Hwy 99W Pedestrian Bridge

Sherwood City Council Work Session

Project

April 19, 2022





Meeting Goals:

Provide update to City Council on progress made and solicit input selection of a preferred alternative for further development.

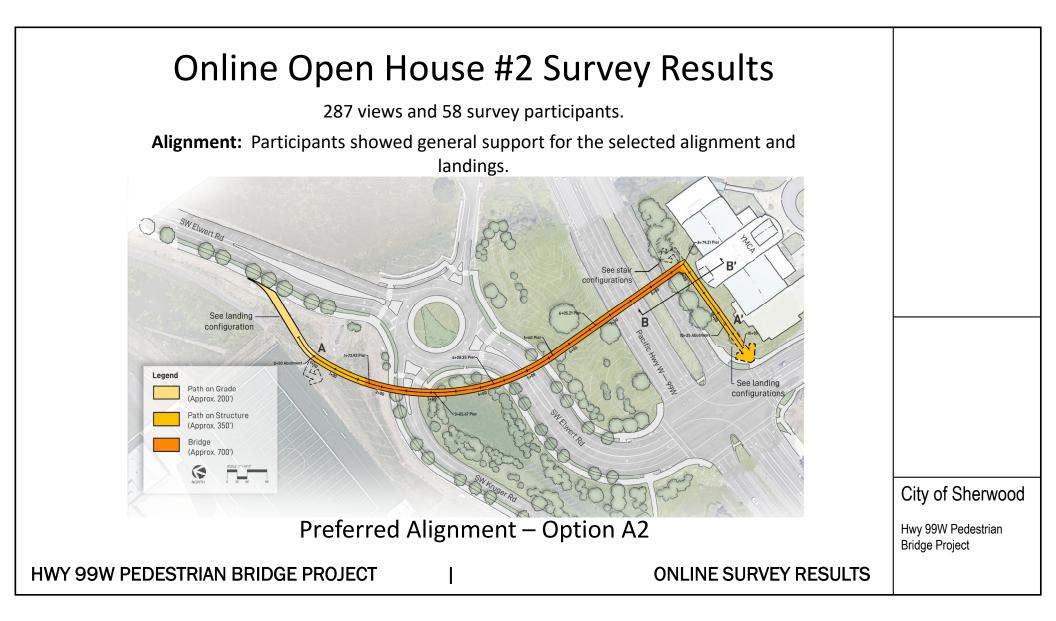
Agenda:

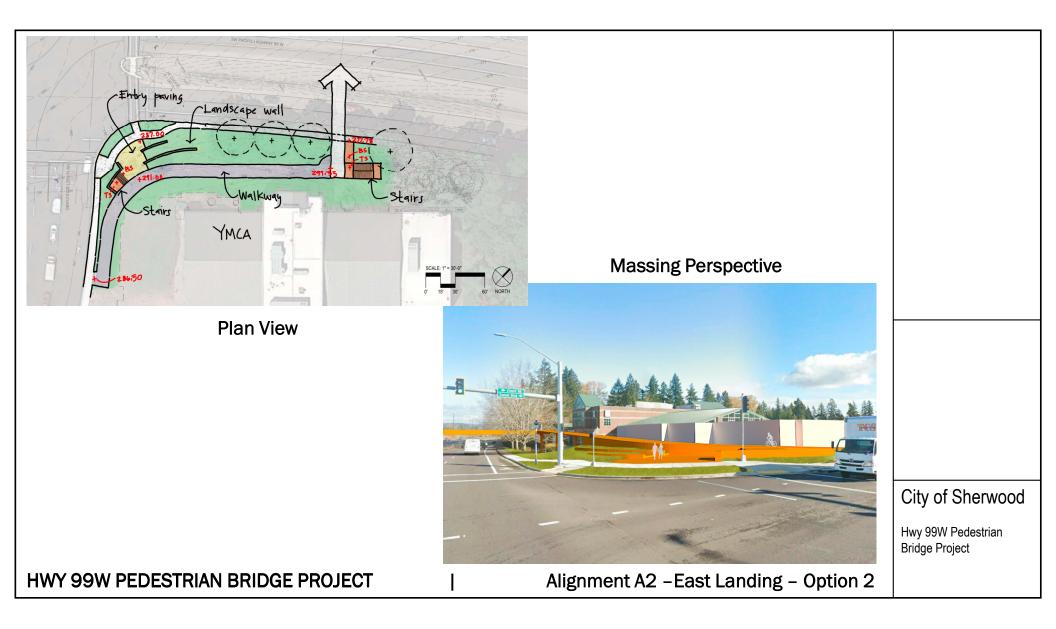
- Online Open House #2 Survey Results
- High School View Impacts
- Alternatives Analysis
- Action Needed

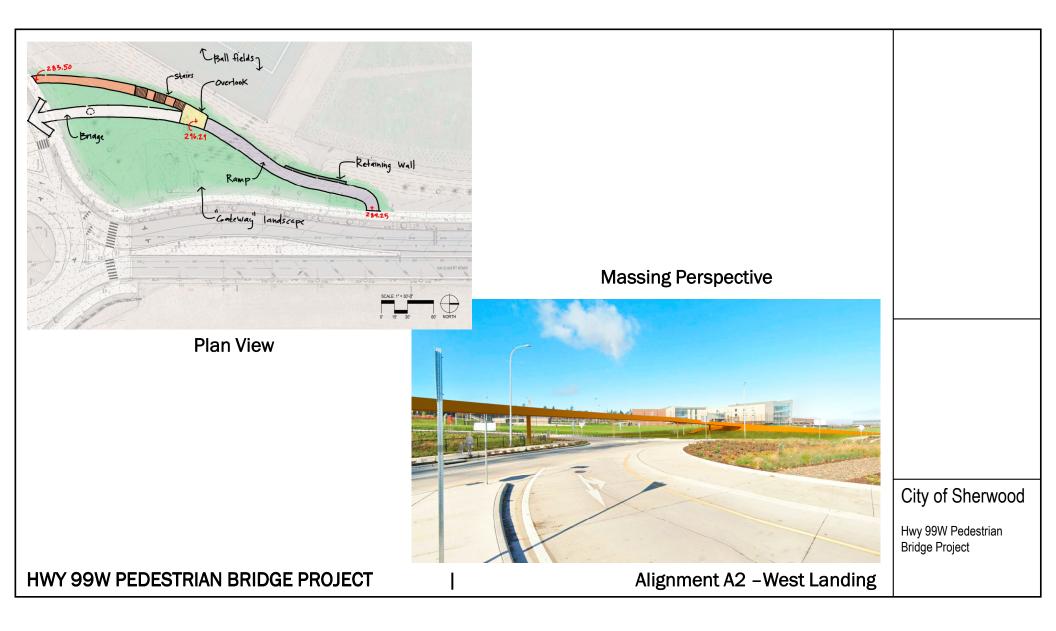
HWY 99W PEDESTRIAN BRIDGE PROJECT

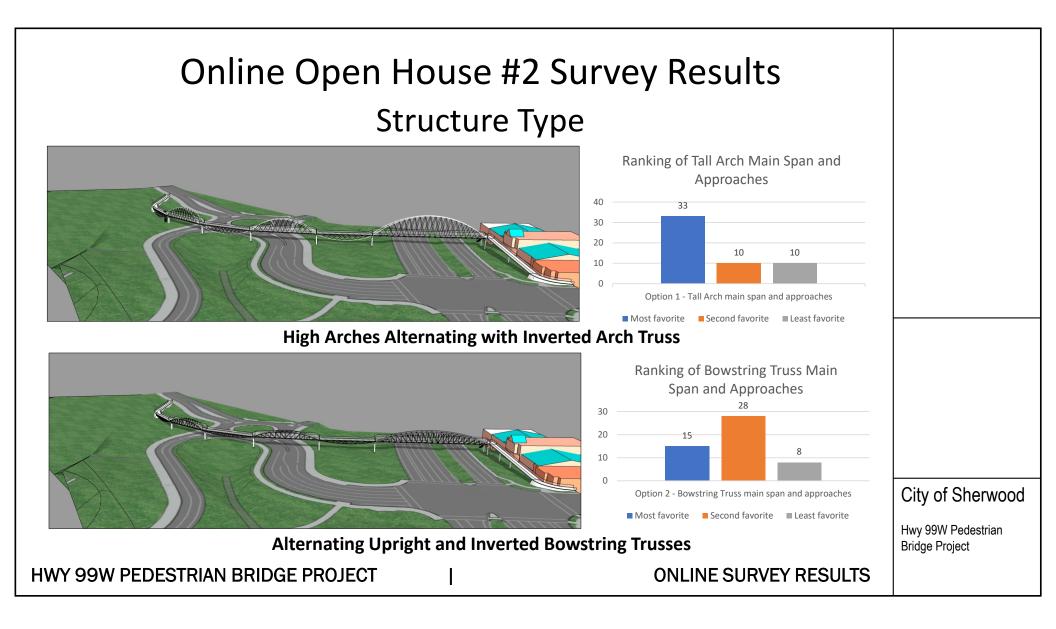
AGENDA

City of Sherwood









Online Open House #2 Survey Results Structure Type

- 62% chose the Tall Arch option as their favorite option.
- 28% chose Bowstring Truss as their favorite option
- Both Tall Arch and Bowstring Truss were chosen as first or second favorite option by 80% of the respondents
- 63% chose the Tall Arch with Twin Girders approach option as their least favorite option
- Participants strongly preferred a steel bridge (75%) to a wood bridge (13%)

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ONLINE SURVEY RESULTS

High School Visual Impacts



View of High School from northbound Hwy 99W at SW Sunset Blvd intersection.

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HIGH SCHOOL VISUAL IMPACTS

City of Sherwood

High School Visual Impacts



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HIGH SCHOOL VISUAL IMPACTS

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Alternatives Analysis Matrix

Goals	Alignment A2			
	Bridge Type			
	Tall Arch Main Span / Arch Approaches	Bowstring Truss Main Span and Approaches	Tall Arch Main Span / Twin Girder Approaches	
Safety Improvement	The alignment eliminates all pedestrian crossing conflicts between Hwy 99W and SHS.			
Connectivity	The alignment provides direct connection between the YMCA, SHS, and the multiuse trail on SW Elwert Rd and SW Kruger Rd.			
Accessibility	All approaches to meet ADA			
Desirability	Most direct route (1280' to	Most direct route (1280' total route length).		
Utility Impacts	Overhead utility line adjustments and coordination with utilities required.			
Environmental Impacts	Moderate potential for wetland and/or vegetated corridor impacts.			
Signature Structure Potential	High (Bridge would be unique to Sherwood)		Moderate (Similar bridges in NW)	
Gateway Design Potential	All alternative structure typ	All alternative structure types allow for a high gateway design potential.		
ROM Construction Cost	\$13M	\$14M	\$13M	City of Sherwood
				Hwy 99W Pedestrian Bridge Project
99W PEDESTRIAN BRIDGE I	PROJECT	Δ	Iternatives Analysis	

Action Needed

Confirm selection of preferred alternatives for alignment, structure type and structure material or indicate additional information needed.

- Alignment Option A2 with East Landing Option 2 identified as preferred alignment at previous Council work session.
- Preferred Structure Type
 - High Arches Alternating with Inverted Arch Truss
 - Alternating Upright and Inverted Bowstring Trusses
 - High Arch Main Span with Twin Girder Approach
- Structure Material Type
 - Steel identified as preferred at prior Council session and preferred by survey respondents.

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ACTION NEEDED

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