



Hardened Center Line

Pedestrian Master Plan and Vision Zero

Overview

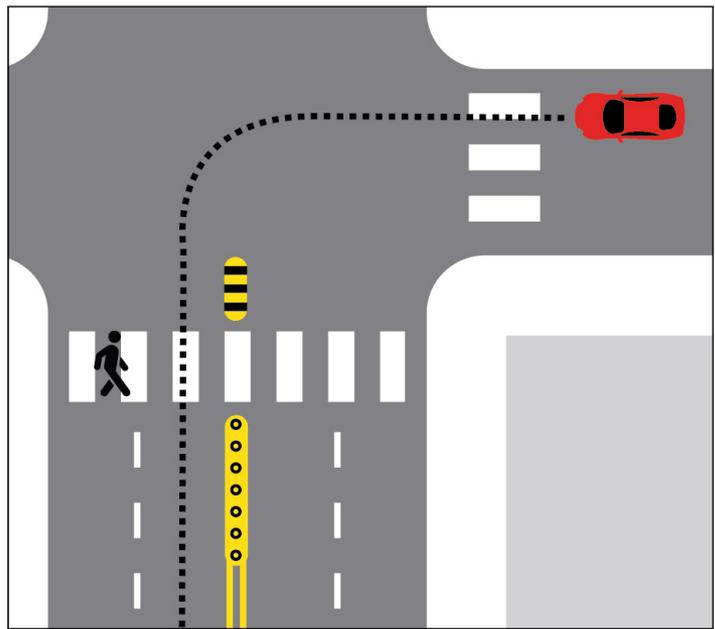
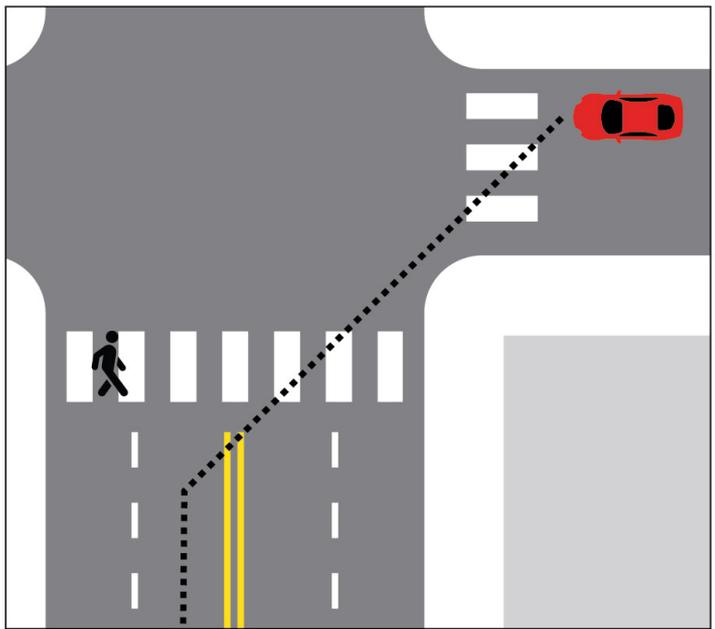
- What
- Why
- Where
- When
- Feedback

What is a Hardened Center Line?

- Low-profile speed bump
- On the centerline
- And, where feasible, in front of the crosswalk

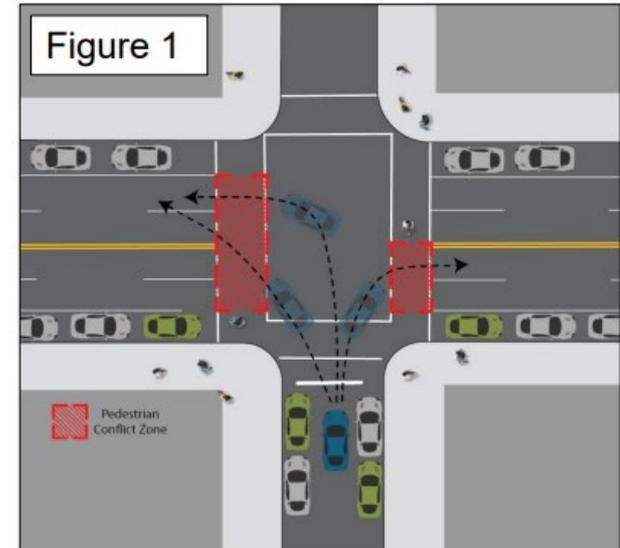


What is a Hardened Center Line?



Why do a Hardened Center Line?

- Encourages more square turns
- Slows left turning speeds
- Improves visibility for pedestrians using the crosswalk



Pedestrians in the crosswalk can disappear behind the vehicle's A-pillar

Why do a Hardened Center Line?

New York City

- Harp turns dropped by 78.9% if placed to the stop bar
- 100% if extending all the way to the crosswalk

Washington DC

- 20% reduction in left turn speeds

Portland

- Consistently reduces turning speeds by modest but potentially significant amounts
- “Noses” are approximately 50 percent more effective

Why do a Hardened Center Line?

“leading pedestrian intervals and hardened centerlines seem to have had an enormous effect on pedestrian safety in particular. From 2016 to 2017, we saw the biggest drop in pedestrian fatalities that I’ve ever seen.”

- Marco Conner, co-deputy director of New York City’s Transportation Alternatives (Schmitt, Right of Way 2020)

Where will SDOT install Hardened Center Lines?

High Priority Locations

- Pedestrian phase conflicts
- Evidence of minor, serious, or fatal collisions
- Adequate space for the “nose”
- Close to transit, schools, other pedestrian generators

Low Priority Locations

- Frequent transit turns
- Frequent freight turns
- Bike conflicts
- Tight turn radius

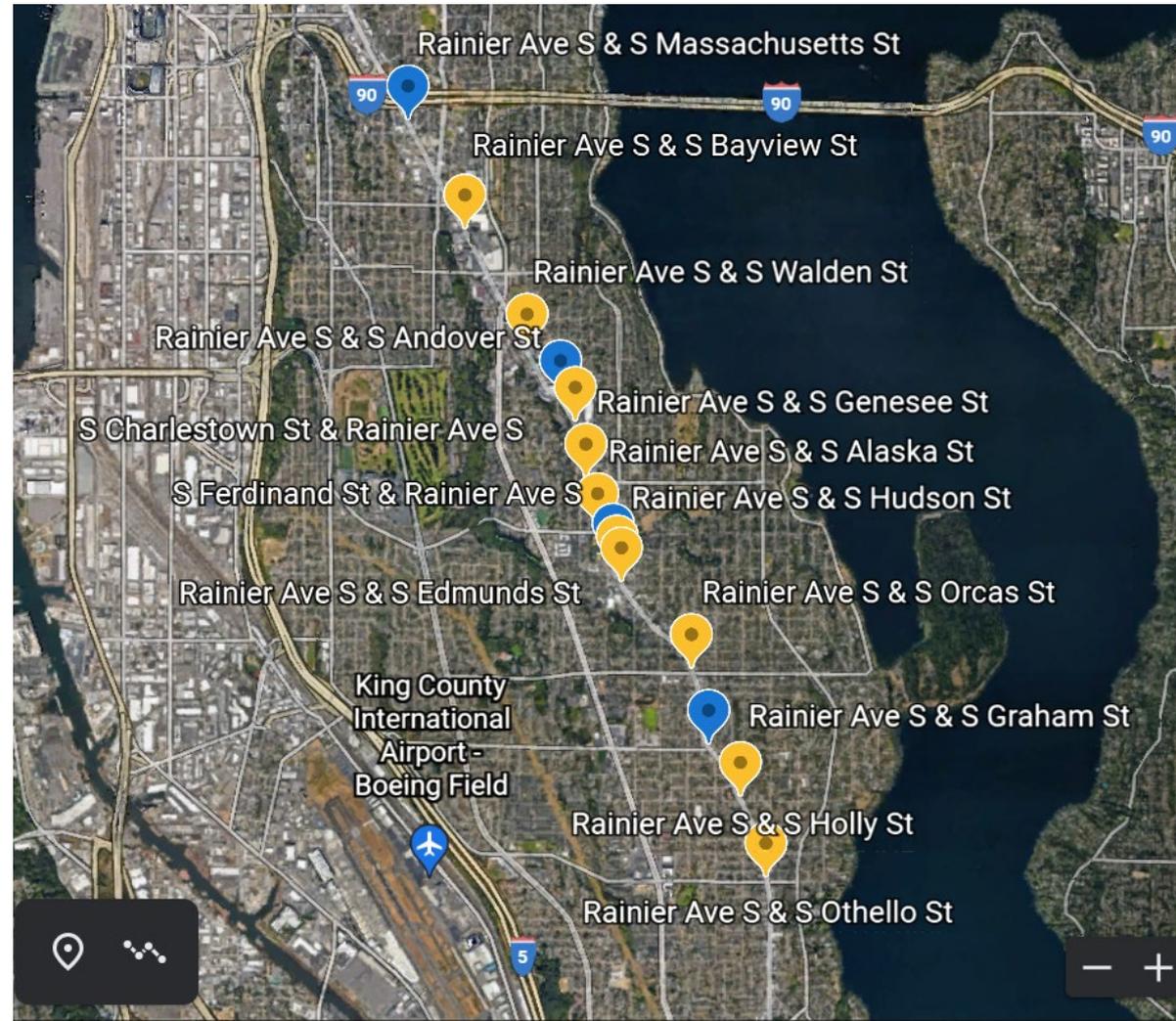
Not Sure

- Skewed Intersections

Where will SDOT install Hardened Center Lines?

Legend

- Phase 1 = Blue
- Phase 2 = Yellow



When will SDOT install Hardened Center Lines?

Rainier Phase 1: 2021/2022

Rainier Phase 2: Phase 1 + 2-3 months

Phase 3 (downtown, U District): 2022

Additional locations: Ongoing

Please provide feedback on the following

Should this tool be in the front or back of our toolbox? Or not at all?

What additional outreach should we do?

How should we prioritize locations?

What did we miss?

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