



# Winona Bridge Project City Council Update February 24, 2014

We all have a stake in **A  B**





# Introductions



Photo Courtesy of Mr. Al Mueller



Photo Courtesy of Mr. Juan Roque





# Outline

- Purpose of Meeting
- Project Status Update
- Community Based Risk Assessment - Proposal
- Cooperative Agreement Background
- Cost “Negotiations”
- Visual Quality Committee Efforts / Recommendations
- VQC Member Feedback
- City Staff VQC Feedback
- Maintenance of Traffic
- Questions?





# Purpose of Meeting

- Update City Leadership on the Winona Bridge Project.
- Seek consensus for a Community Based Risk Assessment effort.
- Check-in on the Visual Quality Efforts and Recommendations as we continue our VQC and Cooperative Agreement efforts.
- Outline any necessary course corrections.
- No formal council actions requested.
- Feedback encouraged.





# Project Status Update





# Project Status Update - Completed

- All Right of Way offers made.
  - Process Started after August 19, 2013 Municipal Consent.
  - All made Pre-FONSI.
  - Maximizes Time for Property Owners and City.
  - January 1, 2015 deadline for acquisitions / Eminent Domain.
- Developed CMGC Program and selected Ames Construction, Inc. as CMGC Contractor.



Ames Construction, Inc.™



# Project Status Update - Completed

- All Final Design Consultants Selected.





# Project Status Update - Completed

- Final Design Estimator and Independent Cost Estimator Selected.

**PARSONS  
BRINCKERHOFF**



- Finding of No Significant Impact (FONSI)
  - Issued January 30, 2014





# Project Status Update – In Progress

- Environmental Permitting Submittals.

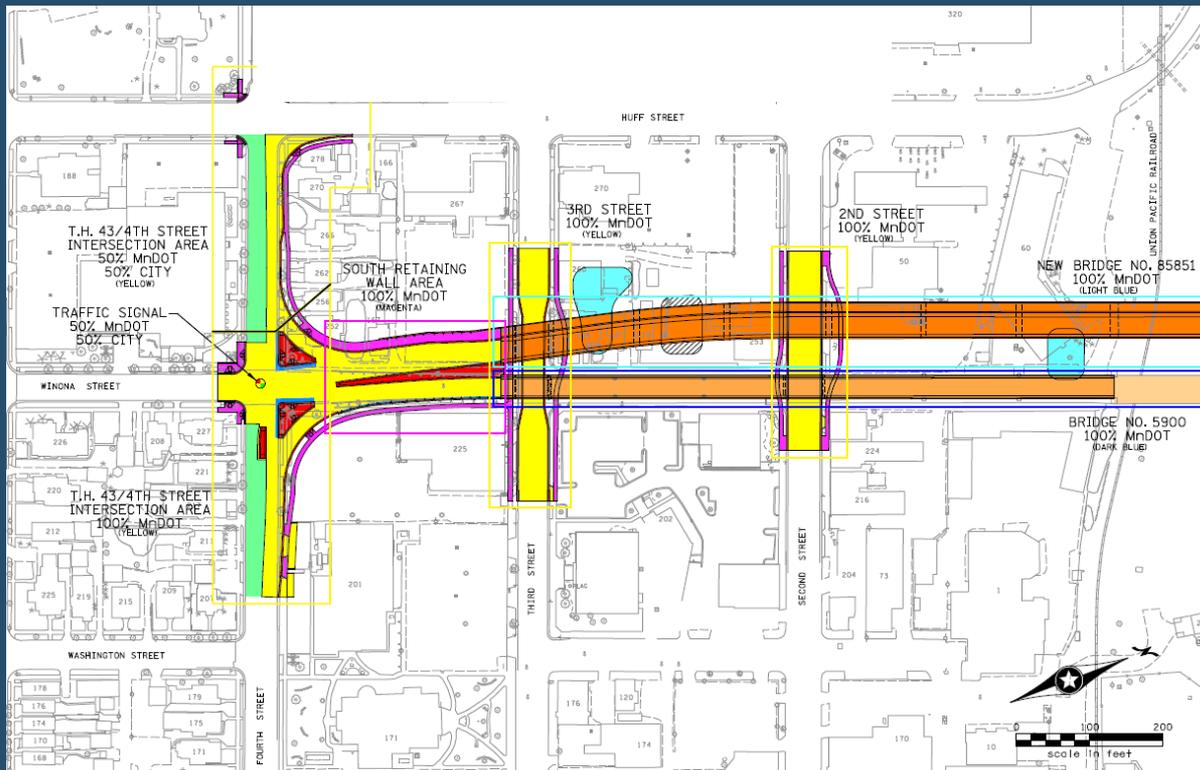


US Army Corps of Engineers



# Project Status Update – In Progress

- Final Design – Potential City Initiated Items?



Storm Water  
Ponds

South Half  
of 4<sup>th</sup>  
Street





## Project Status Update – In Progress

- Based on our Current Scope and Risk Profile:
  - Existing Bridge costs: \$56-\$63 million
  - New Bridge: \$52-\$59 million
  - Roadway Costs: \$7-\$9 million

Total Estimated Construction Cost: \$115-\$131 million.

Total Funding (not including ROW): \$142 million.

Difference is Project Development and Delivery Costs.





# Project Status Update – In Progress

- Project Funding Final Procedures.

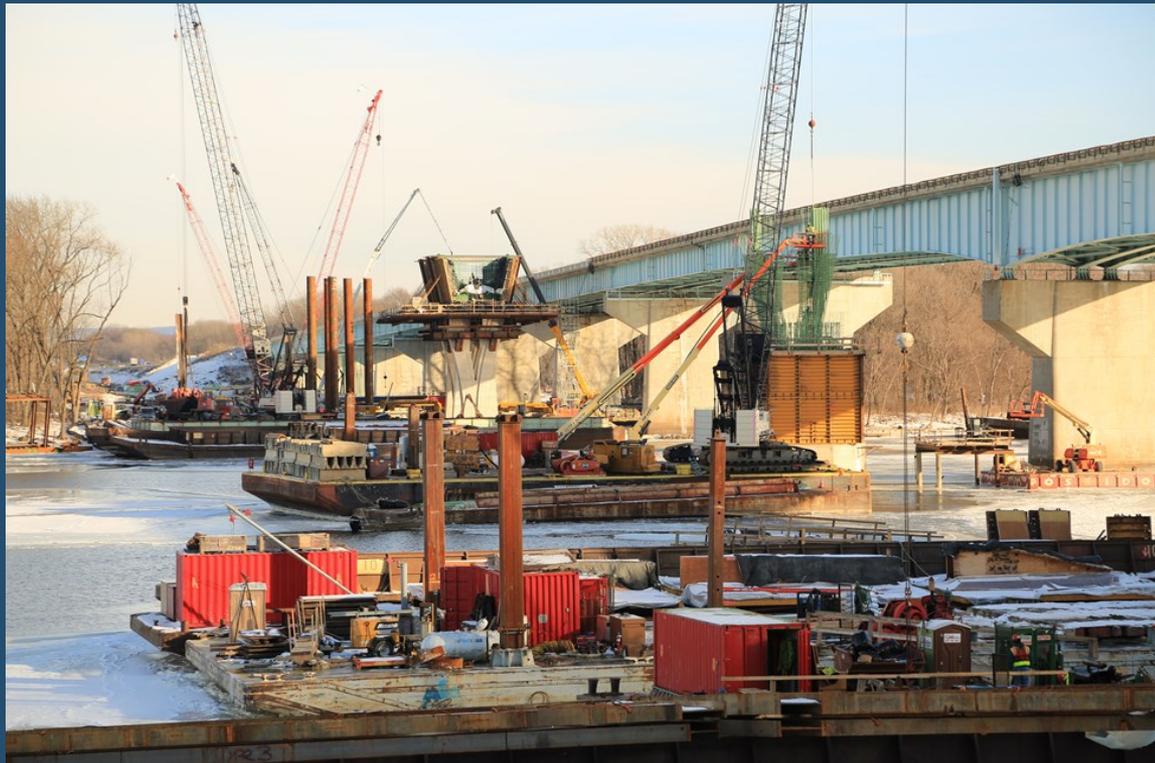


- Public Outreach – On-Going.
- Visual Quality Committee – Final Design Meetings.



# Project Status Update – In Progress

- CMGC Scheduling, Cost Estimating and Risk



# Project Status Update – In Progress

- Construction Oversight / Planning









# Project Update - Schedule

So far, on Schedule for a July 2014 Construction Start, if not sooner.

*Very Aggressive and not a Guarantee.*

Goal:

*Beat Spring 2015 Flooding for new Bridge river foundations, if at all possible.*





# Community Based Risk Assessment





# Community Based Risk Assessment MnDOT Project Goals from Aug. 5, 2013

- Start Construction on the New Mississippi River Bridge as Expeditiously as Possible.
- Move Traffic to the New Bridge as Expeditiously as Possible to Minimize the Likelihood of Detours Related to Bridge Maintenance Work on the Existing Structure.
- Keep the River Crossing Open During Construction.





# Community Based Risk Assessment MnDOT Project Goals from Aug. 5, 2013

- Meet the Chapter 152 Funding Cap of \$142 Million (not including ROW).
- ROW Estimated at \$12-\$20 million additional.
- Overall Total Estimated Cost: \$154 to \$162 million

*No Funding has been diverted from the project. Project Funding is different from Preliminary Cost Estimates.*





# Community Based Risk Assessment

- Explore and Capture Community Goals and Risks.
- May Differ from MnDOT Goals.
- First effort of this kind for MnDOT.
- Need active City participation to be successful.
- Not a Required Effort.
- Goal Setting Meeting and Risk meeting(s).
- Flow Chart Prepared.
- Draft Invitee Listing Developed.



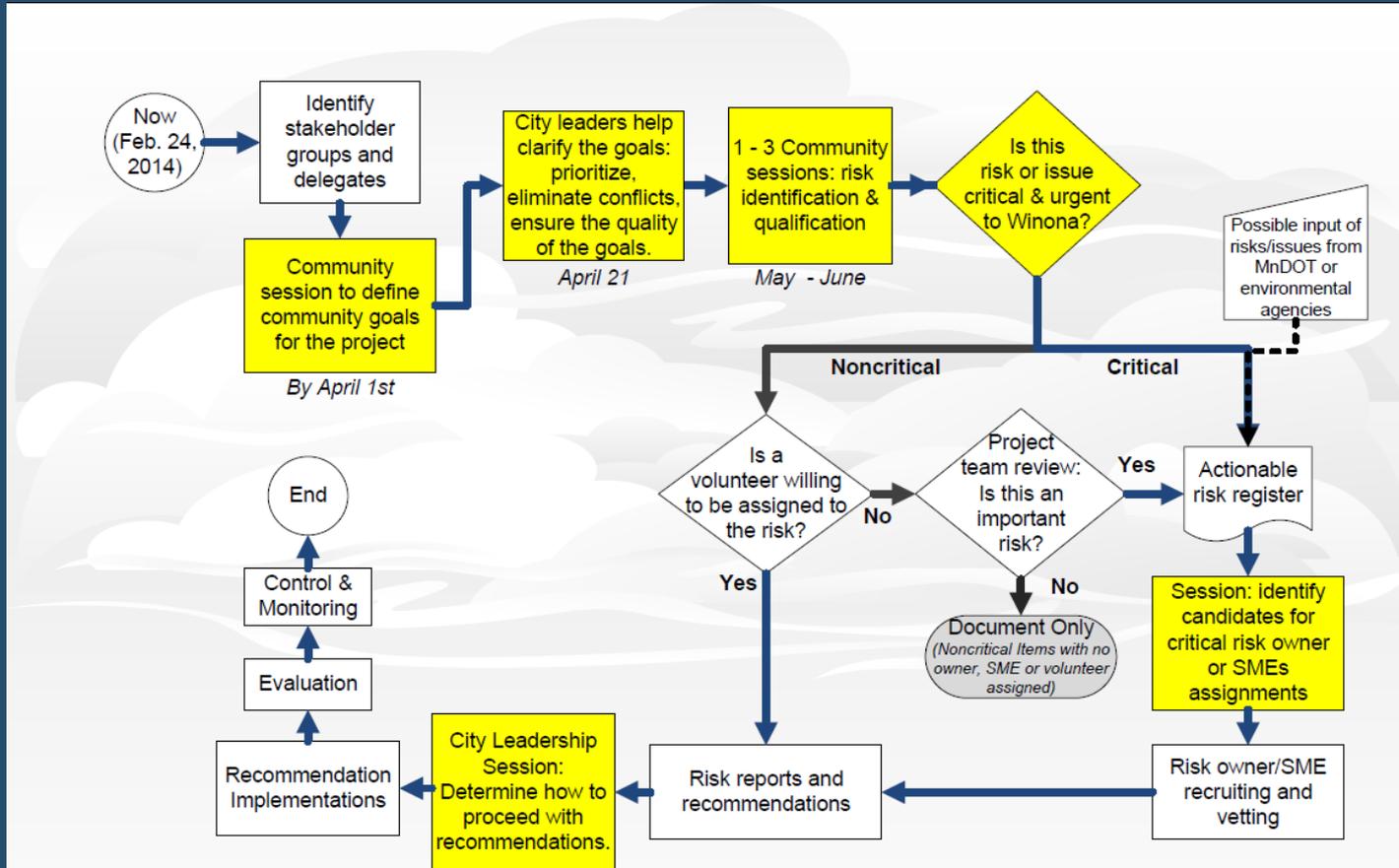


# Community Based Risk Assessment

- AVS Group from La Crosse Assisting.
  - Worked with Winona Chamber to Select.



# Community Based Risk Assessment



# Community Based Risk Assessment

- Examples:

- Construction Noise
- City Infrastructure Conditions
- Fastenal Daily Truck Movements
- YMCA Parking During and After Construction
- ???



- Discussions
  - Implement or not?





# Cooperative Agreement Background





# Cooperative Agreement Background



## Mn/DOT POLICY GUIDELINE

**Date:** August 7, 1985

**Revised:** June, 2001

**Revised:** April, 2004

**Reference:** Highways (including  
Bikeways) 6.1.G-1  
Policy and Procedures for  
Cooperative Construction Projects  
with Local Units of Government





# Cooperative Agreement Background

- Decisions Made with City Staff Since Project Management Team Changed:
  - House Acquisitions.
  - Temporary Signal vs. Permanent Signal at 4<sup>th</sup> / Huff. (75% MnDOT Cost Participation).
  - Extension of 4<sup>th</sup> Street westbound Right Turn Lane.
  - Confirmation of 4<sup>th</sup> Street Traffic Operations.





# Cooperative Agreement Background

- From June 30, 2013 Municipal Consent Request Letter:
  - Estimated City Cost: \$713,000





# Cooperative Agreement Background

## Estimated City Cost from Aug. 5th, 2013 - Update

- New Signal System at 4<sup>th</sup> / Winona – 50/50 split.
- Right Turn Lane from 4<sup>th</sup> to Huff – 50/50 split.
- Trail and Park Amenities under bridges – 100% City (\$200,000 in Preliminary Estimate).
- City Utility Upgrades (none requested to date) – 100% City.





# Cooperative Agreement Background

## Estimated City Cost from Aug. 5, 2013 - Update

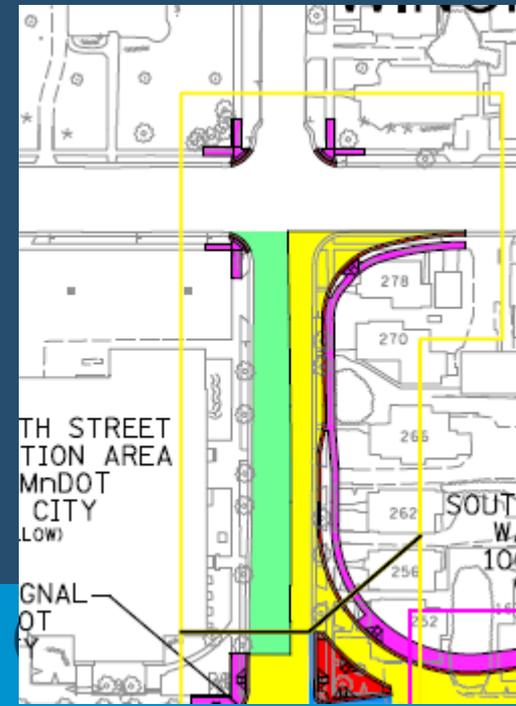
- Trail Maintenance on New Bridge.
- Minor Signal Maintenance.
- Storm Sewer Maintenance.
- Pro-rated Value of Mobilization, Traffic Control and Construction Field Offices.
- Construction Engineering – 8% of City Cost share.





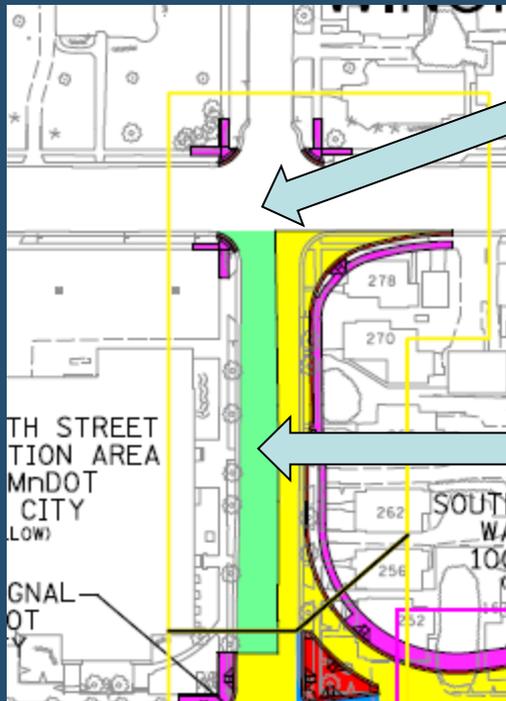
# Cooperative Agreement Background City Cost from Aug. 5, 2013 - Update

- Right Turn Lane from 4<sup>th</sup> to Huff – 50/50 split.
- Now 100% MnDOT cost likely.





# Cooperative Agreement Background



MnDOT Contribute 75% of Permanent Signal Costs, in lieu of Temporary Signal.

City to Determine whether or not to reconstruct south half of 4<sup>th</sup> (100% city cost).

Current Recommendation: 2" mill and overlay by MnDOT.





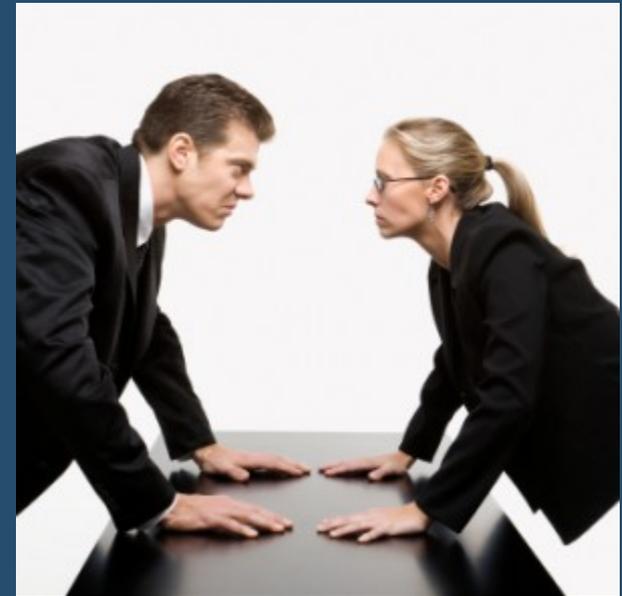
# Cost “Negotiations”

## Cost and Maintenance Responsibilities



# Cost Negotiations

- If acceptable to Council, Judy and I will come back to Council with a Cooperative Agreement detailing cost and maintenance responsibilities both agree with.
- We will work with City Staff and MnDOT Leaders to accomplish this.
- We could brief council whenever desired to make sure the project features meet expectations.





# Visual Quality Committee Update and Recommendations

Final Decisions based on Historical Reviews, City of Winona Staff / Council and MnDOT

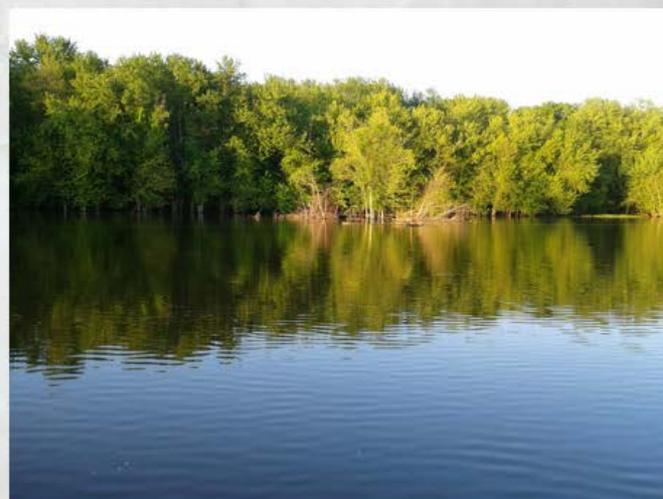




# Visual Quality Committee Recommendations



Create a New Winona Bridge that is in Harmony with the Built and Natural Environment



# Visual Quality Committee Recommendations



## COMMITTEE GOALS AND ROLES

### Local Representatives

- Actively participate
- Provide constructive comments
- Reach out to neighbors, business associates, constituencies
- Serve an advisory role

### MnDOT/Consultant Staff

- Provide background
- Present illustrative options
- Outline technical parameters
- Take the project to the next phase



### Overall

- Strive for consensus yet acknowledge differences of opinion
- Develop the visual character of the bridge, supporting elements, and riverfront connection
- Create a project that the community will embrace



# Visual Quality Committee Recommendations



## VISUAL QUALITY REVIEW COMMITTEE

### Local Representatives

- David Bittner, Chamber of Commerce
- Coleen Bremer
- Tom Choinski
- Vicki English, Chamber of Commerce
- Lynn Englund, Heritage Preservation Committee
- Pamela Eyeden, Winona City Council
- Peter Flick
- Jason Gilman, Winona County Planning
- Joanne Gove
- Jordan Hoel, Chamber of Commerce
- Mike Kennedy, Levee Park Committee
- Leone Mauszycki
- Liz Reach, Winona State student
- Dominic Ricciotti
- Peggy Sannerud, Winona State faculty
- Tom Stoa, Winona Bicycle Advisory Committee
- Jack Stoltman
- Chad Ubl, City of Winona



# Visual Quality Committee Recommendations

## Project Vision Statement Developed in Preliminary Design Phase



The **Winona Bridge Project** should **reflect** the current era while **respecting** the past.

The existing bridge is a **visual icon** for the **city**.

The new bridge should **defer to its prominent** visual presence.

The new bridge should **celebrate** the rivers's **natural beauty** and the **cultural history of Winona** that is intertwined with the river.

Together, the **two bridges** should **symbolize** a welcoming **gateway to beauty, culture, and prosperity**.

# Visual Quality Committee Recommendations



## COMMITTEE FOCUS TOPICS

### VQRC Input Provided

- Bridge Piers
- Overlooks
- Bridge Abutments and Retaining Walls
- Railings and Barriers
- Pedestrian and Bicycle Circulation
- River Connections
- Lighting
- Landscaping
- Signage





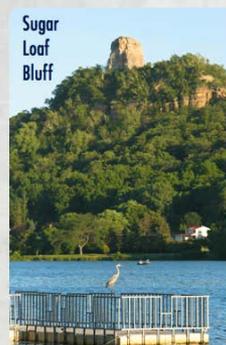
# Visual Quality Committee Recommendations

- 8 Meetings since August 2013 – All materials online.
  - Historic and Organic Themes

## Winona, Minnesota

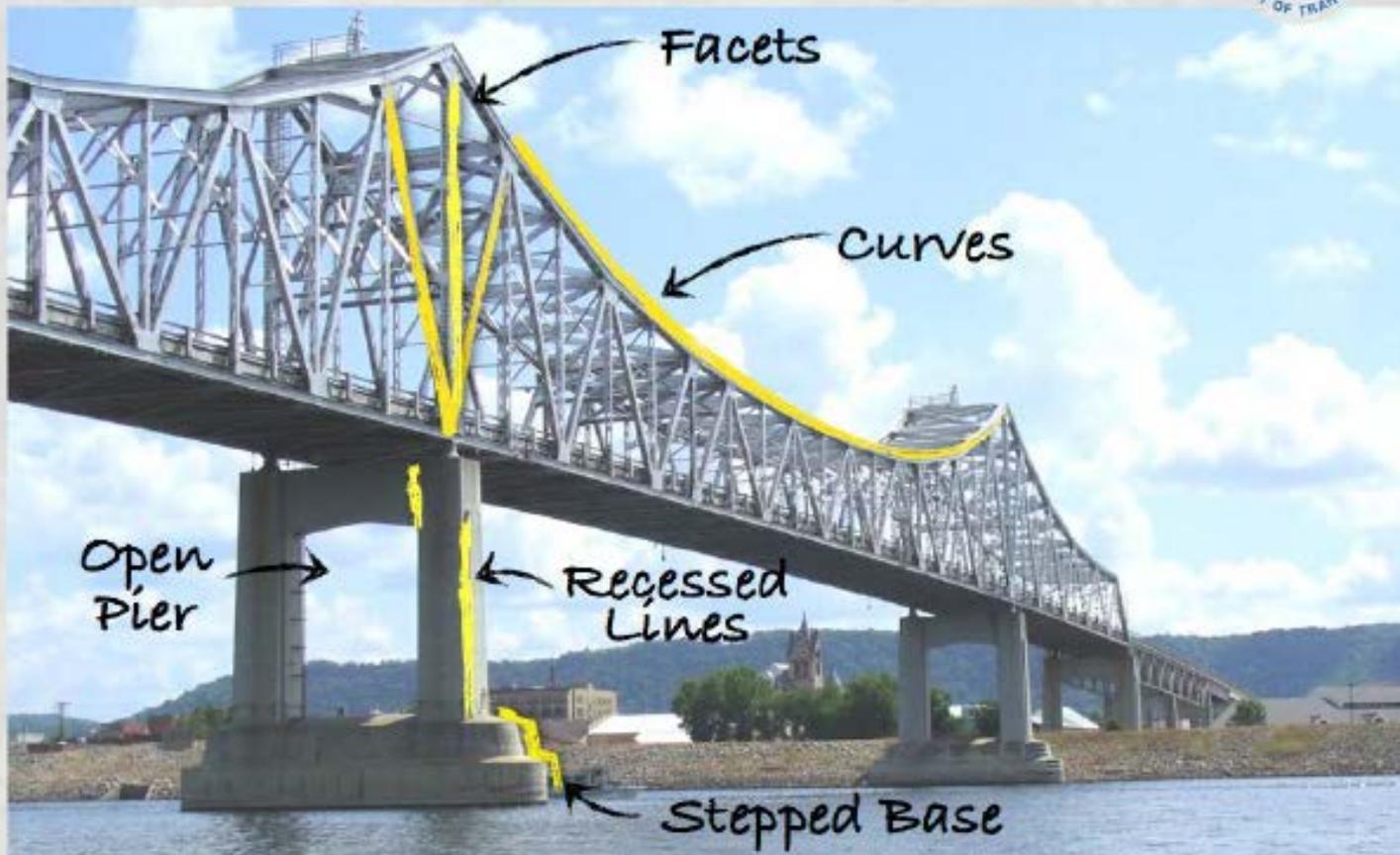


## Winona, Minnesota



# Visual Quality Committee Recommendations

## Modern Tribute Inspiration





# Visual Quality Committee Recommendations

## Organic Nature Inspiration Latsch Island Trees



Sweeping Curves  
Layers of Trunks and Branches, Arching Forms

# Visual Quality Committee Recommendations

## PROJECT RENDERINGS

Daytime View



View of Bridges Looking Upstream  
(Existing Bridge in Foreground)

# Visual Quality Committee Recommendations



View from Latch Island looking up-stream

# Visual Quality Committee Recommendations



View from Winona Levee looking down-stream

# Visual Quality Committee Recommendations

## PROJECT RENDERINGS

Daytime View



View from Existing Bridge - Northbound Towards Latsch Island

# Visual Quality Committee Recommendations

## PROJECT RENDERINGS

Daytime View



View from New Bridge - Southbound Towards Winona

# Visual Quality Committee Recommendations

## Bridge Pier Concepts Discussion

### Previous Concepts



Concept A - "Historical"



Concept B - "Organic"

### Refined Concepts



Concept C - "Modern Tribute"



Concept D - "Organic Nature"



# Visual Quality Committee Recommendations

## Pier Concept D— “Organic Nature”



# Visual Quality Committee Recommendations

## Pier Concept D— “Organic Nature”



### Main River Piers



# Visual Quality Committee Recommendations Overlooks

## Pier Concept D— “Organic Nature”



## Pier Concept D— “Organic Nature”

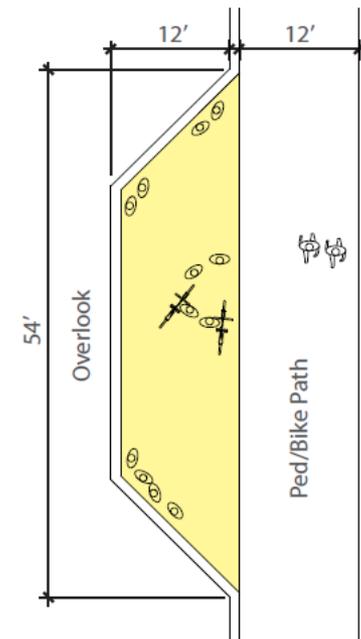
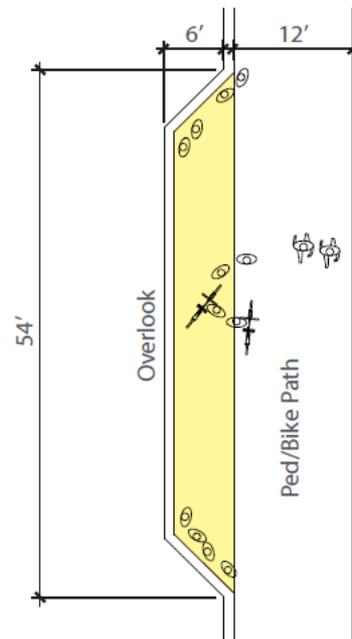
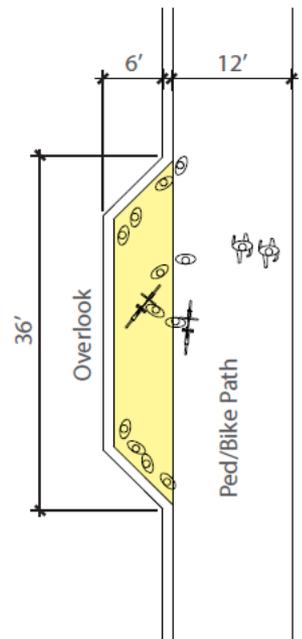
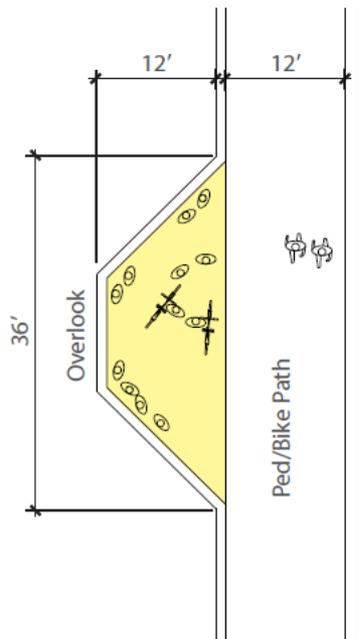


### Main River Piers



# Visual Quality Committee Recommendations

## OVERLOOK UPDATE



Note: All options illustrated with 12 people shown

### Concept 1

Area - 280 Sq Ft  
 Approximate Capacity - 18 People  
**Recommended**

### Concept 2

Area - 175 Sq Ft  
 Approximate Capacity - 11 People

### Concept 3

Area - 280 Sq Ft  
 Approximate Capacity - 18 People

### Concept 4

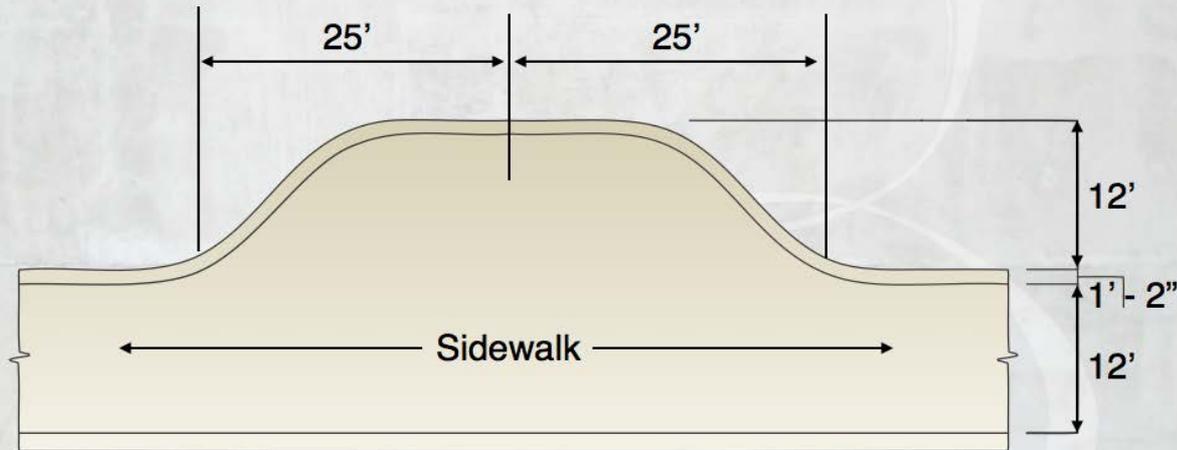
Area - 500 Sq Ft  
 Approximate Capacity - 31 People

# Visual Quality Committee Recommendations

## Overlooks



Overlooks to be provided at the main river piers  
Preferred size 50' long x 12' wide (450 sf)



Overlook to be refined with pier shapes





# Visual Quality Committee Recommendations

## Pier Concept D— “Organic Nature”



### Beam Piers





# Visual Quality Committee Recommendations

## Pier Concept D— “Organic Nature”



Flat Slab Piers



Crossing 3rd Street



# Visual Quality Committee Recommendations

## Bridge Color



- Grays, Tans and Buff colors explored
- Consider relation to rehabilitated existing bridge color
- Potential for separate color for railings
- Color selections to be further explored



# Visual Quality Committee Recommendations

## COLOR

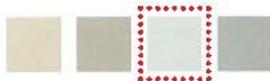
## Color Concept A



Main Piers - Summer



Main Piers - Winter



# Visual Quality Committee Recommendations

## COLOR

### Color Concept B



Main Piers - Summer



Main Piers - Winter





# Visual Quality Committee Recommendations

## Railings and Barriers



### Pedestrian Railing Options to Be Developed

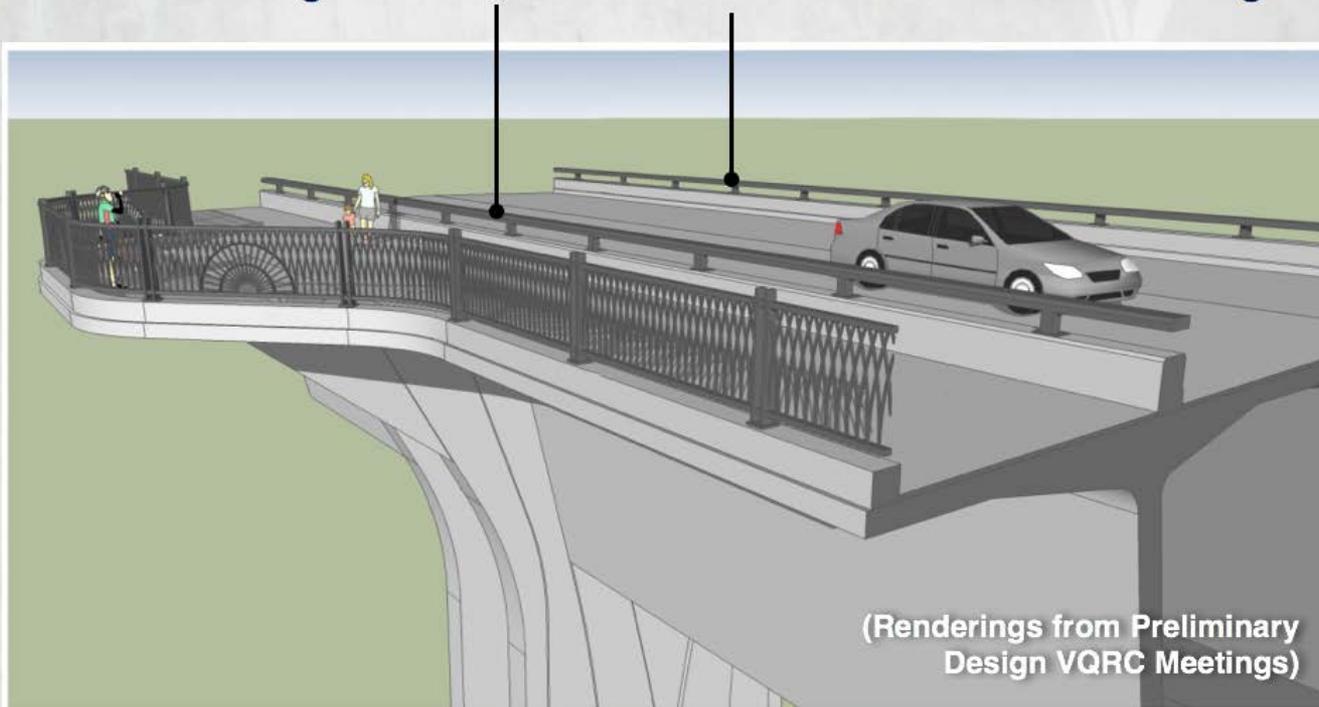
- Visibility through railing
- Tie to pier shapes
- Accent panels at overlooks, possibly with clear panels
- Could use simple typical railing with accent panels at overlooks

# Visual Quality Committee Recommendations

## Railings and Barriers



Traffic Barriers -  
Two-foot high concrete with one-foot tall metal tube railing

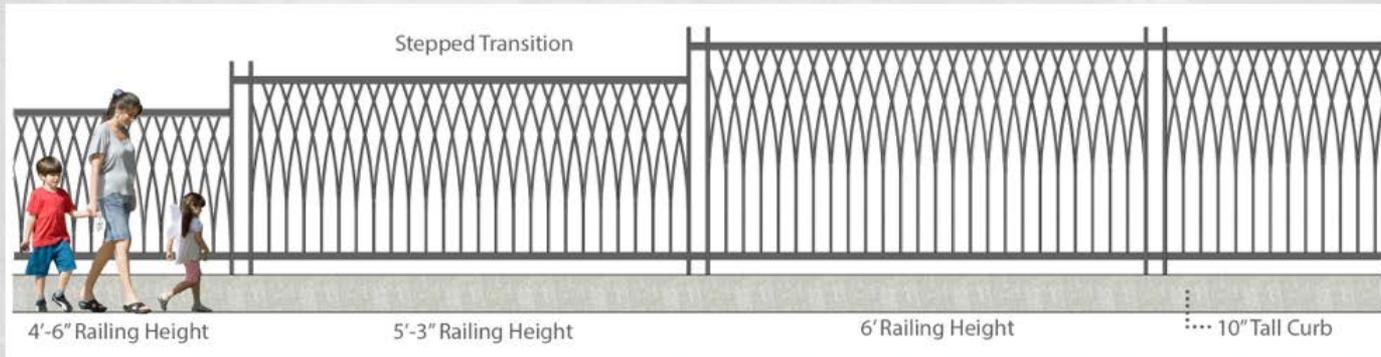


# Visual Quality Committee Recommendations

## Railings and Barriers



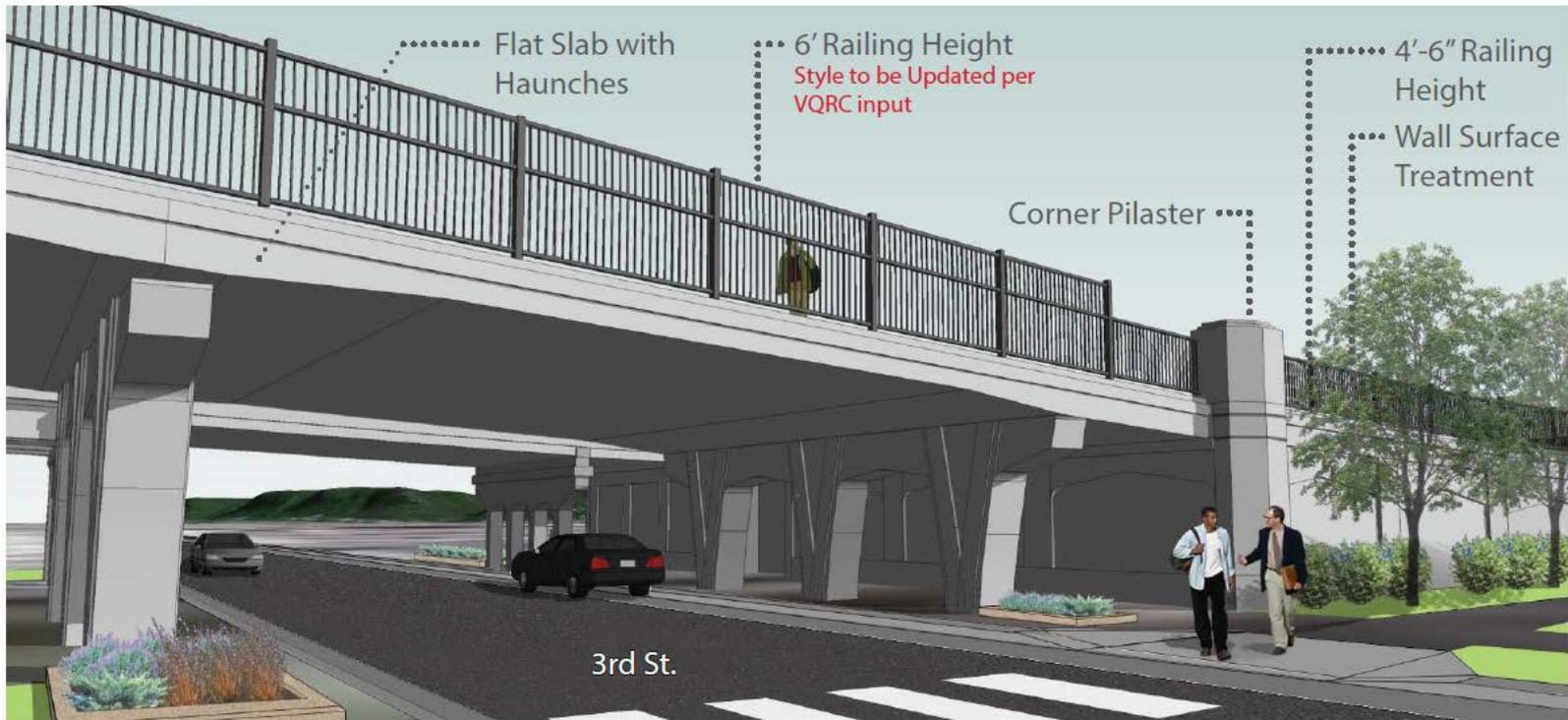
Pedestrian Railing (4'-6", 6' and 8' high)  
"Arching Branches" and "Paddle Wheel"



# Visual Quality Committee Recommendations

## ABUTMENTS AND WALLS

South Abutment



Concept B Approach Piers 1 and 2 Shown

# Visual Quality Committee Recommendations

## ABUTMENTS AND WALLS

North Abutment



# Visual Quality Committee Recommendations

## ABUTMENTS AND WALLS

### South Abutment Concept



# Visual Quality Committee Recommendations

## LIGHTING

### Roadway and Trail Lighting

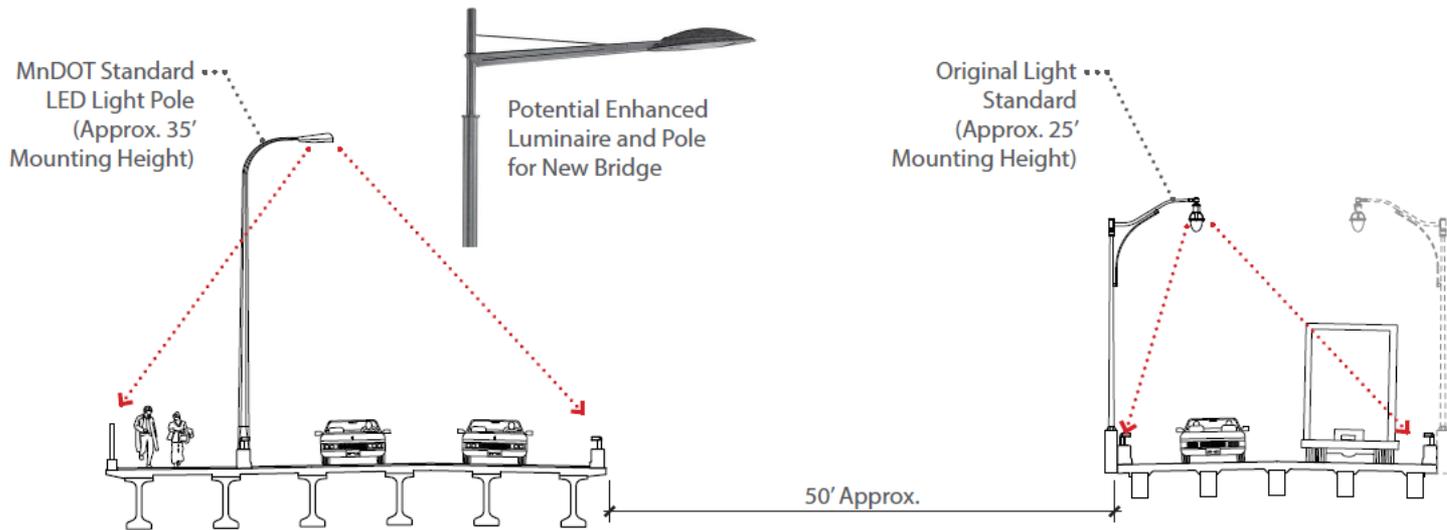


“Enhanced” Design Options

# Visual Quality Committee Recommendations

## LIGHTING

### Roadway and Trail Lighting - Approach Areas



New Bridge

- Single-side Layout on Barrier between Trail and Roadway
  - Lights both Trail and Roadway

Existing Bridge

- Staggered Layout Both Sides of Bridge

(Note: Lighting design dependent on final historic barrier design)

“Base” Design Cross Section Views (Looking North)

# Visual Quality Committee Recommendations

## LIGHTING

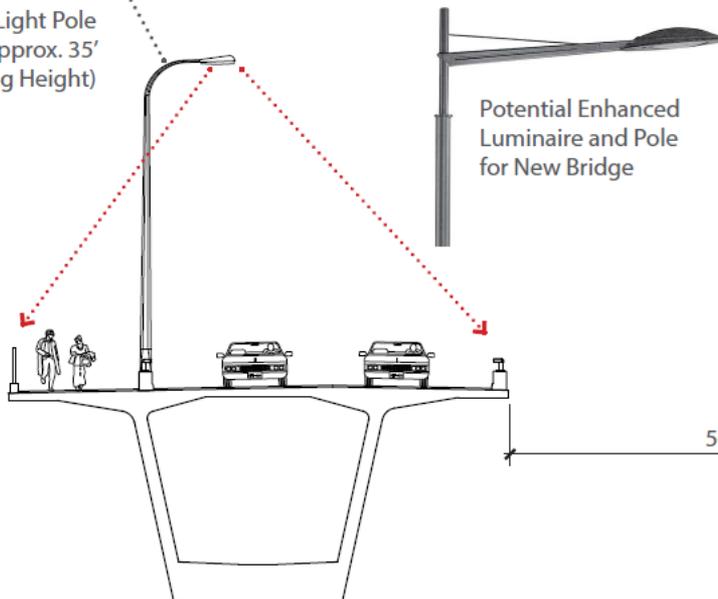
### Roadway and Trail Lighting - Main Span



#### New Bridge

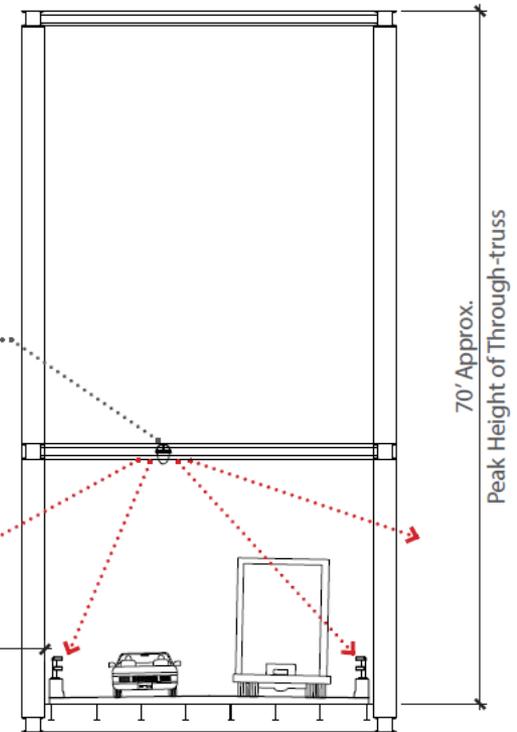
- Single-side Layout on Barrier between Trail and Roadway
- Lights both Trail and Roadway

MnDOT Standard  
LED Light Pole  
(Approx. 35'  
Mounting Height)



Replica Original  
Light Fixture  
(Mounted to  
Truss Bracing)

50' Approx.



Existing Bridge

“Base” Design Cross Section Views (Looking North)

# Visual Quality Committee Recommendations

## PROJECT RENDERINGS

Daytime View

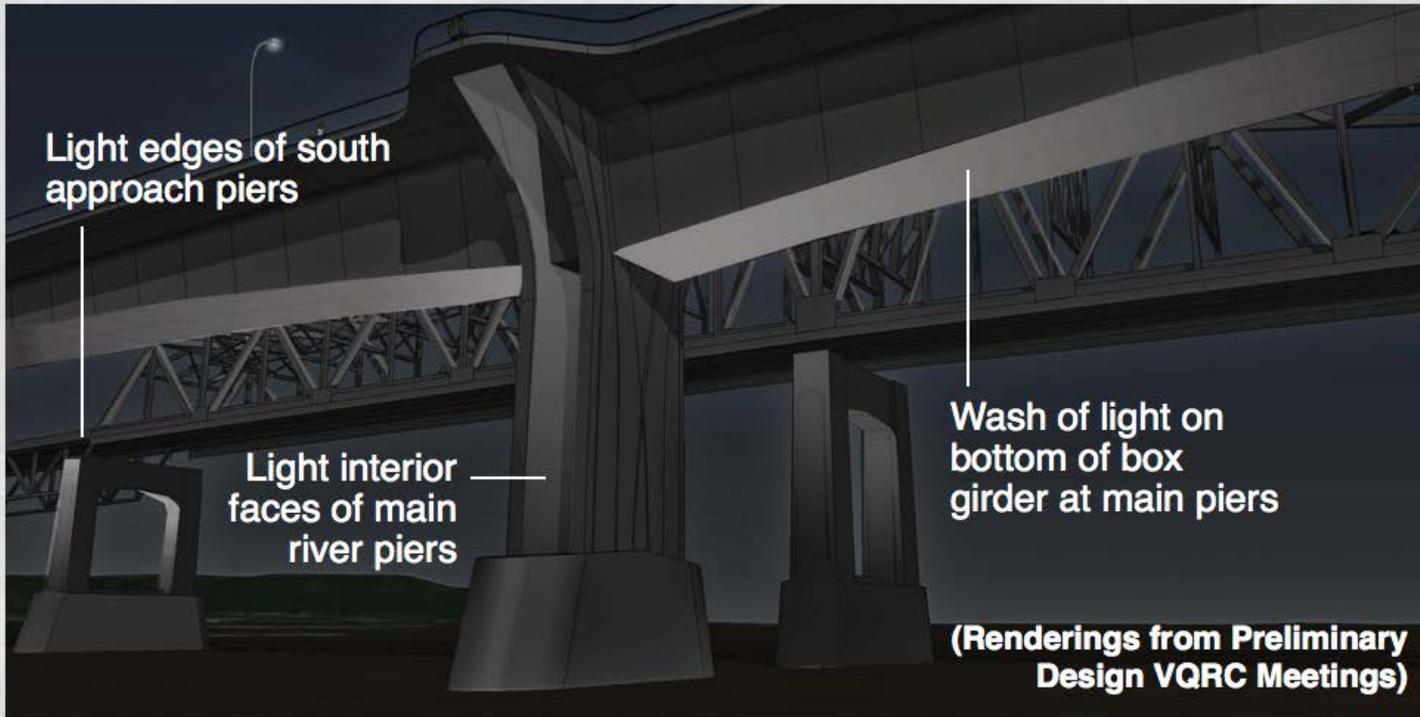


View from New Bridge - Southbound Towards Winona



# Visual Quality Committee Recommendations

## Lighting - Aesthetic



Concepts to be finalized in Final Design  
Implementation to be agreed/coordinated between MnDOT and City



# Visual Quality Committee Recommendations

## Lighting - Aesthetic

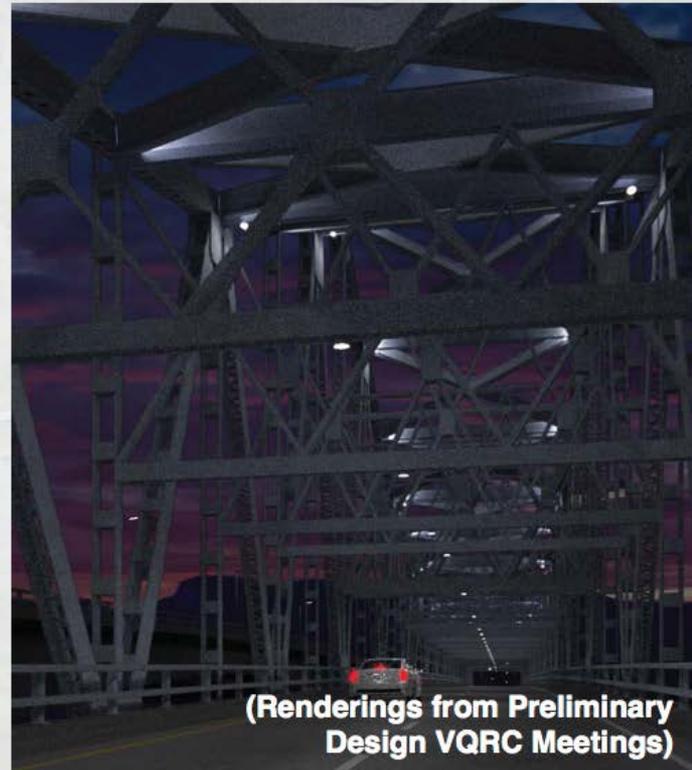


### Existing Bridge

LED dimable  
white lights

Light truss interior  
by washing interior  
side of truss members  
with light

Wash of light on  
main pier and south  
approach pier faces



(Renderings from Preliminary  
Design VQRC Meetings)

# Visual Quality Committee Recommendations

## LIGHTING

## Night Views



View of Bridges Looking Upstream  
(Existing Bridge in Foreground)

# Visual Quality Committee Recommendations

## LIGHTING

### Night Views



View from New Bridge - Southbound Towards Winona

# Visual Quality Committee Recommendations

## RIVER CONNECTION/LANDSCAPING

S. Approach





# Visual Quality Committee Recommendations

## Pier Concept D— “Organic Nature”



### Beam Piers



# Visual Quality Committee Recommendations

## RIVER CONNECTION

Ground Level Concept A2

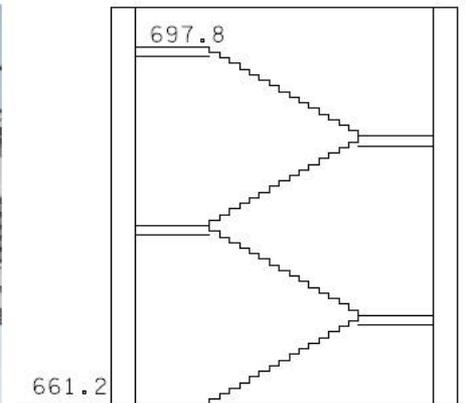
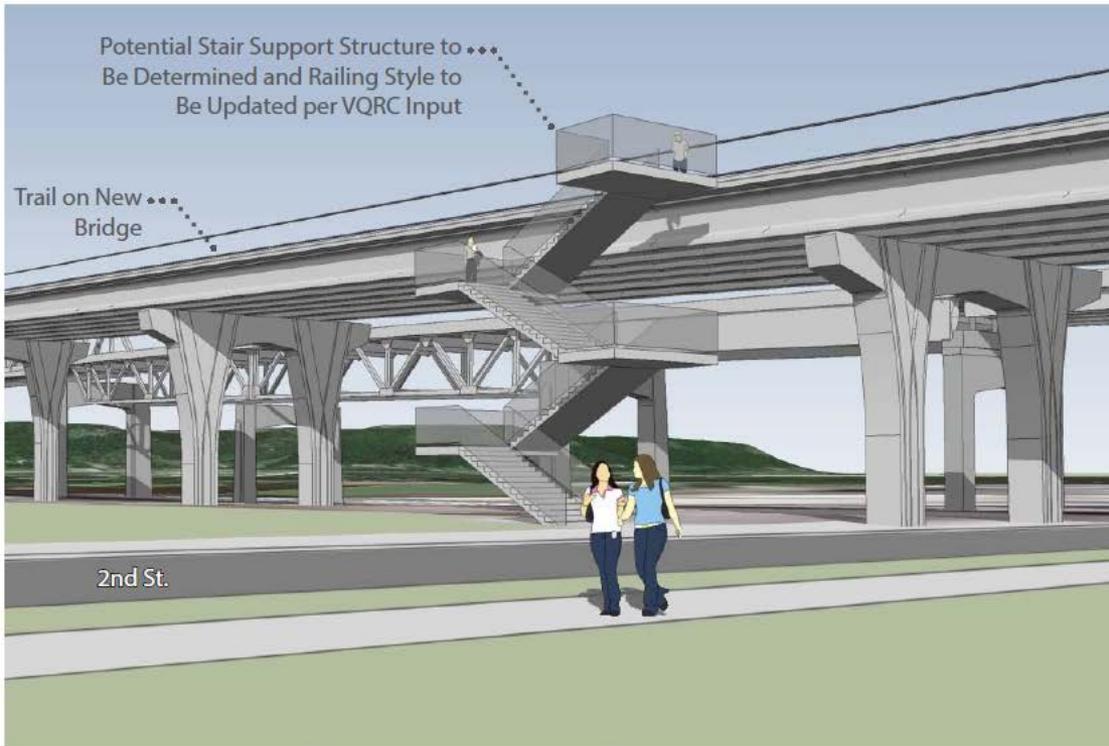


View from Trailhead on Levee

# Visual Quality Committee Recommendations

## PEDESTRIAN/BICYCLE CIRCULATION

S. Approach 



Overall Stair Size

Height - 37'

Length - 30'

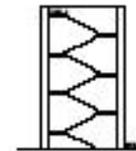
Width - 15'

Note: Stair structure and railing design is shown only in conceptual detail to illustrate approximate size

# Visual Quality Committee Recommendations

## RIVER CONNECTION

## Vertical Access Concept B - Stair



Overall Stair Size

Height - 58'

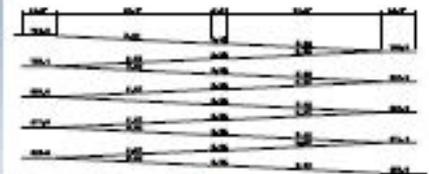
Length - 30'

Width - 15'

# Visual Quality Committee Recommendations

## RIVER CONNECTION

### Vertical Access Concept C - Switchback



Overall Ramp Size

Height - 58'

Length - 160'

Width - 30'

# Visual Quality Committee Recommendations

## RIVER CONNECTION

### Vertical Access Concept D - Switchback



Overall Ramp Size

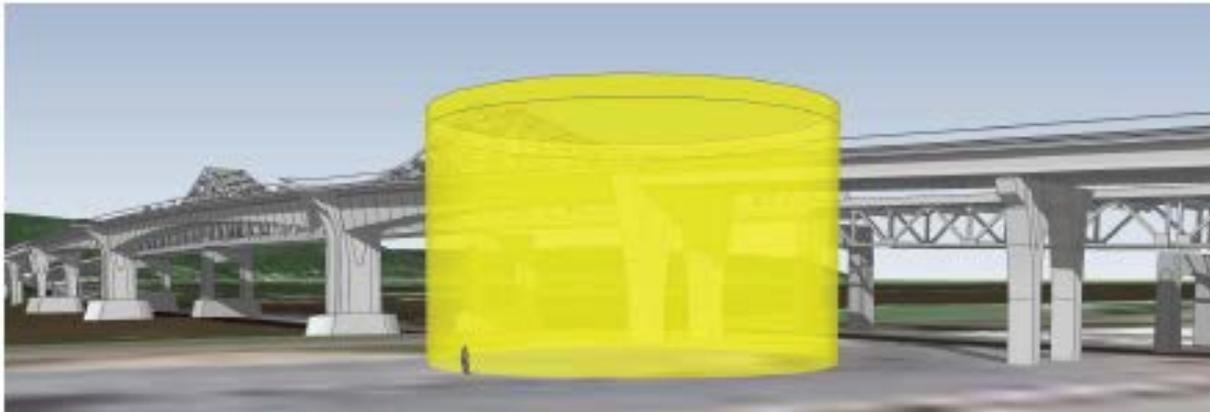
Height - 51'

Length - 150'

Width - 30'

# Visual Quality Committee Recommendations

## RIVER CONNECTION Vertical Access Concept E - Helical Ramp



Overall Ramp Size

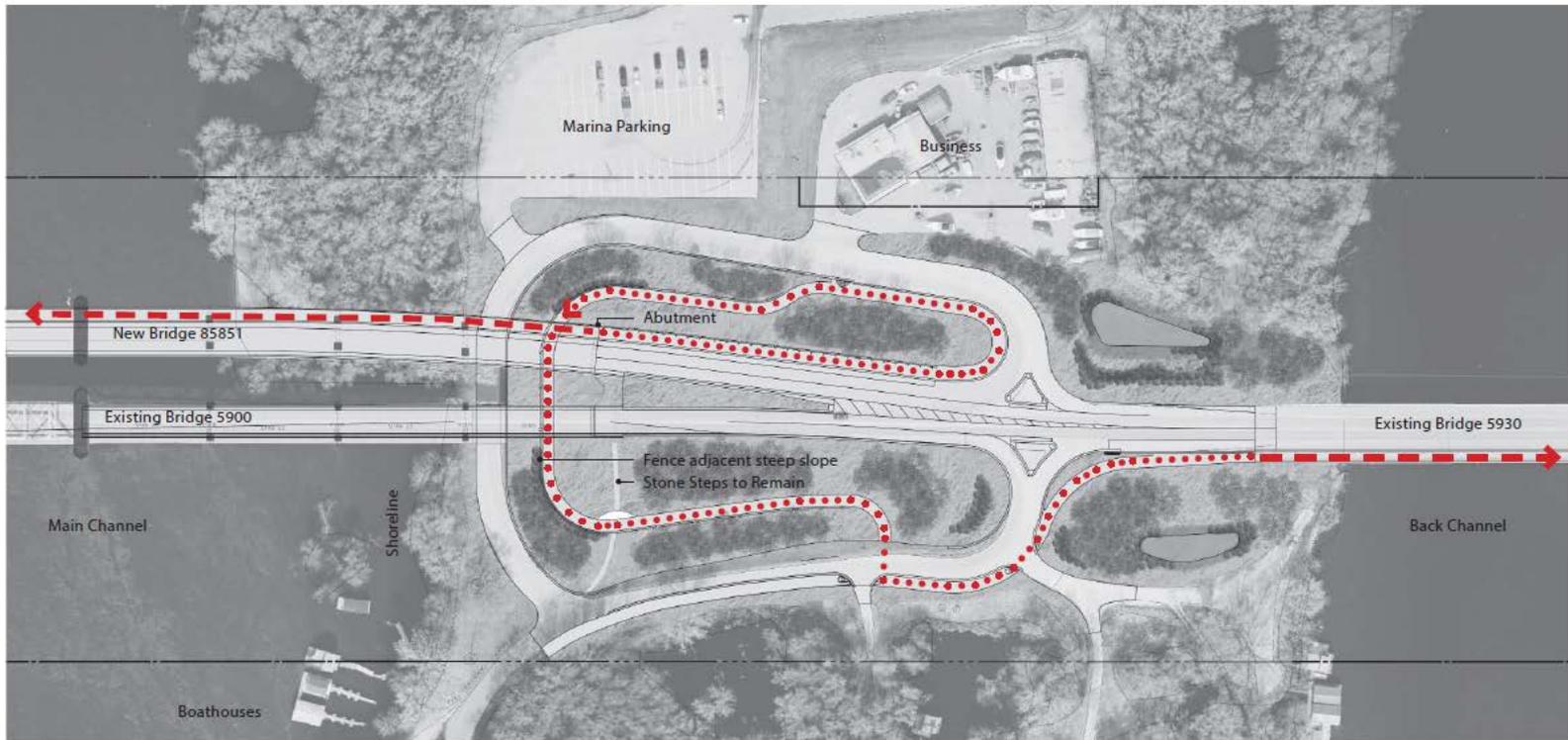
Height - 58'

Length/Width - 116' (Circular)

# Visual Quality Committee Recommendations

## PEDESTRIAN/BICYCLE CIRCULATION

N. Approach 



- - - Bridge Trail
- . . . . . At-Grade Trail (Above 100 Yr Flood Plain Elevation)



# Visual Quality Committee Recommendations

## RIVER CONNECTION/LANDSCAPING

N. Approach



..... 100 Year Flood Elevation

..... Trail Under Bridges

..... Tree and Shrub Massings and Native Prairie Seeding



# Visual Quality Committee Recommendations

## SIGNAGE

### North Approach Area



Existing Type 3 Sign

Note: Further input from MnDOT's Site Development Unit that manages State Entry Signs statewide is required.



Type 1 Sign



Type 2 Historic Sign

# Visual Quality Committee Recommendations

## CIVIC IDENTITY / PUBLIC ART





# Next Steps / Timelines





# Next Steps / Timelines

## Visual Quality Review Committee Activities



### Preliminary Design VQRC Meetings 1-7

Bridge Piers and Overlooks  
Bridge Abutments and Retaining Walls  
Pedestrian Railings  
Traffic Barriers  
Bridge Colors  
Bridge Roadway Lighting  
Bridge Aesthetic Lighting  
Pedestrian/Bicycle Circulation  
River Connections  
Landscaping  
Signage

### Final Design VQRC Meetings

Bridge Piers and Overlooks  
Bridge Abutments and Retaining Walls  
Pedestrian Railings  
Bridge Colors  
Bridge Aesthetic Lighting  
Entry Sign



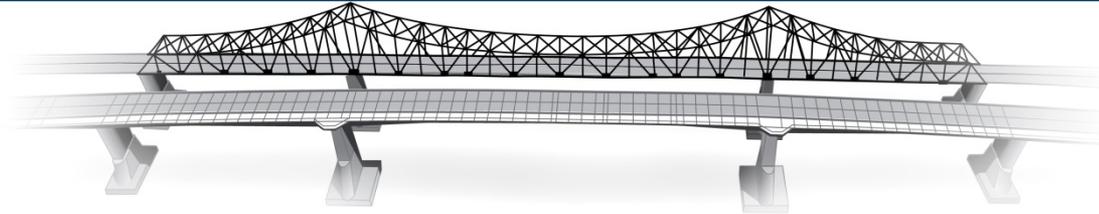
## Next Steps / Timelines

- VQC efforts to date submitted to FHWA, SHPO, Winona HPC and City of Winona, along with preliminary plans.
- Next Final Design VQC meeting March 18<sup>th</sup>.
- Preliminary Cost Estimates and Maintenance responsibilities will be refined.
- VQC work will finish and engagement with city staff will occur in earnest on final details (site plans etc..).
- Cooperative Agreement needed around fall of the year.





# VQC Member Comments



Winona Bridge Project  
Visual Quality Team

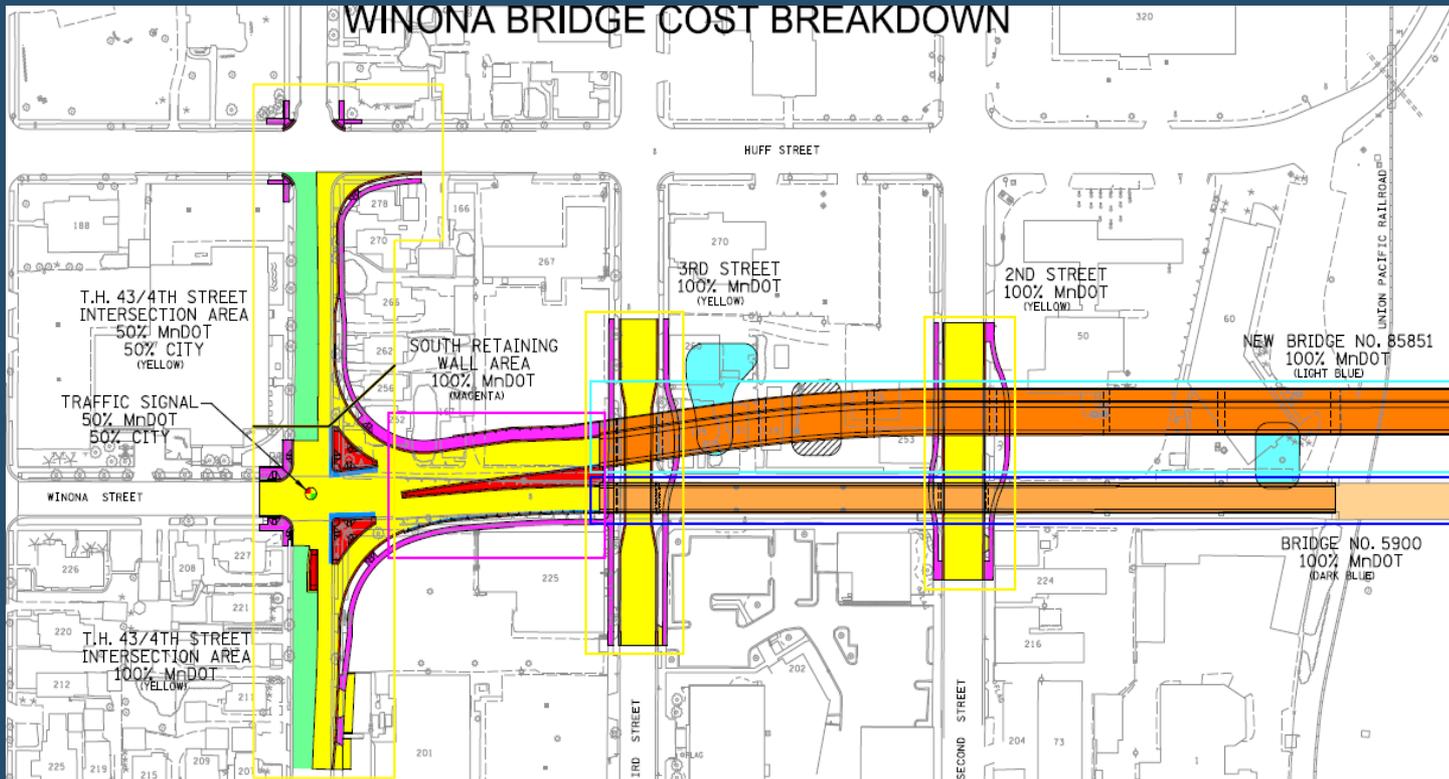




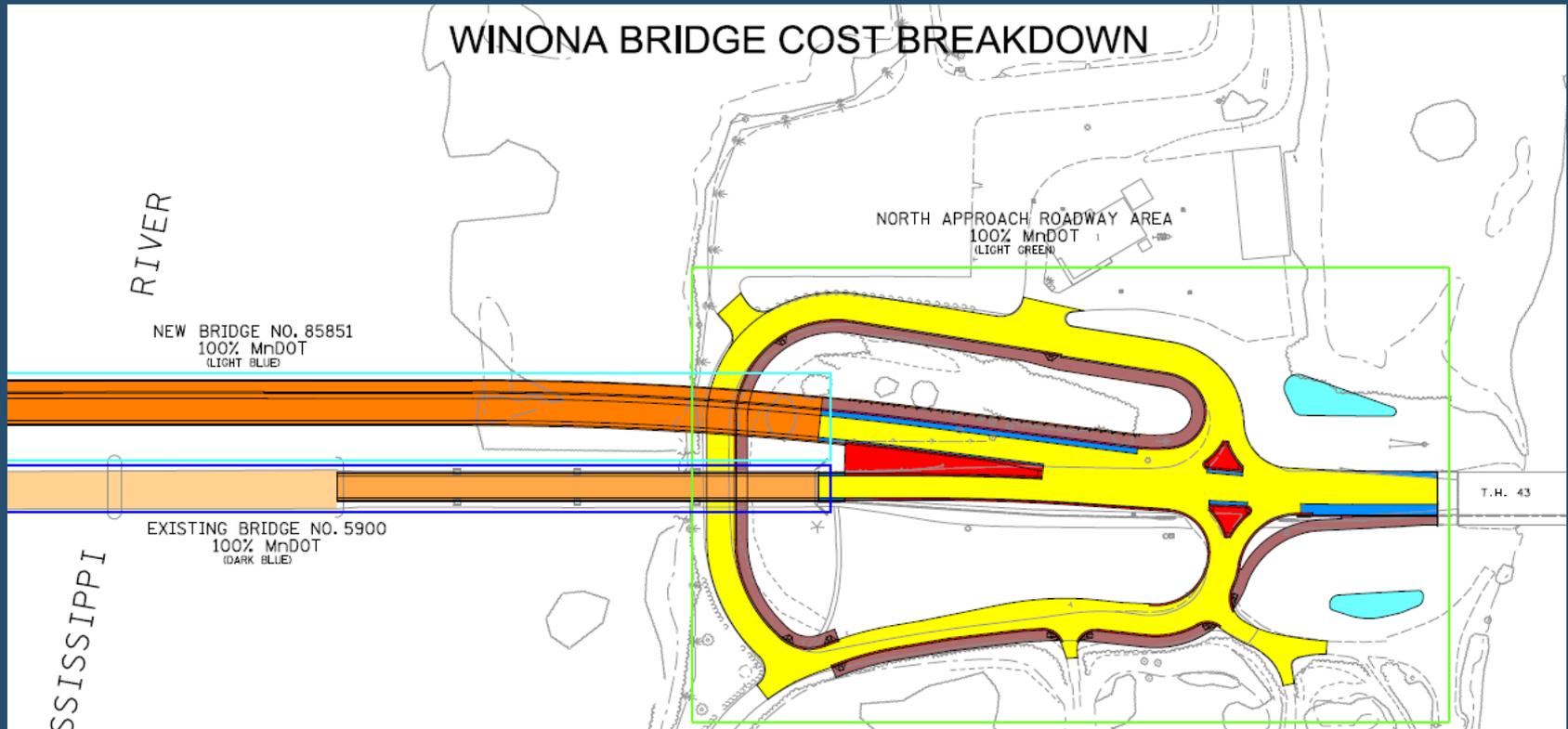
# City Staff Comments



# Maintenance of Traffic



# Maintenance of Traffic



# Questions?

