

# Street Design Standards Update

Plan Commission workshop

Aug 12, 2020



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# What are we doing? And Why?

- Update to Chapter 3 of the <u>Design Standards</u>
- Also updated to SMCs mostly Chapter 17
- Used by city staff and the development community

Balancing many interests and comments with the latest draft.



### Schedule for Completion

- 06/24/2020 Design Review Board
- 07/21/2020 Plan Commission Transportation Subcommittee
- 07/22/2020 Plan Commission workshop
- 07/30/2020 Issue updated draft (version 10)
- 08/11/2020 Plan Commission Transportation Subcommittee
- 08/12/2020 Plan Commission workshop
- 08/24/2020 Public Infrastructure, Environment, and Sustainability Committee
- 09/09/2020 Plan Commission hearing
- 09/26/2020 Plan Commission hearing (if continued)
- October 2020 City Council workshops and hearing





**Street Characterization** 

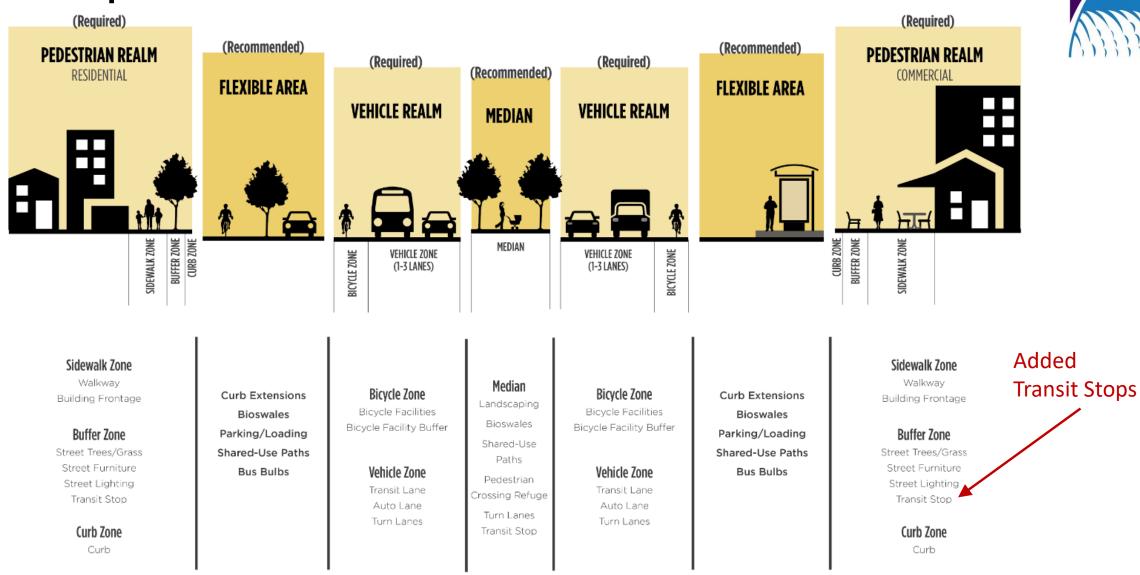


Characterization = Classification + Context

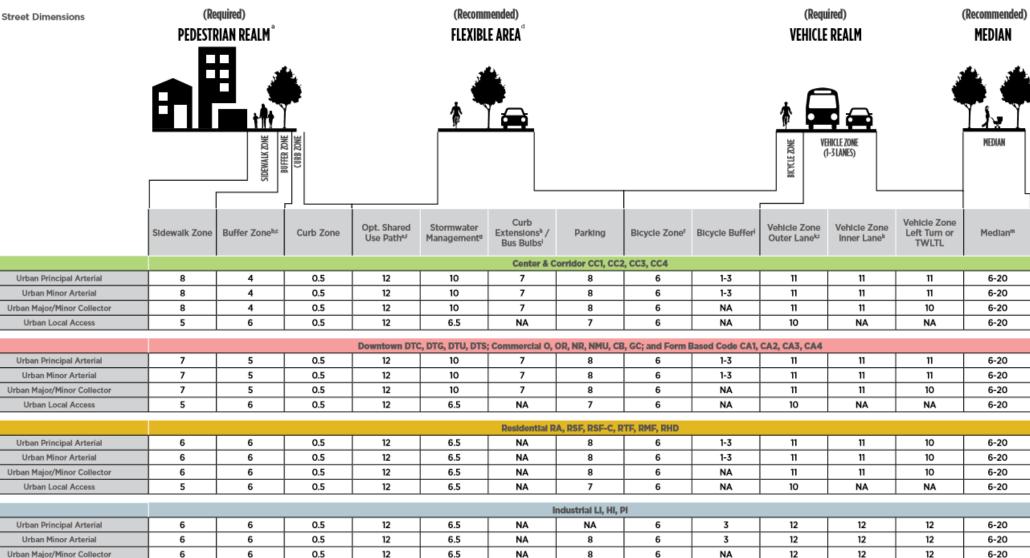
- Classification
  - Principal, Minor, Major or Minor Collector, Local
- Context
  - Based on Land Use Zoning



### Components of the Street







NA

7

A. In the case of hillside development, defined as low-density development under 10 units per acre, ensure streets are built with 5-root sidewalks on both sides of the street plus an optional 6.5-foot bio-infiltration swale. On street parking is required on one side of the street. See SMC 17H.010.110 for exceptions.

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12

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B. Per SMC 17C.200.050-1, a tree-planted continuous buffer requires a 5-foot minimum width for commercial zones. For residential and industrial zones, the minimum increases to 6 reet. Alternatively, a narrower buffer may be used in select zones if tree vauits are implemented.

5

C. Buffers in commercial areas may be planted or concrete. When stormwater disposal is a governing concern, consideration should be given to use pervious surfaces

D. The flexible area includes a menu of options which are chosen based on what makes most sense according to city plans, environmental responsibilities, and context. In some cases, none of these will fit within the project. Only in very rare cases will more than one fit - for instance, a parking iane plus bio-retention swale.

E. In places designated for shared-use paths, the path can take the place of the sidewalk zone.

Urban Local Access

E. Consult Master Bicycle Plan for guidance on facility type and selection. Possible facilities include bike lanes, buffered bike lanes, and parking protected bike lanes (cycle tracks). Bicycle facilities may operate in the Flexible Area or the Vehicle Realm. Bicycle boulevards and shared roadways are possibilities on Urban Local Access streets.

G. Consult the Spokane Regional Stormwater Manual and Eastern Washington Low Impact Development Guidance Manual for desired locations for stormwater facilities. The stormwater catchment area must meet the required volume generated by the planned impervious area.

NA

H. intersections and mid-block crossings, provide curb extensions into the parking lane.

6

I. On transit corridors, use bus builts if space allows to ease boarding, reduce sidewalk congestion, and allow buses to easily re-enter traffic. This should typically be done only if there is a second lane for vehicles to continue around stopped buses.

11

NA

NA

6-20

J. "High Traffic" and "Medium Traffic" lane routes on the Master Bicycle Plan should include buffers. Separation buffer between bike lane and vehicle lane should be implemented via parallel lane edge stripes with a periodic cross-hatch.

K. When constraints are prohibitive, consider 10-foot iane width as the minimum

L. Travel lane includes the width of the gutter pan, if integral curb and gutter is used.

M. Medians less than 6 feet wide are considered traffic channelization. A pedestrian refuge is a raised median with a minimum width of 6 feet. Wider medians may be implemented in the context of boulevards.

### Arterial ROW Widths - SMC 17H

Table 17H.010-1 Arterial Right-of-way Widths						
	Right-of-way Width	Street Width				
	Minimum <sup>1</sup>	Typical	Curb to Curb			
ARTERIAL (all types)						
2 lanes <sup>2</sup>	60 ft	60 ft – 80 ft	Varies <sup>3</sup>			
3 lanes <sup>2</sup>	65 ft	65 ft – 80 ft	Varies <sup>3</sup>			
4 lanes <sup>2</sup>	75 ft	75 ft – 100 ft	Varies <sup>3</sup>			
5 lanes <sup>2</sup>	90 ft	80 ft – 100 ft	Varies <sup>3</sup>			
6 lanes <sup>2</sup>	100 ft	90 ft - 110 ft	Varies <sup>3</sup>			
7 lanes <sup>2</sup>	100 ft	90 ft – 125 ft	Varies <sup>3</sup>			

#### Notes:

<sup>1</sup>Additional right-of-way may be required if roadside swales are used to control storm drainage, for bike lanes if designated on the plan, or for wider sidewalks depending on the zoning.

<sup>2</sup>Lanes can be through lanes, turn pockets, or continuous TWLTL.

<sup>3</sup>Curb-to-curb width varies depending on street features including number of lanes, on-street parking, bike lane, median and turn lanes. See Design Standards for more detail.



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### Overly wide local streets





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### Local Access Widths - SMC 17H



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for all :	for all zoning Local Access Right-of-way and Street Widths							
1			Minimum Right-of-way Width <sup>1</sup>		Minimum Street Width			
			Sidewalks in ROW	Sidewalks on Easements	Curb to Curb			
	LOCAL ACCESS							
	Local		60 ft.	50 ft.	36 ft.			
	Residential Low D	ensity <sup>2,3</sup>	52 ft.	42 ft.	28 ft.	Increase from		
	Hillside Developn	nent <sup>3,4</sup>	41 ft.	36 ft.	28 ft.	- 27' to 28' for fire		
	Cul-de-sac (radius	5)	56 ft.	51 ft.	50 ft.			
	Alley <sup>5</sup>		20 ft.	20 ft.	12 ft.	consistency		
	Notes: <sup>1</sup> Additional right-of-way may be required if roadside swales are used to control storm drainage.							
		appropriate only in low density (four to ten units per acre) residential neighborhoods. Adequate emergency vehicle access and staging areas must be provided as						
	<sup>3</sup> Parking is allowed on one side of the street only. Refer to <u>SMC 17H.010.120</u> for on-street parking requirements. Allow 28' (one-sided parking) for							
	<sup>4</sup> Refer to <u>SMC 17H.010.110</u> for more information.							

<sup>5</sup>Alleys do not require sidewalk or curb. The widths shown apply to right-of-way and pavement width.

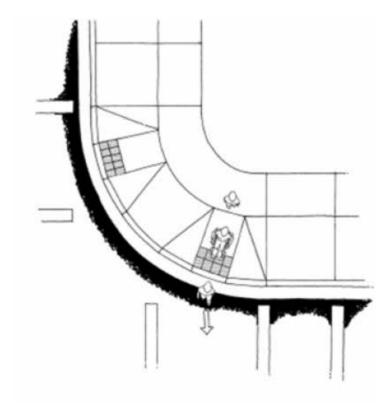
all low density residential



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# Diagonal Ramps are **NOT** ideal





At diagonal curb ramps, wheelchair users cross in different location than other pedestrians. With 2 separate ramps pedestrians cross at the same location.

### Curb Ramps – example

- Historic rock walls
- Narrow adjacent sidewalk
- Right-of-way constraints
- Stormwater system







# Curb Ramps – Design Standards



Revised language

In all new construction and reconstruction projects placement of two ADA compliant curb ramps per corner is required. Ramps should be aligned such that the tactile texture "points" to the opposing ramp across the street. The use of two ramps per corner is most effective where sidewalks are separated from the roadway by a buffer.

For <u>retrofit or preservation work the priority is to use two curb ramps per</u> <u>corner</u>. However, the use of single curb ramps per corner may be appropriate when relocation of utilities would be required to accommodate dual ramps, <del>where adjacent sidewalks exist</del>, topographic constraints, rightof-way constraints or intersections with small curb radii.



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### Curb Ramps – SMC edits

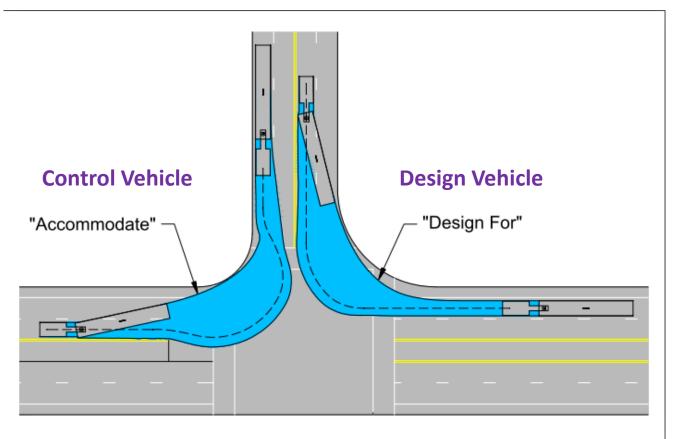


### 17H.010.200 Curb Ramps

B. Not less than two curb ramps per lineal block shall be constructed on or near the crosswalks at intersections or other convenient locations approved by the director of engineering services. Two curb ramps are required on each corner unless utilities, topography, right-of-way or other existing conditions make two ramps infeasible.

Revised language

### **Design Vehicles**





Suggestion to look at slower turning speeds.

### Image: City of Seattle



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### **Design Vehicles**

		., INDUSTRIAL <sup>1</sup> , ND GC	CC, DOWNTOWN, FORM BASED CODE		
Street Type	Arterials <sup>2</sup>	Local	Arterials <sup>2</sup>	Local	
Design Vehicle (10% or more of ADT)	WB-40	SU-30	SU-30 & STA 40' bus	SU-30	
Control Vehicle (Infrequent Largest User)	WB-50	WB-50	Ladder truck	Ladder truck	

<sup>2</sup> Intersections of arterials with a local street should use the local street design vehicle unless nearby land uses dictate the need to accommodate a larger vehicle.

30'



### **Control Vehicle (infrequent)**



<sup>1</sup> Urban streets zoned for industrial uses may require larger design and control vehicles.

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### **Design Speeds**

	RESIDENTIAL, INDUSTRIAL, CB AND GC				CC, DOWNTOWN, FORM BASED CODE				
Street Type	Principal Arterial	Minor Arterial	Collector	Local	Principal Arterial	Minor Arterial	Collector	Local	Need to update this to cover 20 mph zones
Design Speed = Posted Speed = Target Speed (mph)	30-35	30-35	30	25	30	25-30	25-30	25	



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## Clear Zone

- Current policy is 10' from travelled way
- New policy based on speed
  - 20-35 mph: 1.5' for existing objects, 4' for new
  - 40+ mph: 6' for existing objects, 10' for new
- Exemptions include signals, lighting, parking meters, ITS equipment, street trees, planter boxes, transit shelters, bollards, benches, kiosks.
- Planters used in the street must be fixed in place or a frangible design





### Added new section

## Place-making Language

- Artwork
- Landscaping
- Historic sidewalk patterns
- Decorative tree grates and manhole covers
- Pedestrian lighting
- Interpretive features
- Scenic overlooks











17A.010.070 Delegation of Administration (downloaded here)

17A.020 Definitions (downloaded here) Added new definitions

17C.200 Street Tree Requirements, 12.01 and 12.02 (downloaded here)

17H.010 Engineering Standards (<u>downloaded here</u>) Several additional changes to match street standards





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