T.I.P.: R-2303A

CONTRACT: C202947

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
R-2303A	PMP-1

APPROVED: Ayman Alqudwah

DATE: 6/26/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

PAVEMENT MARKING PLAN
CUMBERLAND COUNTY

LOCATION: NC 24 FROM WEST OF SR 1006 (MAXWELL RD / CLINTON RD) TO SR 1853 (JOHN NUNNERY RD)

R-2303A FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	(FINAL PAVEMENT MARKINGS)
	THERMOPLASTIC (24", 120 MILS)
T2	WHITE STOPBAR
	THERMOPLASTIC (4", 120 MILS)
T8	2 FT.-6 FT./SP WHITE MINISKIP
T9	2 FT.-6 FT./SP YELLOW MINISKIP
TC	10 FT. WHITE SKIP
TD	3 FT.-9 FT./SP WHITE MINISKIP
TE	WHITE SOLID LANE LINE
TI	YELLOW DOUBLE CENTER
	THERMOPLASTIC (6", 120 MILS)
TL	WHITE SOLID LANE LINE
	THERMOPLASTIC (8", 120 MILS)
TR	WHITE SOLID LANE LINE
T13	3 FT.-9 FT./SP WHITE MINISKIP
TQ	WHITE CROSSWALK LINE
	THERMOPLASTIC (8", 90 MILS)
TN	THERMOPLASTIC WHITE GORELINE
TO	THERMOPLASTIC WHITE DIAGONAL
TP	THERMOPLASTIC YELLOW DIAGONAL
	THERMOPLASTIC (4", 90 MILS)
TA	WHITE EDGELINE
TB	YELLOW EDGELINE
	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
UA	LEFT TURN ARROW
UB	RIGHT TURN ARROW
UC	STRAIGHT ARROW
UE	COMBO STRAIGHT/RIGHT ARROW
UF	COMBO LEFT/RIGHT ARROW
UJ	BICYCLE SYMBOL
UK	BICYCLE STRAIGHT ARROW
UP	MERGE ARROW
UT	U-TURN ARROW
	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
UI	ALPHANUMERIC CHAR.
	(MARKERS)
	PERMANENT RAISED PAVEMENT MARKERS (SNOWPLOWABLE)
ME	YELLOW & YELLOW
MF	CRYSTAL & RED

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 - 2 LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOL AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	PAVEMENT MARKER SPACING
1253.01	RAISED PAVEMENT MARKERS - SNOWPLOWABLE
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
ALL	THERMOPLASTIC	SNOWPLOWABLE

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.

E) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.

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) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

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

AYMAN ALQUDWAH, PE, CPM SIGNING & DELINEATION REGIONAL ENGINEER

BASIR A. RASHID SIGNING & DELINEATION PROJECT DESIGN ENGINEER

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-1A-1B	REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING 1205.06 & 1205.08
PMP-2-16	PAVEMENT MARKING DETAIL

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brashid
AT TE247799

TIP NO.	SHEET NO.
R-2303A	PMP-1A

APPROVED: Ayman Alqudwah

DATE: 6/14/12

SEAL

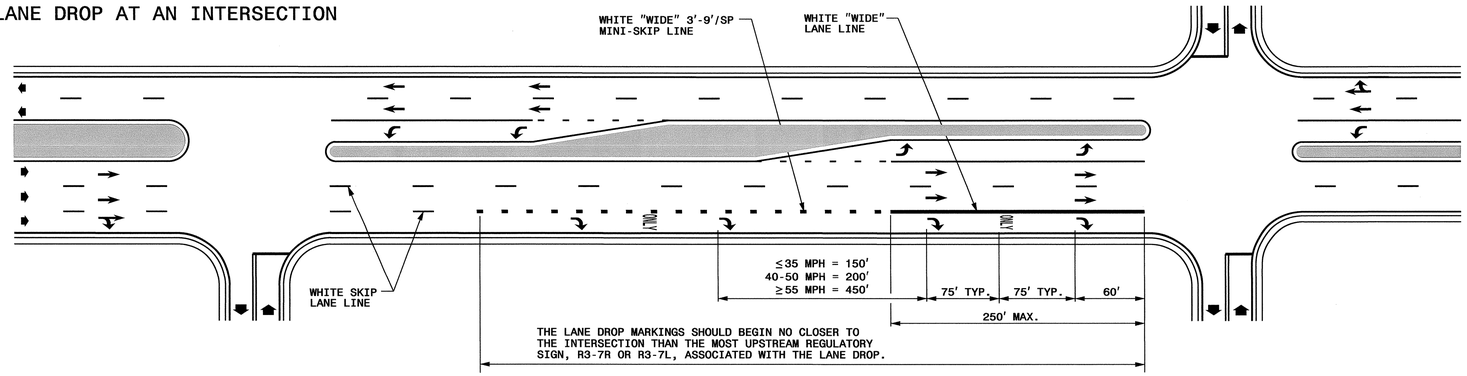
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 028387 AYMAN I. ALQUDWAH

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

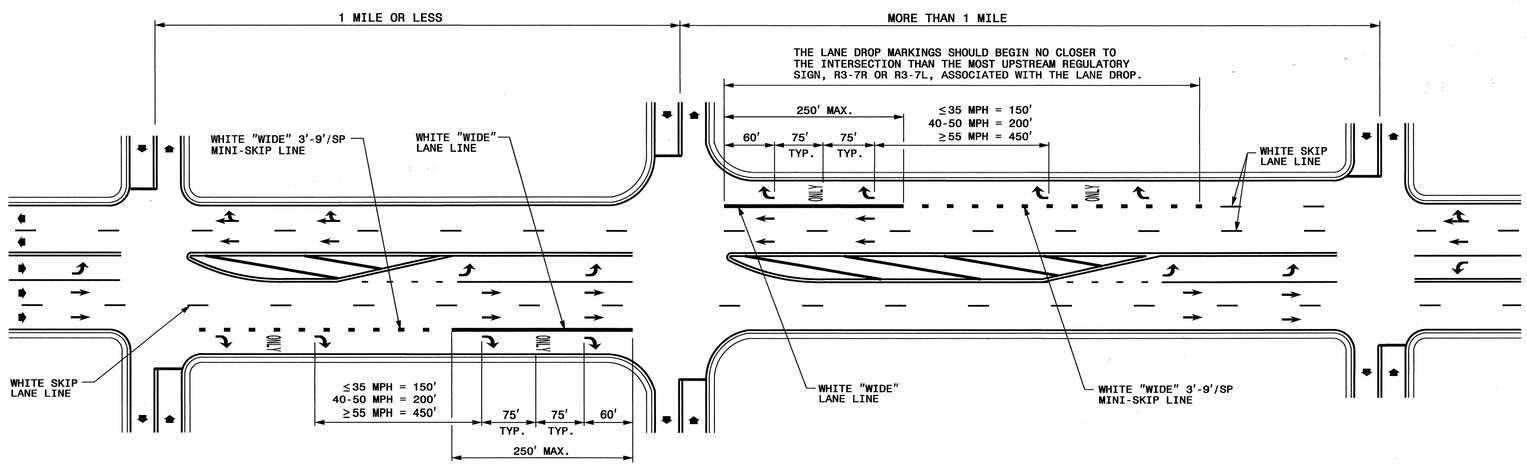
1-12

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

LANE DROP AT AN INTERSECTION



LANE DROP AT AN INTERSECTION WITH AN AUXILIARY LANE



GENERAL NOTES:

1- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH INTERSECTION GUIDANCE SHOWN ON ROADWAY STANDARD DRAWING 1205.04.

2- LANE LINES INDICATED AS "WIDE" SHALL BE AT LEAST TWICE THE WIDTH OF THE NORMAL LINE.

LEGEND

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

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

1-12

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

SHEET 1 OF 3

1205D06

SHEET 1 OF 3

1205D06

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING

31-MAY-2012 13:19
P:\TIPProjects-R\R2303A\Traffic\Signing\CADD\PMP\R-2303A_Sgn_PMP_Cover Sheet.dgn
Drashid AT TE24779

TIP NO.	SHEET NO.
R-2303A	PMP-1B

APPROVED: Ayman Alquadwan

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAN

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

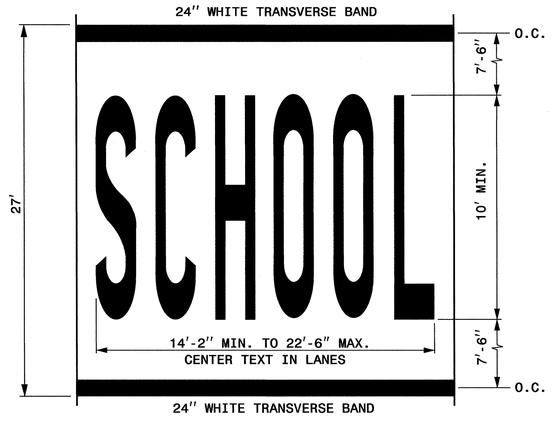
1-12

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 3 OF 8

1205D08

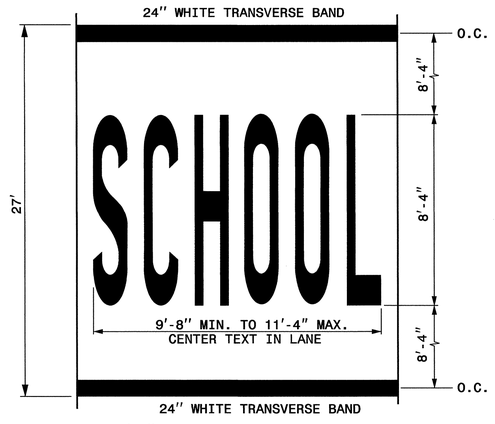
MULTI-LANE WIDTH "SCHOOL"



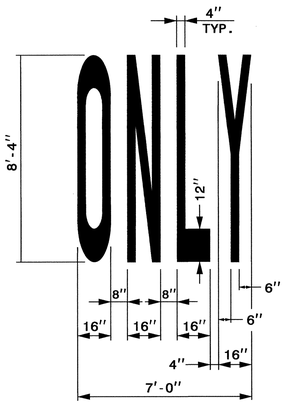
LETTER HEIGHT = 10' MIN.
LETTER WIDTH = 20"
SPACING = 10" MIN./30" MAX. (USE EQUAL SPACING BETWEEN LETTERS)

NOTE: THE TWO-LANE PAVEMENT MARKING DIMENSIONS OF "SCHOOL" SHOWN IN PART 7 OF THE MUTCD MAY ALSO BE USED.

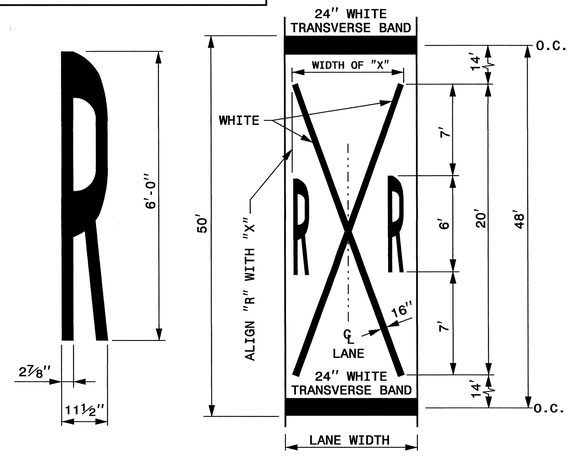
SINGLE LANE WIDTH "SCHOOL"



LETTER HEIGHT = 8'-4"
LETTER WIDTH = 16"
SPACING = 4" MIN./8" MAX. (USE EQUAL SPACING BETWEEN LETTERS)



RAILROAD RXR SYMBOL



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.

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

1-12

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

SHEET 3 OF 8

1205D08

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWING

31-MAY-2012 13:20
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brgashld AT TE247793

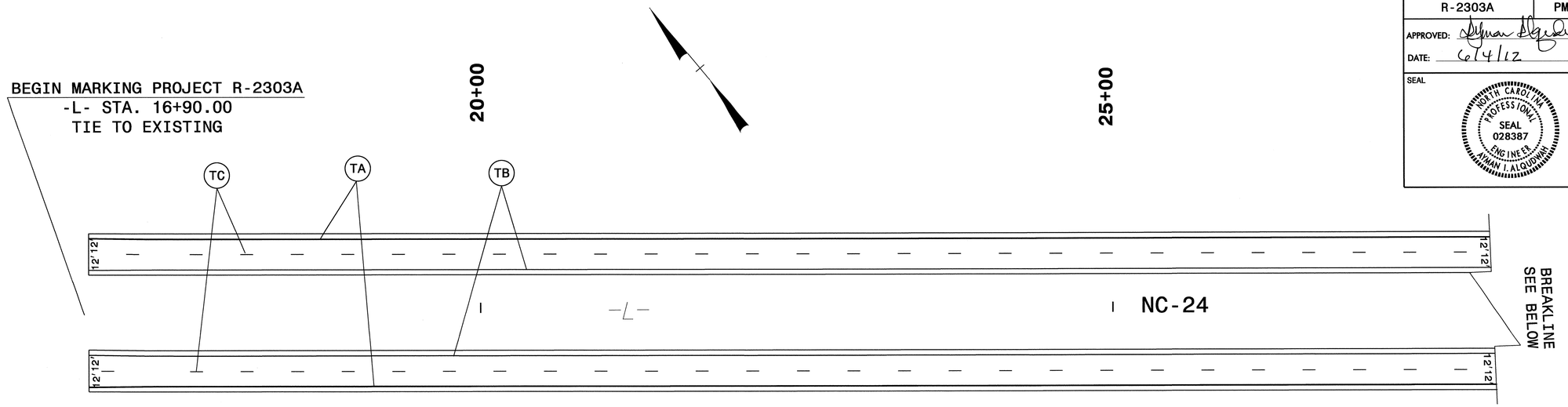
TIP NO.	SHEET NO.
R-2303A	PMP-2

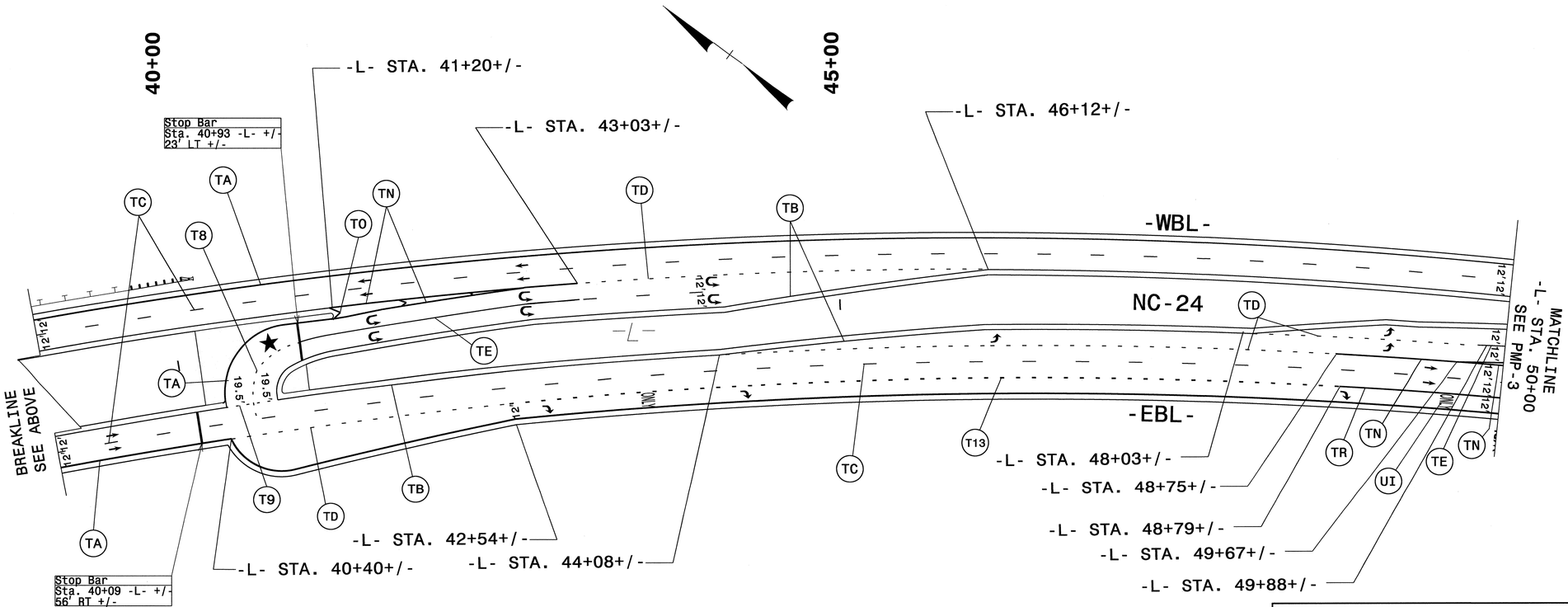
APPROVED: Lyman Alqudwah

DATE: 6/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER LYMAN I. ALQUDWAH





PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-2303A	PMP-3

APPROVED: _____

DATE: 7/18/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH

MATCHLINE -Y1- STA. 18+00 SEE BELOW

MATCHLINE -Y- STA. 24+00 SEE BELOW

-Y1- HUMMINGBIRD PL (SR-1885)

-Y- MAXWELL RD (SR-1006)

-Y- STA. 17+86 +/-
TIE TO EXISTING PAVEMENT MARKINGS

-Y- STA. 18+73+/-

-Y1- STA. 13+54+/-

-Y1- STA. 13+12+/-

-Y- STA. 18+92+/-

-Y1- STA. 14+50+/-

-Y1- STA. 13+50+/-

-Y1- STA. 13+25+/-

-Y1- STA. 10+48+/-

-Y- STA. 26+19+/-

-Y- STA. 24+79+/-

-Y- STA. 30+02+/-

-Y- STA. 30+94+/-

-Y- STA. 28+72+/-

MATCHLINE -Y- STA. 35+00 SEE PMP-4

MATCHLINE -Y- STA. 24+00 SEE ABOVE

MATCHLINE -L- STA. 50+00 SEE PMP-2

MATCHLINE -L- STA. 55+00 SEE STA. PMP-4

-L- STA. 51+34+/-

-L- STA. 52+22+/-

-L- STA. 50+21+/-

-L- STA. 50+87+/-

-Y- STA. 33+79+/-

-Y- STA. 35+15+/-

-L- STA. 51+64+/-

-L- STA. 51+77+/-

-L- STA. 51+91+/-

-L- STA. 53+38+/-

-L- STA. 53+04+/-

-Y- STA. 31+09+/-

-L- STA. 53+19+/-

-L- STA. 52+90+/-

-L- STA. 53+38+/-

-L- STA. 53+38+/-

-L- STA. 53+60+/-

-L- STA. 54+88+/-

-Y- STA. 26+19+/-

-Y- STA. 26+19+/-

-Y- STA. 25+56+/-

Stop Bar Sta. 51+98 -L- +/- 9' RT +/-

Stop Bar Sta. 51+53 -L- +/- 49' RT +/-

Stop Bar Sta. 51+87 -L- +/- 17' LT +/-

Stop Bar Sta. 31+76 -Y- +/- 66' RT +/-

Stop Bar Sta. 31+75 -Y- +/- 39' RT +/-

Stop Bar Sta. 32+78 -Y- +/- 42' LT +/-

Stop Bar Sta. 32+77 -Y- +/- 17' LT +/-

Stop Bar Sta. 52+37 -L- +/- 2' LT +/-

Stop Bar Sta. 52+43 -L- +/- 16' RT +/-

Stop Bar Sta. 52+99 -L- +/- 49' LT +/-

PAVEMENT MARKING DETAIL

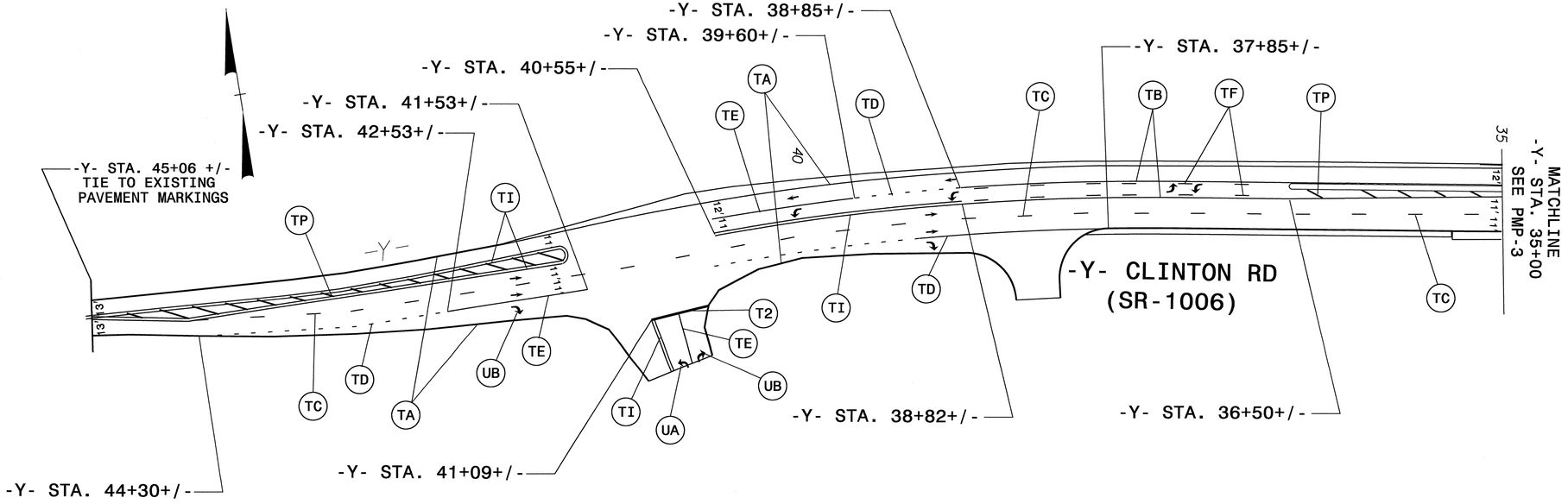
TIP NO.	SHEET NO.
R-2303A	PMP-4

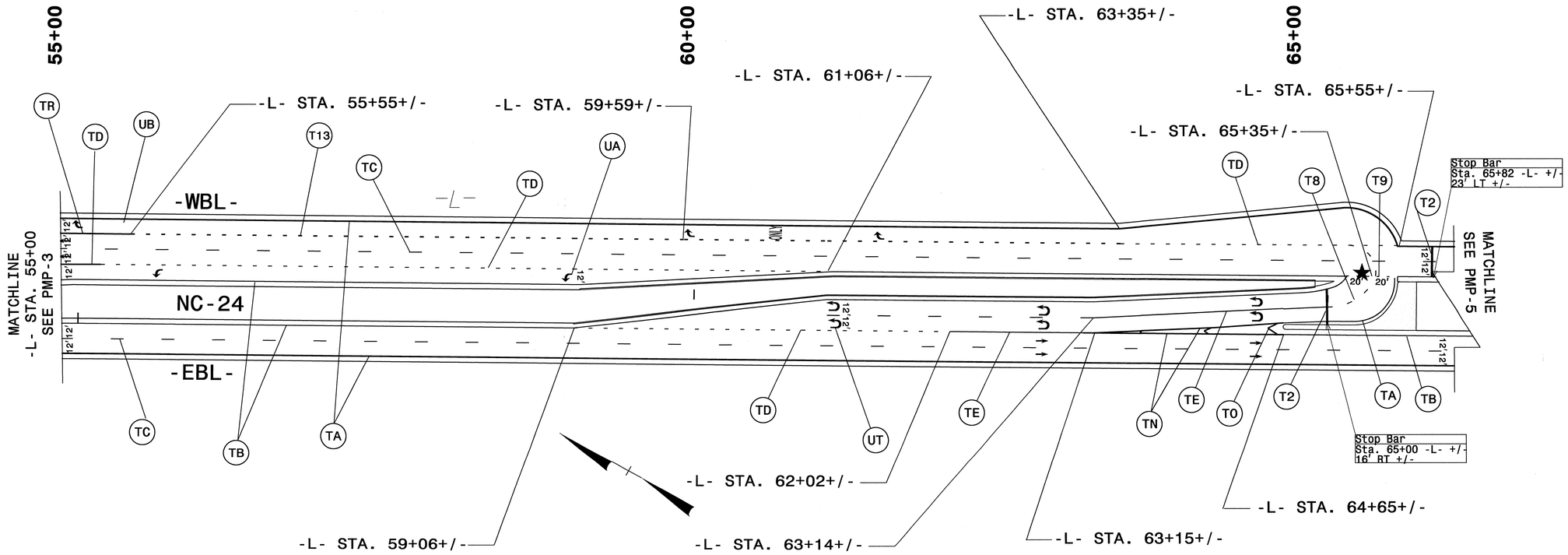
APPROVED: Ayman Alquinah

DATE: 7/18/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUINAH





PAVEMENT MARKING DETAIL

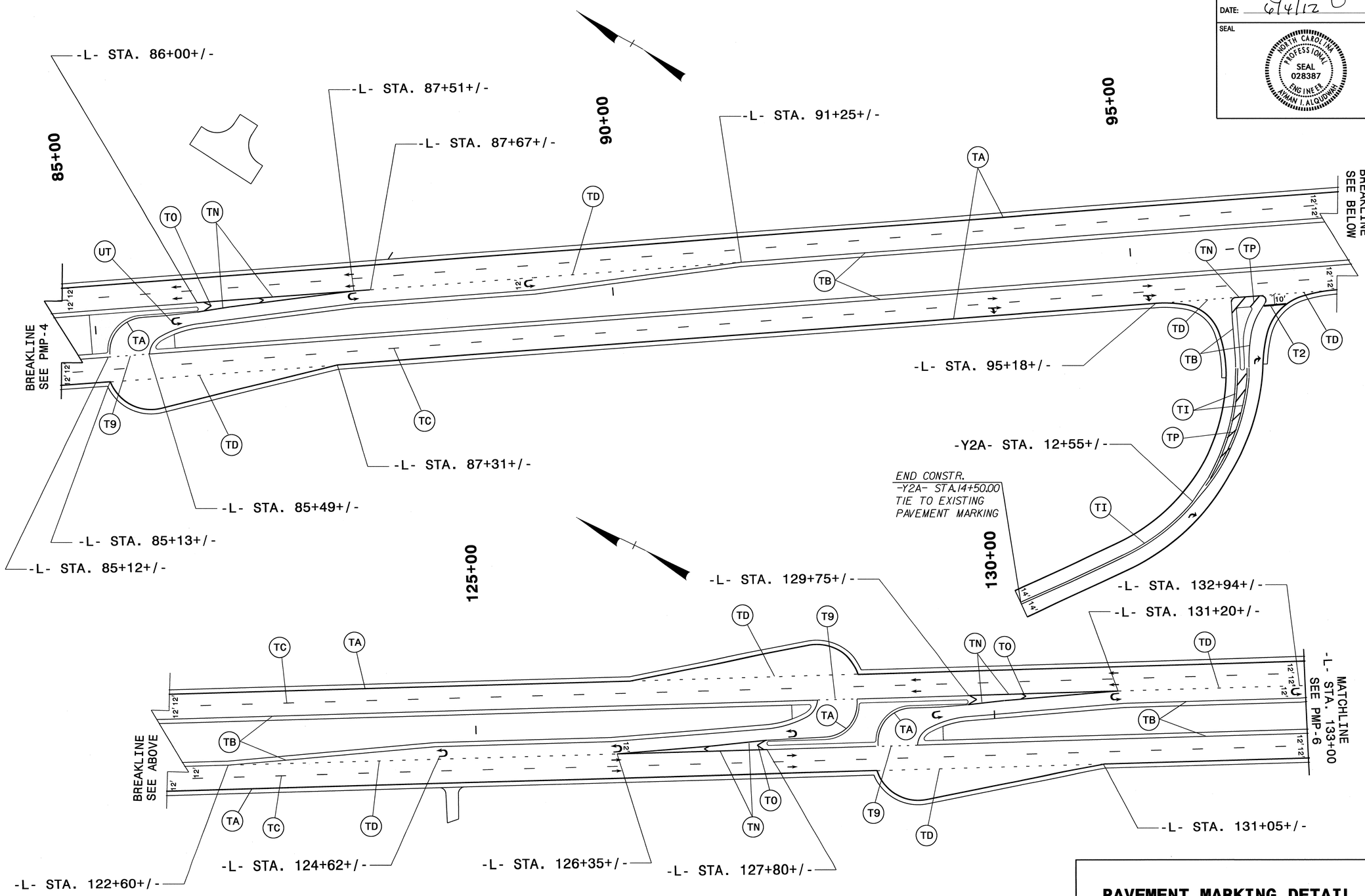
TIP NO.	SHEET NO.
R-2303A	PMP-5

APPROVED: Ayman Alquadah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUADAH



PAVEMENT MARKING DETAIL

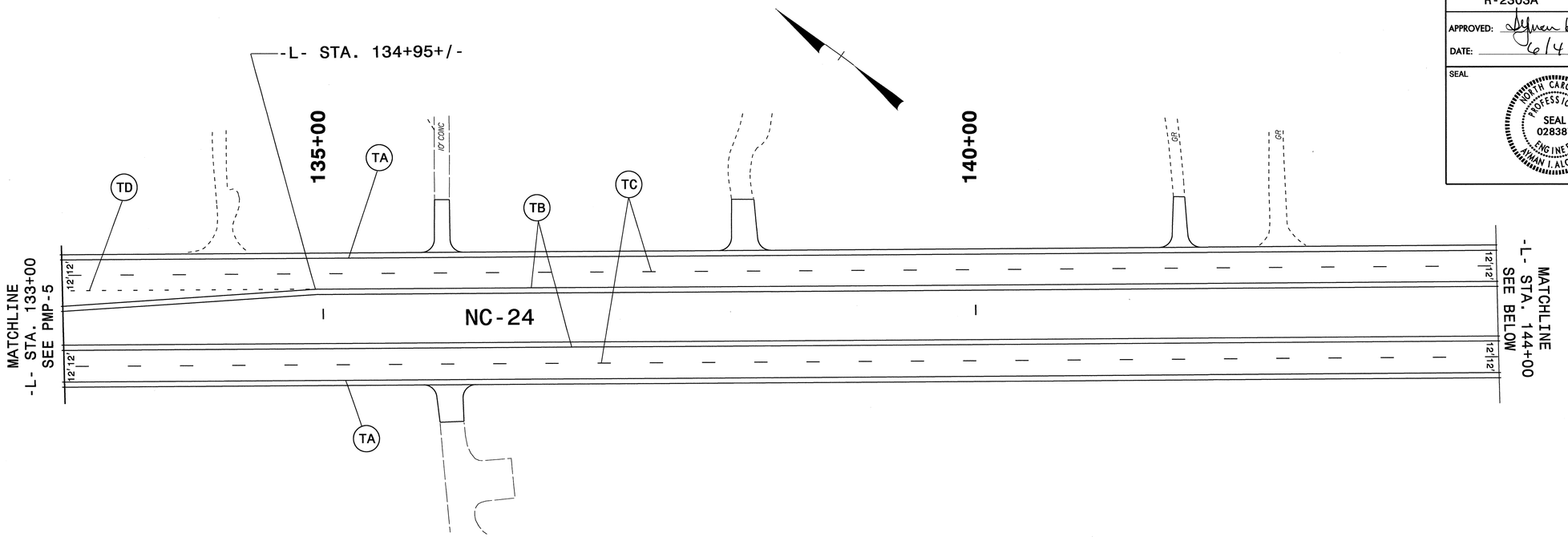
TIP NO.	SHEET NO.
R-2303A	PMP-6

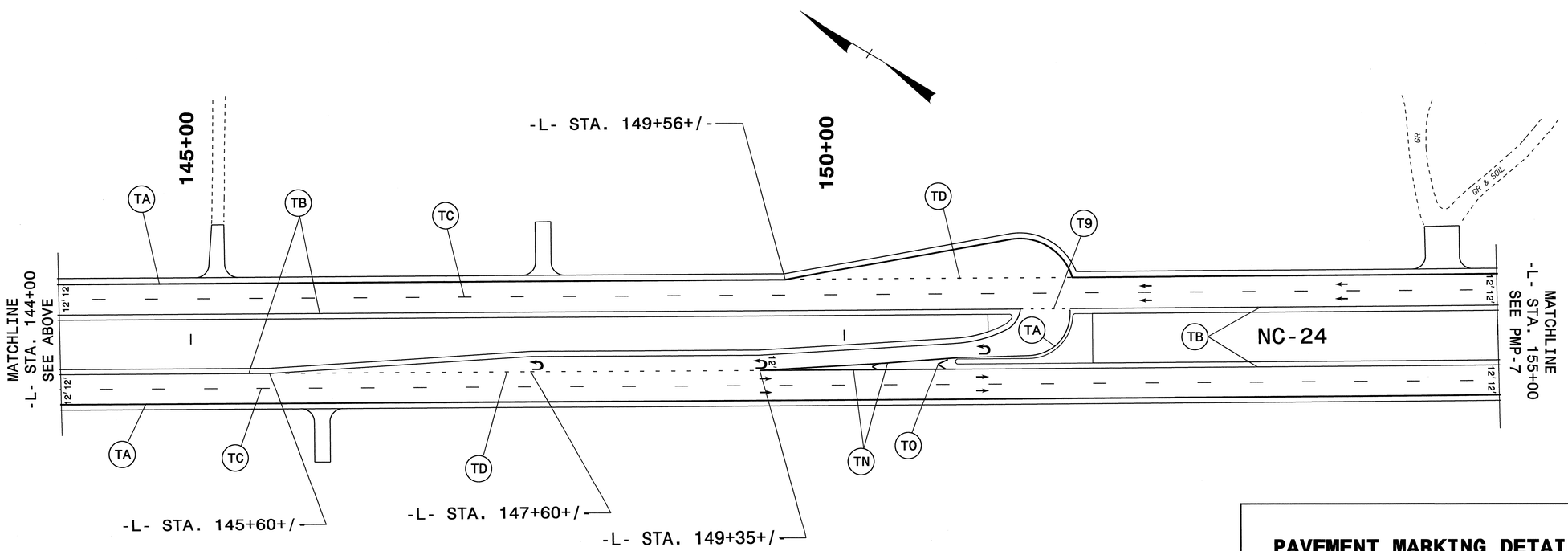
APPROVED: Ayman I. Alqudwah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH





PAVEMENT MARKING DETAIL

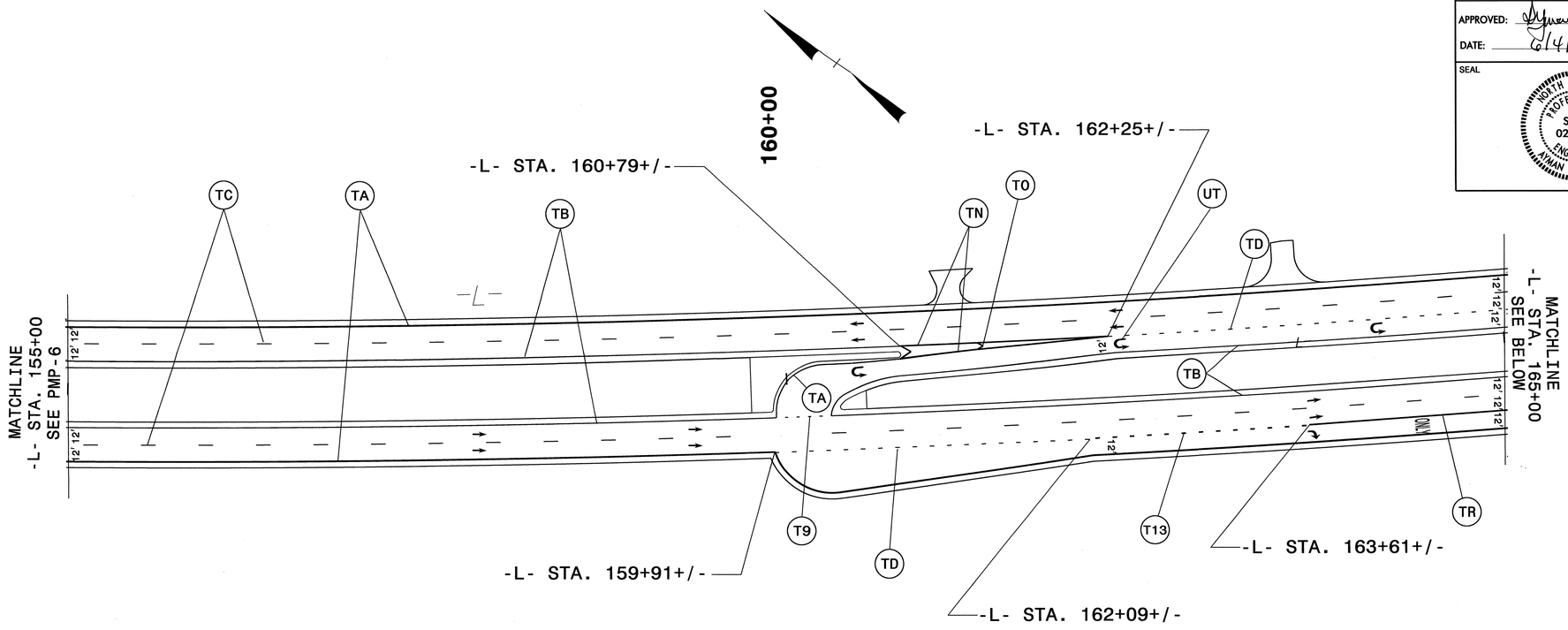
TIP NO.	SHEET NO.
R-2303A	PMP-7

APPROVED: Ayman Alqudwah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PAVEMENT MARKING DETAIL

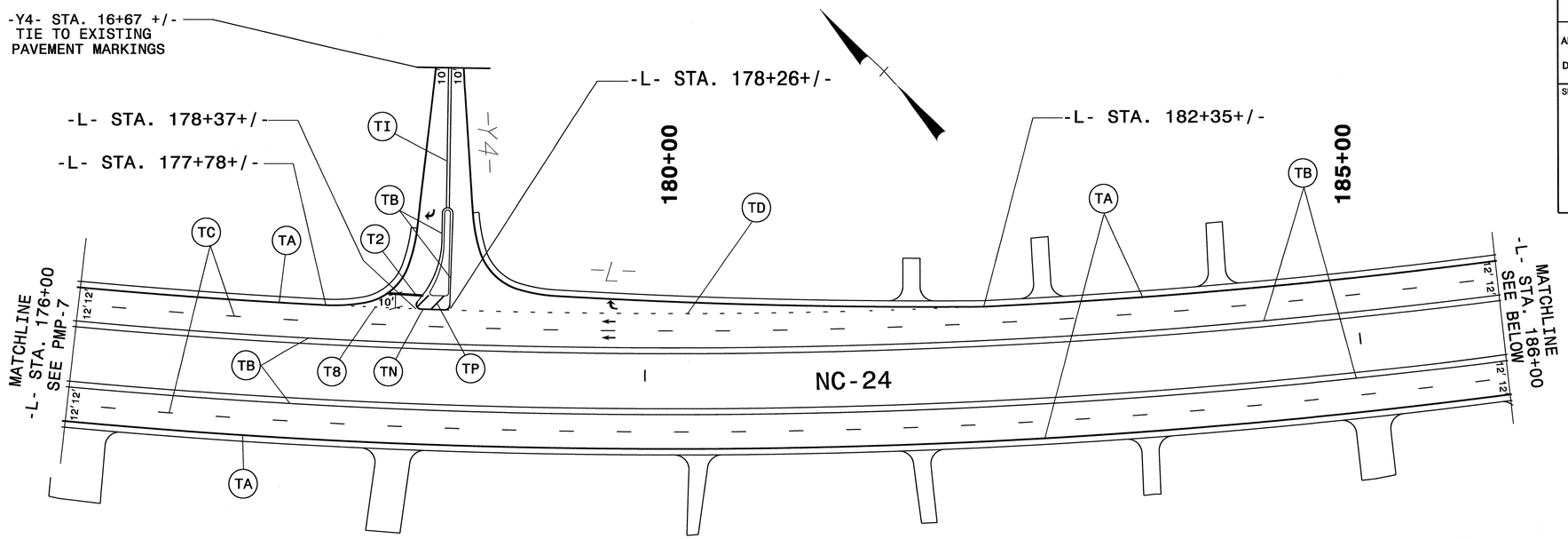
TIP NO.	SHEET NO.
R-2303A	PMP-8

APPROVED: Ayman Alqudwah

DATE: 6/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-2303A	PMP-9

APPROVED: Ayman Alquidwah

DATE: 6/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUIDWAH

-L- STA. 197+89+/-

-L- STA. 197+70+/-

-L- STA. 199+43+/-

-L- STA. 201+44+/-

-Y6- STA. 11+33 +/- TIE TO EXISTING PAVEMENT MARKINGS

-L- STA. 205+36+/-

-L- STA. 207+47+/-

200+00

205+00

MATCHLINE -L- STA. 197+00 SEE PMP-8

MATCHLINE -L- STA. 208+00 SEE BELOW

NC-24

-L- STA. 201+01+/-

-L- STA. 203+20+/-

-Y6A- STA. 18+00+/-

-Y6A- EXIST. NC 24

-Y6A- STA. 16+59 +/- TIE TO EXISTING PAVEMENT MARKINGS

-Y6B- STA. 11+17+/-

-Y6B- STA. 12+20+/-

-Y6B- STA. 12+52+/-

-Y6B- STA. 13+59+/-

-Y6B- STA. 14+19+/-

-Y6B- STA. 14+74 +/- TIE TO EXISTING PAVEMENT MARKINGS

-L- STA. 212+52+/-

-L- STA. 210+63+/-

-L- STA. 214+71+/-

-L- STA. 217+21+/-

210+00

215+00

-L- STA. 214+32+/-

-L- STA. 214+67+/-

-L- STA. 215+75+/-

MATCHLINE -L- STA. 208+00 SEE ABOVE

MATCHLINE -L- STA. 219+00 SEE PMP-10

-L- STA. 218+72+/-

-L- STA. 208+60+/-

-L- STA. 211+33+/-

-L- STA. 212+15+/-

-L- STA. 213+82+/-

-L- STA. 214+89+/-

-L- STA. 217+06+/-

-L- STA. 215+27+/-

PAVEMENT MARKING DETAIL

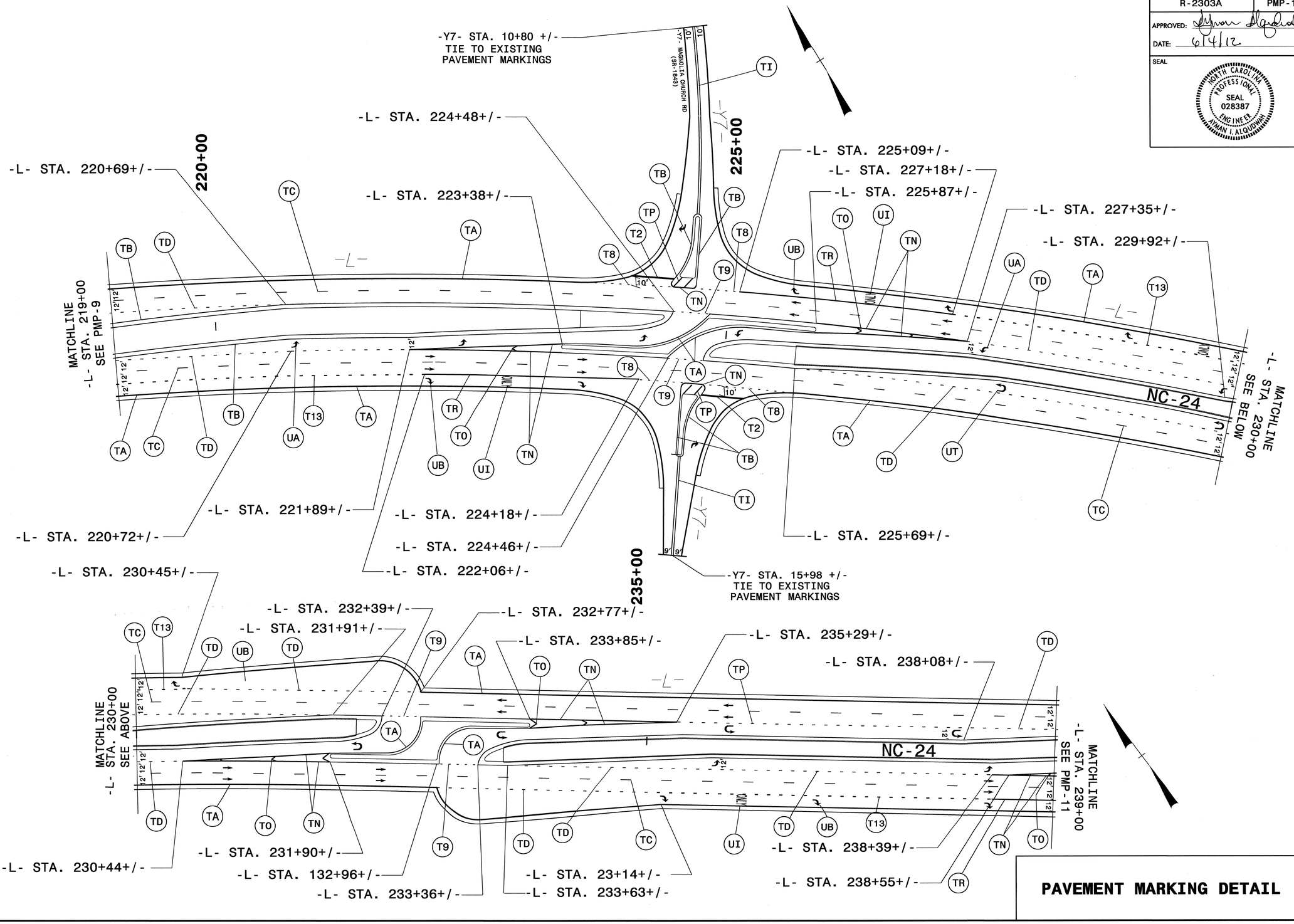
TIP NO.	SHEET NO.
R-2303A	PMP-10

APPROVED: Ayman Alqudah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWH



PAVEMENT MARKING DETAIL

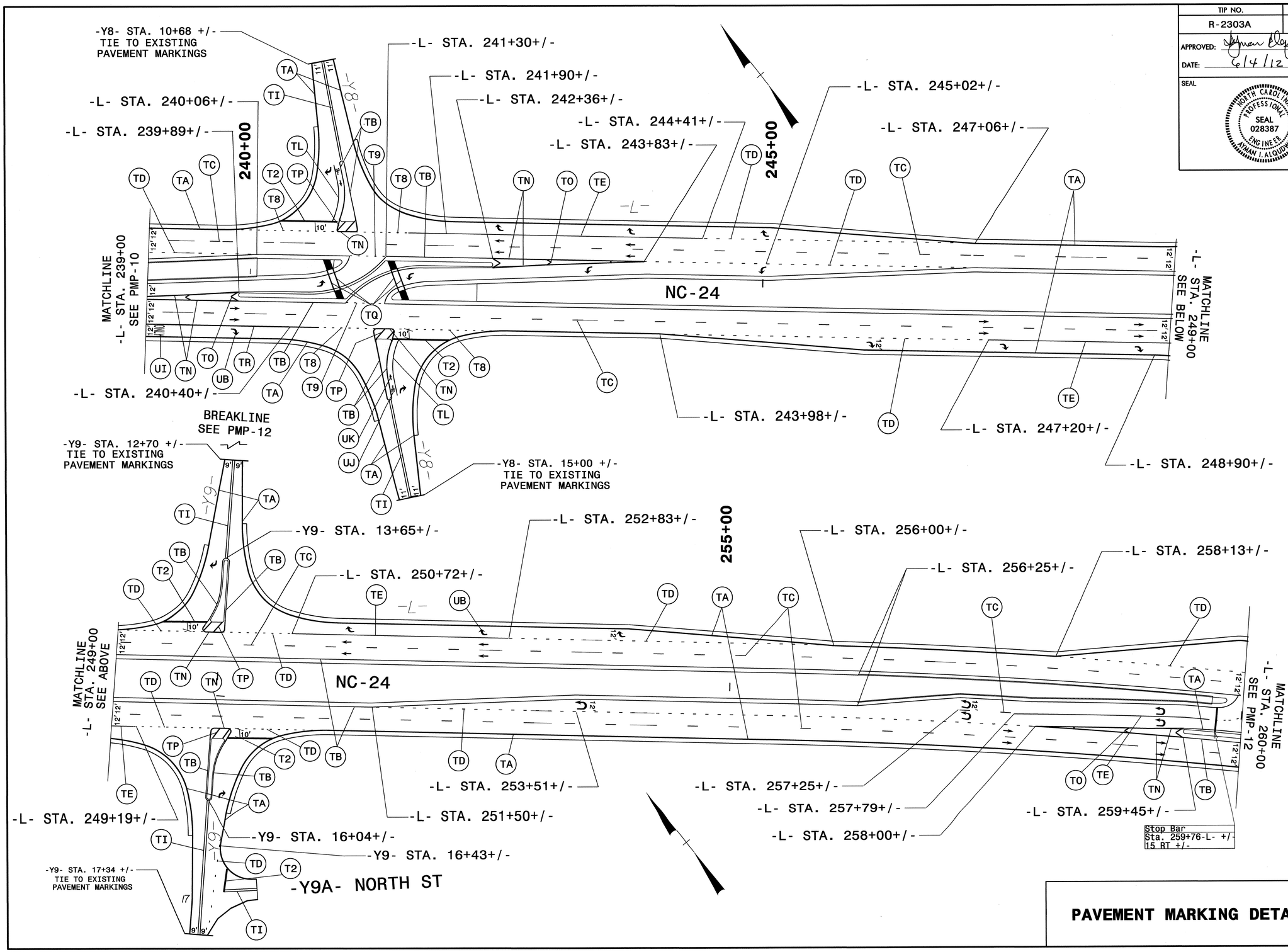
TIP NO.	SHEET NO.
R-2303A	PMP-11

APPROVED: Hyman Alqudah

DATE: 6/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER HYMAN I. ALQUDAH



PAVEMENT MARKING DETAIL

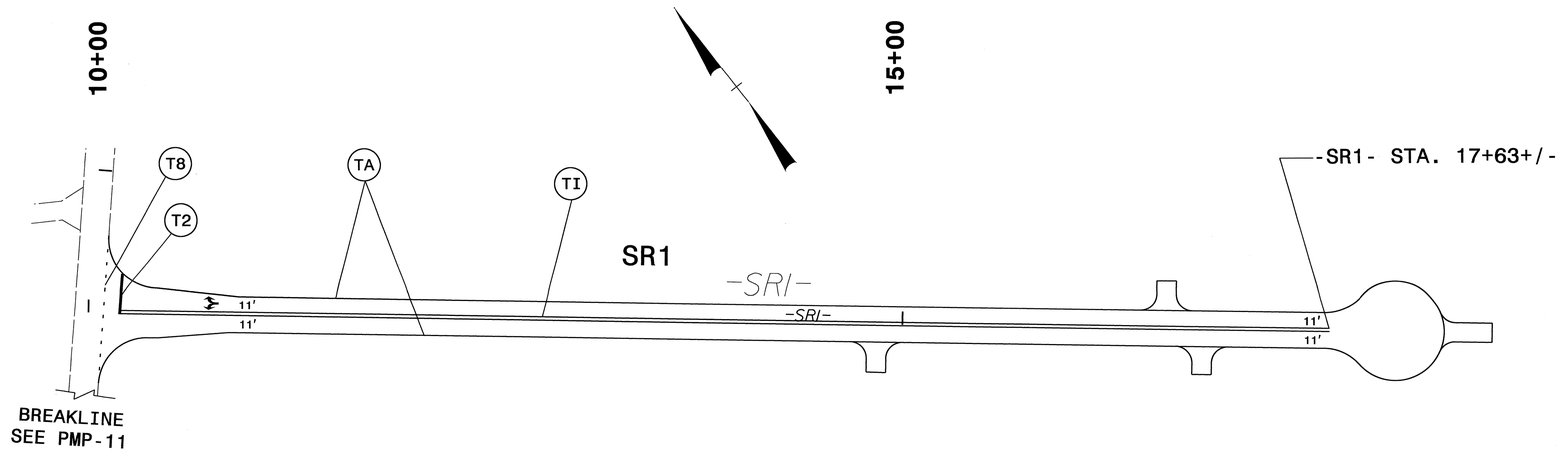
TIP NO.	SHEET NO.
R-2303A	PMP-12

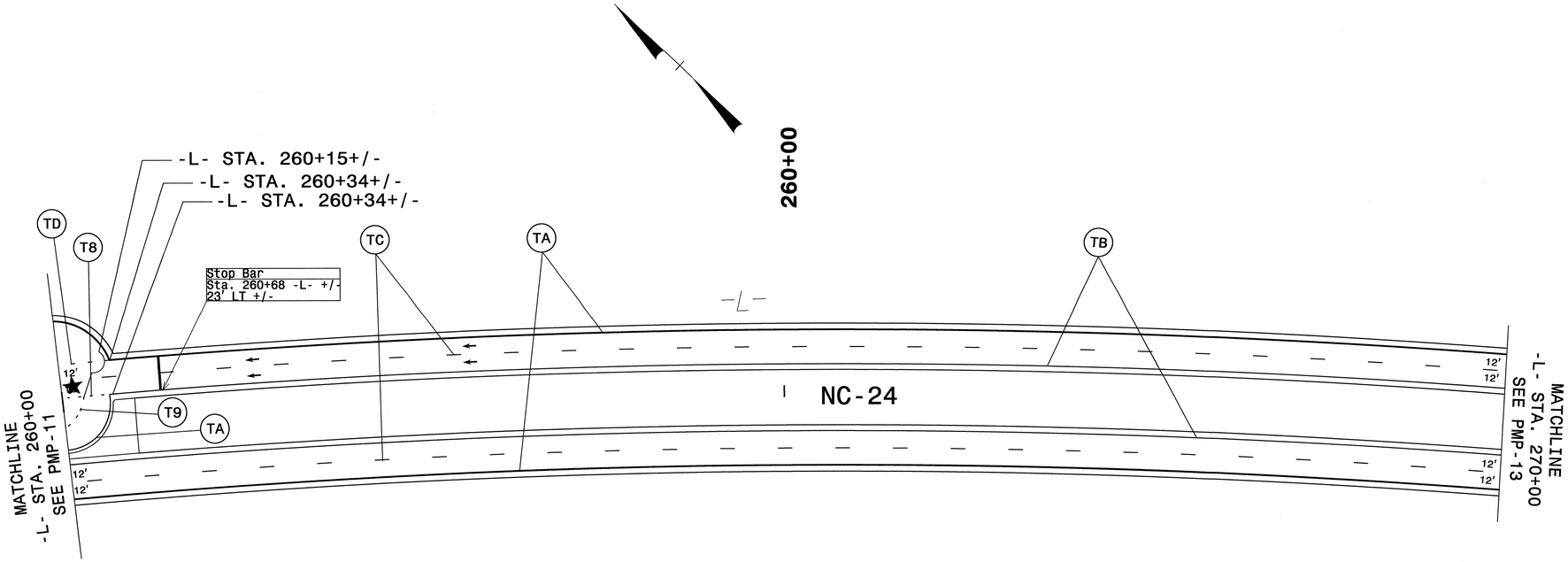
APPROVED: Ayman Alqudwah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH





PAVEMENT MARKING DETAIL

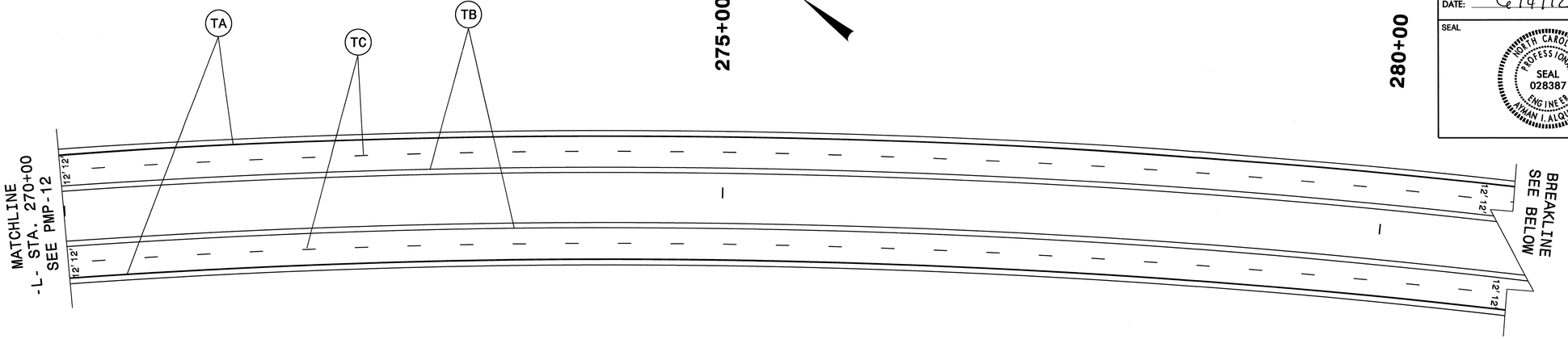
TIP NO.	SHEET NO.
R-2303A	PMP-13

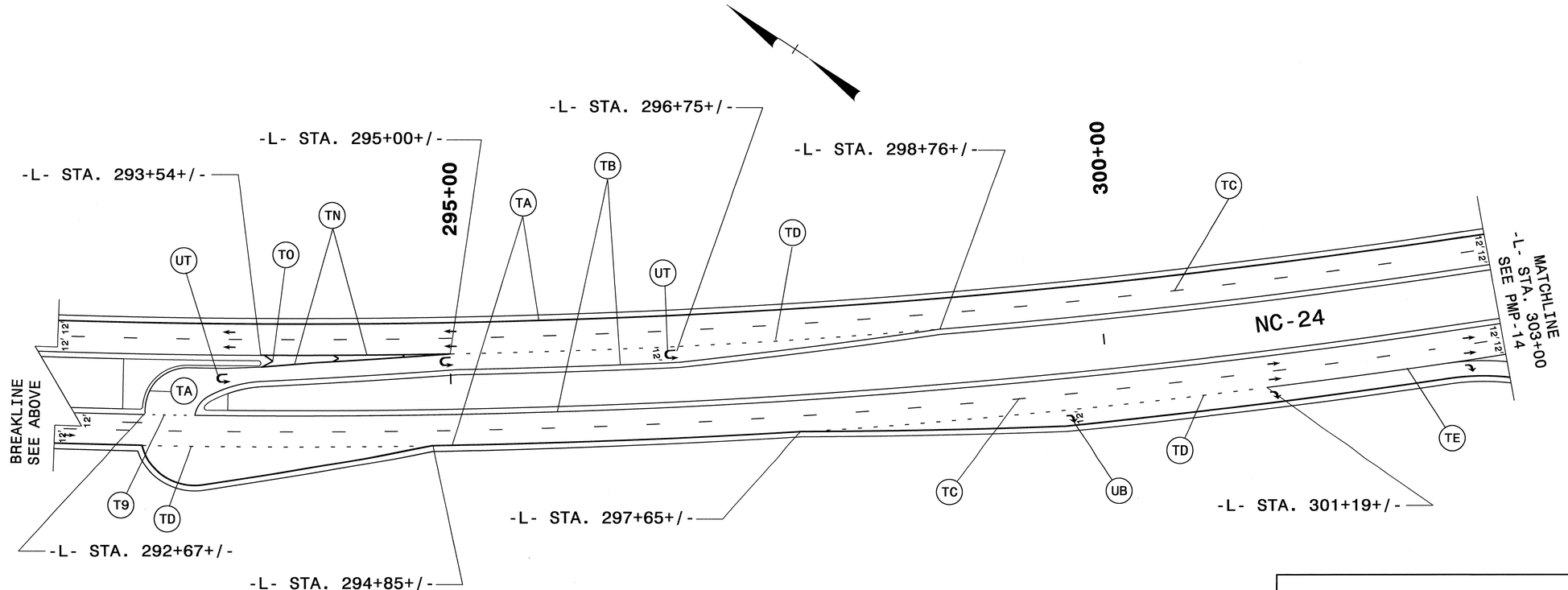
APPROVED: Lyman Alquinlan

DATE: 12/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUINLAN





PAVEMENT MARKING DETAIL

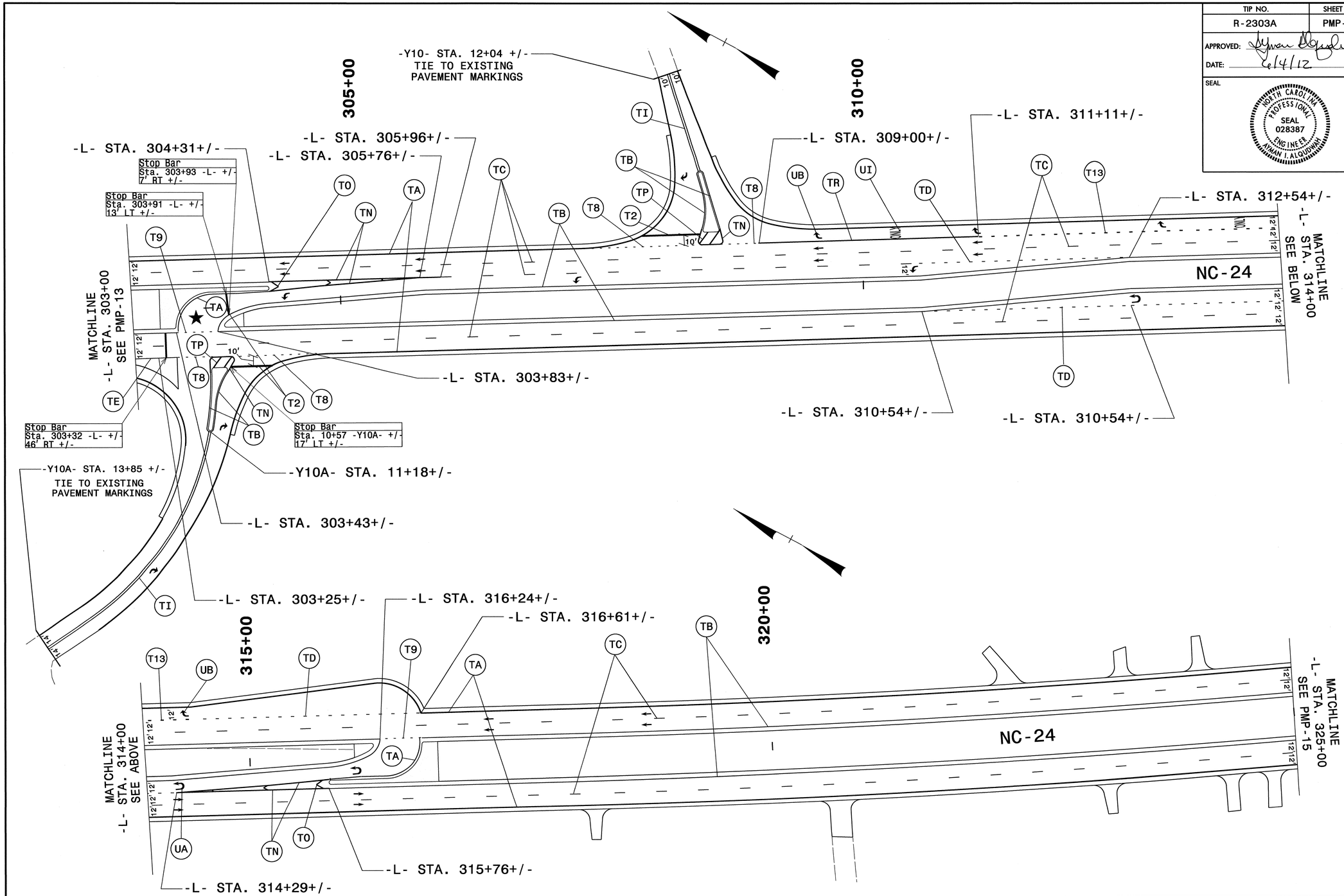
TIP NO.	SHEET NO.
R-2303A	PMP-14

APPROVED: Ayman Alqudwah

DATE: 6/14/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PAVEMENT MARKING DETAIL

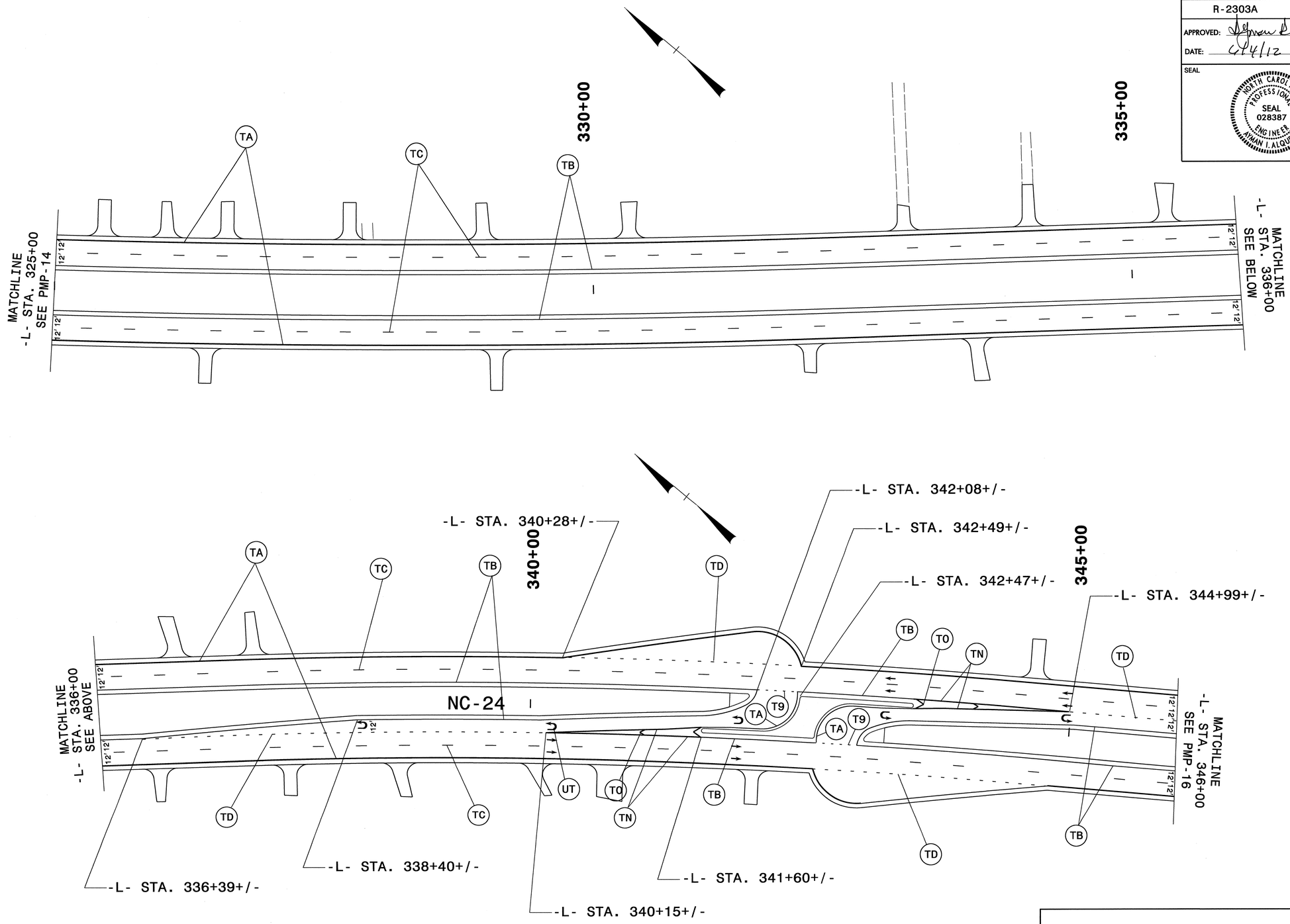
TIP NO.	SHEET NO.
R-2303A	PMP-15

APPROVED: Ayman I. Alqudwah

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PAVEMENT MARKING DETAIL

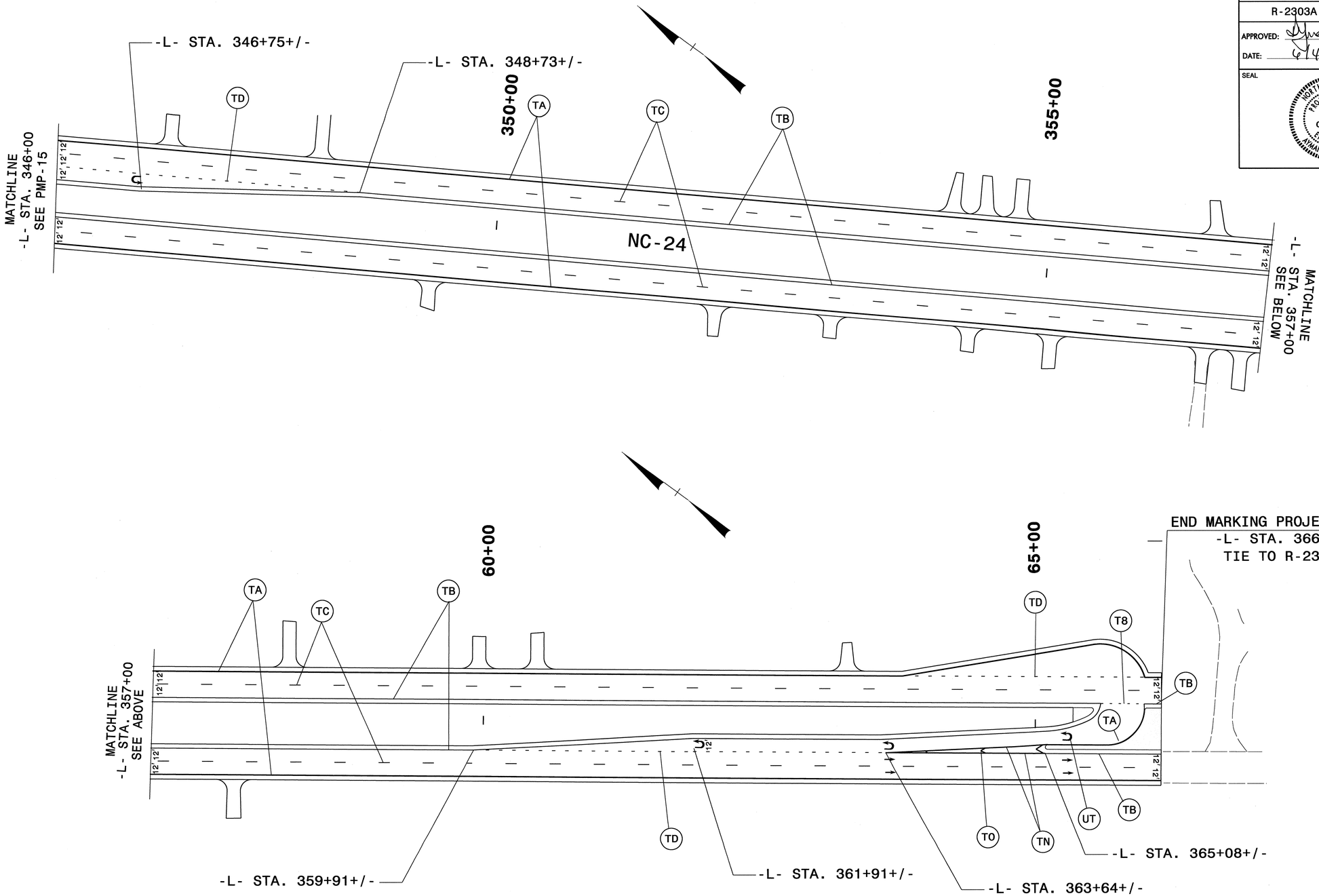
TIP NO.	SHEET NO.
R-2303A	PMP-16

APPROVED: _____

DATE: 6/4/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 028387 ENGINEER AYMAN I. ALQUDWAH



PAVEMENT MARKING DETAIL