

North Saskatchewan River Bridge

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- The new LRT bridge to be built on the existing pedestrian bridge alignment.
- New LRT bridge to incorporate new pedestrian and bicycle facilities under the bridge deck.
- Existing pedestrian bridge to be demolished prior to new LRT bridge construction.
- During construction, pedestrians and bicyclists will be detoured to Low Level Bridge.
- The project team assessed the feasibility of maintaining the existing pedestrian bridge during construction. Due to increased environmental impact on the River and proximity to existing residential development, this option is not being pursued.



Option 1 - Cable stayed bridge looking Northwest



Option 1 - Cable stayed bridge looking Southeast



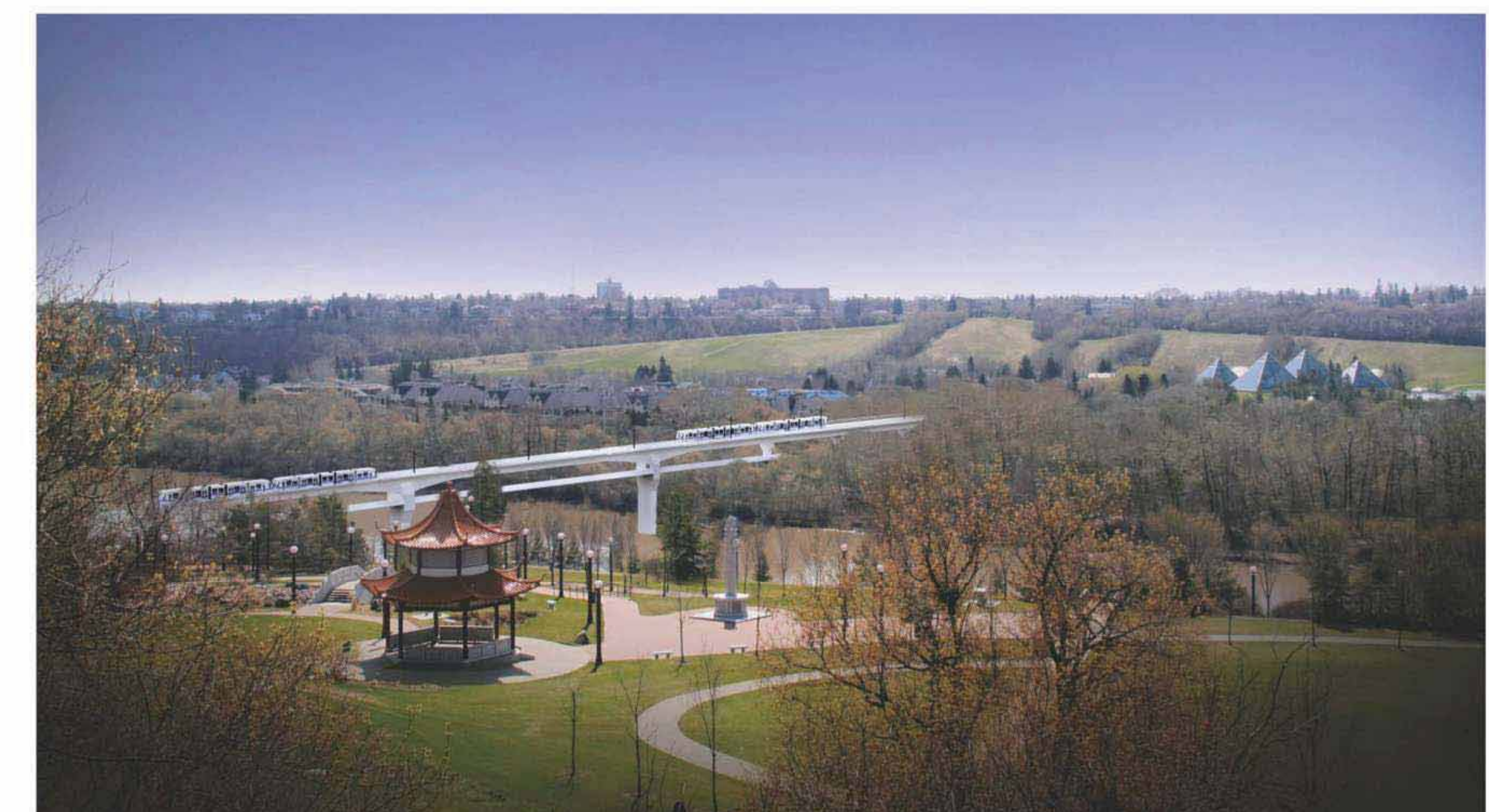
Option 2 - Extradosed bridge looking Northwest



Option 2 - Extradosed bridge looking Southeast



Option 3 - Variable box girder bridge looking Northwest



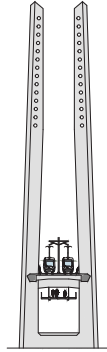
Option 3 - Variable box girder bridge looking Southeast

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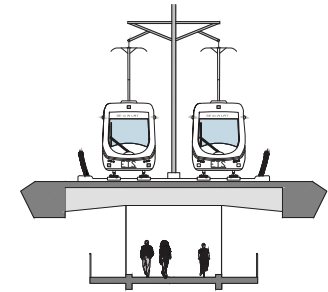


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Option 1 Cable Stayed Bridge

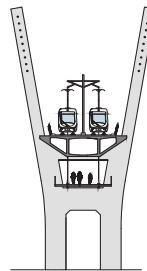


Option 1 - Cable stayed bridge cross-section at pier

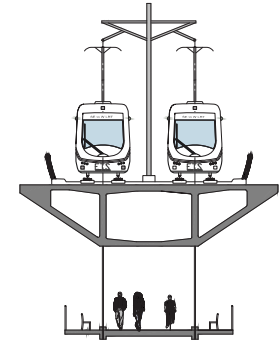


Option 1 - Cable stayed bridge cross-section at midspan

Option 2 Extradosed Bridge

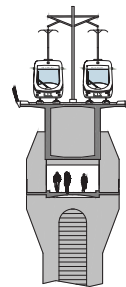


Option 2 - Extradosed bridge cross-section at pier

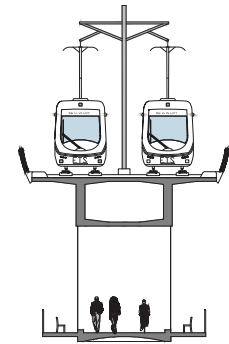


Option 2 - Extradosed bridge cross-section at midspan

Option 3 Variable Box Girder Bridge



Option 3 - Variable box girder bridge cross-section at pier



Option 3 - Variable box girder bridge cross-section at midspan

Portal - Riverbank



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- A portal design will complement the surrounding area and will consider existing trail connections.
- Traction Power Substation will be located near the portal - final location to be determined.



Artist rendering

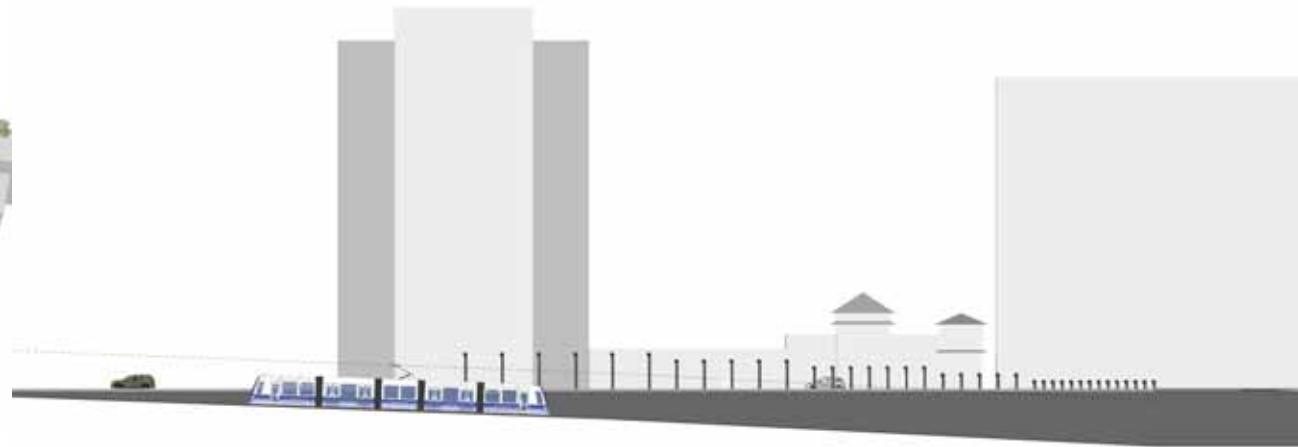
Portal - 102 Avenue



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Aerial view



Cross section looking North



Detail of portal



Portal plan

- Final design of portal to be coordinated with Quarters Redevelopment Project