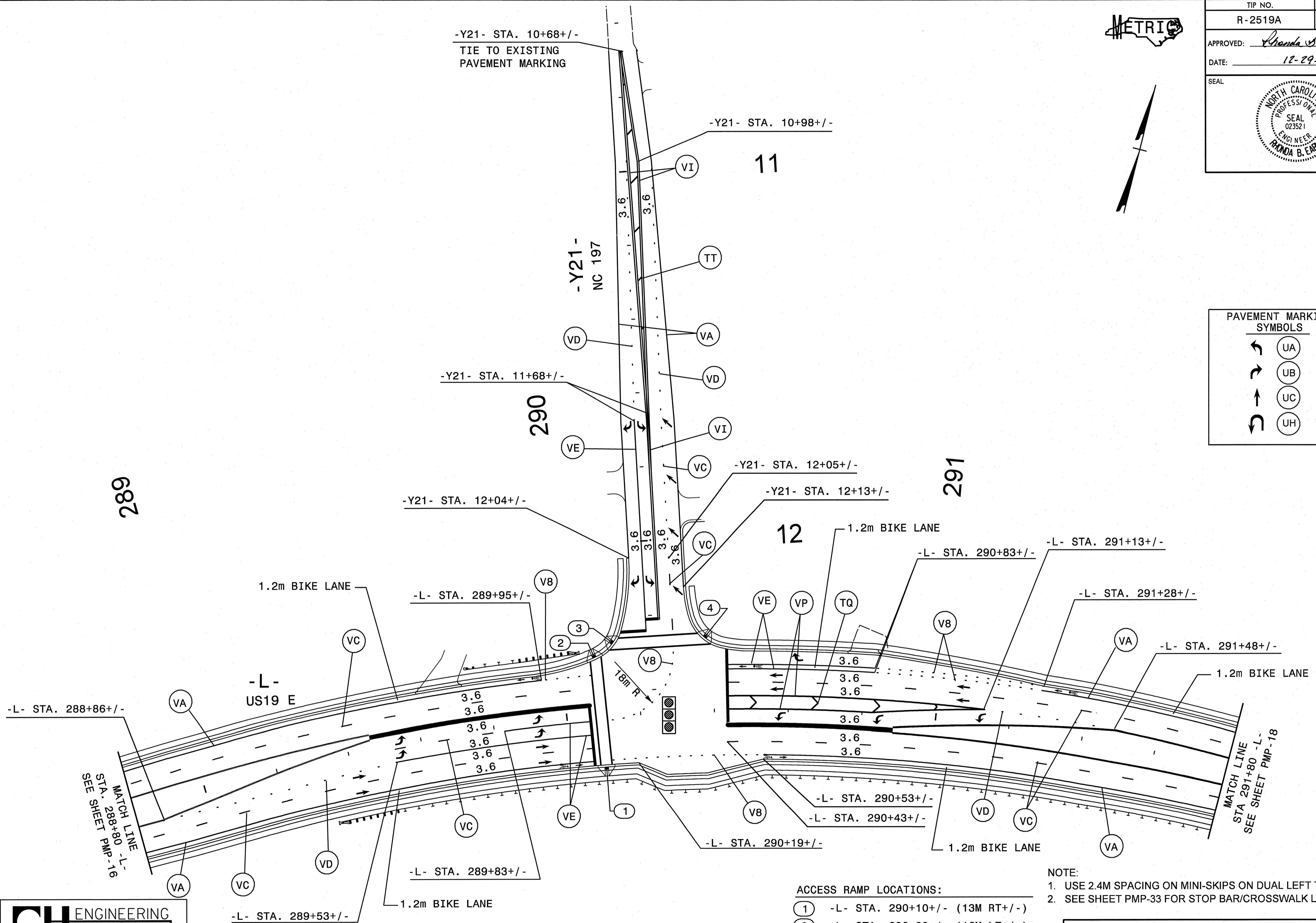
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USER:NAME

**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189



TIP NO. R-2519A	SHEET NO. PMP-17
APPROVED: <i>Shanda S. Early</i>	
DATE: 12-29-10	
SEAL	

PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UH



- ACCESS RAMP LOCATIONS:
- ① -L- STA. 290+10+/- (13M RT+/-)
  - ② -L- STA. 290+09+/- (16M LT+/-)
  - ③ -L- STA. 290+14+/- (20M LT+/-)
  - ④ -L- STA. 290+38+/- (20M LT+/-)

- NOTE:
1. USE 2.4M SPACING ON MINI-SKIPS ON DUAL LEFT TURN.
  2. SEE SHEET PMP-33 FOR STOP BAR/CROSSWALK LOCATIONS.

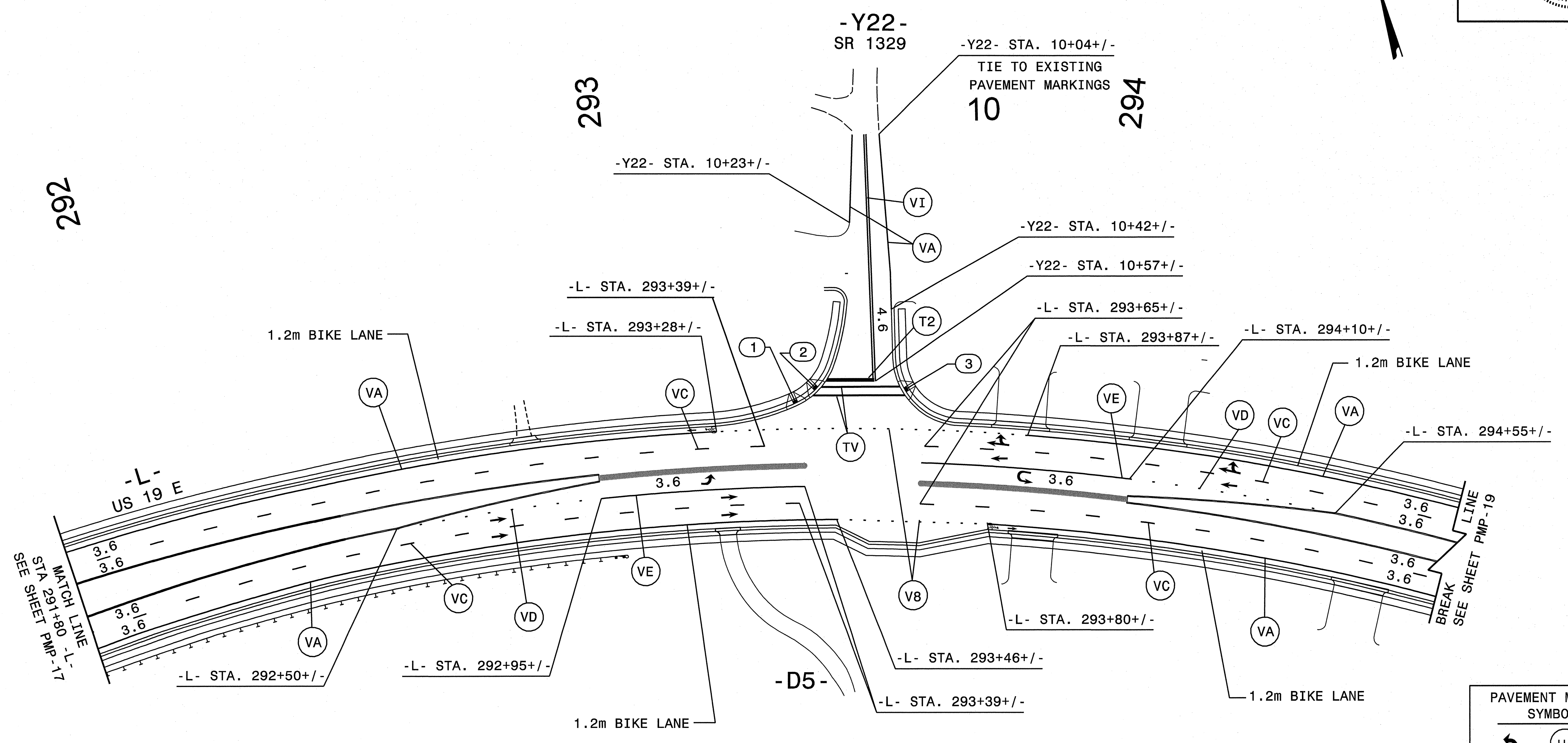
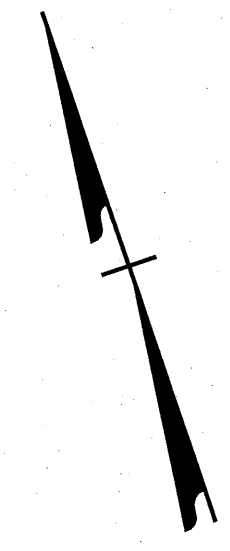
**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

12/29/2010  
 Y:\NC001\2519a\Traffic\TrafficControl\CPA\R2519a\_fc.pml7.dgn  
 USERNAME:

**FINAL PAVEMENT MARKING PLANS**



TIP NO. R-2519A	SHEET NO. PMP-18
APPROVED: <i>Shonda S. Early</i>	
DATE: 12-29-10	
SEAL	



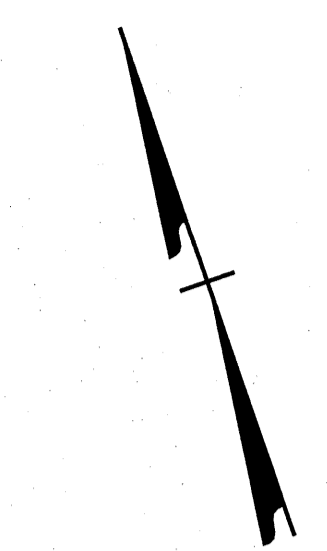
PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 293+38+/- (15M LT+/-)
  - ② -L- STA. 293+42+/- (18M LT+/-)
  - ③ -L- STA. 293+61+/- (18M LT+/-)

**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

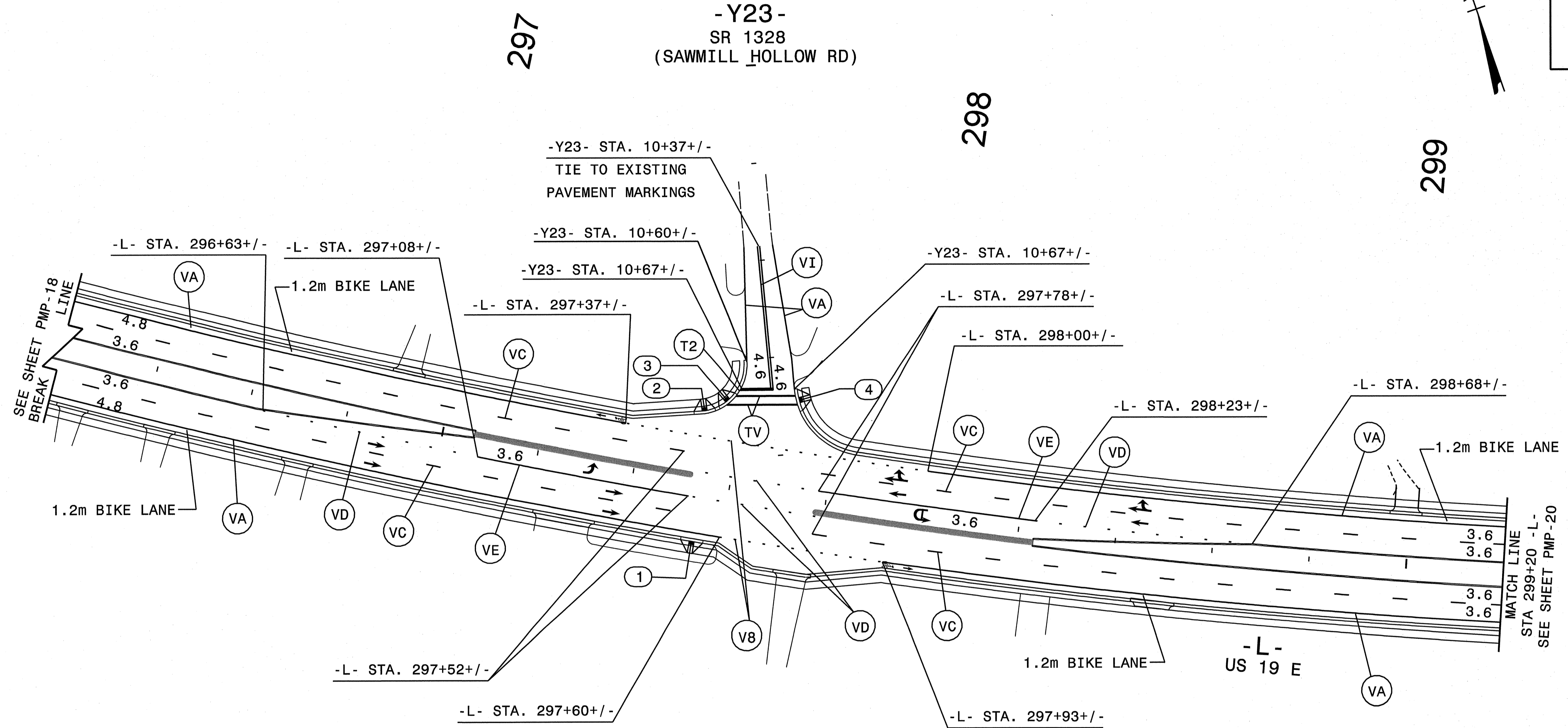
**FINAL PAVEMENT MARKING PLANS**

12/29/2010 Y:\NCDDOT\2519a\TrafficControl\TCP\2519a\_tc.pml8.dgn \_USERNAME\_



TIP NO. R-2519A	SHEET NO. PMP-19
APPROVED: <i>Shonda B. Early</i>	
DATE: 12-29-10	
SEAL	

-Y23-  
SR 1328  
(SAWMILL HOLLOW RD)



PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

- ACCESS RAMP LOCATIONS:
- ① -L- STA. 297+54+/- (12M RT+/-)
  - ② -L- STA. 297+52+/- (15M LT+/-)
  - ③ -L- STA. 297+57+/- (18M LT+/-)
  - ④ -L- STA. 297+71+/- (20M LT+/-)

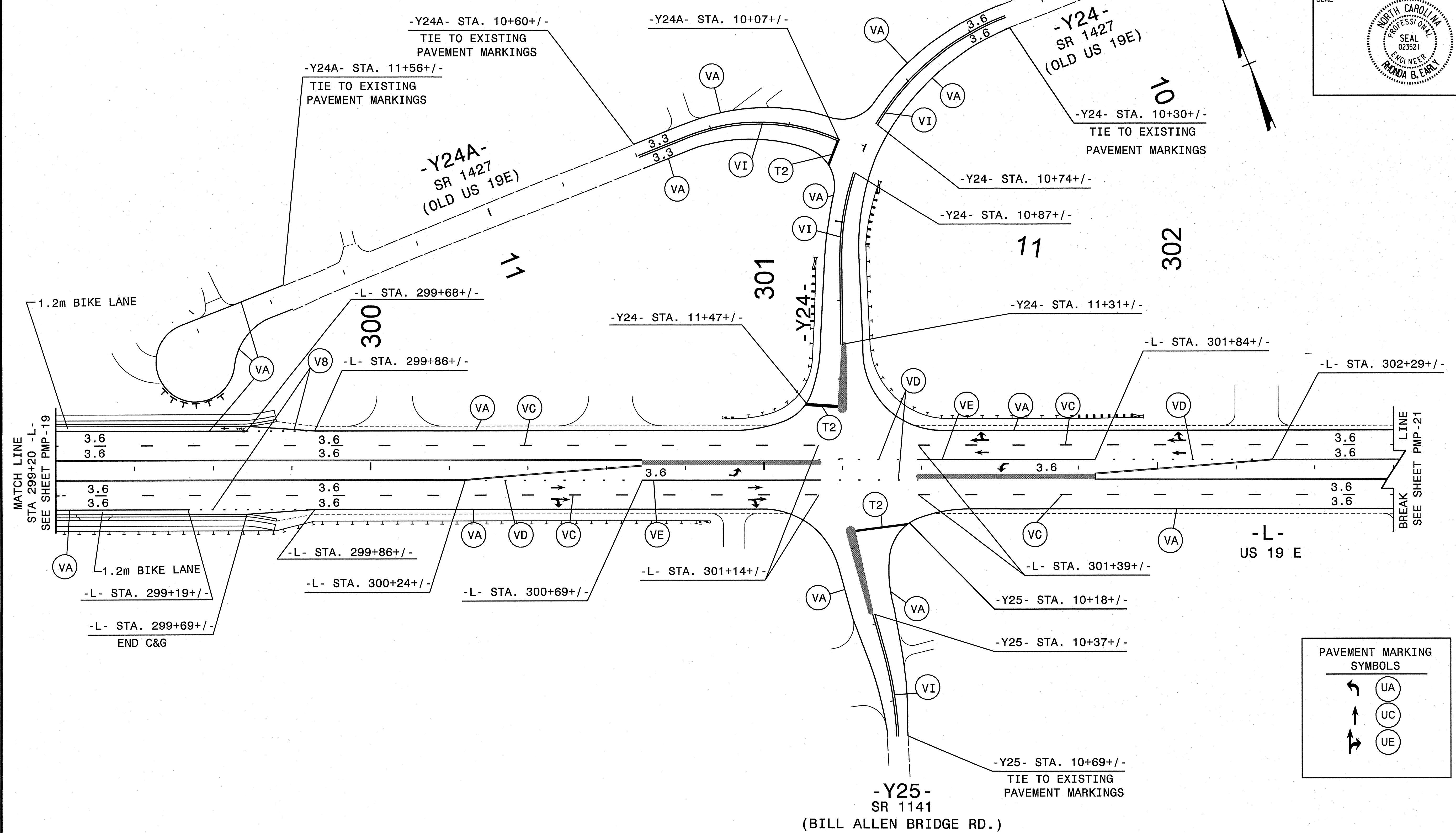
**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

12/29/2010 2:25:59a TrafficControl\TCP\2519a\_tc.pmp19.dgn  
 USER:NAME



TIP NO. R-2519A	SHEET NO. PMP-20
APPROVED: <i>Shonda B. Early</i>	
DATE: 12/29/10	
SEAL	



PAVEMENT MARKING SYMBOLS

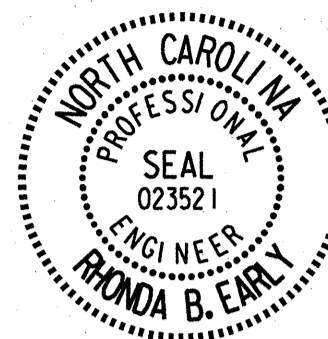
	UA
	UC
	UE

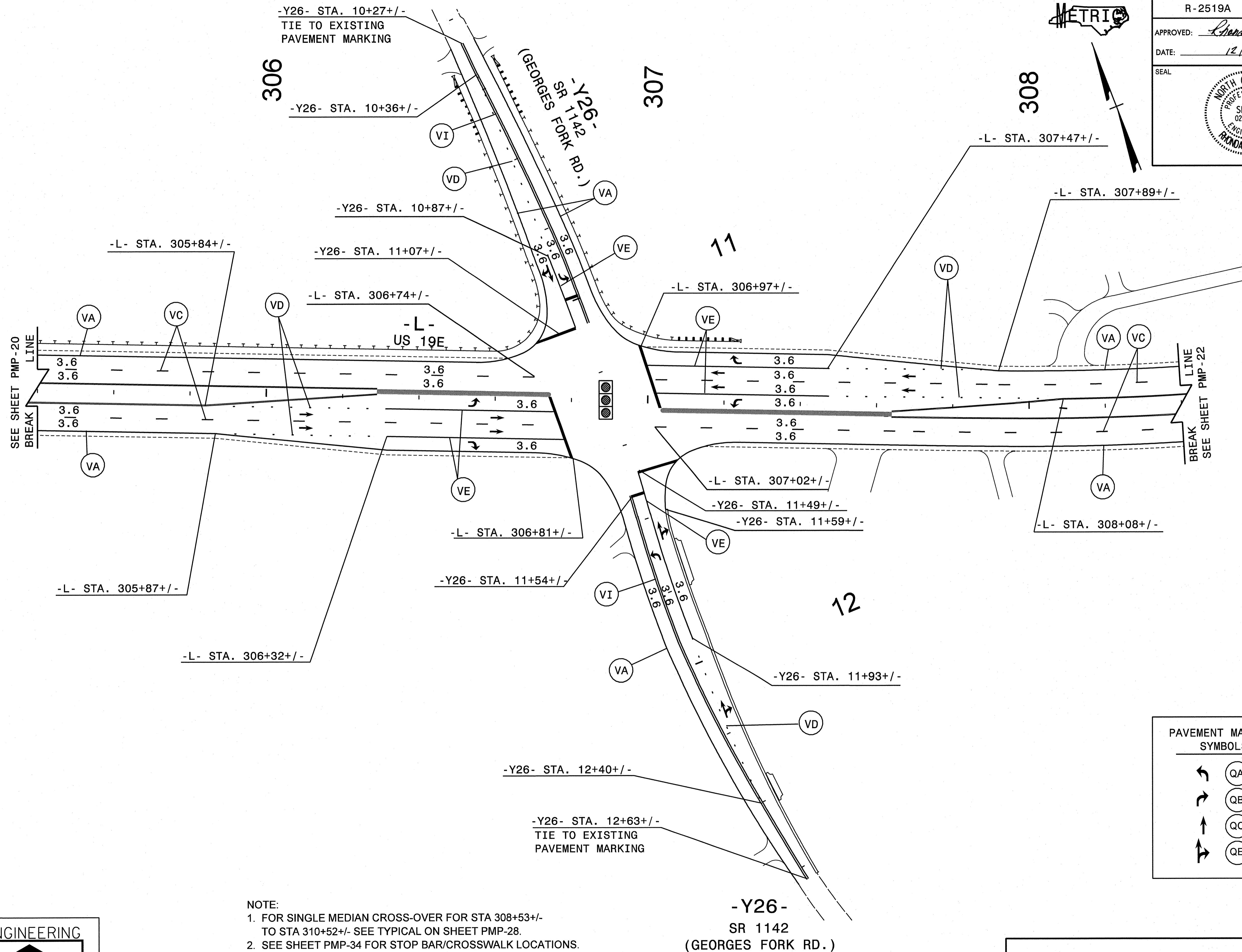
**CH ENGINEERING**

PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

R:\2519A\2519A\TrafficControl\TCP\2519a\_tc\_pm20.dgn  
 USER:NAME

TIP NO. R-2519A	SHEET NO. PMP-21
APPROVED: <i>Shonda B. Early</i>	
DATE: 12/22/10	
SEAL	
	



- NOTE:
1. FOR SINGLE MEDIAN CROSS-OVER FOR STA 308+53+/- TO STA 310+52+/- SEE TYPICAL ON SHEET PMP-28.
  2. SEE SHEET PMP-34 FOR STOP BAR/CROSSWALK LOCATIONS.

PAVEMENT MARKING SYMBOLS	
	QA
	QB
	QC
	QE

**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

12/29/2010 11:58:00 AM R2519a\_TrafficControl\TC\PC\Y2519a\_tc.pml2.dgn

**FINAL PAVEMENT MARKING PLANS**

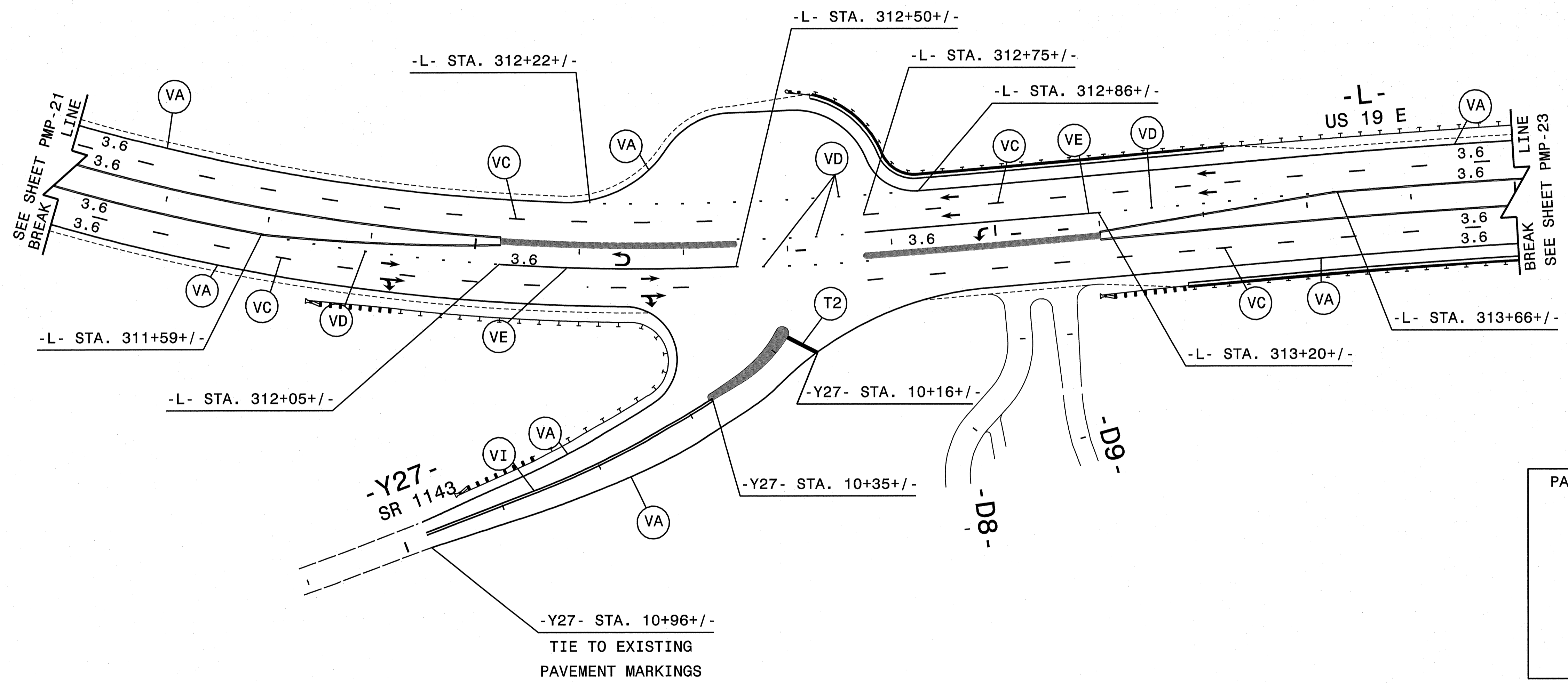


TIP NO. R-2519A	SHEET NO. PMP-22
APPROVED: <i>Rhonda B. Early</i>	
DATE: 12/29/10	
SEAL	

312

313

314



PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

NOTE:  
FOR SINGLE MEDIAN CROSS-OVER FROM STA 308+53+/-  
TO STA 310+52+/- SEE TYPICAL ON SHEET PMP-28.

**FINAL PAVEMENT MARKING PLANS**

**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

P:\2519A\2519a\Traffic\TrafficControl\TCP\2519a\_tc\_pm22.dgn  
 USER:NAME

316

-Y29-  
SR 1427  
(OLD US 19 E)

-Y29- STA. 11+00+/-  
TIE TO EXISTING  
PAVEMENT MARKINGS  
-Y29- STA. 11+27+/-

-D21-

-Y29- STA. 11+15+/-

VC

TT

VI

VA

VB

TT

T2

3.6

3.6

3.6

3.6

MATCH LINE  
STA 317+20 -L-  
THIS SHEET

BREAK  
SEE SHEET PMP-22  
LINE

3.6

3.6

3.6

3.6

VI

VA

VA

T2

-Y28- STA. 10+15+/-

-Y28- STA. 10+68+/-

TIE TO EXISTING  
PAVEMENT MARKINGS

-Y28-  
SR 1144  
(BEAR WALLOW RD.)

-Y30- STA. 10+28+/-  
TIE TO EXISTING  
PAVEMENT MARKINGS

-Y30- STA. 10+83+/-

-Y30- STA. 11+01+/-

-L-  
US 19 E

VC

VA

MATCH LINE  
STA 317+20 -L-  
THIS SHEET

3.6

3.6

3.6

3.6

VC

VA

VD

3.6

3.6

3.6

3.6

-L- STA. 317+81+/-

-L- STA. 317+36+/-

VE

-L- STA. 318+33+/-

-L- STA. 318+26+/-

VD

-L- STA. 318+66+/-

T2

VI

VA

VA

318

-Y30-

319

-L- STA. 318+52+/-

-L- STA. 318+96+/-

-L- STA. 319+41+/-

VE

VA

VC

VD

3.6

3.6

3.6

3.6

BREAK  
SEE SHEET PMP-24  
LINE

PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE
	UH



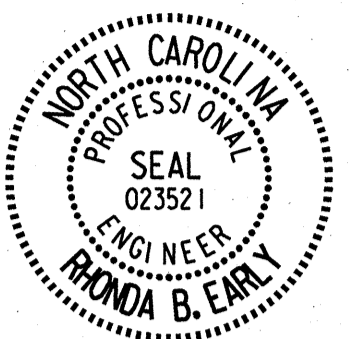
TIP NO. R-2519A	SHEET NO. PMP-23
APPROVED: <i>Shanda S. Early</i>	
DATE: 12-29-10	
SEAL	

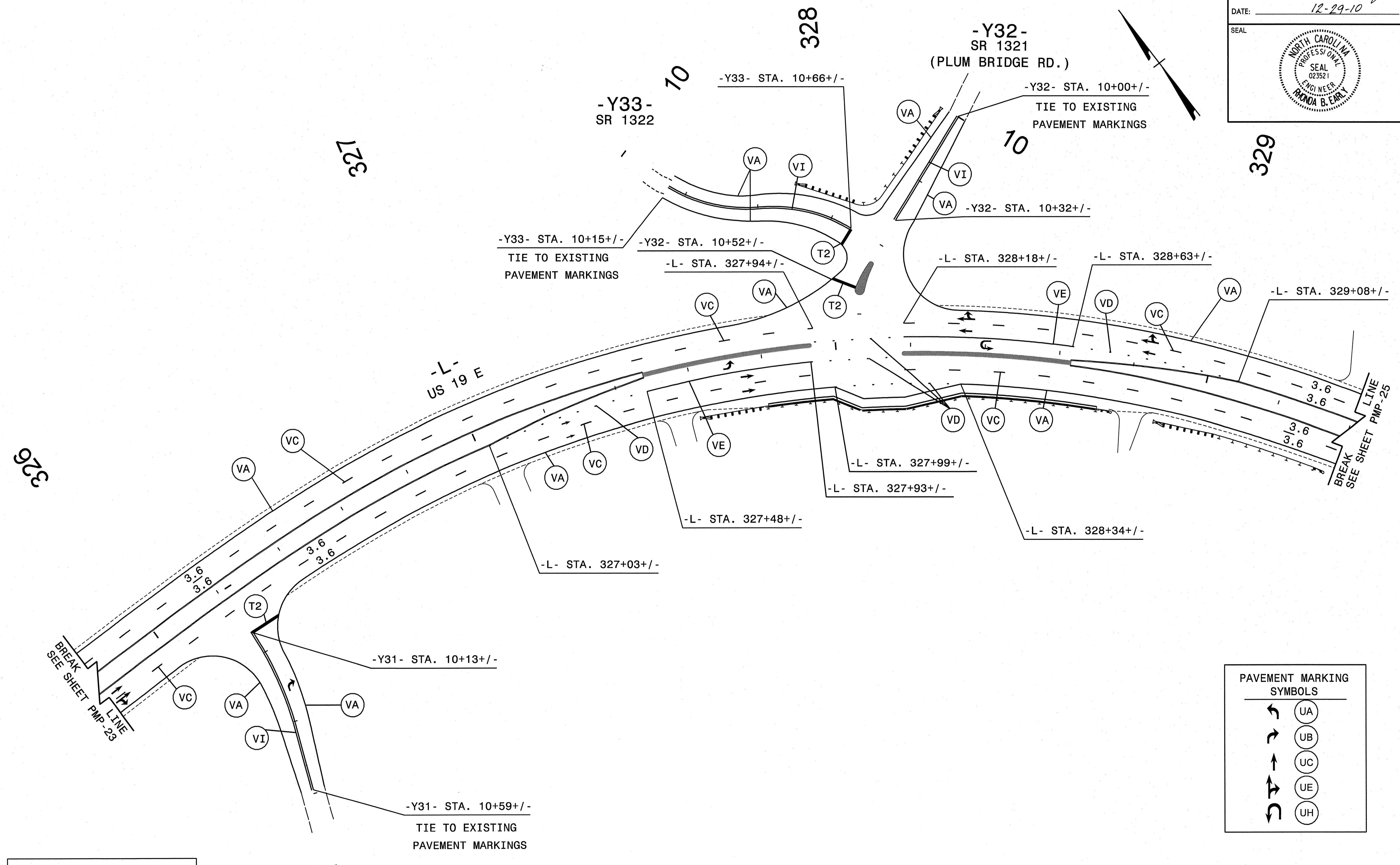
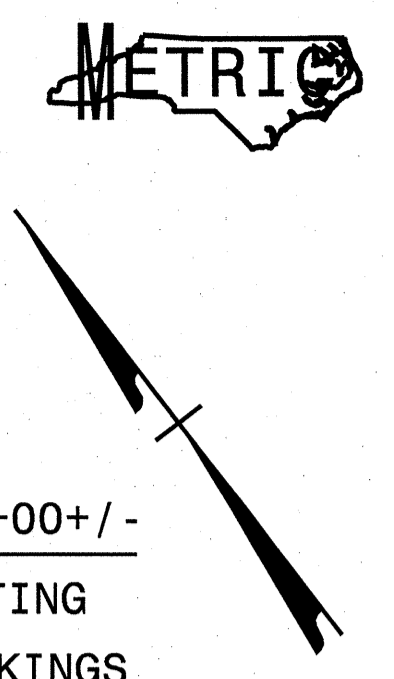
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USER:NAME






**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**



TIP NO. R-2519A	SHEET NO. PMP-24
APPROVED: <i>Shonda S. Early</i>	
DATE: 12-29-10	
SEAL	
	



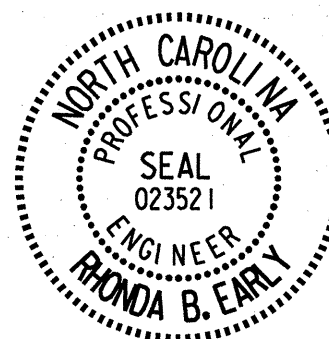
PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE
	UH

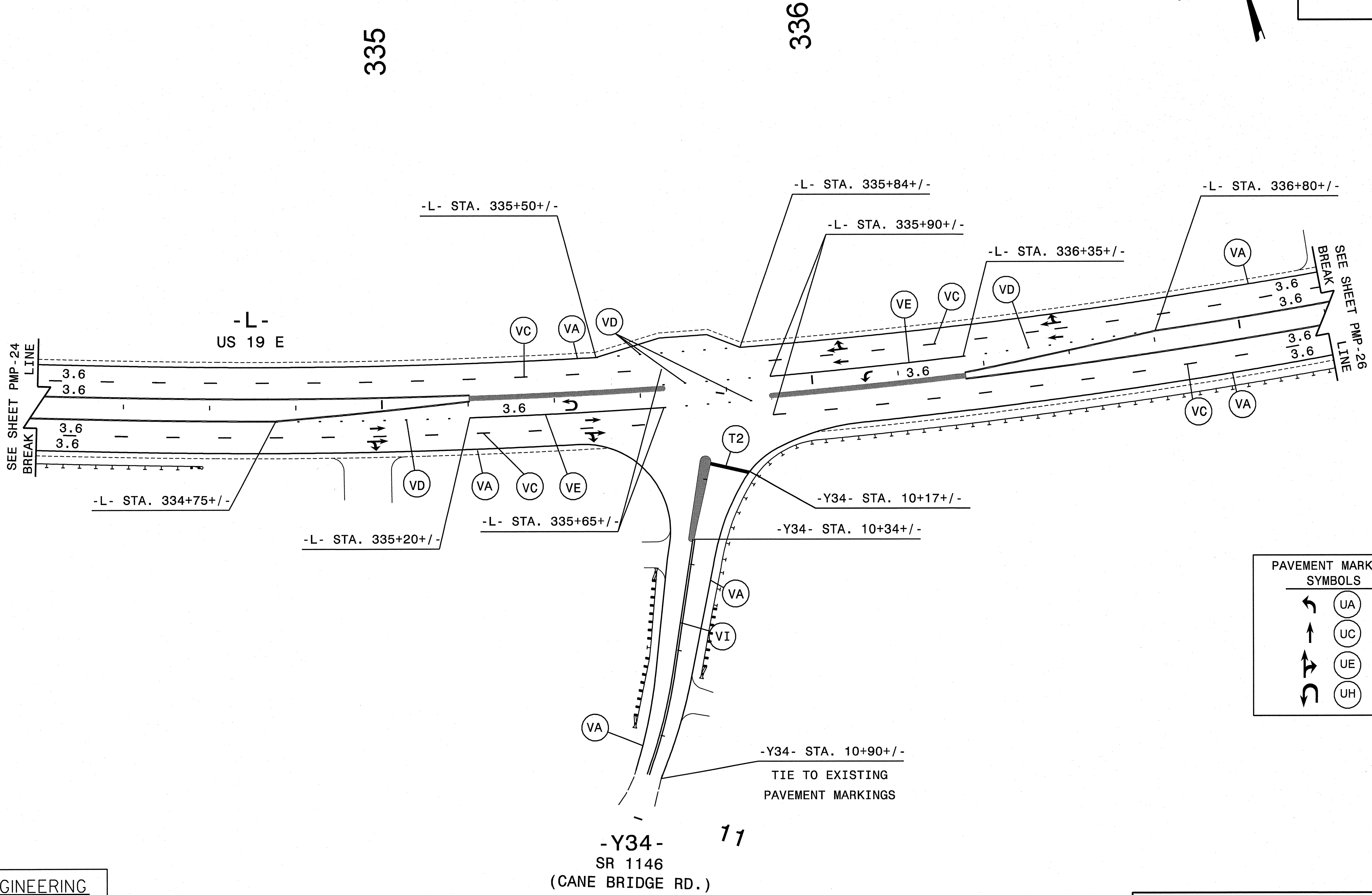
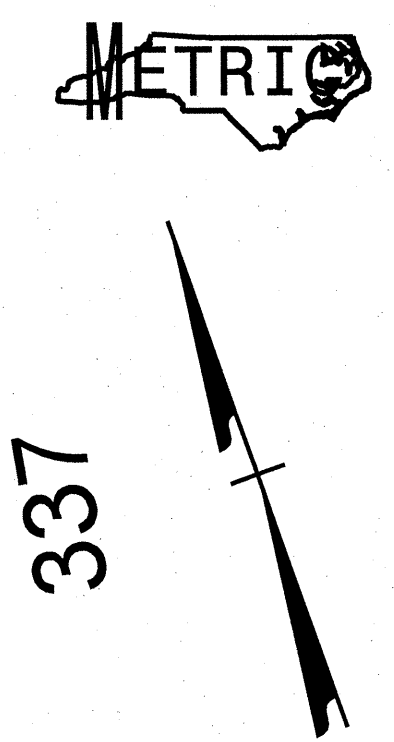
**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189





**-Y31-  
SR 1144  
(BEAR WALLOW RD.)**

**FINAL PAVEMENT MARKING PLANS**

12/29/2010 Y:\NGDD01\R2519a\TrafficControl\TCP\R2519a\_tc\_pm24.dgn \_USERNAME\_

TIP NO. R-2519A	SHEET NO. PMP-25
APPROVED: <i>Shonda B. Early</i>	
DATE: 12-29-10	
SEAL	
	



PAVEMENT MARKING SYMBOLS	
	UA
	UC
	UE
	UH

**CH ENGINEERING**

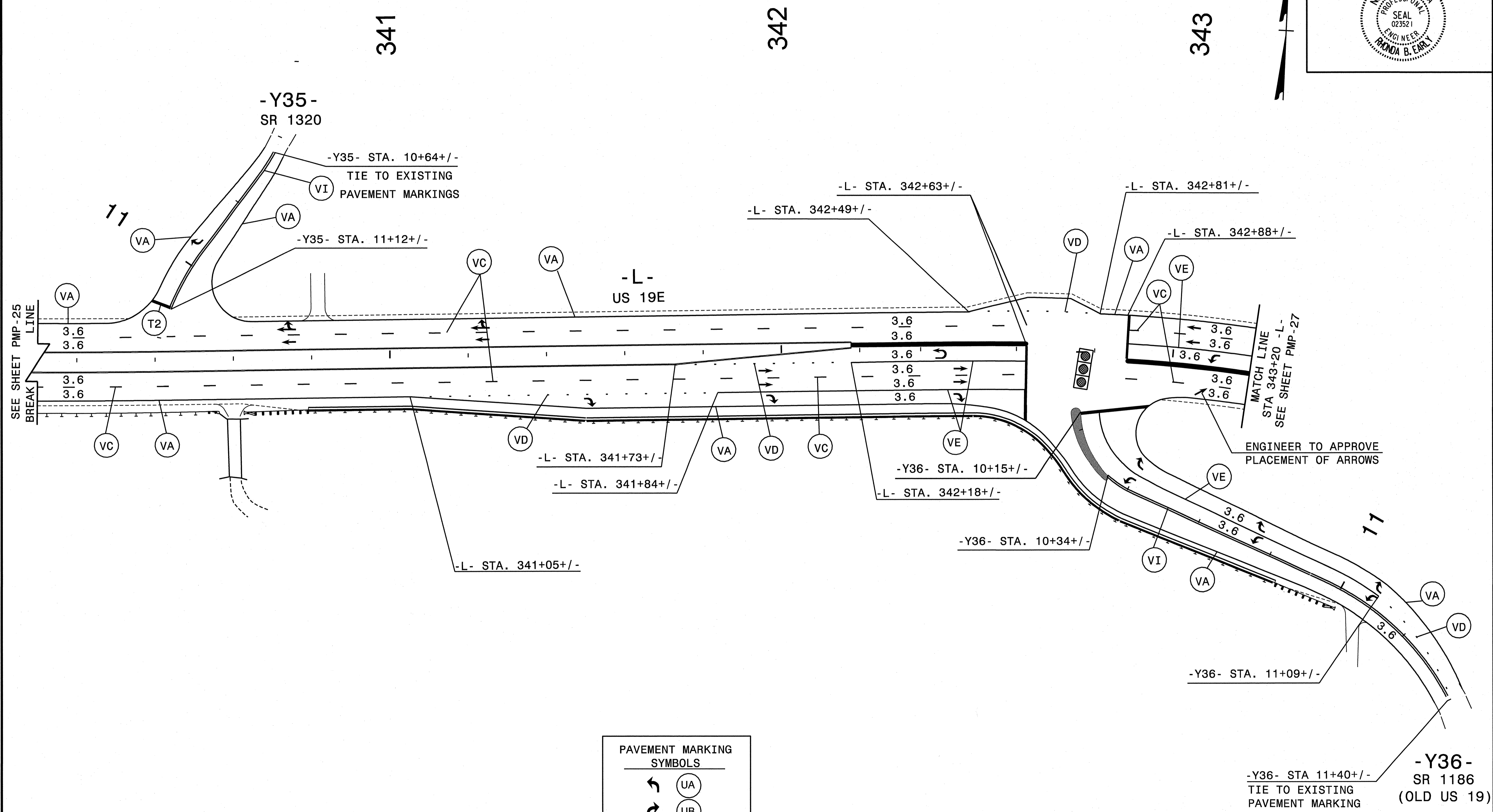
PO BOX 30128      TELE 919.788.0224  
 RALEIGH, NC 27622      FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

R:\2519A\2519A\Traffic\TrafficControl\TCP\2519a\_tc.pmp25.dgn  
 USERNAME:



TIP NO. R-2519A	SHEET NO. PMP-26
APPROVED: <i>Shonda S. Early</i>	
DATE: 12-19-10	
SEAL	



SEE SHEET PMP-25  
BREAK  
LINE

MATCH LINE  
STA 343+20 -L-  
SEE SHEET PMP-27

ENGINEER TO APPROVE  
PLACEMENT OF ARROWS

PAVEMENT MARKING SYMBOLS	
	UA
	UB
	UC
	UE
	UH

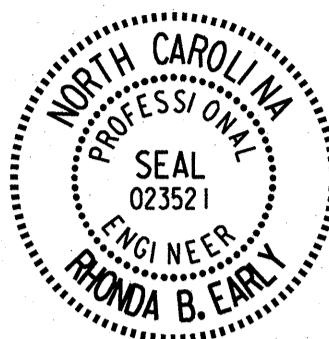
NOTE  
1. SEE SHEET PMP-35 FOR STOP BAR LOCATIONS.

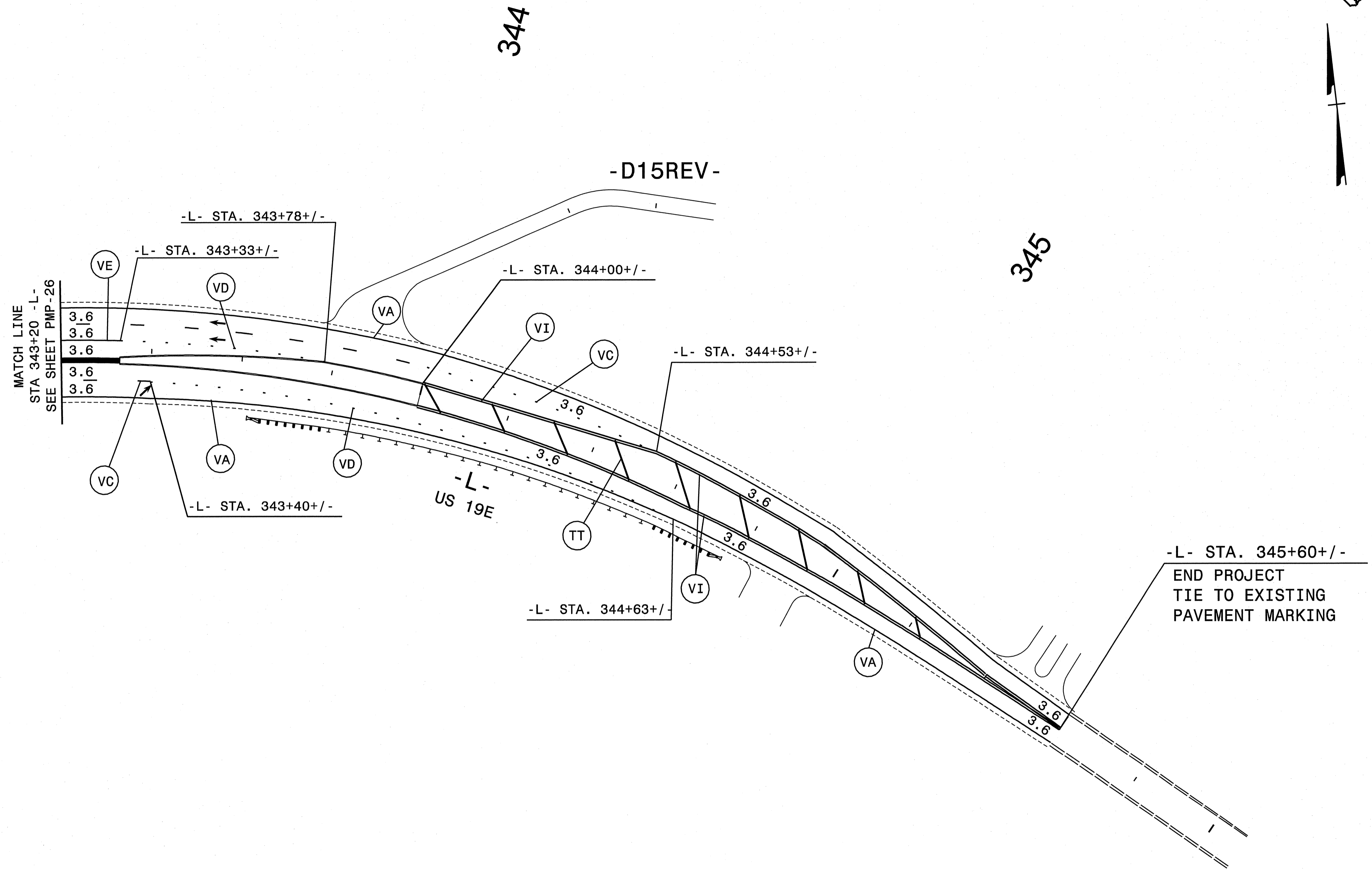
**FINAL PAVEMENT MARKING PLANS**

**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

P:\2519A\2519a\Traffic\TrafficControl\TCP\2519a\_tc\_pm26.dgn  
 USER:NAME



TIP NO. R-2519A	SHEET NO. PMP-27
APPROVED: <i>Shonda J. Early</i>	
DATE: 12-29-10	
SEAL	
	



346

PAVEMENT MARKING SYMBOLS	

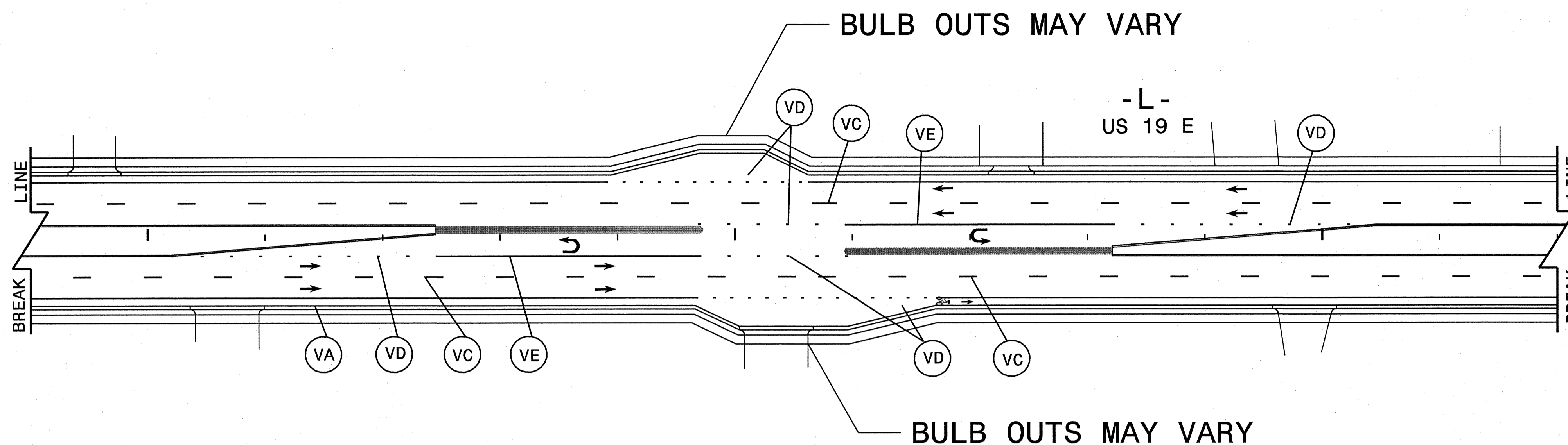
**CH ENGINEERING**  
 PO BOX 30128    TELE 919.788.0224  
 RALEIGH, NC 27622    FAX 919.788.0232  
 NC LICENSE # P-0189

**FINAL PAVEMENT MARKING PLANS**

I:\29\2010\Y:\NC001\R2519a\TrafficControl\TCP\R2519a\_tc.pml27.dgn  
USER:NAME

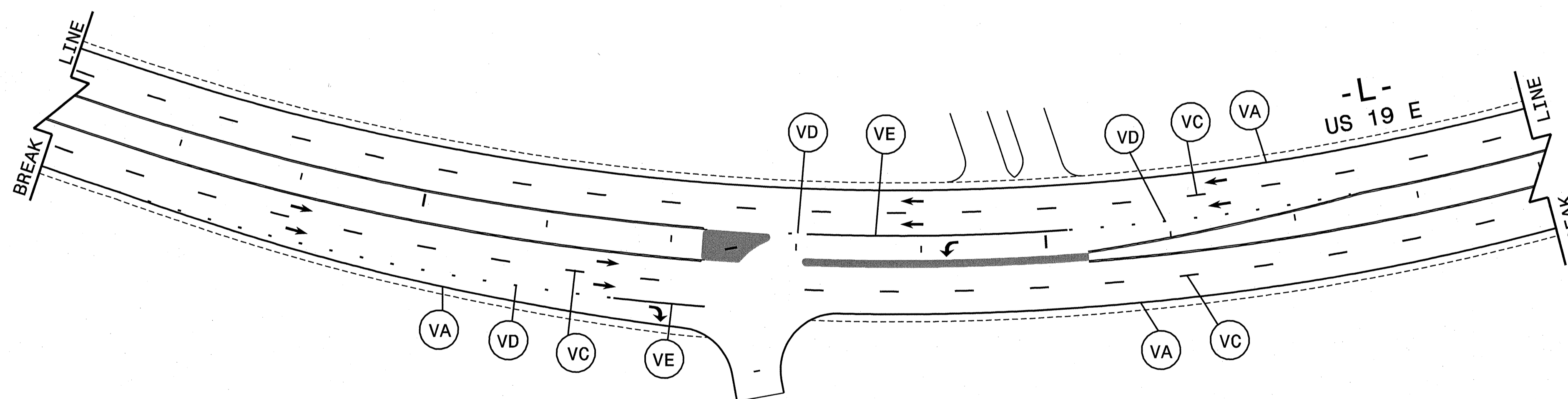


PROJ. REFERENCE NO. R-2519A	SHEET NO. PMP-28
--------------------------------	---------------------



TYPICAL FOR DOUBLE MEDIAN CROSS-OVER  
USE IN THE FOLLOWING LOCATIONS:

- L- FROM STA 259+04+/- TO STA 261+09+/-
- L- FROM STA 270+61+/- TO STA 272+66+/-
- L- FROM STA 281+02+/- TO STA 283+08+/-



TYPICAL FOR SINGLE MEDIAN CROSS-OVER  
USE IN THE FOLLOWING LOCATIONS:

- L- FROM STA 308+53+/- TO STA 310+52+/-

I:\29\2010\Y:\NC\DOT\2519a\Traffic\TrafficControl\TCP\2519a\_tc\_pm28.dgn  
USERNAME

**CH ENGINEERING**  
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 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12-29-10  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 023521  
 RONDA B. EARLY

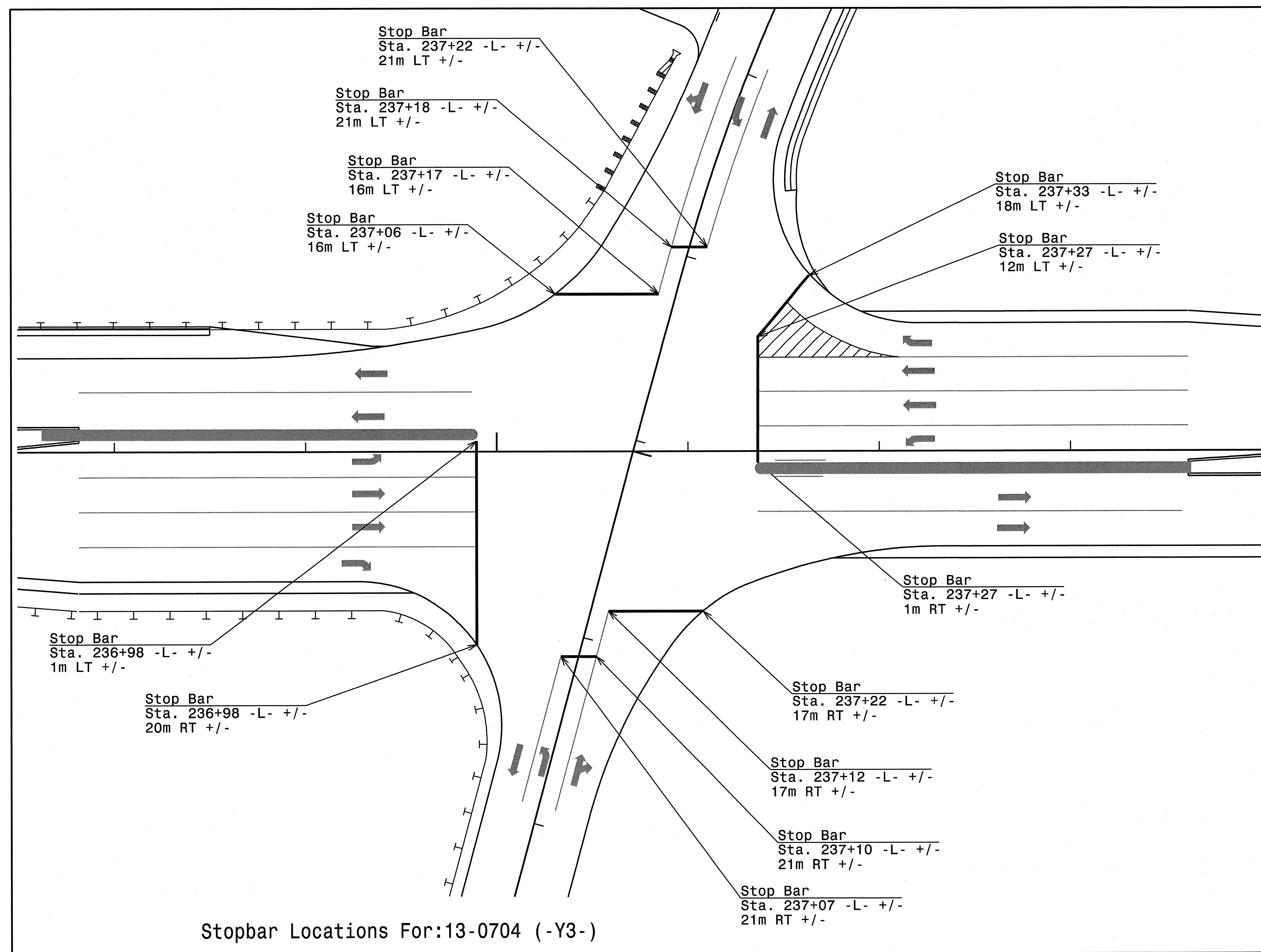
**FINAL PAVEMENT MARKING PLANS**

SCALE: 1:500		REVISIONS
DATE: 1/03/11		
DWG. BY: JAP		
DESIGN BY: JAP		
REVIEWED BY: RBE		



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-29

### STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



I:\2010\2010\2519a\Traffic\TrafficControl\TCP\2519a\_fc\_pm29\_35.dgn  
USER:NAME

NOTE:  
\* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
\* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

**CH ENGINEERING**  
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 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12-29-10  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 023521  
 RONDA B. EARLY

SHEET 1 OF 7

## FINAL PAVEMENT MARKING PLANS

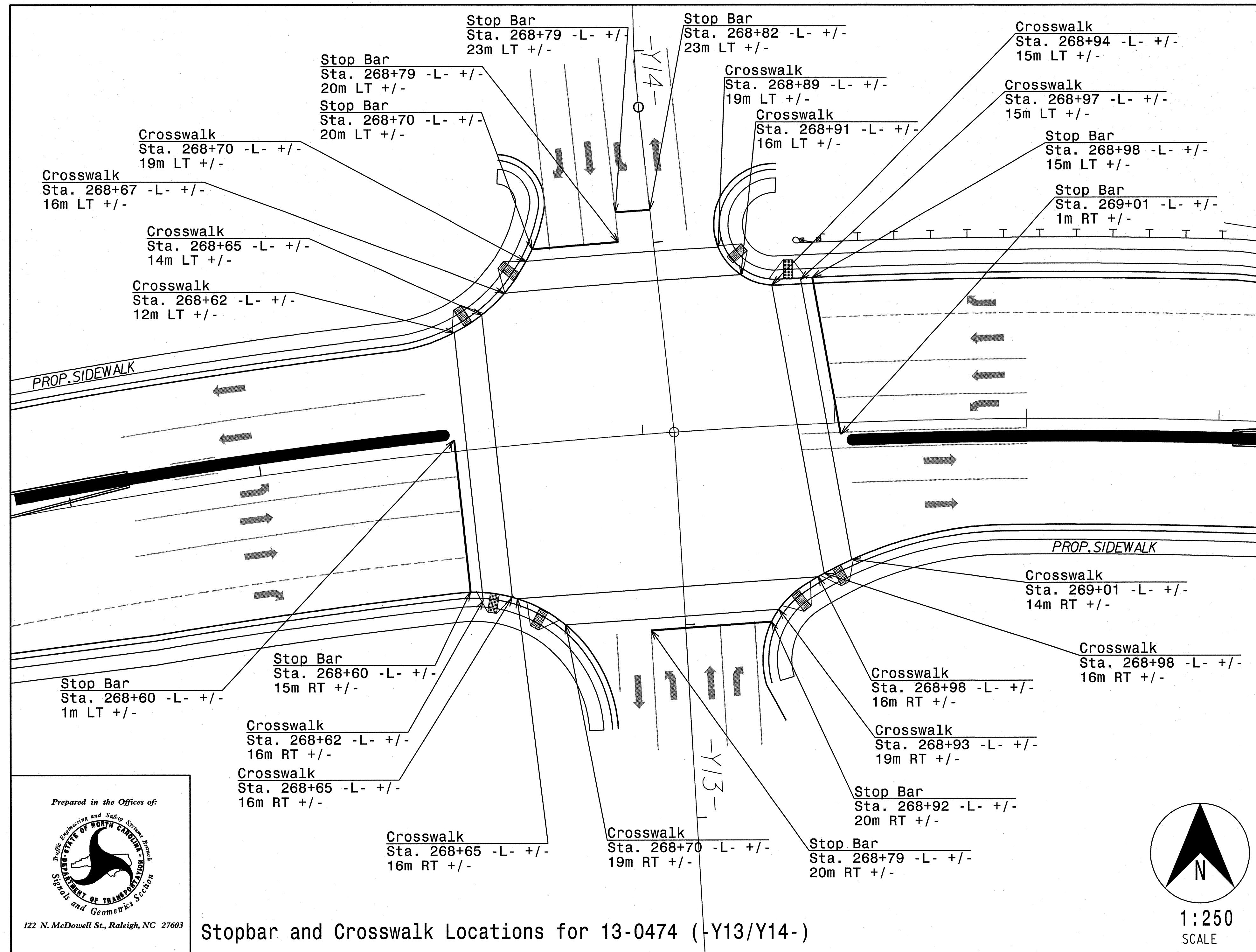
SCALE:	REVISIONS
DATE: 1/03/11	
DWG. BY: JAP	
DESIGN BY: JAP	
REVIEWED BY: RBE	

CADD FILE



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-30

# STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



Prepared in the Offices of:  
  
 122 N. McDowell St., Raleigh, NC 27603

Stopbar and Crosswalk Locations for 13-0474 (-Y13/Y14-)

NOTE:  
 \* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
 \* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12-29-10

**FINAL PAVEMENT MARKING PLANS**

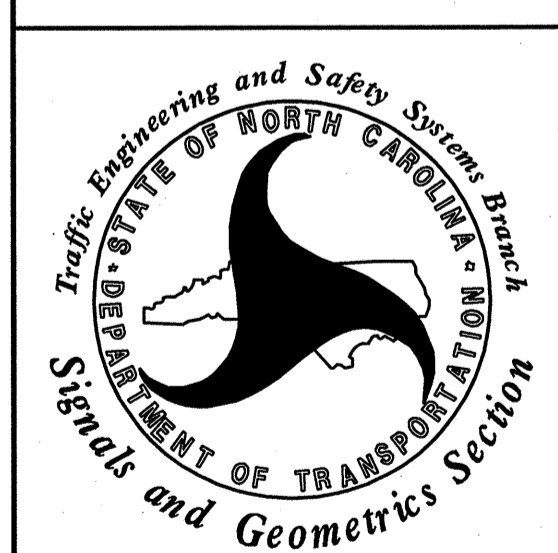
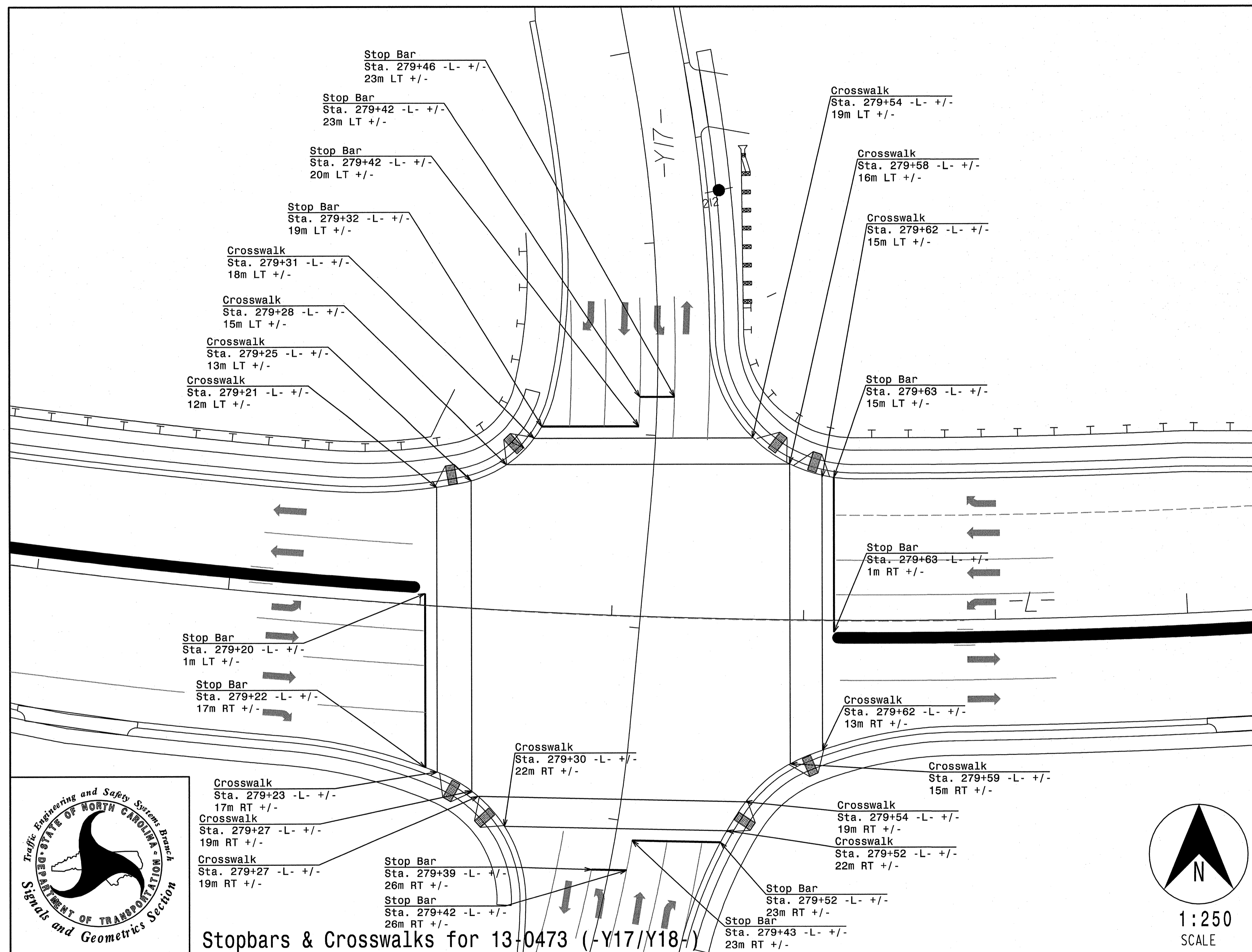
SCALE:	1/03/11	 DIVISION OF HIGHWAY CONSTRUCTION NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	REVISIONS
DWG. BY:	JAP		
DESIGN BY:	JAP		
REVIEWED BY:	RBE		

12/29/2010 11:50:01 AM r2519a\TrafficControl\TCP\2519a.tc.pml29\_35.dgn USERNAME:



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-31

# STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



Stopbars & Crosswalks for 13-0473 (-Y17/Y18-)

NOTE:  
\* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
\* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

**CH ENGINEERING**  
 PO BOX 30128 TELE 919.788.0224  
 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12-22-10  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 023521  
 RONDA B. EARRY

SHEET 3 OF 7  
**FINAL PAVEMENT MARKING PLANS**

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DWG. BY:	JAP	DESIGN BY:	JAP									
REVIEWED BY:	RBE	CADD FILE										

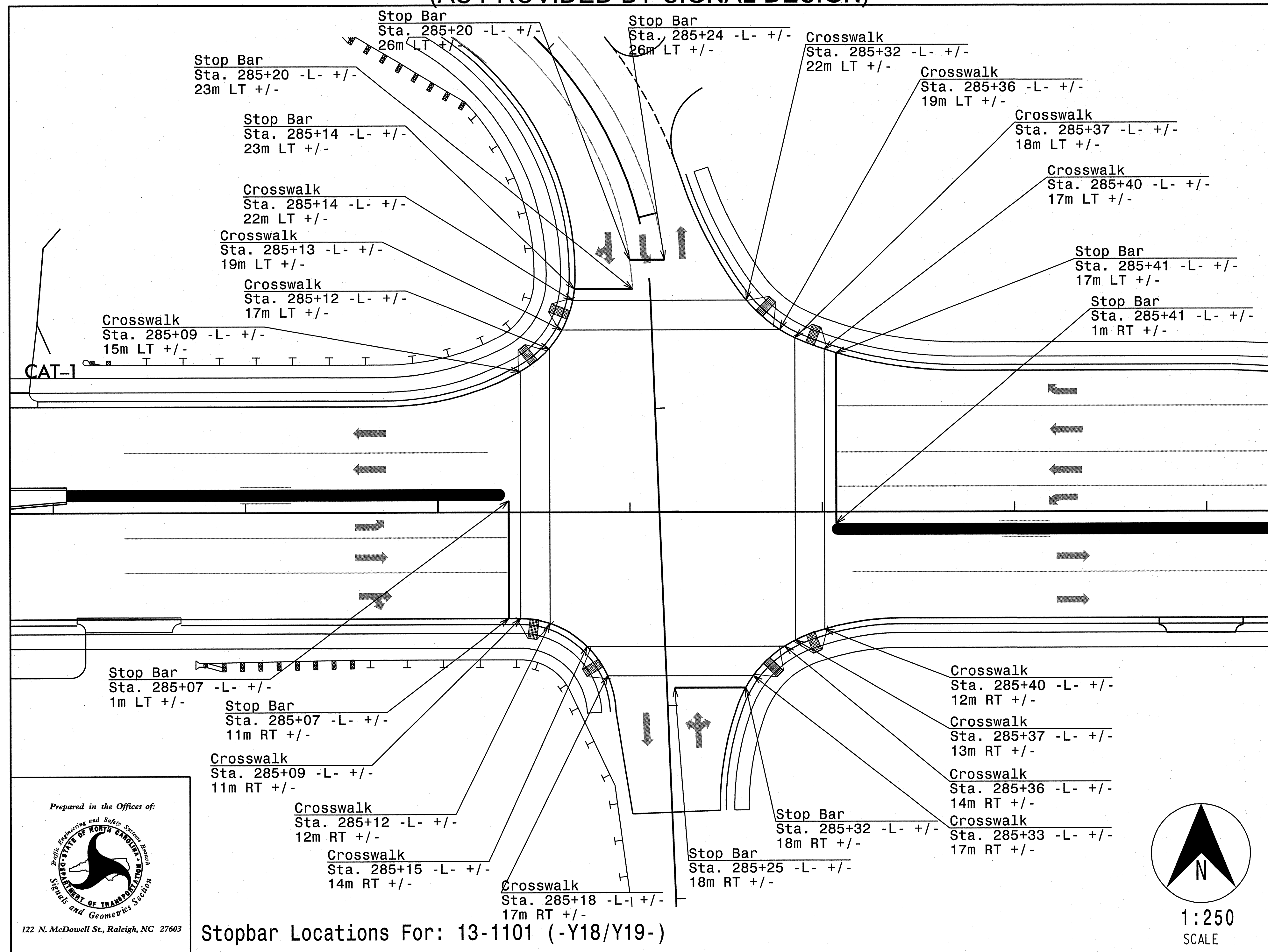
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PROJ. REFERENCE NO. R-2519A	SHEET NO. PMP-32
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### STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



NOTE:  
\* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
\* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO  
DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

**CH ENGINEERING**  
PO BOX 30128 TELE 919.788.0224  
RALEIGH, NC 27622 FAX 919.788.0232  
NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12-29-10  
SEAL  
NORTH CAROLINA  
PROFESSIONAL  
SEAL  
023521  
ENGINEER  
RONDA B. EARLY

SHEET 4 OF 7

### FINAL PAVEMENT MARKING PLANS

SCALE:	1/03/11	REVISIONS
DATE:	DWG. BY: JAP	
DESIGN BY: JAP		
REVIEWED BY: RBE		

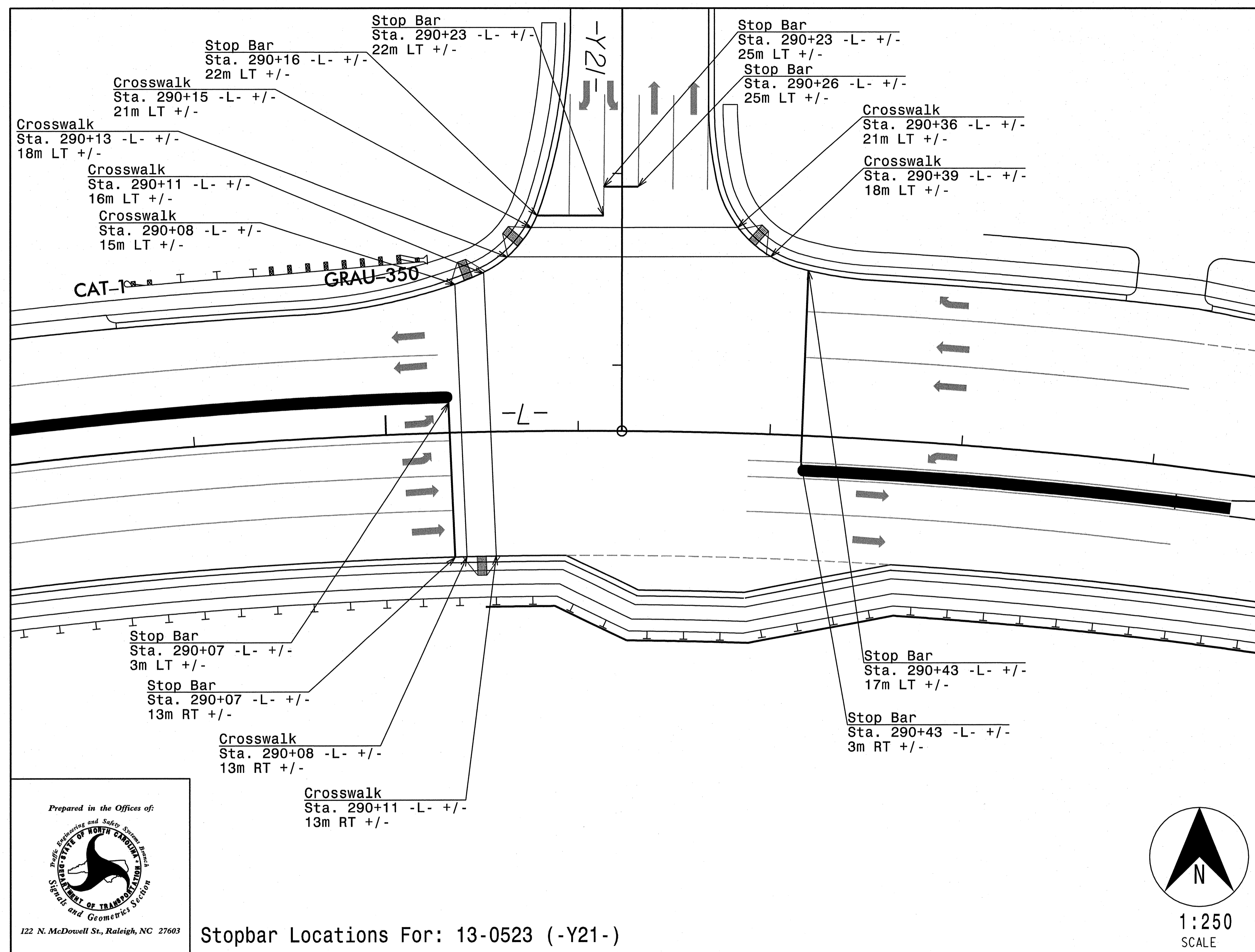
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12/29/2010  
Y:\NCDDOT\R2519a\TrafficControl\TCP\R2519a.tc.pm29\_35.dgn  
\_USERNAME



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-33

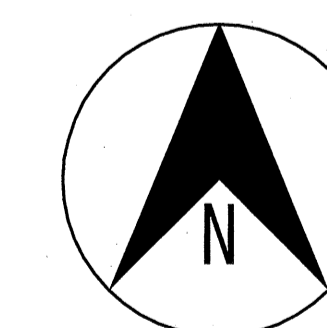
# STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



Prepared in the Offices of:

122 N. McDowell St., Raleigh, NC 27603

Stopbar Locations For: 13-0523 (-Y21-)



1:250  
SCALE

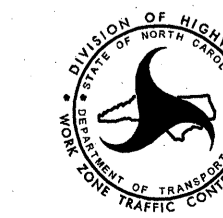
NOTE:  
\* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
\* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

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NC LICENSE # P-0189

APPROVED: *[Signature]* DATE: 12/29/10

## SHEET 5 OF 7 FINAL PAVEMENT MARKING PLANS

SCALE:	1/03/11
DATE:	1/03/11
DWG. BY:	JAP
DESIGN BY:	JAP
REVIEWED BY:	RBE



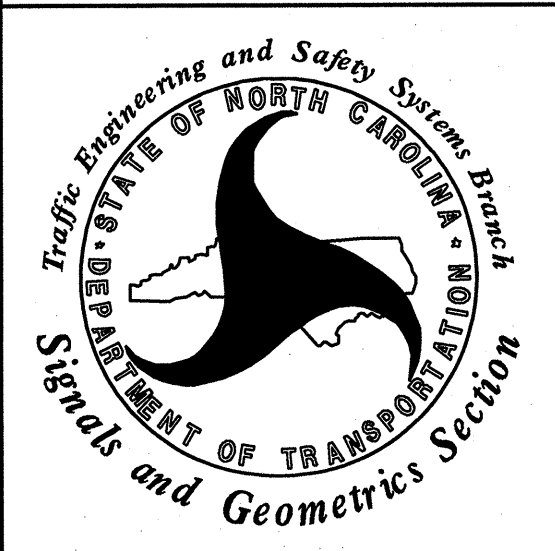
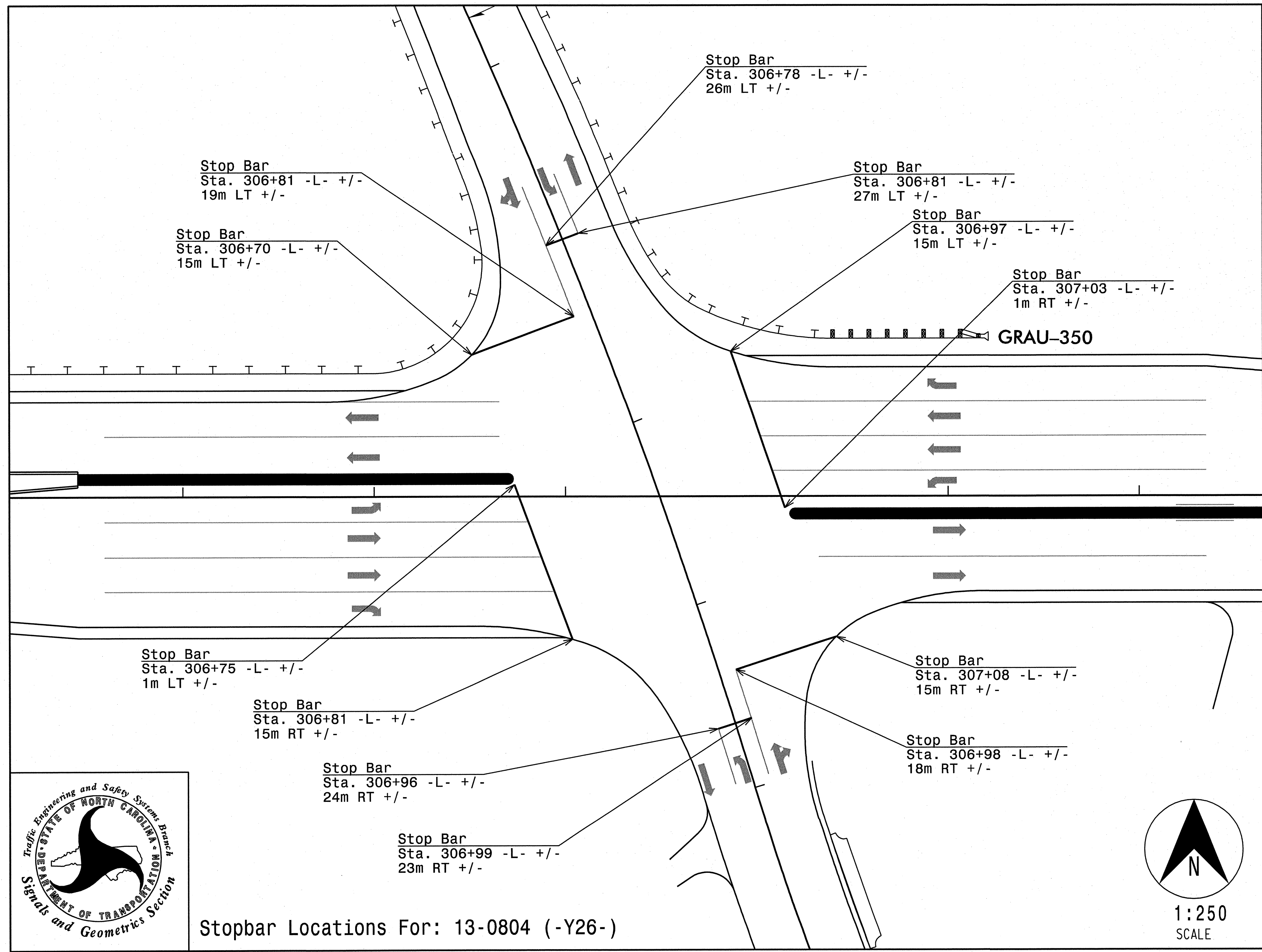
REVISIONS	

12/29/2010 Y:\NCDOT\R2519a\Traffic\TrafficControl\TCP\2519a\_fc.pm29\_35.dgn USERNAME



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-34

# STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



Stopbar Locations For: 13-0804 (-Y26-)



NOTE:  
\* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
\* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

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**CH ENGINEERING**  
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 NC LICENSE # P-0189

APPROVED: *Monica B. Early* DATE: 12-29-10  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 023521  
 MONICA B. EARLY

SHEET 6 OF 7

## FINAL PAVEMENT MARKING PLANS

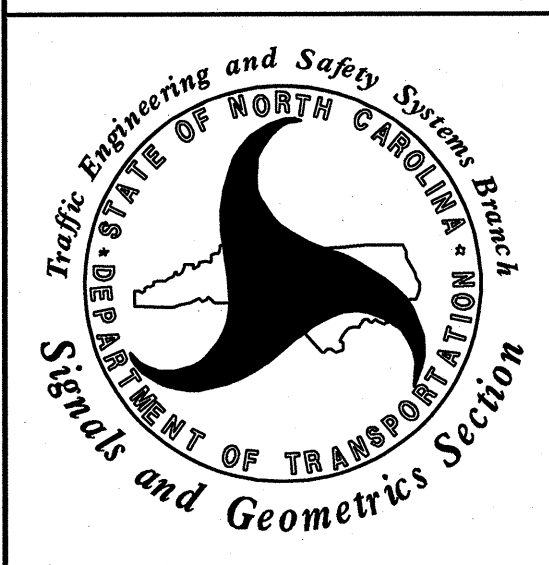
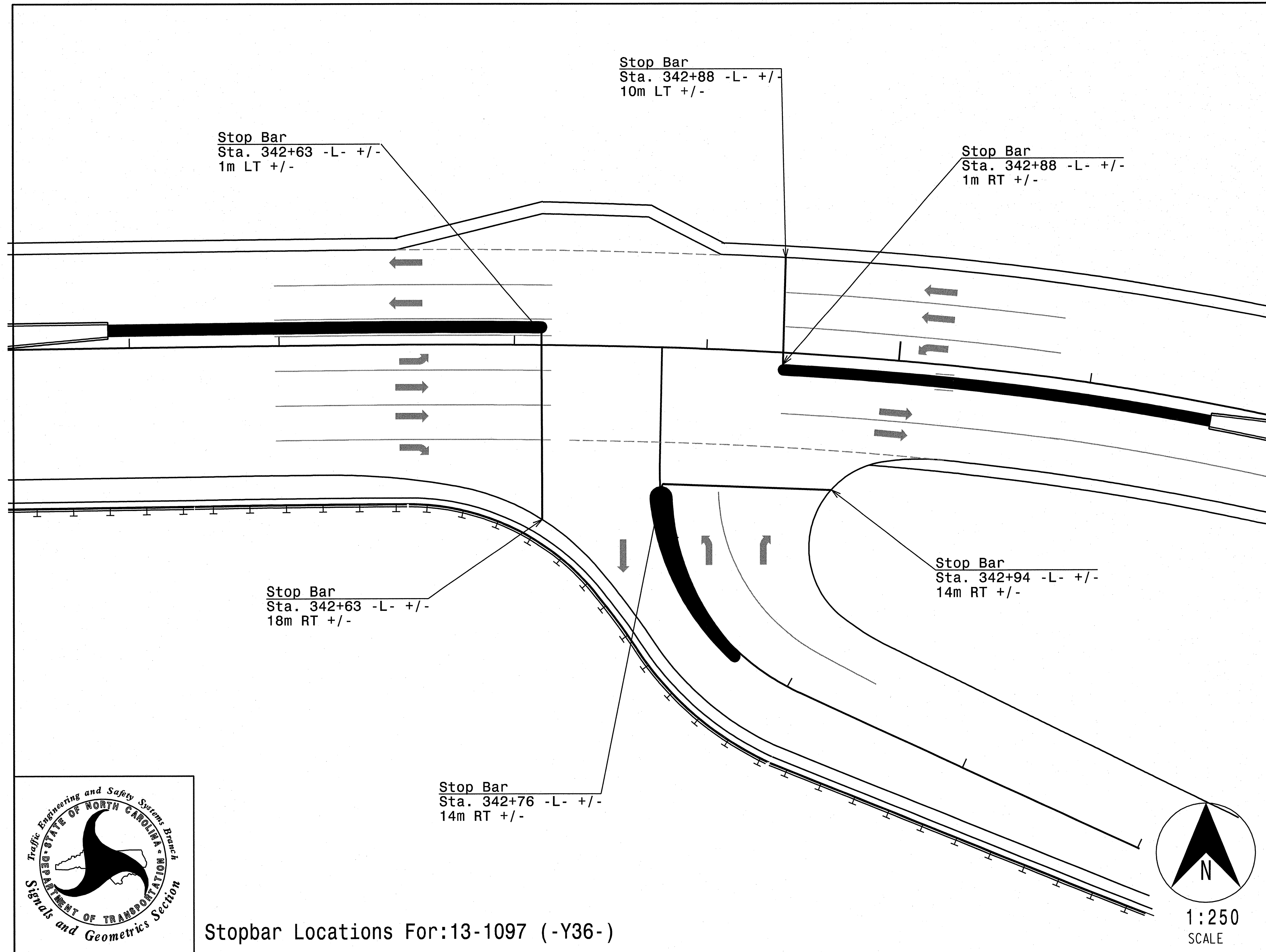
SCALE:	DATE:	1/03/11	REVISIONS
DWG. BY:	JAP		
DESIGN BY:	JAP		
REVIEWED BY:	RBE		

CAO FILE

# STOP BAR & CROSS WALK LOCATIONS FOR SIGNALIZED INTERSECTIONS (AS PROVIDED BY SIGNAL DESIGN)



PROJ. REFERENCE NO.	SHEET NO.
R-2519A	PMP-35



Stopbar Locations For:13-1097 (-Y36-)

NOTE:  
 \* THE DETAILS SHOWN HAVE BEEN PROVIDED BY SIGNAL DESIGN.  
 \* STOP BAR AND CROSSWALK LAYOUT SHOWN SHOULD BE USED TO DETERMINE WCR LOCATIONS AT SIGNALIZED INTERSECTIONS.

12/28/2010  
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 USERNAME

**CH ENGINEERING**  
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 RALEIGH, NC 27622 FAX 919.788.0232  
 NC LICENSE # P-0189

APPROVED: *Ronda B. Early* DATE: 12-29-10  
 SEAL

**FINAL PAVEMENT MARKING PLANS**

SCALE:	1/03/11		REVISIONS
DATE:	JAP		
DESIGN BY:	JAP		
REVIEWED BY:	RBE		