

Marion Street Pedestrian Bridge

Preliminary Concepts

February 18, 2016

Seattle Design Commission Workshop



city of seattle

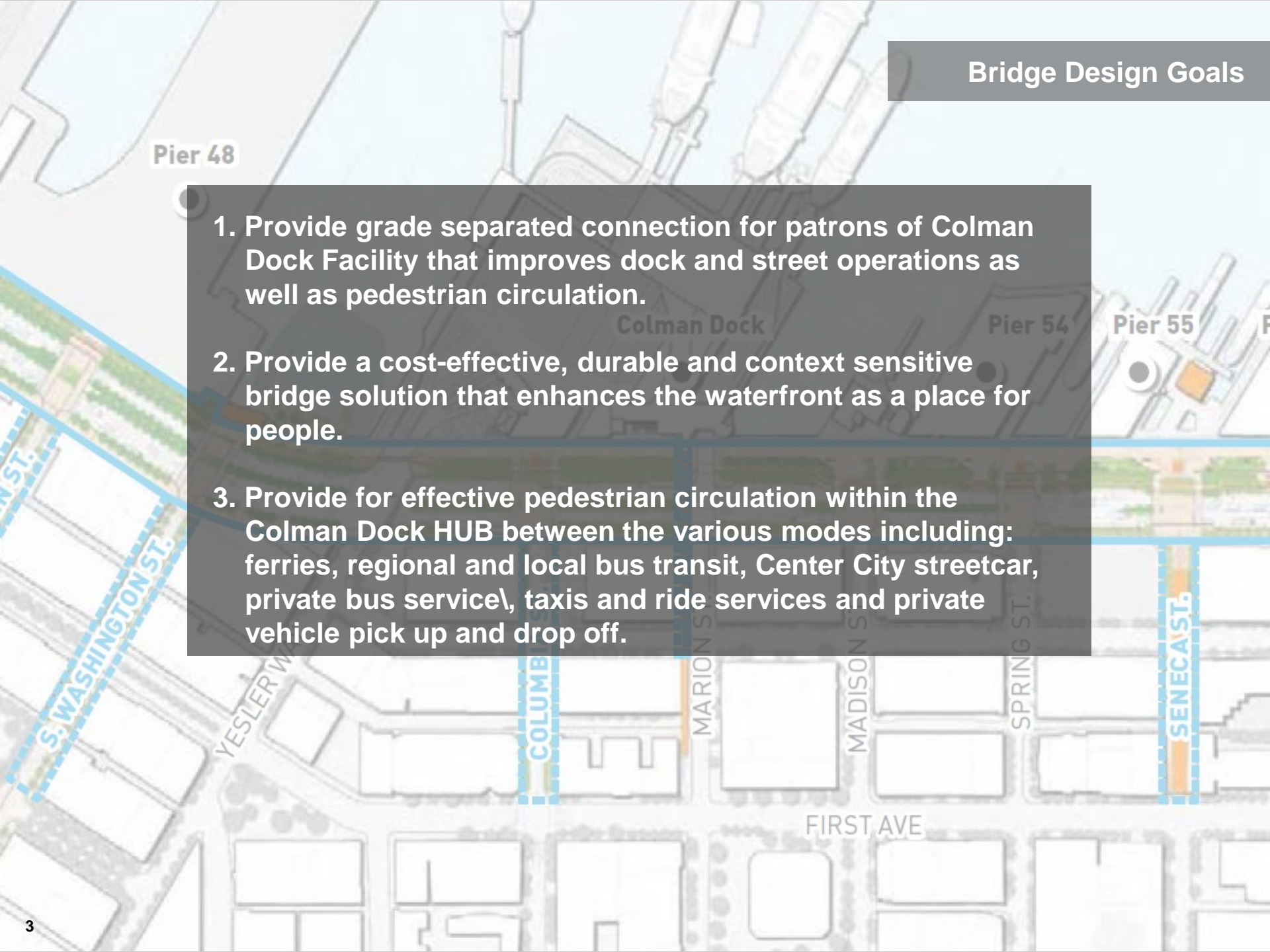


waterfront
SEATTLE



WSDOT

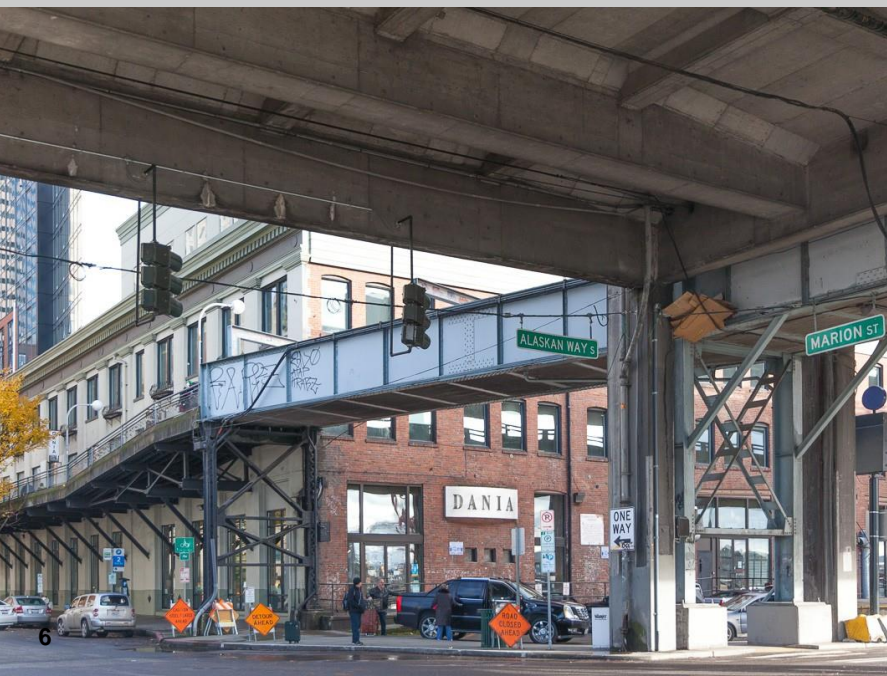
1. Introductions
2. Bridge Design Goals and Design Criteria
3. CIP Concrete Option 1
3. Extradosed CIP Concrete Option 2
4. Fink Truss Steel Option 3
5. Schedule and Next Steps

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- The background is a map of the Colman Dock area in Seattle. It shows the waterfront with several piers labeled: Pier 48, Colman Dock, Pier 54, and Pier 55. A central area is labeled 'Colman Dock'. Streets shown include S. Washington St., Yesler Way, Columbia St., Marion St., Madison St., Spring St., and First Ave. A blue dashed line runs along the waterfront, and a blue solid line runs along the street grid. A semi-transparent dark grey box is overlaid on the map, containing three numbered design goals.
1. Provide grade separated connection for patrons of Colman Dock Facility that improves dock and street operations as well as pedestrian circulation.
 2. Provide a cost-effective, durable and context sensitive bridge solution that enhances the waterfront as a place for people.
 3. Provide for effective pedestrian circulation within the Colman Dock HUB between the various modes including: ferries, regional and local bus transit, Center City streetcar, private bus service, taxis and ride services and private vehicle pick up and drop off.



Marion Street Bridge circa 1942





- 1. Minimum Width Between Railings: 16'-0"**
- 2. Minimum Alaskan Way Roadway Clearance: 20'-0"**
- 3. Promenade Clearance: 14'-0" to 16'-0"**
- 4. Minimum height of railing is 42 inches**

Pedestrian Bridge Portfolio



Liberty Bridge



Markey Memorial Bridge



Markey Memorial Bridge

Liberty Bridge
Greenville SC



Liberty Bridge

Greenville SC



A wide-angle photograph of the Liberty Bridge in Greenville, South Carolina. The bridge is a modern suspension bridge with a white metal truss deck and silver railings. It spans a river with a large, multi-tiered waterfall in the background. The waterfall flows over large, reddish-brown rocks. The surrounding area is lush with green trees and vegetation. In the distance, a large, modern building with a glass facade is visible. The sky is blue with some light clouds. Two people are standing on the bridge, looking out over the waterfall.

Liberty Bridge

Greenville SC

Liberty Bridge

Greenville SC





Liberty Bridge
Greenville SC



Liberty Bridge

Greenville SC



Markey Memorial Bridge

Revere, MA





Markey Memorial Bridge
Revere, MA



Markey Memorial Bridge

Revere, MA



Markey Memorial Bridge

Revere, MA



Markey Memorial Bridge

Revere, MA



Tilley Memorial *Bridge*

Fort Worth, TX



Tilley Memorial *Bridge*
Fort Worth, TX



© Rosales + Partners

Tilley Memorial *Bridge*

Fort Worth, TX



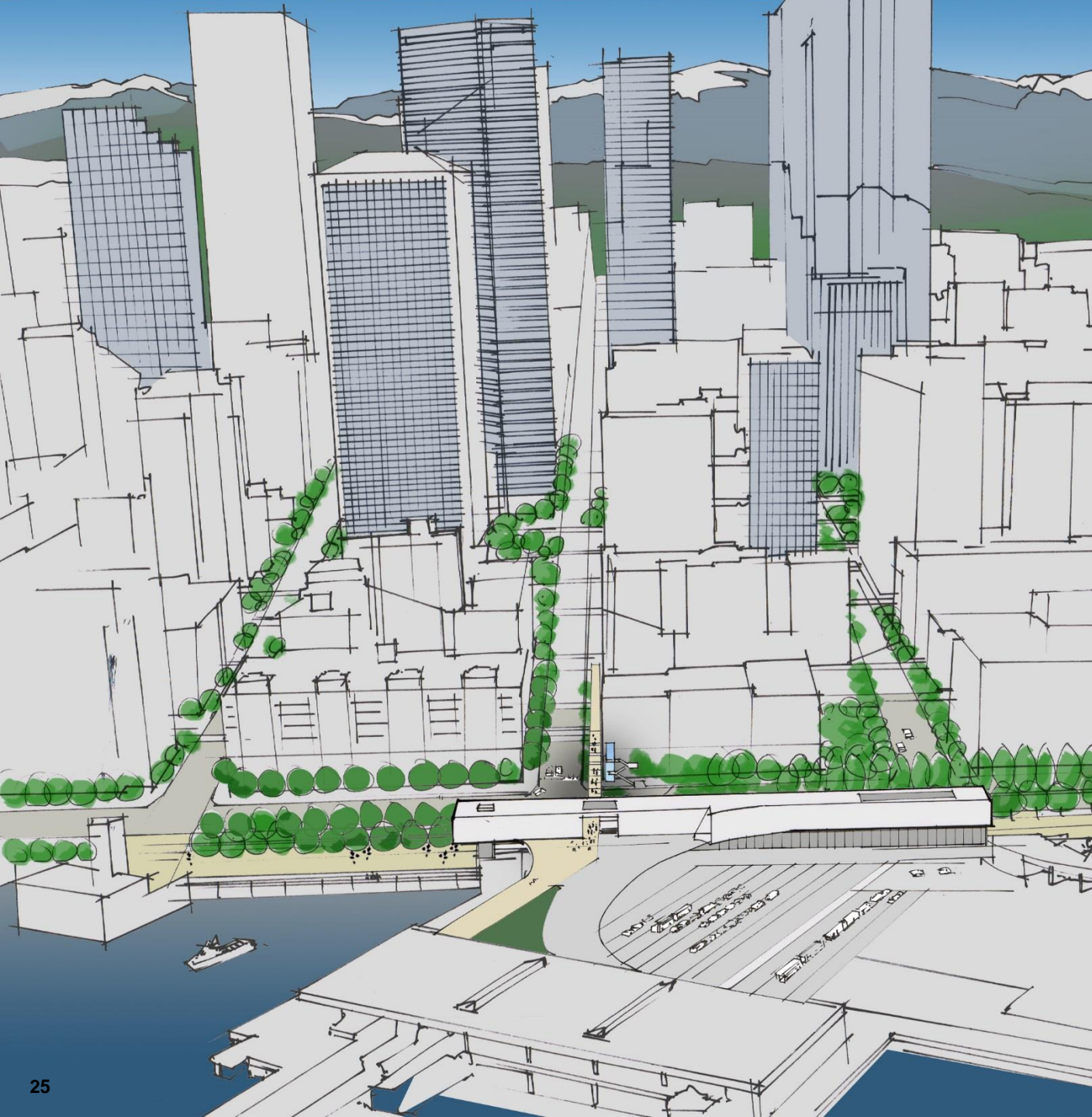
© Rosales + Partners



Tilley Memorial *Bridge*
Fort Worth, TX

Tilley Memorial *Bridge*
Fort Worth, TX



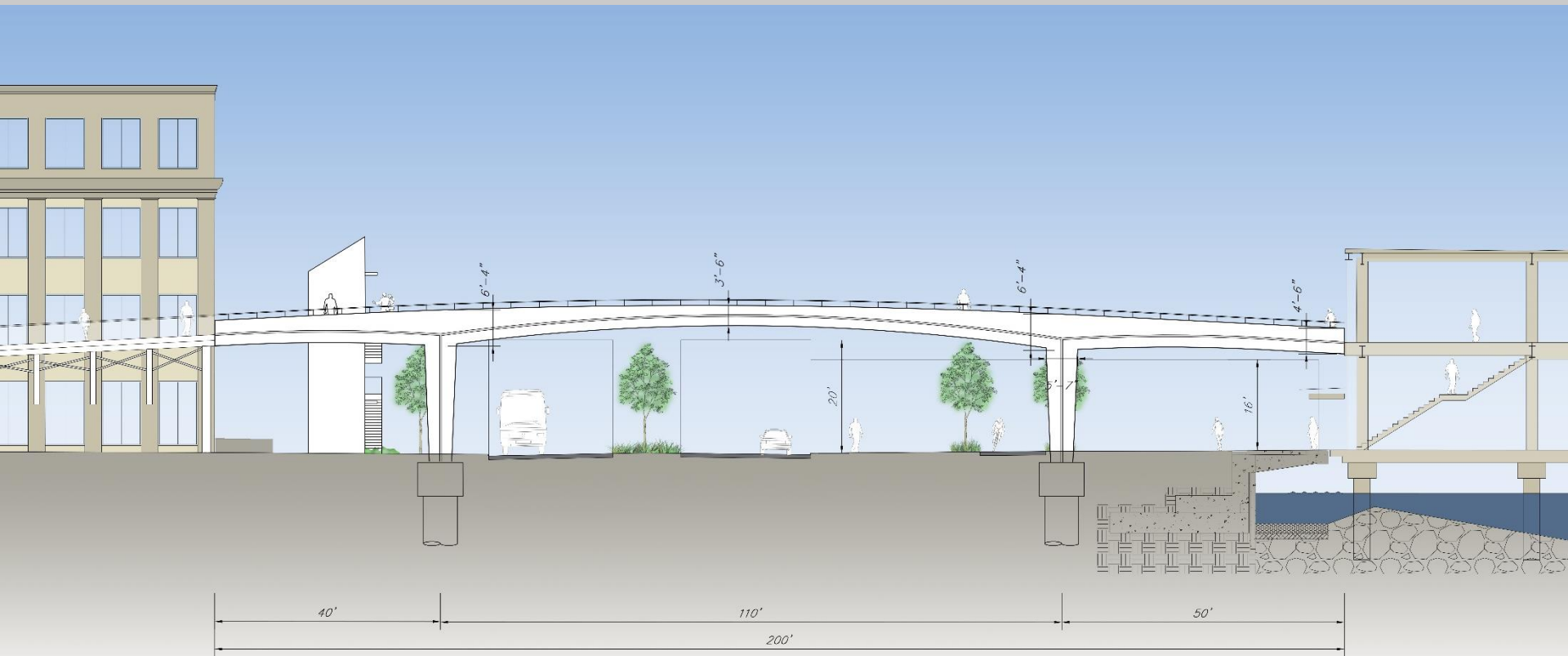


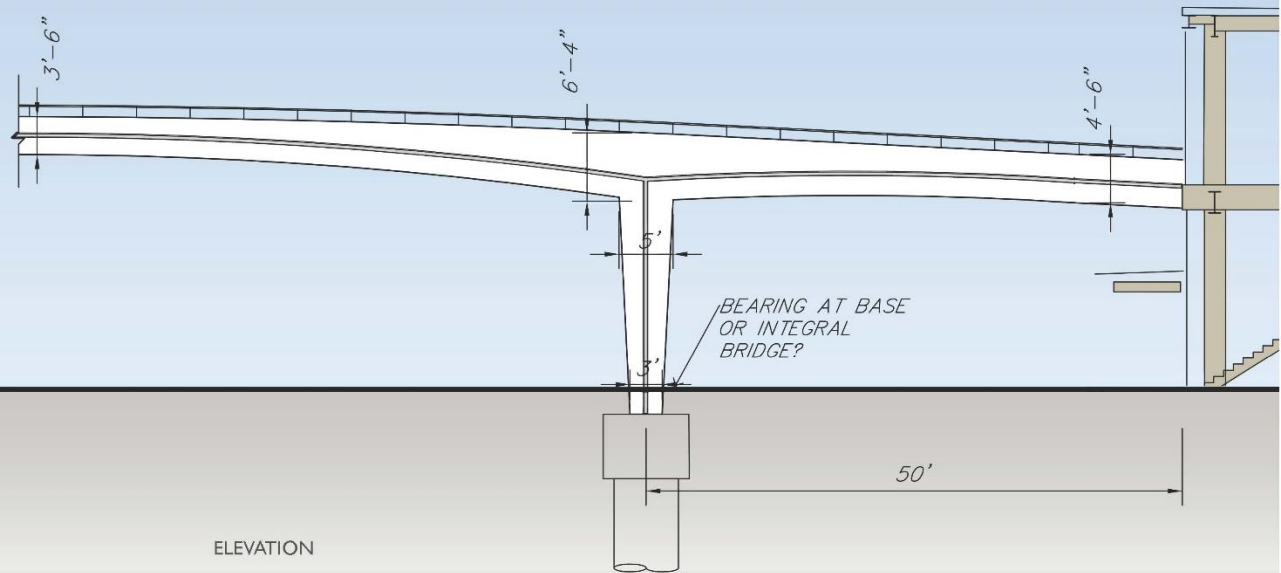
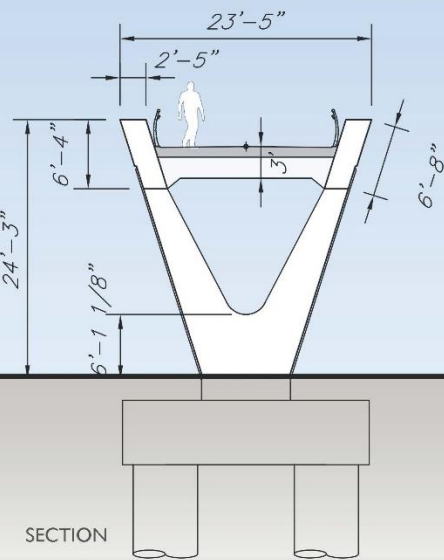
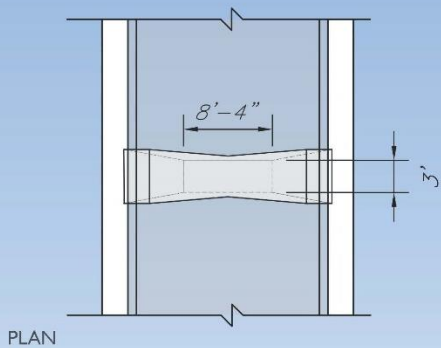
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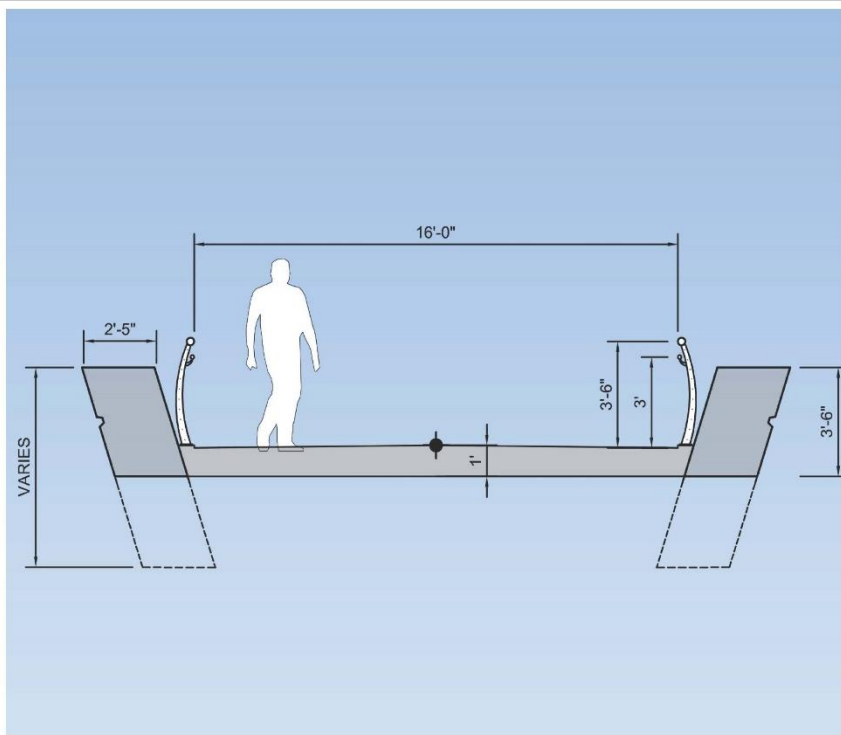
Plan at Bridge Level



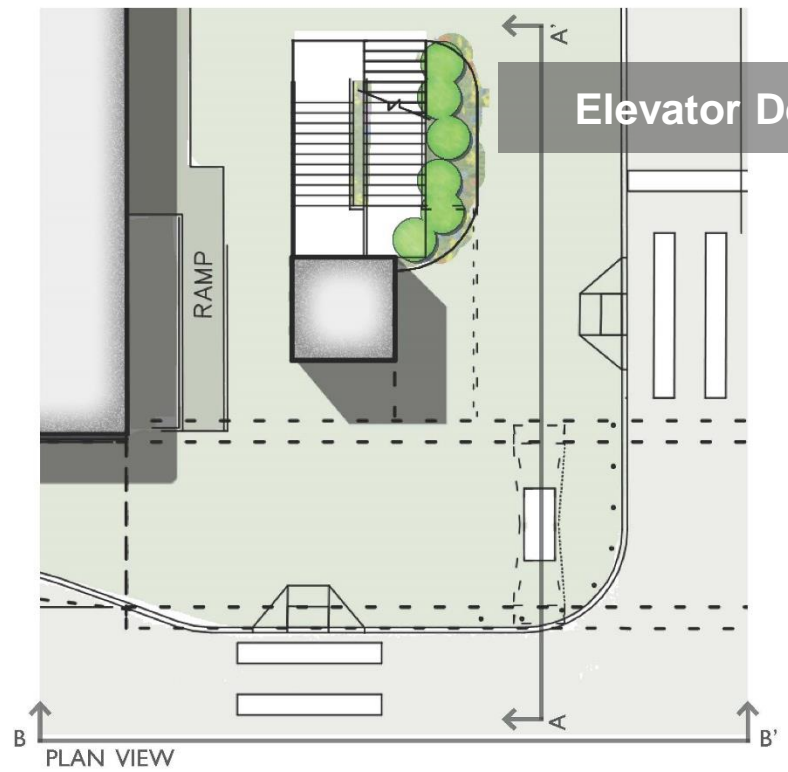




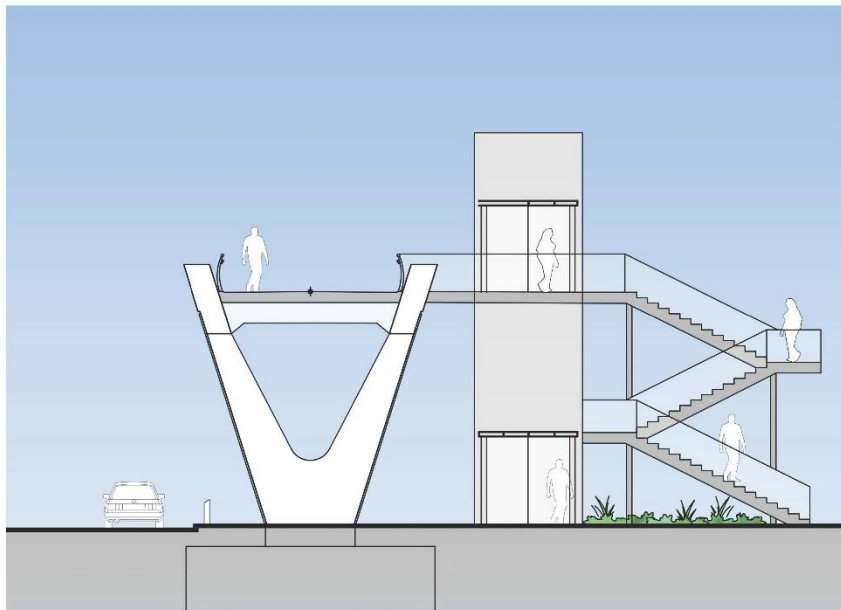




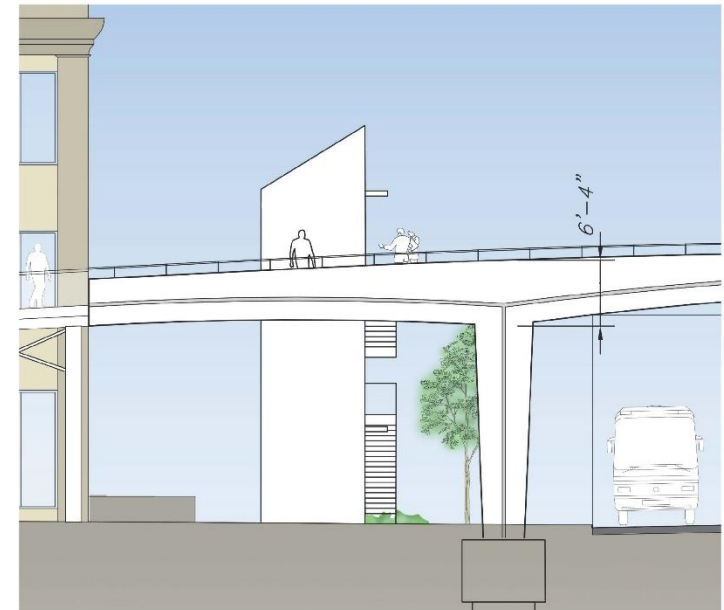
TYPICAL DECK SECTION



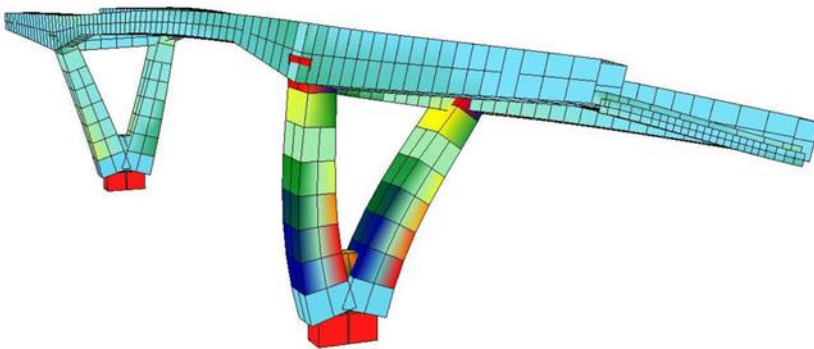
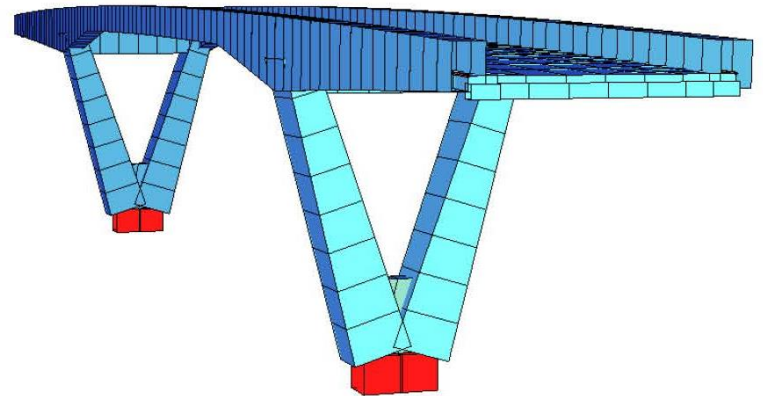
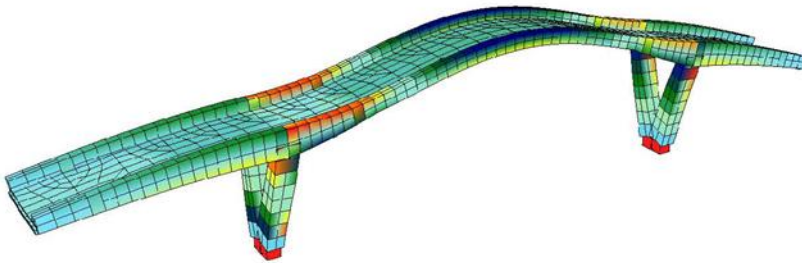
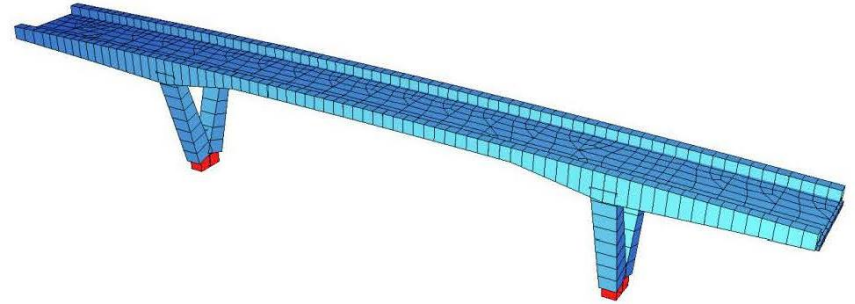
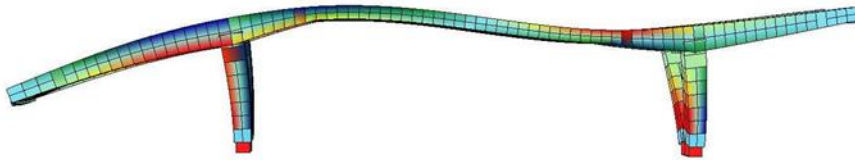
PLAN VIEW

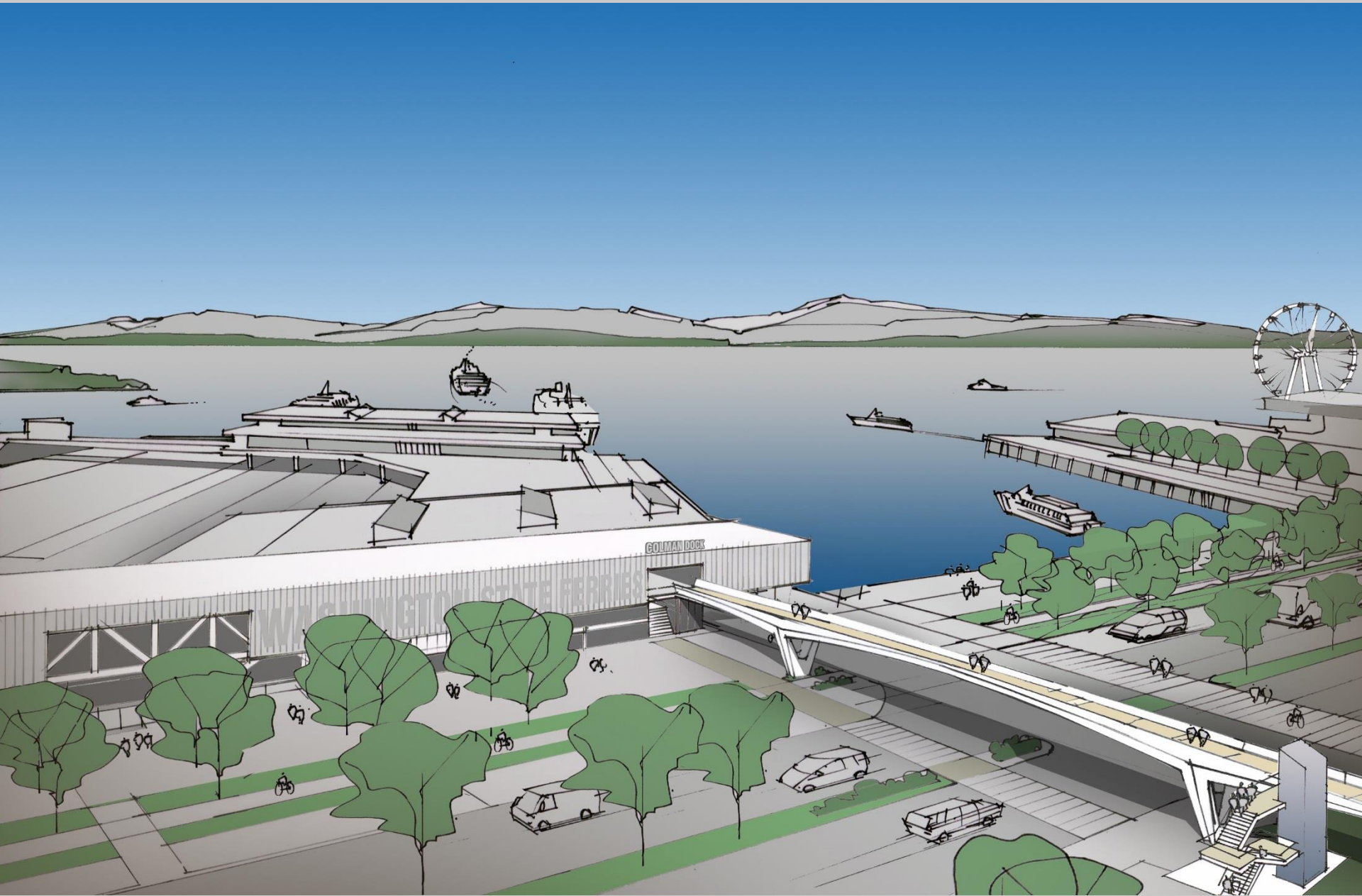


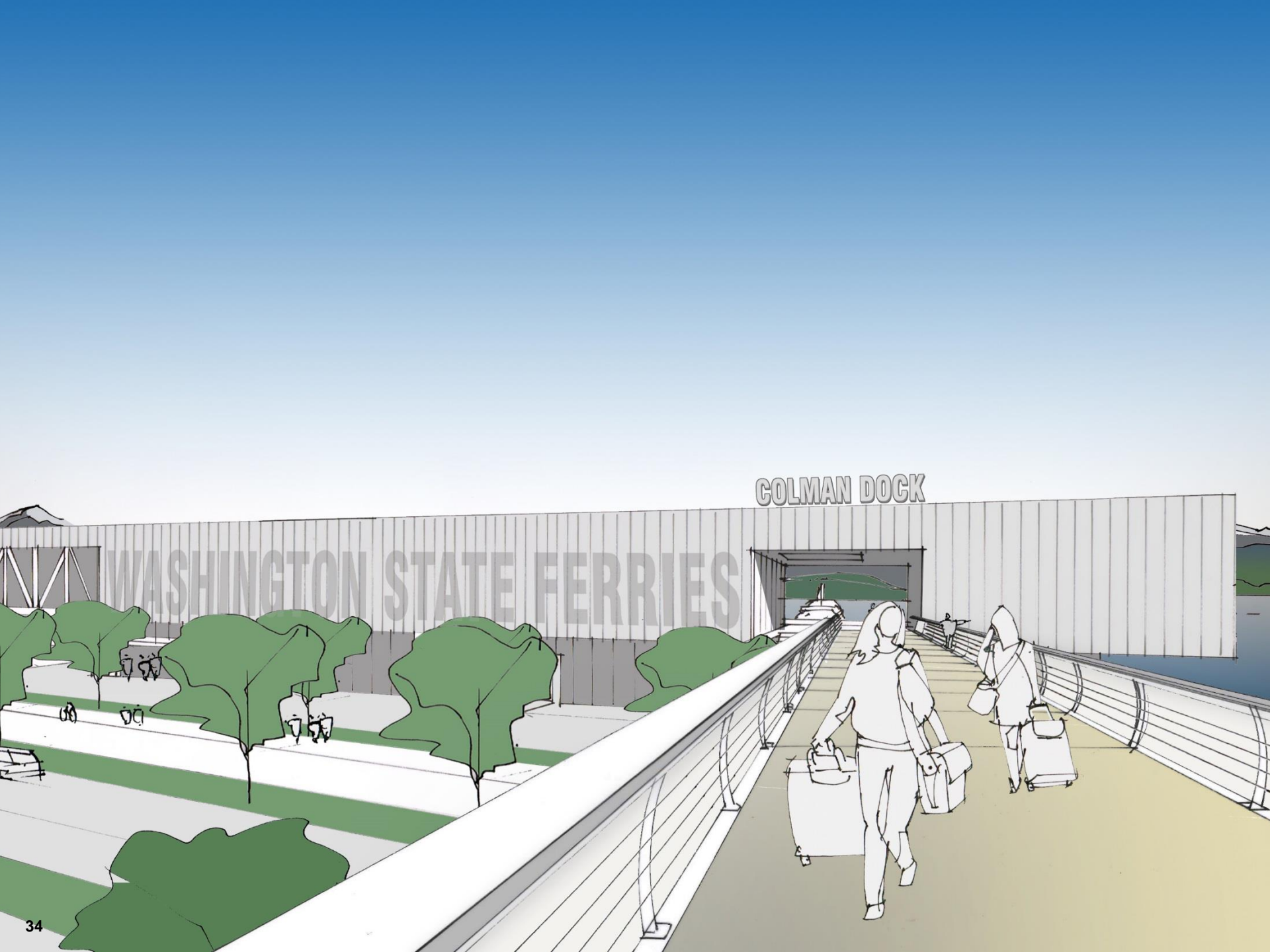
SECTION VIEW A-A'



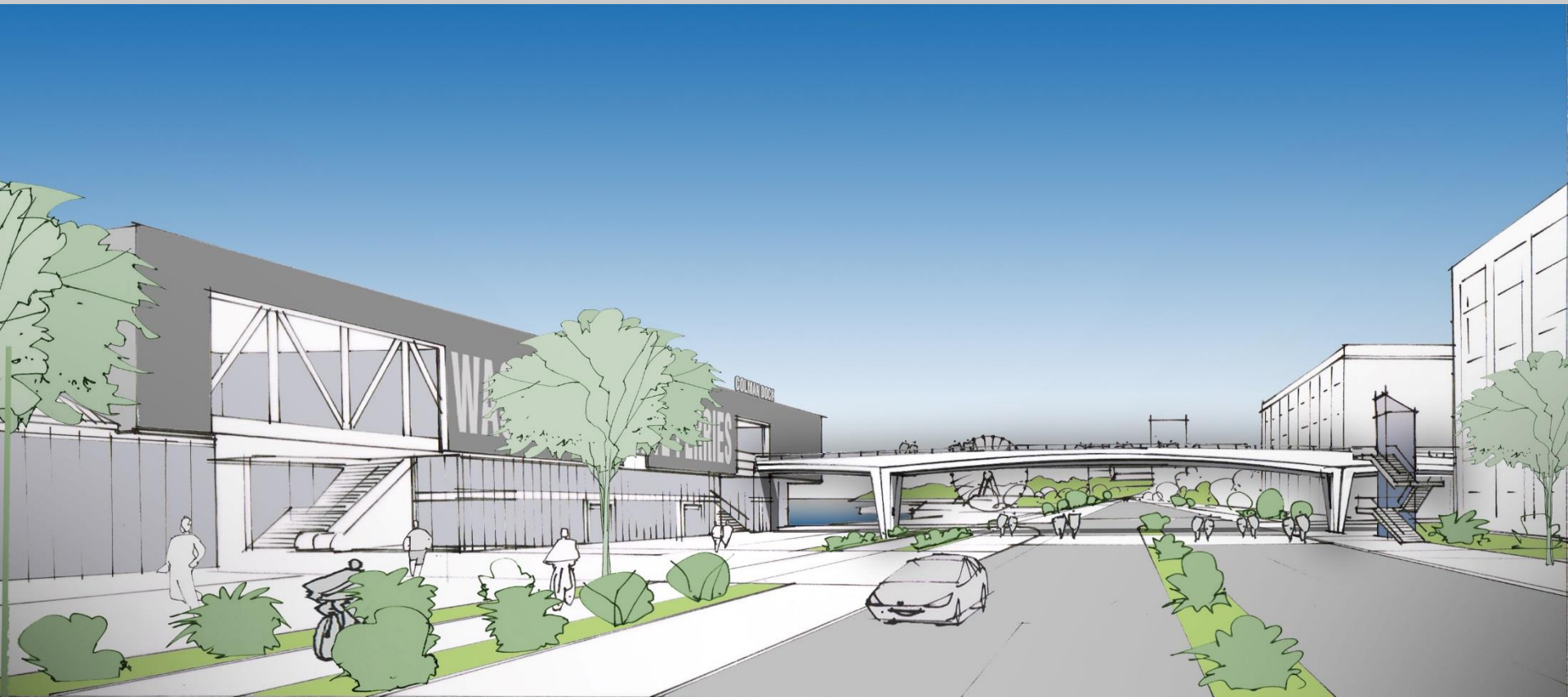
ELEVATION VIEW B-B'

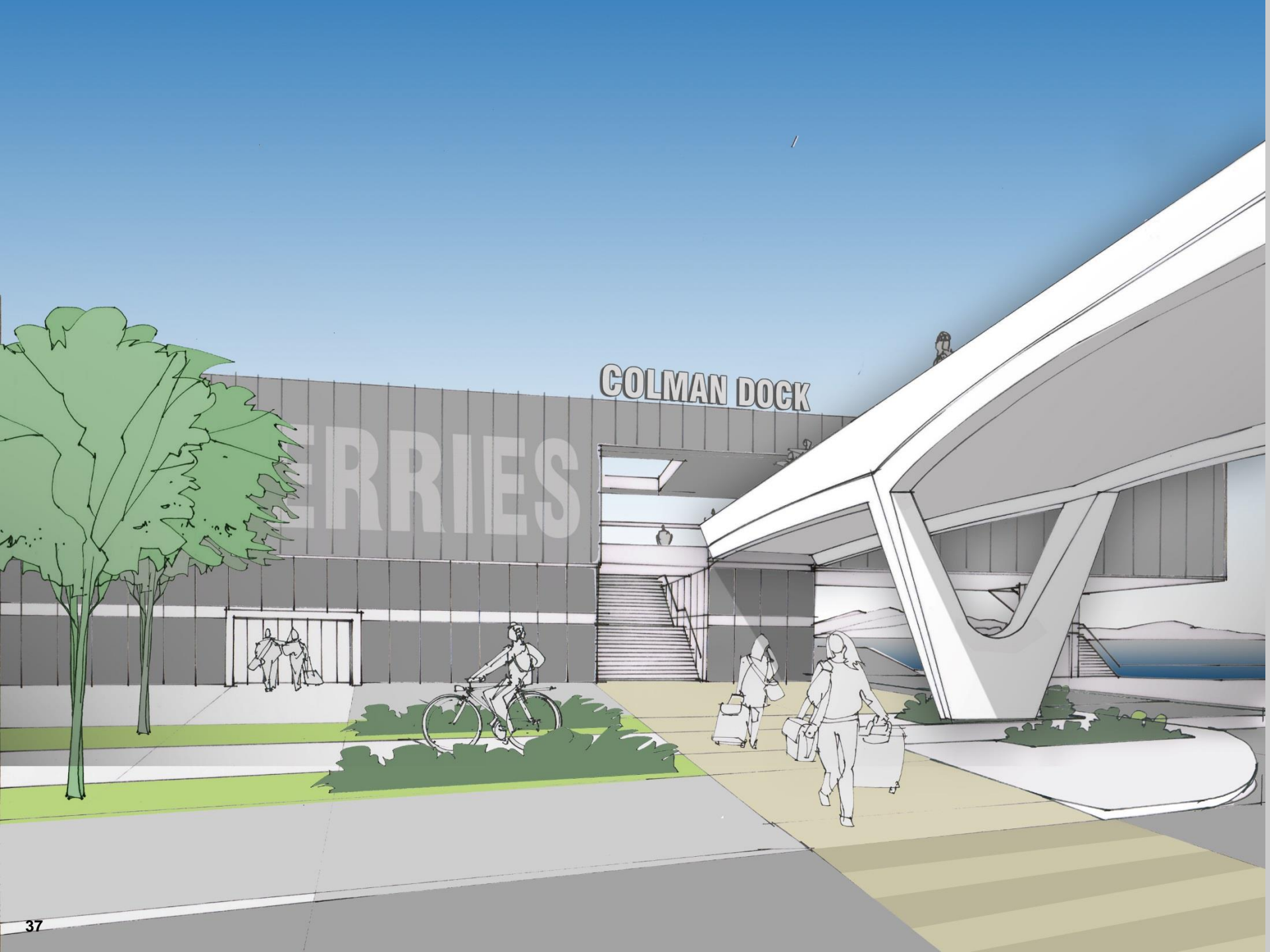








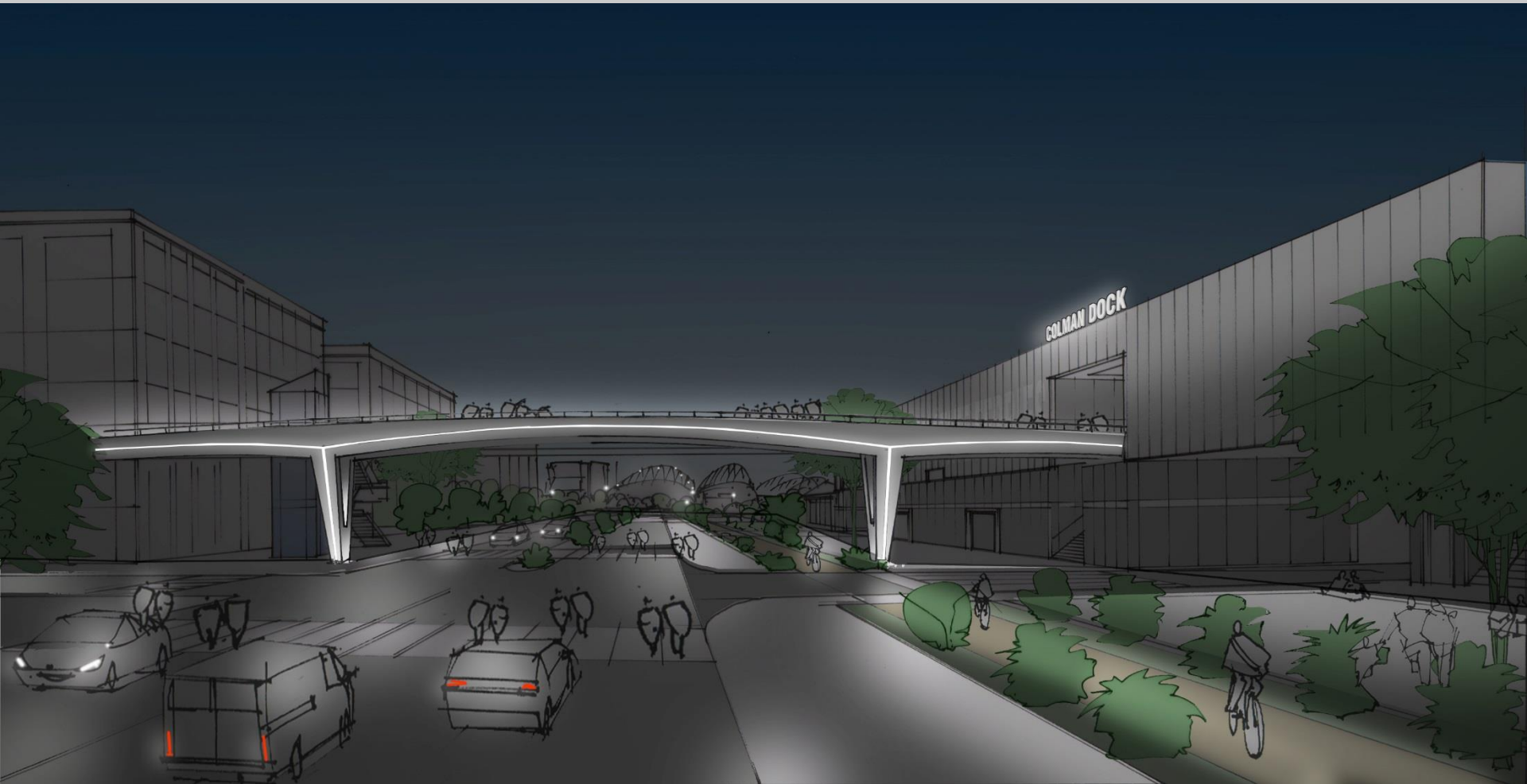




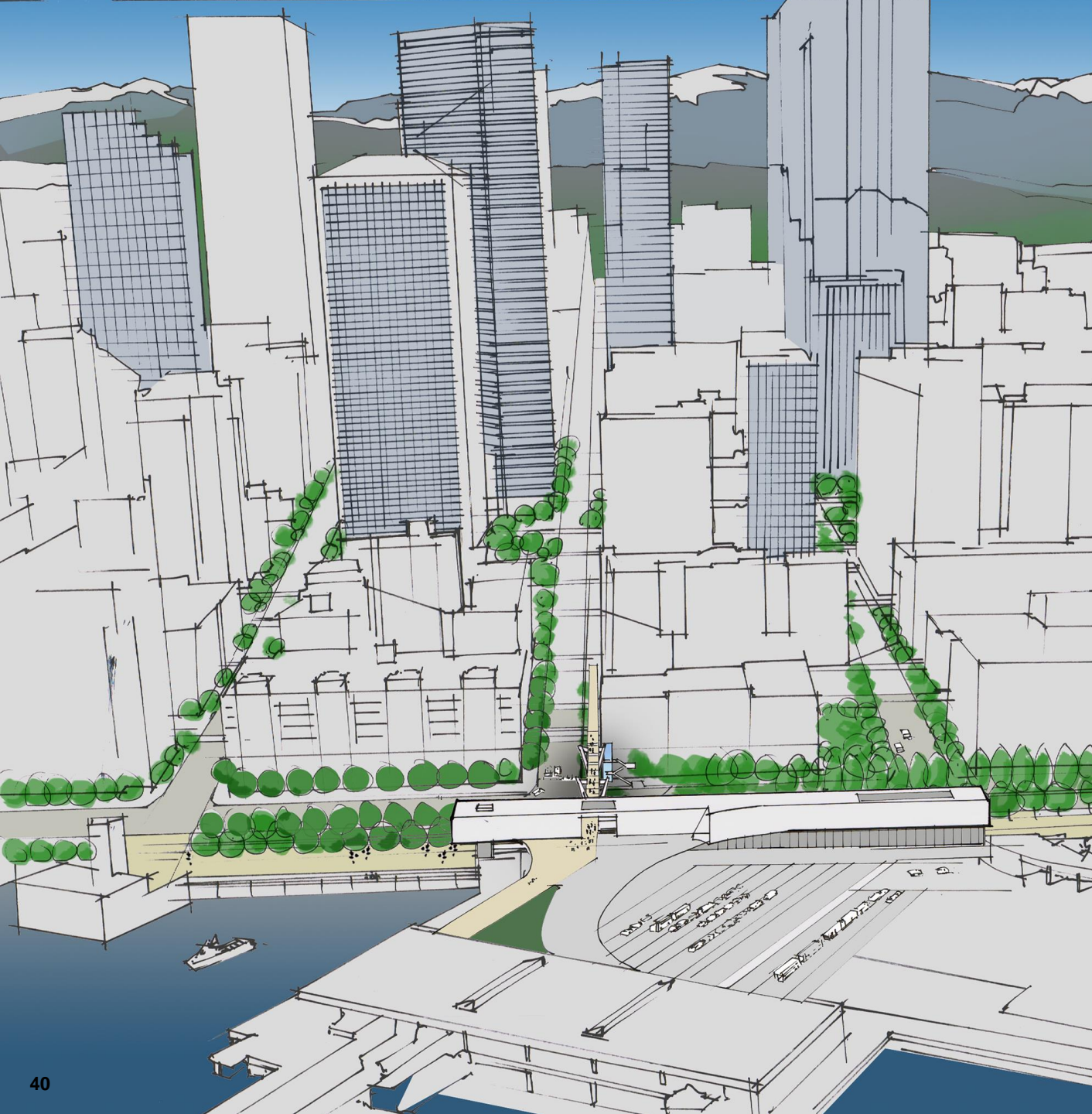


COLMAN DOCK

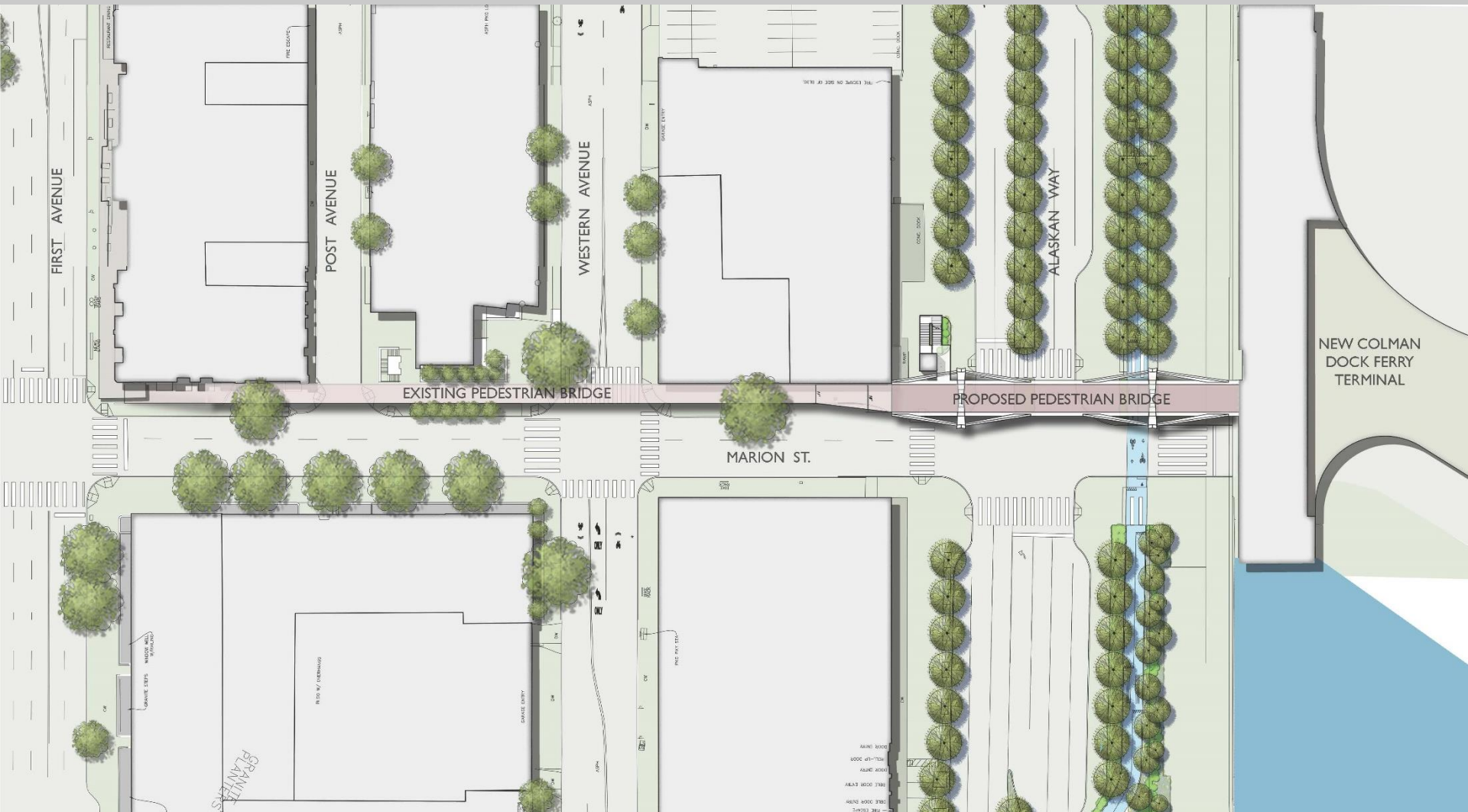
WASHINGTON STATE FERRIES



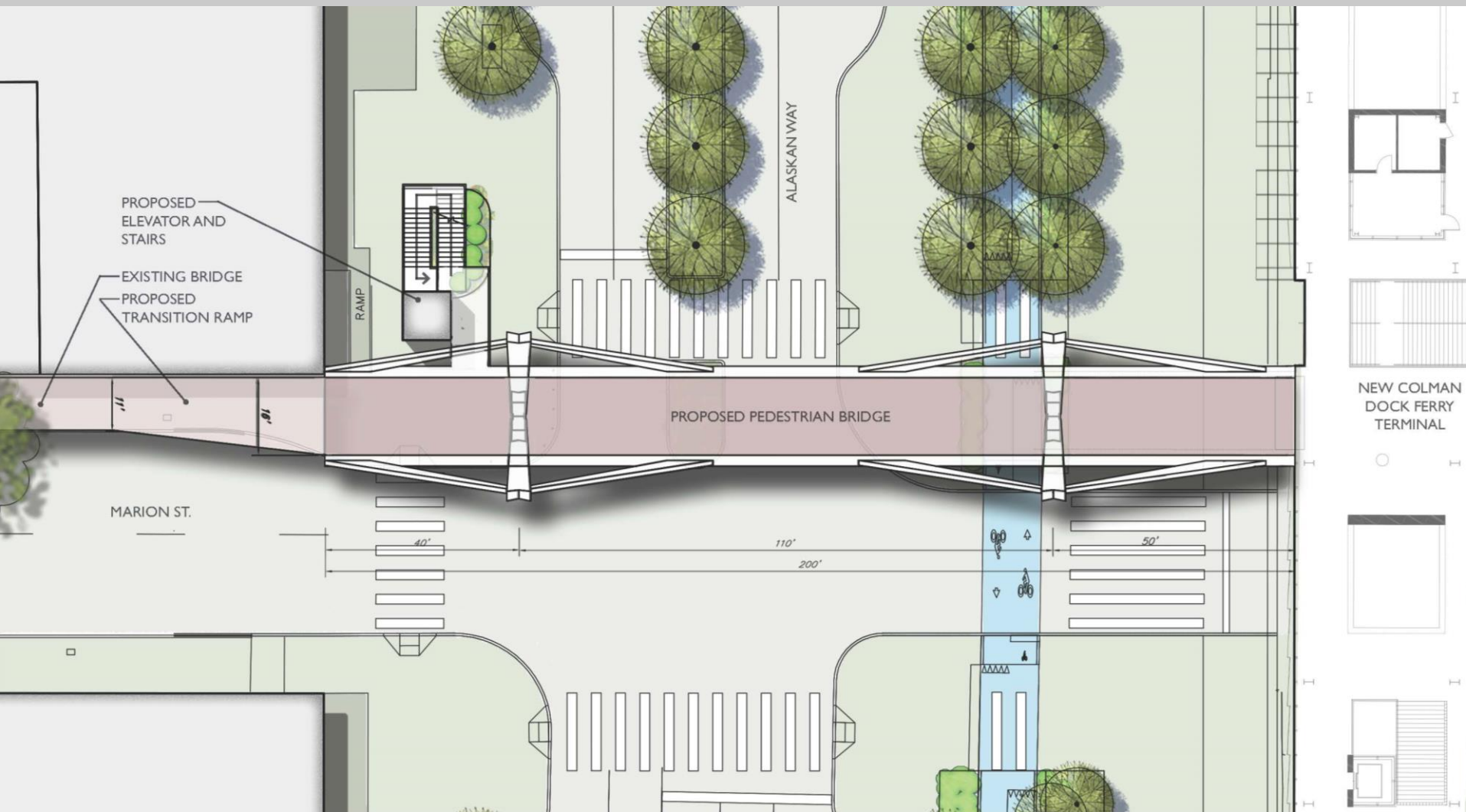
Extradosed CIP Concrete Option



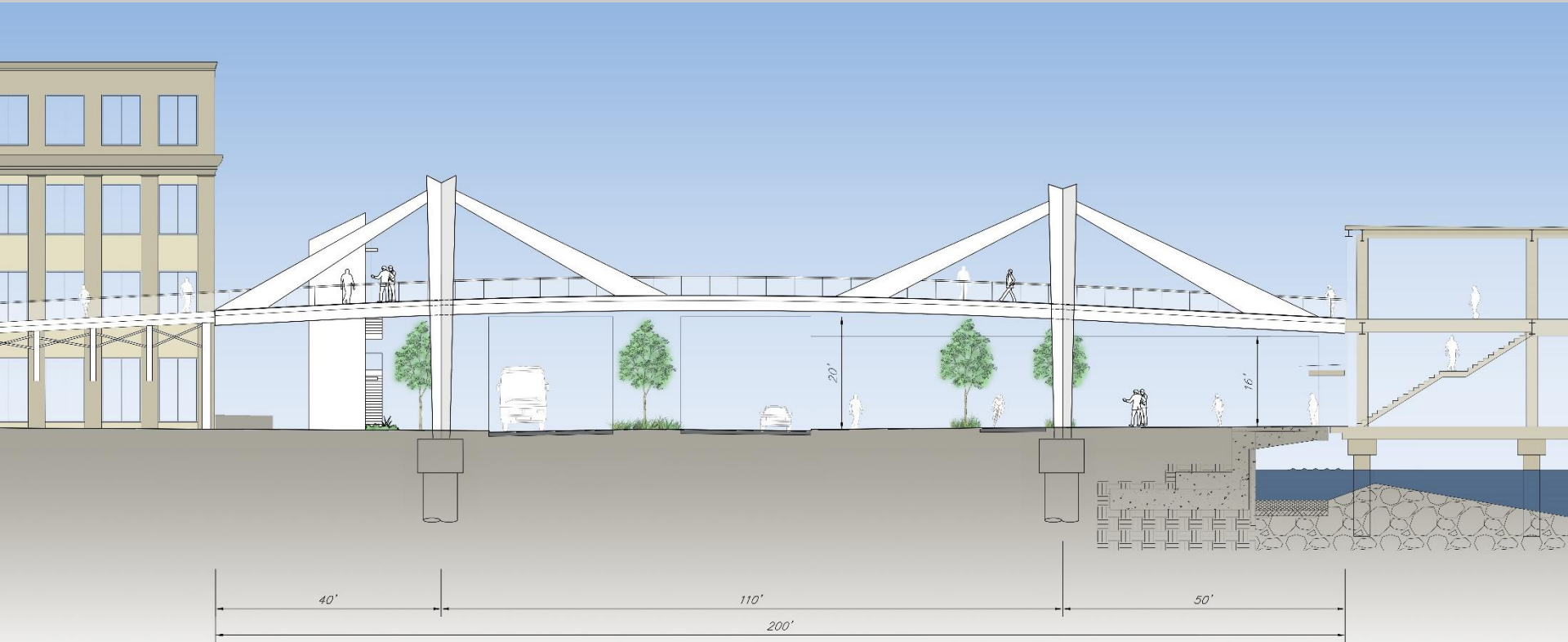
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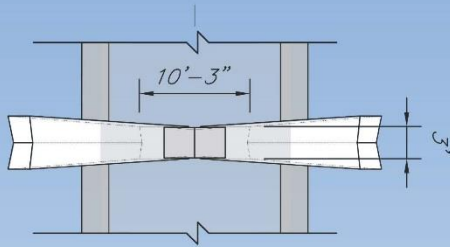


Plan at Bridge Level

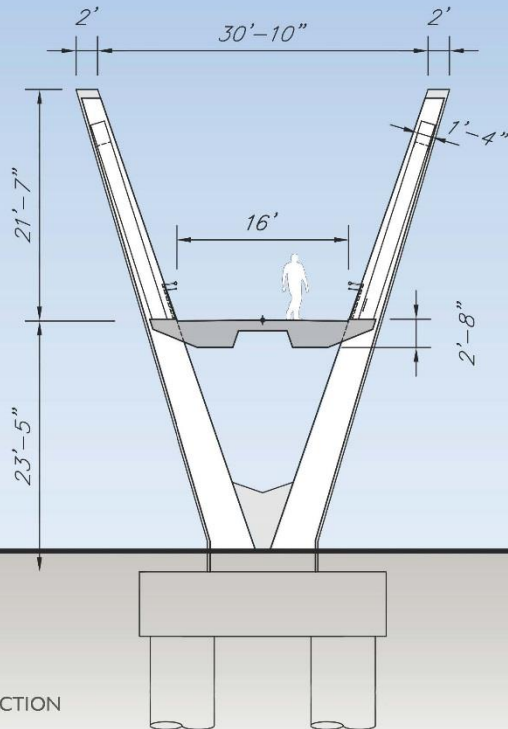




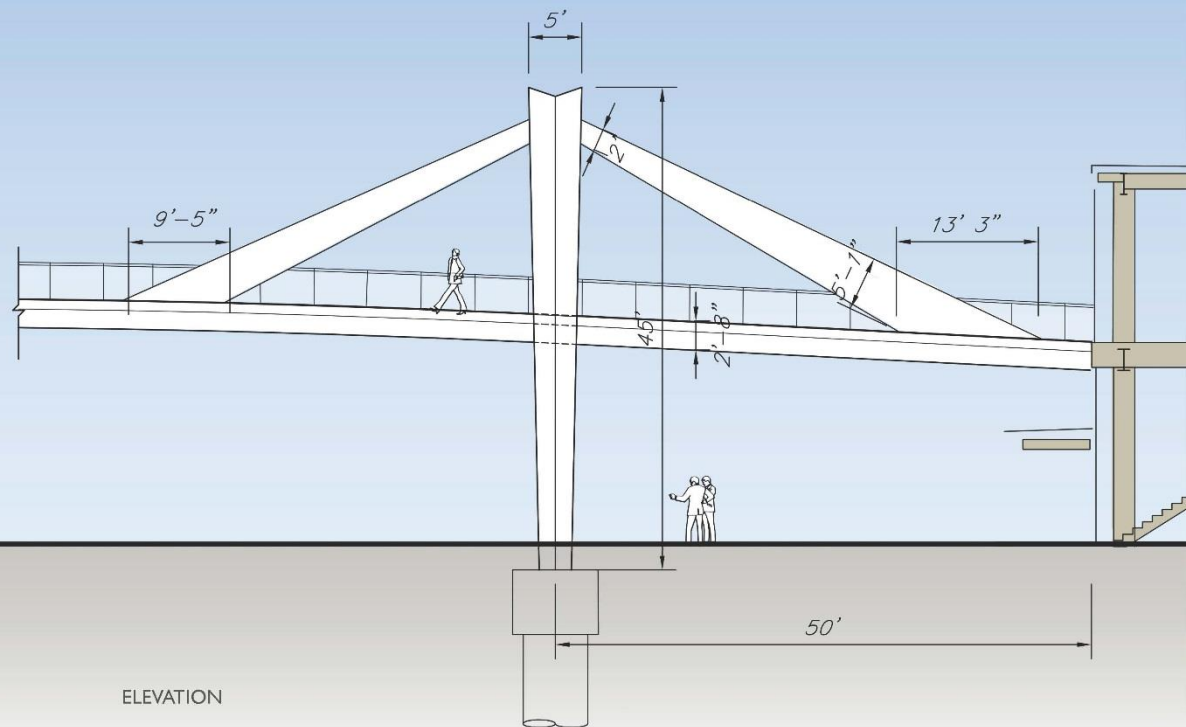




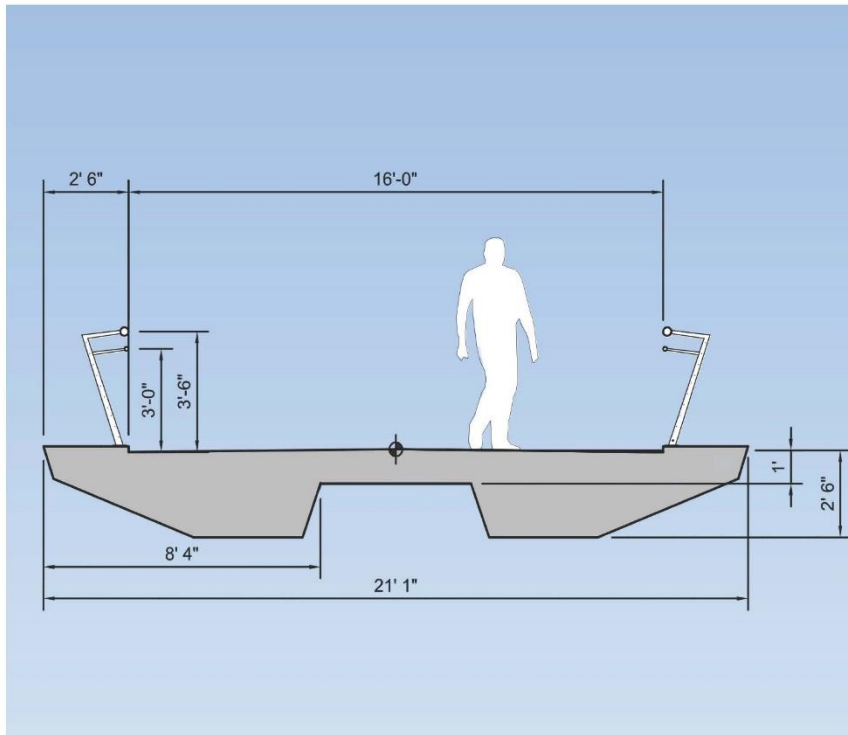
PLAN



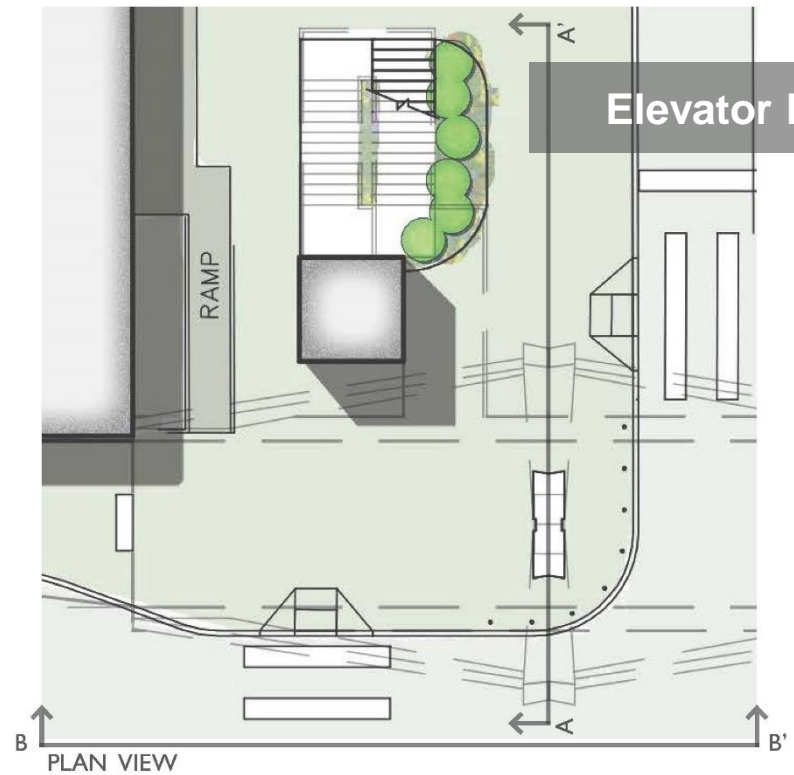
SECTION



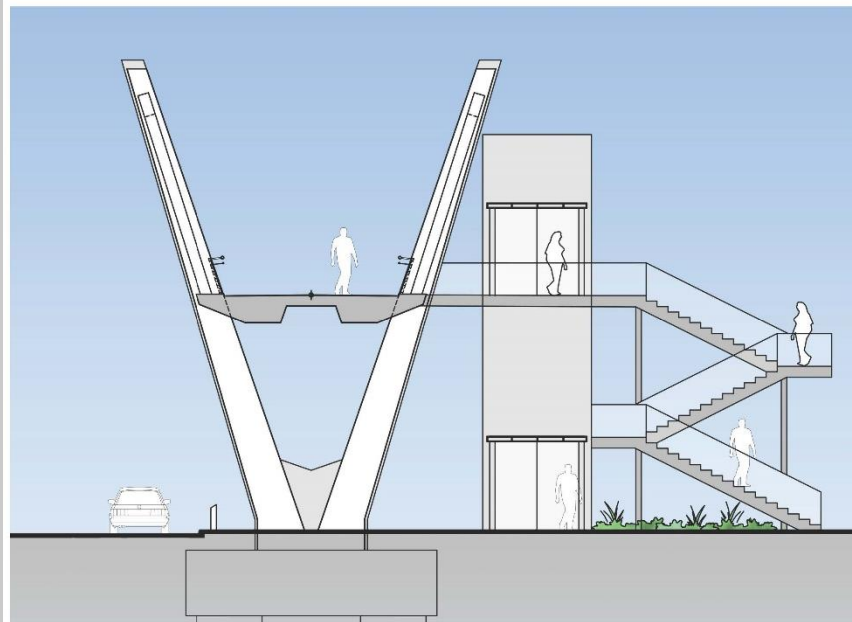
ELEVATION



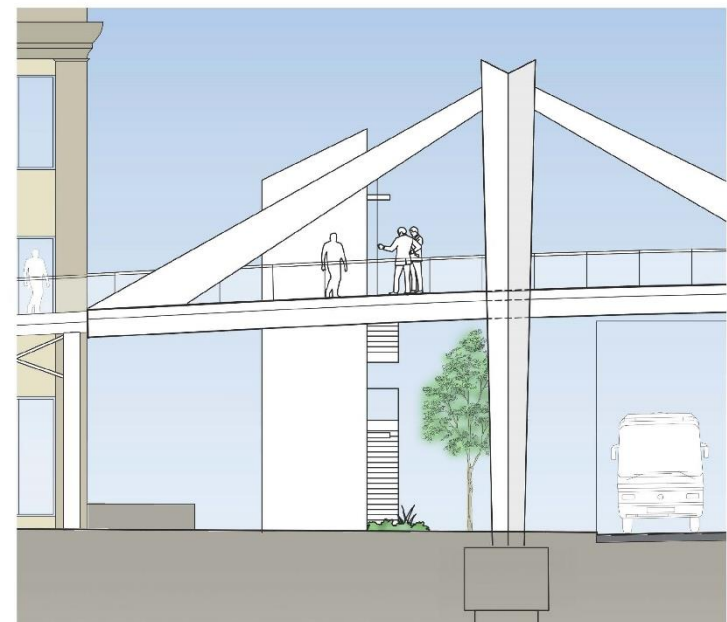
TYPICAL DECK SECTION



Elevator Detail

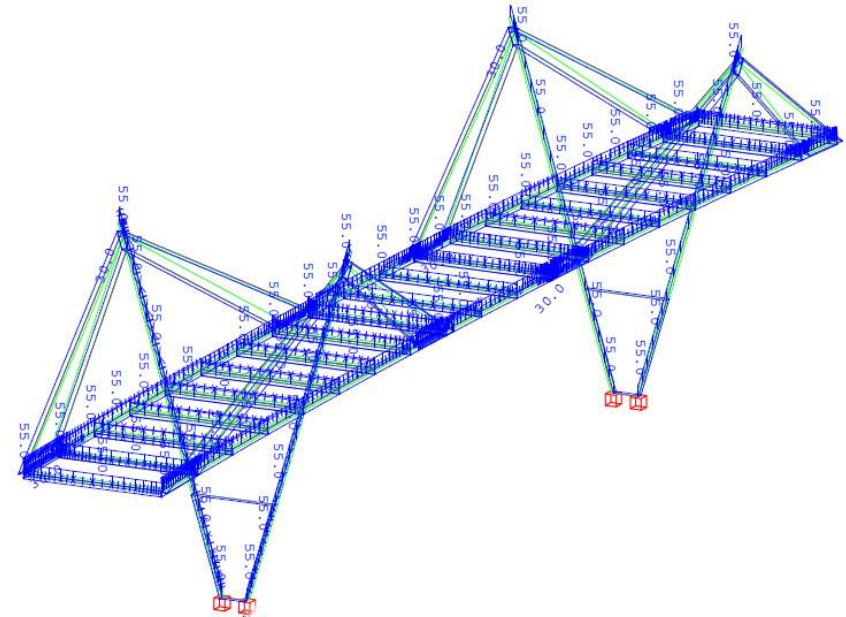
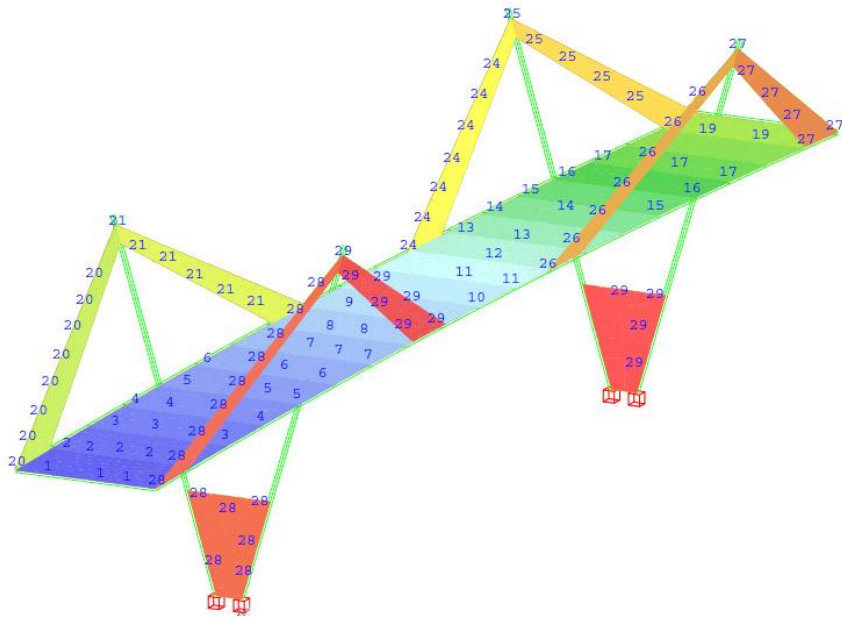
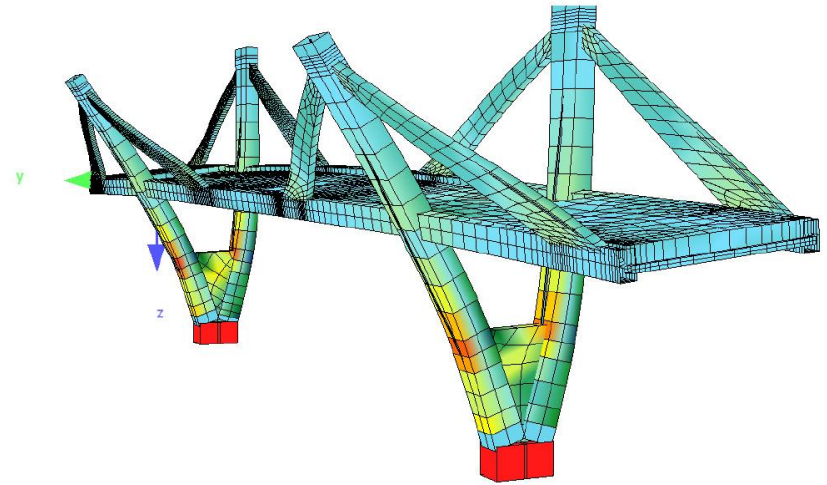
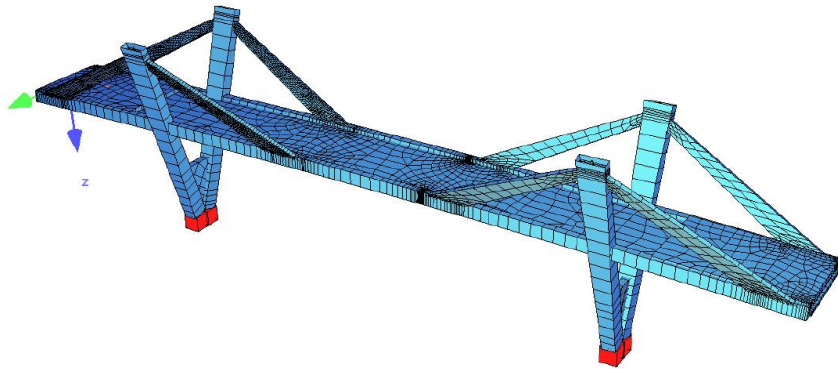


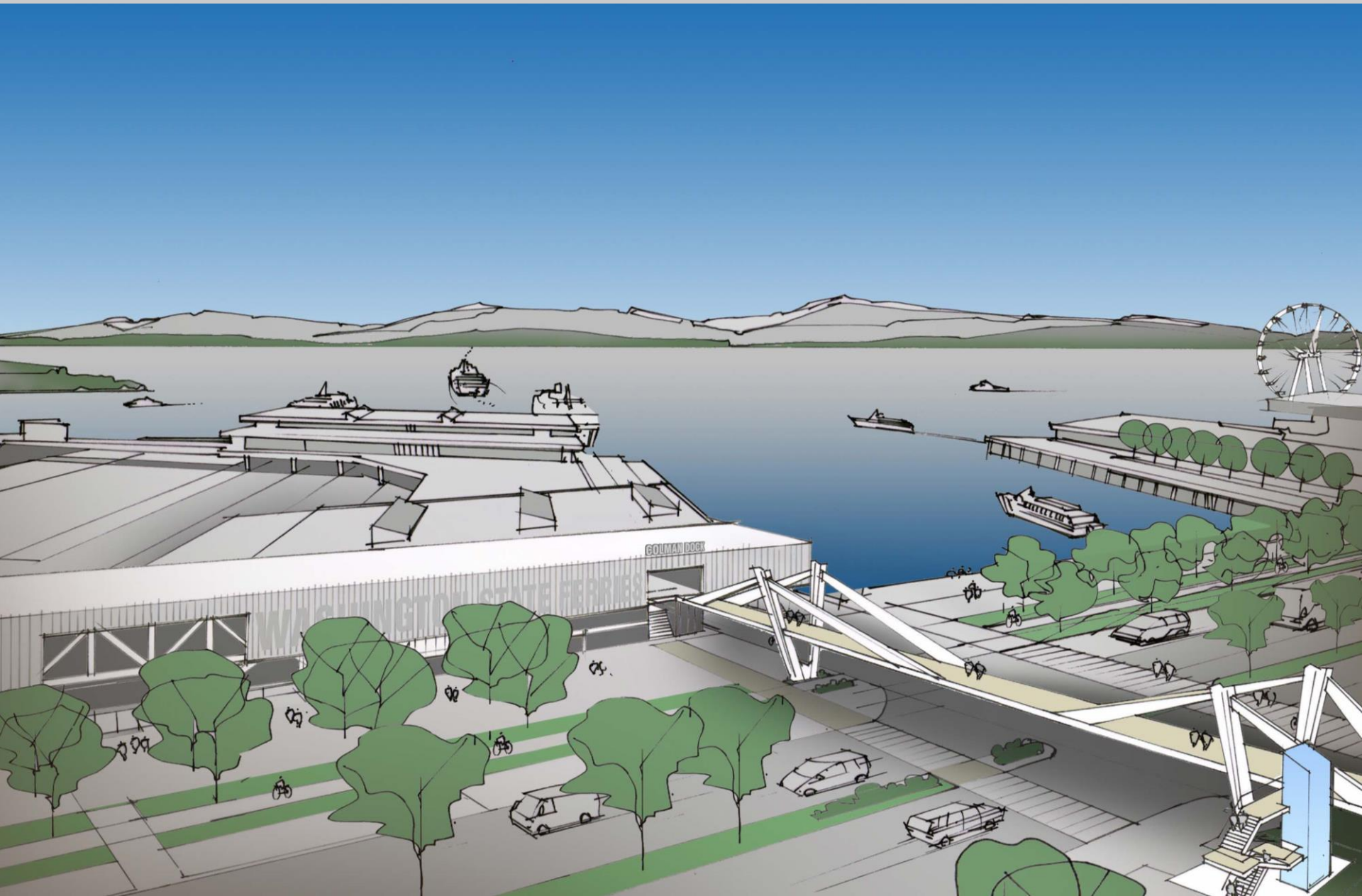
SECTION VIEW A-A'

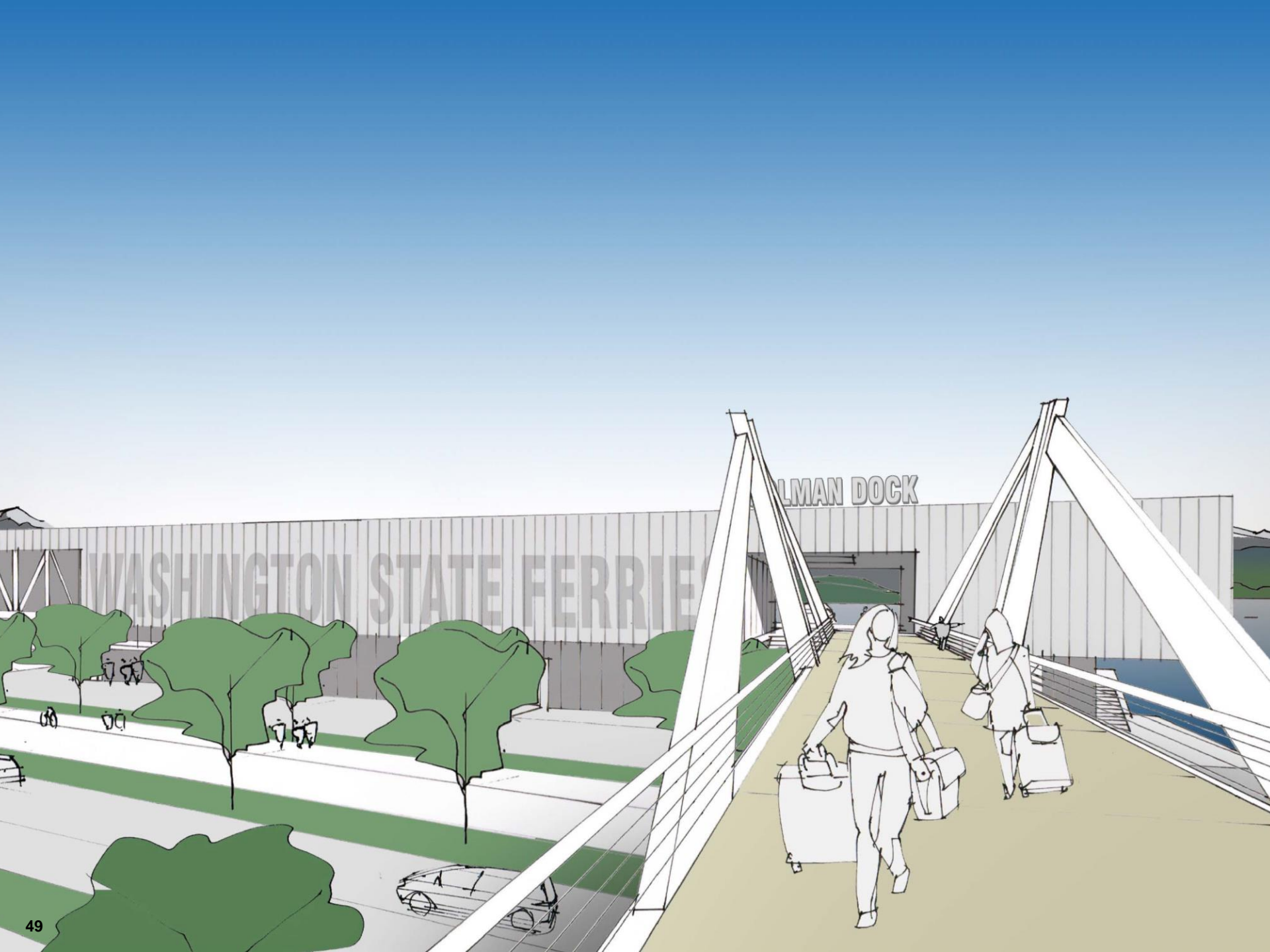


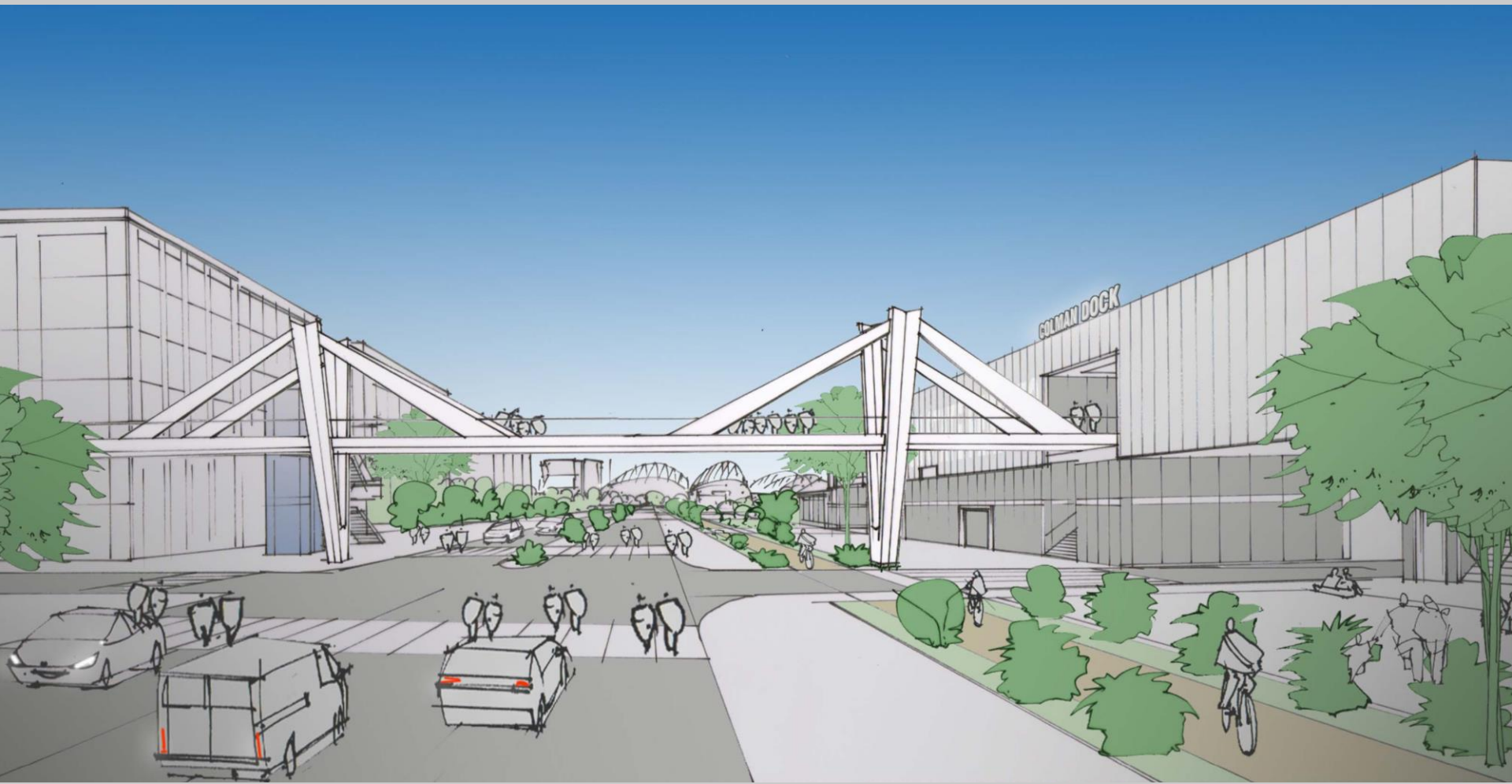
ELEVATION VIEW B-B'

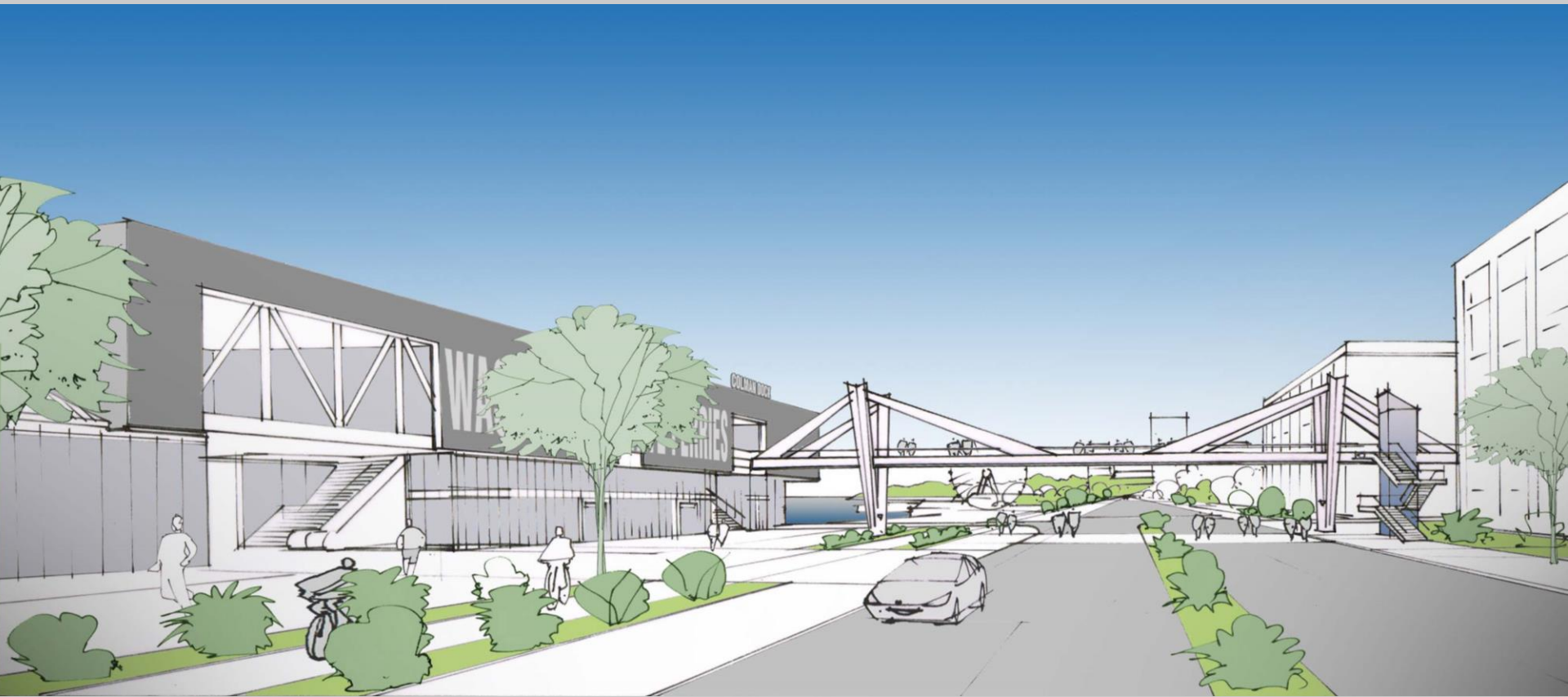
Preliminary Structural Analysis

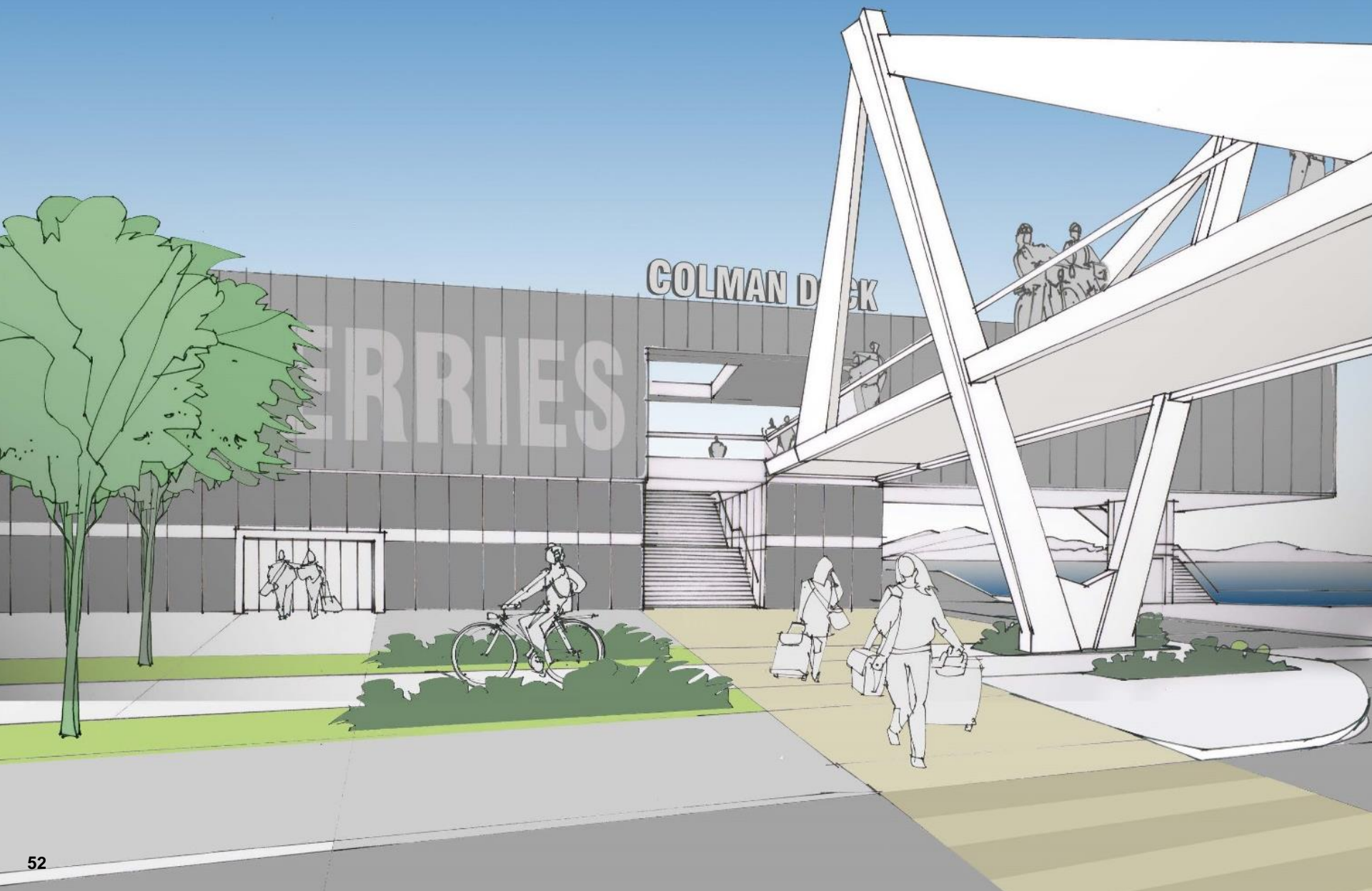








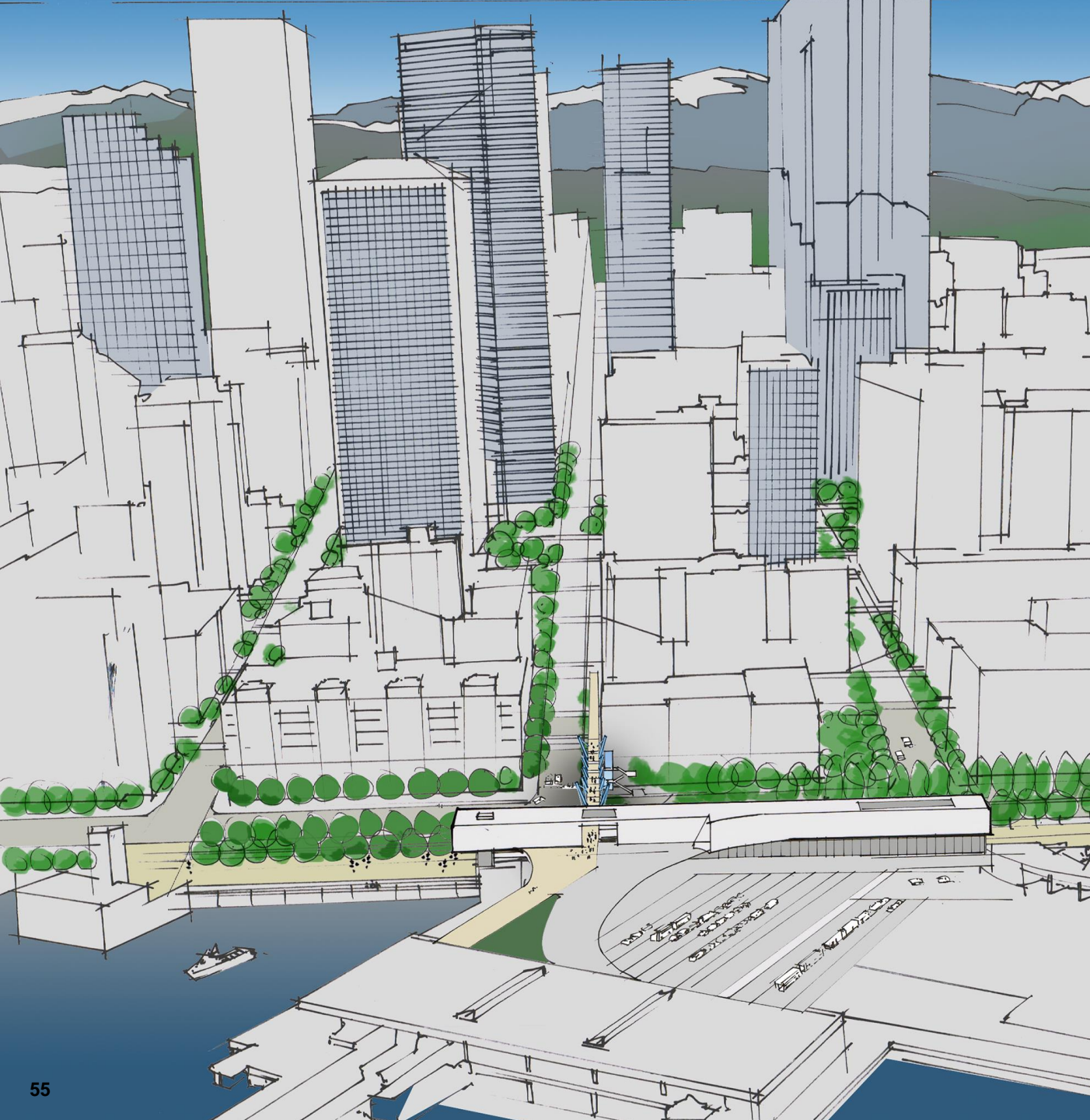




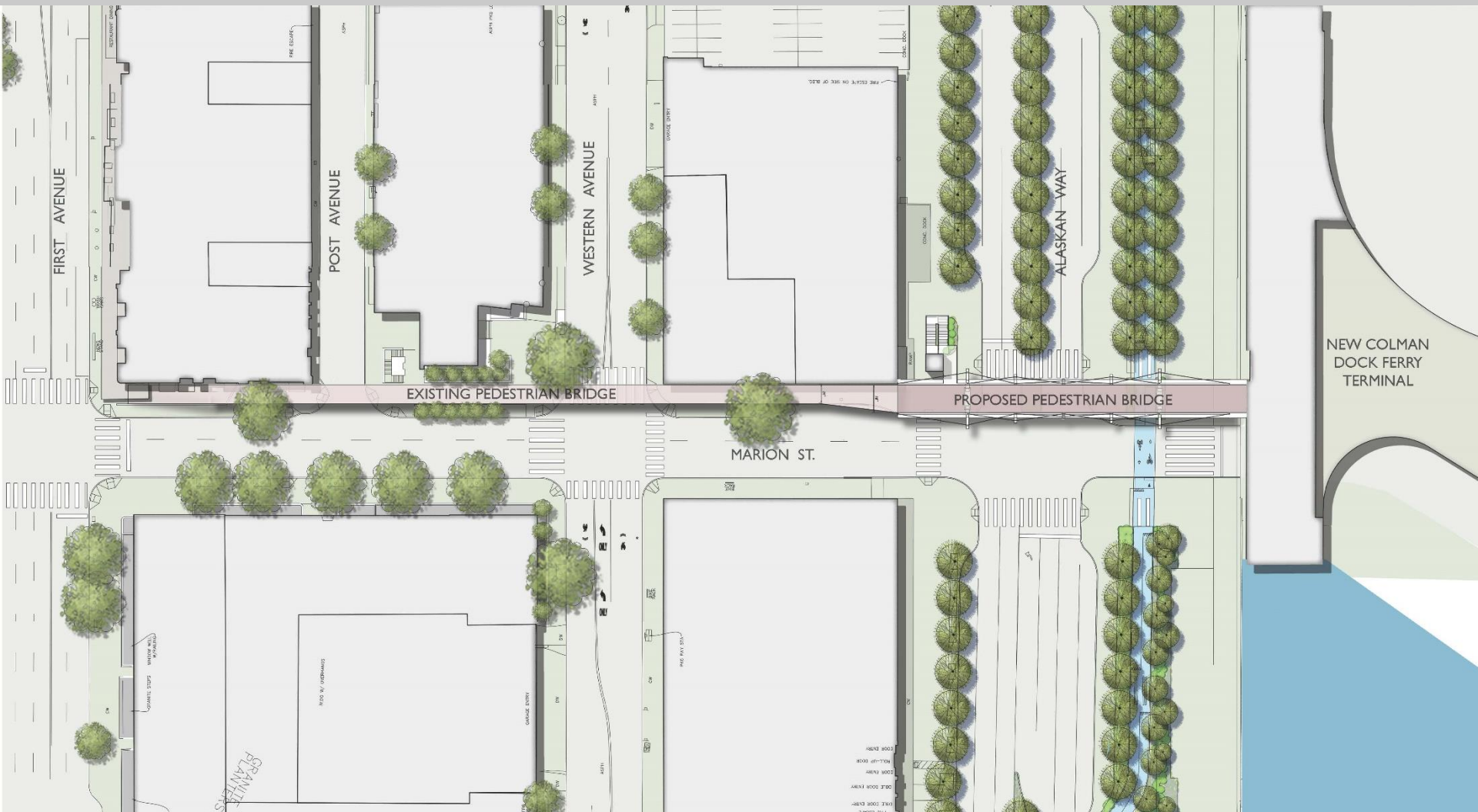




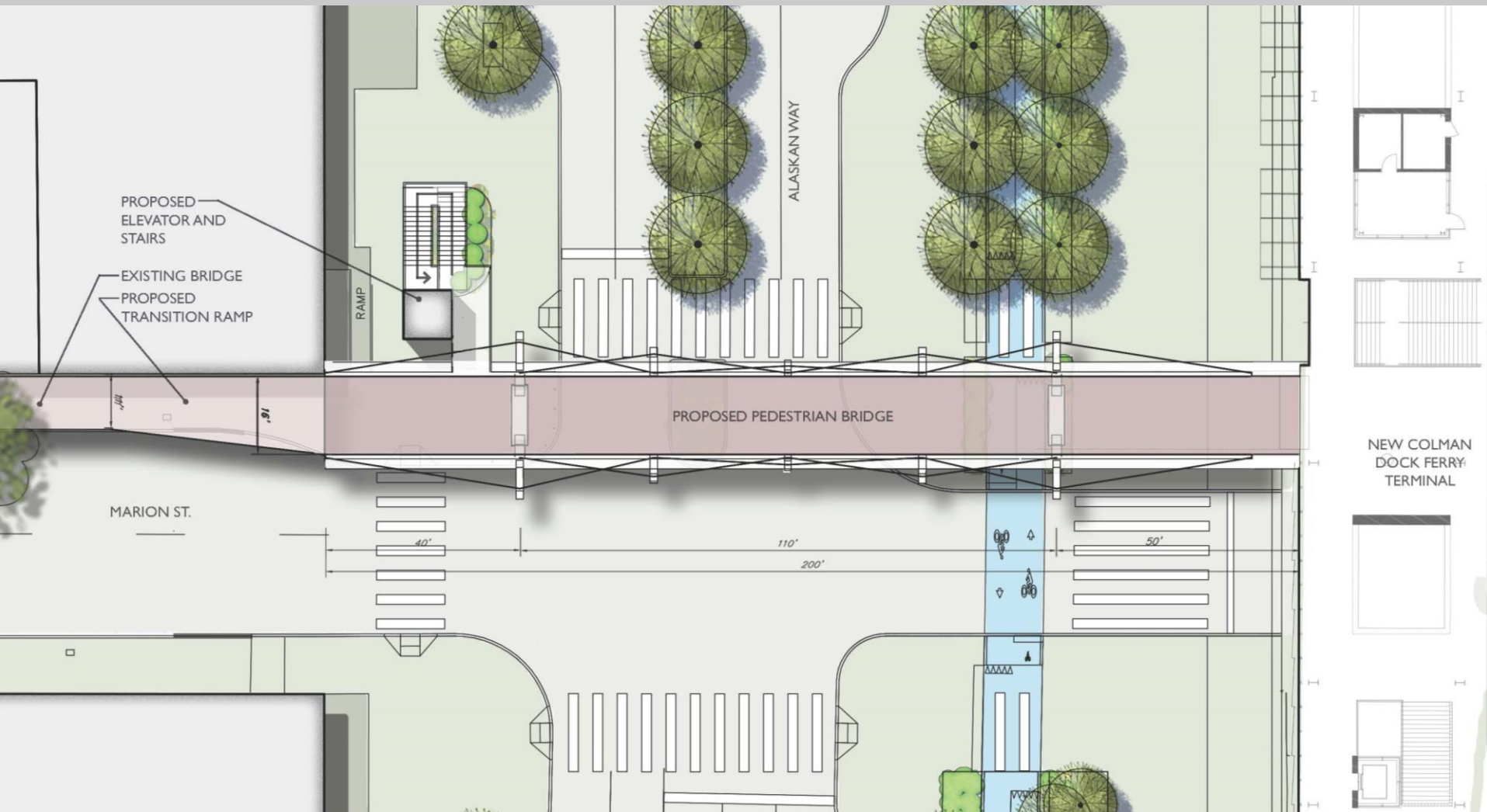
Fink Truss Steel Option



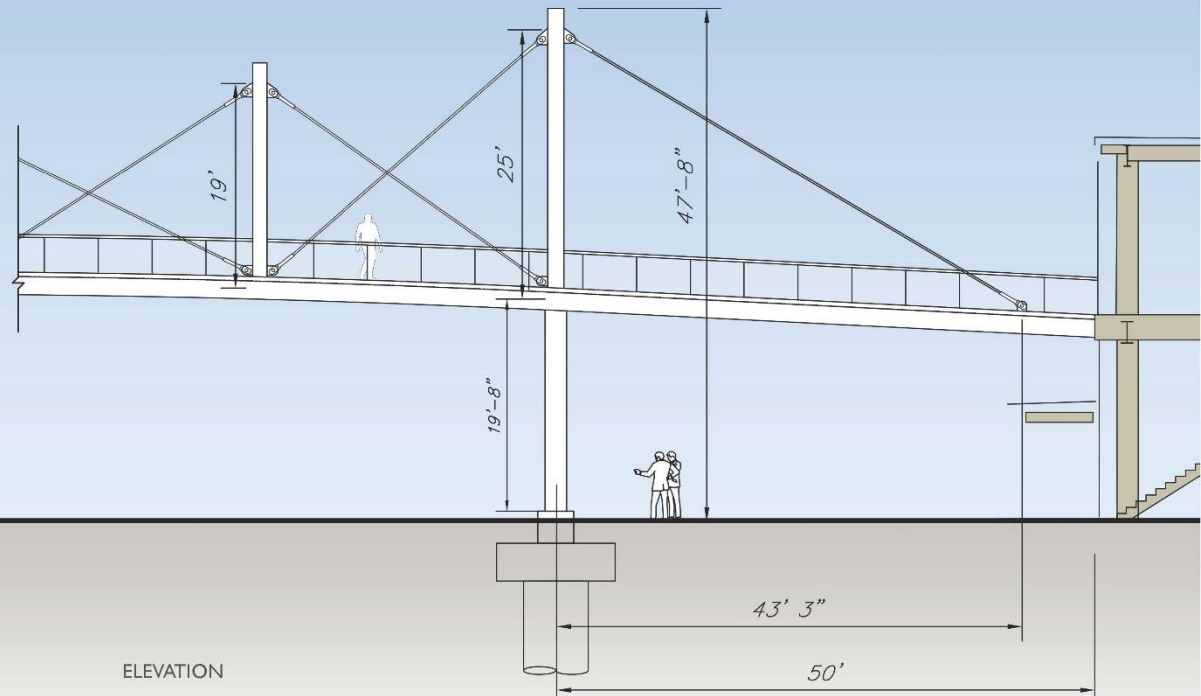
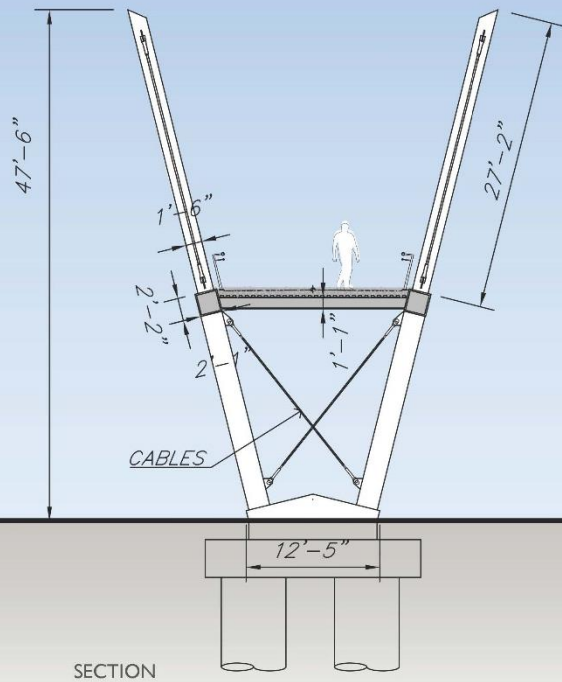
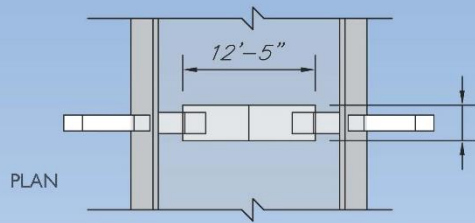
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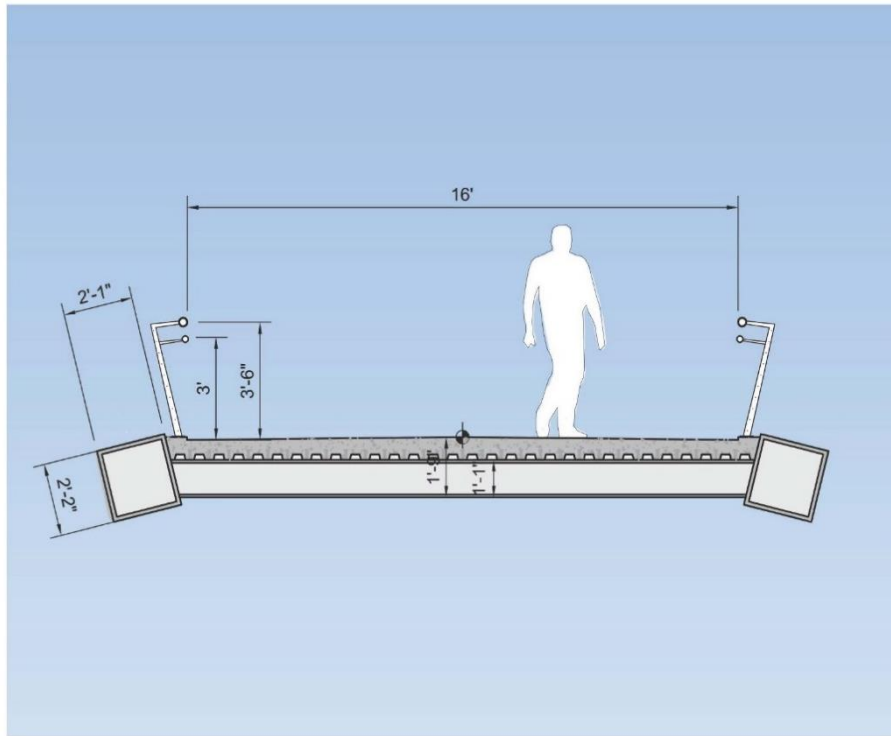


Plan at Bridge Level

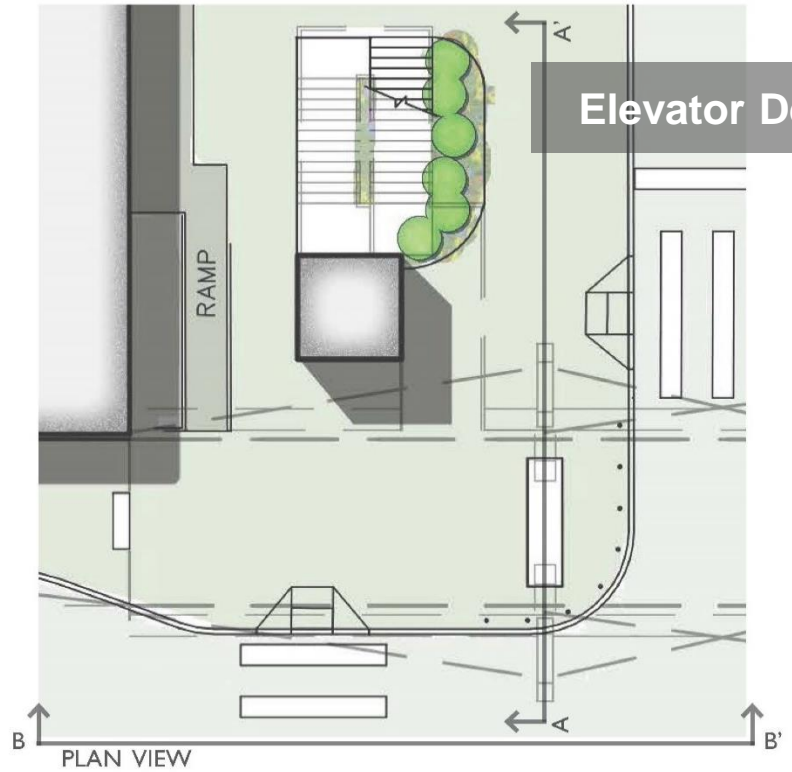




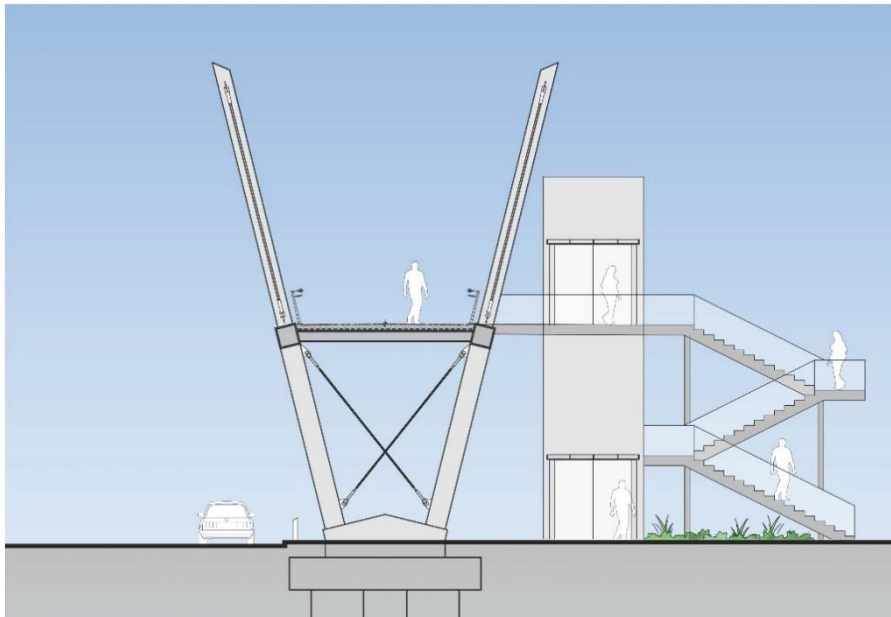




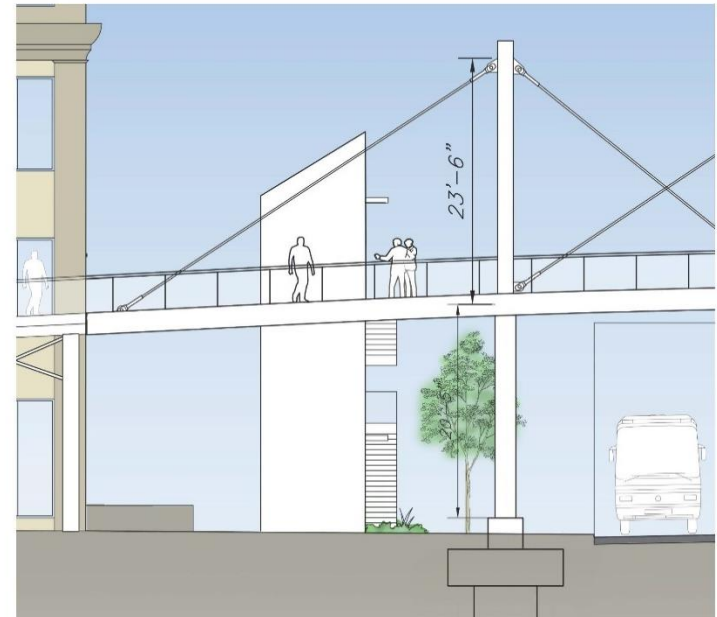
TYPICAL DECK SECTION



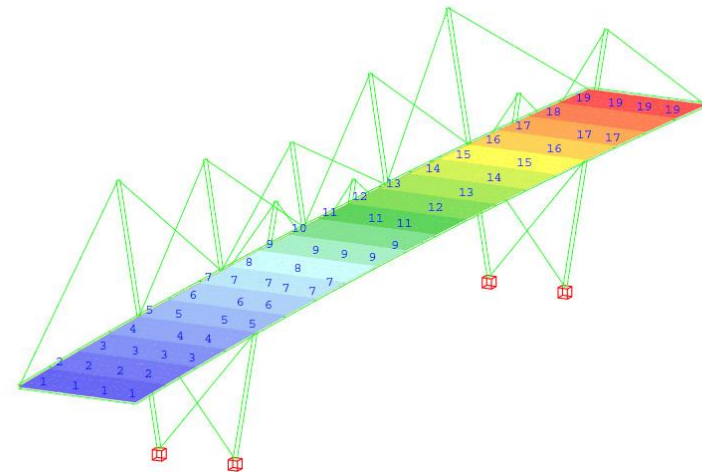
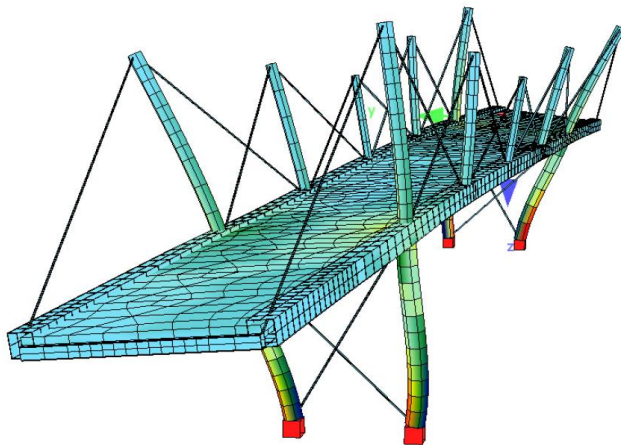
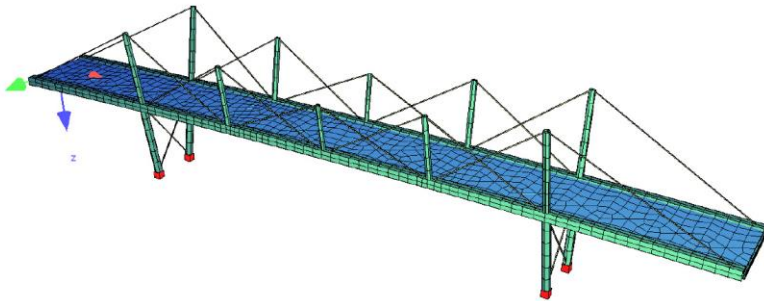
Elevator Detail

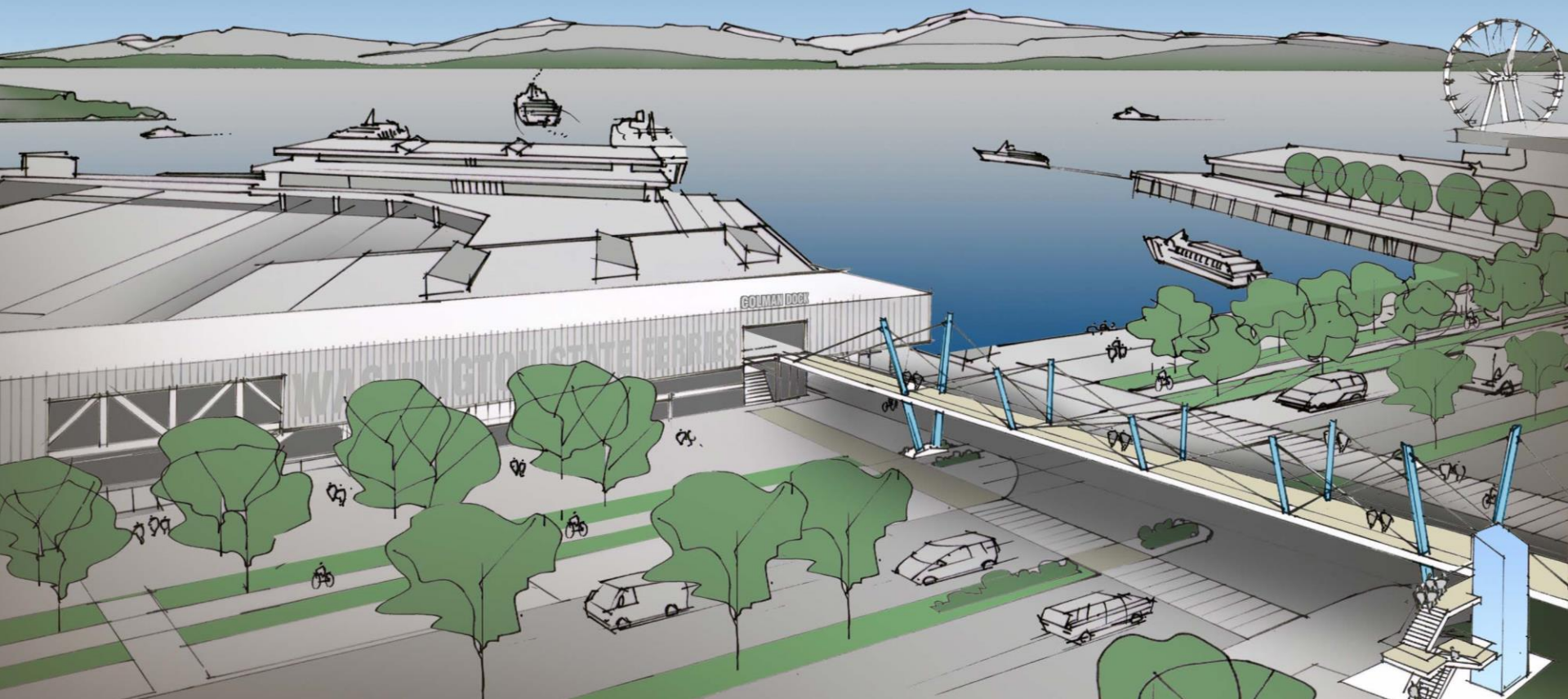


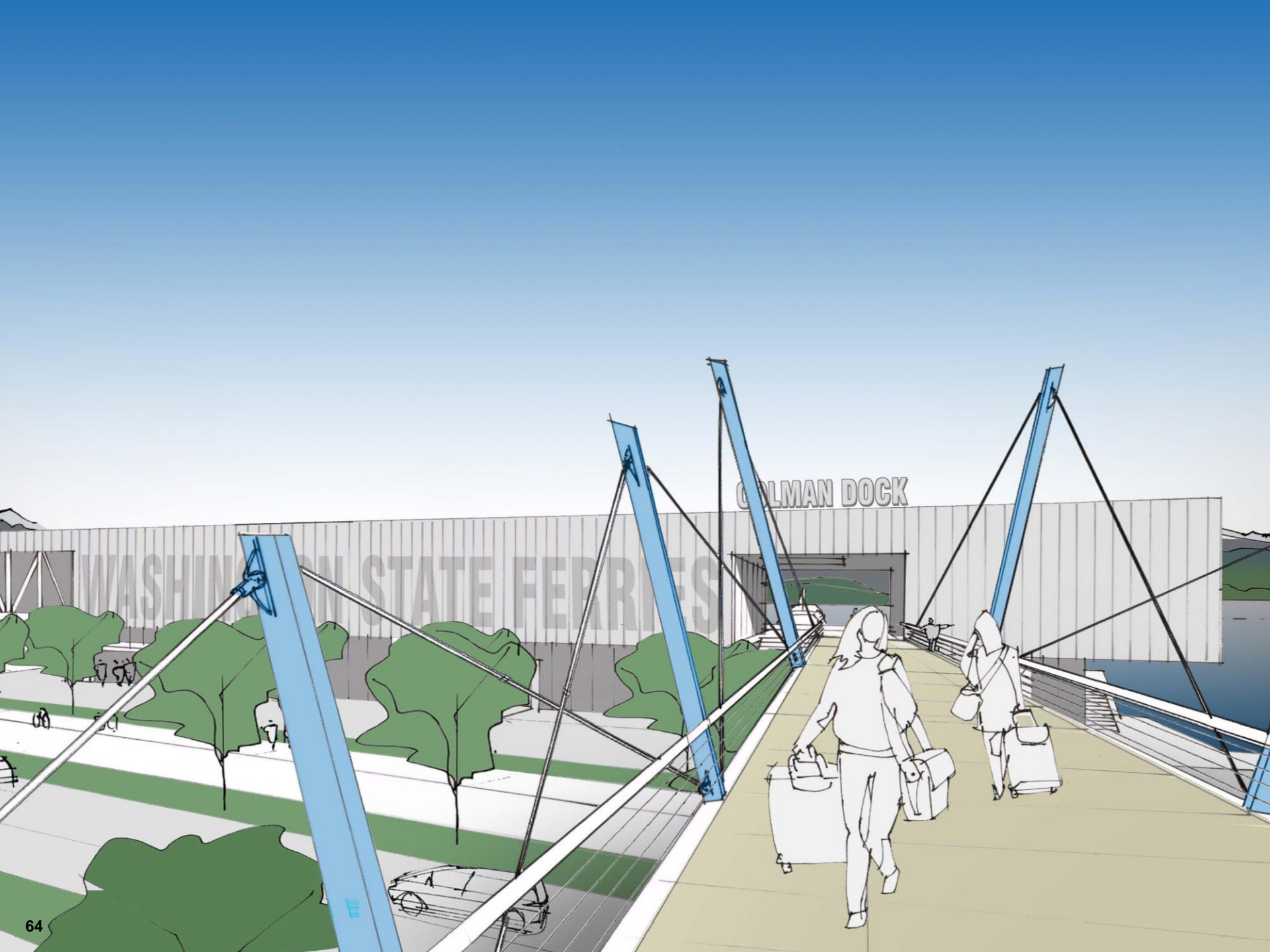
SECTION VIEW A-A'



ELEVATION VIEW B-B'

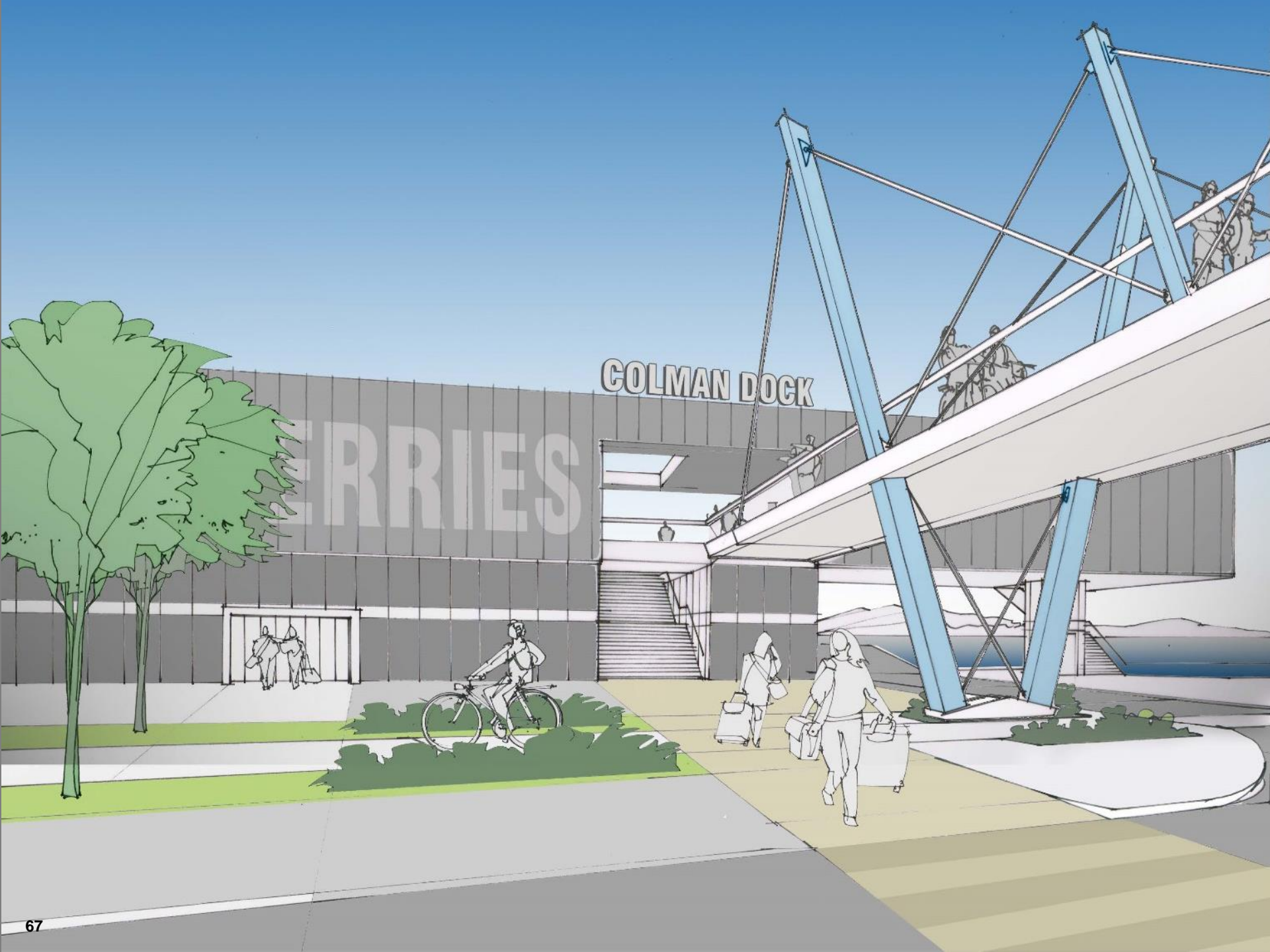
















Preferred Alternative Workshop:	February 19th, 2016
Submit Draft Structures Recommendation Memo:	March 4th, 2016
Review of Structures Recommendation Memo Meeting:	March 14th, 2016
Submit Final Structures Recommendation Memo:	March 29th, 2016

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Preliminary Concepts

QUESTIONS AND ANSWERS

