



Next Gen Bus Shelter Prototype Project

Design Commission Update
05.15.25



Agenda

- Background
- Shelter Family
- Prototype Location & Criteria
- Proposal
- Next Steps
- Discussion

Re-Envisioned Project

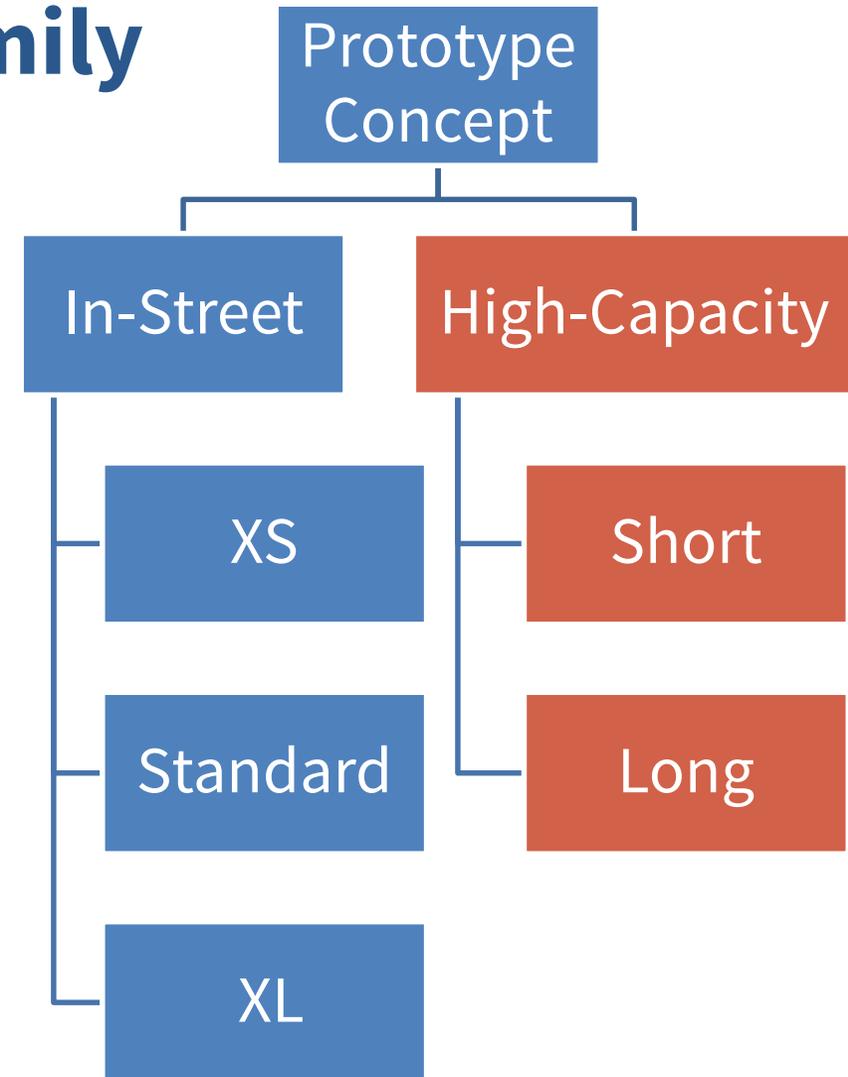


The purpose of this project is to design a new bus shelter prototype that could ultimately replace the existing 32-year old bus shelter design.

Last year, the project was paused and re-envisioned to broaden the scope to a shelter **family** to include high-capacity shelter options for use at transit centers as well as typical “in-street” shelters.

A Shelter Family

A bus shelter family will support consistency, system clarity and ease of maintenance at the varying levels of service.



Basis of Design: The Pavilion Concept

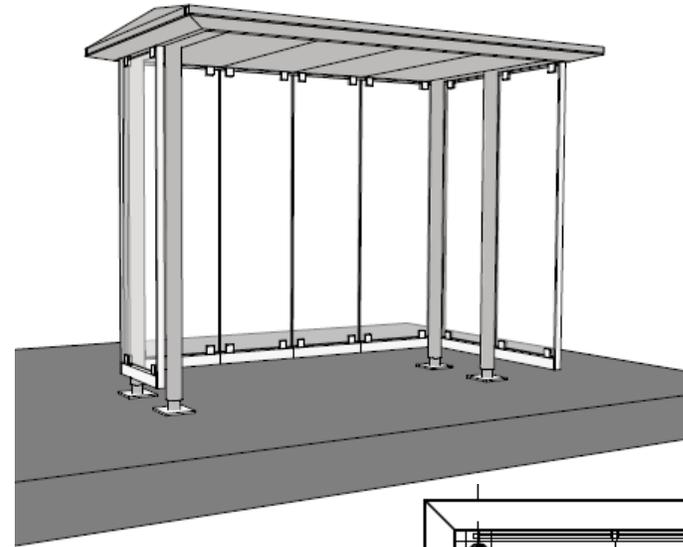


With Windscreens



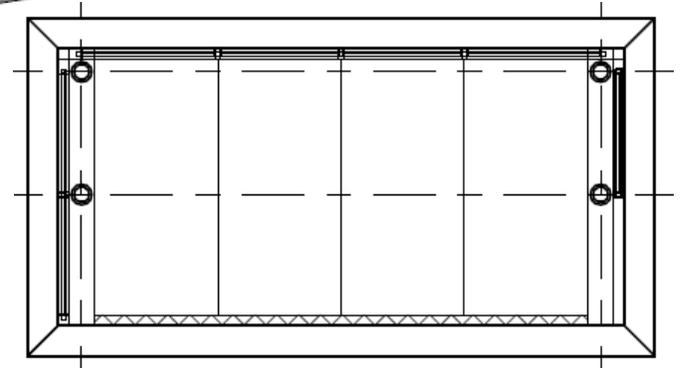
Without Windscreens

Pavilion XS

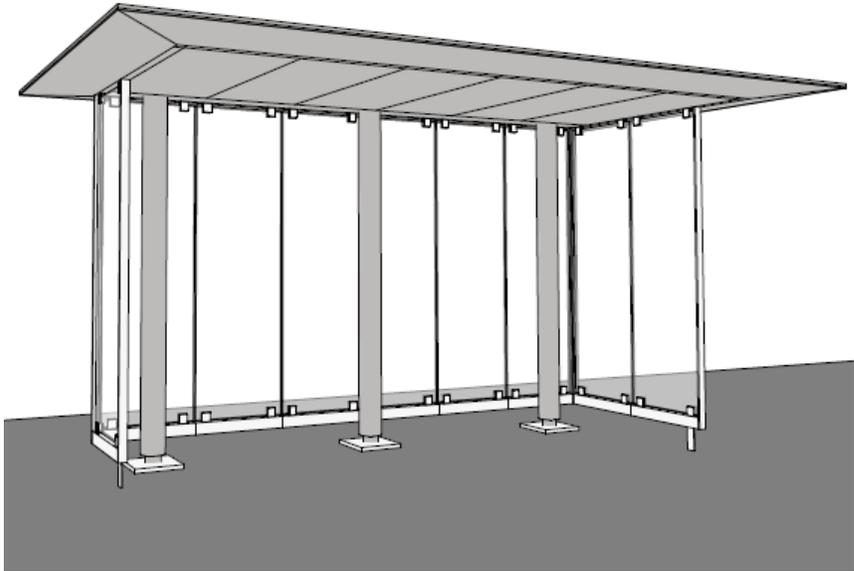


10'-02"

5'-6"

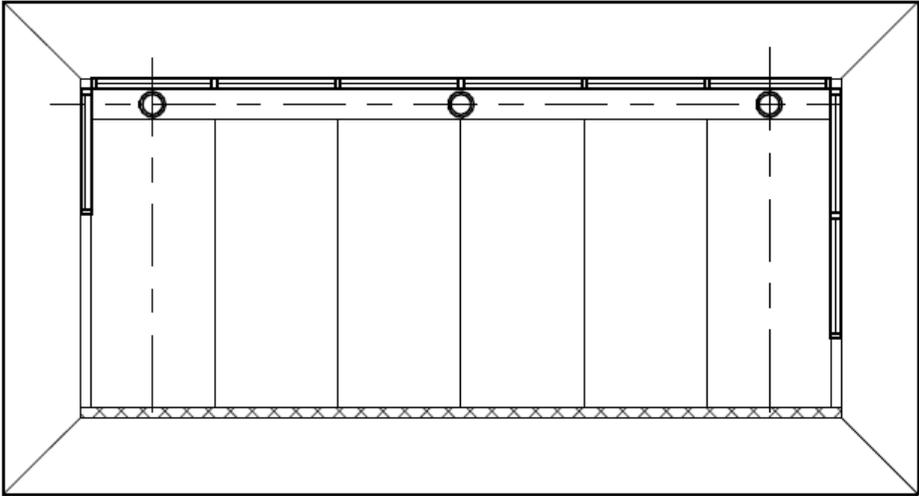


Pavilion XL



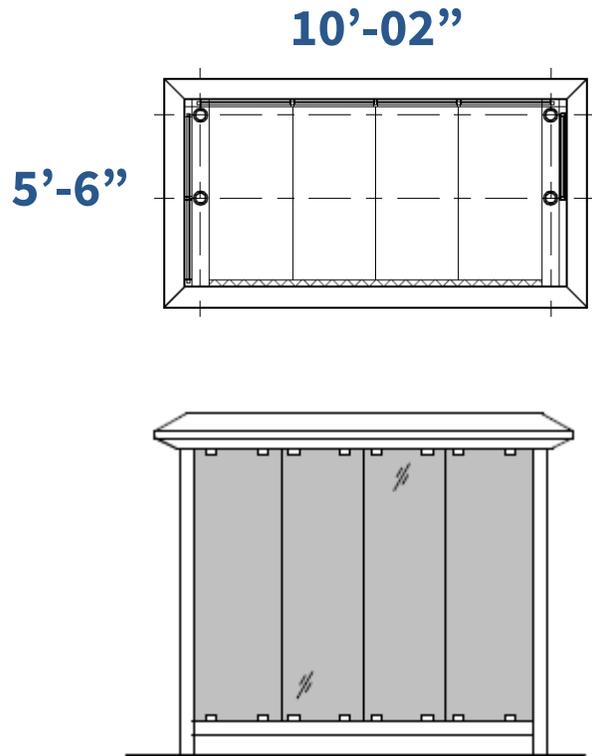
14'-10"

8'

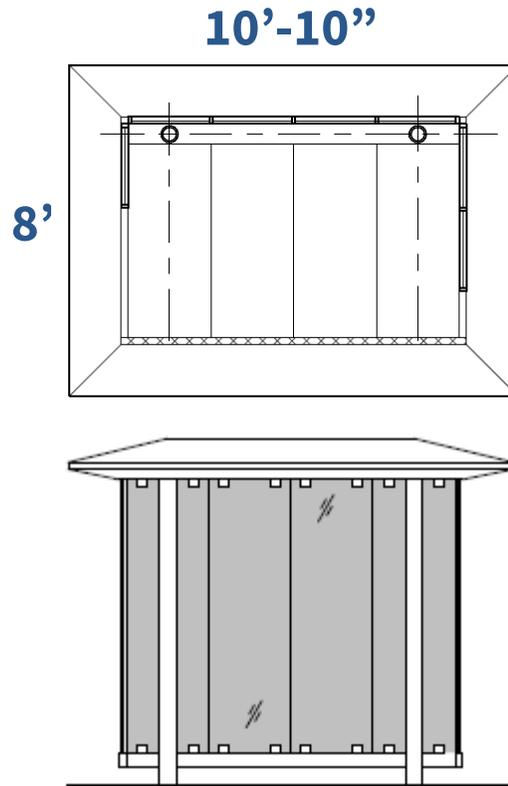


The In-Street Family

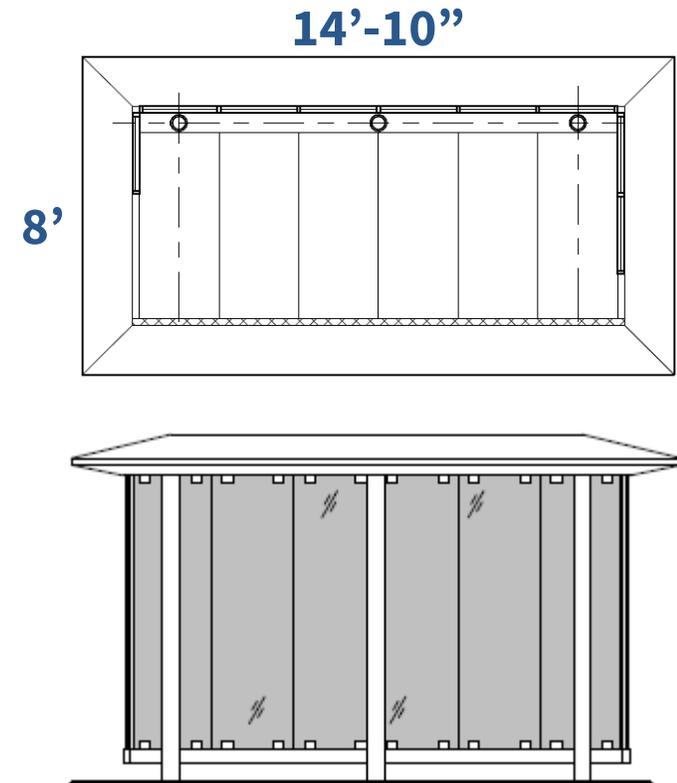
Pavilion XS (4-post)



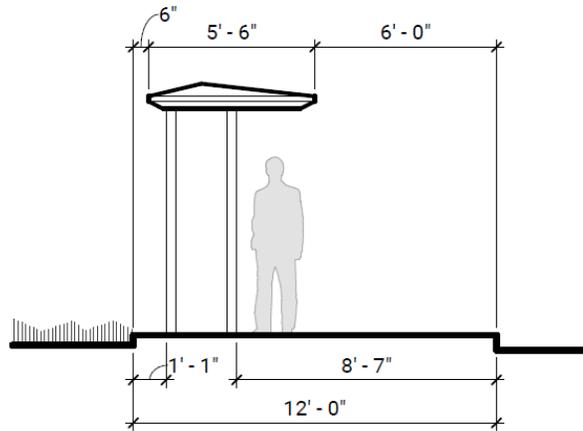
Pavilion (2-post)



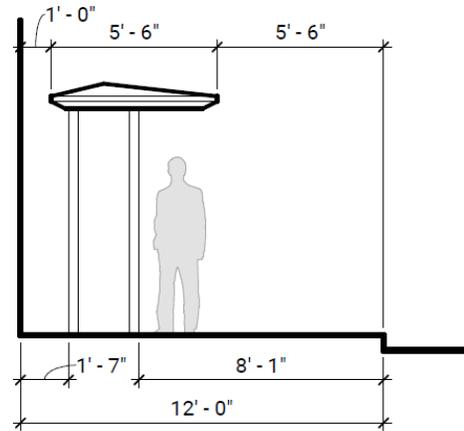
Pavilion XL (3-Post)



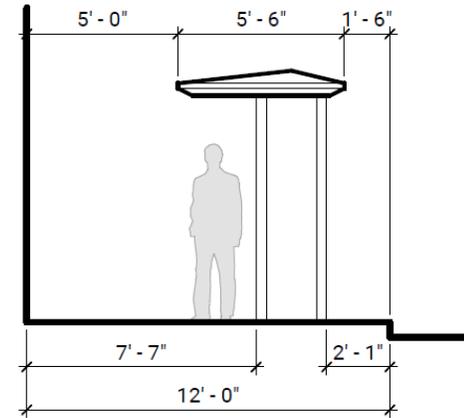
The In-Street Family – side elevation and clearance



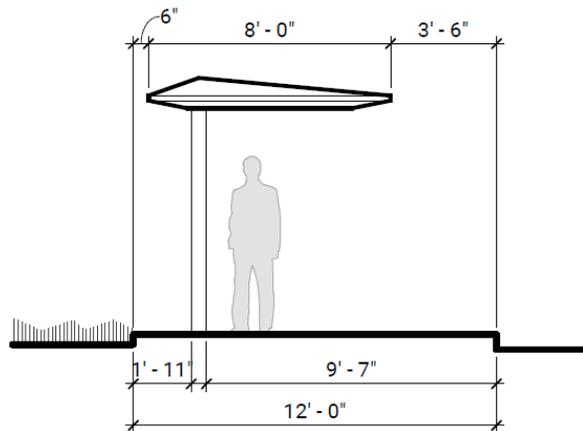
PAVILION - XS - SIDE ELEVATION
12'-0" SIDEWALK AT LANDSCAPING



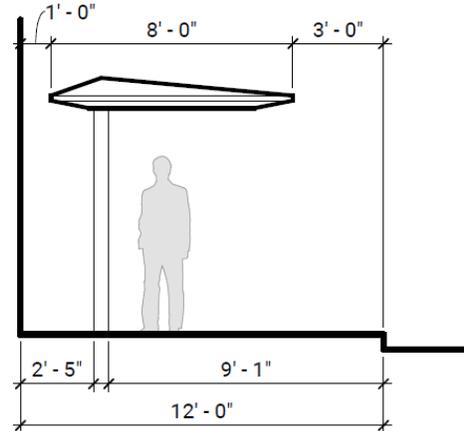
PAVILION - XS - SIDE ELEVATION
12'-0" SIDEWALK AT BUILDING



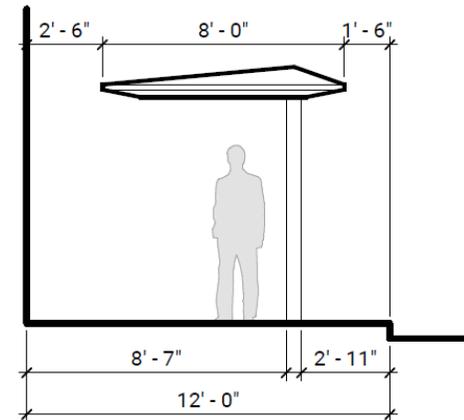
PAVILION - XS - SIDE ELEVATION
12'-0" SIDEWALK AT BUILDING



PAVILION - SIDE ELEVATION
12'-0" SIDEWALK AT LANDSCAPING



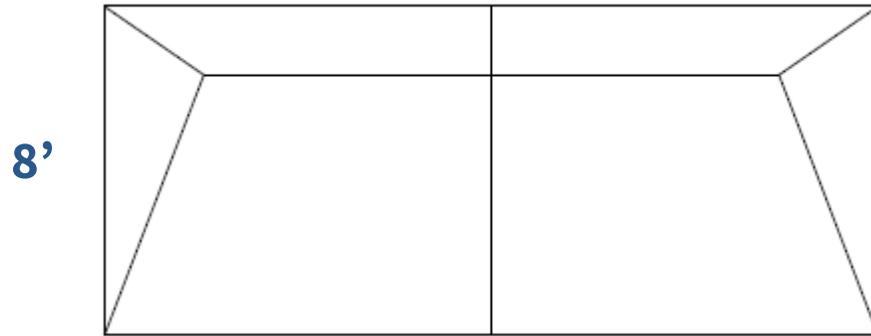
PAVILION - SIDE ELEVATION
12'-0" SIDEWALK AT BUILDING



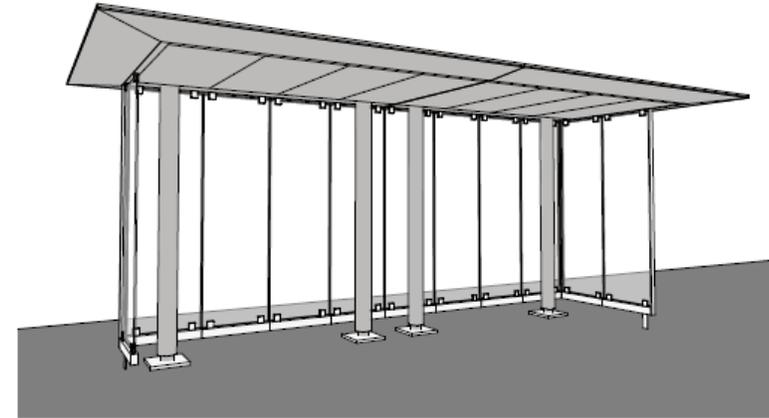
PAVILION - SIDE ELEVATION
12'-0" SIDEWALK AT BUILDING

The High-Capacity Family

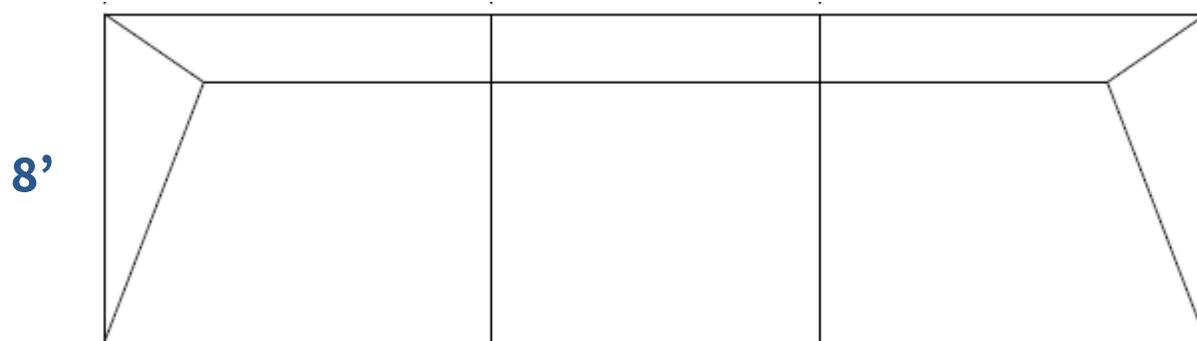
18'-10"



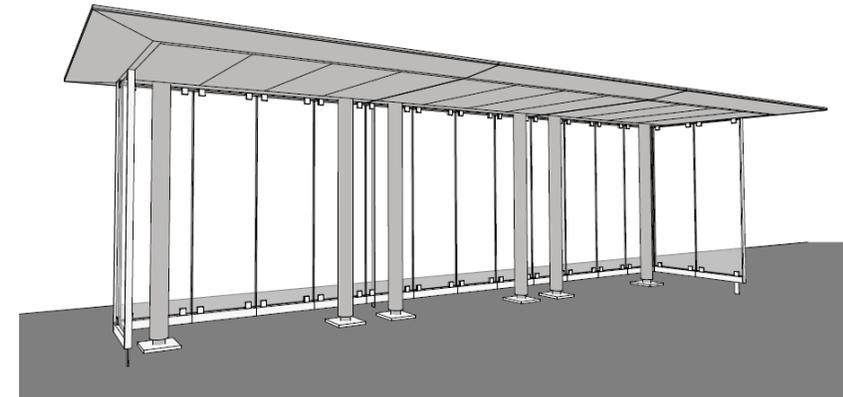
8'



26'-10"



8'



Prototype Locations & Criteria

- Existing permitted shelter locations
- Condition and age of existing amenities
- High or supportive ridership locations (also take lift ridership into consideration)
- Geographic distribution (in Portland)
- Opportunity for a range of attachment conditions (bolt, footing/thickened slab).
- COP/TM bus shelter siting agreement requirements, ADA access



Prototype Locations & Criteria (cont.)

Durability & Functionality

- Place some shelters in areas that typically endure higher levels of vandalism.
- Place shelters in areas with varying levels of natural light to test the effectiveness of the solar panel system.
- Provide opportunities for a range of windscreen configurations (including no windscreens).

Prototype Locations & Criteria (cont.)

Adaptability & Flexibility

- Test the size and scale of the shelter family in typically constrained site conditions encountered across the district.
- Test the flexibility of shelter family by placing them in a range of orientations and slopes.

Proposal

- Seek advice from the Portland Design Commission to exempt new shelters and associated amenities from the Land Use process by making them new standard improvements in the ROW.
- Consider Updating PBOT *Guide to Standard LRT and BRT Improvements in Public Streets* to include new bus shelters and stop amenities at regular service stops and transit centers

Next Steps

- Finish final design-build process with our fabricator and design team
- Finalize sites/confirm permitting
- Fabrication/site preparation and shelter installation

Thank you.
Questions? Comments?