

Street Design Standards Update

Plan Commission Hearing

Sept 23, 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
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- Oct-Nov 2020 City Council workshops and hearing





Street Characterization

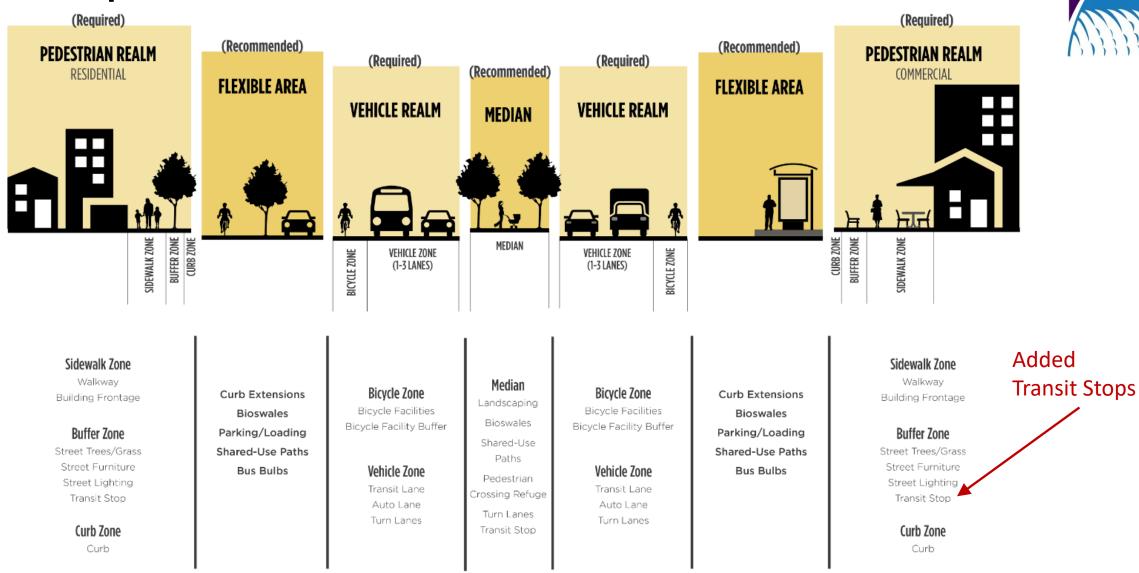


Characterization = Classification + Context

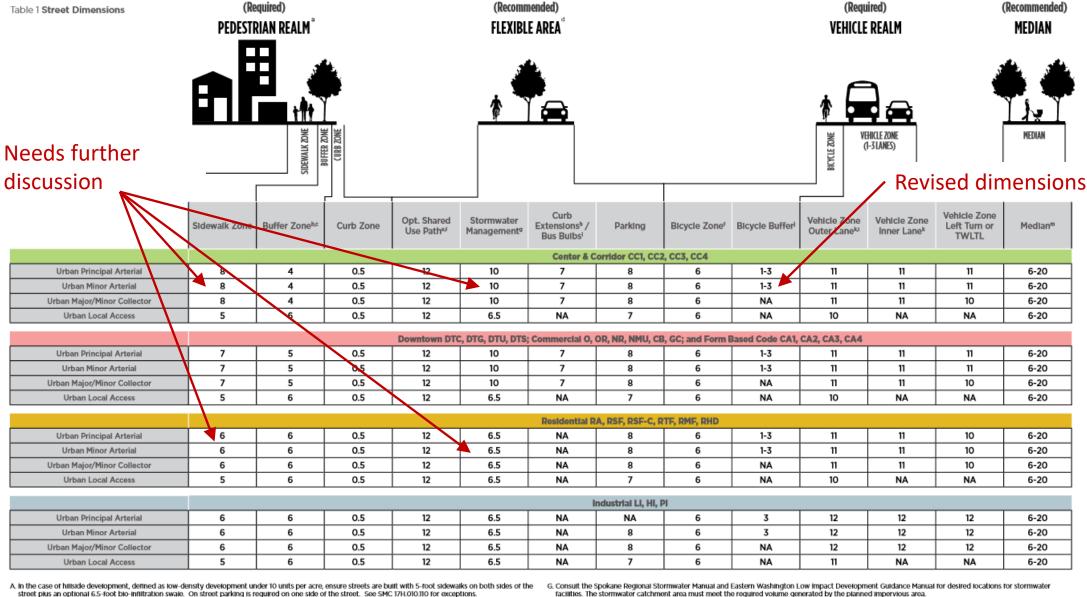
- Classification
 - Principal, Minor, Major or Minor Collector, Local
- Context
 - Based on Land Use Zoning



Components of the Street







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 feet. Alternatively, a narrower buffer may be used in select zones if tree vaults are implemented.

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 lane plus bio-retention swale.

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

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.

facilities. The stormwater catchment area must meet the required volume generated by the planned impervious area.

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

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.

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 ¹	Typical	Curb to Curb			
ARTERIAL (all types)						
2 lanes ²	60 ft	60 ft – 80 ft	Varies ³			
3 lanes ²	65 ft	65 ft – 80 ft	Varies ³			
4 lanes ²	75 ft	75 ft – 100 ft	Varies ³			
5 lanes ²	90 ft	80 ft – 100 ft	Varies ³			
6 lanes ²	100 ft	90 ft - 110 ft	Varies ³			
7 lanes ²	100 ft	90 ft – 125 ft	Varies ³			

Notes:

¹Additional 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.

²Lanes can be through lanes, turn pockets, or continuous TWLTL.

³Curb-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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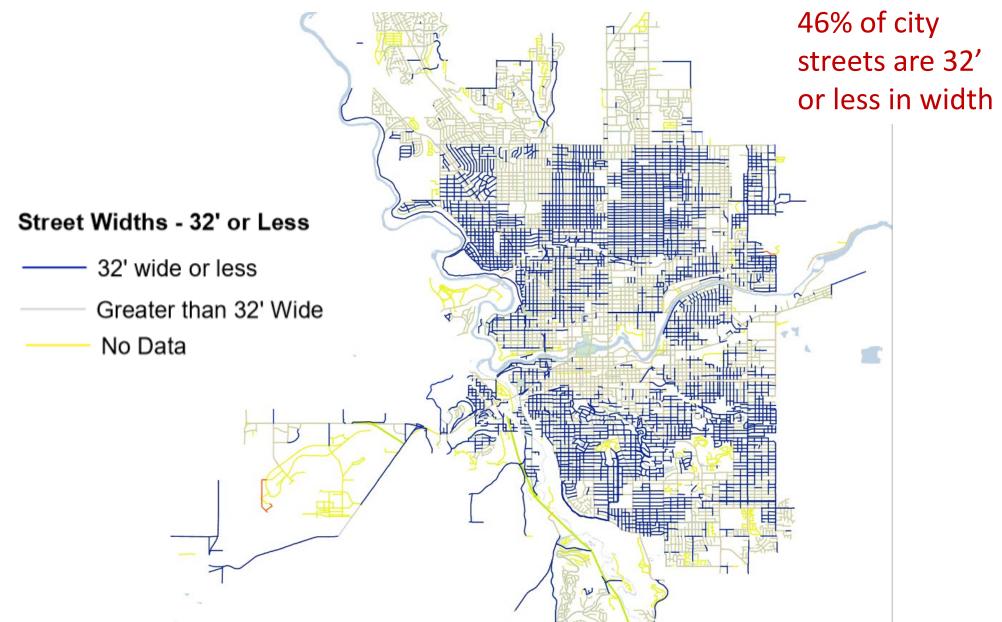
Overly wide local streets





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Existing Streets at 32' or less



Local Street survey of other "snowbelt" cities

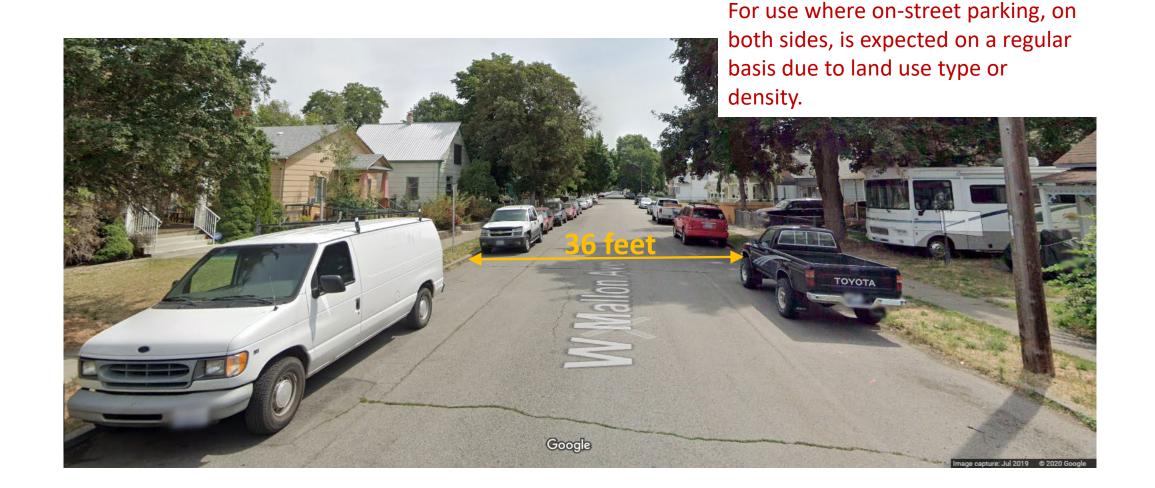
City	Minimum Width for Parking on Both Sides			
Coeur d'Alene, ID	32'			
Post Falls, ID	32'			
Liberty Lake, WA	29'			
Spokane Valley, WA	30' above 200 ADT			
Spokane County, WA	32'			
Salt Lake City, UT	30' in single-family zone, 36' for multi-family			
Madison, WI	32'			
Denver, CO	32'			
Provo, UT	30'			
Tacoma, WA	28'			
Notes: Street width research provided by City of Spokane Planning staff.				

The City of Choice

Residential standard street width



Residential high density street width



Local Access Widths - SMC 17H

Table 17H.010-2 Local Access Right-of-way and Street Widths						
	Minimum Right-of-way Width ¹	Minimum Street Width				
	Sidewalks in ROW Sidewalks on Easements		Curb to Curb			
LOCAL ACCESS						
Commercial / Industrial	60 ft.	50 ft.	36 ft.			
Residential High Density ²	60 ft.	50 ft.	36 ft.			
Residential Standard ³	56 ft.	46 ft.	32 ft.			
Residential One-side Parking ⁴	51 ft.	41 ft.	27 ft.			
Hillside Development ^{4,5}	40 ft.	35 ft.	27 ft.			
Cul-de-sac (radius)	56 ft.	51 ft.	50 ft.			
Alley ⁶	20 ft.	20 ft.	12 ft.			

Notes:

¹Additional right-of-way may be required if roadside swales are used to control storm drainage.

²Appropriate in areas where parking on both sides of the street is expected on a regular basis, such as apartment complexes. Refer to SMC 17H.010.070 for more information.

³Appropriate in areas where homes have street-facing garages and driveways for parking. On-street parking is used by visitors and extra vehicles. Refer to SMC 17H.010.070 for more information.

⁴Parking is allowed on one side of the street only. Refer to <u>SMC 17H.010.120</u> for on-street parking requirements.

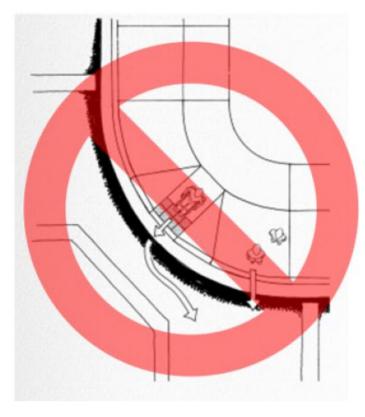
⁵Refer to <u>SMC 17H.010.110</u> for more information.

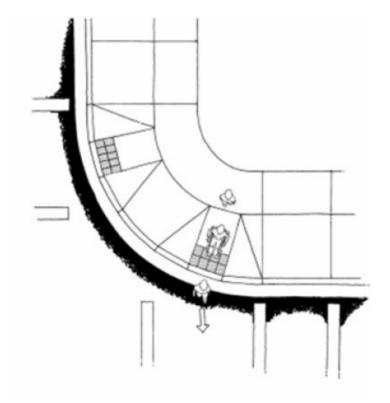
⁶Alleys do not require sidewalk or curb. The widths shown apply to right-of-way and pavement width.



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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



In all <u>new construction and reconstruction projects placement of two ADA</u> <u>compliant curb ramps per corner is required</u>. Ramps should be aligned such that the running slope (and edge of curb if used) is parallel to the crosswalk markings and direction of pedestrian travel.

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, topographic constraints, right-of-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 and Control Vehicles



Control Vehicles



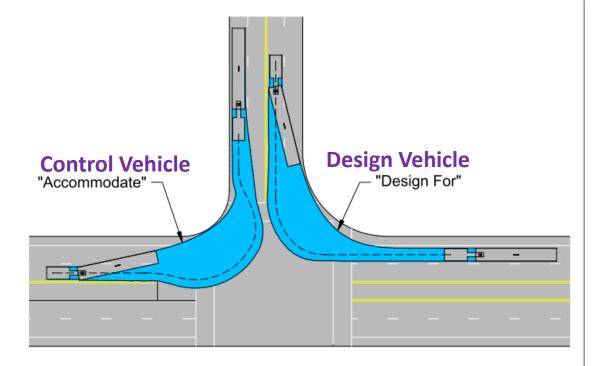
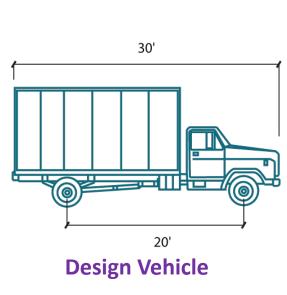


Image: City of Seattle





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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	Modified to include 20 mph zones
Design Speed = Posted Speed = Target Speed (mph)	30-35	30-35	30	25	20-30	20-30	20-30	20-25	



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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.
- Traffic signs, fire hydrants, residential mailboxes must be a breakaway/frangible.
- Exempts planter boxes, bike racks transit shelters, other street furniture but desired placement is 1.5' from face of curb.
- Planters used in the street must be fixed in place or a frangible design





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) Removed due to planned update

17A.020 Definitions (<u>downloaded here</u>)

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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• Other slides if needed