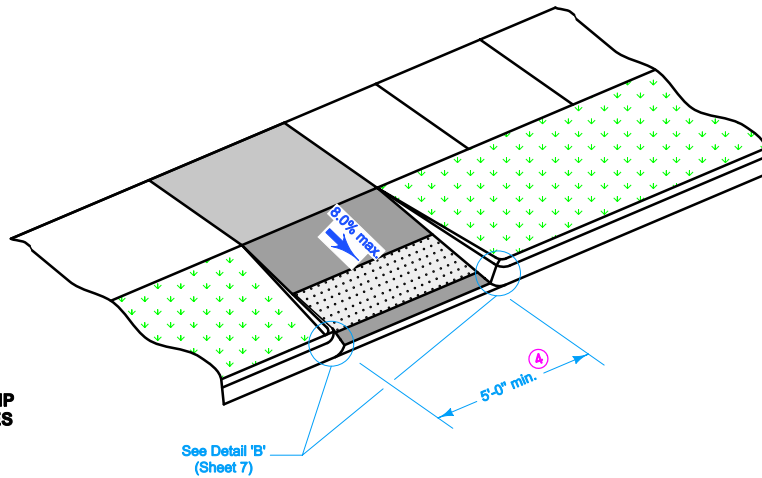
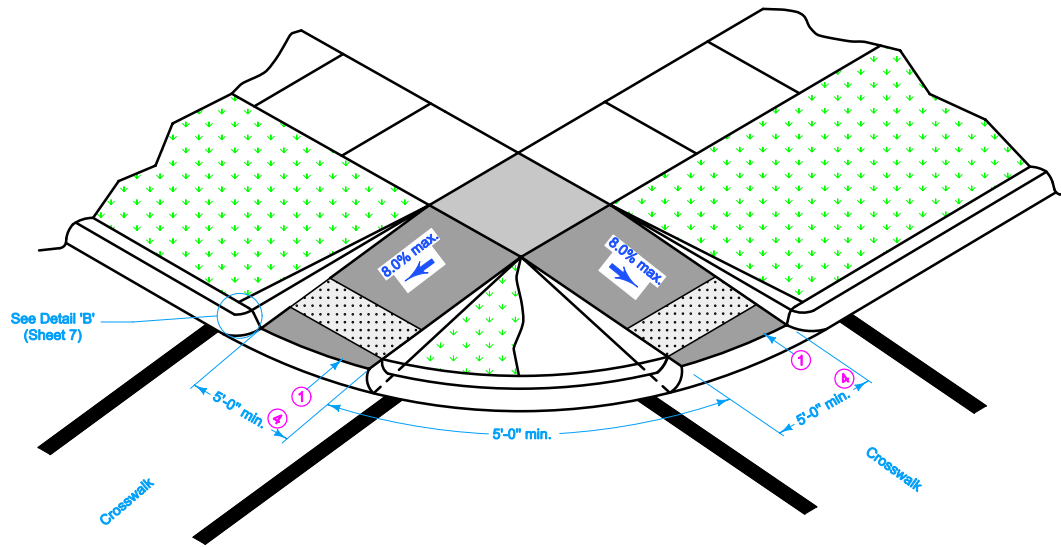


**TYPE 1-R  
PERPENDICULAR RAMP  
WITH RETURNED SIDES**



See Detail 'B'  
(Sheet 7)



**TYPICAL APPLICATION  
OF TYPE 1-R RAMPS  
AT A CORNER**

LEGEND	
	Curb Ramp ②
	Landing Area ③
	Detectable Warnings
	Vegetation

Install ramps perpendicular to radius.

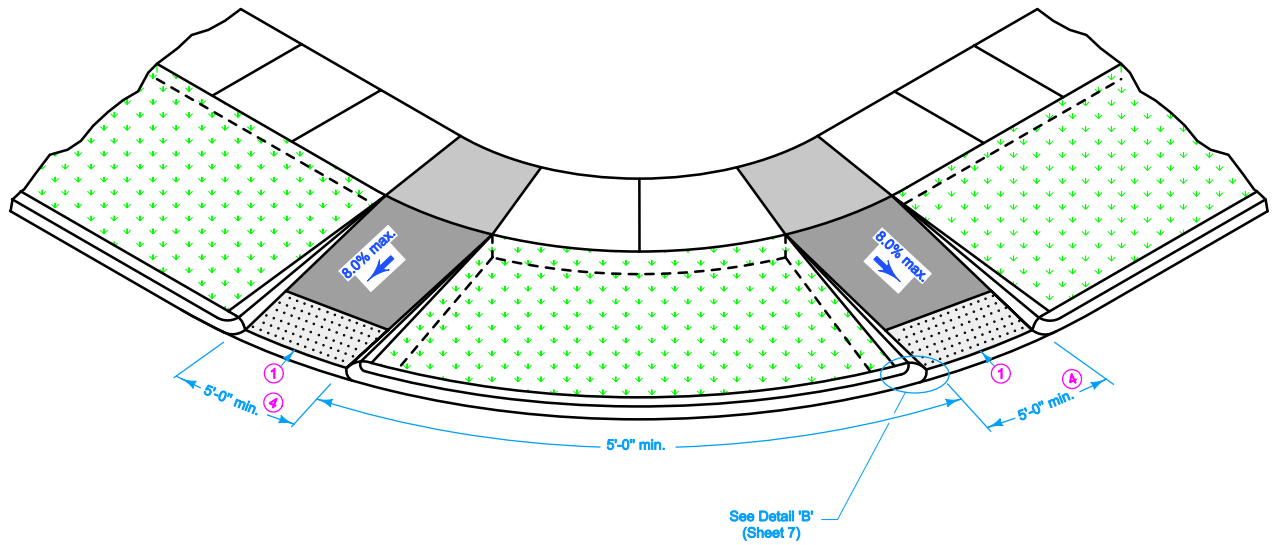
Installation of curb along sidewalk is considered incidental to sidewalk.

- ① Unless curb ramp is aligned perpendicular to the street radius, provide an area of special shaping at the bottom of the ramp. This area allows the grade break at the bottom of the ramp to be perpendicular to the ramp and provides a smooth transition to gutterline for wheelchair access. No curb lip allowed in this area. Maximum cross slope shall be 2%.
- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction is 2%.
- ④ Distance measured from face of curb to face of curb.

Possible Contract Items:  
 Detectable Warnings for Curb Ramps  
 Removal of Curb  
 Removal of Sidewalk  
 Sidewalk, P.C. Concrete, 6 in.

Possible Tabulation:  
 112-4

 <b>Iowa Department of Transportation</b>	REVISION
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SHEET 1 of 7	
REVISIONS: New. Replaces RB-8. Added Section C-C and general note.	
 APPROVED BY DESIGN METHODS ENGINEER	
<b>PEDESTRIAN CURB RAMPS</b>	

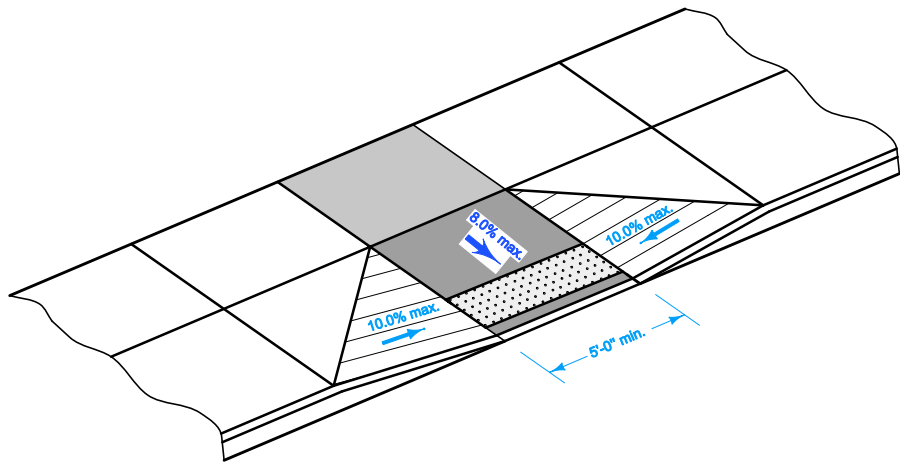


TYPICAL LARGE RADIUS APPLICATION  
OF TYPE 1-R

LEGEND	
	Curb Ramp ②
	Landing Area ③
	Detectable Warnings
	Vegetation

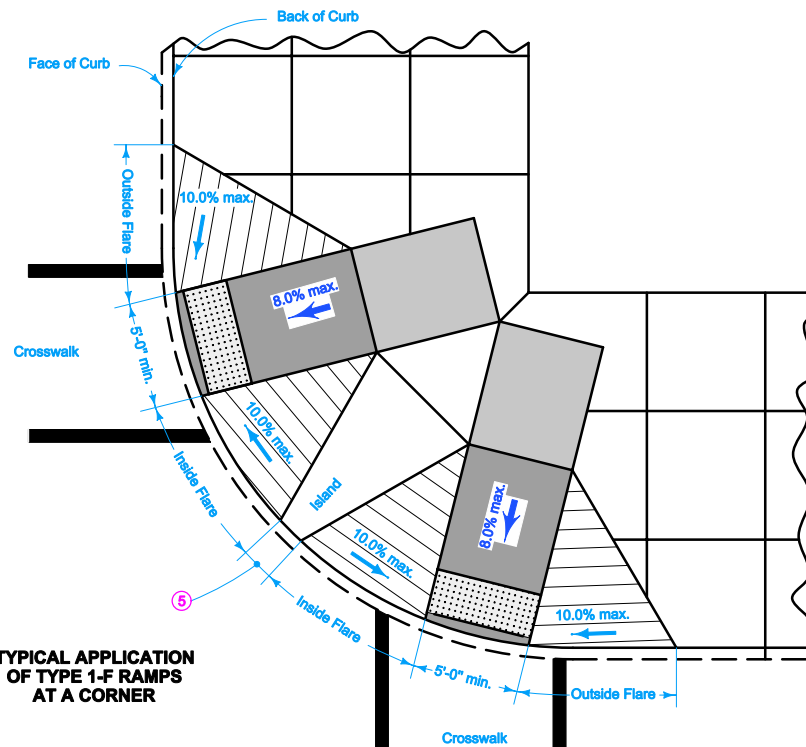
- ① Unless curb ramp is aligned perpendicular to the street radius, provide an area of special shaping at the bottom of the ramp. This area allows the grade break at the bottom of the ramp to be perpendicular to the ramp and provides a smooth transition to gutterline for wheelchair access. No curb lip allowed in this area. Maximum cross slope shall be 2%.
- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction is 2%.
- ④ Distance measured from face of curb to face of curb.

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REVISIONS: New. Replaces RB-8. Added Section C-C and general note.	
 APPROVED BY DESIGN METHODS ENGINEER	
<b>PEDESTRIAN CURB RAMPS</b>	








**TYPE 1-F  
PERPENDICULAR RAMP  
WITH FLARED SIDES**

- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction in 2%.
- ⑤ Width varies; if center island cannot be constructed at a minimum width of 2 feet and height of 3 inches by reducing the width of the island flares, refer to Type 5.

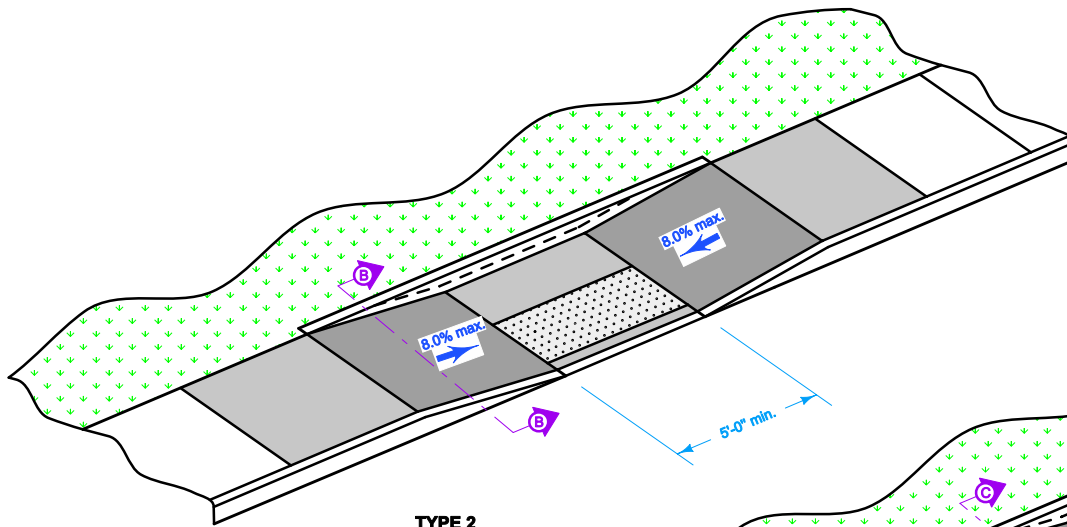


**TYPICAL APPLICATION  
OF TYPE 1-F RAMP  
AT A CORNER**

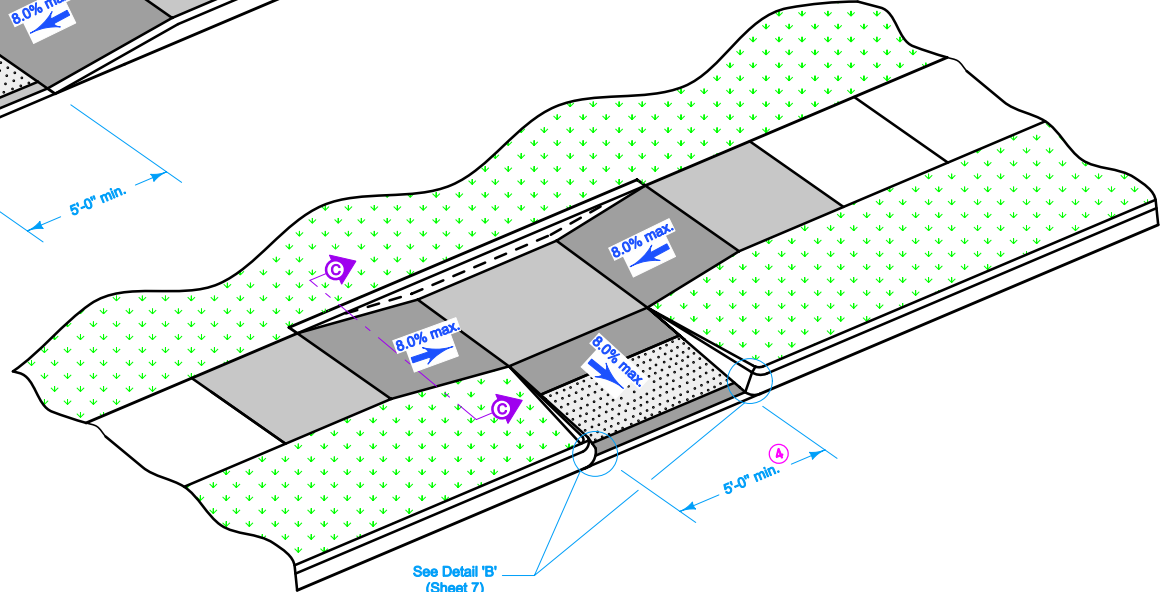
LEGEND	
	Curb Ramp ②
	Landing Area ③
	Detectable Warnings
	Flared Sides

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REVISIONS: New. Replaces RB-6. Added Section C-C and general note.	
<i>Deanna Mifflin</i> APPROVED BY DESIGN METHODS ENGINEER	
<b>PEDESTRIAN CURB RAMPS</b>	

- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction is 2%.
- ④ Distance measured from face of curb to face of curb.

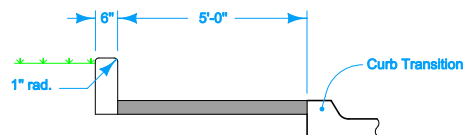


**TYPE 2  
PARALLEL RAMP**  
(For use with restricted right-of-way)

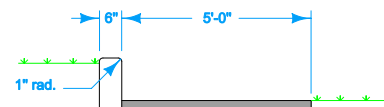


**TYPE 3  
COMBINATION RAMP**  
(For use with restricted right-of-way)

LEGEND	
	Curb Ramp ②
	Landing Area ③
	Detectable Warnings
	Vegetation



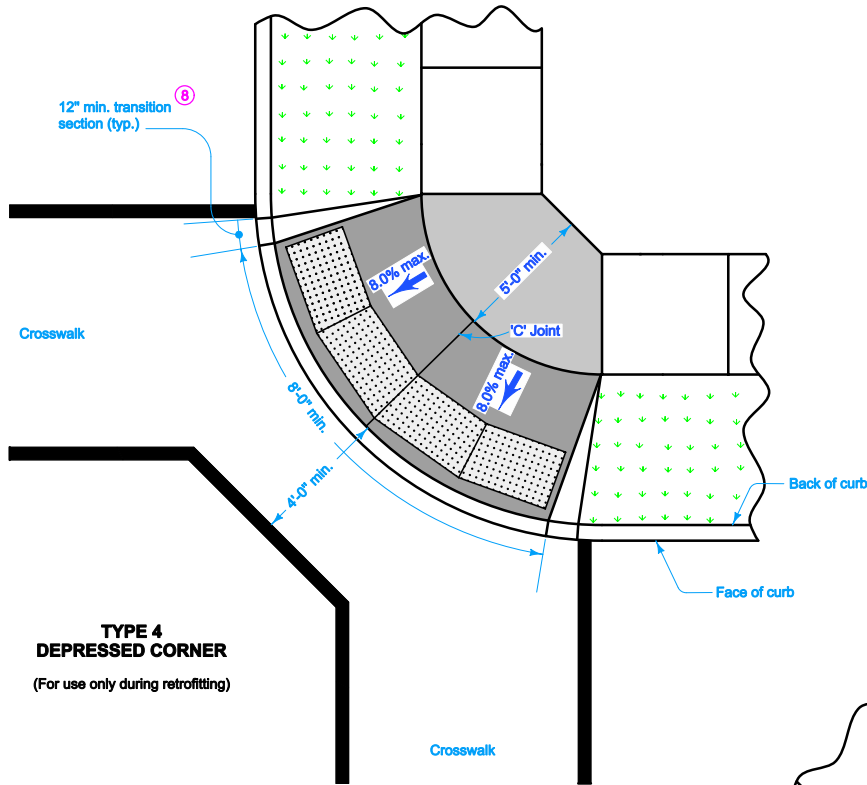
**SECTION B-B**



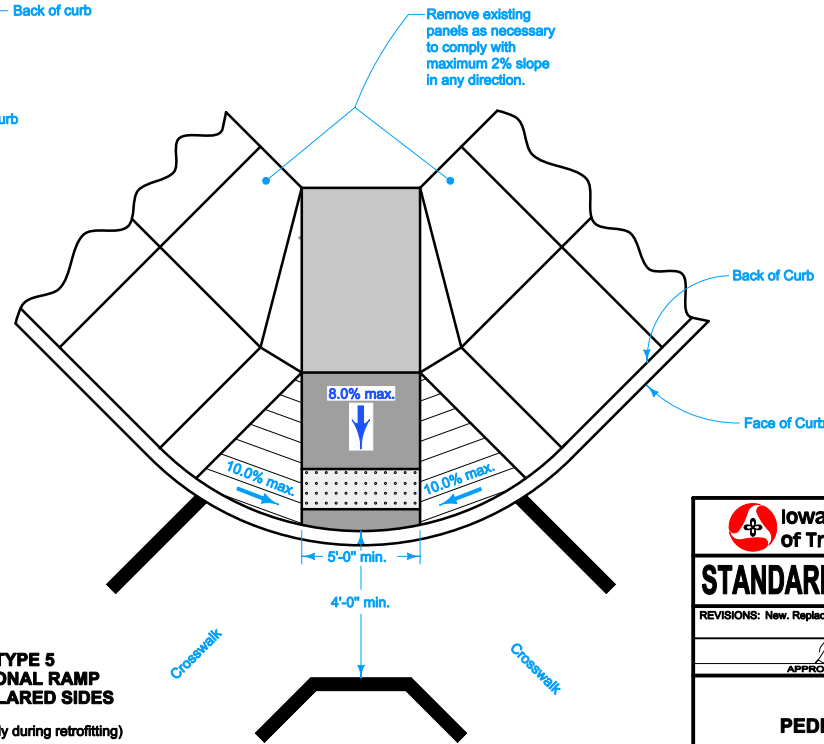
**SECTION C-C**

	REVISION
	New 04-20-10
<b>STANDARD ROAD PLAN</b>	<b>MI-220</b>
REVISIONS: New. Replaces RB-8. Added Section C-C and general note.	SHEET 4 of 7
<i>Deanna Mairfeld</i> APPROVED BY DESIGN METHODS ENGINEER	
<b>PEDESTRIAN CURB RAMPS</b>	

- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction is 2%.
- ⑧ At existing curb and gutter locations, remove curb and build transition section.



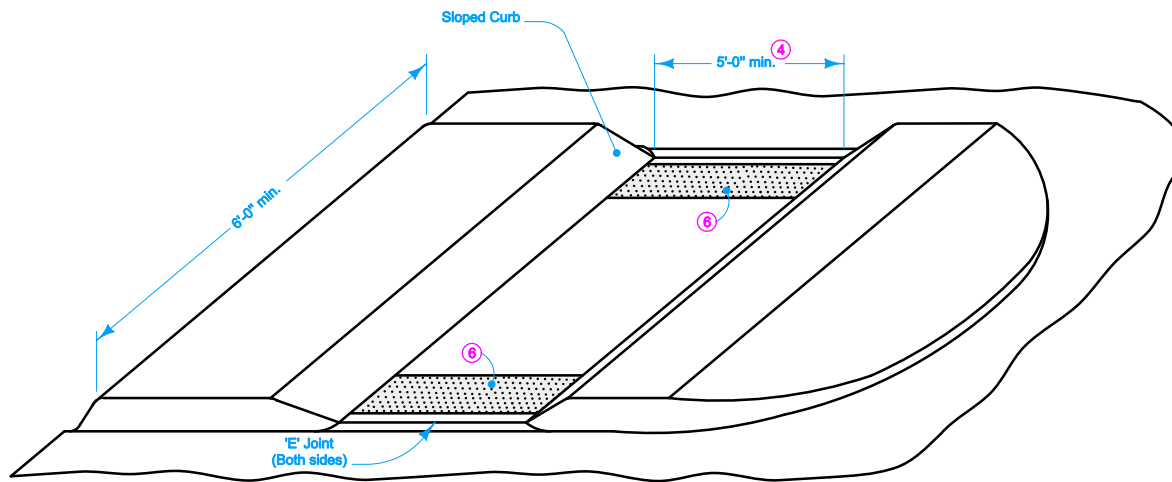
**TYPE 4  
DEPRESSED CORNER**  
(For use only during retrofitting)



**TYPE 5  
DIAGONAL RAMP  
WITH FLARED SIDES**  
(For use only during retrofitting)

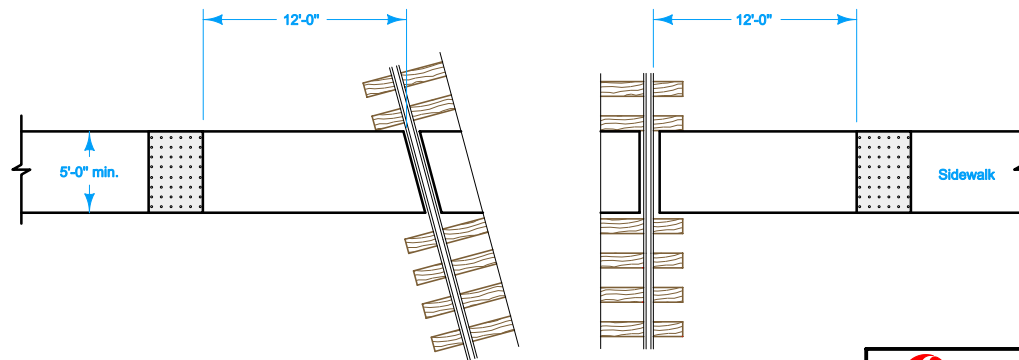
LEGEND	
	Curb Ramp ②
	Landing Area ③
	Detectable Warnings
	Vegetation
	Flared Sides

	REVISION
	New 04-20-10
<b>STANDARD ROAD PLAN</b>	<b>MI-220</b>
SHEET 5 of 7	
REVISIONS: New. Replaces RB-8. Added Section C-C and general note.	
 APPROVED BY DESIGN METHODS ENGINEER	
<b>PEDESTRIAN CURB RAMPS</b>	




- ④ Distance measured from face of curb to face of curb.
- ⑥ For medians at signal-controlled crossing:  
Where signal timing is such that most pedestrians are likely to cross the entire roadway within one crossing phase, omit detectable warnings.



**TYPE 6  
ACCESS AT CURBED MEDIANS**

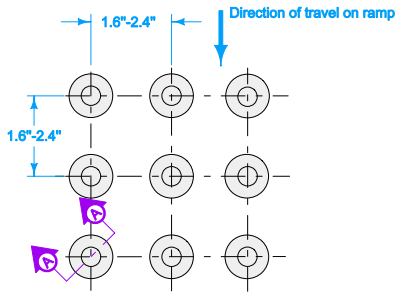


**TYPE 7  
RAILROAD CROSSING**

**LEGEND**

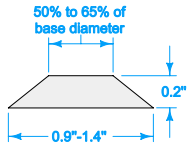
 Detectable Warnings

 Iowa Department of Transportation	REVISION
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REVISIONS: New. Replaces RB-6. Added Section C-C and general note.	
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<b>PEDESTRIAN CURB RAMPS</b>	

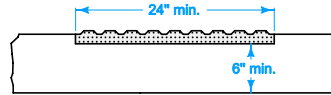


**SQUARE PATTERN**  
(Parallel alignment)

**DETECTABLE WARNINGS**

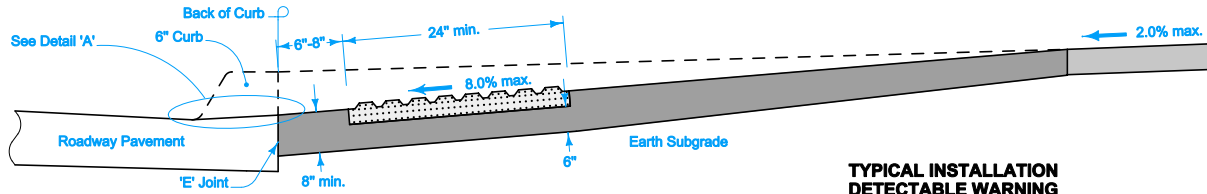


**SECTION A-A**



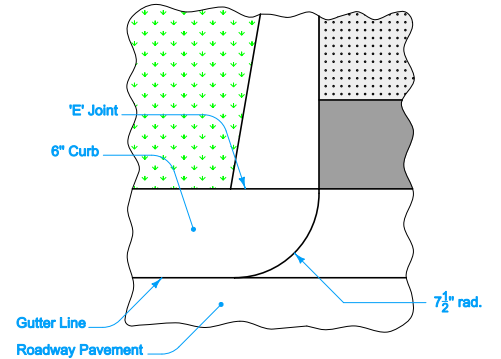
**DETECTABLE WARNING  
FLAT SURFACE INSTALLATION**

- ② Maximum cross slope on all ramps is 2%.
- ③ Provide a 5' min. x 5' min. landing area at all curb ramps. Maximum slope in any direction is 2%.
- ⑦ At points where a change in slope occurs, the algebraic grade difference shall not exceed 11%.

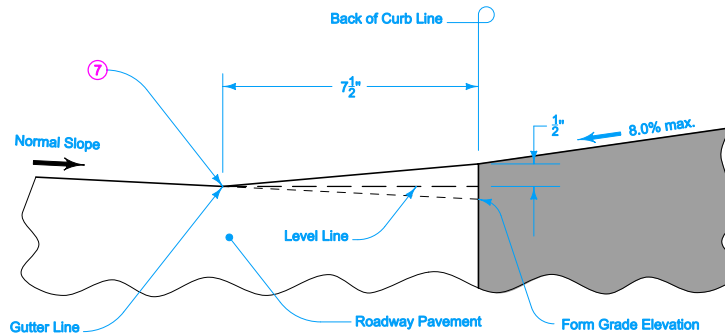
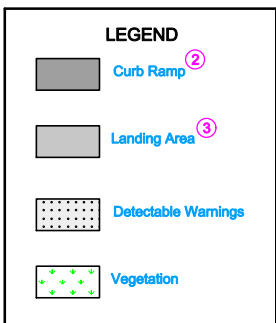


**TYPICAL INSTALLATION  
DETECTABLE WARNING**

(All ramp types except 2, 6, and 7)



**DETAIL 'B'**



**DETAIL 'A'**

	REVISION
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SHEET 7 of 7	
<small>REVISIONS: New. Replaces RB-8. Added Section C-C and general note.</small>	
<i>Deanna McFalls</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
<b>PEDESTRIAN CURB RAMPS</b>	