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## INTRODUCTION

Curb extensions, also known as bump outs, are an extension of the sidewalk zone or curb line into the roadway zone at intersections or mid-block locations. Curb extensions are intended to increase safety, calm motorized traffic, and create additional space for pedestrians and the boulevard and furnishing zone.

Curb extensions provide the following benefits:

- Improved sightlines between vehicles and pedestrians.
- Reduced pedestrian crossing distance, thereby reducing pedestrian exposure to potential vehicle conflicts.
- Additional pedestrian queuing space before crossing.
- Can slow vehicle turning speeds by decreasing turning radii and visually narrowing the roadway.
- Additional corner space to fit two perpendicular curb ramps per corner, utilities and traffic control, furnishings, greening, transit facilities, bicycle parking, and sidewalk cafes.
- Additional pervious space for green stormwater infrastructure.
- Restrict cars from parking too close to the intersection and inhibiting sightlines.

Figure 3.7D.3:
Curb extensions


## DESIGN CONSIDERATIONS



D. Turning Movements
F. Bikeway considerations

1. Curb extensions may complicate the installation of future bike facilities and should be designed and implemented with consideration for the existing and proposed AAA bike network.
2. Curb extensions may be constructed or retrofitted to transition onstreet bikeways from street to sidewalk-level behind the curb by employing bicycle-specific slip ramps up and down stream of the intersection. This should be prioritized when rebuilding signalized intersections or quadrants along AAA bike routes with existing onstreet bike lanes.

On neighborhood greenways: bicycle boulevards where bikes travel in mixed flow with vehicles, curb extensions should not force cyclists to merge unexpectedly with cars at the end of the block.
G. Sightlines and pedestrian clear zone
H. Maintenance
I. Drainage
J. Transit
K. Delineator curb extensions

Street furniture, trees, plantings, or other amenities included in the curb extension area should not impede sightlines or redirect the pedestrian clear zone at intersections. See sidewalk visibility guidance for more details.

Curb extensions need to be carefully designed to drain properly and to avoid ice, leaf, and road debris buildup.

Curb extensions may impact existing catch basin locations, underground utilities, and curbside uses. These impacts should be evaluated during the scoping process as they may increase costs significantly.
For transit related curb extension design considerations, please reference transit stops.

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[^0]:    Low-cost curb extensions can be implemented using delineators in street retrofit project

