WINONA BRIDGE
Visual Quality Review Committee
Recap Meeting
December 18, 2013
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
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
The Winona Bridge Project should reflect the current era while respecting the past. The existing bridge is a visual icon for the city, and so the new bridge should defer to its prominent visual presence. The new bridge should celebrate the river’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.
PROJECT CONTEXT
PROJECT CONTEXT
View of Bridges Looking Upstream
(Existing Bridge in Foreground)
View of Bridges Looking Downstream
(New Bridge in Foreground / Proposed Trailhead not Illustrated)
View from Existing Bridge - Northbound Towards Latsch Island
PROJECT RENDERINGS

Daytime View

View from New Bridge - Southbound Towards Winona
BRIDGE PIERS AND OVERLOOKS

View of Main Span Looking Downstream
BRIDGE PIERS AND OVERLOOKS

View of Main River Pier 11

Concept B

- Twin Pier Walls
- Pier Base
- 4'-6" Railing Height
  *Update per VQRC input*
- Overlook
BRIDGE PIERS AND OVERLOOKS

View of South Approach Piers
BRIDGE PIERS AND OVERLOOKS

View of Main Span Looking Downstream
BRIDGE PIERS AND OVERLOOKS

View of Main River Pier 11

4'-6" Railing Height
Update per VQRC input
Overlook

Concept A
BRIDGE PIERS AND OVERLOOKS

View of South Approach Piers
COLOR

Color Concept A

Main Piers - Summer

Main Piers - Winter
ABUTMENTS AND WALLS

Plan View

Existing Abutment Corner Pilaster

3rd St.

New Bridge

Abutment Wall

New Corner Treatment

New Retaining Wall

Abutment Connection
Shallow Recess

Existing Corner Treatment
Replaced in Kind

Retaining Wall Replaced in Kind

Existing Bridge

South Abutment
ABUTMENTS AND WALLS

South Abutment

3rd St.

Flat Slab with Haunches

6’ Railing Height
Style to be Updated per VQRC input

Corner Pilaster

4’-6” Railing Height
Wall Surface Treatment

Concept B Approach Piers 1 and 2 Shown
South Abutment

4'-6” Railing Height

Flat Slab with Haunches

6’ Railing Height
Style to be Updated per VQRC input

Corner Pilaster

Wall Surface Treatment

Concept A Approach Piers 1 and 2 Shown

3rd St.
ABUTMENTS AND WALLS

North Abutment Plan View

- New Bridge
- Stone Slope Paving Replaced below Bridge
- Existing Bridge
- Rip Rap below Bridge
- Abutment
- Retaining Wall
- New Corner Treatment
- Abutment Connection Recess
- Trail below Bridges
- Existing Corner Treatment
ABUTMENTS AND WALLS

North Abutment

Corner Pilaster
4’-6” Railing Height
6’ Railing Height
Style to be Updated per VQRC input

Trail with Fence
Rip Rap Slope Treatment
Latsch Island Access Road
RAILINGS AND BARRIERS

Pedestrian Railing Concept 1

Stepped Transition

4'-6" Railing Height  5'-3" Railing Height  6' Railing Height
RAILINGS AND BARRIERS

Hybrid Railing Concept 1/3

Arching Branches Motif/Paddle Wheel Motif at Overlook
RAILINGS AND BARRIERS

Draped Curve Motif (New)

4’-6” Railing Height

Transition

6’ Railing Height

Pedestrian Railing Concept 5
PEDESTRIAN/BICYCLE CIRCULATION

S. Approach

New Bridge 85851
Existing Bridge 5900
Potential Stair
Abutment
Potential Path at Ground Level
Project Area Including Acquisition

Bridge Trail
At-Grade Trail
Sidewalk
MRT Trail
Shoulder Bikeway

Winona Bridge Visual Quality Review Committee Meeting 7

Slide 27
PEDESTRIAN/BICYCLE CIRCULATION

Potential Stair Support Structure to Be Determined and Railing Style to Be Updated per VQRC Input

Trail on New Bridge

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
RIVER CONNECTION/LANDSCAPING

Stormwater Pond, typ
Paving Under Bridges

Huff St.

3rd St.
4th St.
2nd St.

Waterfront Trail
Shoreline
Railroad

Small Performance Space
RR Crossing
Overlook Terrace and Trailhead with Kiosk

Historic Paver Area
Terraced Plantings

Approx. 1 Acre Available for Redevelopment

Infiltration Basins

Approx. 0.2 Acre Available for Redevelopment

Stone Seat Walls, typ
Planting Bed and Low Wall, typ
Cross Walk, typ

Potential Stair

Boulder Terraces

Approx. 1 Acre Available for Redevelopment

S. Approach

Winona St.

Kiosk
Entry Plaza

New Bridge 85851
Existing Bridge 5900

0 100

[Map of RIVER CONNECTION/LANDSCAPING with various elements labeled and described.]
PEDESTRIAN/BICYCLE CIRCULATION

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

N. Approach

Winona Bridge Visual Quality Review Committee Meeting 7

Slide 30
RIVER CONNECTION/LANDSCAPING

N. Approach

100 Year Flood Elevation

Native Wet Meadow Seeding Around Ponds

Fence adjacent steep slope
Stone Steps to Remain

Tree and Shrub Massings and Native Prairie Seeding

Trail Under Bridges

Boathouses

Main Channel

Back Channel

Shoreline

Marina Parking

Business

New Bridge 85851

Existing Bridge 5900

Existing Bridge 5930

RIVER CONNECTION/LANDSCAPING

Winona Bridge Visual Quality Review Committee Meeting 7

Slide 31
SIGNAGE

South Approach Area

Plan View

- Overhead Sign Bridge (Sign 1)
- Cantilever Overhead Sign (Sign 2)

Sign 1 Messages:
- SOUTH
- MINNESOTA
- 43
- Winona St
- Update to Street

Sign 2 Message:
- TO
- Riverview Dr
- NEXT RIGHT
SIGNAGE

North Approach Area

- Cantilever Overhead Sign (Sign 3)
- Potential State Entrance Sign
- New Bridge 5900
- Existing Bridge 5930
- Main Channel
- Shoreline
- Boathouses
- Back Channel

Plan View

Winona Bridge Visual Quality Review Committee Meeting 7

Sign 3 Message

State Entry Sign
**LIGHTING**

**Roadway and Trail Lighting - Approach Areas**

**“Base” Design Cross Section Views (Looking North)**

**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)

- MnDOT Standard LED Light Pole (Approx. 35’ Mounting Height)
- Potential Enhanced Luminaire and Pole for New Bridge
- Original Light Standard (Approx. 25’ Mounting Height)
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)

Potential Enhanced Luminaire and Pole for New Bridge

Replica Original Light Fixture (Mounted to Truss Bracing)

“Base” Design Cross Section Views (Looking North)

Winona Bridge Visual Quality Review Committee Meeting 7
LIGHTING

**Aesthetic Lighting - Concept A**

**NEW BRIDGE:**
- Wash of light on fascia of new bridge fades from “bright” to “dim” from main span piers to center of span.
- Wash of light on inside and outside faces of main span piers.
- Wash of light on outside faces of all Winona piers.

**TRUSS BRIDGE:**
- Wash of light from tops of angled members down roadway-facing sides of “vertical” angled members.
- Wash of light across vertical faces of horizontal members at top of truss structure.
- Wash of light on outside faces of main span and Winona piers.
LIGHTING

Aesthetic Lighting - Concept B

NEW BRIDGE:
• WASH OF LIGHT ON UNDERSIDE OF HAUNCHED GIRDERS FADES FROM “BRIGHT” TO “DIM” FROM MAIN SPAN PIERS TO CENTER OF SPAN.
• WASH OF LIGHT ON INSIDE FACES OF MAIN SPAN PIERS AND ON INSIDE AND OUTSIDE EDGES OF ALL WINONA PIERS

TRUSS BRIDGE:
• WASH OF LIGHT FROM TOPS OF ANGLED MEMBERS DOWN NORTH AND SOUTH FACING SIDES OF “VERTICAL” ANGLED MEMBERS.
• WASH OF LIGHT ON INSIDE AND OUTSIDE EDGES OF MAIN SPAN AND ALL WINONA PIERS
View of Bridges Looking Upstream
(Existing Bridge in Foreground)
Night Views

View of Bridges Looking Downstream
(New Bridge in Foreground / Proposed Trailhead not Illustrated)
View from Existing Bridge - Northbound Towards Latsch Island
View from New Bridge - Southbound Towards Winona
NEXT STEPS

Visual Quality Manual

Transition to Final Design

Ongoing Coordination with the City of Winona and other Agencies

Ongoing Consultation with MnDOT CRU