

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
HAYWOOD COUNTY**

LOCATION: NC 209 FROM US 23 BUS. TO NORTH OF SR 1523 (OLD CLYDE RD.)

T.I.P.: R-4047

CONTRACT: C203393

PLOT DRIVER: NCDOT_pdf_mono_eng_50.plt
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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
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
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

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:

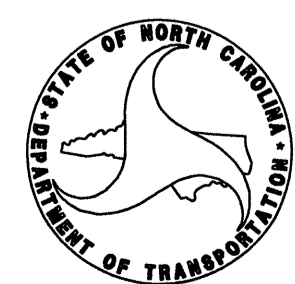
ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	SNOWPLOWABLE
CONCRETE BRIDGE DECKS	POLYUREA WITH HIGHLY REFLECTIVE ELEMENTS	PERMANENT RAISED
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING 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) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING POLYUREA PAVEMENT MARKING MATERIAL.
- G) 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.
- H) INSTALL TUBULAR MARKERS AS DIRECTED BY THE ENGINEER.

INDEX

SHEET NO.	DESCRIPTION
PMP-1	LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, INDEX OF SHEETS, AND GENERAL NOTES
PMP-1A	PAVEMENT MARKING SCHEDULE AND PAVEMENT MARKING DETAILS
PMP-1B AND PMP-1C	REVISED PAVEMENT MARKING STANDARD DRAWING
PMP-2 AND PMP-5	PAVEMENT MARKING PLANS

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

KELVIN JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
WALTER JOHNSON SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN



APPROVED: *Michelle Ward*



DATE: 12/18/13

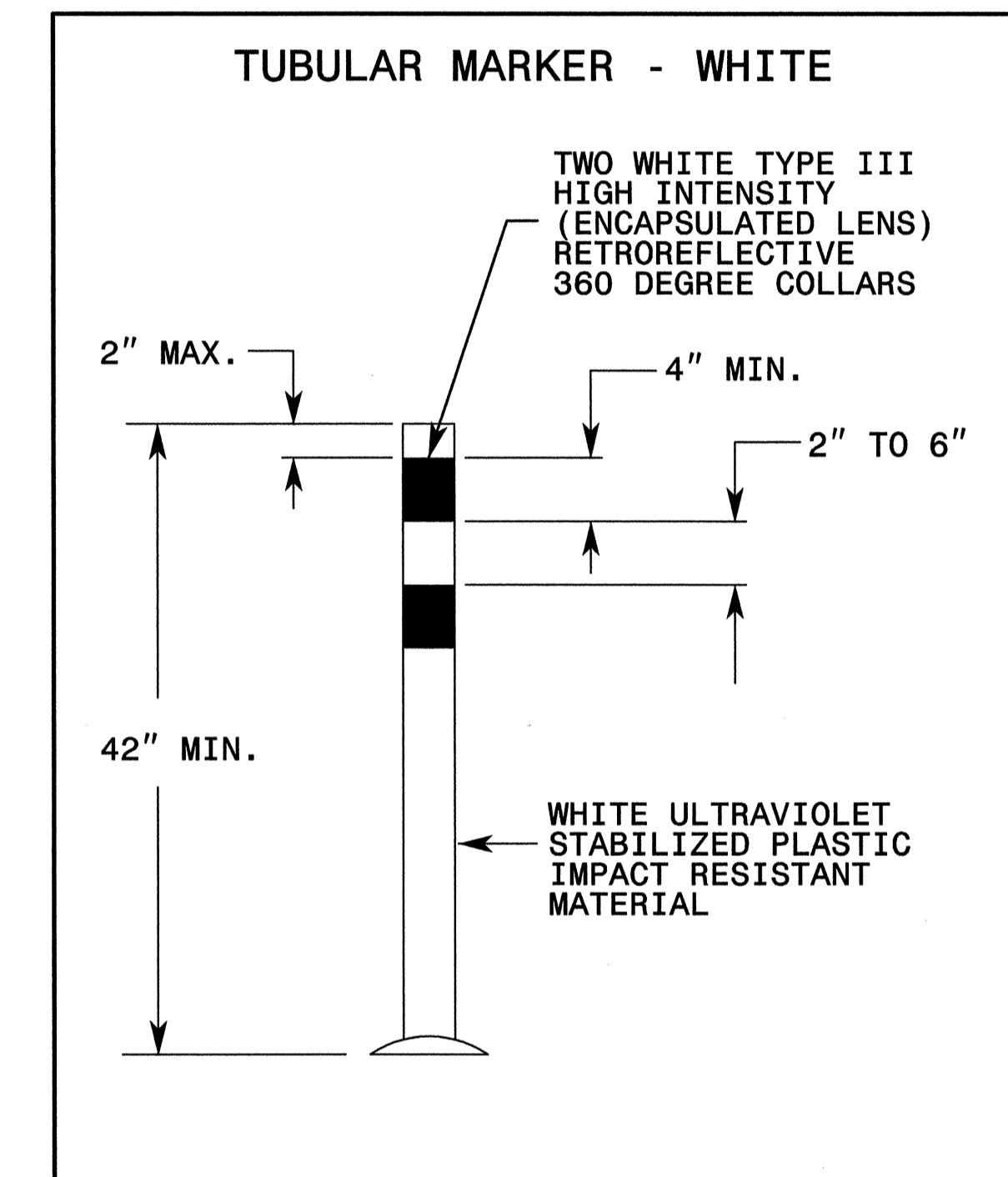
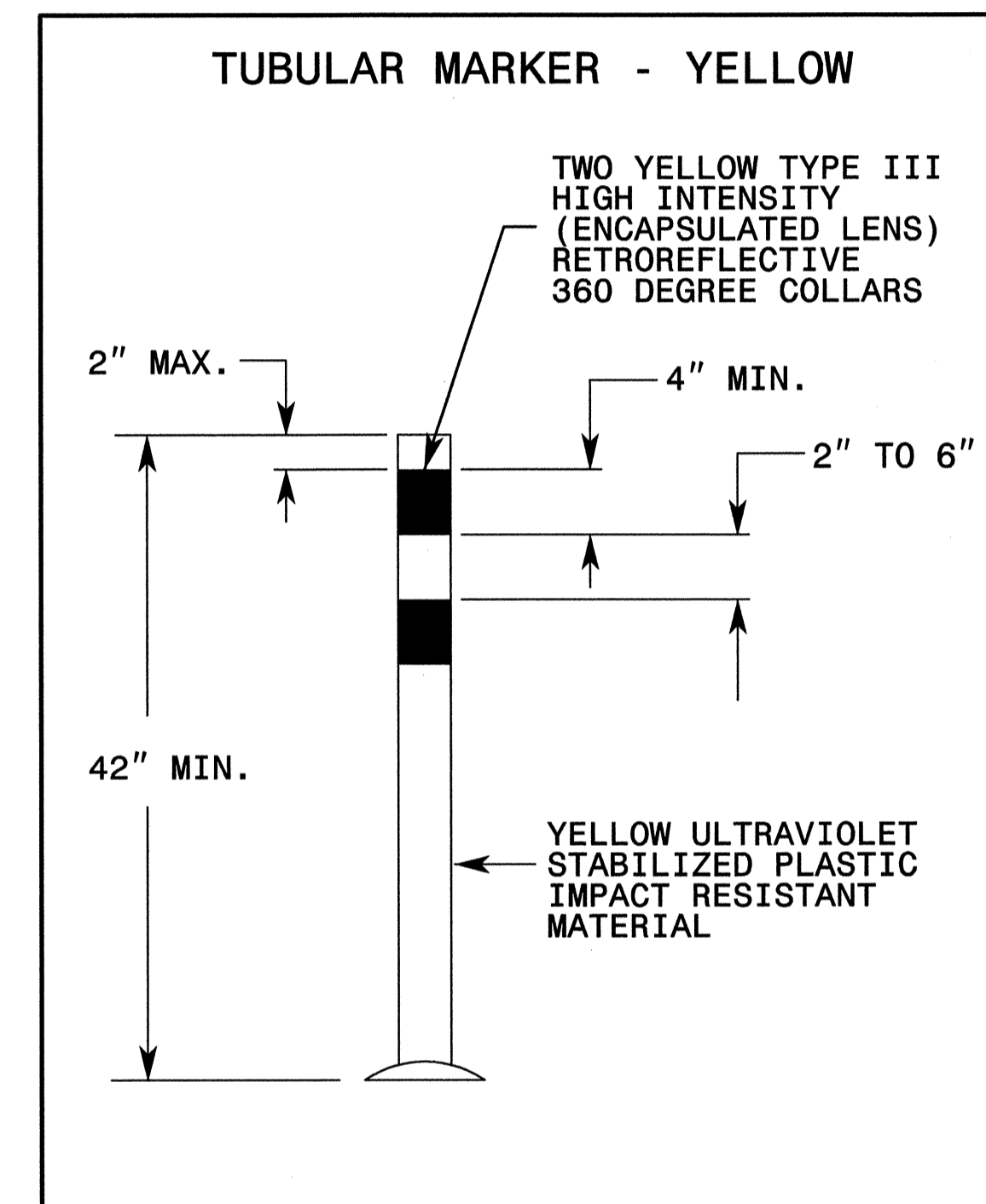
PLANS PREPARED BY:

HDR HDR Engineering, Inc. of the Carolinas
 3733 National Drive, Suite 207 Raleigh, N.C. 27612
 N.C.B.E.L.S. License Number: F-0116

MICHELLE WARD, P.E. PAVEMENT MARKING PROJECT ENGINEER
CHRIS HARNDEN PAVEMENT MARKING PROJECT DESIGNER

PAVEMENT MARKING SCHEDULE


- (T2) THERMOPLASTIC 24" WHITE STOPBAR (120 MIL)
- (T6) THERMOPLASTIC 6" WHITE EDGELINE (90 MIL)
- (T7) THERMOPLASTIC 6" YELLOW EDGELINE (90 MIL)
- (T8) THERMOPLASTIC 4" 2'-6"/SP. WHITE MINI-SKIP (120 MIL)
- (T9) THERMOPLASTIC 4" 2'-6"/SP. YELLOW MINI-SKIP (120 MIL)
- (T13) THERMOPLASTIC 8" 3'-9"/SP. WHITE MINI-SKIP (120 MIL)
- (TA) THERMOPLASTIC 4" WHITE EDGELINE (90 MIL)
- (TB) THERMOPLASTIC 4" YELLOW EDGELINE (90 MIL)
- (TC) THERMOPLASTIC 4" 10'-30"/SP. WHITE SKIP (120 MIL)
- (TD) THERMOPLASTIC 4" 3'-9"/SP. WHITE MINI-SKIP (120 MIL)
- (TE) THERMOPLASTIC 4" WHITE SOLID LANE LINE (120 MIL)
- (TI) THERMOPLASTIC 4" YELLOW DOUBLE CENTER (120 MIL)
- (TJ) THERMOPLASTIC 6" 10'-30"/SP. WHITE SKIP (120 MIL)
- (TK) THERMOPLASTIC 6" 3'-9"/SP. WHITE MINI-SKIP (120 MIL)
- (TL) THERMOPLASTIC 6" WHITE SOLID LANE LINE (120 MIL)
- (TN) THERMOPLASTIC 8" WHITE GORELINE (90 MIL)
- (TO) THERMOPLASTIC 8" WHITE DIAGONAL (90 MIL)
- (TP) THERMOPLASTIC 8" YELLOW DIAGONAL (90 MIL)
- (TR) THERMOPLASTIC 8" WHITE SOLID LANE LINE (120 MIL)
- (TS) THERMOPLASTIC 12" WHITE GORELINE (90 MIL)
- (UA) THERMOPLASTIC LEFT TURN ARROW (90 MIL)
- (UB) THERMOPLASTIC RIGHT TURN ARROW (90 MIL)
- (UC) THERMOPLASTIC STRAIGHT ARROW (90 MIL)
- (UD) THERMOPLASTIC COMBO LEFT-STRAIGHT ARROW (90 MIL)
- (UE) THERMOPLASTIC COMBO RIGHT-STRAIGHT ARROW (90 MIL)
- (UF) THERMOPLASTIC COMBO LEFT-RIGHT ARROW (90 MIL)
- (UG) THERMOPLASTIC COMBO LEFT-RIGHT-STRAIGHT ARROW (90 MIL)
- (UI) THERMOPLASTIC ALPHANUMERIC CHARACTER (120 MIL)
- (UN) THERMOPLASTIC 24" YIELD LINE TRIANGLE (90 MIL)
- (UP) THERMOPLASTIC MERGE ARROW (90 MIL)
- (VK) POLYUREA 6" 3'-9"/SP. WHITE MINI-SKIP



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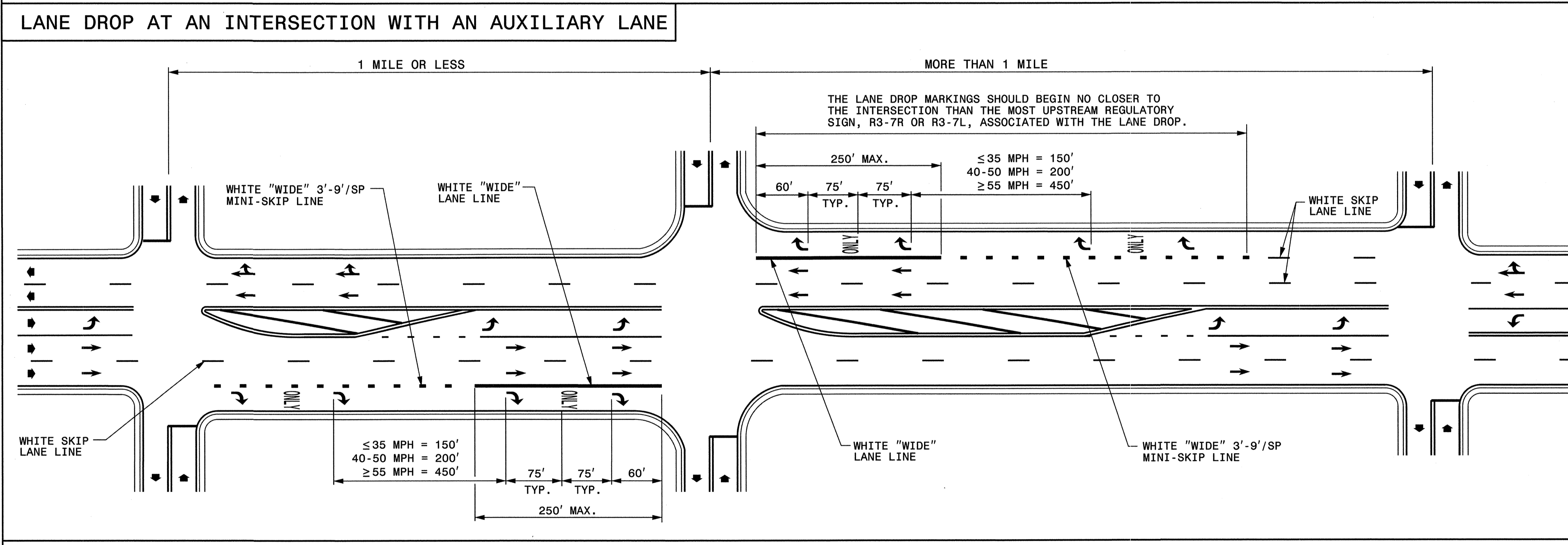
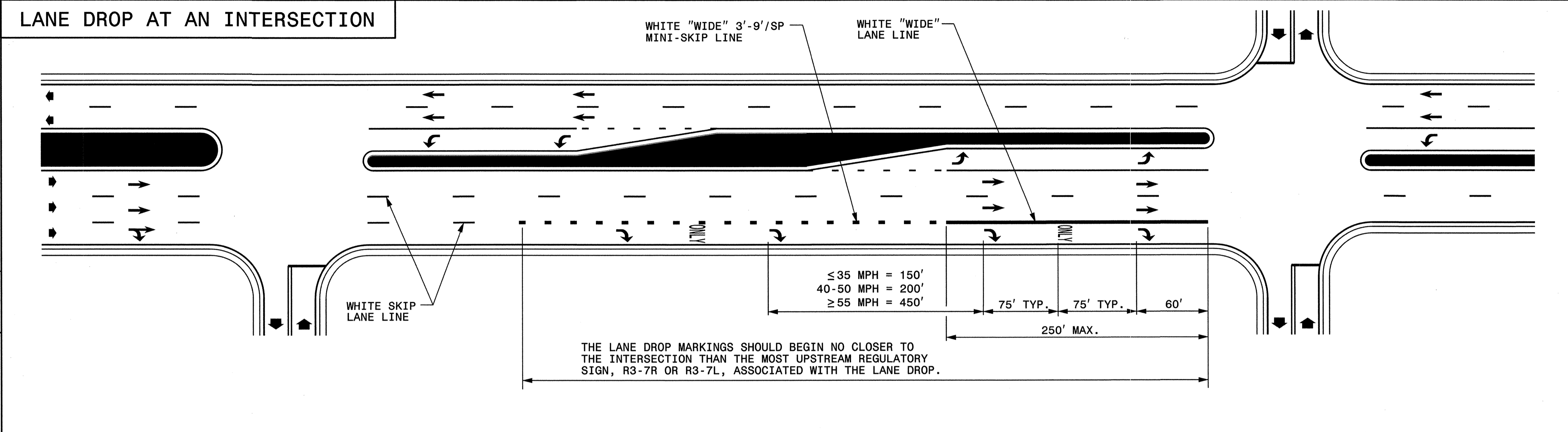

 MICHELLE WARD
 12/18/13

PAVEMENT MARKING
SCHEDULE
&
DETAILS

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

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 LANE DROPS

REVISED 9/14/11
 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	ONLY PAVEMENT MARKING SYMBOLS & CHARACTERS
◆ DIRECTION OF TRAFFIC FLOW	

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

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 LANE DROPS

REVISED 9/14/11
 SHEET 1 OF 3
1205D06

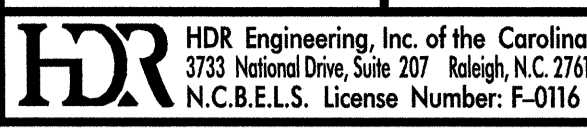
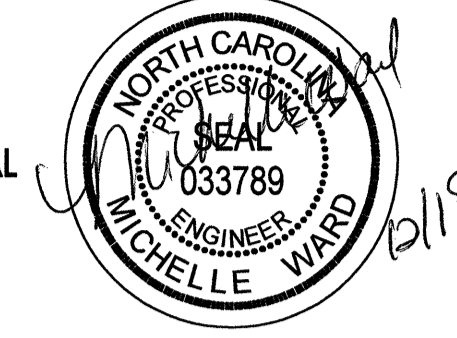
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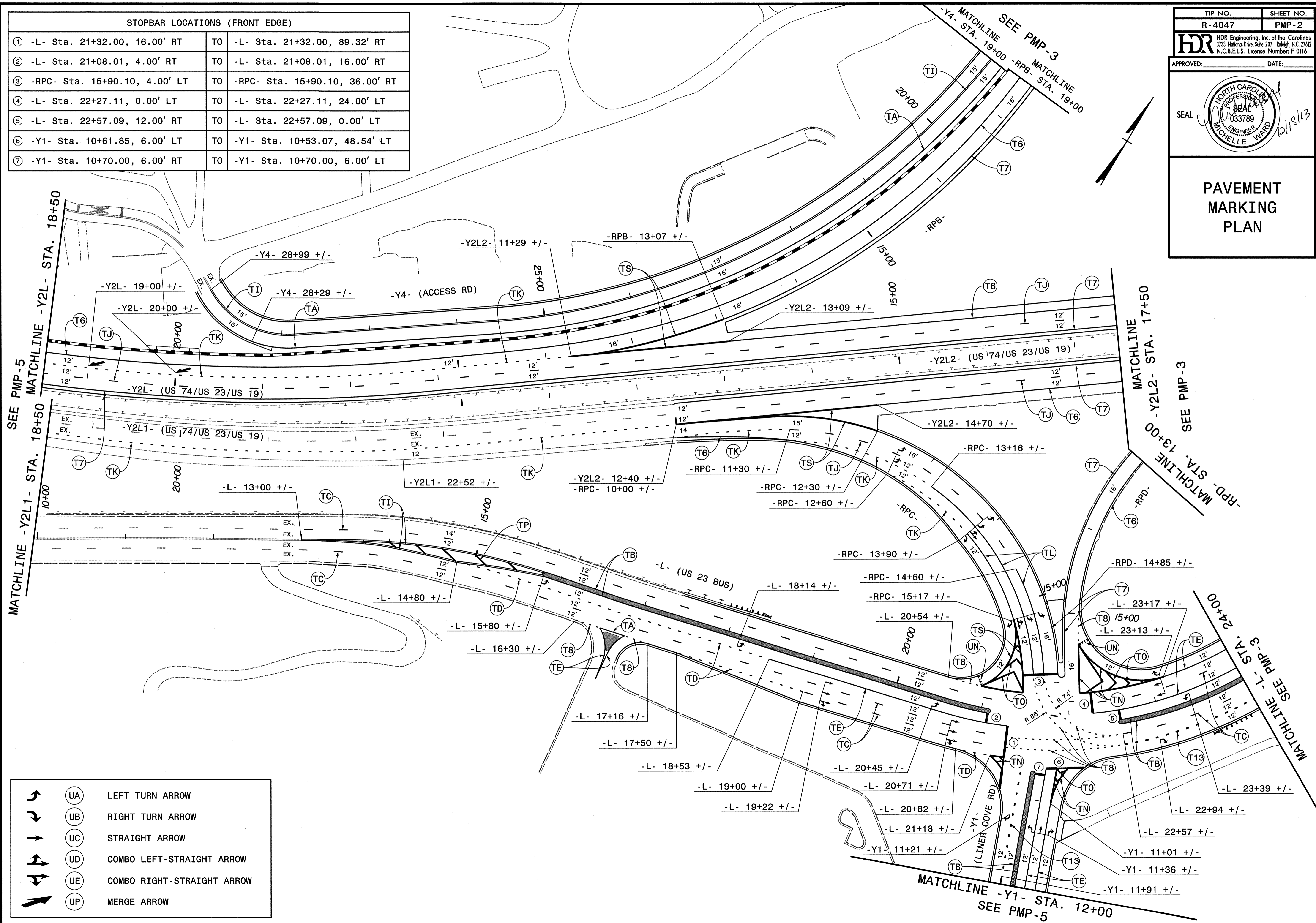
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SEAL

REVISED PAVEMENT MARKING ROADWAY STANDARD DRAWINGS

STOPBAR LOCATIONS (FRONT EDGE)			
①	-L- Sta. 21+32.00, 16.00' RT	TO	-L- Sta. 21+32.00, 89.32' RT
②	-L- Sta. 21+08.01, 4.00' RT	TO	-L- Sta. 21+08.01, 16.00' RT
③	-RPC- Sta. 15+90.10, 4.00' LT	TO	-RPC- Sta. 15+90.10, 36.00' RT
④	-L- Sta. 22+27.11, 0.00' LT	TO	-L- Sta. 22+27.11, 24.00' LT
⑤	-L- Sta. 22+57.09, 12.00' RT	TO	-L- Sta. 22+57.09, 0.00' LT
⑥	-Y1- Sta. 10+61.85, 6.00' LT	TO	-Y1- Sta. 10+53.07, 48.54' LT
⑦	-Y1- Sta. 10+70.00, 6.00' RT	TO	-Y1- Sta. 10+70.00, 6.00' LT

TIP NO. R-4047	SHEET NO. PMP-2
 HDR Engineering, Inc. of the Carolinas 3733 National Drive, Suite 207 Raleigh, N.C. 27612 N.C.E.L.S. License Number: F-0116	
APPROVED: _____	DATE: _____
 MICHELLE WARD 2/18/13	
PAVEMENT MARKING PLAN	

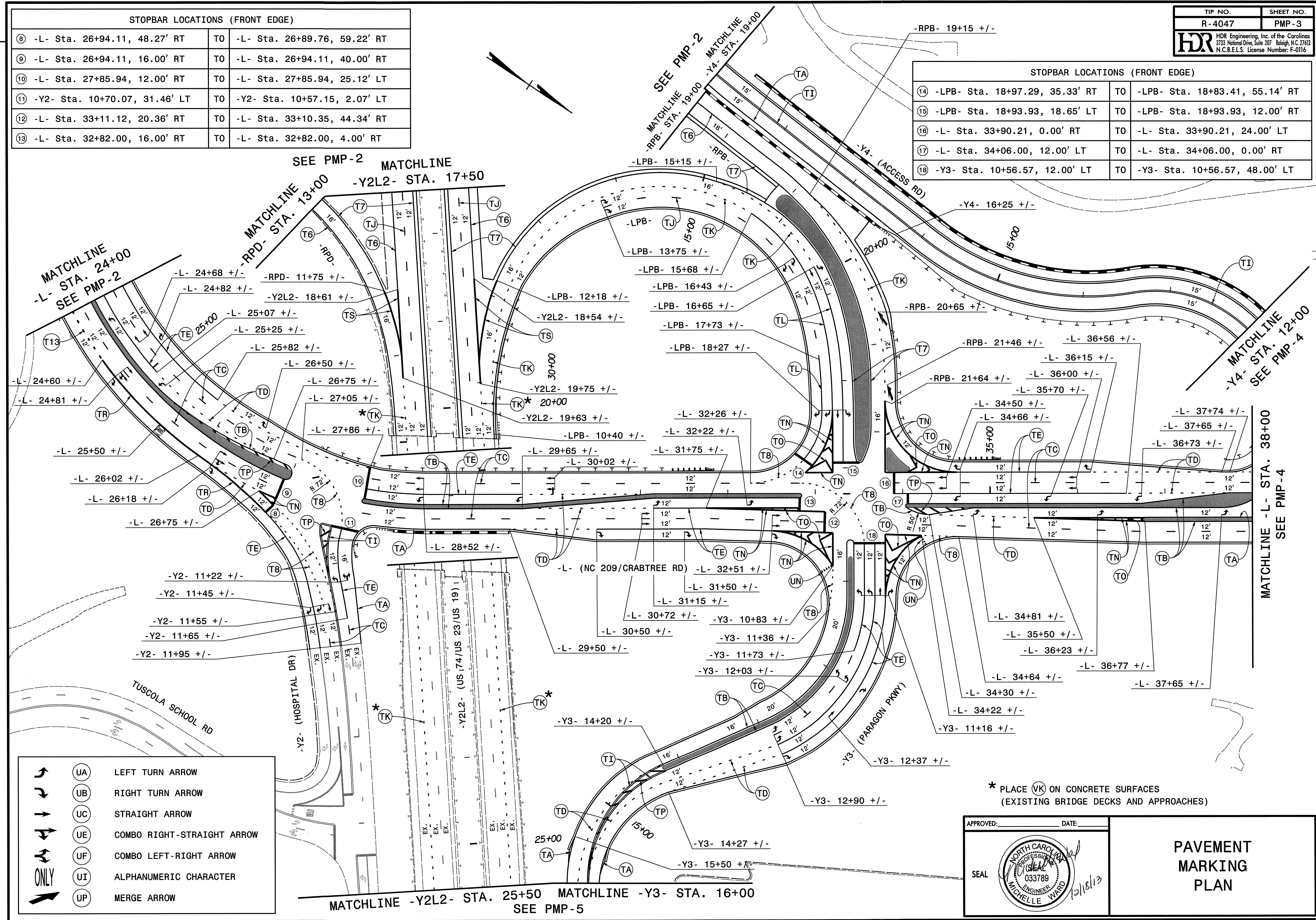


	UA	LEFT TURN ARROW
	UB	RIGHT TURN ARROW
	UC	STRAIGHT ARROW
	UD	COMBO LEFT-STRAIGHT ARROW
	UE	COMBO RIGHT-STRAIGHT ARROW
	UP	MERGE ARROW

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STOPBAR LOCATIONS (FRONT EDGE)			
8	-L- Sta. 26+94.11, 48.27' RT	TO	-L- Sta. 26+89.76, 59.22' RT
9	-L- Sta. 26+94.11, 16.00' RT	TO	-L- Sta. 26+94.11, 40.00' RT
10	-L- Sta. 27+85.94, 12.00' RT	TO	-L- Sta. 27+85.94, 25.12' LT
11	-Y2- Sta. 10+70.07, 31.46' LT	TO	-Y2- Sta. 10+57.15, 2.07' LT
12	-L- Sta. 33+11.12, 20.36' RT	TO	-L- Sta. 33+10.35, 44.34' RT
13	-L- Sta. 32+82.00, 16.00' RT	TO	-L- Sta. 32+82.00, 4.00' RT

STOPBAR LOCATIONS (FRONT EDGE)			
14	-LPB- Sta. 18+97.29, 35.33' RT	TO	-LPB- Sta. 18+83.41, 55.14' RT
15	-LPB- Sta. 18+93.93, 18.65' LT	TO	-LPB- Sta. 18+93.93, 12.00' RT
16	-L- Sta. 33+90.21, 0.00' RT	TO	-L- Sta. 33+90.21, 24.00' LT
17	-L- Sta. 34+06.00, 12.00' LT	TO	-L- Sta. 34+06.00, 0.00' RT
18	-Y3- Sta. 10+56.57, 12.00' LT	TO	-Y3- Sta. 10+56.57, 48.00' LT



- UA LEFT TURN ARROW
- UB RIGHT TURN ARROW
- UC STRAIGHT ARROW
- UE COMBO RIGHT-STRAIGHT ARROW
- UF COMBO LEFT-RIGHT ARROW
- UI ALPHANUMERIC CHARACTER
- UP MERGE ARROW

* PLACE (VK) ON CONCRETE SURFACES
(EXISTING BRIDGE DECKS AND APPROACHES)

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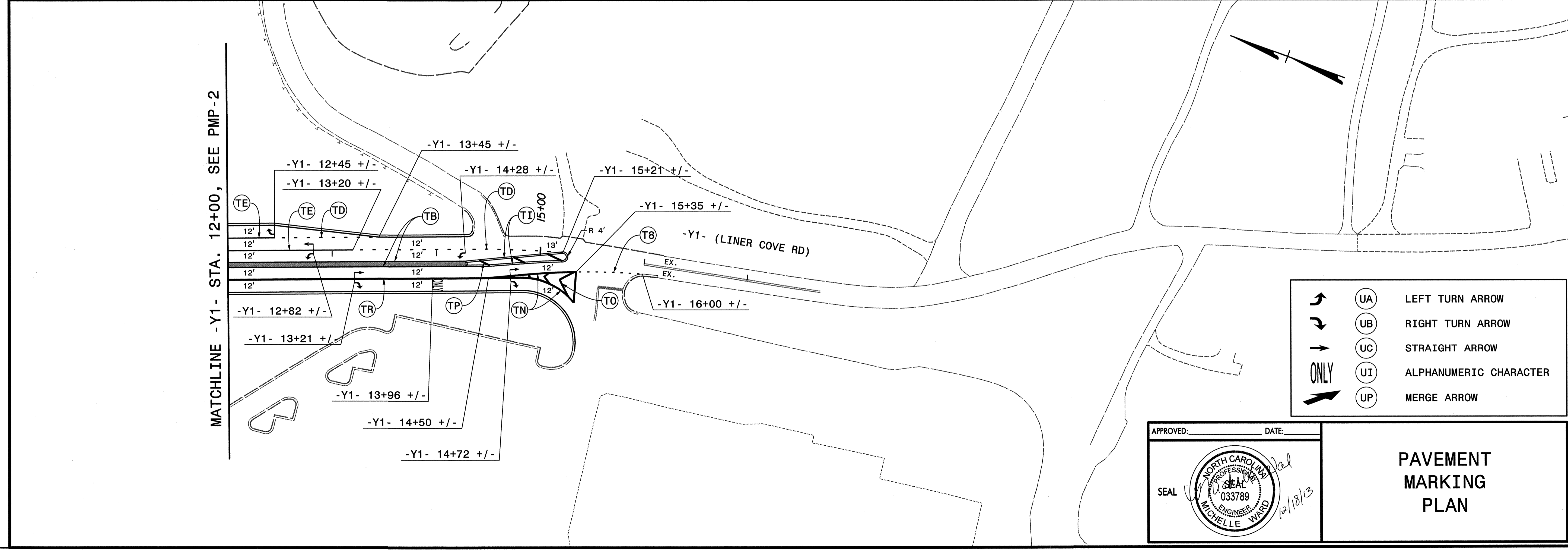
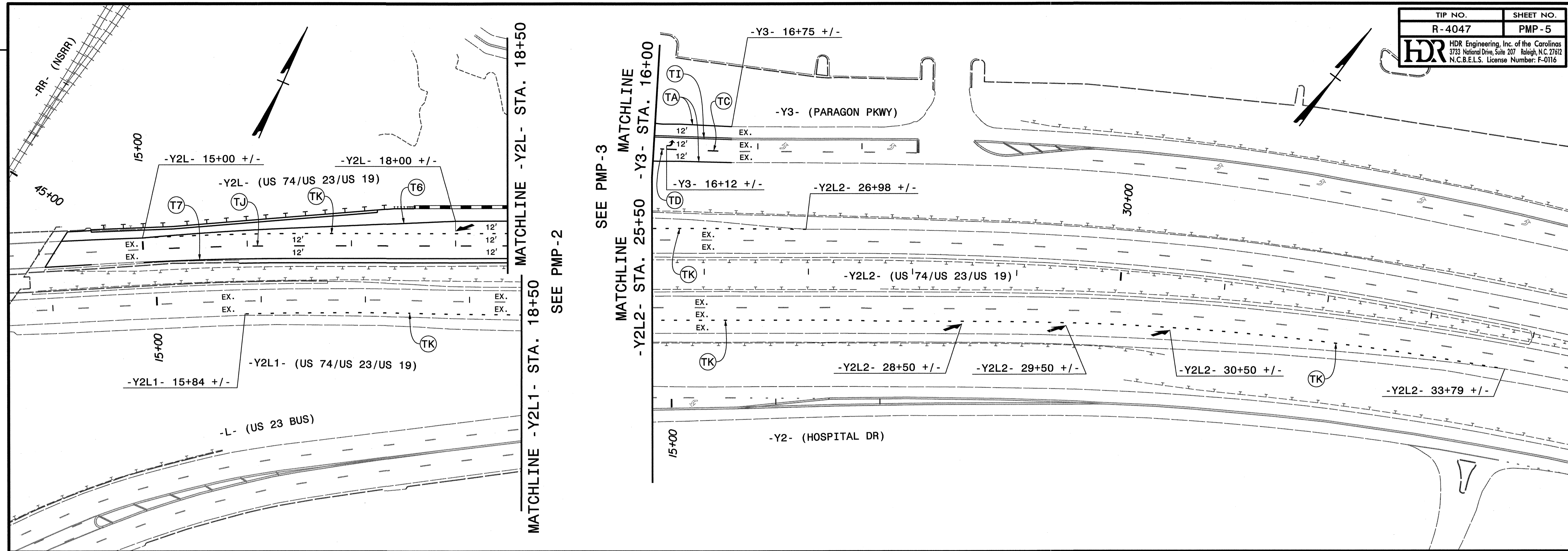
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PAVEMENT MARKING PLAN

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REVISIONS



- | | | |
|--|----|------------------------|
| | UA | LEFT TURN ARROW |
| | UB | RIGHT TURN ARROW |
| | UC | STRAIGHT ARROW |
| | UI | ALPHANUMERIC CHARACTER |
| | UP | MERGE ARROW |

APPROVED: _____ DATE: _____

SEAL

PAVEMENT MARKING PLAN