

GENERAL NOTES:

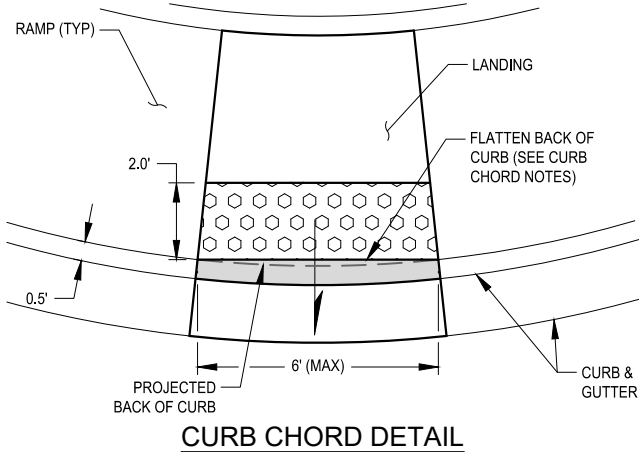
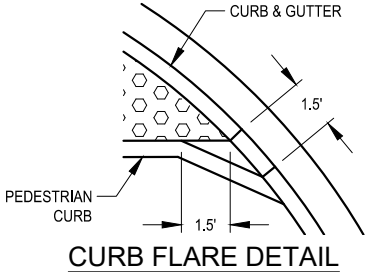
- 1. CURB RAMPS AND RELATED INFRASTRUCTURE SHALL CONFORM WITH THE CURRENT AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN GUIDELINES.
- 2. THE LONGITUDINAL SLOPE OF THE CROSSWALK (MARKED OR UNMARKED) SHALL NOT EXCEED 5%.THE CROSS SLOPE SHALL BE 2% MAXIMUM UNLESS CONTAINED IN A STREET WITHOUT YIELD OR STOP CONTROL, THEN MAXIMUM CROSS SLOPE IS 5%.
- 3. THE LONGITUDINAL SLOPE OF THE CURB RAMP SHALL BE 0.5% MINIMUM AND 8.33% MAXIMUM, BUT THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. IF THE RAMPS MAXIMUM LENGTH OF 15 FEET IS APPLYING, THE LONGITUDINAL SLOPE IS ALLOWED TO EXCEED 8.33%. THE MAXIMUM CROSS SLOPE SHALL BE 2%.
- 4. LANDINGS SHALL PROVIDE A 4-FOOT x 5-FOOT TURNING SPACE WITH A 0.5% TO 2.0% SLOPE IN EACH DIRECTION. TURNING SPACES MAY OVERLAP WITH OTHER TURNING SPACES AND CLEAR SPACES.
- 5. MAXIMUM SLOPES ARE STRICTLY ENFORCED. EXCEEDING THE MAXIMUM SLOPES WILL REQUIRE REMOVAL AND RECONSTRUCTION
- 6. ALL BROKEN, CRACKED, HEAVED AND SUNKEN CONCRETE SHALL BE REMOVED AND REPLACED FROM JOINT TO JOINT.
- 7. VERTICAL SURFACE DISCONTINUITIES SHALL BE 1/2" MAXIMUM. VERTICAL SURFACE DISCONTINUITIES BETWEEN 1/4" TO 1/2" SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 2H:1V.
- 8. GRADE BREAKS SHALL NOT BE ALLOWED ON THE SURFACE OF CURB RAMPS OR LANDINGS. GRADE BREAKS SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 9. DRAINAGE STRUCTURES, JUNCTIONS BOXES, OR OTHER OBSTRUCTIONS SHALL NOT BE PLACED IN FRONT OF RAMPS
- 10. CEMENT CONCRETE SHALL BE CLASS 4,000 CONCRETE PER SECTION 6-02 OF THE WSDOT STANDARD SPECIFICATIONS.
- 11. PEDESTRIAN RAMPS, LANDINGS AND SIDEWALK ADJACENT TO THE CURB SHALL BE 6" THICK WHEN LOCATED WITHIN CURB RETURN.
- 12. SUBGRADE AND CSTC UNDER ALL RAMPS SHALL BE COMPACTED TO 95%.
- 13. ALL PANEL EDGES SHALL BE TROWELED WITH 3/8" TO 1/2" RADIUS.
- 14. PERIMETER EDGING SHALL NOT BE ALLOWED UNLESS IT IS FOR A REPAIR/REPLACEMENT OF EXISTING PANELS AND ONLY WHEN MATCHING ADJACENT PANELS. CONTRACTOR SHALL MAKE AN EFFORT TO MATCH EXISTING PANELS IN ACCORDANCE WITH DIRECTION FROM CITY INSPECTOR.

- 15. EXCEPT FOR JOINTS AND BROOM FINISHING, NO OTHER MARKINGS ARE PERMITTED ON THE WALKING SURFACE.
- 16. PEDESTRIAN CURB MAY BE OMITTED IF THE GROUND SURFACE AT THE BACK OF THE CURB RAMP AND/OR LANDING WILL BE AT THE SAME ELEVATION AS THE CURB RAMP OR LANDING AND THERE WILL NOT BE MATERIAL TO RETAIN.
- 17. PROVIDE FLARED SIDES ON PERPENDICULAR OR COMBINATION CURB RAMPS WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE RAMP. THE FLARED SIDES ARE PART OF THE PEDESTRIAN CIRCULATION PATH, BUT ARE NOT PART OF THE PEDESTRIAN ACCESS ROUTE. THE SLOPE OF THE FLARED SIDES IS MEASURED PARALLEL TO THE CURB LINE. FLARED SIDES ARE NOT NEEDED OR MAY BE STEPPER WHEN THE PEDESTRIAN CIRCULATION PATH DOES NOT CROSS THE RAMP.
- 18. DETECTABLE WARNING SURFACES SHALL BE FEDERAL YELLOW IN COLOR. DETECTABLE WARNING SURFACES SHALL BE CAST IN PLACE OR LIQUID APPLIED.
- 19. DETECTABLE WARNING SURFACES SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE RAMP, LANDING OR OTHER ROADWAY ENTRANCE.
- 20. THE SIZE AND SPACING OF TRUNCATED DOMES SHALL BE PER WSDOT STANDARD PLAN F-45.10
- 21. THE ROWS OF TRUNCATED DOMES SHALL BE ALIGNED TO BE PARALLEL TO THE DIRECTION OF TRAVEL AND PERPENDICULAR TO THE GRADE BREAK AT THE BACK OF CURB.
- 22. WHEN THE GRADE BREAK BETWEEN THE CURB RAMP AND THE LANDING IS LESS THAN OR EQUAL TO 5 FEET FROM THE BACK OF CURB AT ALL POINTS, PLACE THE DETECTABLE WARNING SURFACE ON THE BOTTOM OF THE CURB RAMP DIRECTLY ABOVE THE GRADE BREAK.

CURB CHORD NOTES:

- 1. DETECTABLE WARNING SURFACE SHALL BE PLACED ADJACENT TO THE BACK OF CURB AND WITH NO MORE THAN A 2 INCH GAP BETWEEN THE DWS AND THE BACK OF CURB.
- 2. FOR RAMPS LOCATED WITHIN A CURB RETURN AND WIDER THAN 6 FEET THE DETECTABLE WARNING SURFACES MUST BE LIQUID APPLIED.
- 3. FOR RAMPS LOCATED WITHIN LARGER CURB RETURNS (>20FT RADIUS) AND 6 FEET IN WIDTH OR LESS, THE BACK OF CURB MAY BE CONSTRUCTED AS A CHORD/STRAIGHT LINE TO ADHERE TO THE 2 INCH GAP REQUIREMENT.

RAMP REQUIREMENTS			
	RECOMMENDED	MINIMUM	MAXIMUM
FLARED SIDE SLOPE (%)	9.5	0.5	10
FLARED SIDE LENGTH (FT)		5	15
RAMP SLOPE (%)	7	0.5	8.33*
RAMP CROSS SLOPE (%)	1	0.5	2*
RAMP LENGTH (FT)		6	15
RAMP WIDTH (FT)		4	-
LANDING WIDTH (FT)		5'	-
LANDING SLOPE (%)	1	0.5	2*
GUTTER SLOPE (%)	4	2	5
CHANGE IN LEVEL (IN)	FLUSH		0.5", SEE NOTE 2
*ADA REQUIREMENT			



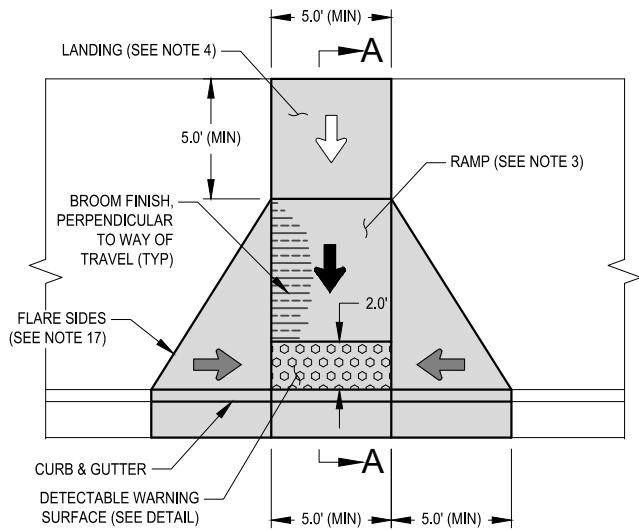
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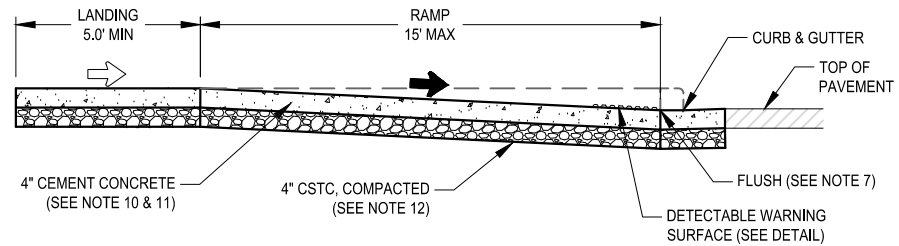
PEDESTRIAN RAMPS  
NOTES AND DETAILS

STANDARD PLAN NO.  
R-109

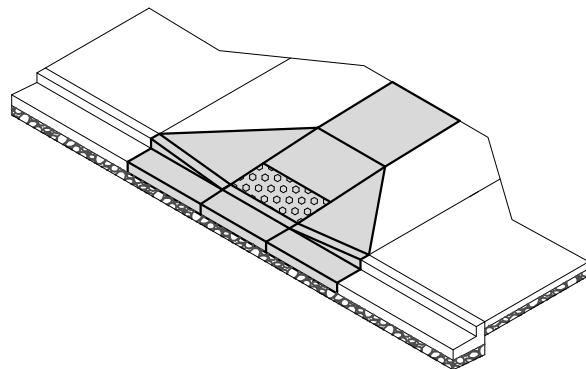
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PLAN VIEW



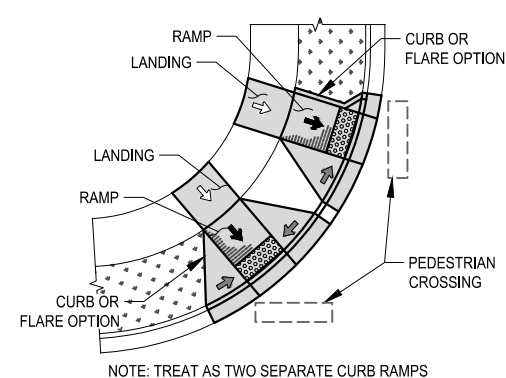
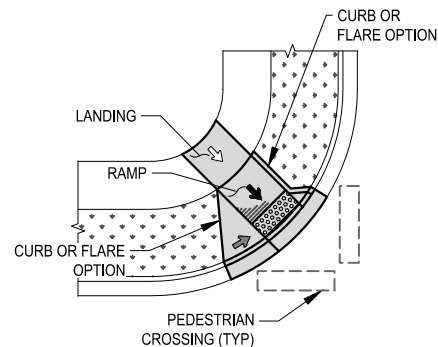
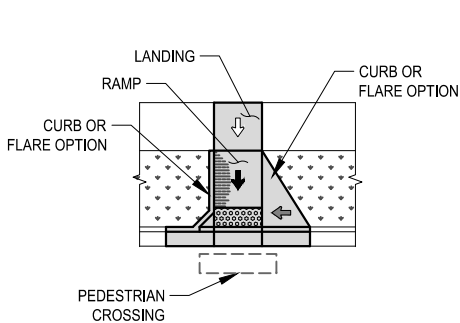
SECTION A-A



ISOMETRIC VIEW

# SYMBOL LEGEND

- 1.0% TO 2.0%
- 5.0% TO 8.3% RUNNING SLOPE  
2.0% OR FLATTER CROSS SLOPE
- 10.0% OR FLATTER SLOPE



EXAMPLE APPLICATIONS

PAGE 2 OF 5



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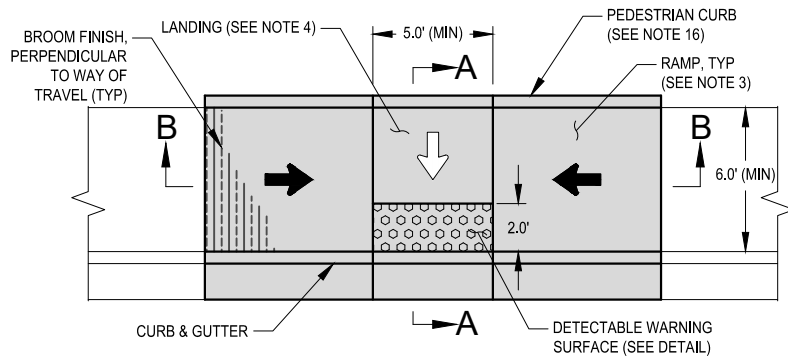
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PEDESTRIAN RAMPS  
PERPENDICULAR

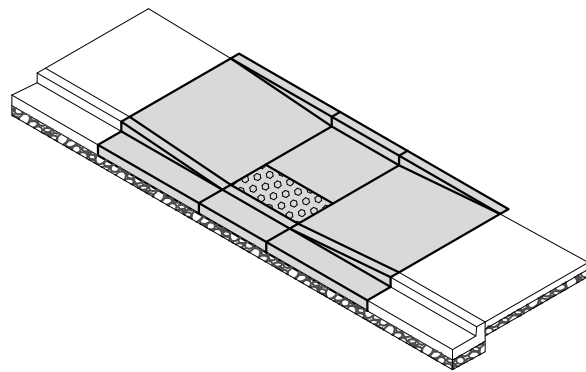
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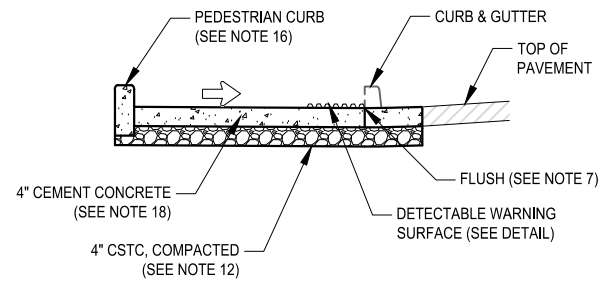
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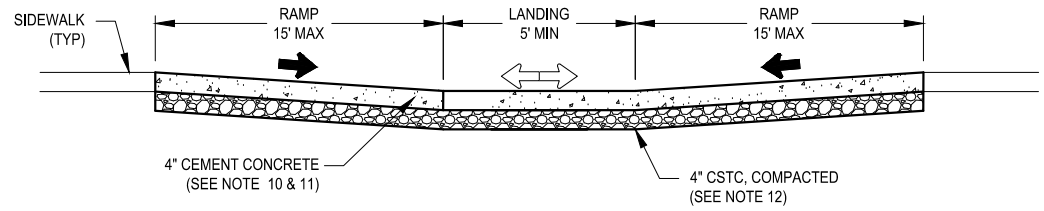
PLAN VIEW



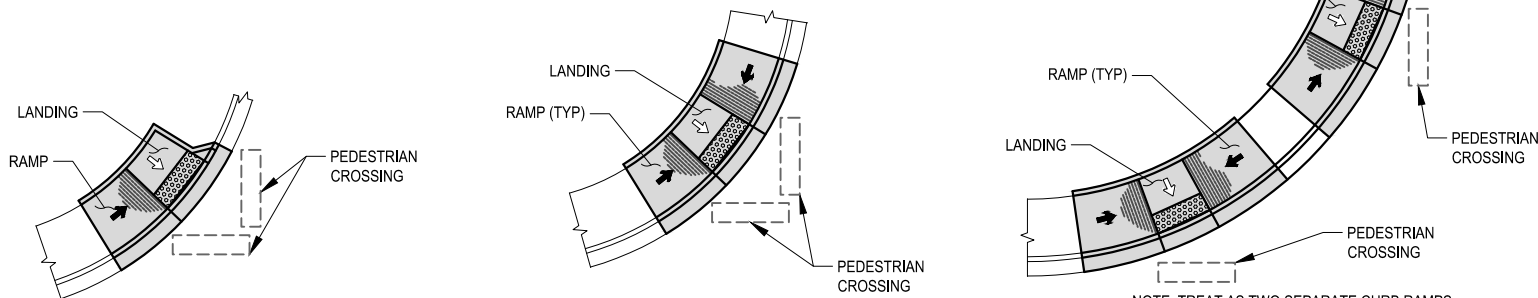
ISOMETRIC VIEW



SECTION A-A



SECTION B-B



EXAMPLE APPLICATIONS

## SYMBOL LEGEND

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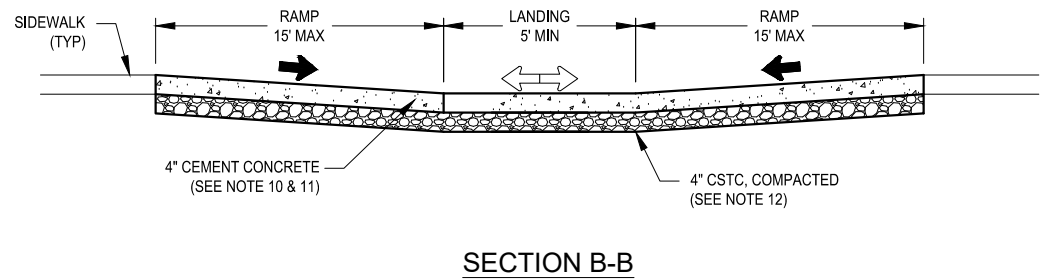
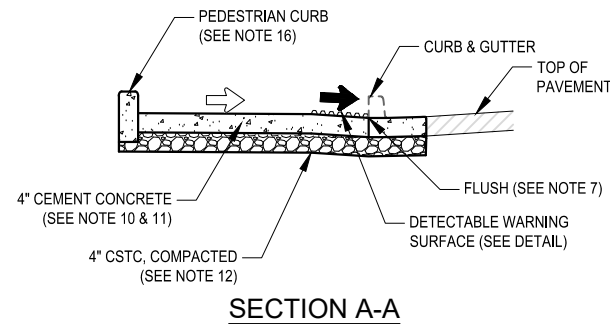
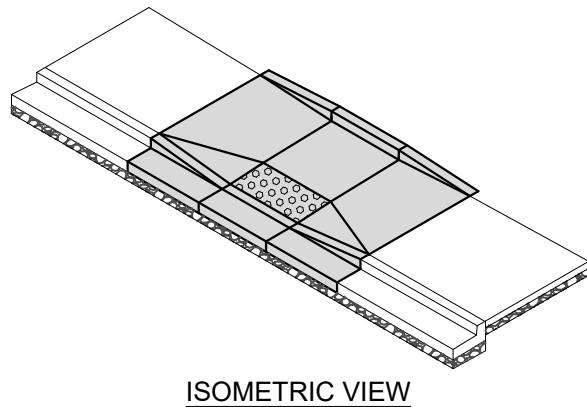
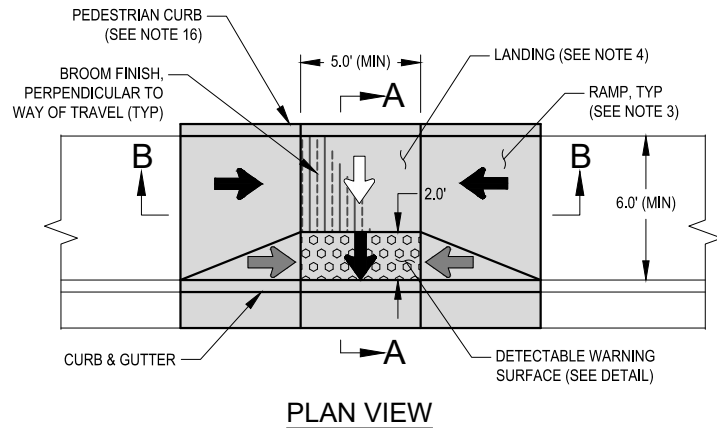
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**PEDESTRIAN RAMPS  
PARALLEL**

**STANDARD PLAN NO.  
R-109**

PUBLICATION DATE: 03/2025

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## SYMBOL LEGEND

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PAGE 4 OF 5



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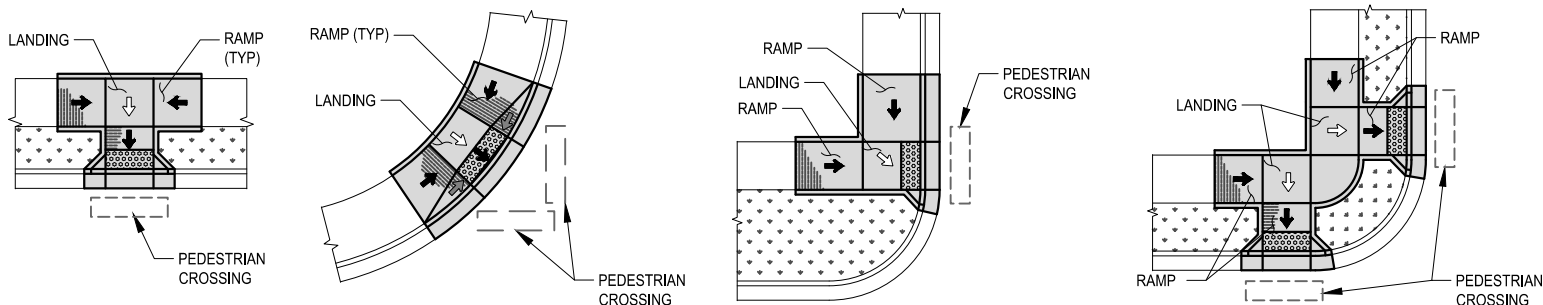
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**PEDESTRIAN RAMPS  
COMBINATION**

**STANDARD PLAN NO.  
R-109**

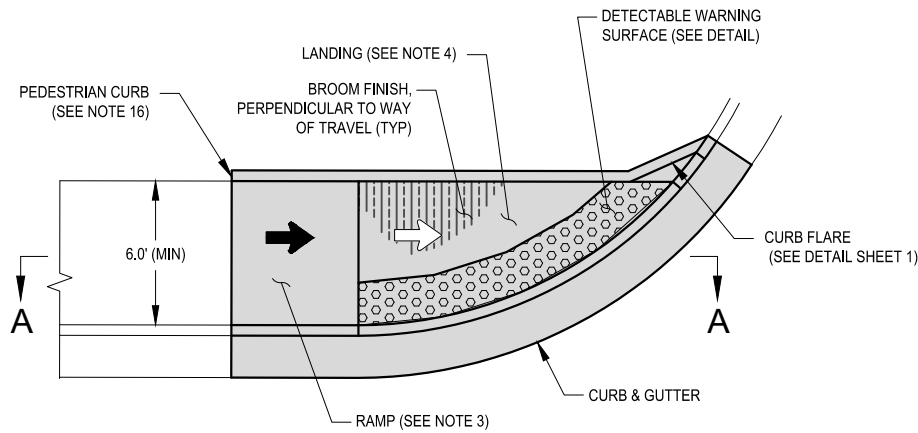
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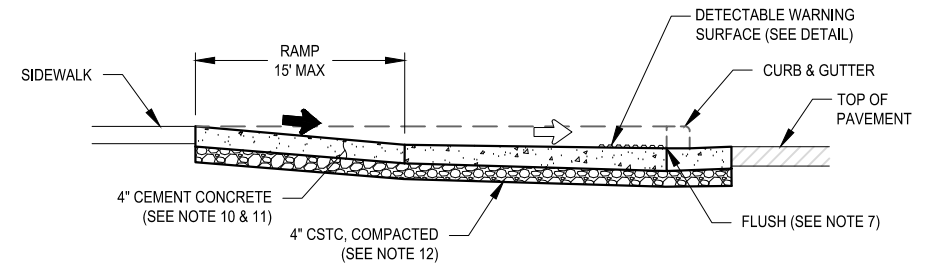


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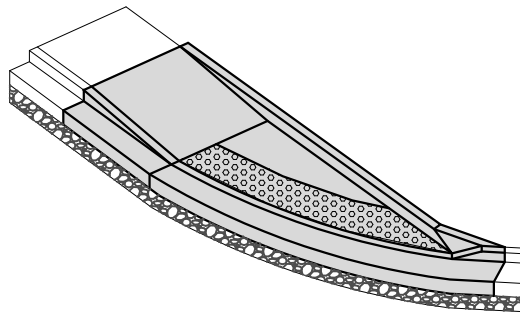
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2.0% OR FLATTER CROSS SLOPE
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**PLAN VIEW**



**SECTION A-A**



**ISOMETRIC VIEW**

PAGE 5 OF 5



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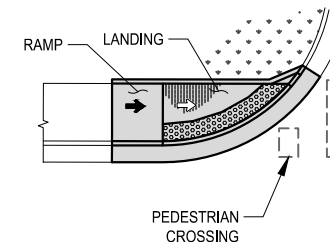
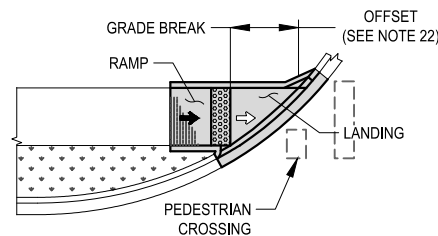
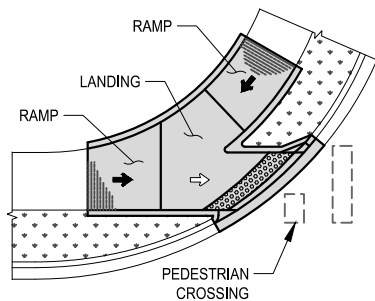
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**PEDESTRIAN RAMPS  
SINGLE DIRECTION**

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R-109**

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**EXAMPLE APPLICATIONS**