

---

## ORIGINATION FORM

---

### Proposed Revisions to a Standard Plans Index (Please provide all information — Incomplete forms will be returned)

**Contact Information:**

Date: May 18, 2020

Originator: Brad Bradley

Phone: (850) 414-4295

Email: brad.bradley@dot.state.fl.us

**Standard Plans:**

Index Number: 522-002

Sheet Number (s): 1, 2, 7

Index Title: Detectable Warnings and Sidewalk Curbramps

**Summary of the changes:**

Sheet 1: Deleted General Notes #5: Detectable Warnings - Acceptance Criteria.

Sheet 2: Added Landing to isometric views

Sheet 7: Added New Detail "Curb Ramp Outside Radial Return"

**Commentary / Background:**

As long as the requirements of ADA STF 705 are a condition of being on the APL, there's no need for Note #5 in the SP. Note #5E is covered by the ADA standards and by the phrase, "securely installed even with the substrate" in our updated spec – meaning, there's no abrupt change in level at the edge of the dome mat.

**Other Affected Offices / Documents:** (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Basis of Estimates Manual –
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Standard Specifications – 527, updated by K. Byram
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Approved Product List – K. Byram
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Construction –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance –

**Origination Package Includes:**

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

**Implementation:**

- Design Bulletin (Interim)
- DCE Memo
- Program Mgmt. Bulletin
- FY-Standard Plans (Next Release)

---

Contact the Roadway Design Office for assistance in completing this form

---

**GENERAL NOTES:**

1. Cross Slopes and Grades:

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

2. Curb, Curb and Gutter and/or Sidewalk:

- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.

3. Curb Ramp Alpha-Identification:

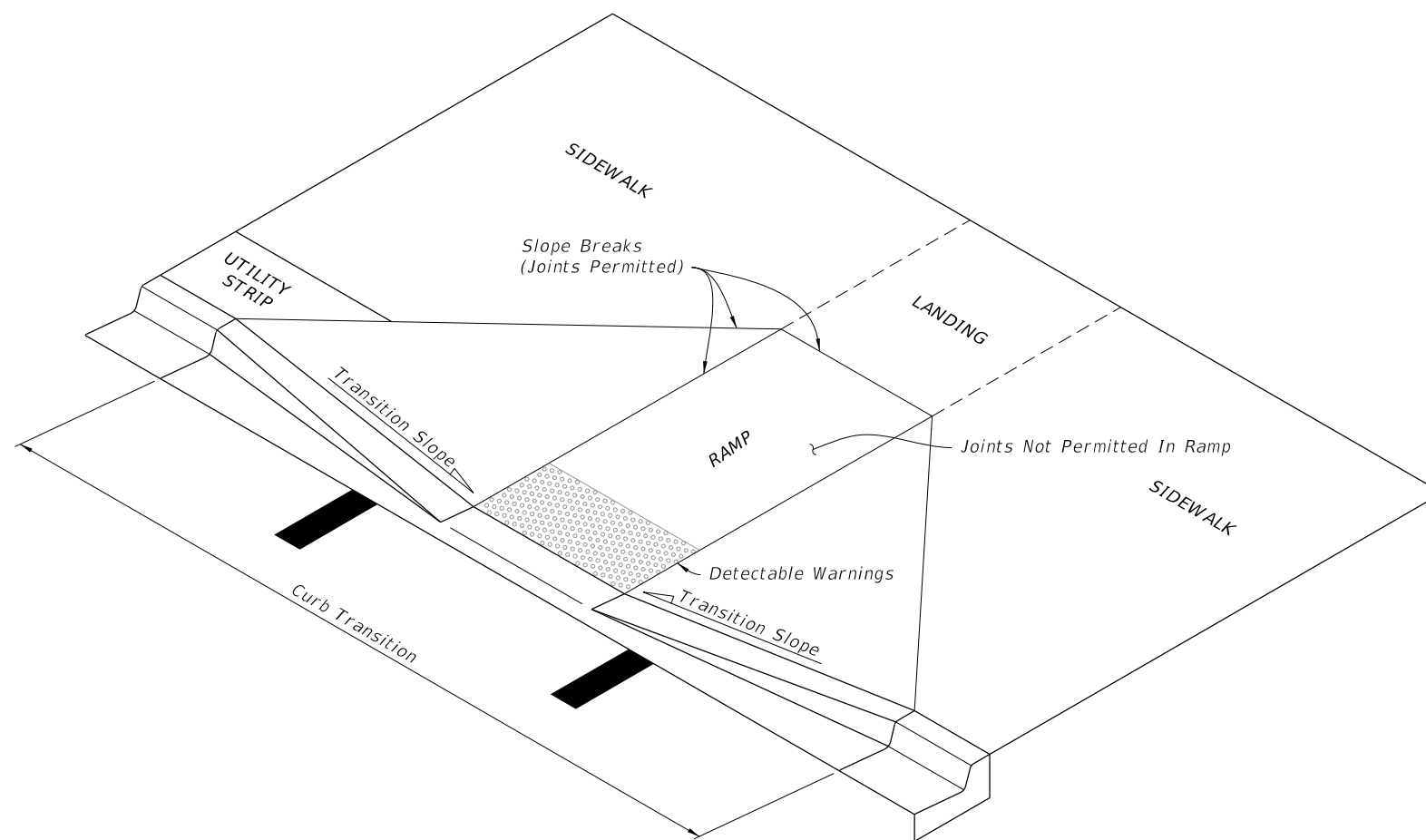
- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.

4. Detectable Warnings:

- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.

5. Detectable Warnings - Acceptance Criteria:


- A. Color and texture shall be complete and uniform.
- B. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
- C. There shall be no more than 4 non-compliant domes in any one square foot.
- D. Non-compliant domes shall not be adjacent to other non-compliant domes.
- E. Surfaces shall not deviate more than 0.10" from a true plane.

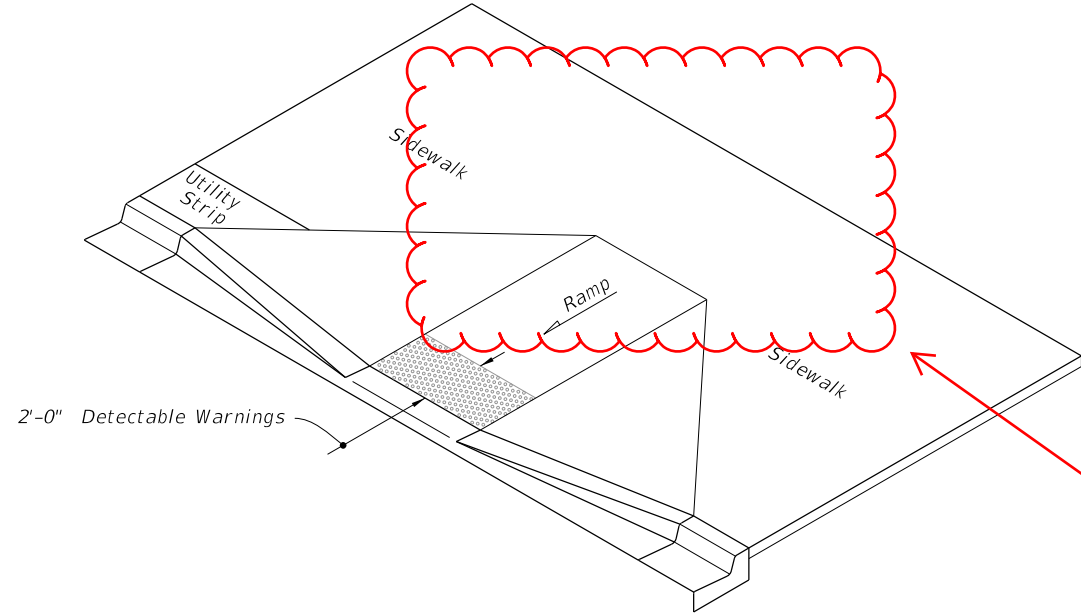


=====**CURB RAMP NOMENCLATURE**=====

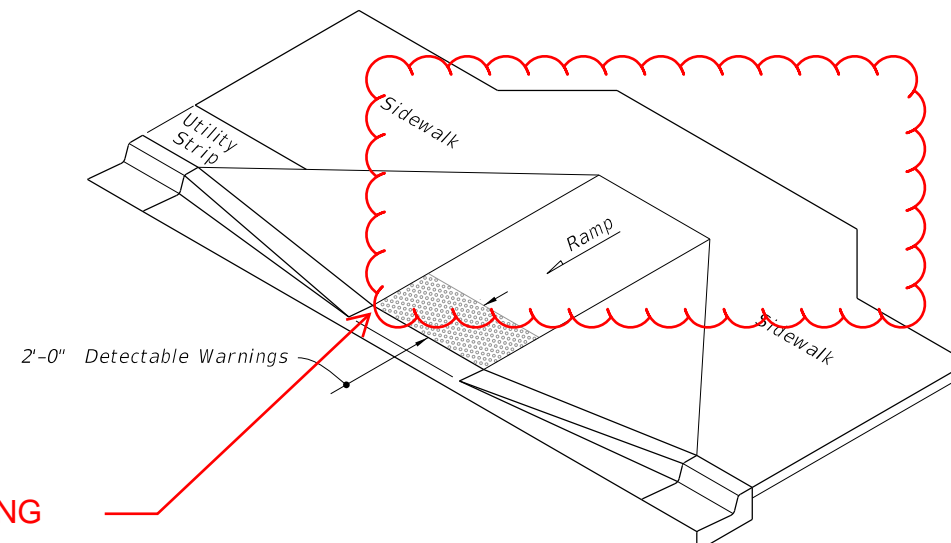
5/12/2020 1:18:23 PM

11/01/20

LAST REVISION 11/01/19	REVISION	DESCRIPTION:	 <b>FY 2021-22 STANDARD PLANS</b>	<b>DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS</b>	INDEX <b>522-002</b>	SHEET <b>1 of 7</b>
---------------------------	----------	--------------	---	--	-------------------------	------------------------

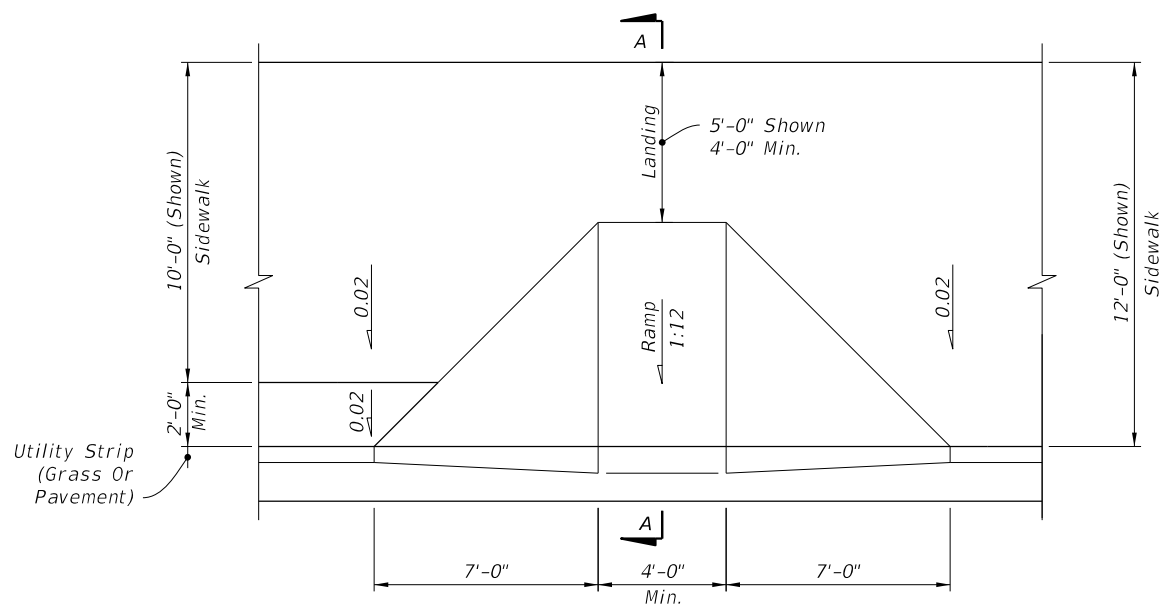


ISOMETRIC VIEW

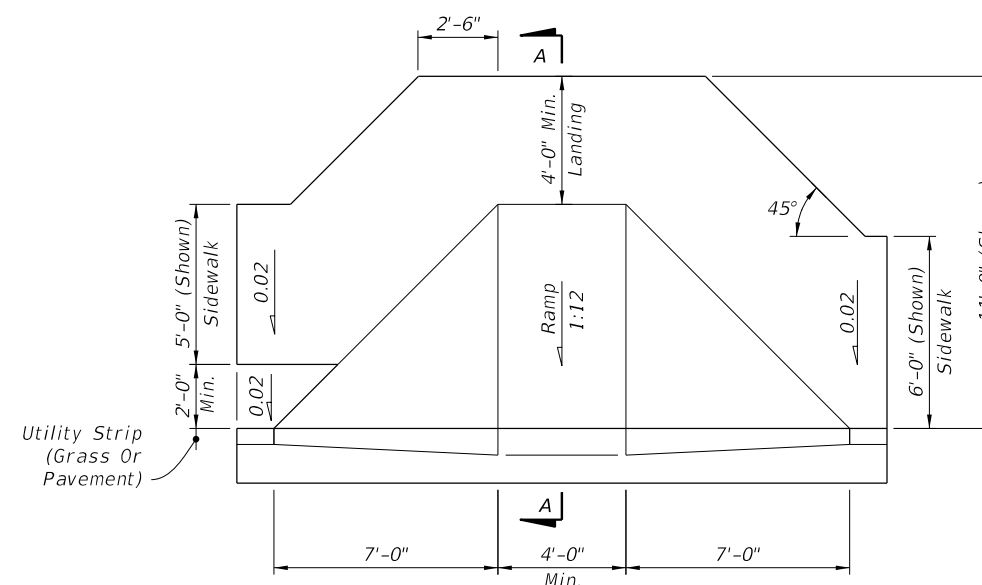


ISOMETRIC VIEW

ADDED LANDING



PLAN VIEW

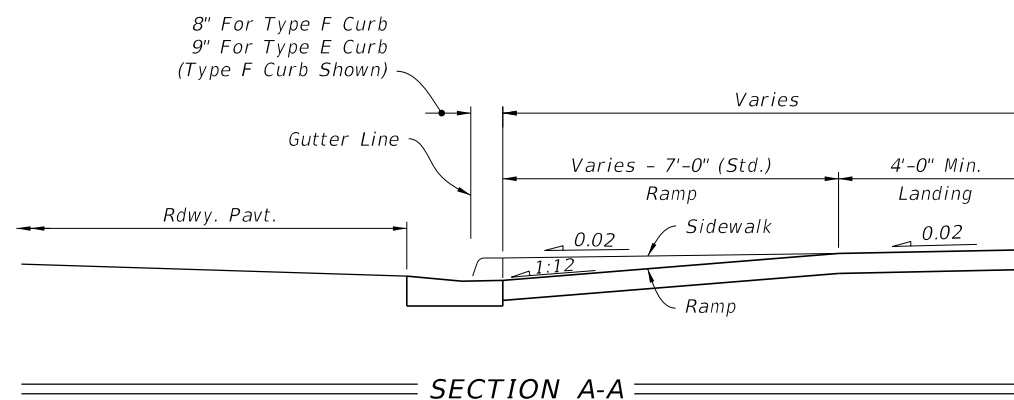


PLAN VIEW

NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A

CR-B



SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

7/20/2020 2:09:58 PM

LAST REVISION	DESCRIPTION:
11/01/18	
REVISION	

11/01/20



FY 2020-21  
STANDARD PLANS

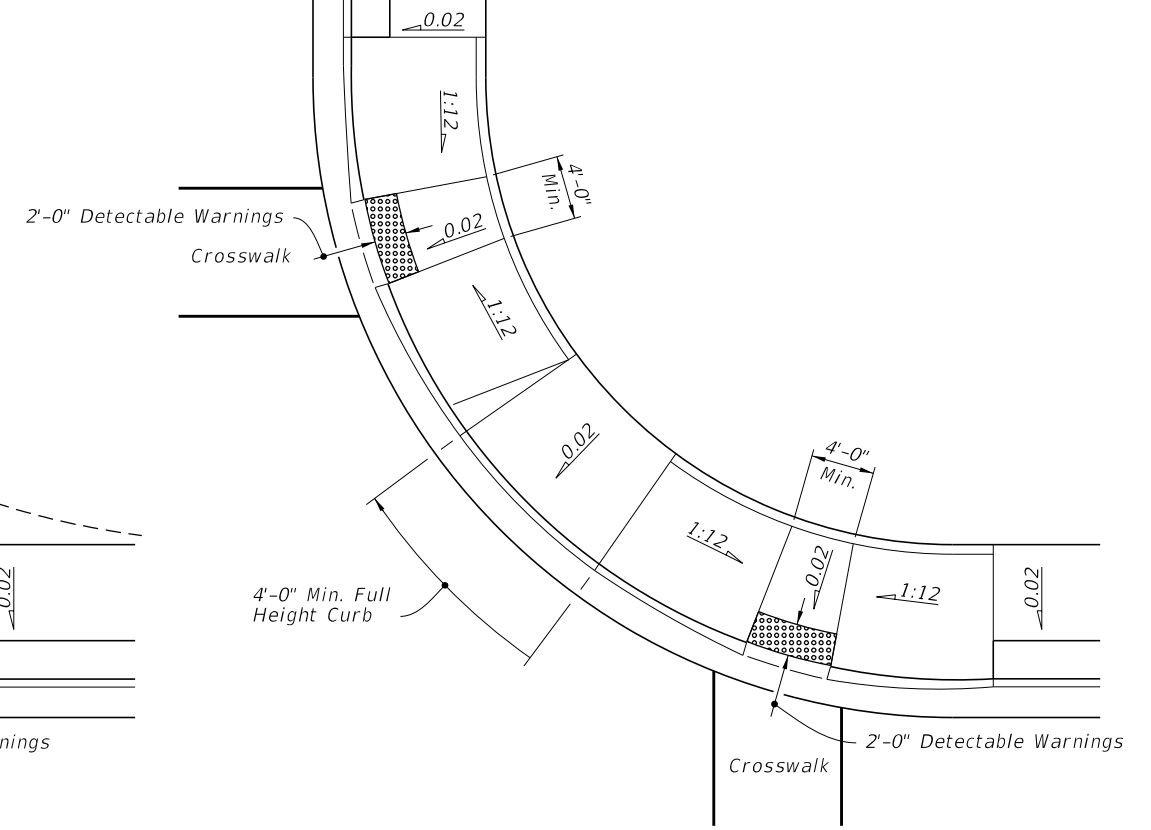
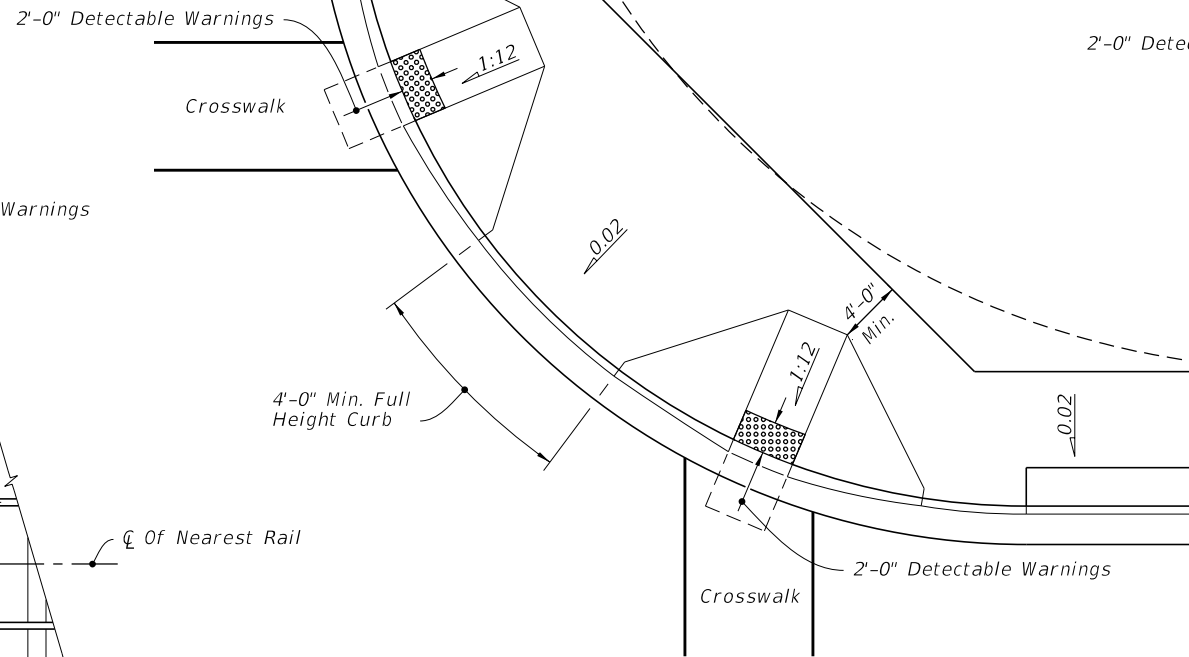
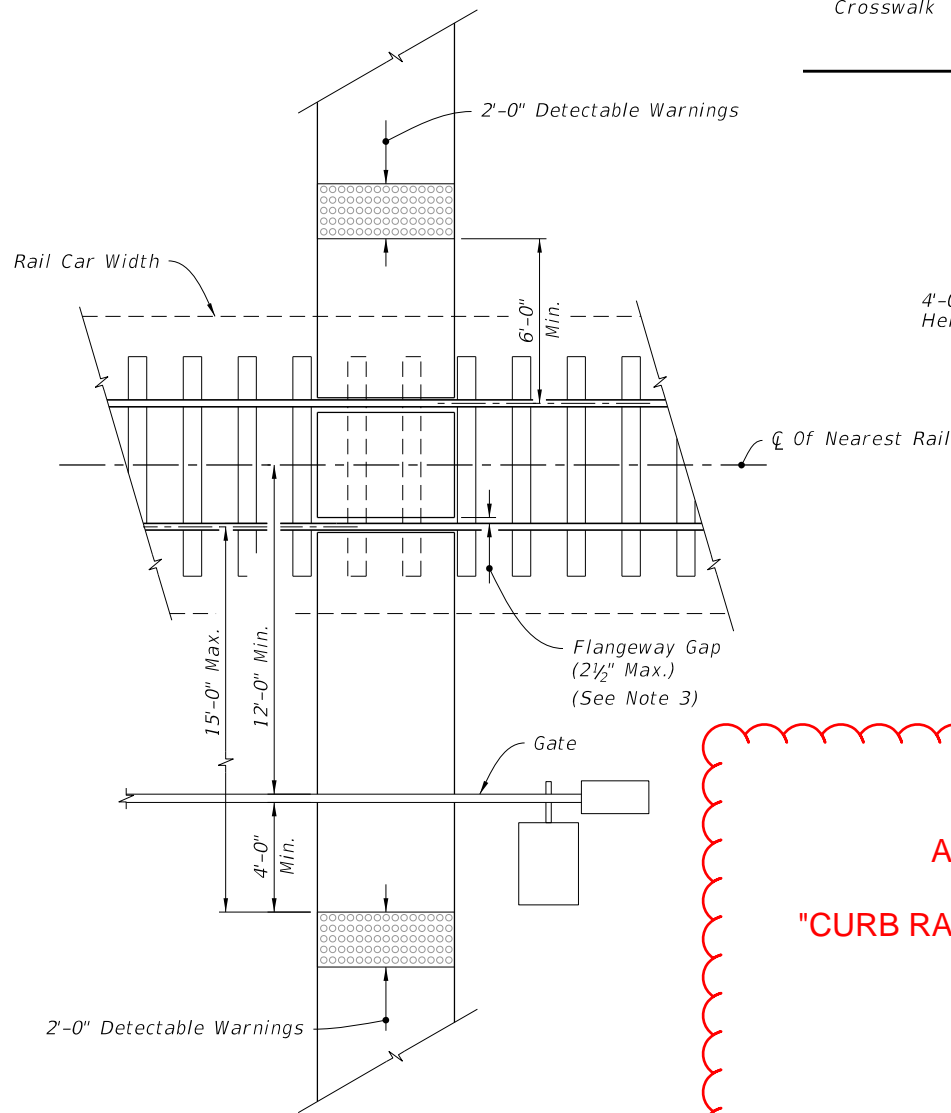
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

SHEET  
2 of 7

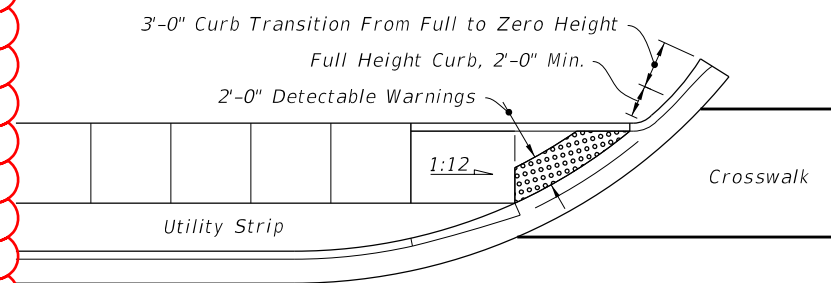
**NOTES:**

1. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
2. Crosswalk widths and configurations vary; must conform to Index 711-001.
3. Flangeway Gap may be up to 3" for Freight-only Railways.



**RADIAL SIDEWALK RAMPS**

**ADDED NEW DETAIL**  
**"CURB RAMP OUTSIDE RADIAL RETURN"**



**LINEAR SIDEWALK RAMPS**

RAILROAD CROSSING

PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS (TYP.)

**RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS**

7/20/2020 2:10:15 PM

LAST REVISION	DESCRIPTION:
11/01/17	
11/01/20	



FY 2020-21  
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

SHEET  
7 of 7

**GENERAL NOTES:**

1. Cross Slopes and Grades:

- A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
- B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
- C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
- D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

2. Curb, Curb and Gutter and/or Sidewalk:

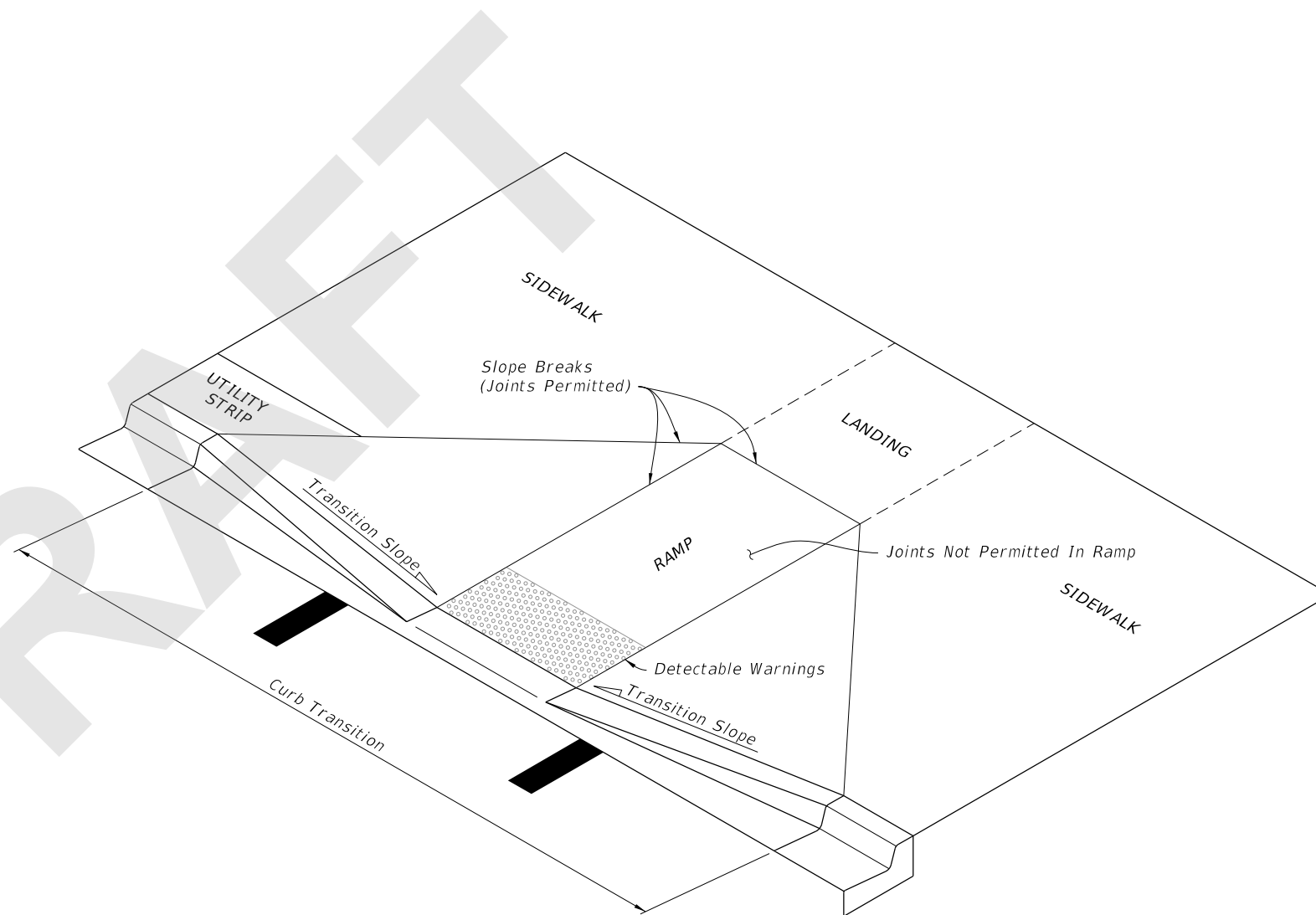
- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.

3. Curb Ramp Alpha-Identification:

- A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
- B. Alpha-identifications CR-I and CR-J are intentionally omitted.


4. Detectable Warnings:

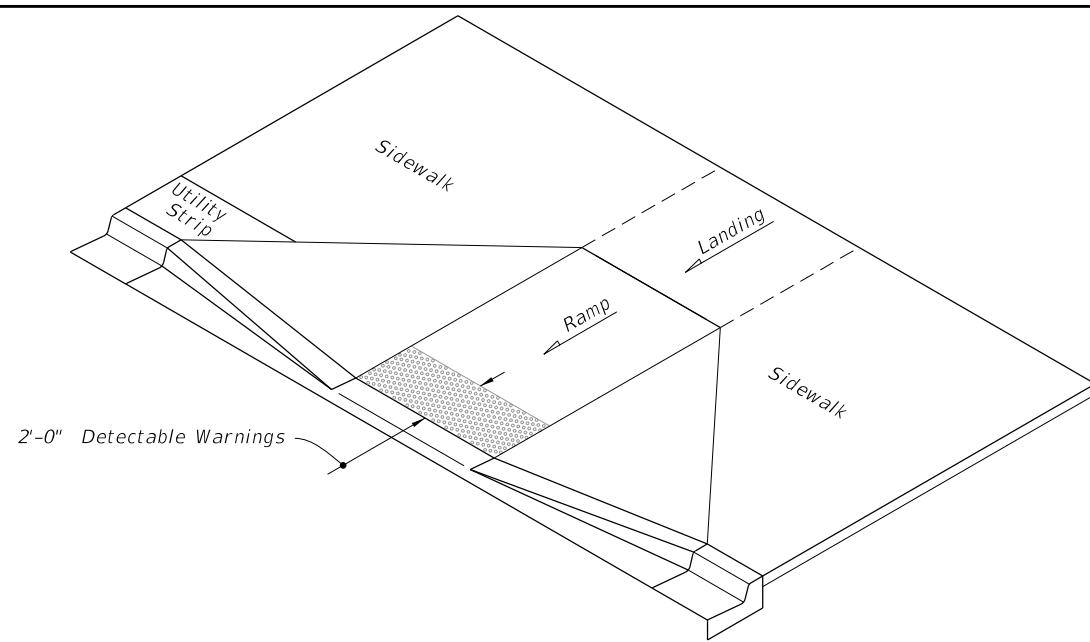
- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



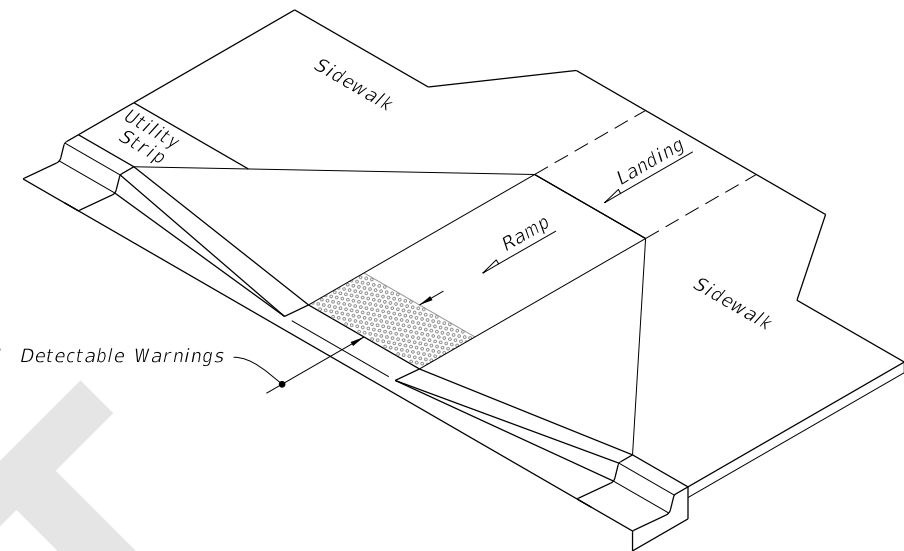
==== CURB RAMP NOMENCLATURE =====

8/7/2020 10:03:55 AM

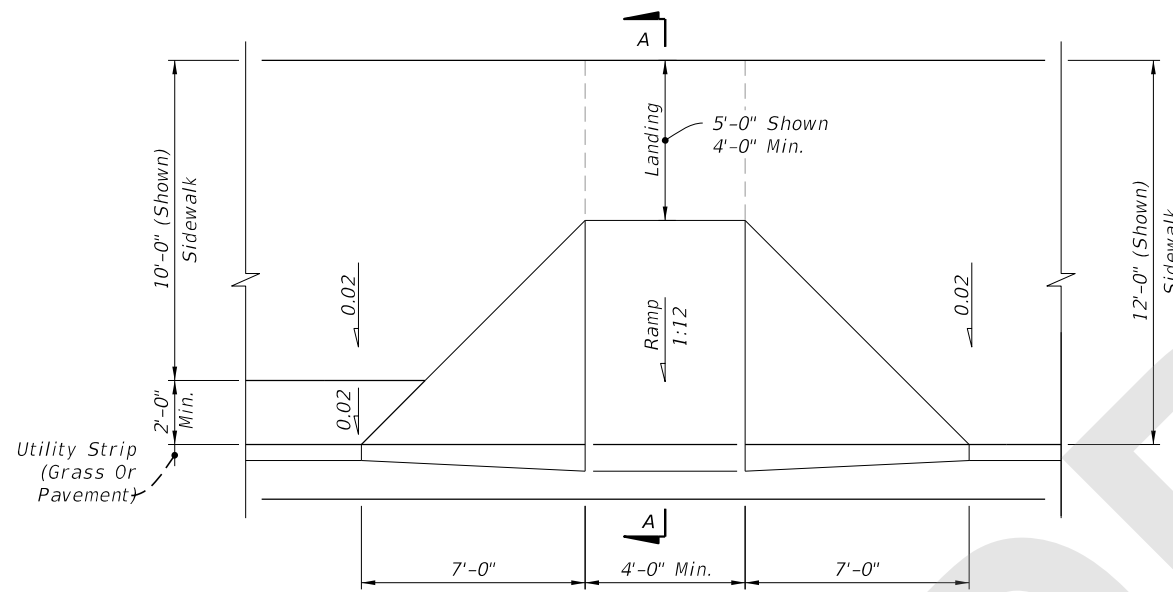
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7
------------------------------	----------	--------------	---	---	------------------	-----------------



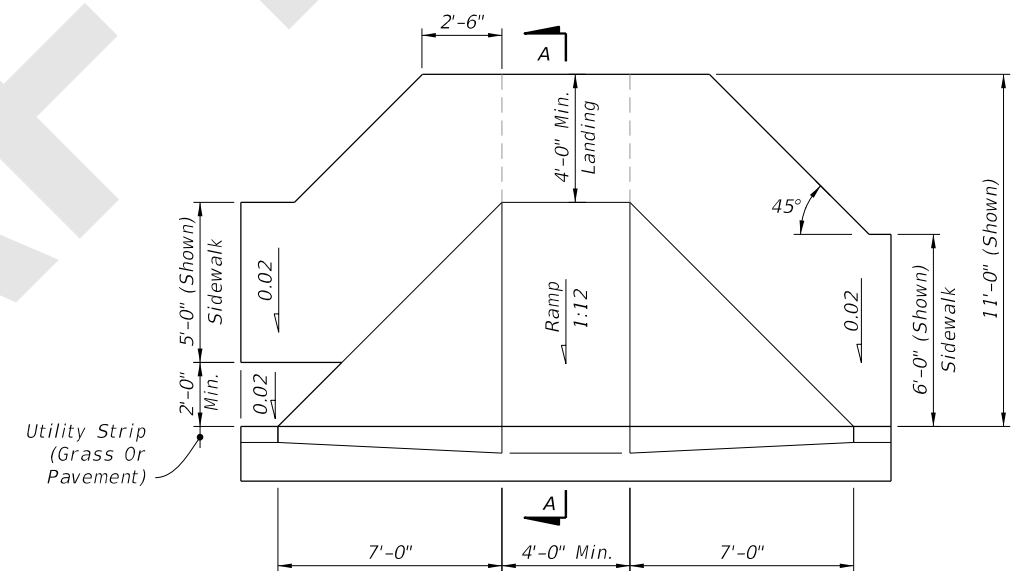
ISOMETRIC VIEW



ISOMETRIC VIEW



PLAN VIEW



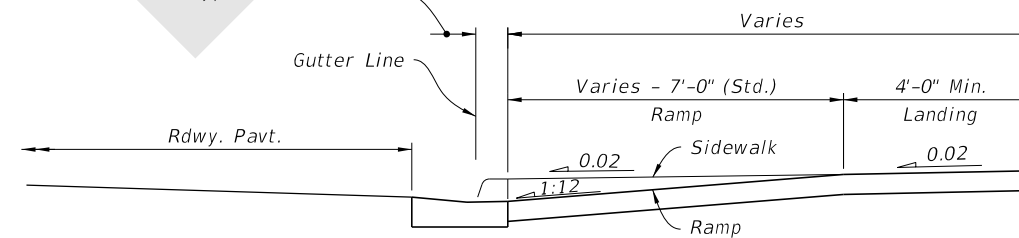
PLAN VIEW

NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A

CR-B

8" For Type F Curb  
9" For Type E Curb  
(Type F Curb Shown)



SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

8/7/2020 10:03:57 AM

LAST REVISION 11/01/20	DESCRIPTION:
---------------------------	--------------



FY 2021-22  
STANDARD PLANS

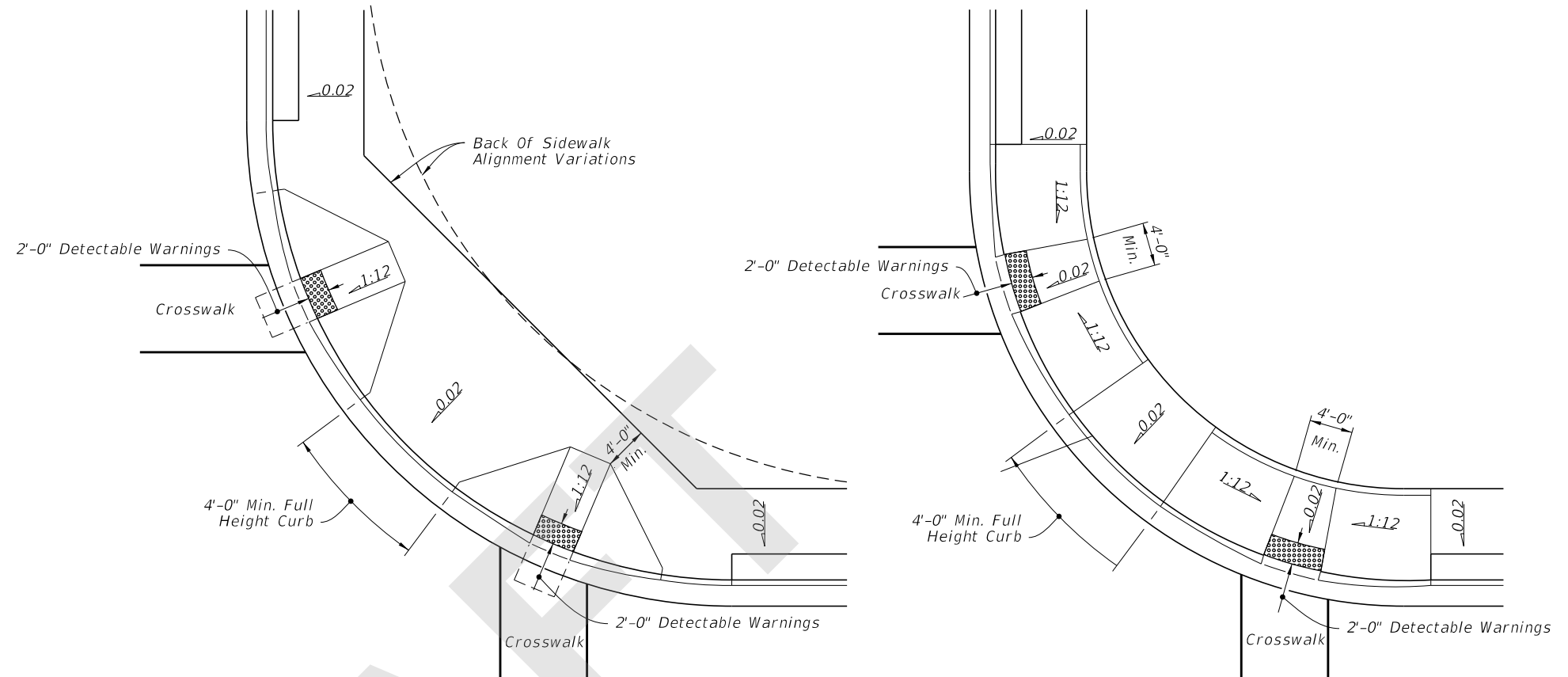
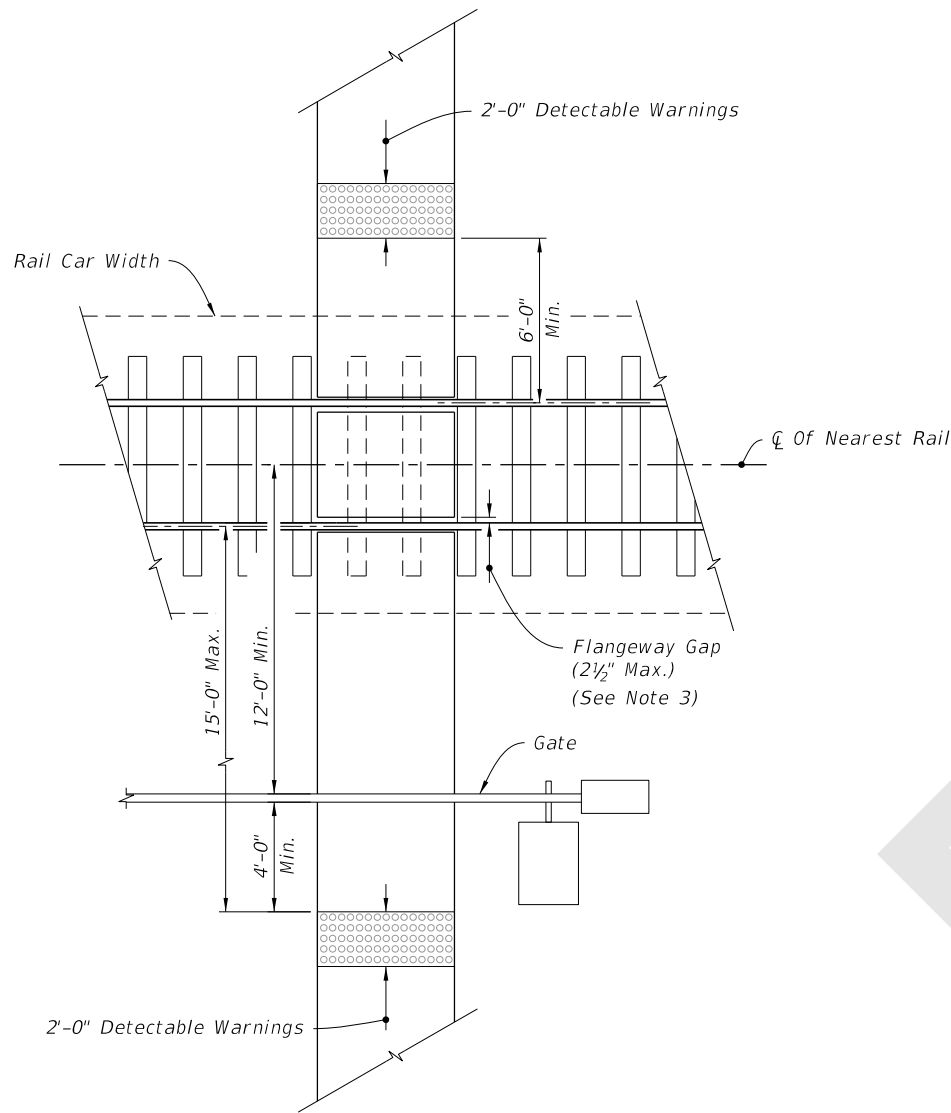
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

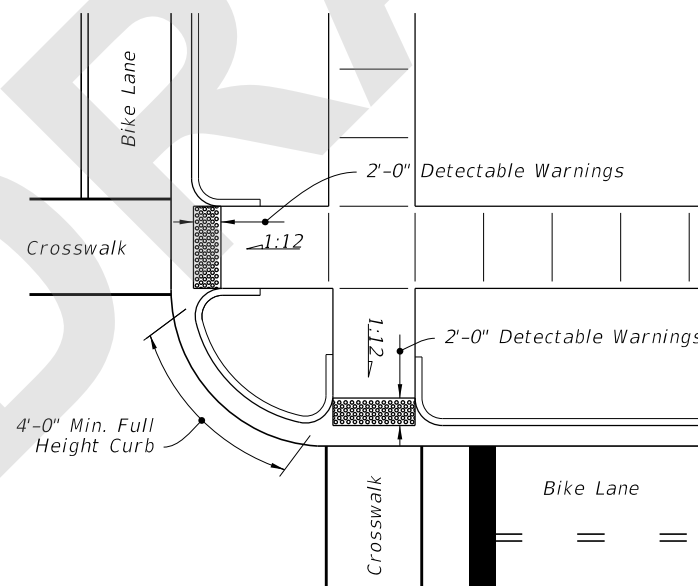
SHEET  
2 of 7

**NOTES:**

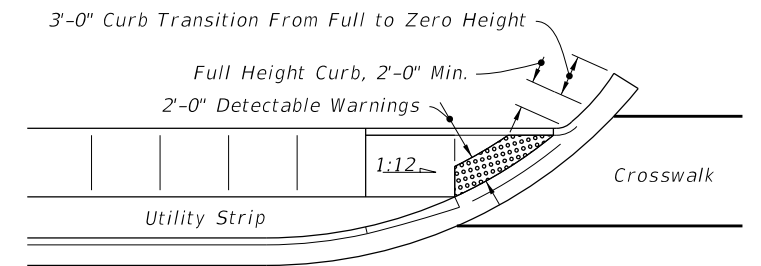
1. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
2. Crosswalk widths and configurations vary; must conform to Index 711-001.
3. Flangeway Gap may be up to 3" for Freight-only Railways.



**CURB RAMPS WITHIN RADIAL RETURN**



**CURB RAMPS OUTSIDE RADIAL RETURN**



**LINEAR SIDEWALK RAMPS**

RAILROAD CROSSING

PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS (TYP.)

**RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS**

8/7/2020 10:04:01 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 7 of 7
---------------------------	----------	--------------	--	------------------------------	---	------------------	-----------------