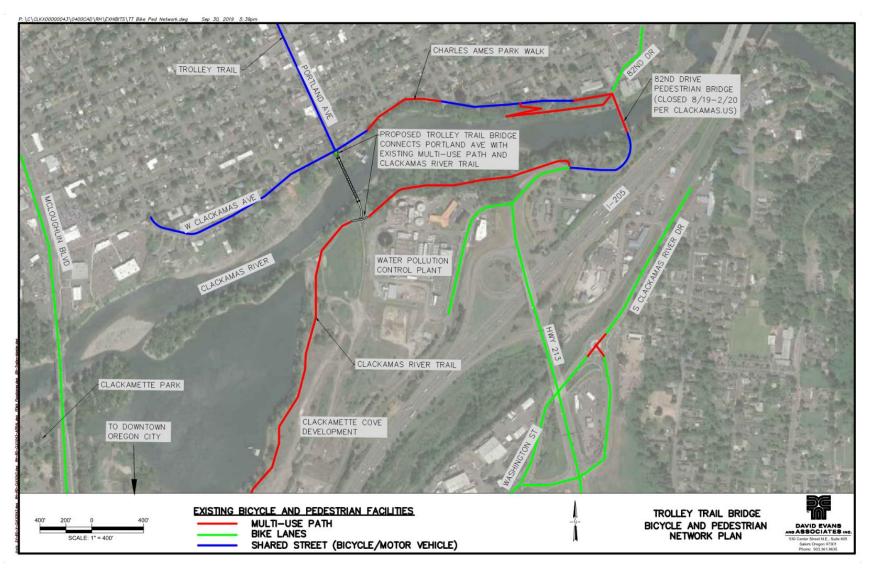
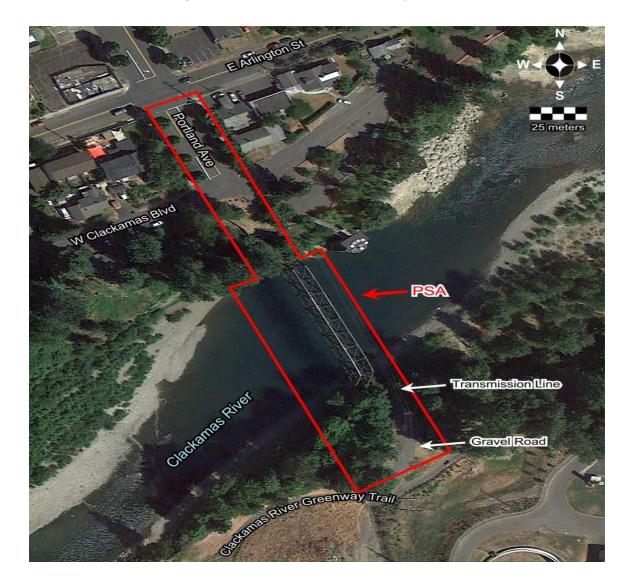
Trolley Trail Bridge: Gladstone to Oregon City Feasibility Study



Map of Area and Potential Connections



Project Study Area



Existing Area (North Side of River)

View to North of Portland Ave View of North Bank



Existing Area (South Side of River)

South River Bank

South Landing Area Near Transmission Line



Study Tasks

- Geotechnical Study and Investigation
- River and Storm water hydraulics
- Archaeological Resources
- Historical Resources
- Environmental Resources
 - Wetlands
 - Biological Resources
 - Permitting Requirements and Strategy (Federal, State and Local Permits)
- Hazardous Material Preliminary Corridor Study
- U.S. Coast Guard Coordination
- Multi-Use Path Connections and Bridge Concept Alternatives



Elevation

50-

40-

30-

20-

10-

0-

1+00

-10-

MATCH

1+25 1+50 1+75

2+00

2+25 2+50 2+75

3+25 3+50 3+75

3+00

EXTG.

-10 6+25 6+50 6+75 7+00 7+20 TROLLEY TRAIL BRIDGE ALT 1 - STEEL TRUSS CONCEPT PLAN AND PROFILE DAVID EVANS 530 Center Street N.E., Suite 605 Salem Oregon 97301 Phone: 503.361.8635

MATCH

EXTG.

EXTG. GROUND

5+00

4+25 4+50 4+75

4+00

Station

€ PATH

5+25 5+50 5+75

6+00

-50

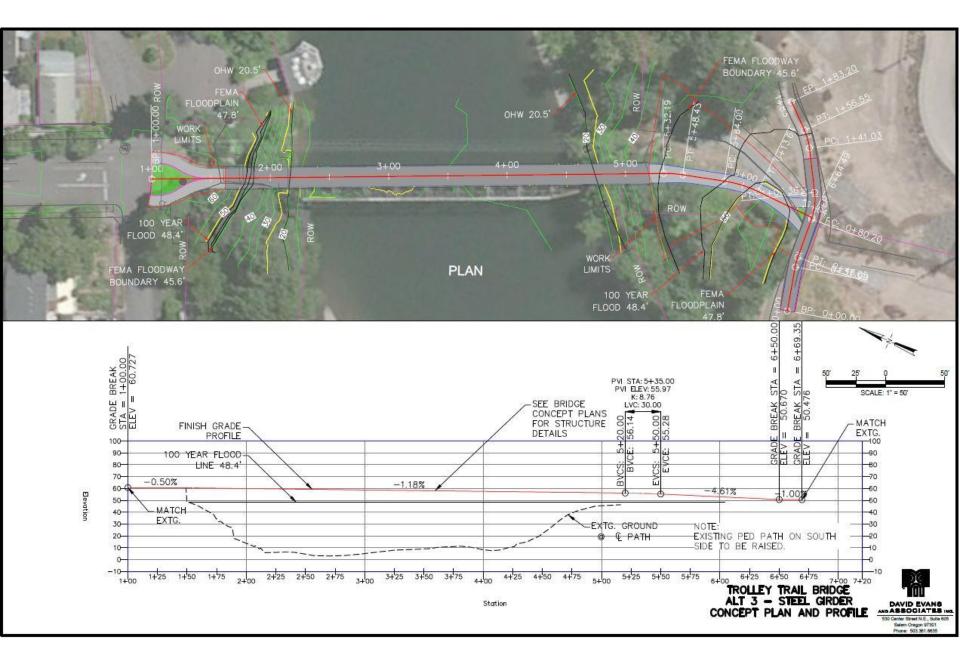
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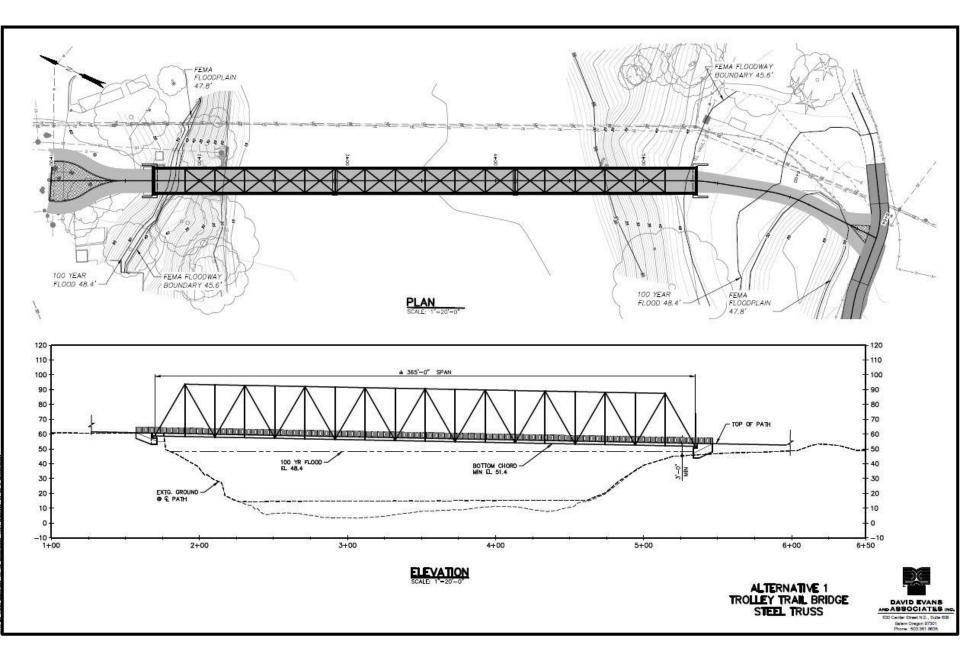
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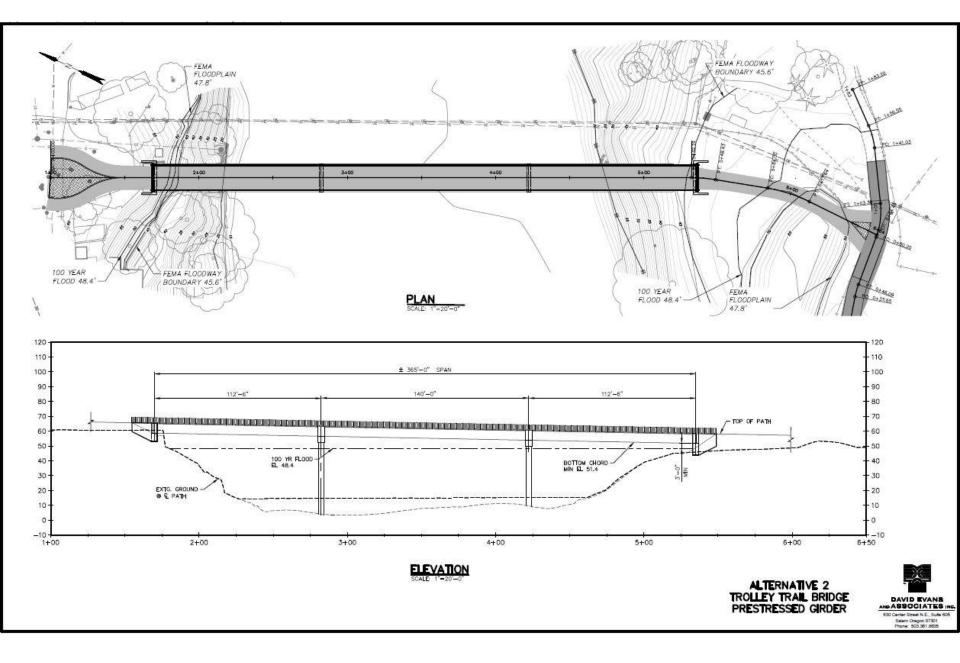
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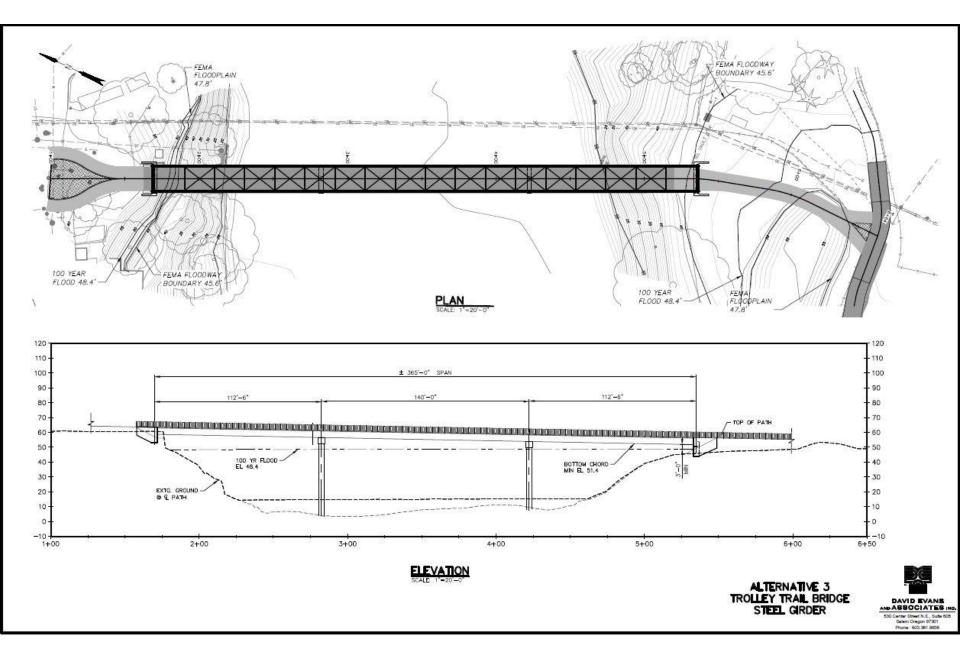
Steel Truss Example: Previous Trolley Trail Bridge



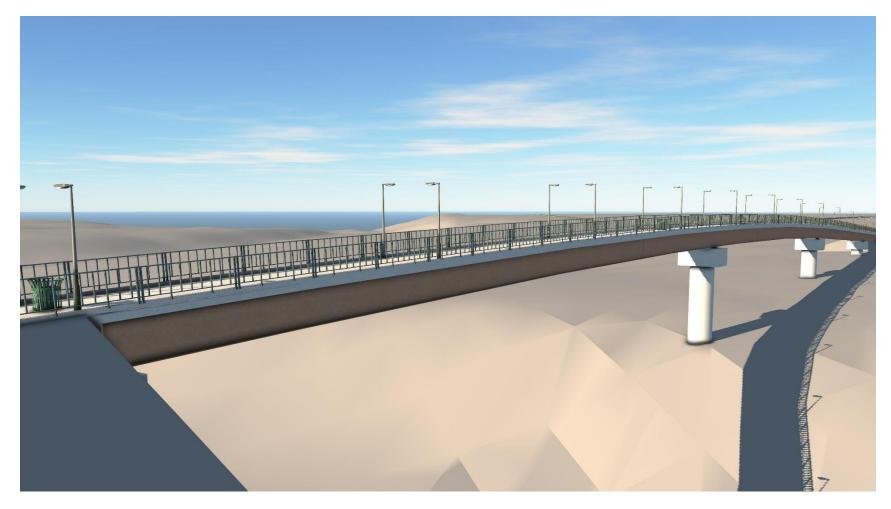


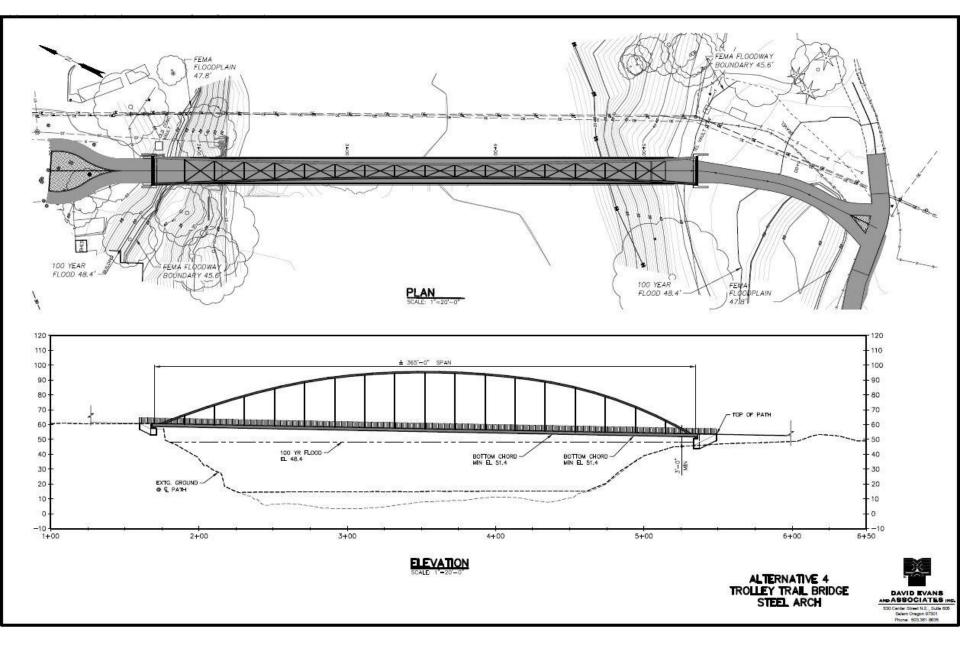
Prestressed Concrete Girder Example: Molalla River (Feyrer Park Rd) Bridge





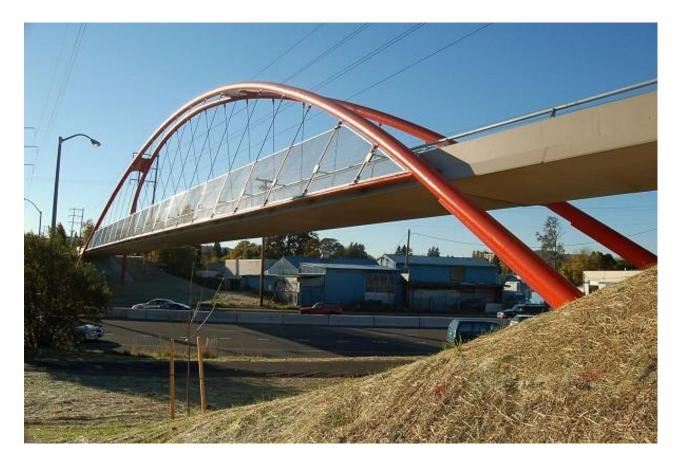
Steel Girder Example: Rendering of Pedestrian Bridge

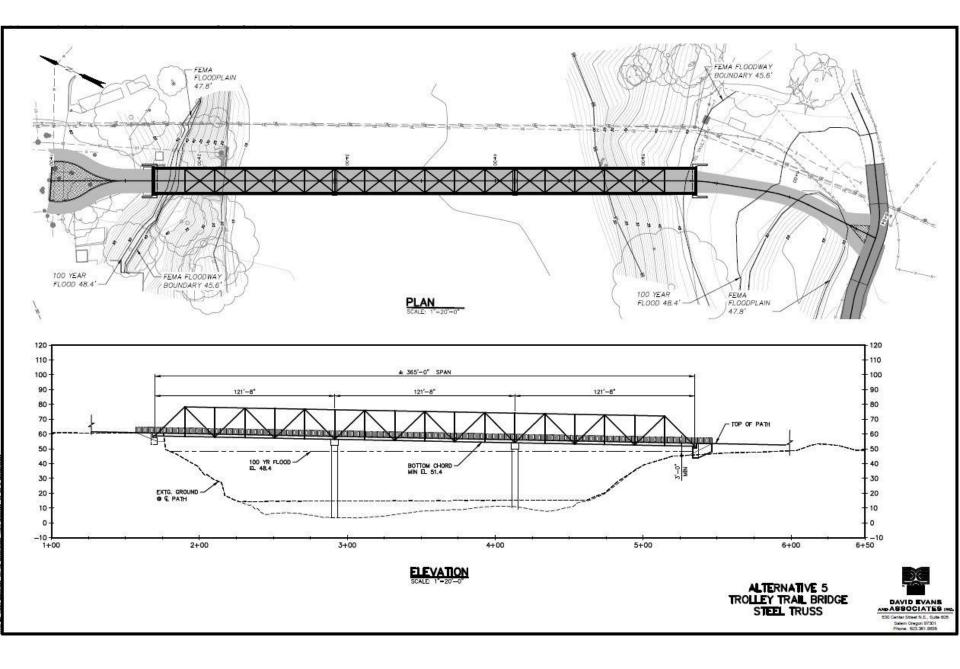




Steel Arch Example: Springwater Trail Arch Bridge

(photo courtesy of Robert Cortright)





Steel Truss Example: Fanno Creek Greenway Trail Bridge



Comparison of Alternatives

Structure Alternative	Permitting	Aesthetics	Geometrics (Grade)	Right of Way Need	Total Project Cost (Conceptual Est. Subject to Change)
Alt. 1 - Single Span Steel Truss	Good	Good	Good	Lower	\$4.3 million
Alt. 2 - 3-Span P/S Concrete Girder	Average	Below Average	Below Average	Higher	\$2.8 million
Alt. 3 - 3-Span Steel Girder	Average	Average	Average	Average	\$2.9 million
Alt. 4 – Single Span Tied Steel Arch	Good	Excellent	Good	Lower	\$7.5 million
Alt. 5 – 3-Span Steel Truss	Average	Good	Good	Lower	\$3.5 million

Next Steps and Questions?

- Complete the study reports and Design Concept Alternative Report by end of 2019
- Future applications for grant funding (RRFA Application or T2020)
- Questions?
- Presentation will be posted to: <u>https://www.clackamas.us/engineering/planning</u> <u>projects.html</u>

