



MARICOPA COUNTY
Department of Transportation

MEMORANDUM

Date: May 4, 2011

To: MAG Specifications and Details Committee

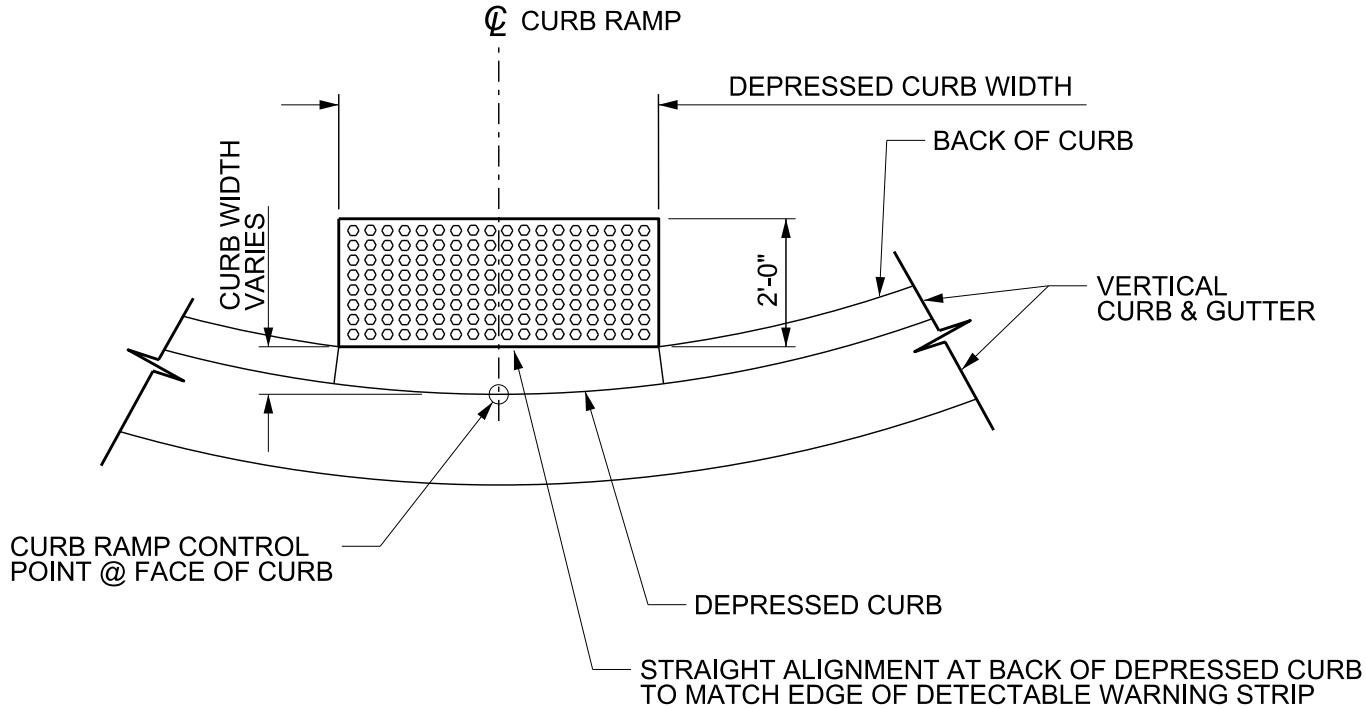
From: Robert Herz, MCDOT Representative

Subject: Curb Ramp Modification for Radial Installations

Case 11-10

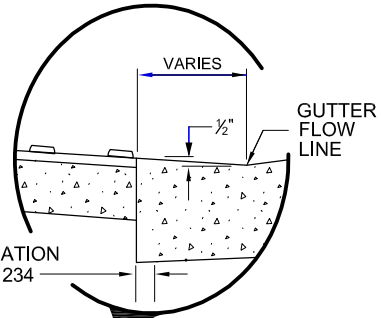
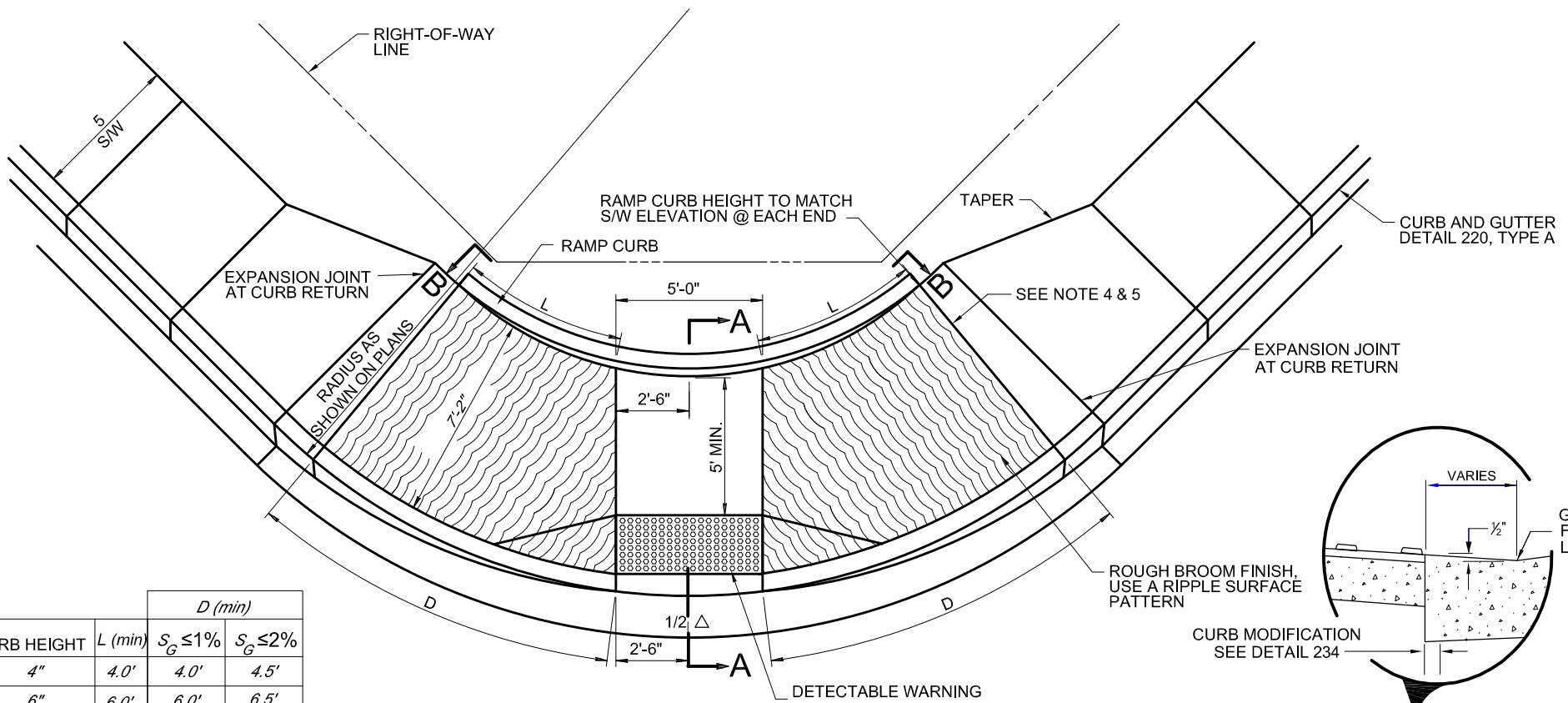
PURPOSE: Eliminate concrete spalling that may occur in the narrow circular segment between the back of curb and the detectable warnings for curb ramps installed within a curb return.

REVISION: Modify the back of curb to include the circular segment area between the back of curb and the detectable warnings. This proposed revision involves the creation of the attached new Detail 234 showing the curb modification and also revising Type A, B, and C Curb Ramps shown in Details 235-1, 235-2 and 235-3.



PLAN VIEW

DETAIL NO. 234	 MARICOPA ASSOCIATION of GOVERNMENTS STANDARD DETAIL ENGLISH	CURB MODIFICATION @ DETECTABLE WARNING	REVISED	DETAIL NO. 234
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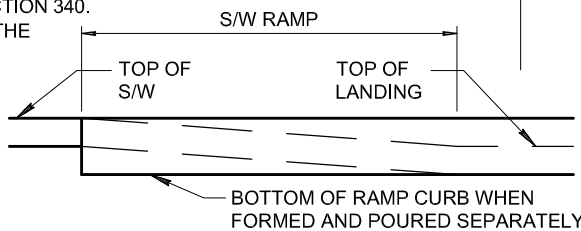


CURB HEIGHT	L (min)	D (min)	
		$S_G \leq 1\%$	$S_G \leq 2\%$
4"	4.0'	4.0'	4.5'
6"	6.0'	6.0'	6.5'
7"	7.0'	6.5'	7.5'

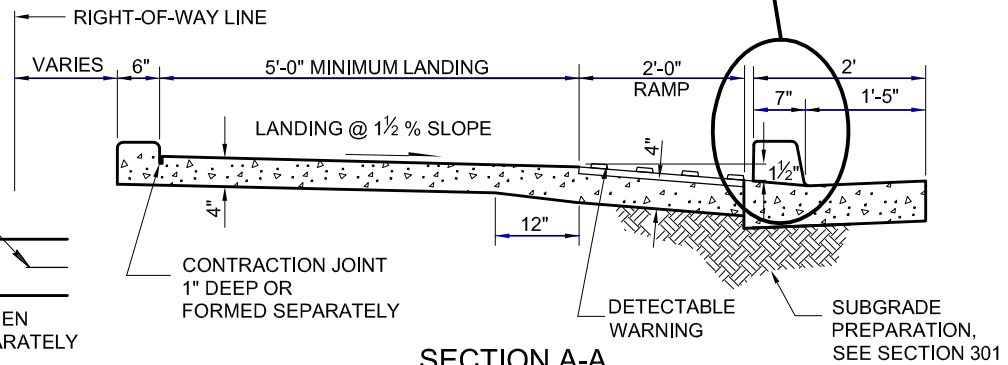
S_G = MAXIMUM GUTTER SLOPE WITHIN RAMP LIMITS

NOTES:

1. CLASS 'B' CONCRETE PER SECTION 725.
2. EXPANSION JOINTS SHALL CONFORM TO SECTION 340.
3. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
4. INCREASE 'L' OR 'D' AS NEEDED TO HAVE THE TOP OF RAMP FORM A RADIAL LINE.
5. WHEN TOP OF RAMP IS LESS THAN 4' FROM CURB RETURN, EXTEND RAMP TO THE CURB RETURN.
6. DETAIL IS ADA COMPLIANT FOR $S_G \leq 2\%$.



SECTION B-B



TYPE 'B'

SECTION A-A

DETAIL NO.
235-2

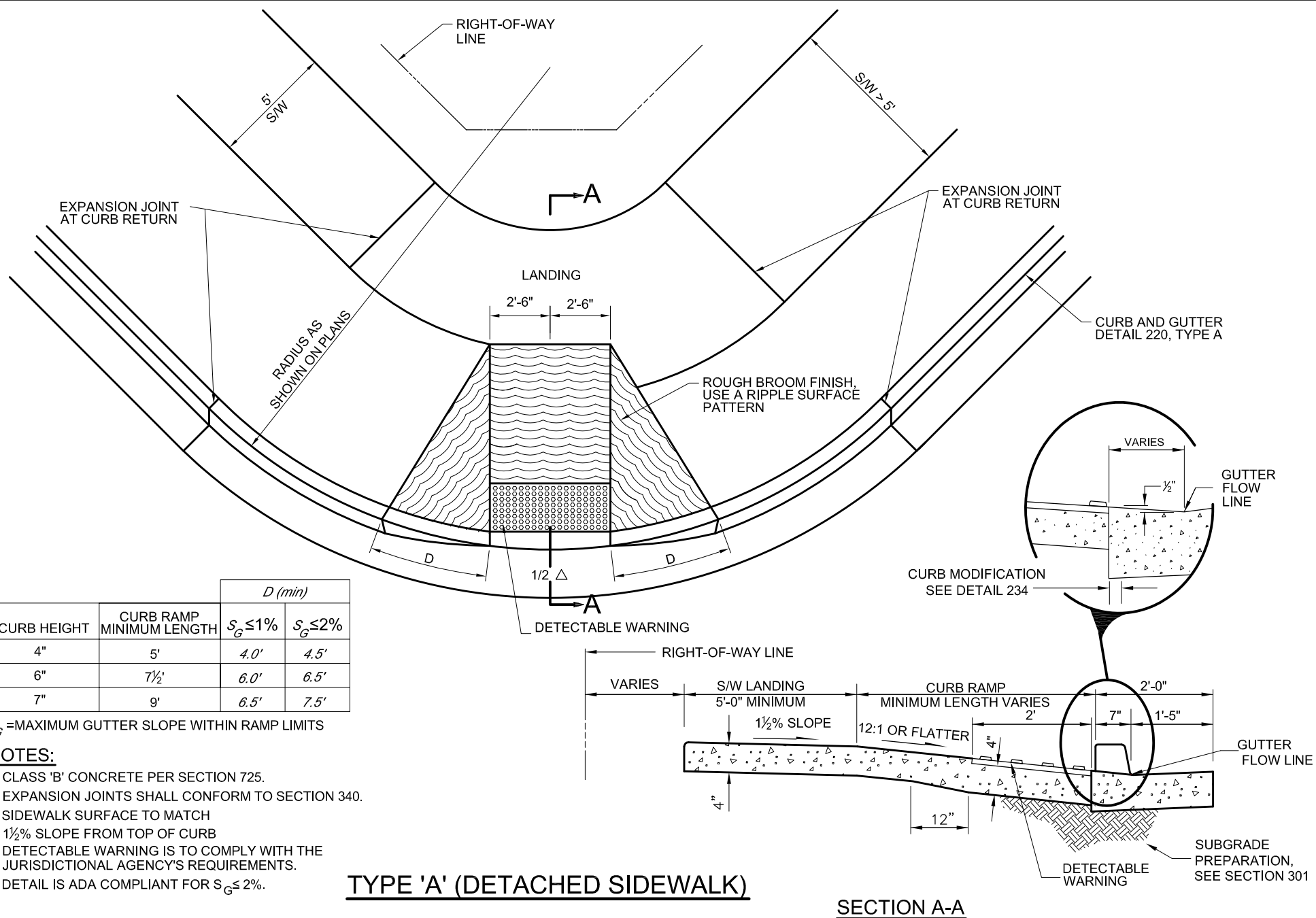


STANDARD DETAIL
ENGLISH

CURB RAMPS

REVISED
01-01-2012

DETAIL NO.
235-2



CURB HEIGHT	CURB RAMP MINIMUM LENGTH	<i>D (min)</i>	
		$S_G \leq 1\%$	$S_G \leq 2\%$
4"	5'	4.0'	4.5'
6"	7½'	6.0'	6.5'
7"	9'	6.5'	7.5'

S_G = MAXIMUM GUTTER SLOPE WITHIN RAMP LIMITS

NOTES:

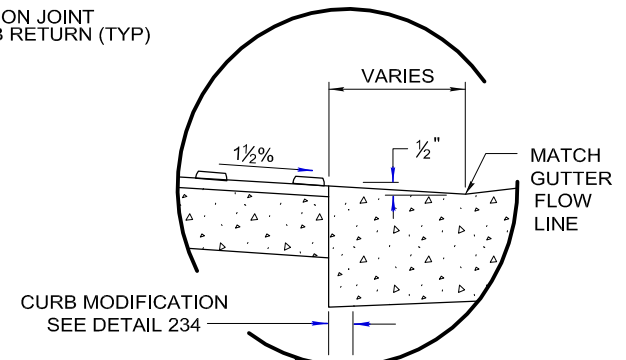
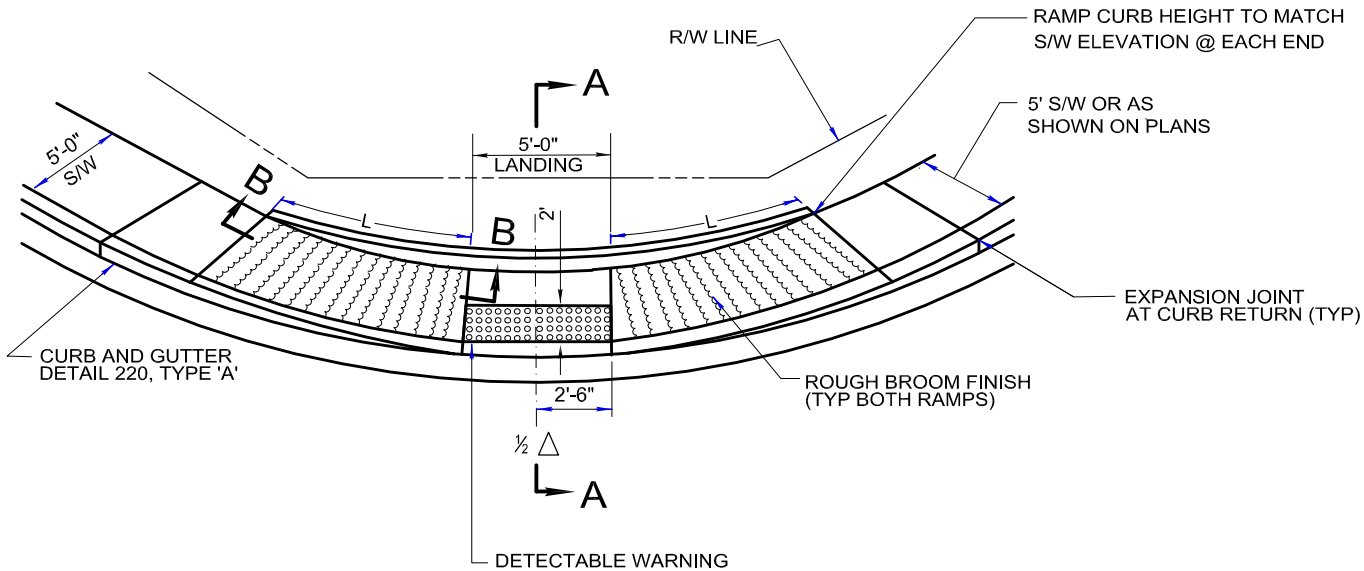
1. CLASS 'B' CONCRETE PER SECTION 725.
2. EXPANSION JOINTS SHALL CONFORM TO SECTION 340.
3. SIDEWALK SURFACE TO MATCH
1½% SLOPE FROM TOP OF CURB
4. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENTS.
5. DETAIL IS ADA COMPLIANT FOR $S_G \leq 2\%$.

TYPE 'A' (DETACHED SIDEWALK)

SECTION A-A

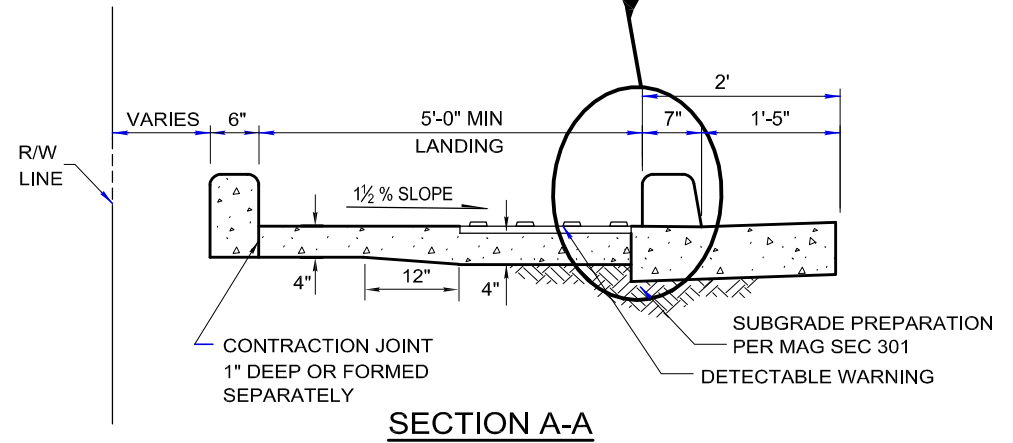
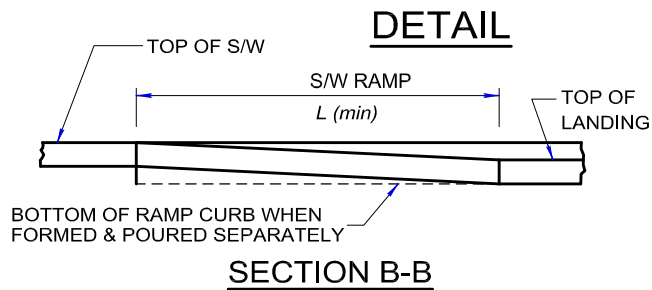
NOTES:

1. CLASS 'B' CONCRETE CONSTRUCTION PER SECTION 725.
2. DETECTABLE WARNING IS TO COMPLY WITH THE JURISDICTIONAL AGENCY'S REQUIREMENT.
3. RAMP LONGITUDINAL SLOPE SHALL BE 12:1 OR FLATTER.
4. RAMP CROSS SLOPE SHALL BE 1½%.
5. DETAIL IS ADA COMPLIANT FOR CURB RADII ≥ 20' AND GUTTER SLOPE ≤ 2.0%.



CURB HEIGHT	<i>L (min)</i>	
	$S_G \leq 1\%$	$S_G \leq 2\%$
4"	5.0'	6.0'
6"	7.0'	8.5'

S_G = MAXIMUM GUTTER SLOPE WITHIN RAMP LIMITS



TYPE 'C'