# 3.2C Sidewalk surface design 

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devices, and people using walkers, crutches, walking canes, and strollers.


## SIDEWALK SURFACE DESIGN

The pedestrian clear zone should provide a safe and accessible surface for walking, rolling wheelchairs or other assistive devices, and people using walkers, crutches, walking canes, and strollers. Sidewalks should be level, firm, stable and slip resistant and avoid excessive vibrations for wheelchair users.

## DESIGN CONSIDERATIONS



## B. Material

## C. Surface discontinuities

The Special Provisions for the Construction of Concrete Sidewalks, Curb and Cutter, Alleys and Drive Approaches and latest addition of Standard Supplemental Specifications for the Construction of Public Infrastructure provide the detailed standards for sidewalk surface design.

1. The standard sidewalk material in Minneapolis is concrete pavement. Enhanced paving can be considered in rare situations, although is generally not used because of negative impacts on ADA access and maintenance.
2. Typical sidewalk panel sizes are $6 \times 6$ feet. Larger panel sizes generally ensure a more comfortable and accessible surface for all pedestrians. Smaller decorative pavers can be considered on the edges of the pedestrian clear zone in rare situations; ADA accessibility and maintenance challenges must be considered.
3. Surface discontinuities (from manholes, valve covers, etc.) may not exceed $1 / 2$ inch maximum (openings should not permit the passage of a $1 / 2$ inch sphere), and vertical discontinuities between $1 / 4$ and $1 / 2$ inch maximum must be beveled with a slope not steeper than 50 percent (PROWAG R302.7.2), as shown in Figure 3.2C.1.
4. $\mathrm{Mn} / \mathrm{DOT}$ standard specifications require that joints between panels be formed with a $1 / 4$ inch rounding tool and that sidewalk surfaces be constructed with a maximum 3/16 inch variation in surface over a 10 foot plane.

Figure 3.2C.1: Vertical surface discontinuities


Source: PROWAG 2011
D. Grates that serve as walkable surface

## E. Sidewalk grades

