

APPENDIX A: Willamette River Bridge Survey

The Oregon Department of Transportation is in the final phase of completing the Environmental Assessment which outlines the potential environmental impacts of replacing the I-5 bridge over the Willamette River in Eugene and Springfield. Beginning in 2009, two side by side bridges will be built to replace the decommissioned I-5 bridge and the temporary detour bridge currently in use.

The Environmental Assessment analyzed the potential impacts of the pier locations and basic structure of four bridge types. ODOT is now seeking guidance from the community regarding bridge design concepts to help the Community Advisory Group and the Project Development Team recommend the bridge type that is best suited for this location.



Existing bridge conditions

Using this survey, tell us your priorities and which bridge types you like best. Keep in mind that this survey is not a formal vote on a bridge type, but a way to gather input on the type of bridge that makes sense for this location.

If you would like more information before completing the survey, please visit the project website: www.WillametteBridge.org. Please return this survey to the address on the back by May 15, 2008.

1. What is your zip code? _____

2. What is your gender? Male Female Prefer not to say

3. What is your age? _____

4. How do you use or see the I-5 Bridge over the Willamette River? (Check all that apply.)

- I drive over it on I-5
- I drive under it on Franklin Blvd.
- I use the bike/pedestrian trails
- I use the nearby parks and green-spaces
- I live or work close to the bridge
- I seldom see the bridge
- I seldom use the bridge
- Other _____

5. How often do you use or see the bridge?

- One or more times a day
- 4-6 times per week
- 1-3 times per week
- Occasionally
- Rarely or never

6. What is your primary transportation?

- Personal motorized vehicle
- Bicycle
- Bus
- Walking
- Commercial vehicle
- Other _____

Bridge Values

This project is guided by a set of Goals and Objectives which include highway safety and minimizing environmental impacts. Please read about the following values and tell us how important each is to you.

7. Select up to eight of the following 15 bridge values that are the most important to you.

	<i>Check your top eight values</i>
Life long utility, durability, and ease of maintenance	<input type="checkbox"/>
Close connection with the community, creating a sense of place	<input type="checkbox"/>
The bridge should demonstrate sustainability in design, construction, and operation	<input type="checkbox"/>
The bridge should stand out	<input type="checkbox"/>
The bridge should blend in and minimize its visual impact	<input type="checkbox"/>
The bridge should fit with the region's historic bridges and landmarks	<input type="checkbox"/>
The bridge should fit with the newer regional bridges and landmarks	<input type="checkbox"/>
The bridge should have its own unique character	<input type="checkbox"/>
The bridge should serve as a gateway to the community for travelers	<input type="checkbox"/>
The design process should emphasize art and design input from the local community	<input type="checkbox"/>
The design should emphasize professional input from nationally/internationally recognized bridge designers	<input type="checkbox"/>
The bridge should provide opportunities to enhance park users' experience	<input type="checkbox"/>
The use and appearance of the park should be preserved or restored to current conditions as much as possible	<input type="checkbox"/>
Costs should be minimized	<input type="checkbox"/>
Design should create safety for path and park users	<input type="checkbox"/>

8. Are there other values you think should be reflected in the new bridge?

9. Picture a new bridge along I-5 over the Willamette River. Select words from the list below and/or add words to describe the completed bridge. (Choose all that apply.)

- | | | | |
|--------------------------------------|-------------------------------------|----------------------------------|---------------------------------|
| <input type="checkbox"/> Airy | <input type="checkbox"/> Graceful | <input type="checkbox"/> Natural | <input type="checkbox"/> Subtle |
| <input type="checkbox"/> Blending in | <input type="checkbox"/> Grand | <input type="checkbox"/> Open | <input type="checkbox"/> Unique |
| <input type="checkbox"/> Bold | <input type="checkbox"/> Heavy | <input type="checkbox"/> Organic | <i>Others:</i> |
| <input type="checkbox"/> Boxy | <input type="checkbox"/> Industrial | <input type="checkbox"/> Rustic | _____ |
| <input type="checkbox"/> Classical | <input type="checkbox"/> Innovative | <input type="checkbox"/> Simple | _____ |
| <input type="checkbox"/> Curves | <input type="checkbox"/> Light | <input type="checkbox"/> Sleek | _____ |
| <input type="checkbox"/> Distinctive | <input type="checkbox"/> Memorable | <input type="checkbox"/> Solid | _____ |
| <input type="checkbox"/> Earthy | <input type="checkbox"/> Metallic | <input type="checkbox"/> Sturdy | _____ |
| <input type="checkbox"/> Fresh | <input type="checkbox"/> Modern | <input type="checkbox"/> Stylish | |

10. Would you like to see the following features on the new bridge?

	Yes	No	No opinion
Decorative lighting of the bridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Color options (colored concrete, painted elements)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interesting above deck features (viewable by drivers on I-5)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interesting below deck features (viewable from paths and the river)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pathway lighting under the finished bridge	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Pathway not separated from the river by a bridge pier	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

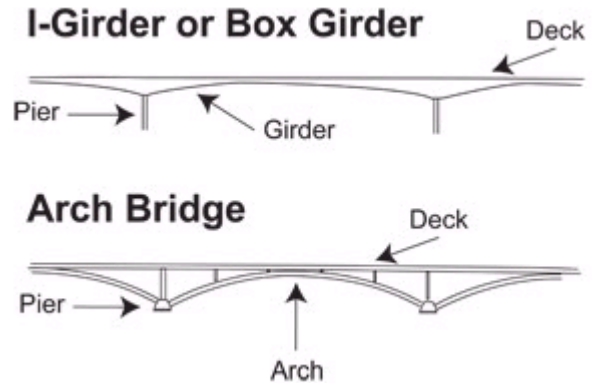
11. Which view of the bridge is the most important to you from a design perspective? Please rank (1-6) the following views:

	◀ Most important			Less important ▶		
	1	2	3	4	5	6
Views from the bridge for drivers on I-5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Views of the bridge for drivers on Franklin Blvd.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Long distance views of the bridge from the local area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Views from beneath the bridge for trail users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Views from the park	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Views for river users	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Bridge Types

The Environmental Assessment has analyzed the four bridge types detailed below. All of these bridge types are within the project budget, minimize the number of piers in the river, and fit within the existing right-of-way.

We need your help to determine which bridge type should move forward into the design phase. Please read about each of the four bridge types below and tell us what you think of each. The diagram on the right explains some of the bridge terms used below.

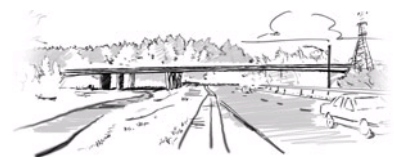
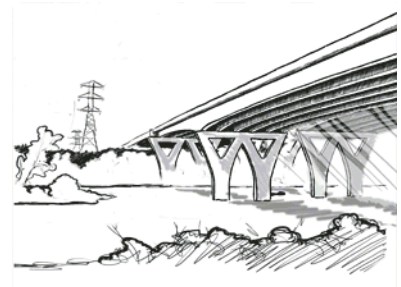


I-Girder

This is a common bridge type made of steel girders. A unique look can be achieved by the shape of the piers supporting the spans. Additional architectural effects can be achieved with color, texture, and shadow.

Attributes and Considerations

- Girder form can be "haunched" to create a slight curve toward each pier (see illustration).
- Above-deck appearance can be enhanced with non-structural elements (such as decorative arches or towers) to create visual interest for interstate users.
- Design elements such as color, texture, shadow, and lines may be applied to bridge elements such as the piers, the sides of girders, and the outside of barrier rails.
- Various pier designs can be considered.
- Opens up view of river under bridge deck.
- Slimmest bridge profile of all types if no above-deck elements are added.



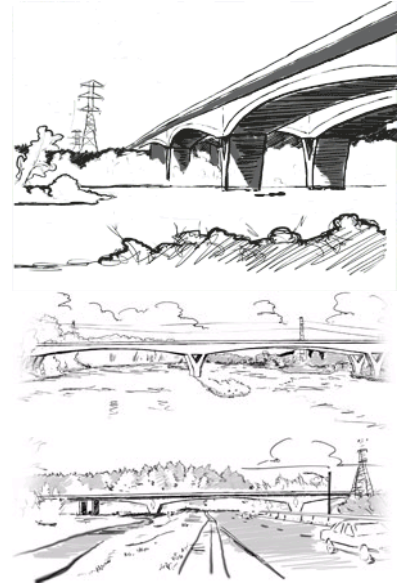
12. Do you have any comments about the I-Girder bridge type?

Box Girder

This is a common bridge type made of steel or concrete. A unique look can be achieved by the shape of the box girders and piers supporting the spans. Additional architectural effects can be achieved with color, texture, and shadow.

Attributes and Considerations

- An arched form is created by the shape of the girders between piers.
- Above-deck appearance can be enhanced with non-structural elements (such as decorative arches or towers) to create visual interest for interstate users.
- Design elements such as color, texture, shadow, and lines may be applied to bridge elements such as the piers, the sides of girders, and the outside of barrier rails.
- Various pier designs can be considered.
- Opens up view of river under bridge deck.
- Because of the enclosed girder, bridge maintenance inspections are more involved.



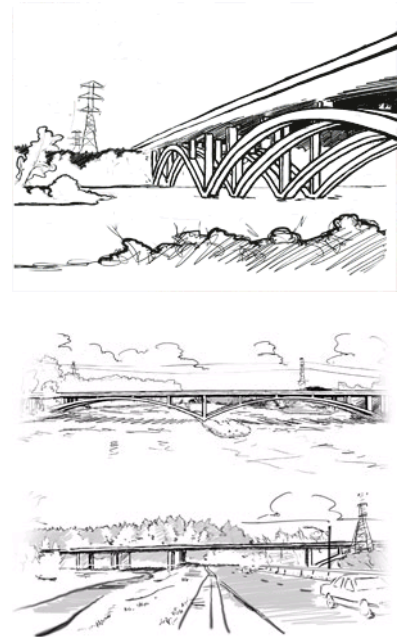
13. Do you have any comments about the Box Girder bridge type?

Deck Arch

The deck arch is a classical form of bridge architecture made from steel or concrete. Though the arch form provides less opportunity for variations in pier design, architectural effects can be achieved with color, texture, and shadow.

Attributes and Considerations

- Uses distinct curves between piers.
- Above-deck appearance can be enhanced with non-structural elements (such as decorative arches or towers) to create visual interest for interstate users.
- Design elements such as color, texture, shadow, and lines may be added to piers, the sides of girders, the outside of barrier rails, and to the sides or bottoms of arches.
- Frames views of the river when looking at the bridge in profile.
- Arches make the bridge larger and more visible from longer distances.
- The deck arch form can only be used for the portions of the bridge over the river. The portion of the bridge over Franklin Blvd. would have a different form.



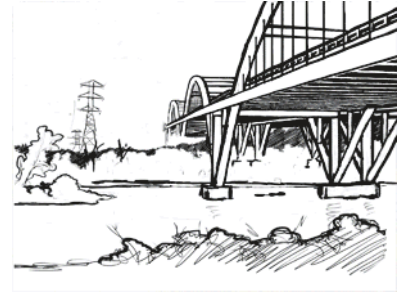
14. Do you have any comments about the Deck Arch bridge type?

Through Arch

The through arch is a less common bridge style made with steel arches. Though the arch form provides less opportunity for variations in pier design, additional architectural effects can be achieved with color, texture, and shadow.

Attributes and Considerations

- Uses distinct curves between piers.
- The through-arch design is the only bridge type being considered with structural features above the bridge deck to create visual interest for interstate users.
- Design elements are limited to arch color and some texture on the deck profile.
- Views of the river under bridge are somewhat open except at pier locations.
- Arches make the bridge larger and more visible from longer distances.
- Arches and hangers require more long-term maintenance.
- The through-arch form can only be used for the portions of the bridge over the river and over Franklin Boulevard. The remaining portions of the bridge will have a different form.
- The through-arch bridge requires six feet of additional structure width on the side of each bridge resulting in a total bridge footprint that is 24 feet wider than other bridge types.
- Additional width requires the use of retaining walls in order to stay within the right-of-way through Alton Baker Park.

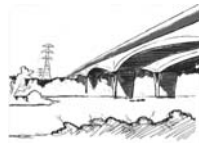


15. Do you have any comments about the Through Arch bridge type?

16. Considering the information above, please rank the four bridge types below in terms of which bridges best fit this location. (1=favorite, 4=least favorite.)



I-Girder _____



Box Girder _____



Deck Arch _____



Through Arch _____

17. Do you have any other comments on the bridge types?

Thank you!

Your input and comments will be shared with ODOT, the Community Advisory Group, Project Development Team, and the project Architecture and Engineering firm. Your guidance on bridge types will help determine which bridge type is forwarded into the design phase, and the information about your bridge values will help shape the initial concepts developed by the design team.

Before a bridge type is selected in August or September, there will be more opportunities for your participation. Please provide your contact information below if you wish to receive more information.

18. Is there anything else you would like to tell us? Do you have any questions about the process?

Name: _____

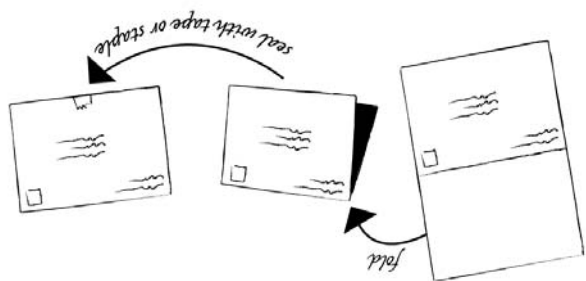
Address: _____

City: _____ **State:** _____ **Zip:** _____

Email Address: _____ **Phone:** _____

20. How did you hear about this survey? (Check all that apply.)

- Email
- Postcard
- Newspaper article
- Newspaper ad
- Project Website
- Community flier/poster
- Word of mouth
- Other (please specify) _____



Place
stamp
here.

**Willamette River Bridge Survey c/o JLA
1110 SE Alder St. Suite 301
Portland, OR 97214**

Please return by May 15, 2008