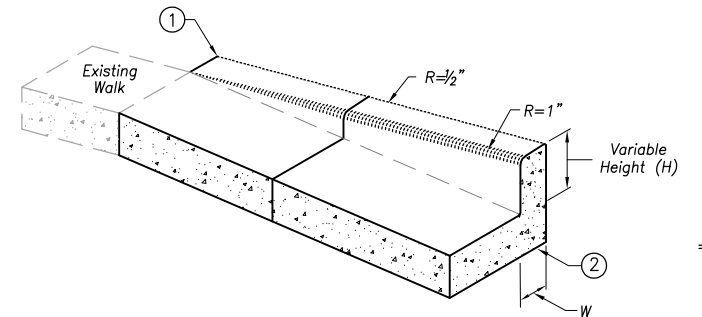
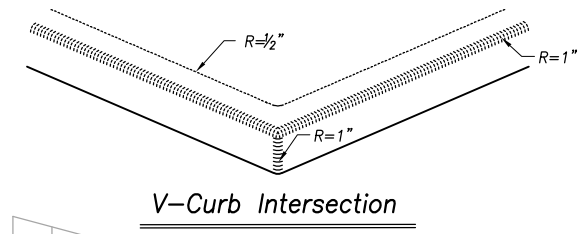


V-Curb Adjacent to Landscape  
Curb within Sidewalk Limits

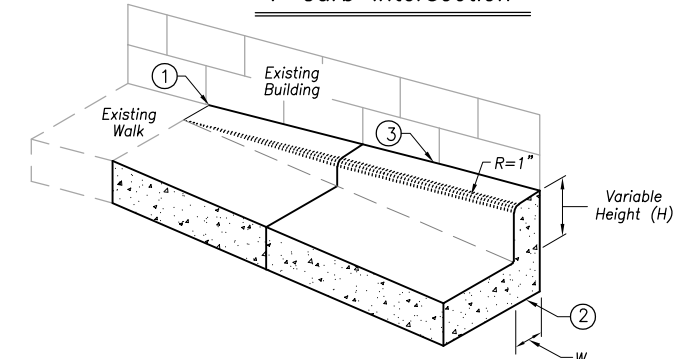


V-Curb Adjacent to Landscape  
Curb outside Sidewalk Limits

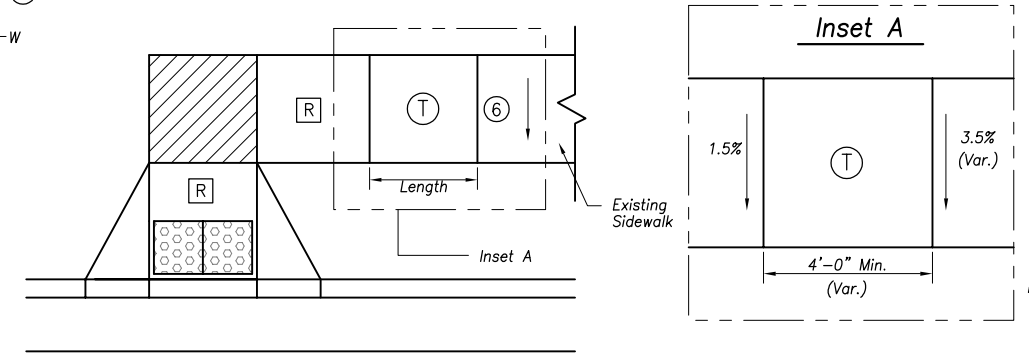
Concrete Curb Design V	
Curb Height H	Curb Width W
< 6"	4"
6" - 12"	6"



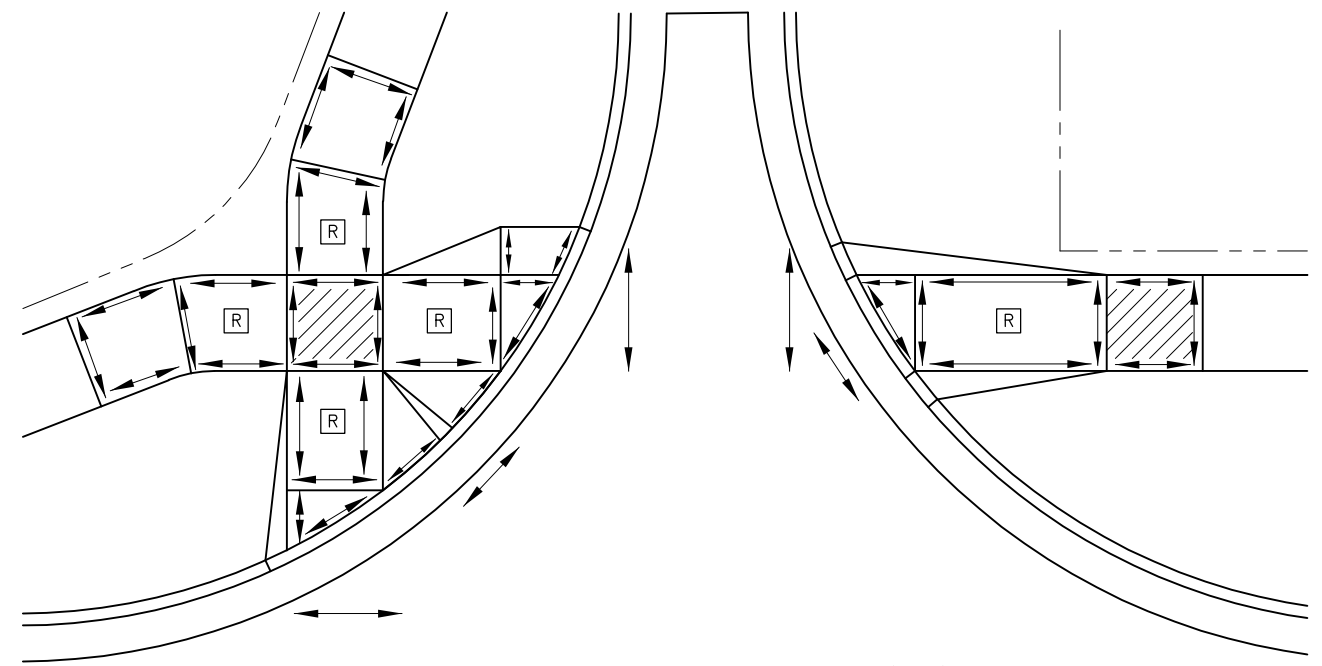
V-Curb Intersection



V-Curb Adjacent to Building or Barrier

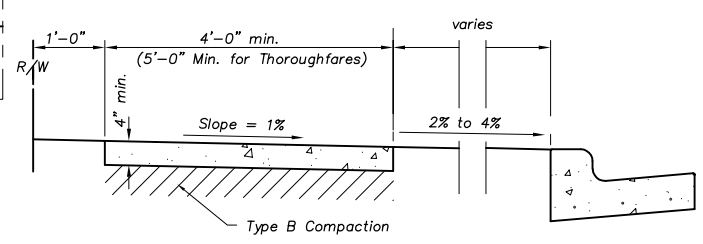


Transition Panel (4) (5)

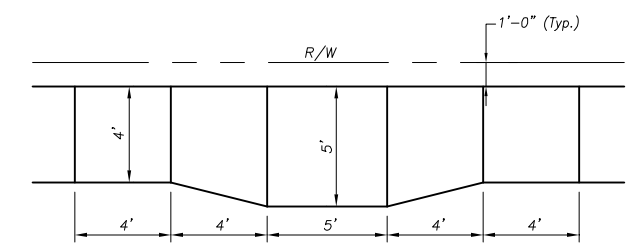


Compliance Reading Locations ( \* )

\* - Measurements shall be taken in accordance with current ADA requirements.



Standard Sidewalk



Wheelchair Passing Space

Wheelchair Passing Space to be Constructed where Length of 4' Wide Sidewalk Exceeds 200'.

**Ramp Element Notes:**

A walkable flare is an 8-10% concrete flare that is required when the flare is adjacent to a walkable surface, or when the pedestrian path of travel of a push button traverses the flare.

Where right-of-way allows, use of V curb should be minimized. Grading adjacent turf or sloping adjacent pavement is preferred. 6:1 grading preferred, 4:1 maximum. On rehabilitation projects if 4:1 is exceeded within right of way, V-curb should be used.

V-curb shall be placed outside the sidewalk limits when right of way allows.

V-curb next to building shall be a 4" width and shall match previous top of sidewalk elevations.

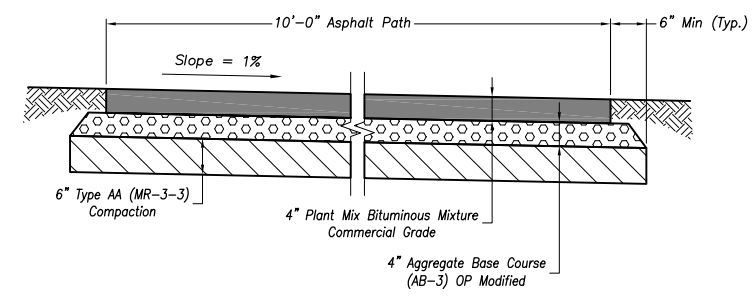
All V-curb contraction joints shall match concrete walk joints.

Some detectable warning products require a concrete border for proper installation. The concrete border should not exceed 2 inches.

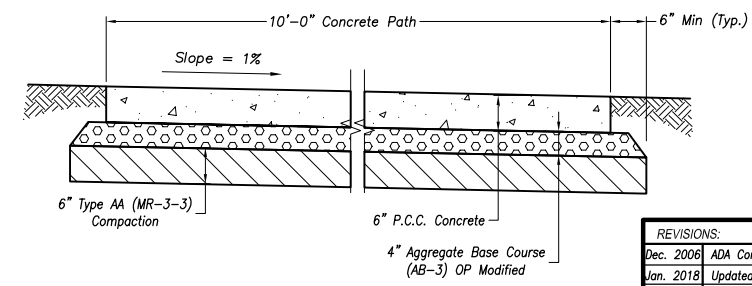
- End tapers at transition section shall match in-place sidewalk grades.
- All V curb shall match bottom of adjacent walk.
- Edge between new V-curb and in-place structure shall be sealed and bond breaker shall be used between existing structure and placed V-curb.
- The max. rate of cross slope transitioning is 1 linear foot of sidewalk per half percent cross slope. When PAR width is greater than 6' or the running slope is greater than 5%, double the calculated transition length.
- Transition panels are to only be used after the ramp.
- Existing cross slope.

**Sidewalk Ramp Elements General Requirements:**

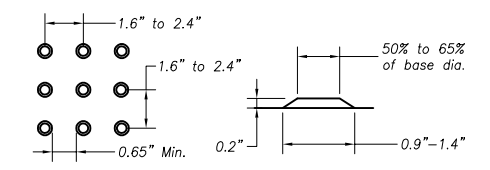
- RAMP** (Required to transition elevation): Max Running Slope - 8.33%  
Max Cross Slope - 2% (1% preferred)  
Min Width - 4'
- TURNING SPACE** (Required to change direction of travel): Max Running Slope - 2%  
Max Cross Slope - 2% (1% preferred)  
Min Width - 4'
- DETECTABLE WARNING SURFACE:** Width equals Ramp Opening Width @ Curb  
Min Length - 2'  
Domes should be aligned with direction of travel.



Standard Asphalt Bike/Hike Path



Standard Concrete Bike/Hike Path



Truncated Dome Dimensions

Legend	
	Curb Ramp
	Transition panel(s) - to be used for transitioning the cross-slope of a ramp to the existing walk cross-slope. Rate of transition should be 0.5% per 1 linear foot of walk. See this sheet for additional information.
	Turning Space - 4' x 4' min. (5' x 4' min. when constrained). Max 2.0% slope in all directions. Turning Spaces shall be full width of incoming PARs.
	Detectable Warning Plates

**Cast Iron Detectable Warning Plate Notes:**

- See Preapproved Materials List for products.
- Detectable Warning Surface to extend a minimum of 2' in direction of travel.
- Detectable Warning Plates placed radially behind the curb shall be Radius Plates.
- Detectable Warning Plates shall be installed per manufacturer's recommendations and cleaned of excess material after installation.
- Void in vent holes shall be filled with Joint Sealant (ASTM C 920 Class 35).

REVISIONS:	
Dec. 2006	ADA Compliance
Jan. 2018	Updated ADA Compliance
RELATED ORDINANCES:	
OPMC Title 13	

Year 2022 Edition

**OVERLAND PARK**  
KANSAS  
ABOVE AND BEYOND. BY DESIGN.

DEPARTMENT OF PUBLIC WORKS  
STANDARD DETAILS

**SIDEWALK & SIDEWALK RAMP DETAILS**

DATE: 01/20/04 SHEET: 32\_C