**Symbol Legend**

- 1.0% to 2.0% slope
- 5.0% to 8.3% running slope
- 2.0% in flatter cross slope
- 10.0% or flatter slope

**Example Applications**

- **Combination Curb Ramp**
  - Minimum 15' max.
  - Minimum 4' min.
  - Minimum 4' min. (optional)

- **Concrete Base**

- **Aggregate Base**

- **Curb Ramp Station/Loc**

- **Curb and Gutter**
  - Section see Std. Sec. 815-1

- **Bottom Grade Break**

- **Curb and Gutter Cut**
  - Section see Std. Sec. 815-1

**Isometric View**

**Curb Cut Detail**

**REVISIONS**

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**STANDARD DRAWING**

- **Curb Ramps**

- **STD. Dwg. No.:** 614-3

- **Boise, Idaho**

- **3311 West State**

- **Headquarters**

- **AT: ITD, ORIGINAL STORED**

- **BOISE IDAHO**

- **ORIGINAL SIGNED BY: KEVIN SABLAN**

- **DESIGN/TRAFFIC SERVICES ENGINEER**

- **10-15, 2015**

- **Drawing Date:** 1-01-90

- **DESIGNER:**

- **13683**

- **RATING:**

- **U.S. West Zone**

- **State:**

- **LICENSED PROFESSIONAL ENGINEER**

- **13663**

- **STATE OF INDIANA**

- **10-02-95**

- **12-04-98**

- **10-02-95**

- **CARD FILE NAME:** 614-3_0615.dgn

- **PRINTS ONLY ARE FOR 11" X 17" SCALES SHOWN**
1. Extents of curb ramp pay items are shown in gray shading.
2. Curb ramps can be perpendicular, parallel, or a combination of parallel and perpendicular ramps. Example applications of each are shown on sheets 1, 2, and 3.
3. Perpendicular curb ramps have a ramp that cuts through the curb at right angles or meets the curb grade break at right angles when the curb is curved.
4. Parallel curb ramps have a ramp or ramps in line with the direction of sidewalk travel and lower the sidewalk to a level turning space where a turn is made to enter the pedestrian street crossing.
5. Combination curb ramps have features from perpendicular and parallel curb ramps.
6. Provide a turning space with a 2.0' or flatter slope in each direction. Turning spaces may overlap with other turning spaces and clear spaces.
7. Perpendicular curb ramp: Provide a 4' by 5' turning space when the turning space is constrained on two or more sides. Ensure that the 5 dimension is provided in the direction of the pedestrian street crossing.
8. Provide a clear space between the bottom of the grade break that is within the width of the pedestrian street crossing and wholly outside the parallel vehicle traffic lane.
9. Cross slope is the slope perpendicular to the direction of pedestrian travel. Ensure that the cross slope of the ramp and turning space does not exceed two percent. At pedestrian crossing at right angles, the cross slope may match the street or highway grade, flatten the cut edge of the flowline through curb ramps to two percent or flatter when needed. When the pavement is sawcut to flatten the flowline, vary the width of the sawcut so that the pavement patch smoothly matches the existing pavement.
10. Provide flared sides on perpendicular curb ramps, or combination curb ramps where a pedestrian circulation path crosses the curb ramp, the flared sides are not part of the pedestrian circulation path, but are part of the pedestrian access route. The slope of the flared sides is measured parallel to the line of the flared sides.
11. Transition ramps are provided for perpendicular and parallel ramps. Example applications of each are shown on sheets 1, 2, and 3.
12. Ensure that grade breaks are perpendicular to the direction of the ramp and are flush. Do not create grade breaks on the surface of ramp runs and turning spaces.
13. Ensure that the counter slope of the gutter or street at the foot of curb ramps runs does not exceed five percent.
14. Where practical, place utility covers, vault frames, and gratings outside ramp runs, turning spaces, or gutter areas. Locate catch basins and inlets outside of ramp runs.
15. Detectable warning surfaces consist of truncated domes aligned in a square or radial grid pattern. Provide detectable warning surfaces that contrast visually within adjacent gutter header, pedestrian access route surface, and 0.65' to 1.4' minimum dome size. Provide a turning space with a 2.0% or flatter cross slope when the curb is perpendicular or parallel, or a combination of parallel and perpendicular ramps.
16. Place detectable warning surfaces on the turning space at the back of curb ramps.
17. Use a curb ramp Preventative between the curb ramp or sidewalk and curb when constructed separately and placed adjacent to each other.
19. Drawing not to scale.

NOTES