


TIP NO. 17BP.3.R.28	SHEET NO. PMP-01A
APPROVED: <i>Melissa B. Toth</i>	
DATE: 6/16/2014	
SEAL	
	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
NEW HANOVER COUNTY**

**LOCATION: INTERSECTION OF SR 1436 /US 421 TRUCK
(FRONT STREET) AND SR 1140 (BURNETT BOULEVARD)
SOUTH OF WILLARD STREET**

PROJECT: 17BP.3.R.28

CONTRACT:

INDEX

SHEET NO.	DESCRIPTION
PMP-01A	PAVEMENT MARKING PLAN COVER SHEET
PMP-01B & 01C	REVISED STANDARD SHEETS
PMP-01D & 01E	CURB RAMP DETAILS
PMP-01	PAVEMENT MARKING DETAIL

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
848.05	CURB RAMP - PROPOSED CURB AND GUTTER
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
1205D06 (SHEET 1 OF 3)	PAVEMENT MARKINGS - LANE DROPS (REVISED)
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205D08 (SHEET 3 OF 8)	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES (REVISED)
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

GENERAL NOTES

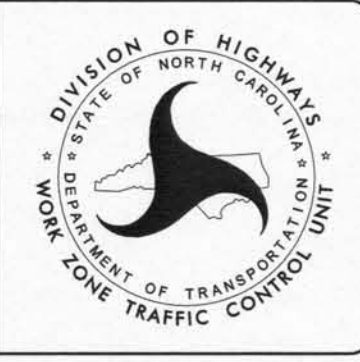
THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	PERMANENT RAISED
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) 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.

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

AYMAN ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER
MITCH EATON SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: ATKINS

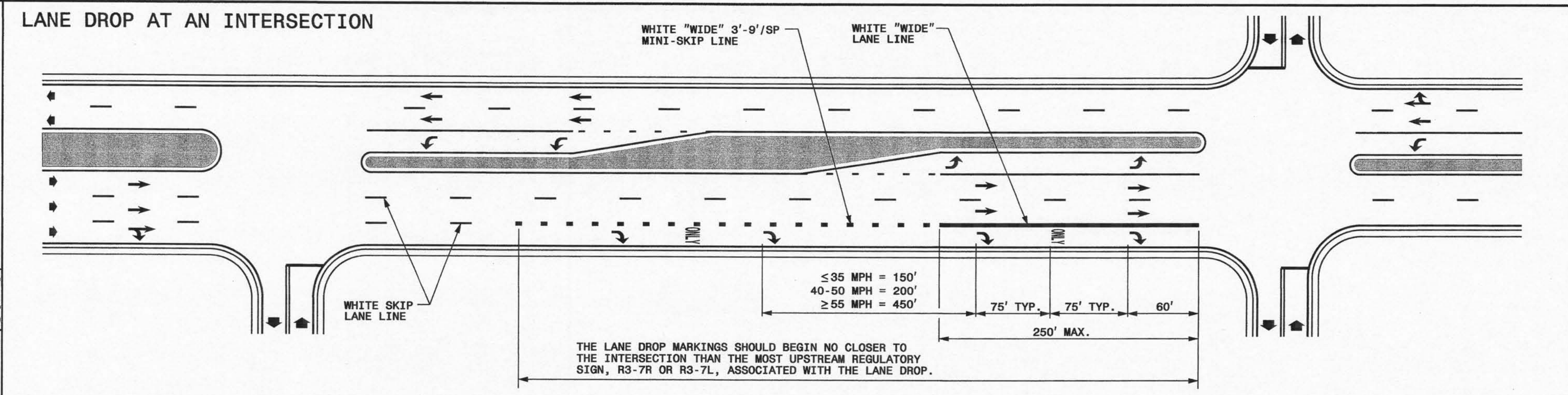
MELISSA TOTH, PE PROJECT ENGINEER
ABRAHAM WILES DESIGN TECHNICIAN

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

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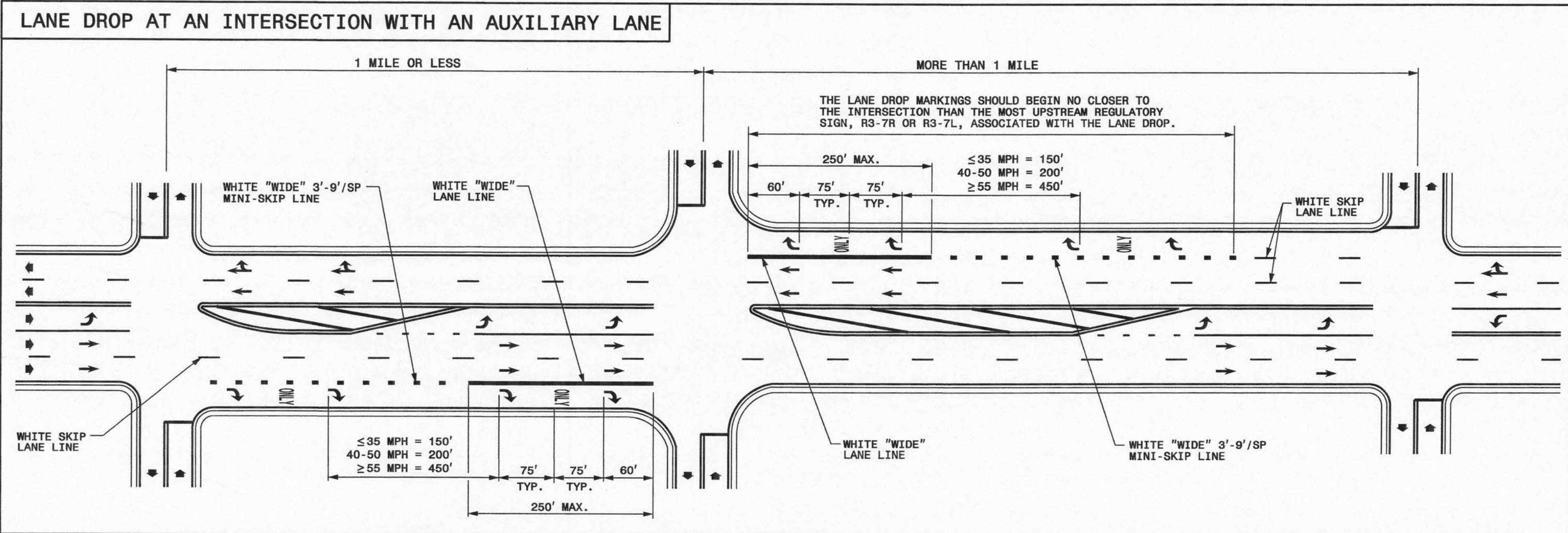
TIP NO. 17BP.3.R.28	SHEET NO. PMP-01B
APPROVED: <i>RW</i>	
DATE: 3/6/12	
SEAL	
	

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



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

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
LANE DROPS



ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
LANE DROPS

- 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	PAVEMENT MARKING SYMBOLS & CHARACTERS
← DIRECTION OF TRAFFIC FLOW	

SHEET 1 OF 3
1205D06

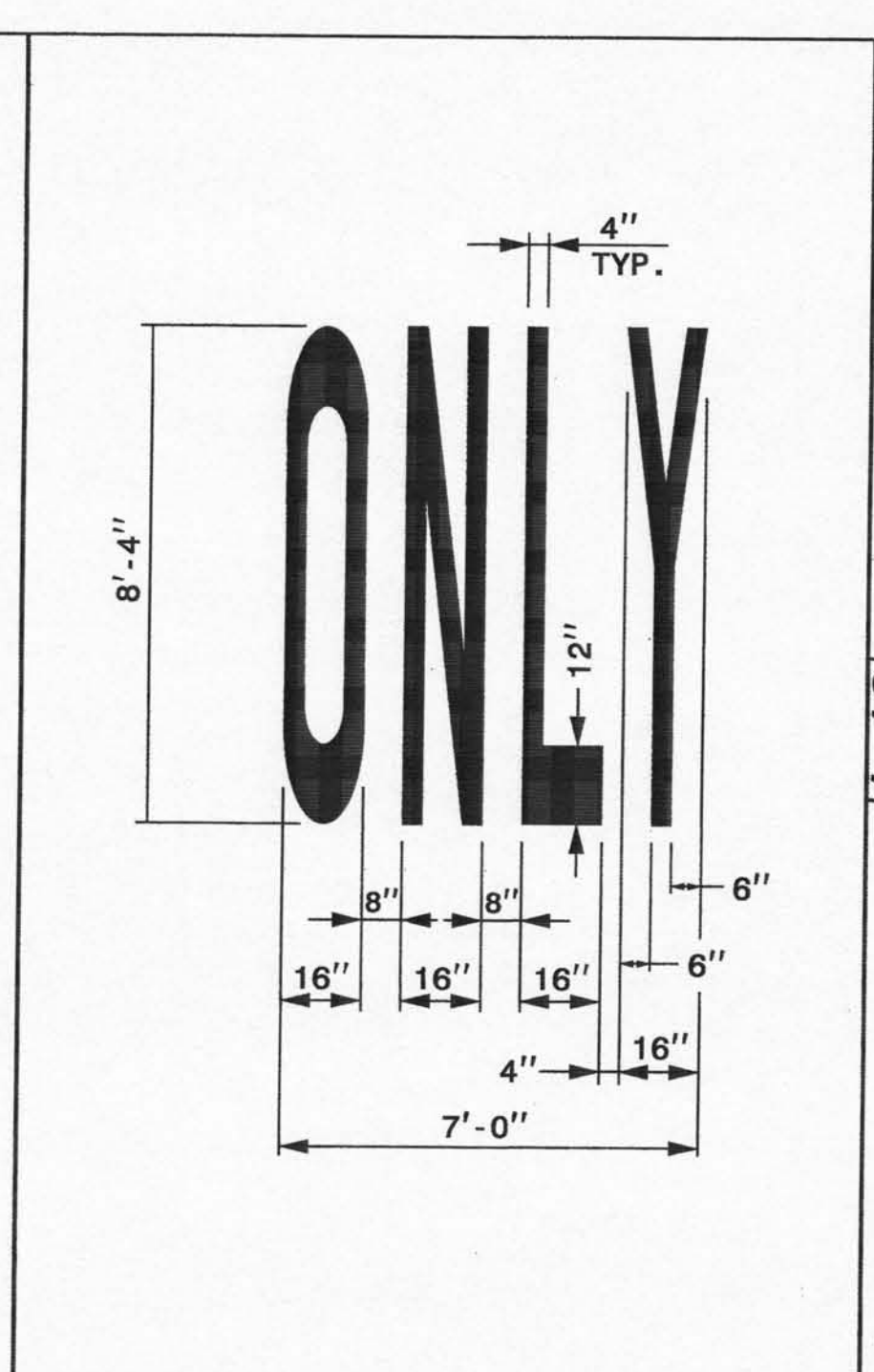
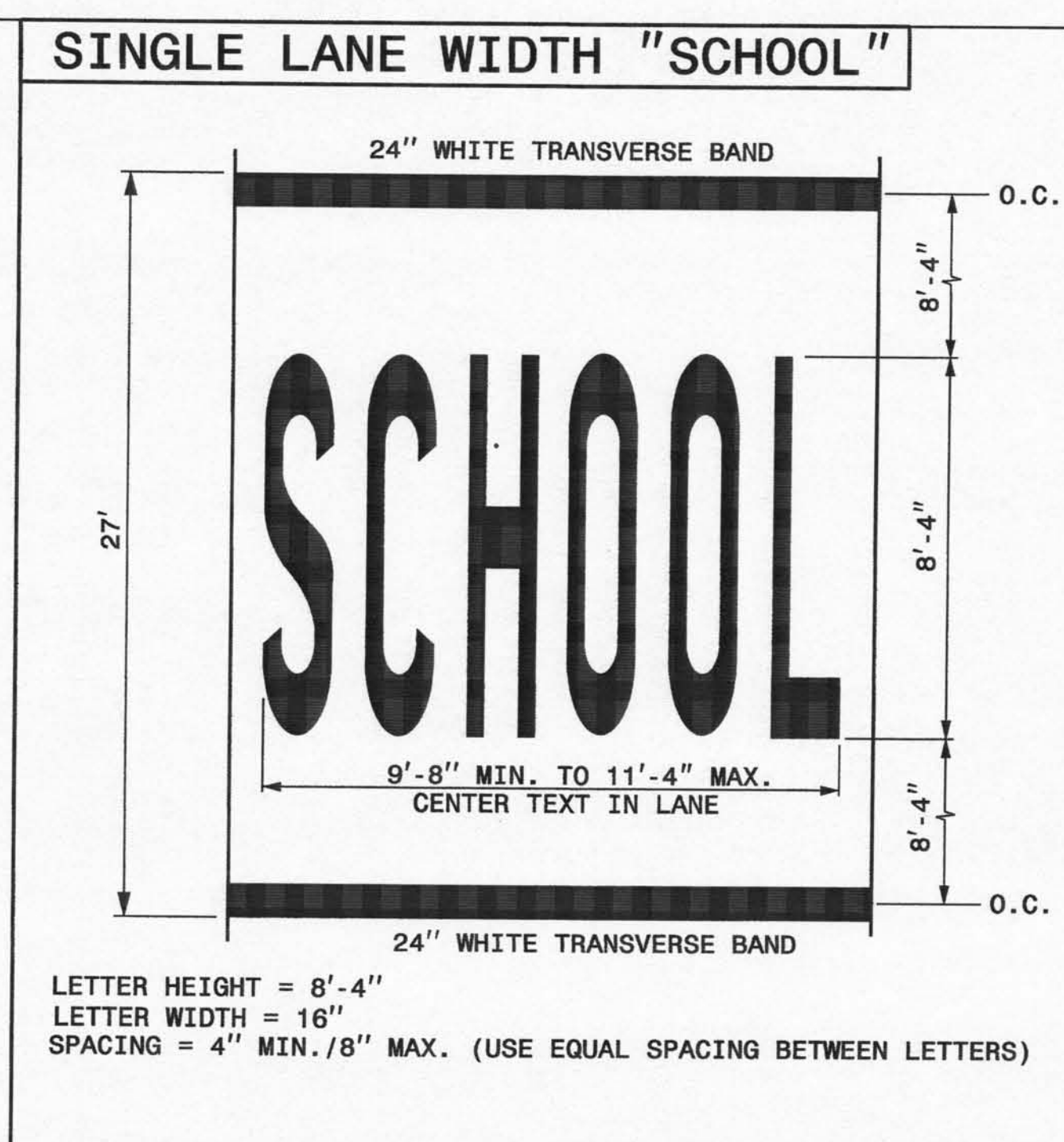
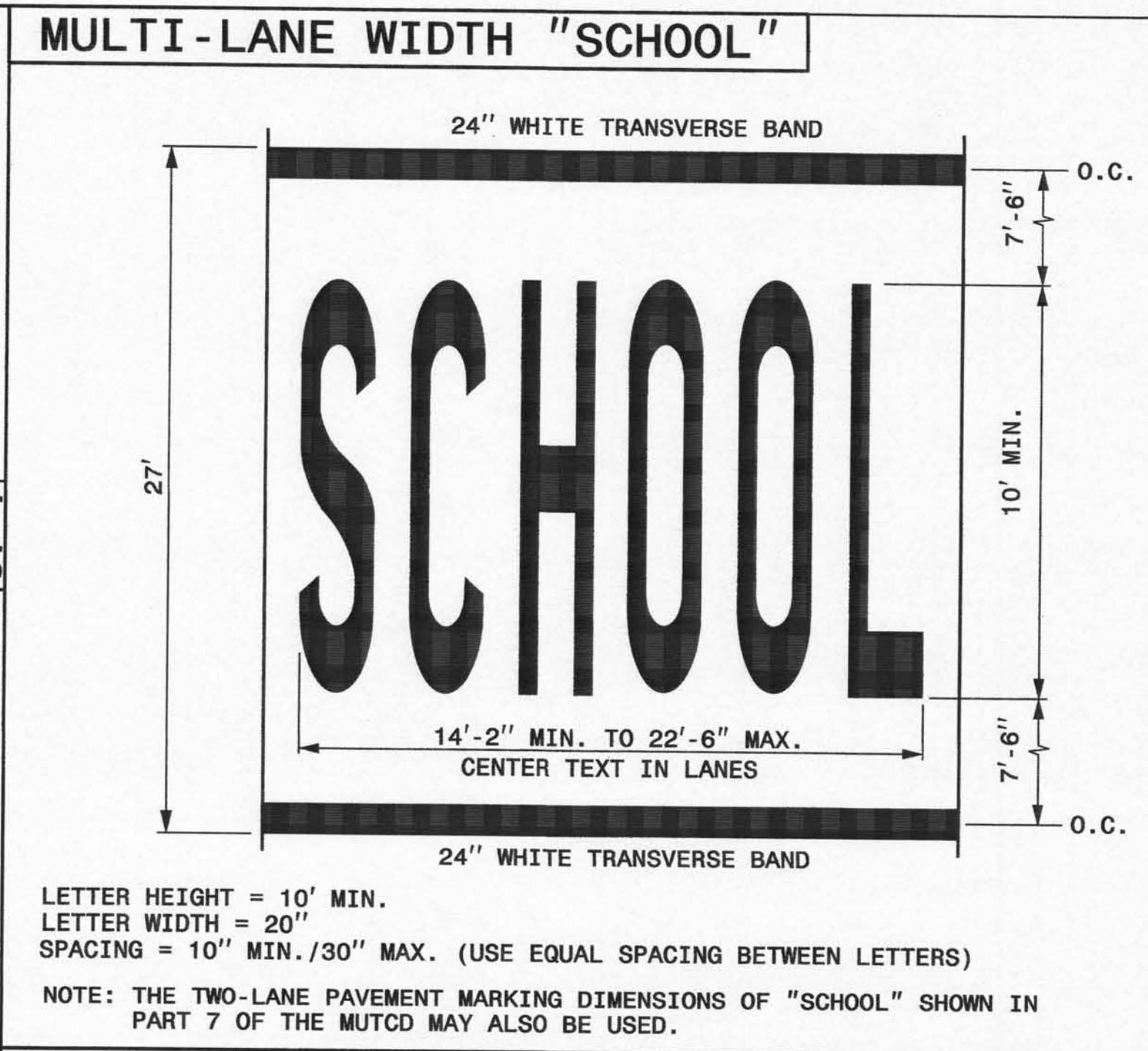
SHEET 1 OF 3
1205D06

REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING

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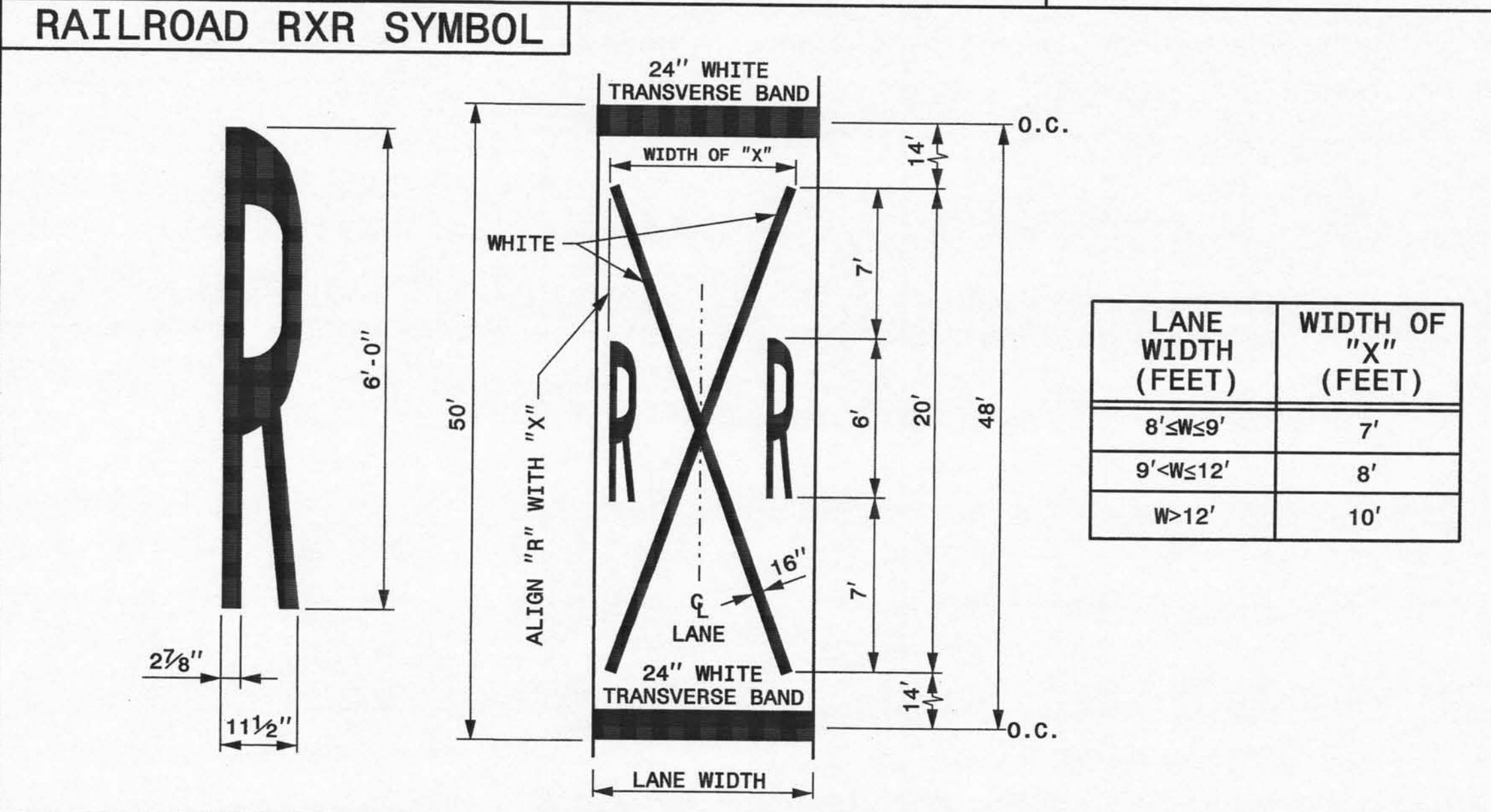
TIP NO.	SHEET NO.
17BP.3.R.28	PMP-01C
APPROVED: <i>RWT</i>	
DATE: 12/8/12	
SEAL	
	

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



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

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES



ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
SYMBOLS AND WORD MESSAGES

GENERAL NOTES:

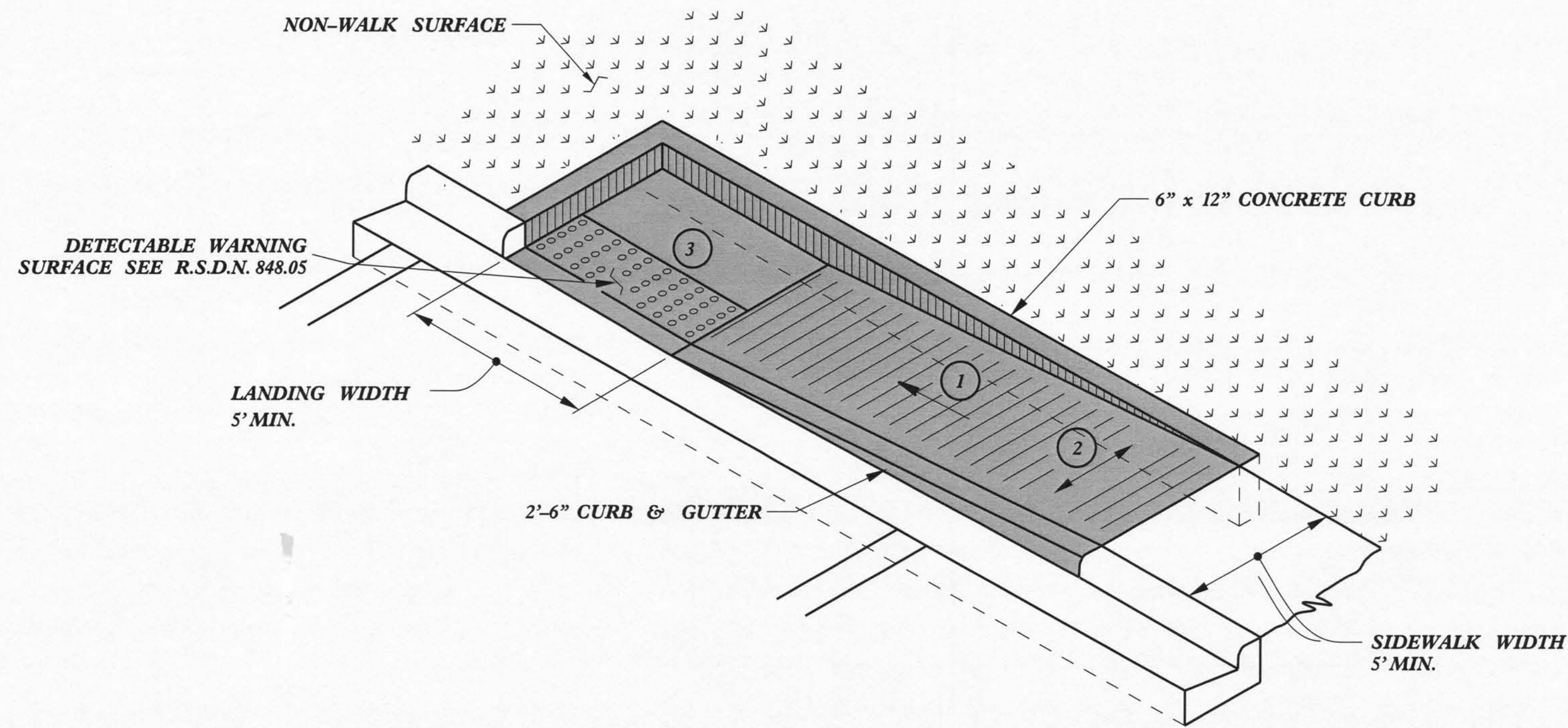
- 1- THE SCHOOL PAVEMENT MARKING CONSISTS OF SIX (6) CHARACTERS. THE TWO (2) 24" TRANSVERSE BANDS WILL BE PAID FOR UNDER A SEPARATE PAY ITEM. REFER TO ROADWAY STANDARD DRAWING 1205.10 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.
- 2- PAVEMENT MARKING IN ADVANCE OF A HIGHWAY-RAIL CROSSING SHALL CONSIST OF 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.


SHEET 3 OF 8
1205D08

SHEET 3 OF 8
1205D08

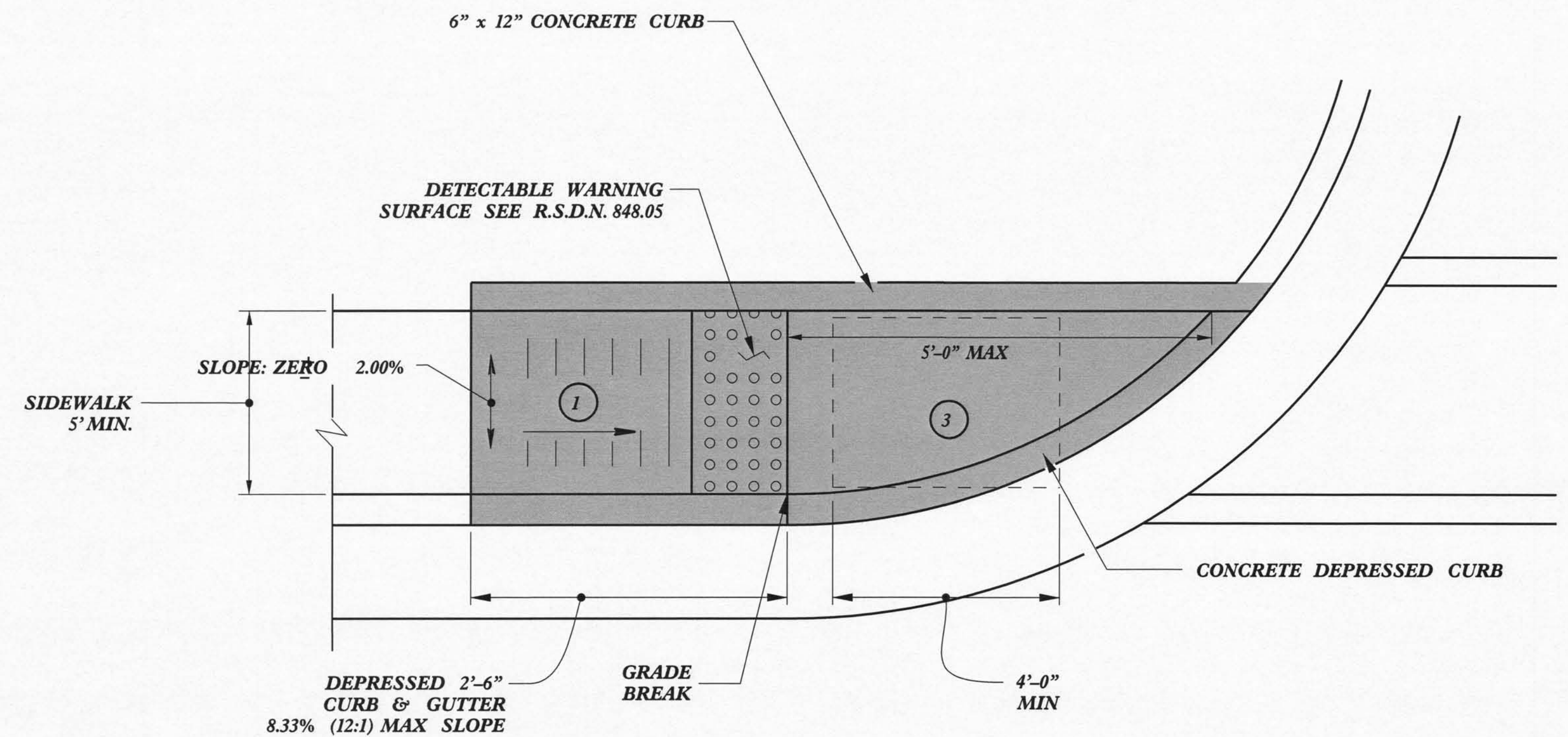
**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

08-MAR-2012 12:18 SA\S&B\Standard Drawings\Standard Drawings\12050803_Rev12.dwg 9-14-11_Scaled.dgn



 PAY LIMITS FOR CURB RAMP

TYPE 1A



TYPE 1

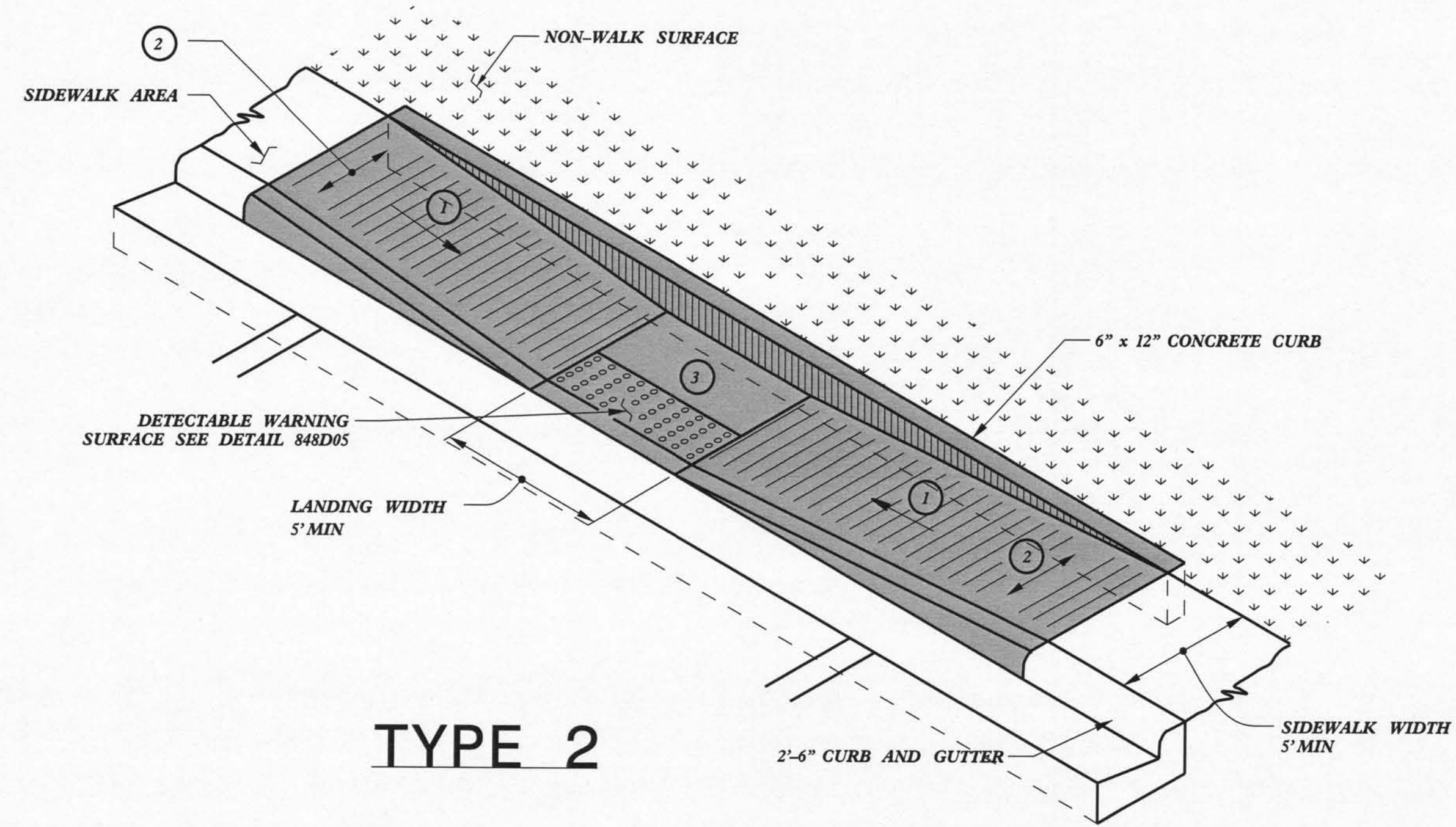
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS	
Directional Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

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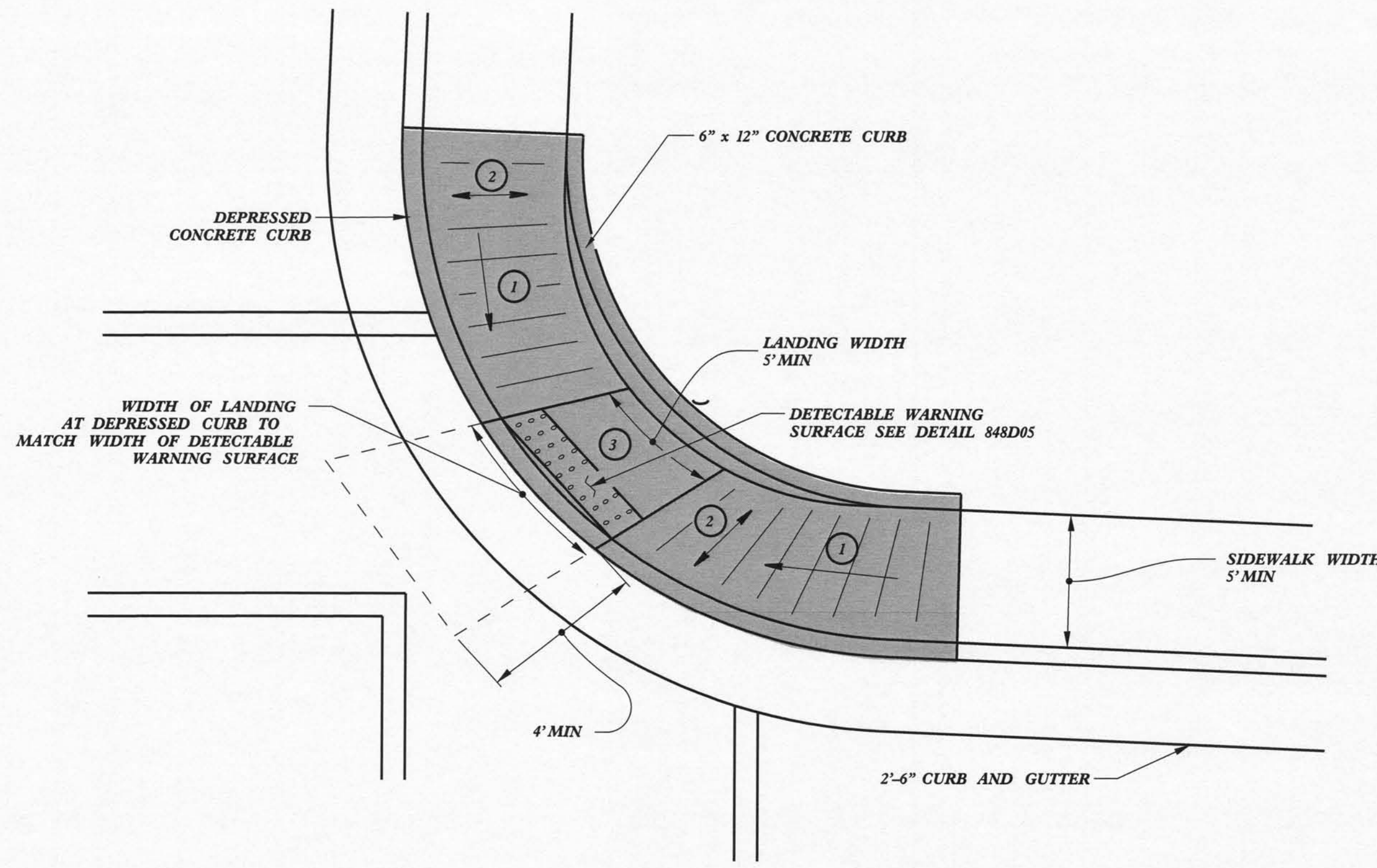
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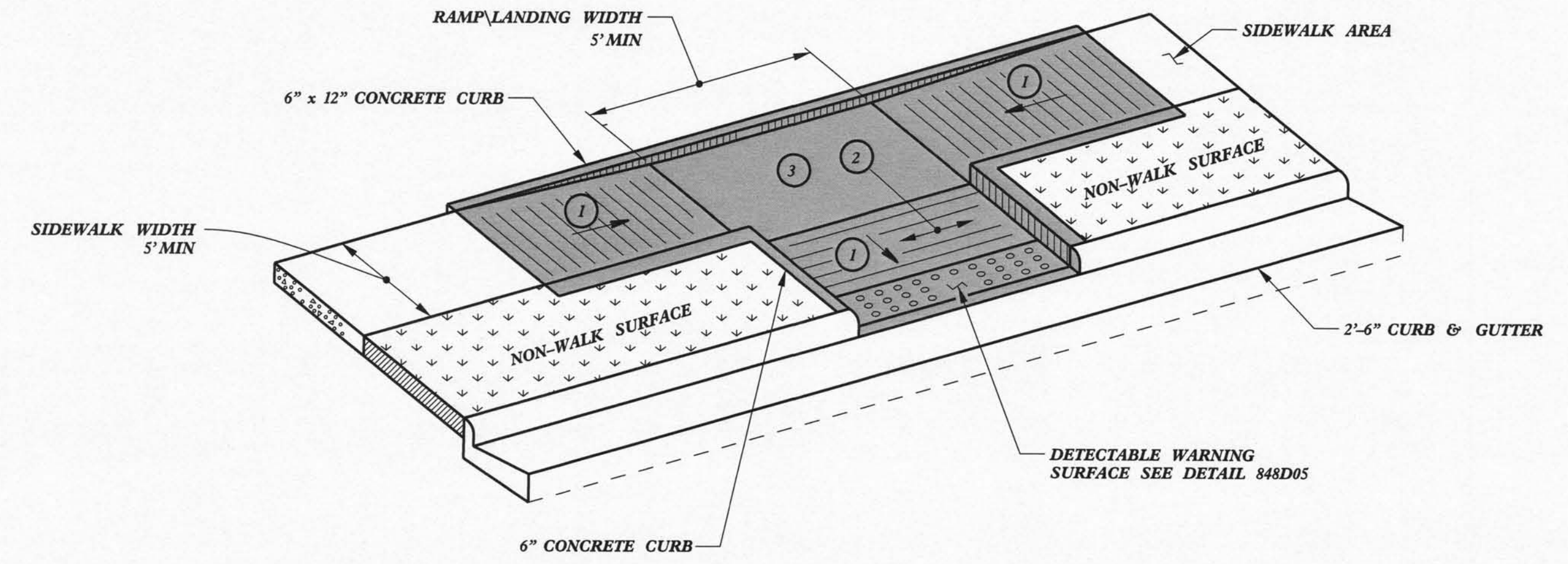
TYPE 2

PAY LIMITS FOR CURB RAMP

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE: 2.00%
- ③ CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



TYPE 2A



TYPE 3

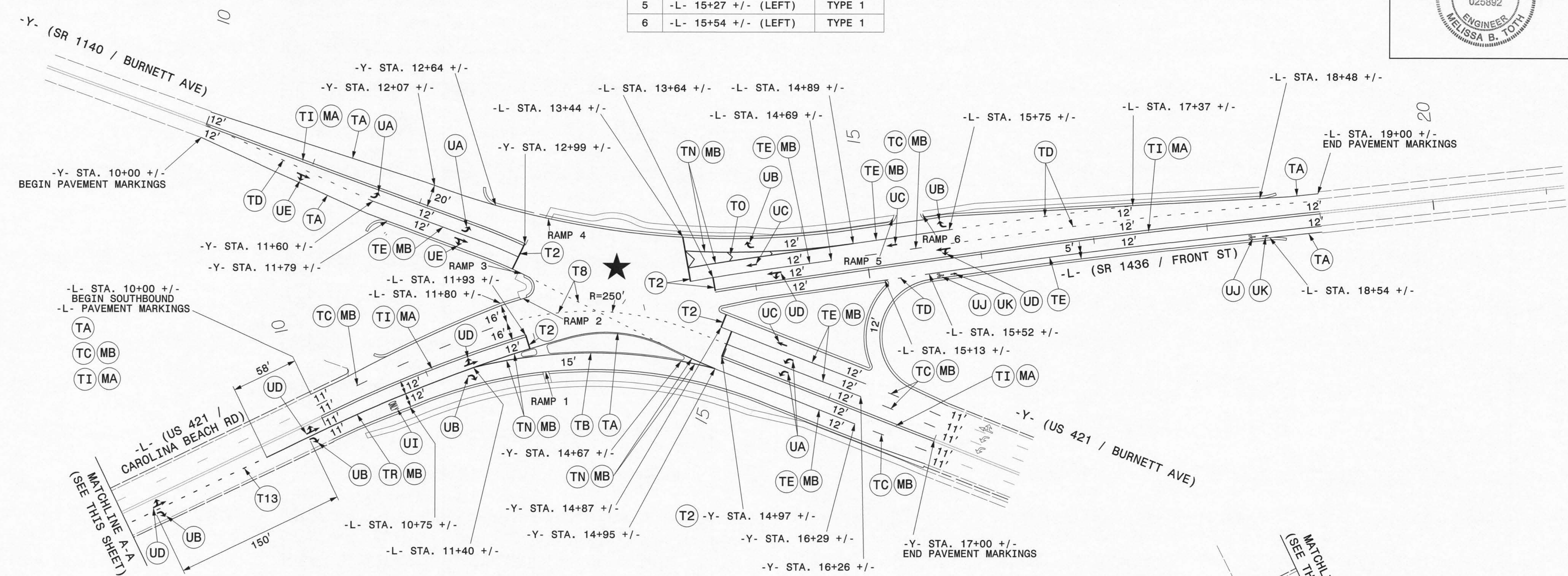
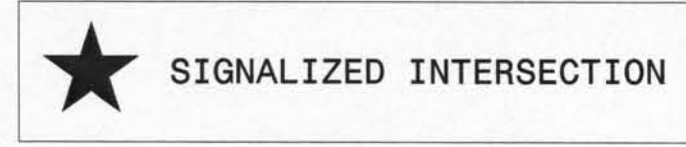
CONTRACT STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-6950 FAX 919-250-4119	
CURB RAMPS	
Parallel Ramps	
ORIGINAL BY: J.S. HOWERTON	DATE: 7/7/11
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn	

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

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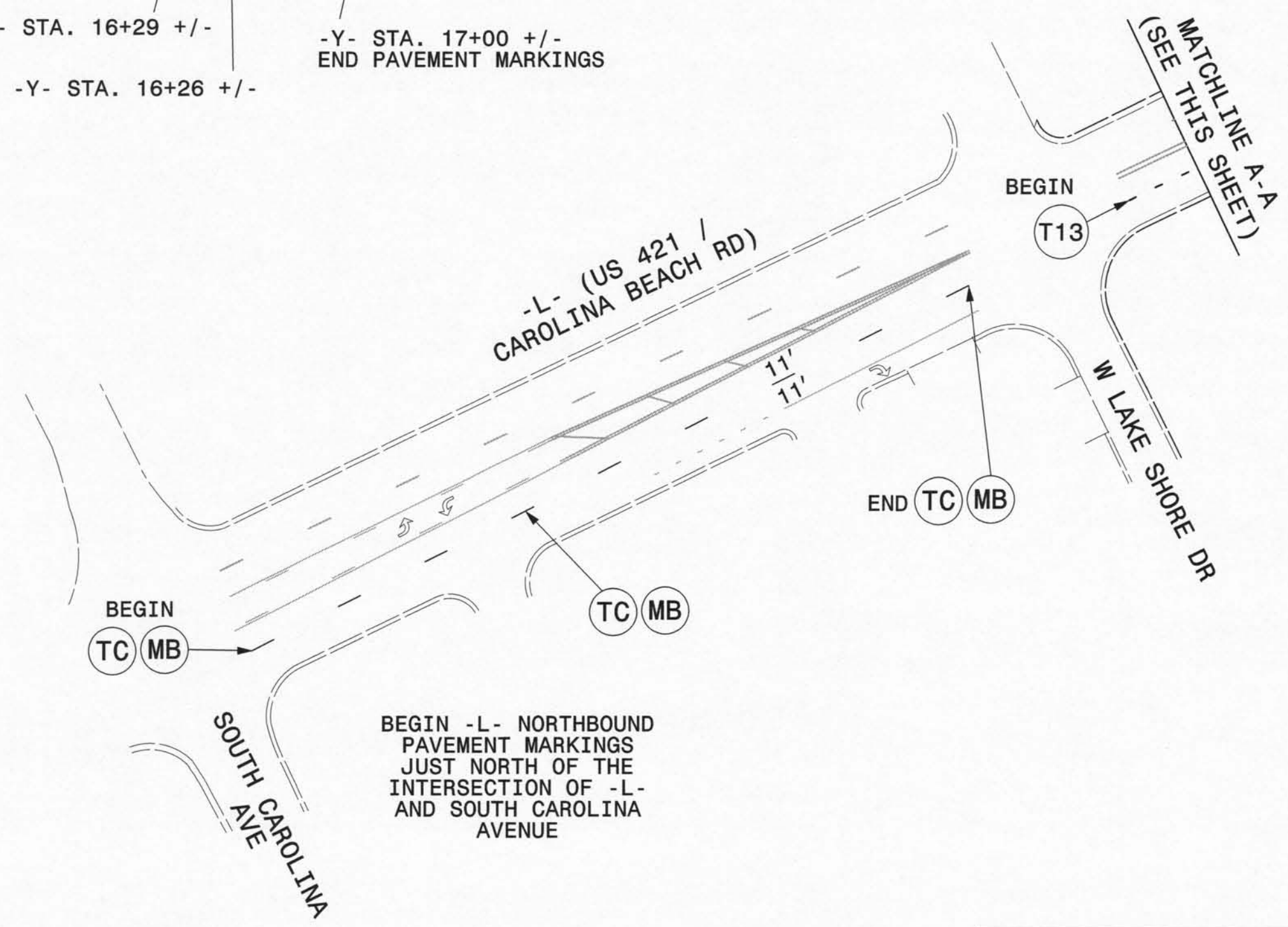
CURB RAMP LOCATIONS AND STYLES
(CENTERLINE OF RAMP AT FACE OF CURB)

1	-L- 12+01 +/- (RIGHT)	TYPE 3
2	-L- 12+01 +/- (LEFT)	TYPE 3
3	-Y- 13+08 +/- (RIGHT)	TYPE 3
4	-Y- 13+08 +/- (LEFT)	TYPE 3
5	-L- 15+27 +/- (LEFT)	TYPE 1
6	-L- 15+54 +/- (LEFT)	TYPE 1



PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	DESCRIPTION	DESCRIPTION
TA	WHITE EDGELINE	THERMOPLASTIC	(4", 90 MILS)
TB	YELLOW EDGELINE	THERMOPLASTIC	(4", 90 MILS)
TC	10 FT. WHITE SKIP	THERMOPLASTIC	(4", 120 MILS)
TD	3 FT. - 9 FT. WHITE MINISKIP	THERMOPLASTIC	(4", 120 MILS)
TE	WHITE SOLID LANE LINE	THERMOPLASTIC	(4", 120 MILS)
TI	YELLOW DOUBLE CENTERLINE	THERMOPLASTIC	(4", 120 MILS)
TN	WHITE GORE LINE	THERMOPLASTIC	(8", 90 MILS)
TO	WHITE DIAGONAL	THERMOPLASTIC	(8", 90 MILS)
TR	WHITE SOLID LANE LINE	THERMOPLASTIC	(8", 120 MILS)
T2	WHITE STOP BAR	THERMOPLASTIC	(24", 120 MILS)
T8	2 FT. - 6 FT. WHITE MINISKIP	THERMOPLASTIC	(4", 120 MILS)
T13	3 FT. - 9 FT. / SP WHITE MINISKIP	THERMOPLASTIC	(8", 120 MILS)
UA	LEFT TURN ARROW	THERMOPLASTIC	(90 MILS)
UB	RIGHT TURN ARROW	THERMOPLASTIC	(90 MILS)
UC	STRAIGHT ARROW	THERMOPLASTIC	(90 MILS)
UD	COMBO. STRAIGHT / LEFT ARROW	THERMOPLASTIC	(90 MILS)
UE	COMBO. STRAIGHT / RIGHT ARROW	THERMOPLASTIC	(90 MILS)
UI	ALPHANUMERIC PAVEMENT MARKING CHARACTER	THERMOPLASTIC	(120 MILS)
UJ	BICYCLE SYMBOL PAVEMENT MARKING SYMBOLS	THERMOPLASTIC	(90 MILS)
UK	BICYCLE STRAIGHT ARROW PAVEMENT MARKING SYMBOLS	THERMOPLASTIC	(90 MILS)
MA	YELLOW & YELLOW	PERMANENT RAISED PAVEMENT MARKERS	
MB	CRYSTAL & RED	PERMANENT RAISED PAVEMENT MARKERS	



PAVEMENT MARKING DETAIL
 -L- (US 421 & SR 1436)
 -Y- (US 421 & SR 1140)

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCBEES #F-0326

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