FRENCH PRAIRIE BRIDGE PROJECT IN WILSONVILLE

Wilsonville Planning Commission

November 13, 2019

WILSONVILLE OREGON

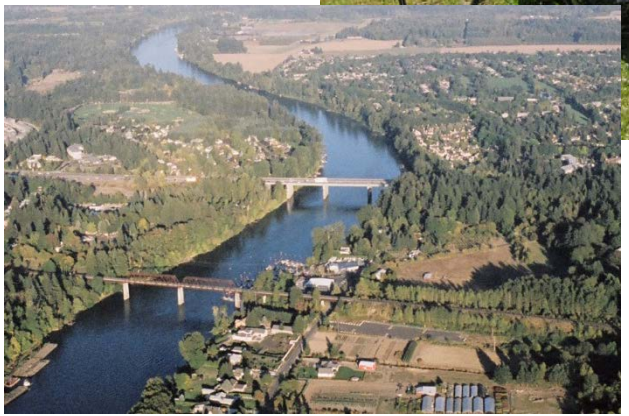
CLACKAMAS COUNTY

Metro

PROJECT REVIEW: PROJECT PURPOSE

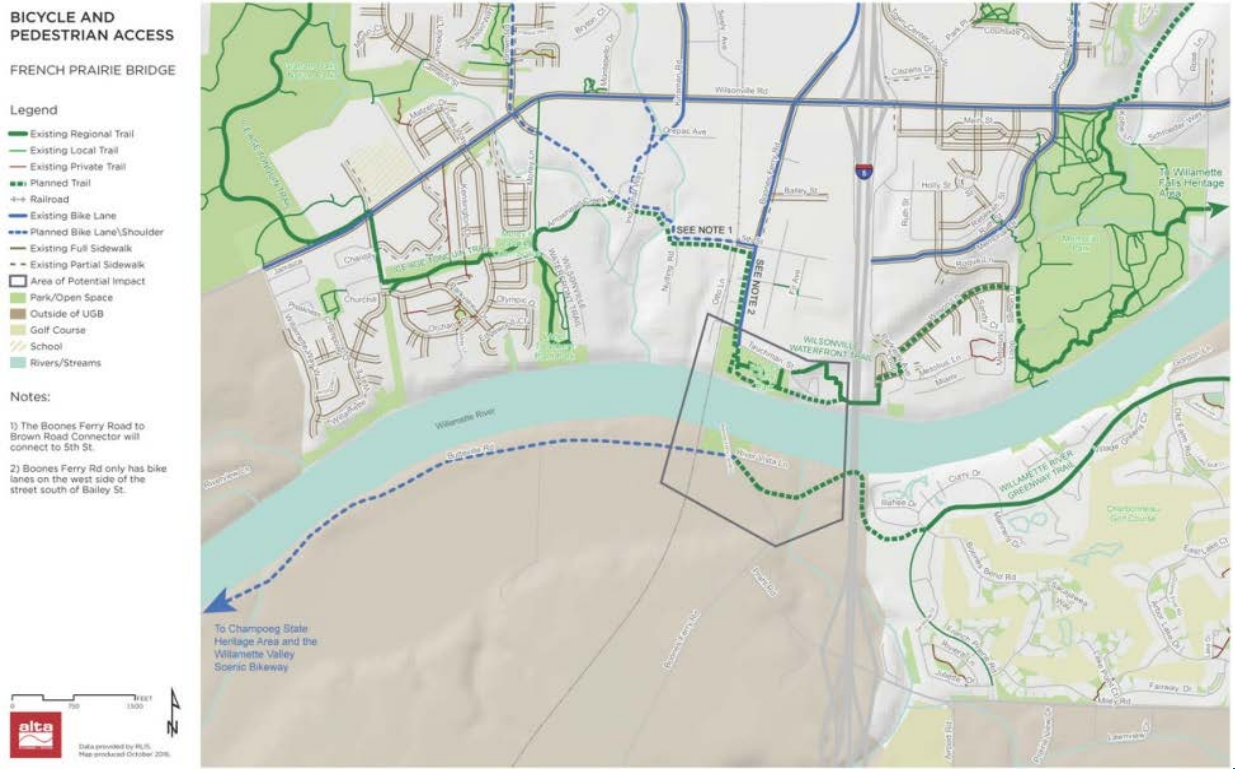
Key project benefits:

- Healthy communities
- Emergency services
- Economy



RIVER CROSSINGS

TRAIL CONNECTIONS



CURRENT PROJECT WORK

Funding

- $1.25M Metro RFFA Grant
- $400k Parks & Rec. SDC's

Project Goals

- Preferred Bridge Location
- Preferred Bridge Type
- Cost Estimate – Final Design & Construction

Inform Decision to Proceed

PUBLIC ENGAGEMENT

- Project Stakeholder Interviews
- Technical Advisory Committee
- Project Task Force
- Open Houses (In-Person & Online)
- Council & Clackamas BCC Hearings
- Stakeholder Briefings
  - Emergency Service Providers
  - Spanish Focus Group
  - Oregon Recreation Trails Council
  - French Prairie Forum
  - Confed. Tribes of Grand Ronde
  - Westside Economic Alliance

EVALUATION CRITERIA

Criterion	Weight	W1	W2	W3
A – Connectivity & Safety	20%			
B – Emergency Access	20%			
C – Environmental Impacts	11.5%			
D – Recreational Goals	20%			
E – Built Environment	17%			
F – Cost & Economic Impact	11.5%			
TOTAL	**100%**			

PROJECT LOCATION SELECTION

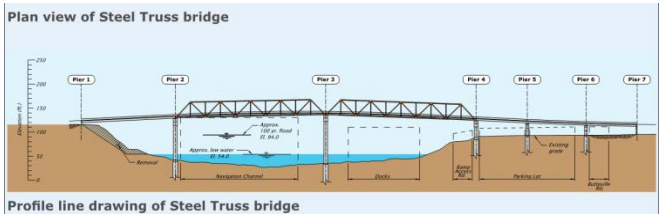
Task Force Scoring Summary

Criterion	W1	W2	W3
A – Connectivity & Safety	13.5	9.0	8.5
B – Emergency Access	14.0	10.0	7.3
C – Environmental Impacts	6.9	8.1	3.8
D – Recreational Goals	15.5	11.0	10.0
E – Built Environment	10.2	9.4	8.5
F – Cost & Economic Impact	9.5	7.5	6.0
TOTAL	**70**	**55**	**44**

BRIDGE TYPES: Alignment

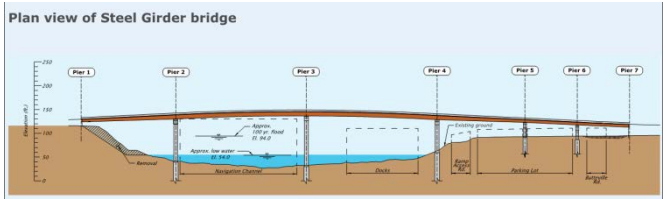
PROJECT BRIDGE TYPES

Plan view of Steel Truss bridge



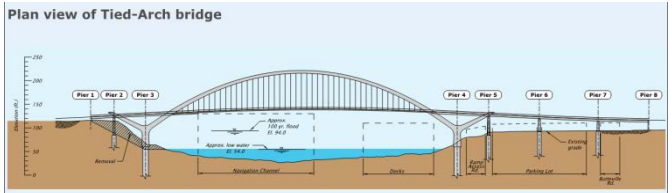
Profile line drawing of Steel Truss bridge

Plan view of Steel Girder bridge



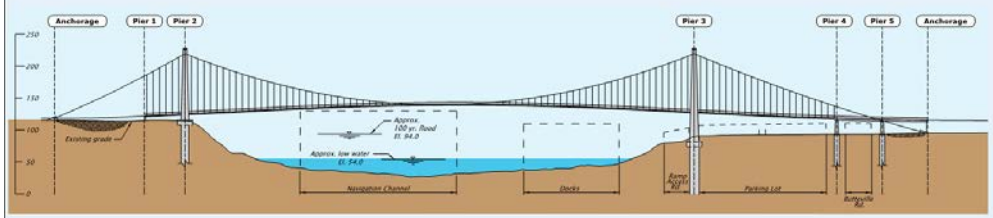
Profile line drawing of Steel Girder bridge

Plan view of Tied-Arch bridge



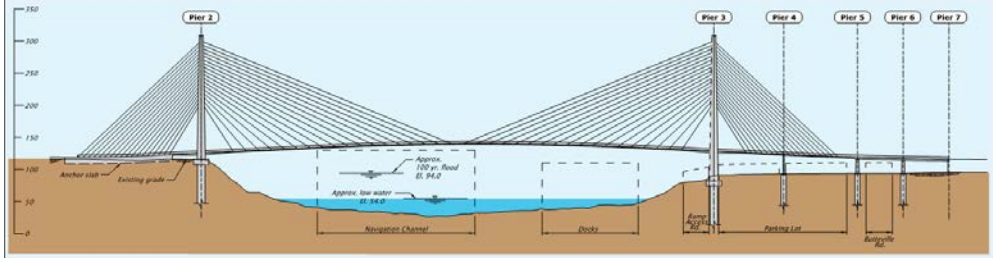
Profile line drawing of Tied-Arch bridge

Cross section of Suspension bridge



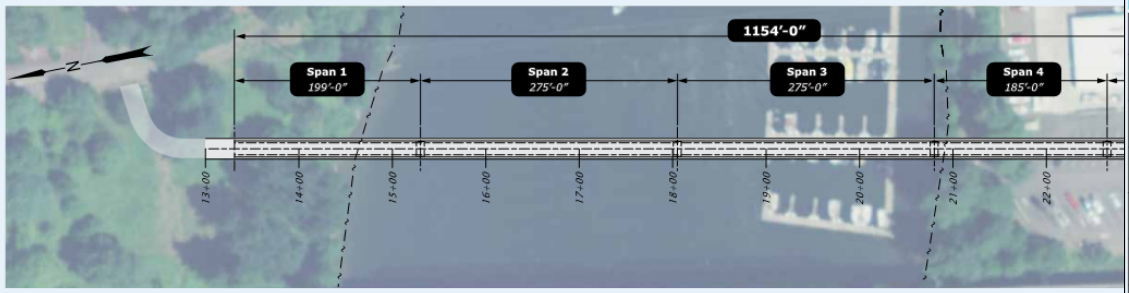
Profile line drawing of Suspension bridge

Plan view of Cable-Stayed bridge

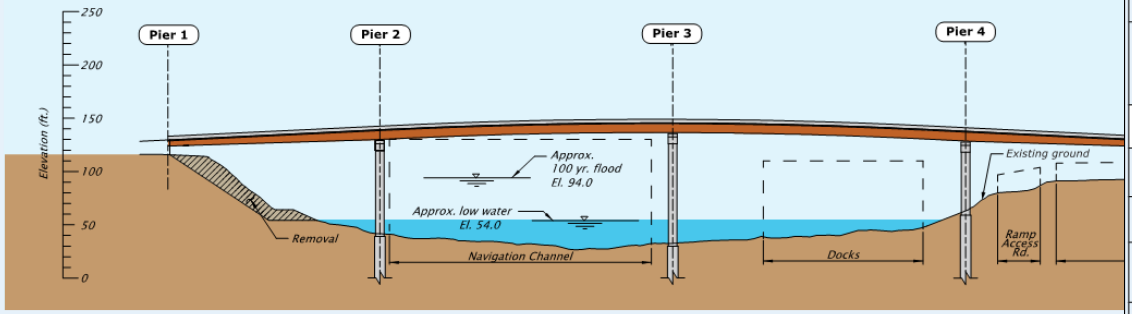


Profile line drawing of Cable-Stayed bridge

BRIDGE TYPE ANALYSIS



Plan view of Steel Girder bridge



Profile line drawing of Steel Girder bridge

Criteria	Suitability
Cost and Complexity	
Least cost	●
~2-year construction duration	●
Longest permitting duration	○
Most risk to cost and schedule for in-water work	○
Constructible by local contractors	●
Temporary Impacts	
Foundation construction in the river channel	○
Temporary bridge supports in the river, reducing navigational channel and impacting marina	○
Access and staging on both sides of the river, causing moderate impacts to Boones Ferry Park and high impacts to dock area and marina parking	◉
Permanent Impacts	
Three piers in river channel	○
One pier in marina parking lot	○
Grading in Boones Ferry Park for higher bridge deck/deeper girders	◉
Potential dock area impacts due to proximity of new pier	○
Regrade river banks to mitigate floodway impacts	○
Aesthetic considerations	
Unobstructed views, least visual impact	n/a

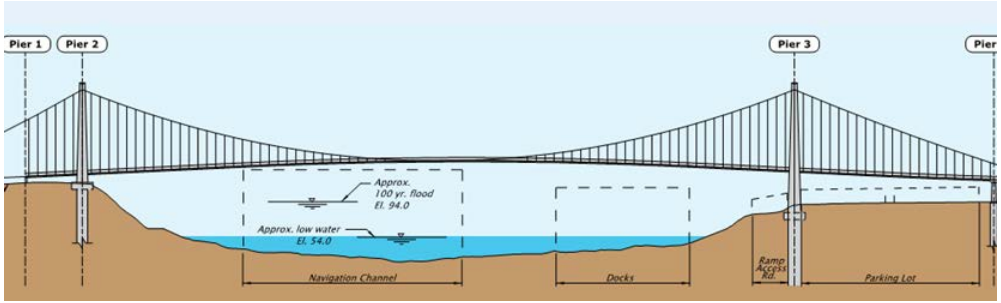
BRIDGE TYPES: PUBLIC INPUT

Benefits Outweigh the Costs and Negative Impacts.				
	Strongly or somewhat agreed	Strongly or somewhat disagreed	Unsure	Total responses
Steel Girder	48%	50%	3%	270
Steel Truss	27%	68%	5%	259
Tied-Arch	34%	61%	5%	260
Cable Stay	57%	39%	4%	268
Suspension	62%	35%	3%	260

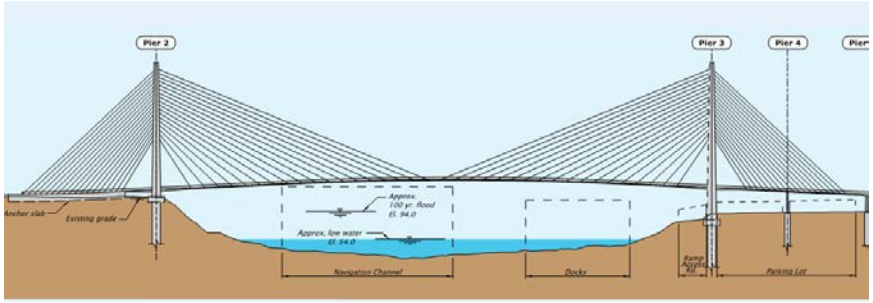
BRIDGE TYPES NARROWED

Advance the suspension and cable-stay bridge

Suspension Bridge



Cable Stay Bridge



- Minimize river, marina & park impacts
- Importance of signature bridge

REFINEMENT: PUBLIC INPUT

Table 3: Memorable landmark. Percent of respondents who agreed or disagreed with the following statement: The design of the bridge type is consistent with a "signature" bridge design that will provide a memorable Wilsonville landmark and create positive economic benefits.

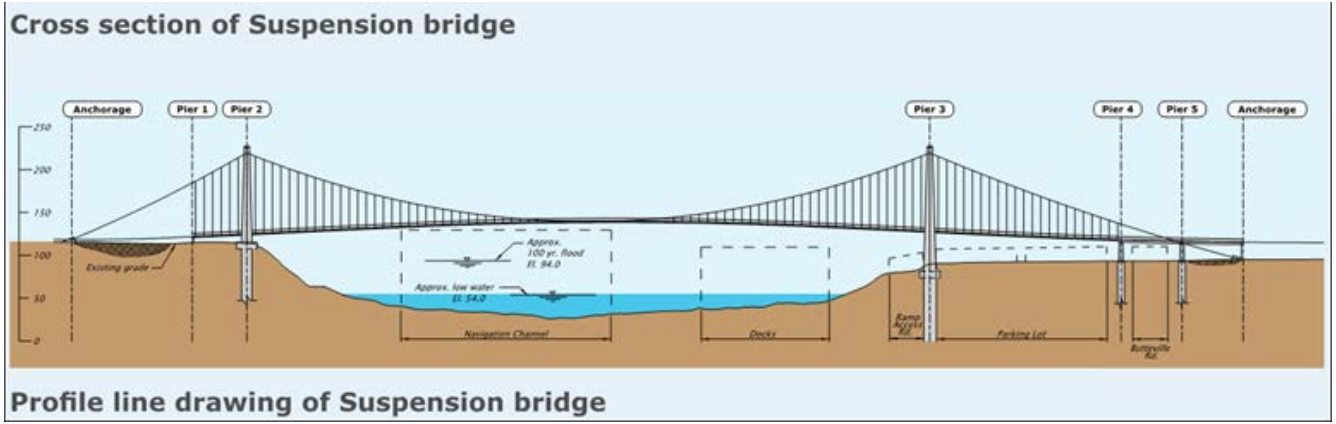
	Strongly or somewhat agreed	Strongly or somewhat disagreed	Neutral	Total responses
Suspension Bridge	69%	18%	13%	200
Cable-stayed Bridge	56%	17%	27%	204

BRIDGE TYPE: SUSPENSION

CURRENT PROJECT WORK SUMMARY

Project Goals

- Preferred Bridge Location – **West Alignment**
- Preferred Bridge Type – **Suspension Bridge**
- Cost Estimate – **$37M to $49M**



FRENCH PRAIRIE BRIDGE

Next Steps

- Clackamas Board of County Commissioners Meeting
- Wilsonville City Council Public Hearing
- Environmental Fieldwork
- Construction Funding Strategy Report

FRENCH PRAIRIE BRIDGE
PROJECT IN WILSONVILLE

Questions?

Please Visit

www.frenchprairiebridgeproject.org

PROJECT COMMITTEES

Project Management Team

- City of Wilsonville
- Clackamas County
- ODOT
- OBEC Consulting Engineers

Project Task Force

- Community Members
- Business Representatives
- Walking & Cycling Enthusiasts
- Parks & Trails Interests
- Tourism Associations
- Emergency Service Personnel

Technical Advisory Committee

- City of Wilsonville
- Clackamas County
- Metro
- ODOT
- Marion County
- National Marine Fisheries
- Oregon Fish & Wildlife
- Oregon State Lands
- Oregon Emergency Management
- U.S. Army Corps of Engineers