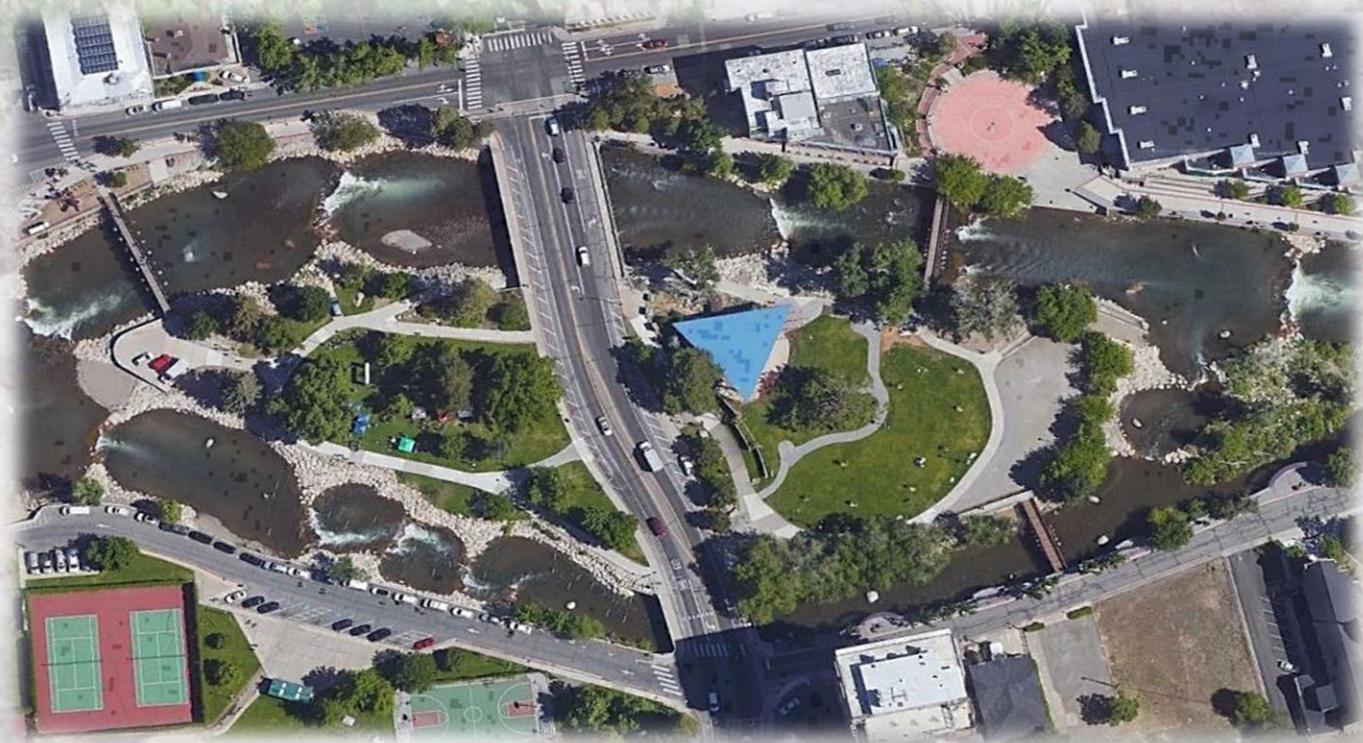


Design and Environmental Study For



ARLINGTON AVENUE BRIDGES REPLACEMENT

Aesthetics Working Group Meeting #4 | June 22, 2022

Agenda



- ✓ Aesthetic Design Goals
- ✓ Aesthetic Elements
- ✓ Selected Bridge Elements for Discussion
 - ✓ Overall Bridge Elevation Options - 3
 - ✓ Bridge Rail- 2
 - ✓ Metal Bridge Rail Motif-3
 - ✓ Overlooks/Center Pier
 - ✓ Lighting - Post top and Column-3
 - ✓ Railing Lighting
 - ✓ Under Bridge Lighting
 - ✓ End and Mid Pylons -5
 - ✓ Pier and Abutment Texture
 - ✓ Pilaster Insets
 - ✓ Sidewalk Treatment On and Between Bridges
- ✓ Vote on Items to Show at Public Meeting
- ✓ Public Meeting: August 11th, 2022

Aesthetic Design Goals:



Cohesive Design Language

1. Establish a project theme to unify all the bridge and landscape elements

Enhance Pedestrian Experience

1. Maintain vantage points of the river and surrounding landscape, avoid above street bridge types
2. Enhance pedestrian experience with shade trees, decorative lighting, decorative railing, paving, sculptural/artistic features and unified materials between sidewalk and street

Notes: Arlington Avenue acts as an urban plaza during special events; consider using unified materials for the sidewalks; new standards for sidewalks in Downtown

Contextual and Historical Relevance

1. Design structural elements to have relevance to the urban context
2. Provide design solutions that pay homage to Reno's history, while representing a new age of bridge development within the downtown core
3. Virginia Street bridge to be the landmark bridge and others focal bridges.

Innovation and Sustainability

1. Provide stormwater infiltration on street (Low Impact Development - LID) permeable pavement or pavers
2. Use LED lighting
3. Use drought resistant and native trees and plants

Aesthetic Elements to Be Included:

- Use Modern Design Elements: A Melding of Old and New
- Use Pedestrian-Scaled Lighting Where Possible
- Develop Bridge Accent Lighting
- Develop a Transparent, Traffic-Rated Bridge Railing
- Maintain Pedestrian Accessibility Throughout Arlington Avenue
- Widen Bridge Sidewalk and/or Provide Overlook
- Treat Abutment Walls and Flood Walls Uniquely
- Develop Seamless Transition from Sidewalks to Street-Paving



Overall Bridge Elevation Options



Overall Bridge Option 1 - Texas DOT Concrete Bridge Rail/Parapet

Overall Bridge Elevation Options



Overall Bridge Option 2 - Metal Vehicular Bridge Rail with Metal Pedestrian Fence-Layered Motif

Overall Bridge Elevation Options



Overall Bridge Option 3 - Concrete Vehicular Bridge Rail with Metal Overlook Fence, Layered Motif

Selected Bridge Elements – Concrete Bridge Rail



Option 1 - Texas DOT Concrete Bridge Rail/Parapet/Overlook

Selected Bridge Elements – Metal Bridge Rail Motif



Option 2A - Metal Vehicular Bridge Rail with Metal Pedestrian Fence at Overlook - Layered



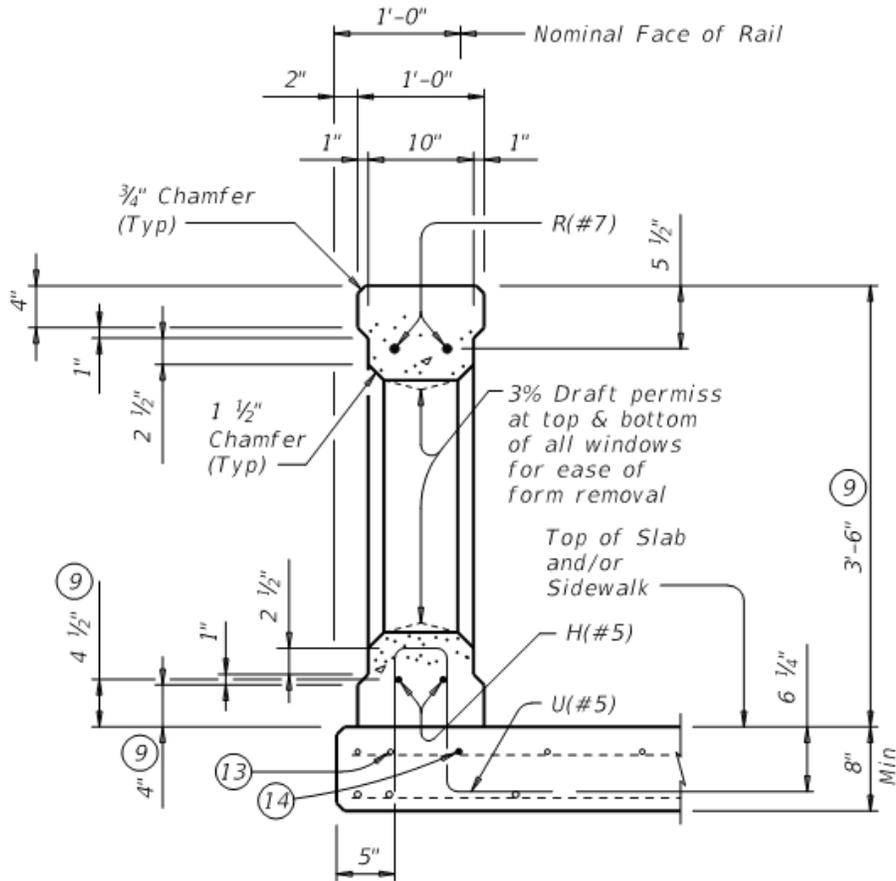
Option 2B - Metal Vehicular Bridge Rail with Metal Pedestrian Fence at Overlook - Chevron



Option 2C - Metal Vehicular Bridge Rail with Metal Pedestrian Fence at Overlook - Greek Key

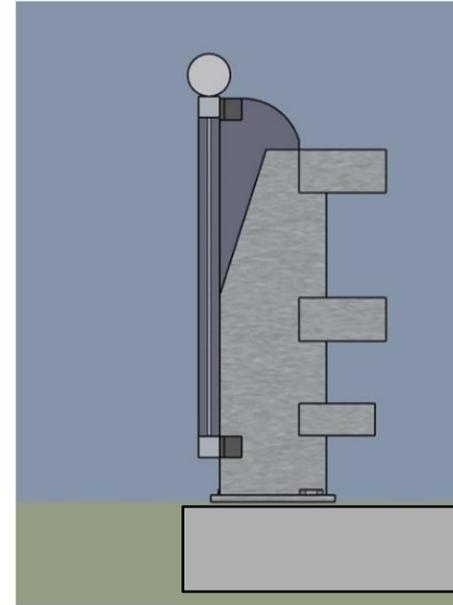


Selected Bridge Elements – Bridge Rail



SECTION THRU WINDOW ON BRIDGE SLAB

Cross Section - Concrete Rail



Cross Section - Metal Rail

Selected Bridge Elements – Overlooks



Option 1 - Overlook with Texas DOT
Concrete Bridge Rail Overlook



Option 2 - Overlook with Metal Vehicular Bridge
Rail/Pedestrian Fence Overlook (layered)

Selected Bridge Elements – Overlooks/Center Pier



Option 1 - Overlook with Texas DOT
Concrete Bridge
Rail/Parapet/Overlook, Brackets and
Center Pier Treatment

Option 2 - Overlook with Metal
Vehicular Bridge Rail/Pedestrian
Fence/Overlook, Concrete Brackets
and Center Pier Treatment (layered)

Selected Bridge Elements – Lighting



Option 1 - LED Post-Top Luminaire

Two potential lighting strategies:
Option 1: Post-top
Option 2: Custom Column



Option 2 - Custom Column with Bridge Rail Motif

Selected Bridge Elements – Lighting



Option 1 - LED Post-Top Luminaire



Multiple post-top luminaires available - final selection to be determined

Selected Bridge Elements – Lighting



Layered



Chevron



Greek Key

Option 2 - Custom Column with Bridge Rail Motif

Selected Bridge Elements – Railing Lighting

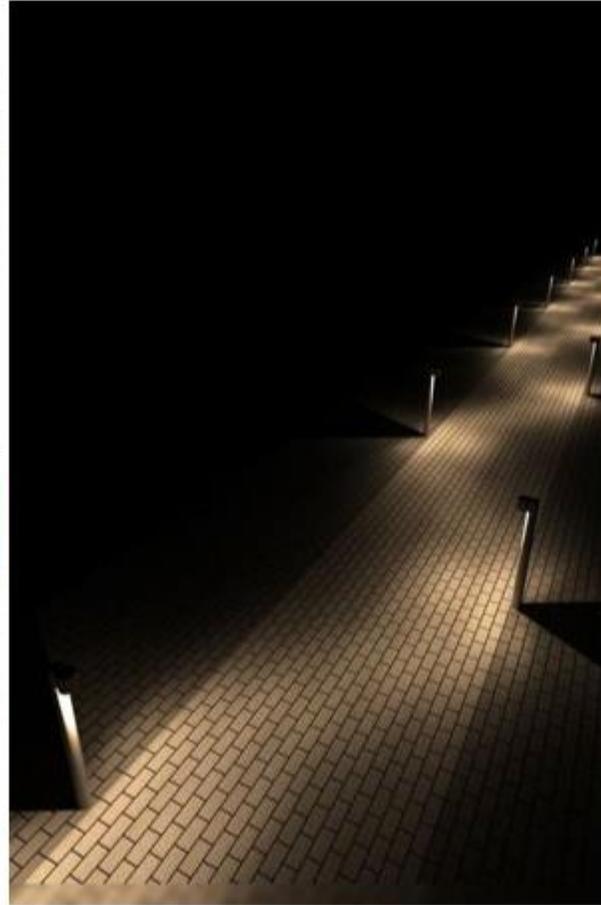


Bridge Rail Option 1 Concrete Vehicular Bridge Rail, with Under Top Rail Lighting



Bridge Rail Option 2 Metal Vehicular Bridge Rail/Metal Pedestrian Fence, Under Top Rail Lighting

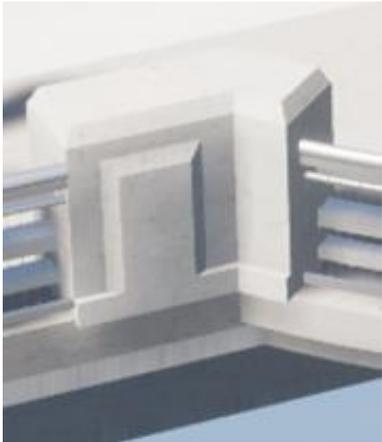
Accent Lighting – Under Bridge



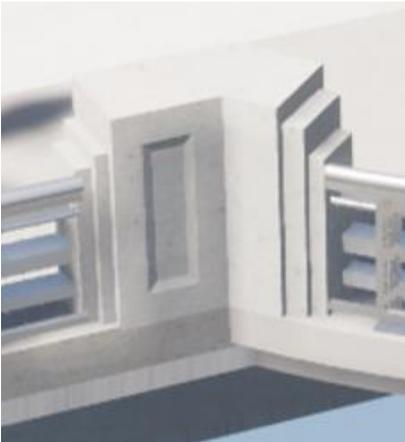
Selected Bridge Elements – End and Mid Pylons



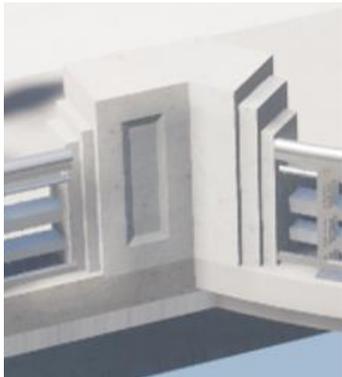
Pylon Group A



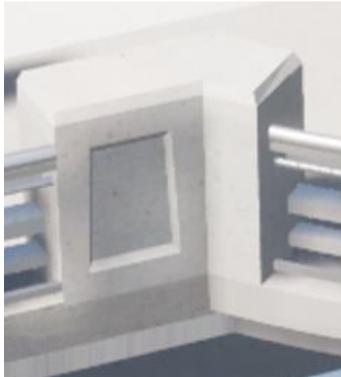
Pylon Group B



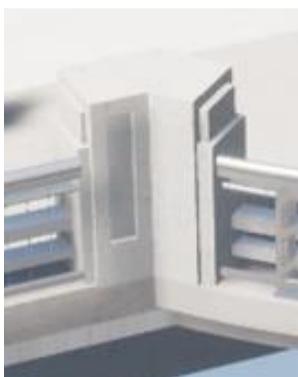
Pylon Group C



Pylon Group D



Pylon Group E



Pylon Groups - 5 Options

Selected Bridge Elements – End and Mid Pylons



Pylon Group A

Selected Bridge Elements – End and Mid Pylons



Pylon Group B

Selected Bridge Elements – End and Mid Pylons



Pylon Group C

Selected Bridge Elements – End and Mid Pylons



Pylon Group D

Selected Bridge Elements – End and Mid Pylons



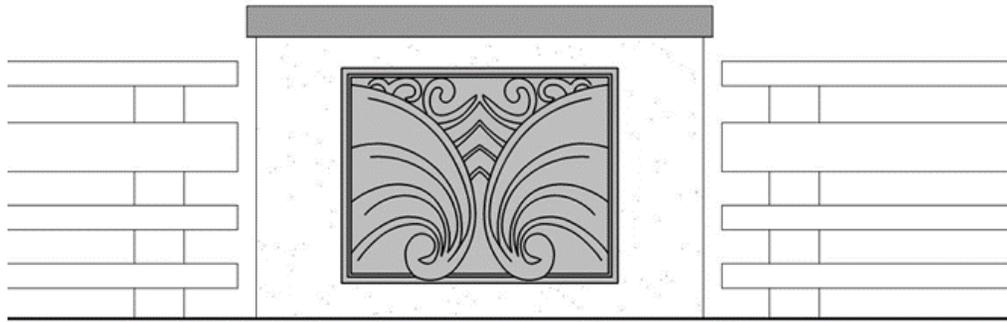
Pylon Group E

Selected Bridge Elements – Pier and Abutment Wall Texture

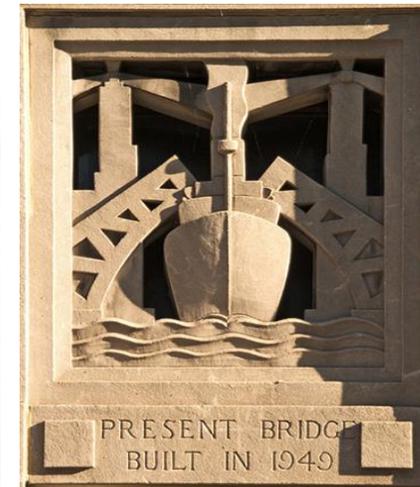
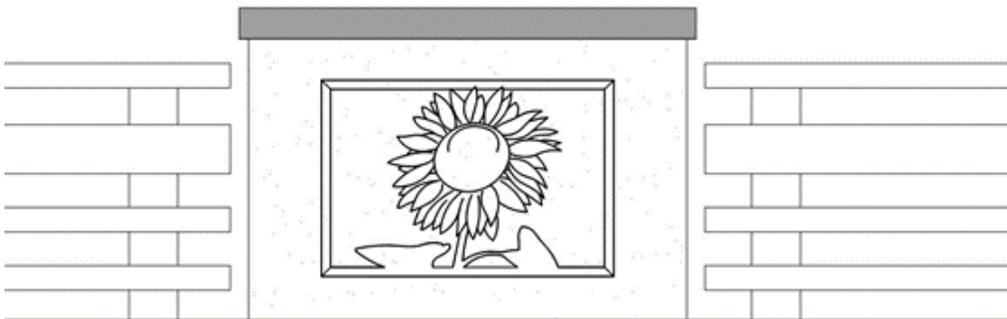


Pier and Abutment Wall Texture Coordinated with Railing Motif

Bridge Element: Pilaster Insets

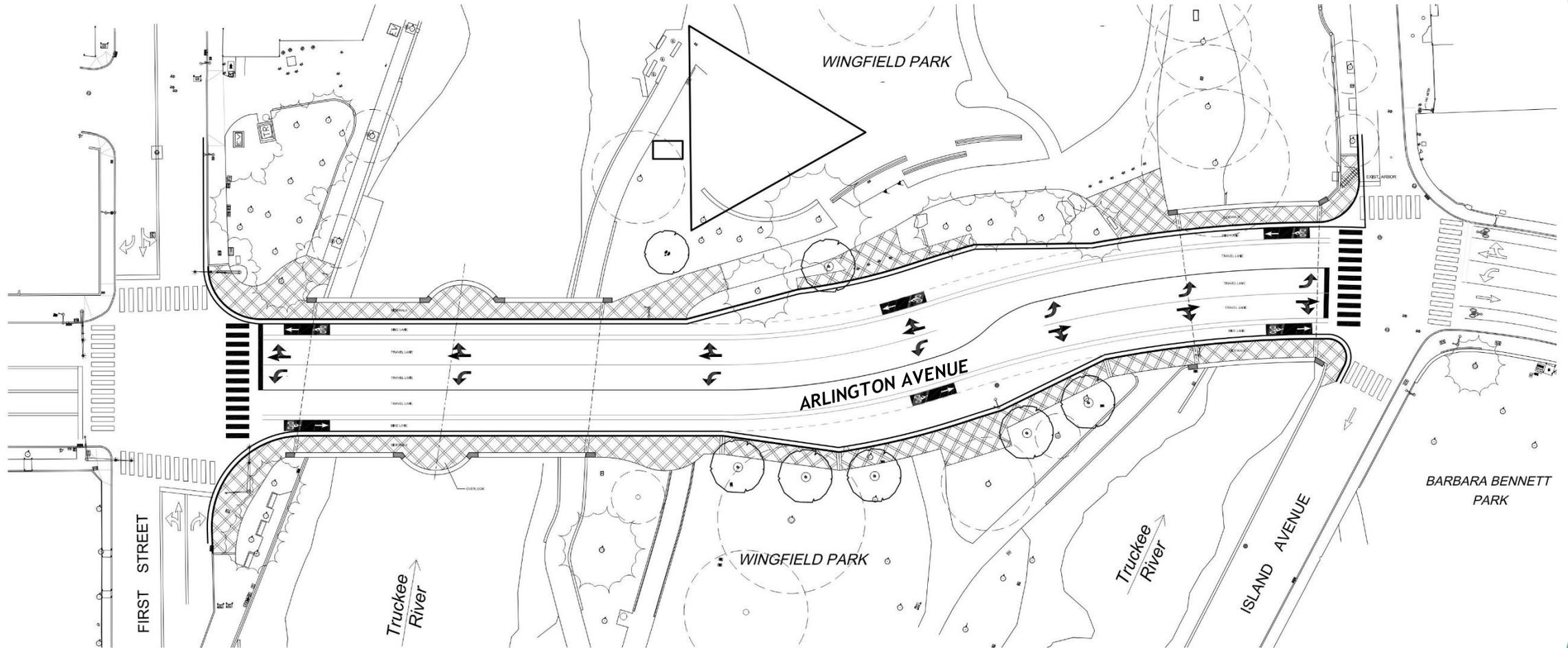


Polychrome or
Monochrome Terra Cotta



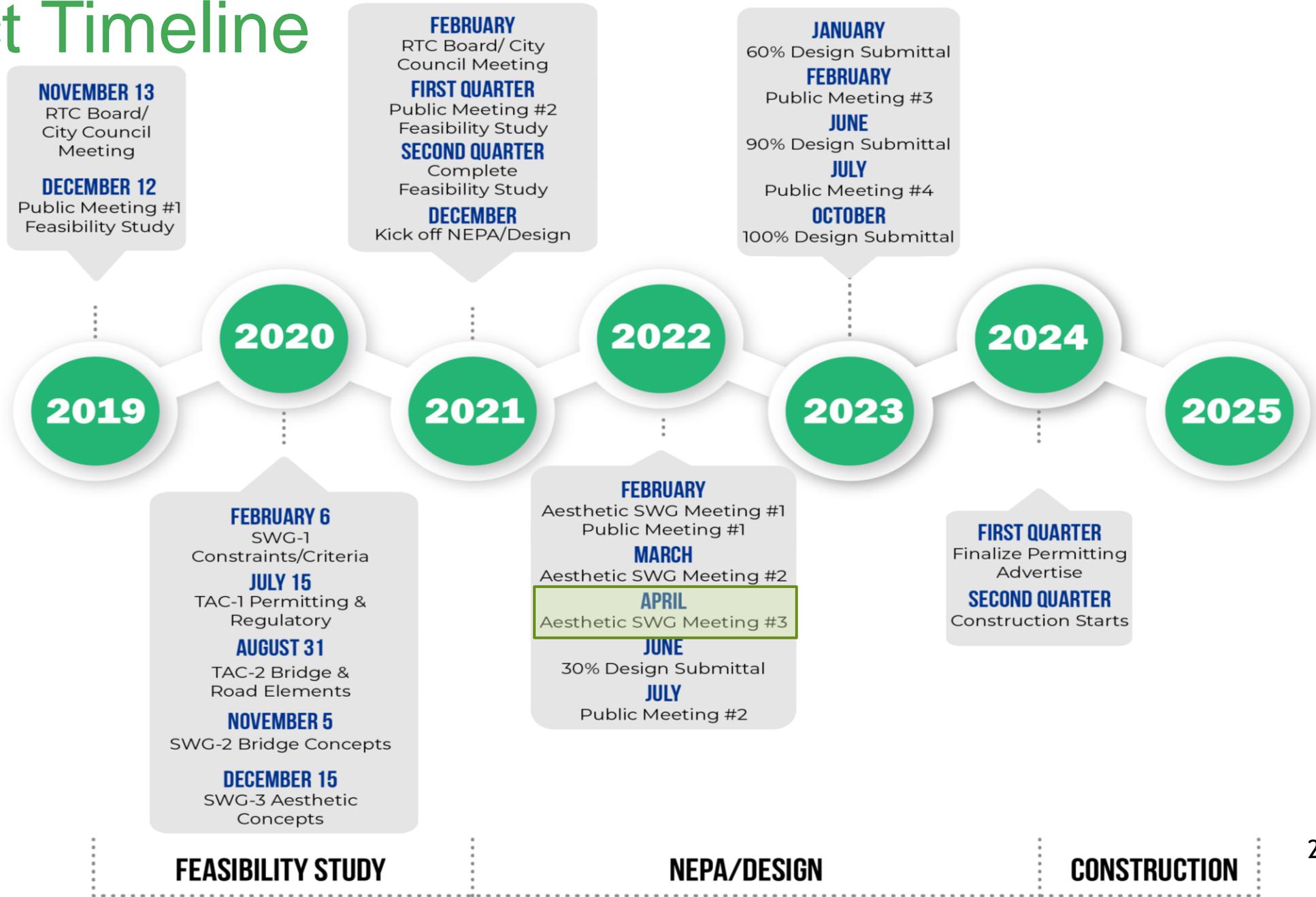
Tinted or Untinted
Precast Concrete Panel

Sidewalk Treatment On and Between Bridges



Gray Colored Concrete on Sidewalks
with Diagonal Joints/Sawcuts Accents

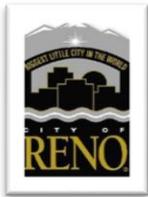
Project Timeline



Thank You for Participating!



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*Building A Better Community
Through Quality Transportation.*
rtcwashoe.com

