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CONTRACT: C204747 **T.I.P.: U-5710A**

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

NEW HANOVER COUNTY

**LOCATION: NEW LOCATION NORTHWESTERN QUADRANT CONNECTION BETWEEN
US 74 (EASTWOOD RD.) AND US 17 (MILITARY CUTOFF RD.)**

TIP NO. U-5710A	SHEET NO. PMP-1
APPROVED: <u>Ron King</u>	
DATE: <u>3/23/2022</u>	
SEAL 	
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INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE, GENERAL NOTES, ROADWAY STANDARD DRAWINGS, INDEX, AND PAVEMENT MARKING SCHEDULE
PMP-1A	ALTERNATE CURB RAMP DESIGNS
PMP-1B	HI-VISIBILITY CROSSWALKS NO-TRACK MARKING GUIDANCE
PMP-2 THRU PMP-9	PAVEMENT MARKING DETAILS

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	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) 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.

PAVEMENT MARKING SCHEDULE

(T2) THERMOPLASTIC 24" WHITE STOPBAR (90 MIL)	(TR) THERMOPLASTIC 8" WHITE SOLID LANE LINE (90 MIL)
(T3) THERMOPLASTIC 24" WHITE CROSSWALK LINE (90 MIL)	(TU) THERMOPLASTIC 12" WHITE DIAGONAL (90 MIL)
(T8) THERMOPLASTIC 4" 2'-6"/SP. WHITE MINI-SKIP (90 MIL)	(TV) THERMOPLASTIC 12" YELLOW DIAGONAL (90 MIL)
(T9) THERMOPLASTIC 4" 2'-6"/SP. YELLOW MINI-SKIP (90 MIL)	(TX) THERMOPLASTIC 4" 3'-9"/SP. YELLOW MINI-SKIP (90 MIL)
(T13) THERMOPLASTIC 8" 3'-9"/SP. WHITE MINI-SKIP (90 MIL)	(UA) THERMOPLASTIC LEFT TURN ARROW (90 MIL)
(TA) THERMOPLASTIC 4" WHITE EDGELINE (90 MIL)	(UB) THERMOPLASTIC RIGHT TURN ARROW (90 MIL)
(TB) THERMOPLASTIC 4" YELLOW EDGELINE (90 MIL)	(UC) THERMOPLASTIC STRAIGHT ARROW (90 MIL)
(TC) THERMOPLASTIC 4" 10'-30"/SP. WHITE SKIP (90 MIL)	(UE) THERMOPLASTIC COMBO RIGHT-STRAIGHT ARROW (90 MIL)
(TD) THERMOPLASTIC 4" 3'-9"/SP. WHITE MINI-SKIP (90 MIL)	(UI) THERMOPLASTIC ALPHANUMERIC CHARACTER (90 MIL)
(TE) THERMOPLASTIC 4" WHITE SOLID LANE LINE (90 MIL)	(UN) THERMOPLASTIC 24" YIELD LINE TRIANGLE (90 MIL)
(TI) THERMOPLASTIC 4" YELLOW DOUBLE CENTER (90 MIL)	
(TN) THERMOPLASTIC 8" WHITE GORELINE (90 MIL)	(MA) YELLOW & YELLOW RAISED MARKER
(TO) THERMOPLASTIC 8" WHITE DIAGONAL (90 MIL)	(MB) CRYSTAL & RED RAISED MARKER
(TP) THERMOPLASTIC 8" YELLOW DIAGONAL (90 MIL)	

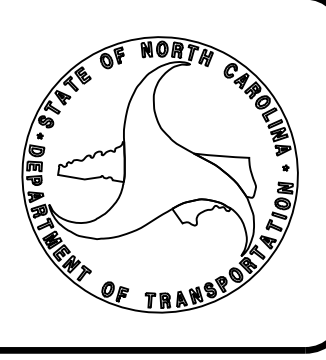
ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 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
1205.04	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
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

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

AYMAN ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER
MATTHEW TRACEY, P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER

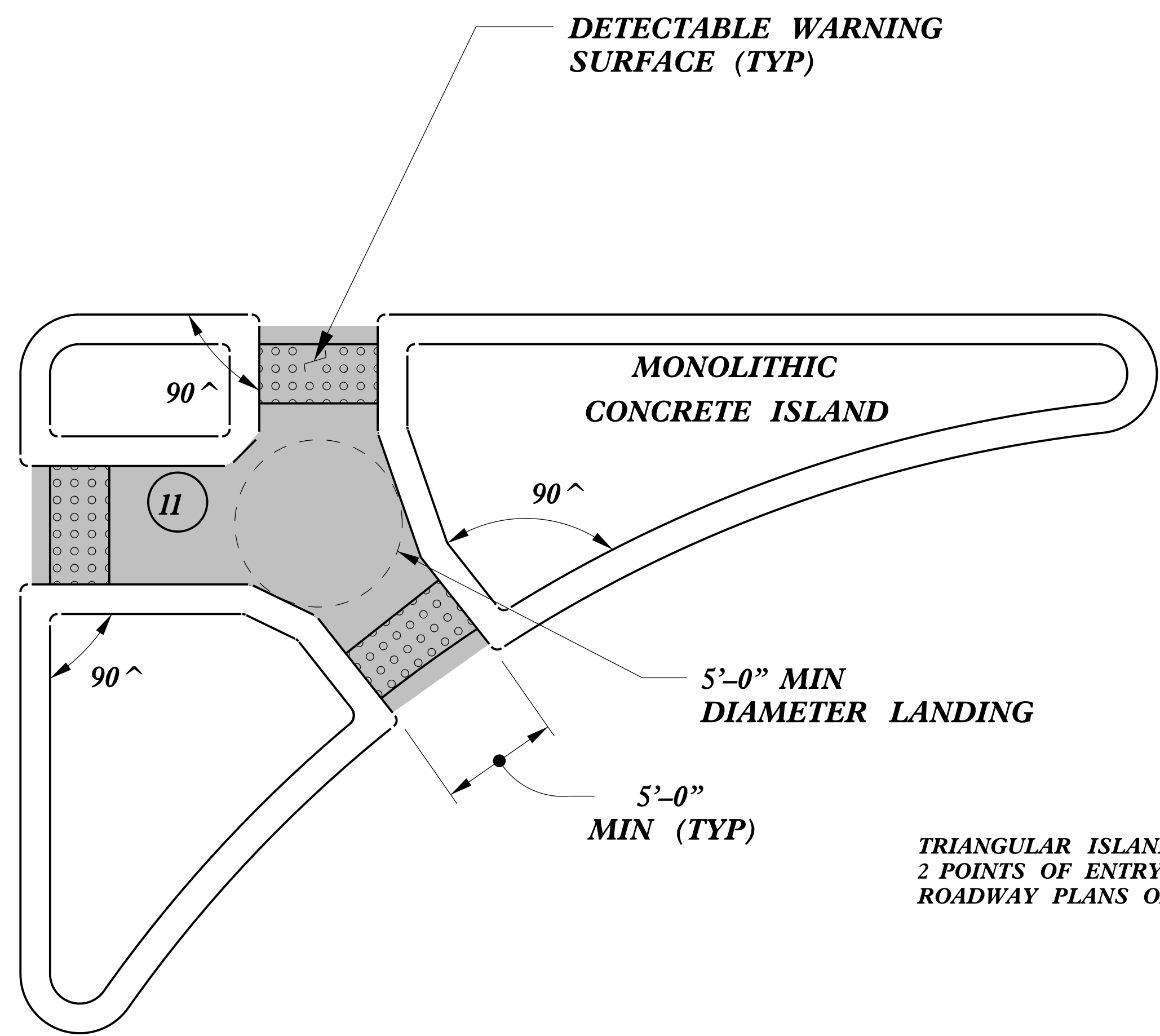


PLAN PREPARED BY: HDR ENGINEERING, INC. OF THE CAROLINAS

RON KING, P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER
CHRIS HARNDEN SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN

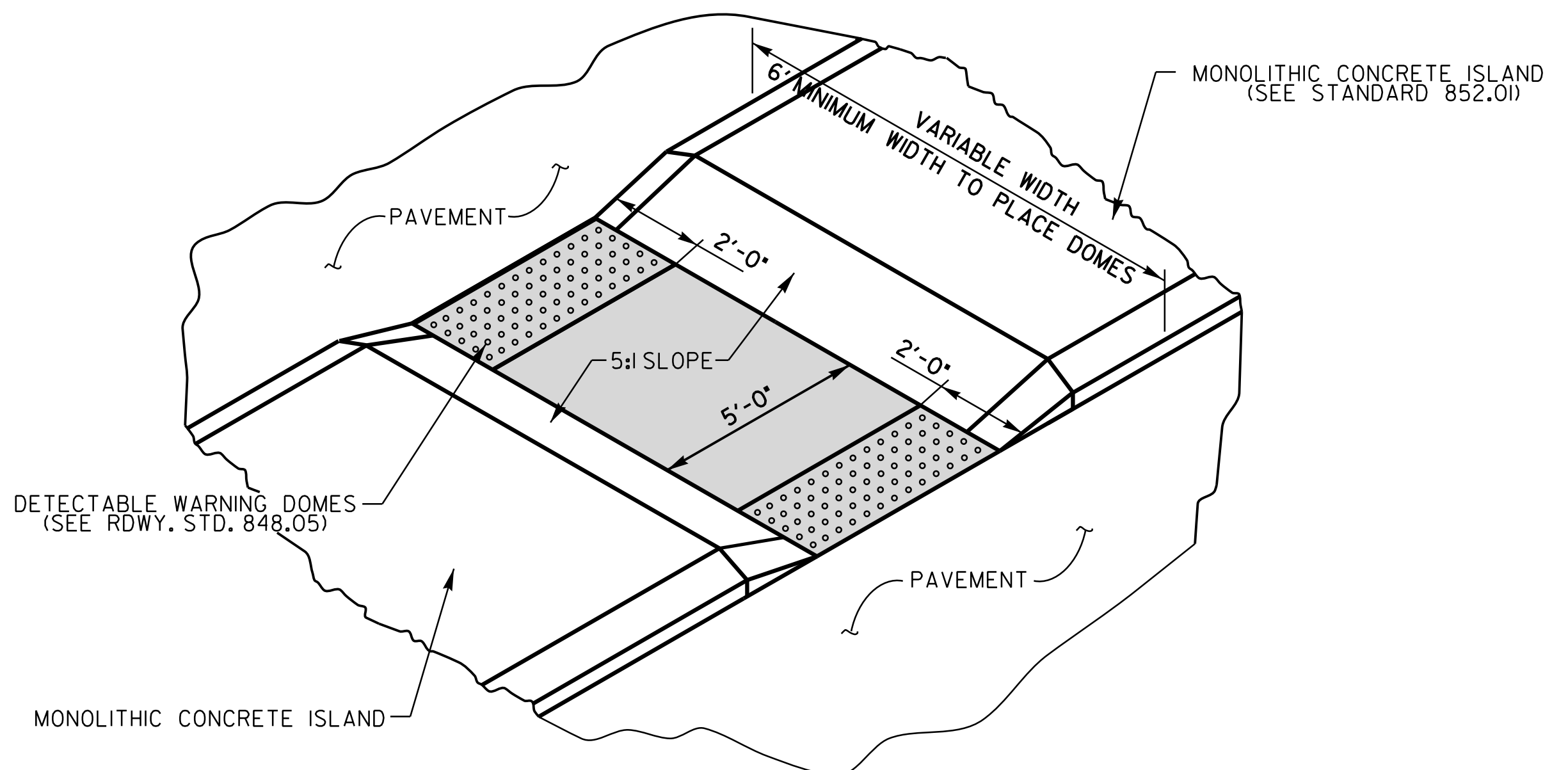
HDR HDR Engineering, Inc. of the Carolinas
355 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

█ PAY LIMITS FOR 1 CURB RAMP

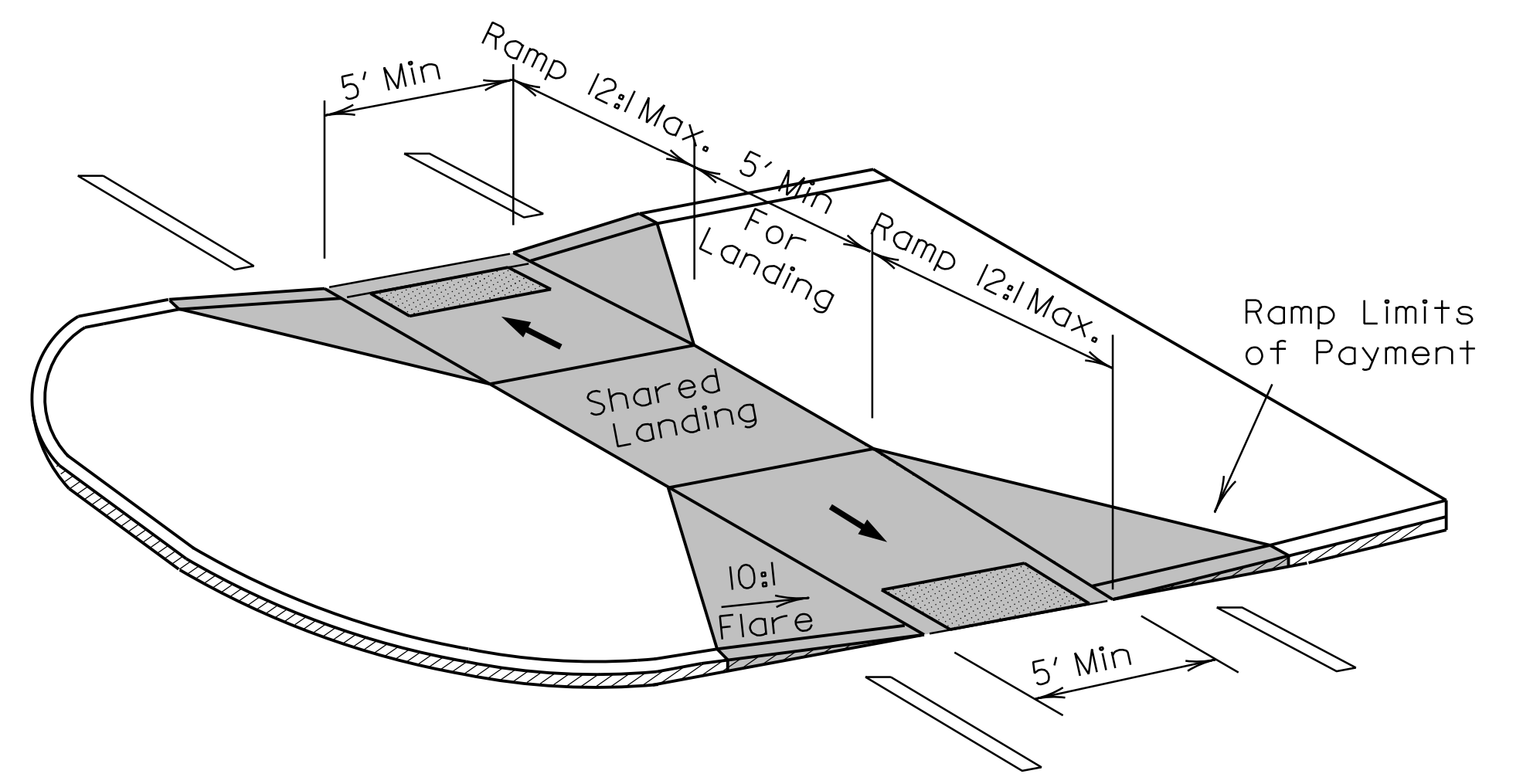


TRIANGULAR ISLANDS MAY BE CONSTRUCTED WITH ONLY 2 POINTS OF ENTRY AND EXIT AS SHOWN IN THE ROADWAY PLANS OR AS DIRECTED BY THE ENGINEER.

TRIANGULAR ISLAND WITH CUT THROUGH



MEDIAN ISLAND WITH CUT THROUGH



MEDIAN ISLAND CURB RAMPS

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS Median or Turn Lane Islands	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: s:\stds\2012CurbRamp\CurbRampDetails.dwg	

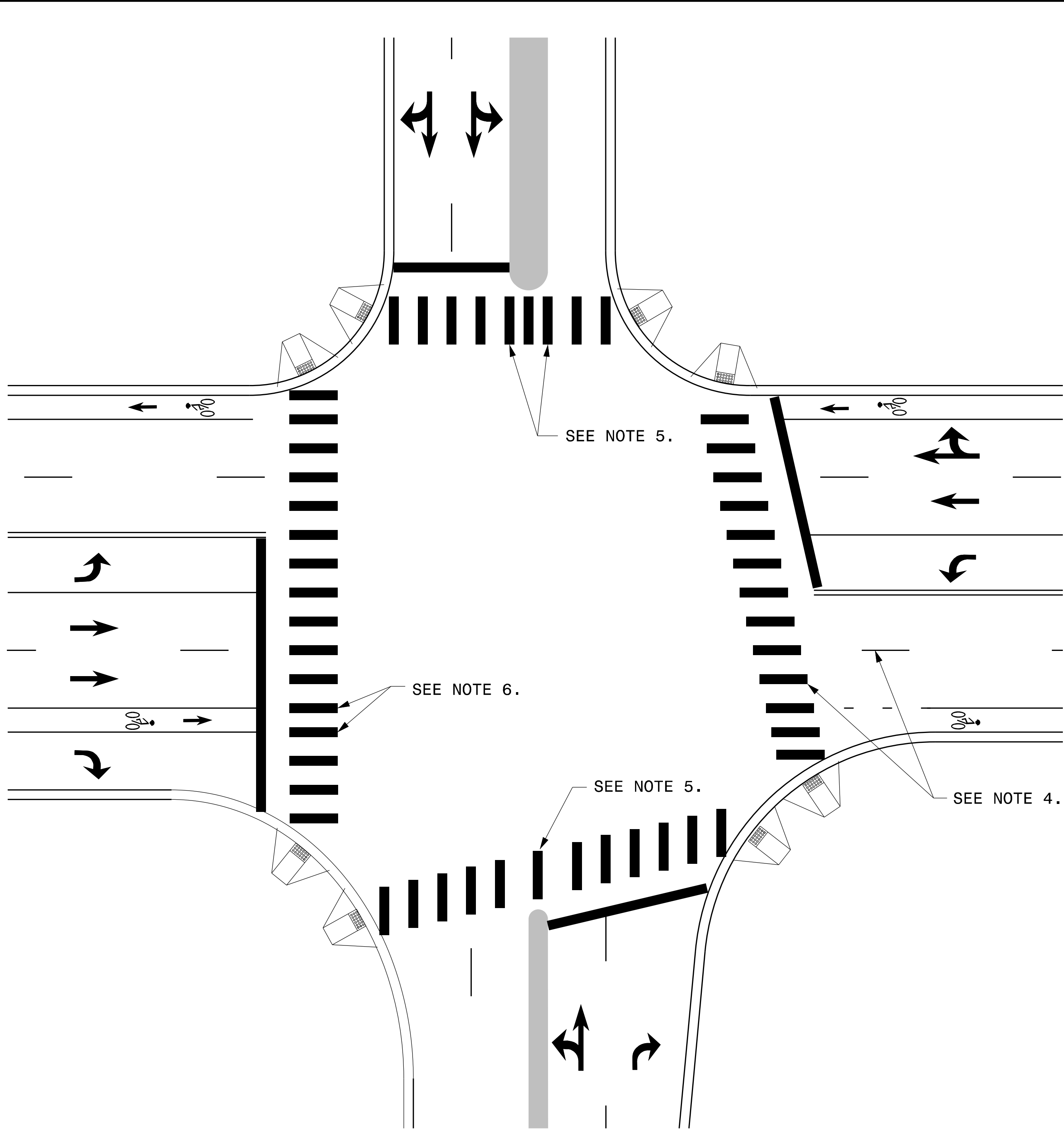
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

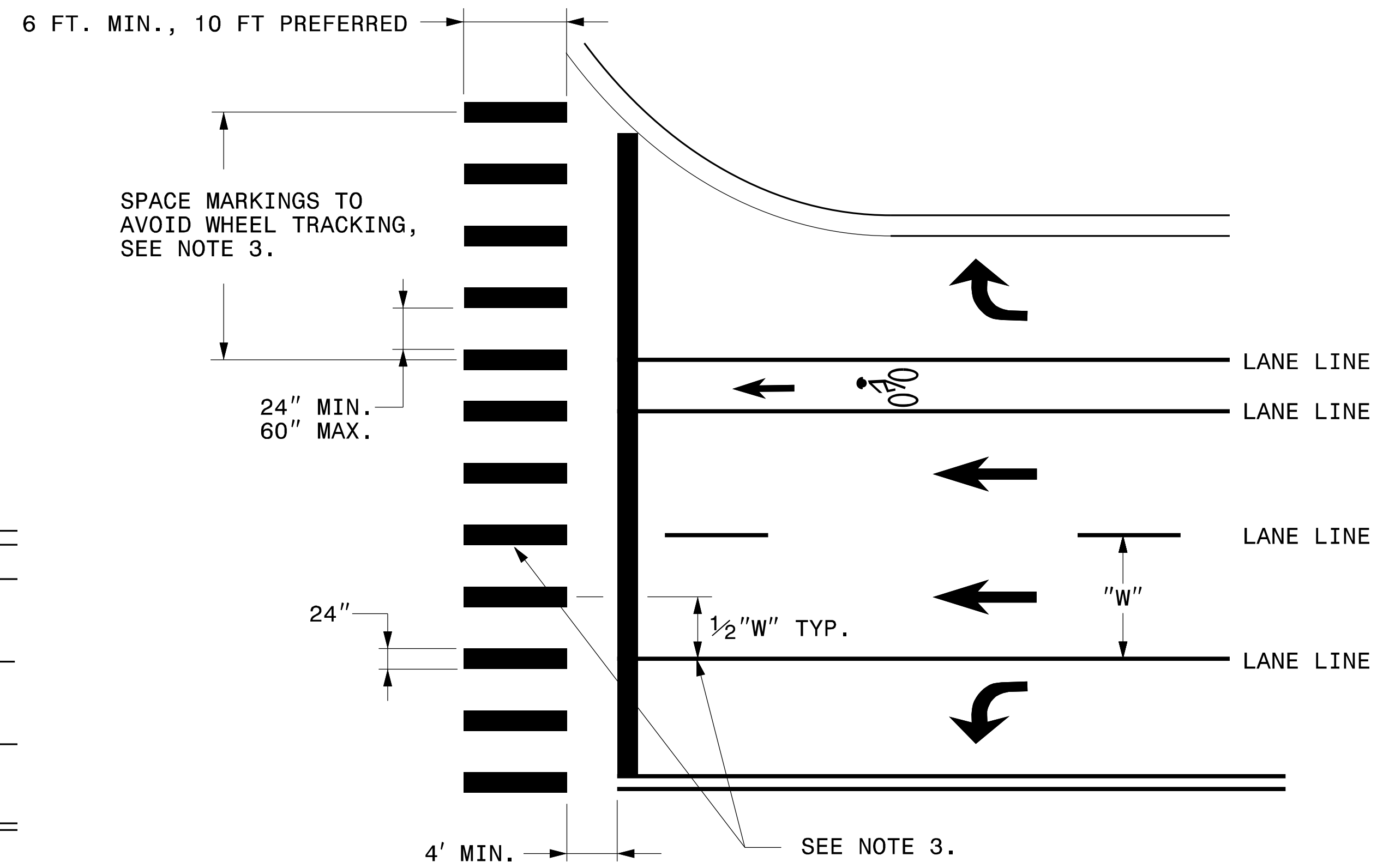
2-19

ENGLISH TYPICAL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE

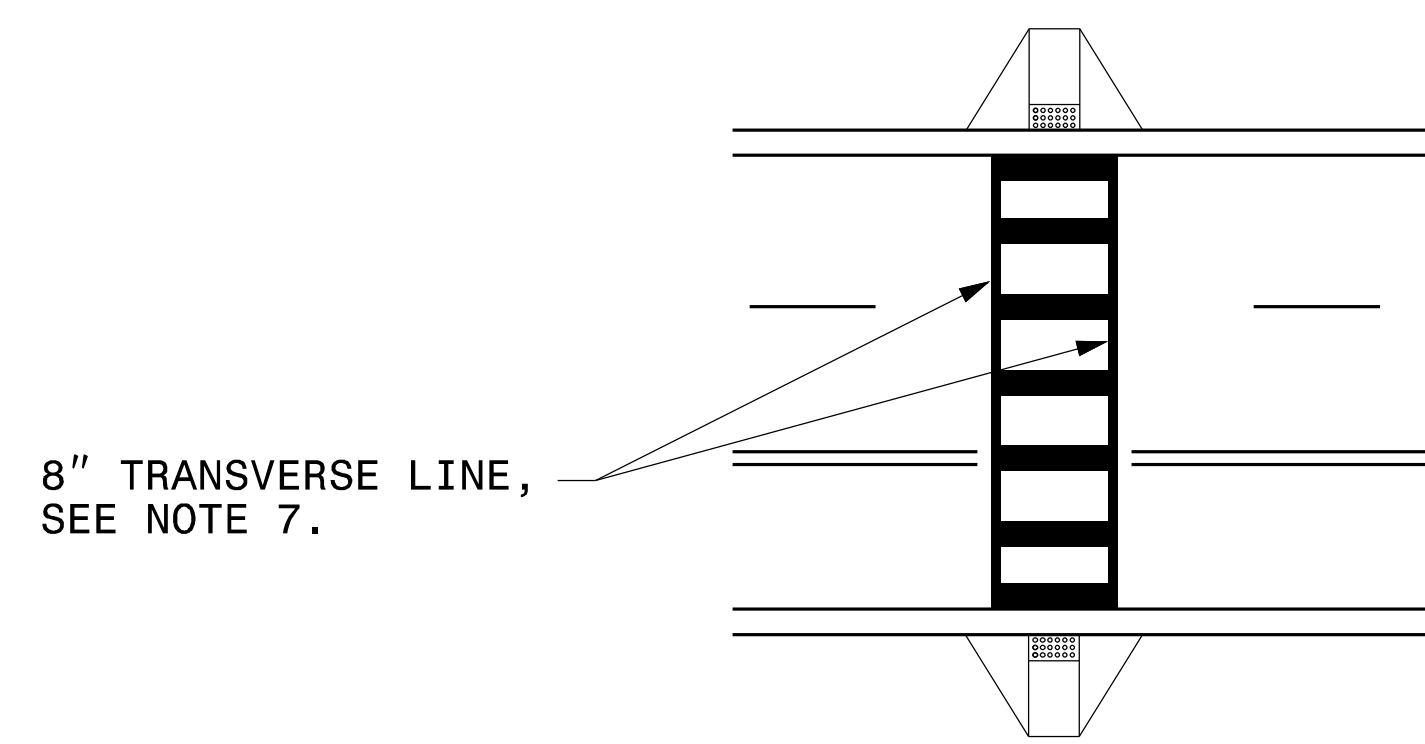
SHEET 1 OF 1
PMP-1B



CROSSWALK INTERSECTION DETAIL



CROSSWALK MARKING DETAIL



MID-BLOCK CROSSWALK DETAIL

GENERAL NOTES:

- 1- THE GUIDANCE IN THIS DETAIL IS TO BE USED WHEN NO-TRACK SPACING OF HI-VISIBILITY MARKINGS IS REQUESTED.
- 2- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH PAVEMENT MARKING GUIDANCE SHOWN ON ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.07.
- 3- PLACE MARKINGS TO AVOID WHEELPATH OF VEHICLES. MARKINGS TYPICALLY WILL BE LOCATED CENTERED AT THE LANE LINES AND EDGE LINES WITH ONE ADDITIONAL MARKING CENTERED IN THE MIDDLE OF THE LANE. AT WIDE LANE WIDTHS DUE TO TAPERS AND LARGE RADII, LOCATE MARKINGS AT BEST SPACING TO AVOID WHEEL TRACKING. THE SPACE BETWEEN MARKINGS SHALL NOT BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.

- 4- WHERE THE CROSSWALK IS SKEWED TO THE LANE LINES, THE MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
- 5- PLACE MARKINGS ON BOTH EDGES OF THE NOSE OF A MEDIAN. FOR NARROW MEDIANS LESS THAN 4 FEET, A SINGLE MARKING MAY BE USED. FOR WIDE MEDIANS, INSTALL ADDITIONAL MARKINGS IN THE MEDIAN AREA. THE SPACE BETWEEN THE MARKINGS SHALL NOT TO BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 6- LOCATE MARKINGS CENTERED ON BICYCLE LANE LINES. MARKINGS SHALL NOT BE LOCATED IN THE CENTER OF THE BICYCLE PATH.
- 7- INCLUDE 8" TRANSVERSE LINES WITH 24" LONGITUDINAL MARKINGS AT MID-BLOCK CROSSINGS.


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

2-19


ENGLISH TYPICAL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE

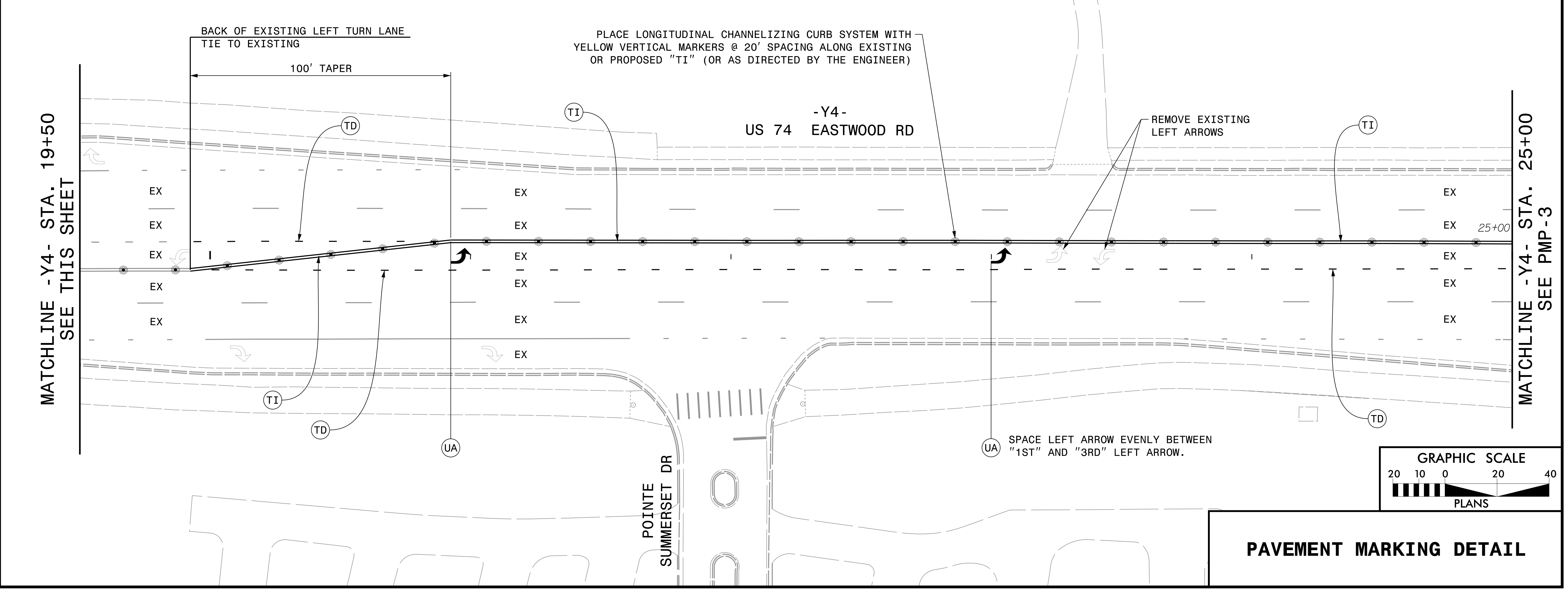
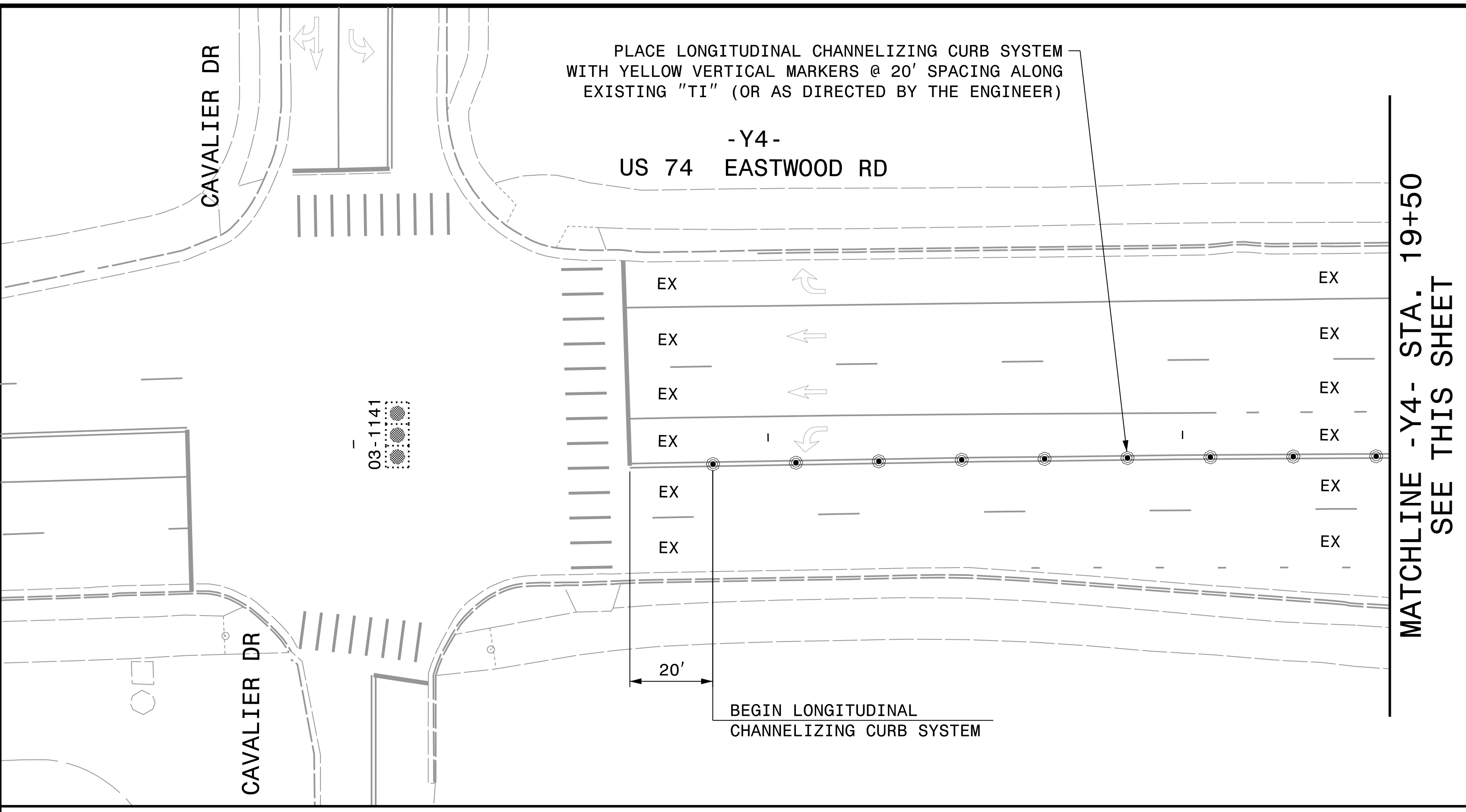
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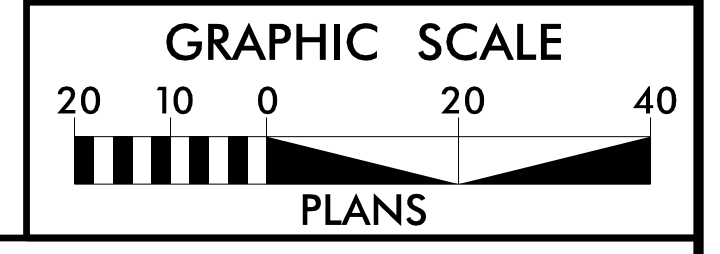


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TIP NO. U-5710A	SHEET NO. PMP-2
APPROVED: <i>Ron King</i>	
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UA SPACE LEFT ARROW EVENLY BETWEEN "1ST" AND "3RD" LEFT ARROW.



PAVEMENT MARKING DETAIL

APPROVED: Ron King

DATE: 12/10/2021

SEAL

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**CURB RAMP LOCATIONS
(CENTER OF RAMP AT FACE OF CURB)**

1	-L- STA. 10+68.66, 72.16' LT
2	-L- STA. 10+68.68, 83.50' RT

(T2) STOPBAR LOCATIONS

1	-L- STA. 10+76.96, 16.50' LT to -L- STA. 10+76.96, 58.74' LT
2	-Y4- STA. 27+97.26, 8.25' LT to -Y4- STA. 27+97.26, 3.75' RT
3	-Y4- STA. 29+33.56, 15.17' LT to -Y4- STA. 29+33.55, 55.74' LT

FOR ALL CROSSWALKS, USE ROADWAY STANDARD DRAWING ON PMP-1B. ALL SPACING IS 6' ON CENTER, UNLESS SHOWN DIFFERENTLY ON THIS SHEET.

PLACE LONGITUDINAL CHANNELIZING CURB SYSTEM WITH YELLOW VERTICAL MARKERS @ 20' SPACING ALONG EXISTING OR PROPOSED "TI" (OR AS DIRECTED BY THE ENGINEER)

PLACE LONGITUDINAL CHANNELIZING CURB SYSTEM WITH YELLOW VERTICAL MARKERS @ 10' SPACING ON THE INSIDE EDGE OF PROPOSED "TI" (OR AS DIRECTED BY THE ENGINEER)

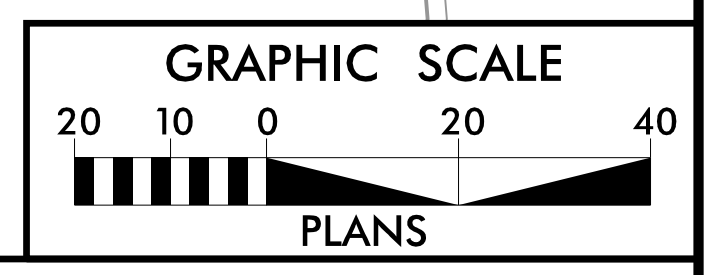
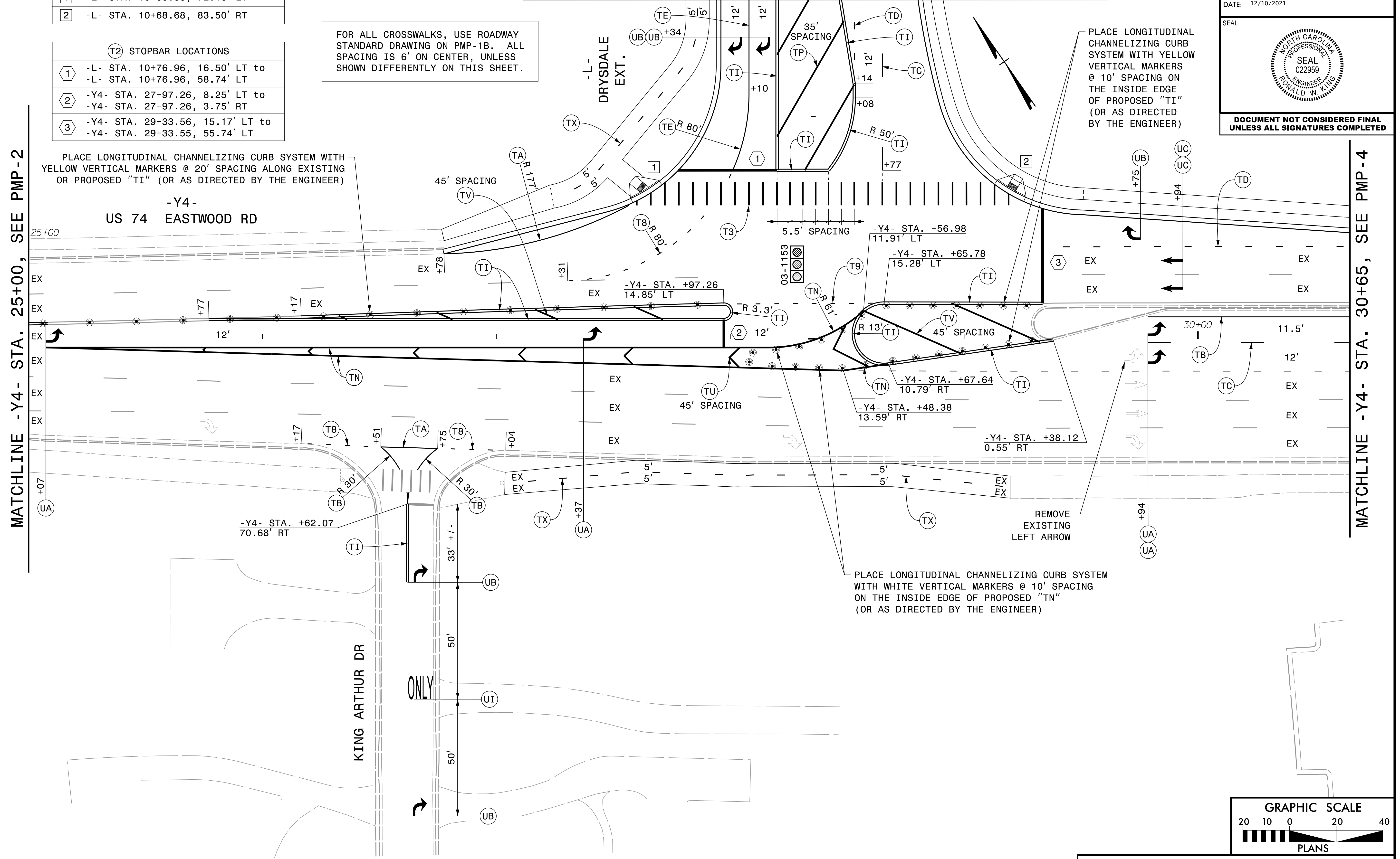
PLACE LONGITUDINAL CHANNELIZING CURB SYSTEM WITH WHITE VERTICAL MARKERS @ 10' SPACING ON THE INSIDE EDGE OF PROPOSED "TN" (OR AS DIRECTED BY THE ENGINEER)

REMOVE EXISTING LEFT ARROW

MATCHLINE -Y4- STA. 25+00, SEE PMP-2

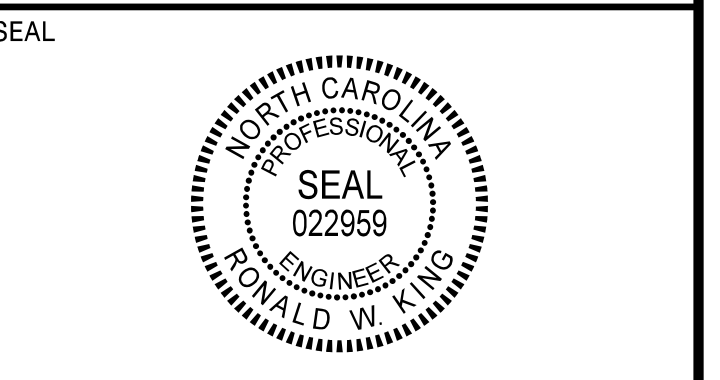
MATCHLINE -Y4- STA. 30+65, SEE PMP-4

MATCHLINE -L- STA. 11+50, SEE PMP-5

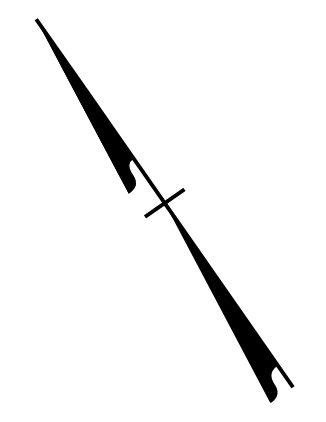


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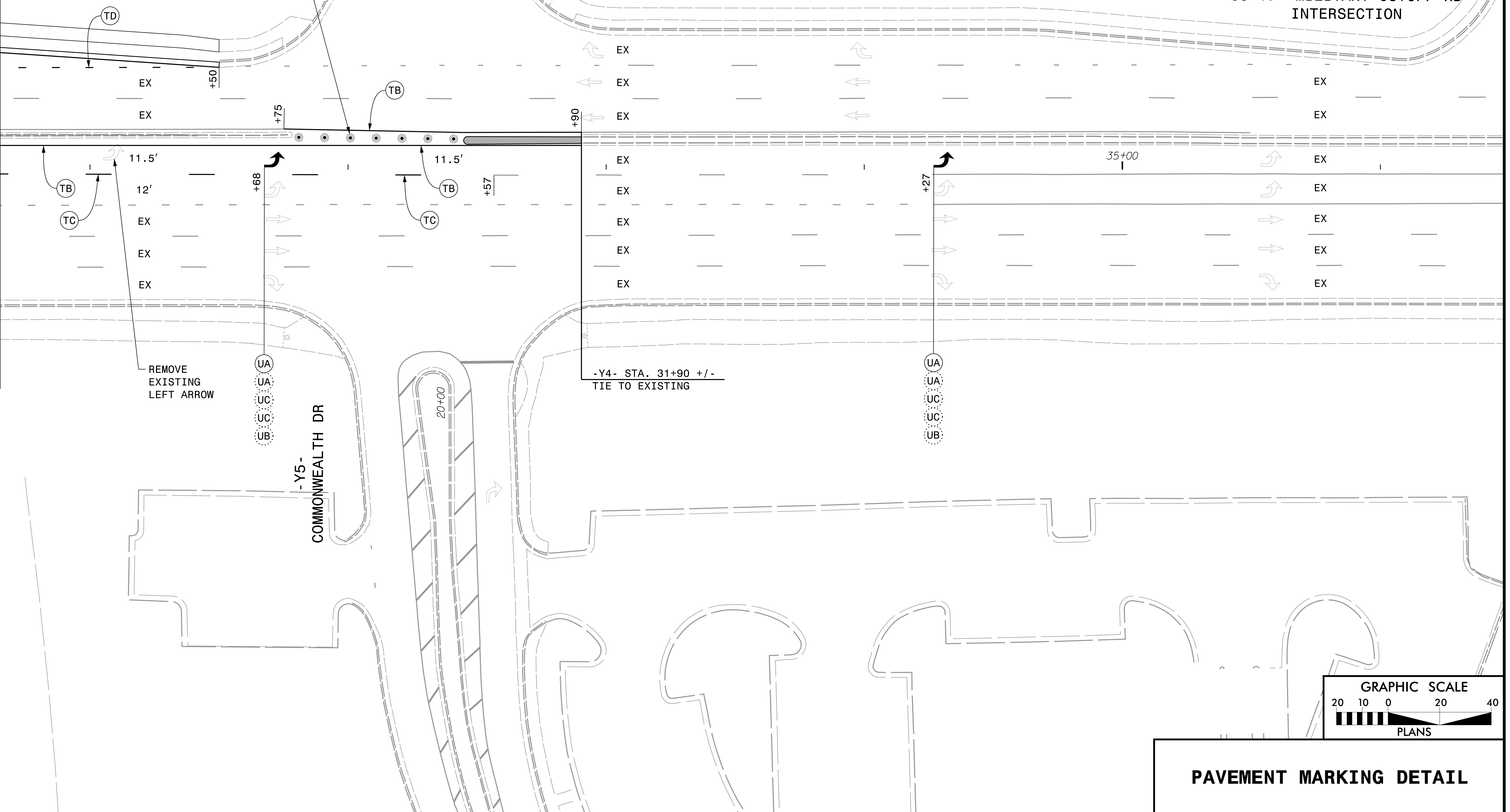


MATCHLINE -Y4- STA. 30+65, SEE PMP-3

PLACE LONGITUDINAL CHANNELIZING CURB SYSTEM
WITH YELLOW VERTICAL MARKERS @ 10' SPACING
(OR AS DIRECTED BY THE ENGINEER)

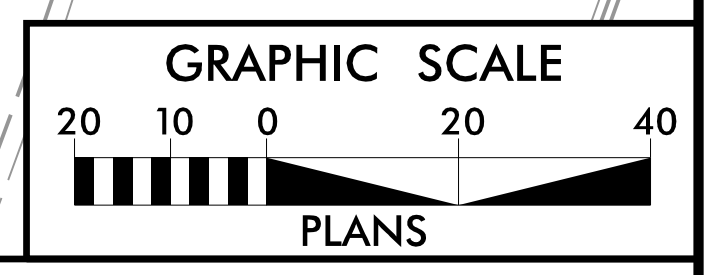
**-Y4-
US 74 EASTWOOD RD**

**US 74 EASTWOOD RD/
US 17 MILITARY CUTOFF RD
INTERSECTION**



REMOVE
EXISTING
LEFT ARROW

**-Y4- STA. 31+90 +/-
TIE TO EXISTING**



PAVEMENT MARKING DETAIL

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APPROVED: *Ron King*

DATE: 12/10/2021

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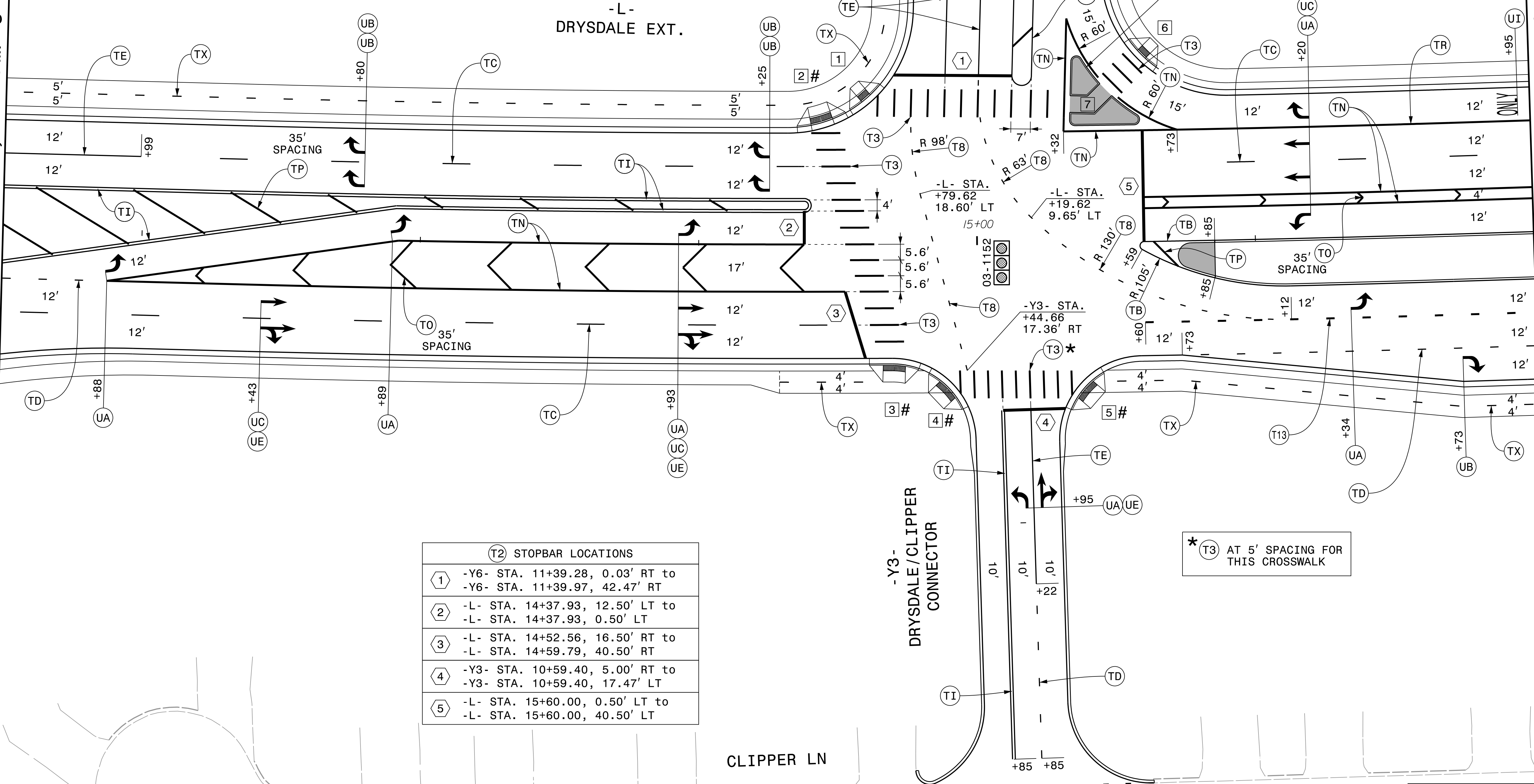
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CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)		TRIANGULAR ISLAND CUT THROUGH (CENTER OF PATHS AT FACE OF ISLAND)	
1	-Y6- STA. 11+47.97, 52.80' RT	7	-Y6- STA. 11+43.50, 33.75' LT
2#	-L- STA. 14+44.55, 44.32' LT		-Y6- STA. 11+48.94, 21.00' LT
3#	-L- STA. 14+70.13, 42.51' RT		
4#	-Y3- STA. 10+50.82, 24.09' RT		
5#	-Y3- STA. 10+52.33, 24.42' LT		
6	-Y6- STA. 11+30.52, 46.22' LT		
# OVERSIZED CURB RAMP (8' WIDTH MIN.)			

FOR ALL CROSSWALKS, USE ROADWAY STANDARD DRAWING ON PMP-1B. ALL SPACING IS 6' ON CENTER, UNLESS SHOWN DIFFERENTLY ON THIS SHEET.

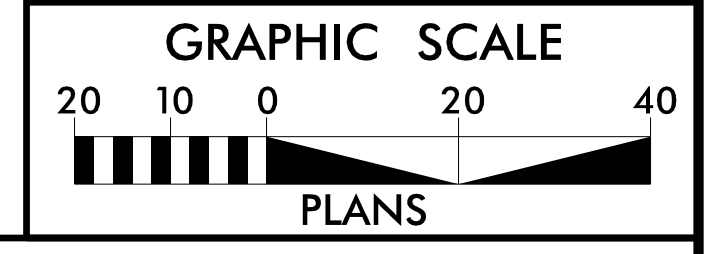
MATCHLINE -L- STA. 11+50, SEE PMP-3

MATCHLINE -L- STA. 17+00, SEE PMP-6



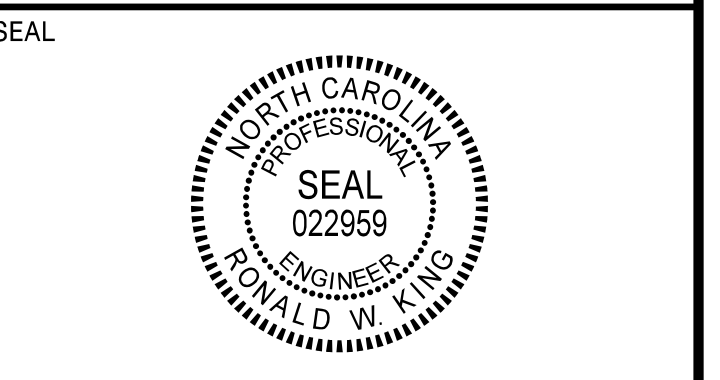
(T2) STOPBAR LOCATIONS	
1	-Y6- STA. 11+39.28, 0.03' RT to -Y6- STA. 11+39.97, 42.47' RT
2	-L- STA. 14+37.93, 12.50' LT to -L- STA. 14+37.93, 0.50' LT
3	-L- STA. 14+52.56, 16.50' RT to -L- STA. 14+59.79, 40.50' RT
4	-Y3- STA. 10+59.40, 5.00' RT to -Y3- STA. 10+59.40, 17.47' LT
5	-L- STA. 15+60.00, 0.50' LT to -L- STA. 15+60.00, 40.50' LT

* (T3) AT 5' SPACING FOR THIS CROSSWALK

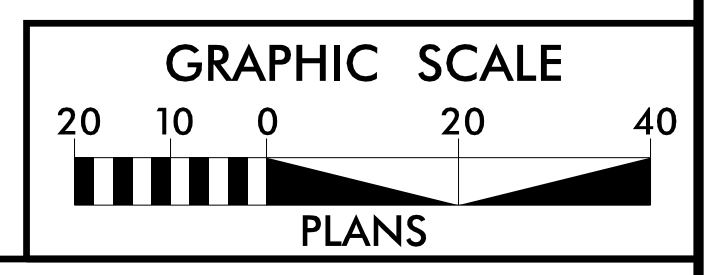
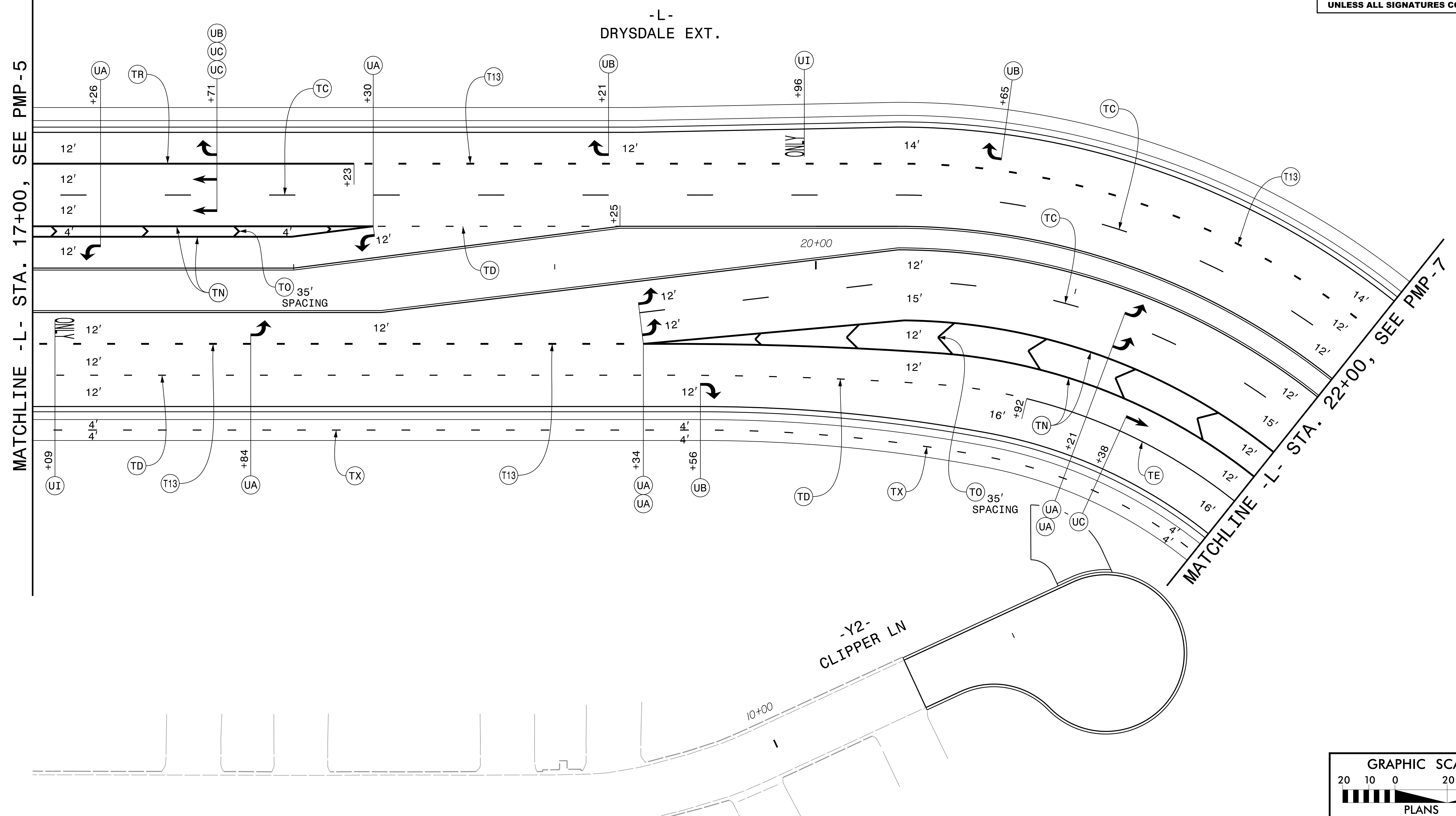
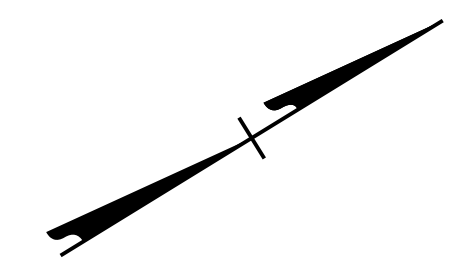


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PENTABLE: NCDOT_tcp.tbl
 TIME: 2:51:36 PM

MATCHLINE -Y7- STA. 11+25, SEE THIS SHEET


HDR HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

TIP NO.	SHEET NO.
U-5710A	PMP-7

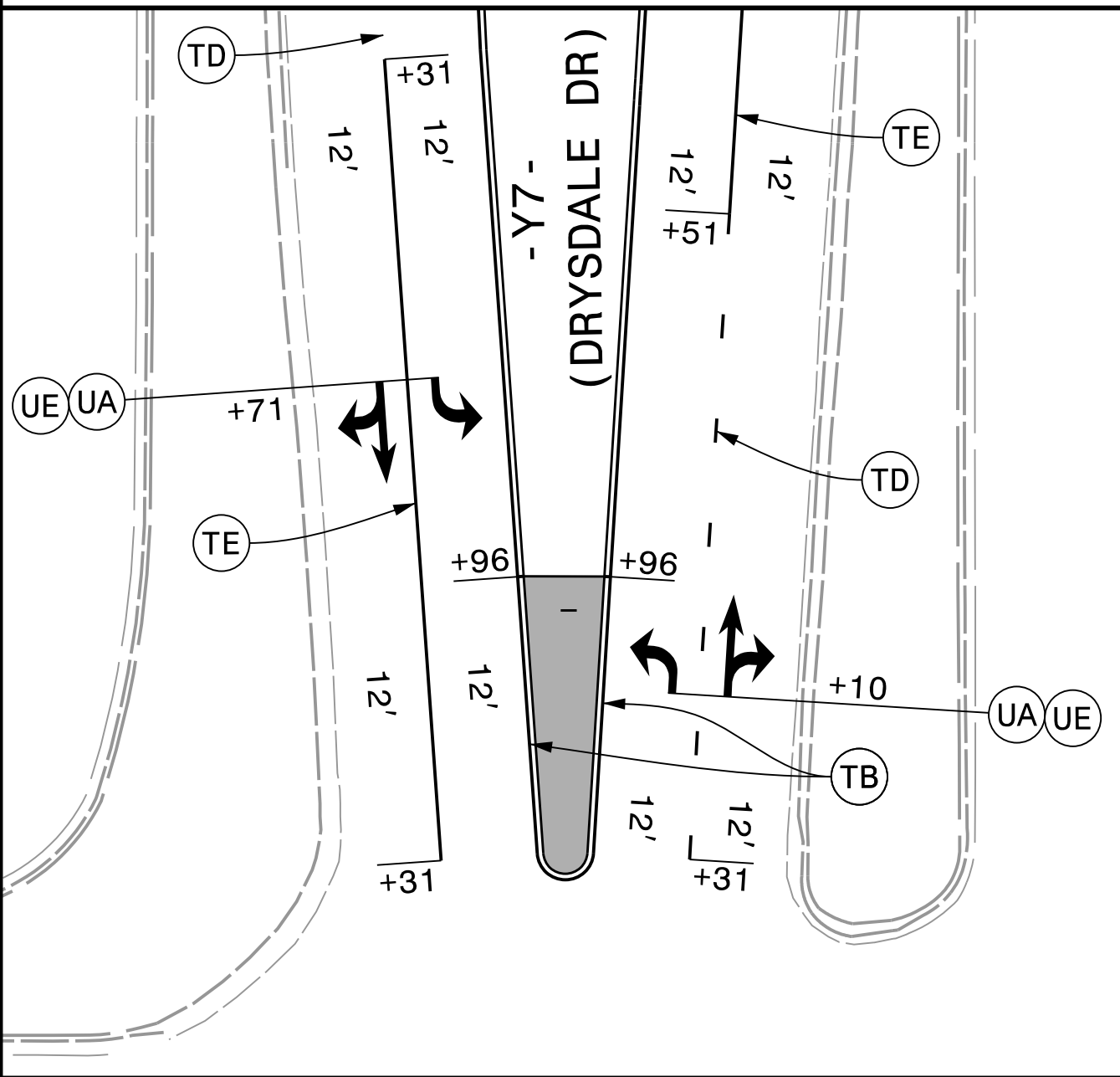
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DATE: 12/10/2021

SEAL



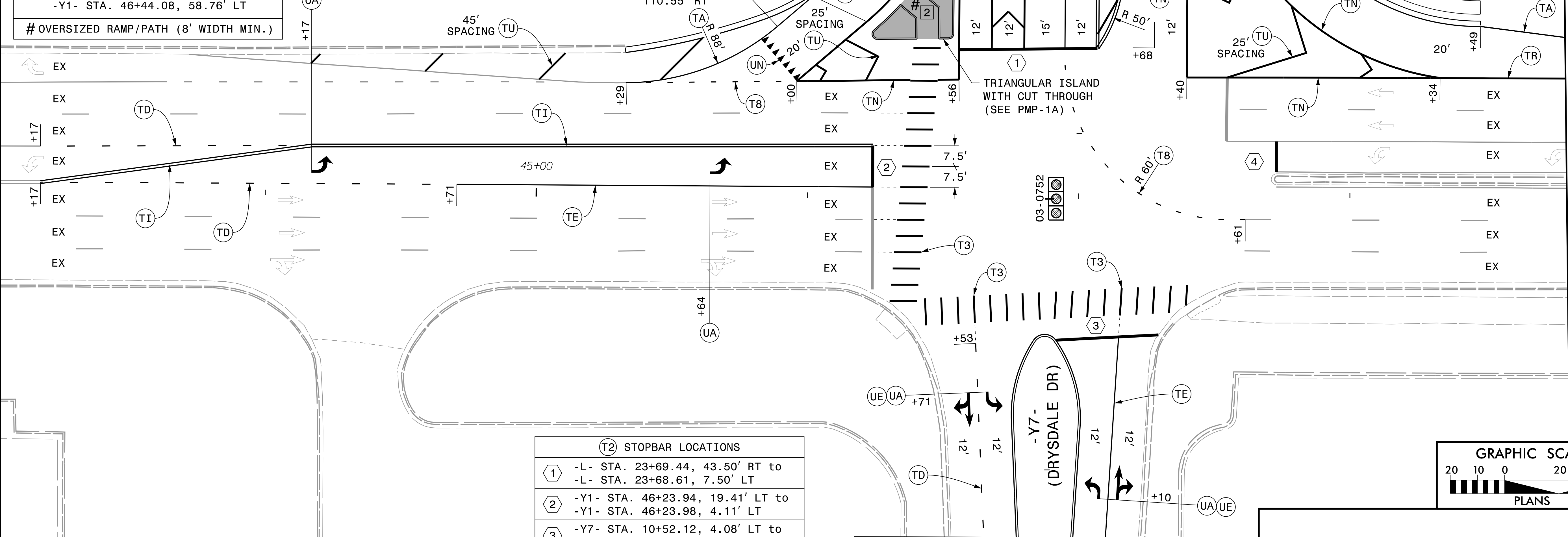
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FOR ALL CROSSWALKS, USE ROADWAY STANDARD DRAWING ON PMP-1B. ALL SPACING IS 6' ON CENTER, UNLESS SHOWN DIFFERENTLY ON THIS SHEET.

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
1#	-L- STA. 23+33.17, 82.69' RT
TRIANGULAR ISLAND CUT THROUGH (CENTER OF PATHS AT FACE OF ISLAND)	
2#	-L- STA. 23+49.74, 62.65' RT -Y1- STA. 46+44.08, 58.76' LT
# OVERSIZED RAMP/PATH (8' WIDTH MIN.)	

-Y1-
US 17 MILITARY CUTOFF RD

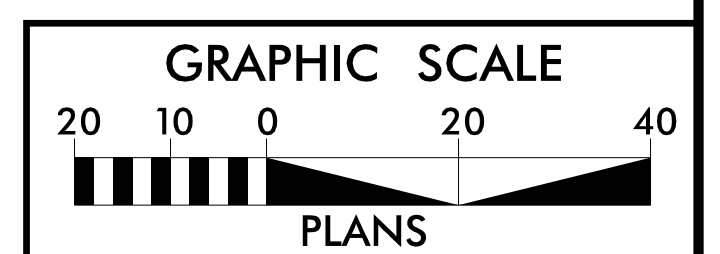


(T2) STOPBAR LOCATIONS

1	-L- STA. 23+69.44, 43.50' RT to -L- STA. 23+68.61, 7.50' LT
2	-Y1- STA. 46+23.94, 19.41' LT to -Y1- STA. 46+23.98, 4.11' LT
3	-Y7- STA. 10+52.12, 4.08' LT to -Y7- STA. 10+50.03, 41.95' LT
4	-Y1- STA. 47+72.91, 9.85' LT to -Y1- STA. 47+72.94, 21.08' LT

MATCHLINE -Y7- STA. 11+25, SEE INSET

MATCHLINE -Y1- STA. 48+80, SEE PMP-8



PAVEMENT MARKING DETAIL

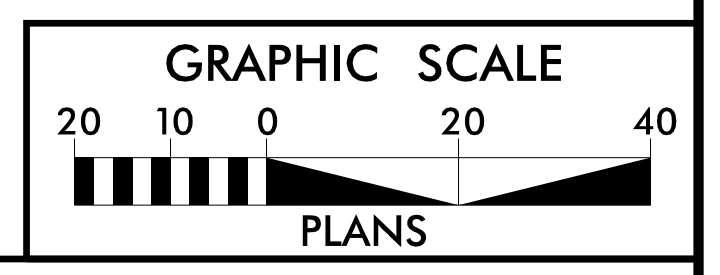
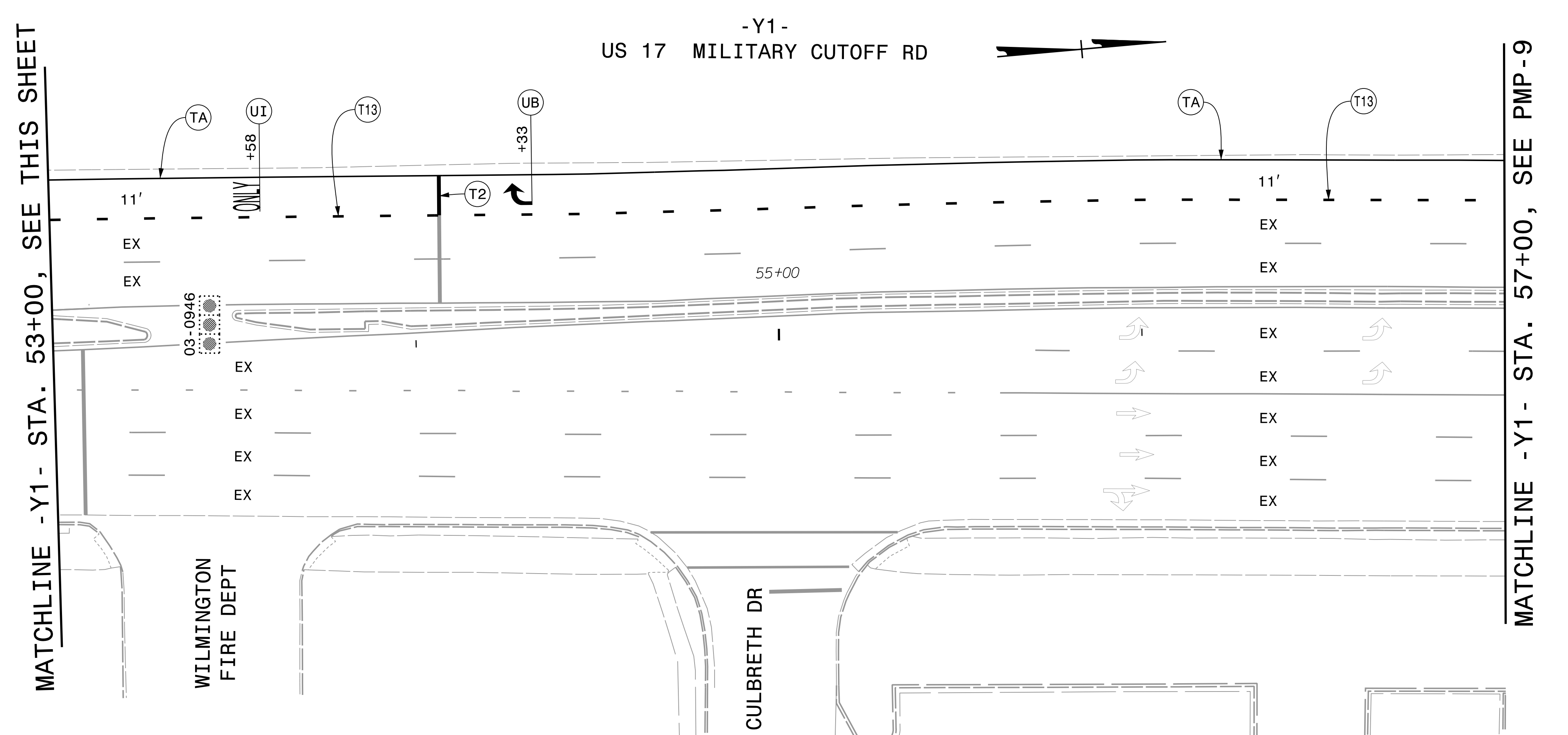
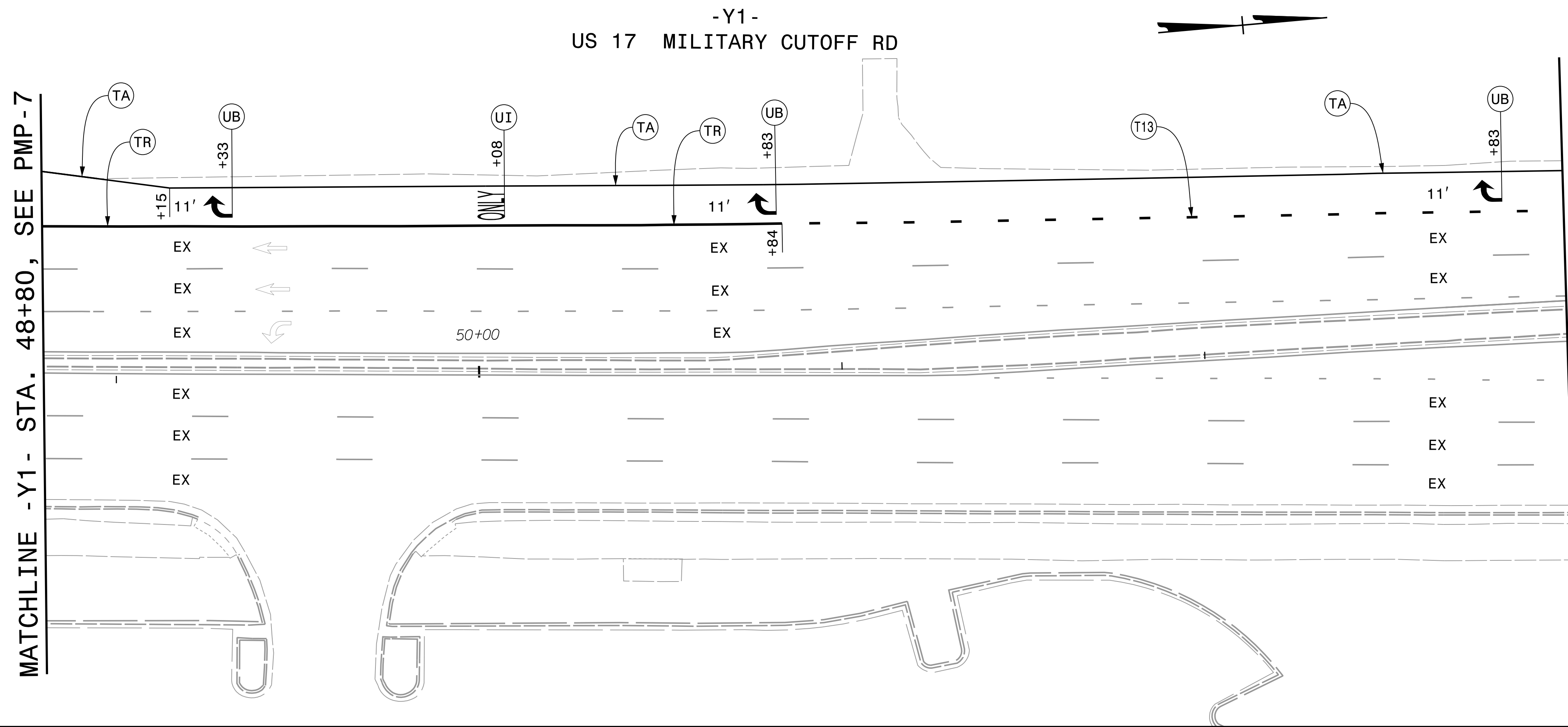
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 DATE: 12/9/2021

APPROVED: *Ron King*

DATE: 12/10/2021

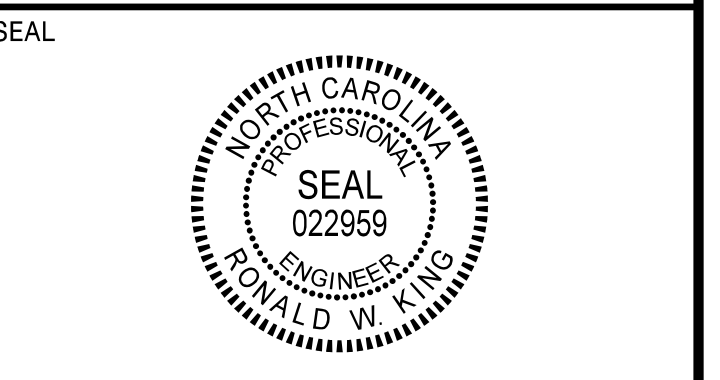


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PAVEMENT MARKING DETAIL

PLOT DRIVER: NCDOT_color_eng_50.plt
USER: CHARNDEN
DATE: 12/9/2021
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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

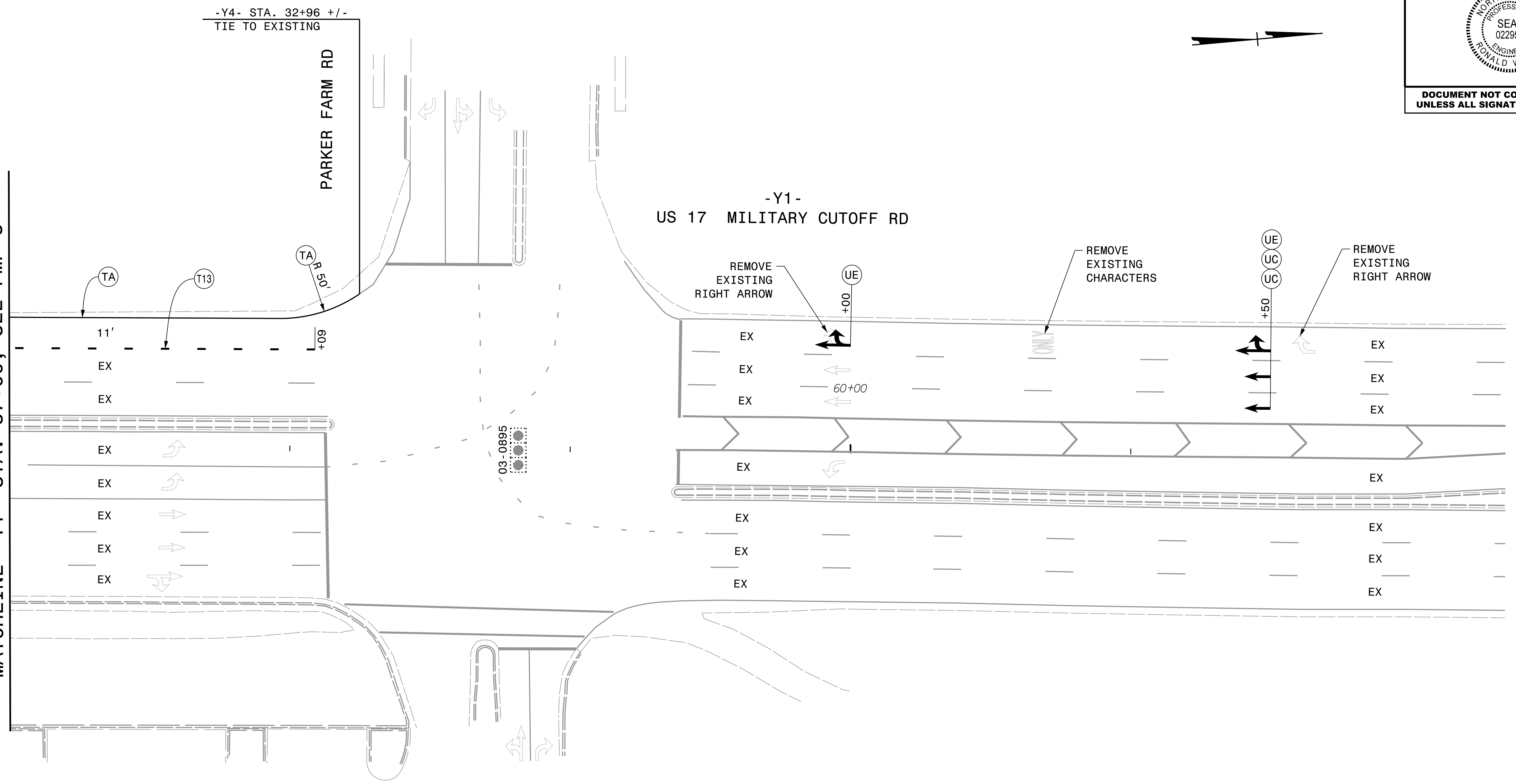


MATCHLINE -Y1- STA. 57+00, SEE PMP-8

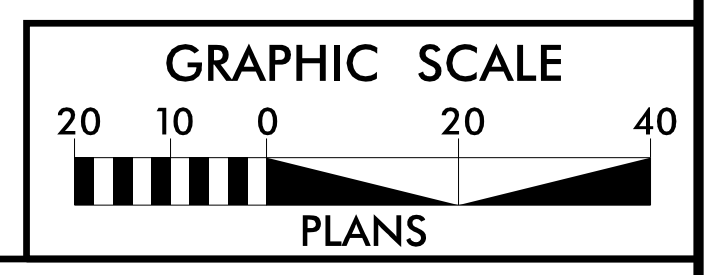
-Y4- STA. 32+96 +/-
TIE TO EXISTING

PARKER FARM RD

-Y1-
US 17 MILITARY CUTOFF RD



PLOT DRIVER: NCDOT_pdf_color_eng_50.plt
 USER: CHARNDEN
 FILE: p:\PWAPP\PA01\SouthEast-Tampa\Documents\000166\CON092456\000000000241571\06.00.Project-Engineering_and_Design\U-5710A\Traffic\Pavement_Markings\U5710A_PMP_PMP09.dgn



PAVEMENT MARKING DETAIL