



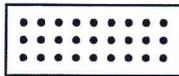
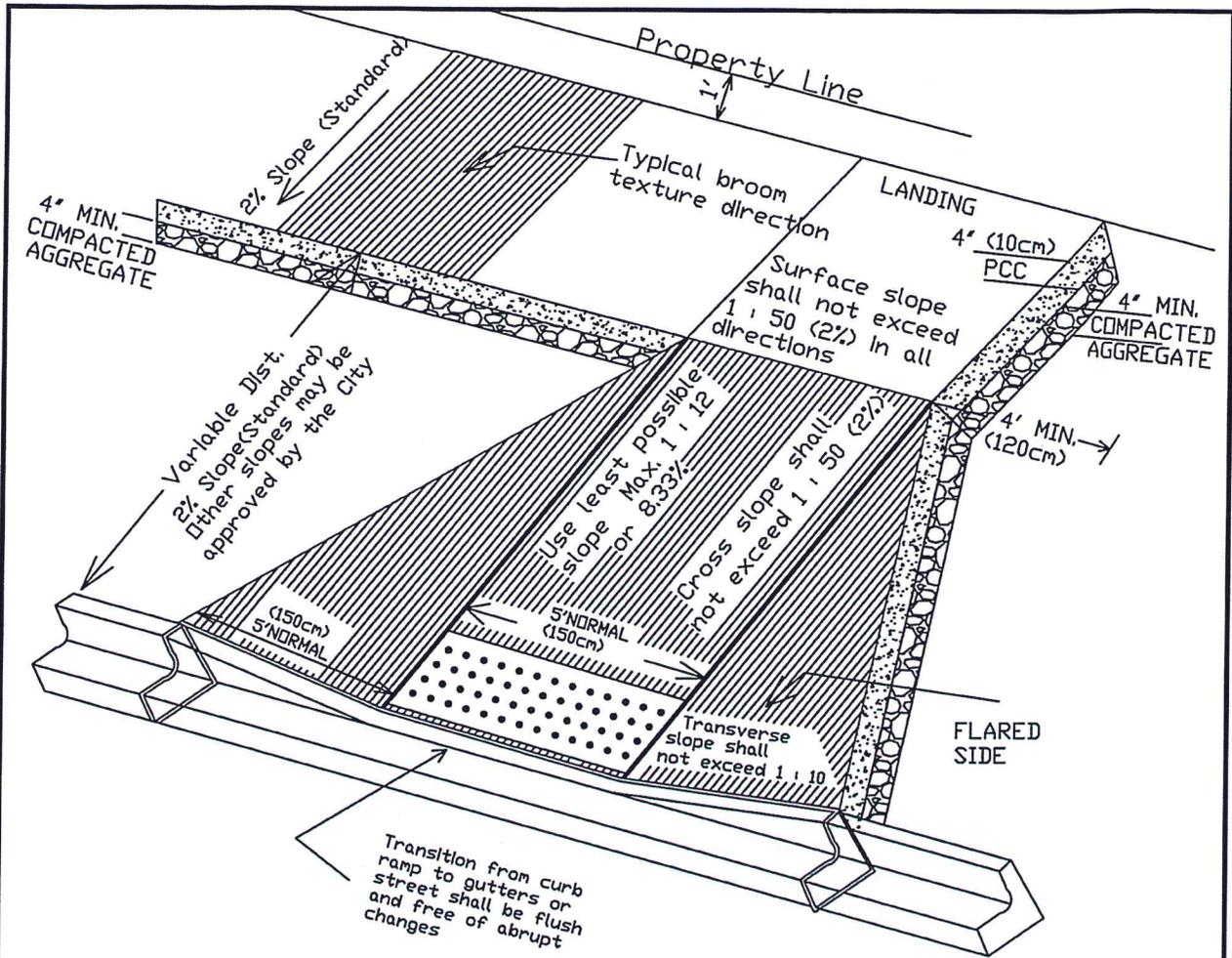
City of Baker City Public Works Department

2024 General Sidewalk/Driveway Repair & Replacement Guidelines

Highlights of the City of Baker City's 1997 revised construction specifications and the American Concrete Institute recommendations

- (1) Sidewalks within the residential zones are typically 5' in width and are set 1' off of the property line. Sidewalks within commercial zones or within the Historic District are required to be 6' in width. Sidewalks within the Historic District shall be finished with 2' squares which are tooled into the finished product (see standard drawing).
Variances in sidewalk setback or width are subject to approval by the Public Works Department.
- (2) **All sidewalks shall have a minimum 4" of ¾"-0" compacted crushed rock and 4" of concrete, unless in a driveway area. Driveway areas shall have a minimum 6" of ¾"-0" compacted crushed rock and 6" of concrete. All curb replacements must have a minimum of 10" of ¾"-0" compacted crushed rock, unless otherwise approved by the City of Baker City.** The use of jaw run with a 1" leveling course of ¾"-0" crushed rock is also acceptable under concrete sidewalks and driveways, provided the required minimum depths are achieved.
- (3) Sidewalks are set with a 2 percent maximum slope from top of the existing high curb ascending to back of sidewalk or as approved by the City of Baker City for drainage purposes. For 5' wide sidewalks, set the forms cross slope at 1" of fall = 1.7 percent. The sidewalk grade line shall be parallel to and 2 percent above the top of high curb, or as directed by the COBCⁱ. Do not match the existing ground topography unless otherwise directed by the COBC. COBC will determine sidewalk grade if no curb exists or only partial curb exists.
- (4) Sidewalks shall have a light broom finish perpendicular to the foot traffic direction (see standard drawing).
- (5) When curb ramp replacement or installation is necessary, the COBC will supply truncated dome panels and any necessary curb replacement according to ADA requirements.
- (6) Contraction joints will be placed every 5' for standard 5' wide sidewalks. Contraction joints will be placed every 6' for standard 6' wide sidewalks. For properties within the Historic District, contraction joints will be placed every 2' for the 2' square sidewalk. Tooled joints are to be a minimum of ½" depth. Isolation/expansion joints are not required unless matching an existing irregular face.
- (7) Tree roots with the potential of causing heaving problems/trip hazards will require key stock material placed at contraction joints. These materials will be supplied by the COBC.
- (8) Portland Cement Concrete (PCC) is to be a minimum six sack per cubic yard, with 4 to 7 percent air entrainment. When ordering ask for the following: six sack mix, 4 to 7 percent air entrainment, and a 4" maximum slump.
- (9) Immediately after concrete is finished, it shall be cured using either a liquid membrane concrete sealer or by continual hydration. **After the initial cure**, concrete can be covered with a plastic membrane or continuously wetted burlap to aid in curing.
- (10) Area surrounding new sidewalk/driveway construction must be backfilled with appropriate material so that the backfilled area is level with the surface of the newly constructed sidewalk/driveway for a distance of at least 12".
- (11) Use of monolithic curb and sidewalk is only allowed if approved by the City Manager. If used, the minimum concrete thickness at curb face shall be 16".
- (12) **COLD WEATHER REFERENCE GUIDE**
 - (a) Do not pour concrete on frozen ground. Air temp must be a minimum of 40°F at time of placement.
 - (b) Calcium chloride is not recommended but 2% or less is acceptable. Do not use calcium chloride when using steel reinforcement. Hot water can be used at the batch plant if needed.
 - (c) Insulation blankets and an external heat source should be used if necessary to prevent concrete from freezing for the first 7 days. Temperature of fresh concrete must be sustained to a minimum of 40°F at all times.
 - (d) **No concrete work is permitted to be done within the public right-of-way from October 15 through March 15, unless otherwise approved by Public Works staff.**

ⁱ COBC = City of Baker City



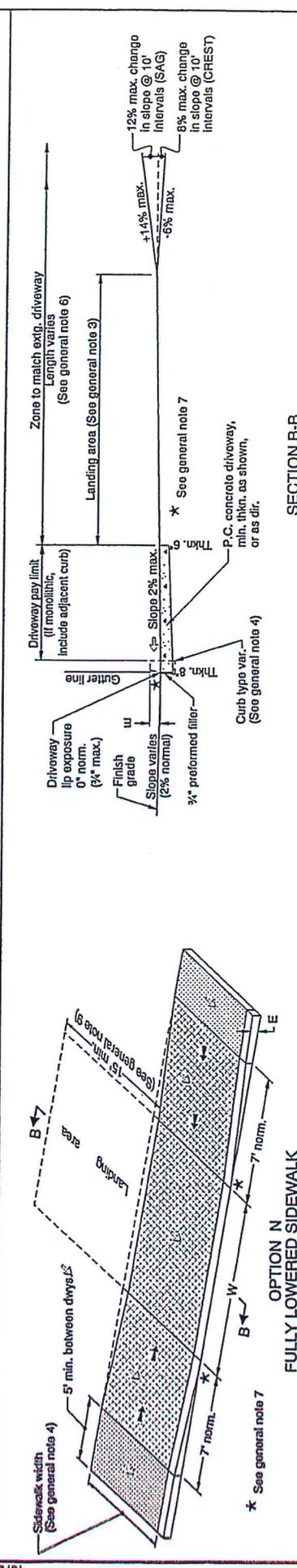
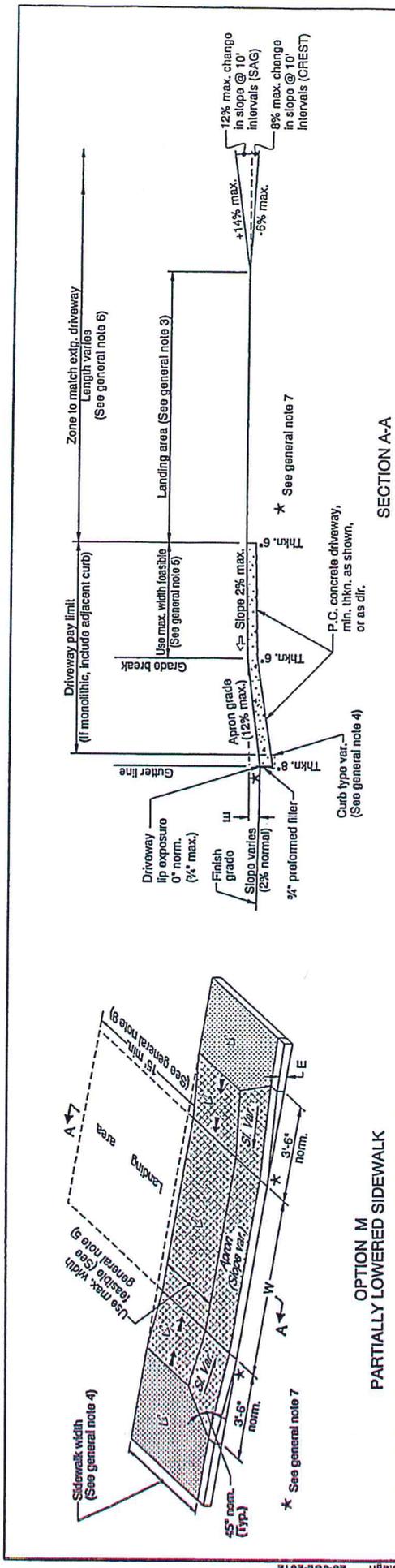
RAMP DETAIL

(Broom finish after placing panels)

Truncated dome panels will be provide by COBC as per ADA requirements. Panel size (2'x4' or 2'x5') will be determined on a case by case basis.

This standard drawing was drawn using information provided in the American's with Disabilities Act. It is intended to comply with this Act.

CITY OF BAKER CITY OFFICE OF TECHNICAL SERVICES	
PERPENDICULAR CURB RAMP STANDARD DRAWING	
DATE: MARCH 1995	DRAWING NO. 206



**OPTION M
PARTIALLY LOWERED SIDEWALK**

**OPTION N
FULLY LOWERED SIDEWALK**

GENERAL NOTES FOR ALL DETAILS:

- Details are based on United States Access Board Standards.
- Only use details allowed by jurisdiction.
- The following dimensions are as shown on plans, or as directed: driveway width, driveway stop, sidewalk width, curb exposure, driveway lip exposure, landing area length and width.
- Curb, gutter, and sidewalk types varies, see plans. See Std. Drg. RD700 & RD701 for curb details.
- See Std. Drg. RD720 for sidewalk details.
- 4' unobstructed clear passage with slope of 2% max. is acceptable behind driveway apron. 3.5' width is acceptable where sidewalk width is less than standard 5'.
- Where existing driveway is in good condition, and meets slope requirements, construct only as much as required for satisfactory connection with new work.
- Check the gutter flow depth at driveway locations to ensure that the design flood does not overlap the back of sidewalk at driveway.
- If overlapping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
- Tooled joints are required at all driveway slope break lines.
- 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.
- Monolithic curb & sidewalk that retain thickened edge through lowered profile, to accommodate driveway use. See Std. Drg. RD720 for details.
- Any dimensions except those of general note 5 may be amended by local agencies for their use.
- In alterations, curb ramp slope(s) may be 10% for a max. rise of 6', or 12.5% for a max. rise of 3'.

DRIVEWAY PAY LIMIT (If monolithic, include adjacent curb)
 Zone to match extg. driveway length varies (See general note 6)
 Landing area (See general note 3)
 Apron grade (12% max.)
 Slope 2% max.
 P.C. concrete driveway, min. thkn. as shown, or as dir.
 Curb type var. (See general note 4)
 1/4" preformed filler
 Finish grade (2% normal)
 Slope varies (2% normal)
 Driveway lip exposure 0" norm. (2" max.)
 Gutter line
 Thkn. 8"

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 Gutter line
 Thkn. 8"

NOTE: The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

LEGEND:
 Slope 2% max.
 Slope 0.33% (1":12") max. (Ramp length 15' max.) (See general note 12)
 W Width of driveway
 E Curb exposure
 Driveway pay limit (If monolithic, include adjacent curb)

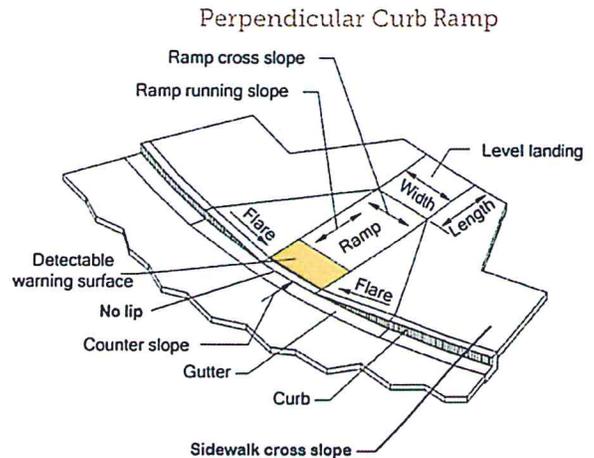
NOTE: This drawing is to be used by local agencies to assist them in the design of driveways on their facilities.

DATE: 23-JUL-2012
PROJECT: OREGON STANDARD DRAWINGS
DESCRIPTION: CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS M & N) LOCAL JURISDICTIONS
SCALE: AS SHOWN
DESIGNED BY: [Redacted]
CHECKED BY: [Redacted]
DATE: 2008

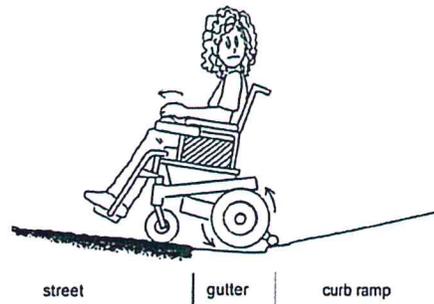
Summary of Baker City Standards and ADA Requirements for Curbs, Sidewalks, and Access Ramps

ADA Requirements - General

- Max. sidewalk cross slope = 2%
- Max. ramp cross slope = 2%
- Max. sidewalk running slope = 5%
- Max. ramp running slope = 8.3% or 1:12
- Max. flare slope = 10% when flare is adjacent to sidewalk. Flares adjacent to planters can be steeper than 10%.
- Level landing at top of ramp (48"x48" min). Landing slope = 2% max. in any direction
- Min. width of ADA path = 48" (5' preferred)
- Low curb flush with AC (zero lip)
- Truncated dome adjacent to back of curb



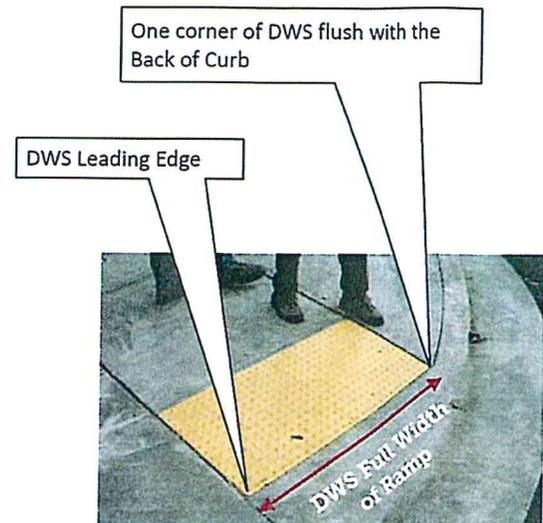
- The transition from ramps to the gutter or street should be flush with no lip.
- Lips at access ramps create tripping hazards for the visually impaired and can cause some wheelchairs to become stuck.



- Where possible, the max. counter slope at the bottom of the ramp should be 5%.
- The max. grade change within a 2' horizontal distance should not exceed 13.3%.
- In retrofits, this sometimes cannot be achieved due to the slope of the existing roadway.

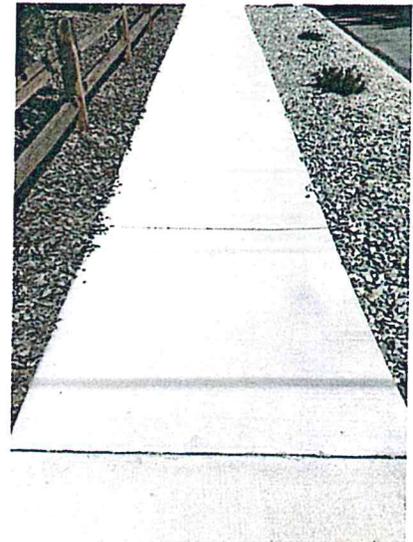


- The detectable warning surface (truncated dome panel) should be located within the bottom 2' of the ramp adjacent to the back of low curb.
- At a radius, the DWS should be oriented perpendicular to the ramp with the nearest leading edge flush with back of curb. The furthest leading edge should be no further than 5' from the back of curb.



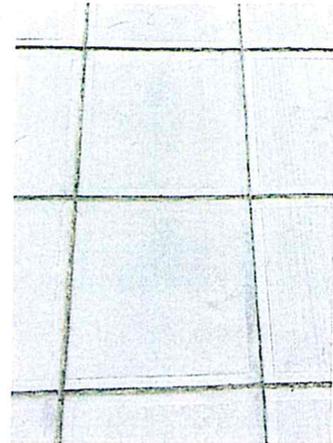
Baker City Standards - Sidewalks

- Typical width = 5' in residential zones and 6' in commercial zones or the historic district.
- Setback S/W's are typically located 1' off of property line.
- Slope sidewalk toward the street at 1%-2% (form at 1.5% to allow some margin of error during pour).
- **For setback sidewalks, set the surface elevation at 2% above top of high curb.**
- Standard sidewalks: Install tooled contraction joints every 5' for 5' wide sidewalks and every 6' for 6' wide sidewalks.
- There is no smooth edge next to the tooled joint in standard sidewalks.
- Sawcut joints are not allowed.
- **Light broom finish perpendicular to direction of traffic.**



- **Historic district:** Install tooled contraction joints in a 2' square pattern with 1-1/2" wide smooth unbroomed edge.
- Texture all sidewalks with a light broom finish perpendicular to the direction of foot traffic and then trowel in the smooth edge.
- Standard section (all sidewalks) is **4" min. concrete on 4" min. aggregate base¹.** Behind driveways the min. sidewalk section is **6" concrete on 6" aggregate base.**

¹Required by City Engineer as of 2017



Baker City Standards - Sidewalk Ramps

- Whenever possible, the width of the ramp should match the width of the connecting sidewalk.
- The sides of the ramp and tooled edges of the low curb should align with the connecting sidewalk.
- At radius returns, there should be a min. 12" long high curb between the ramps. The high curb does not need to be full height if that would cause the curb flares to exceed 10%.
- Construct low curb for the full width of the ramp with tooled joints on each side.
- Low curb should be flush with the adjacent gutter or asphalt.
- Best practice is to form ramps at 7%-7.5% max. to allow some margin of error.



