



Red Wing Bridge Project



Open House #3
October 1, 2014

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



Presentation Outline

- ▶ Introductions
- ▶ Project History
- ▶ Project Purpose and Process
- ▶ Project Status
- ▶ Public and Agency Involvement
- ▶ Schedule



Project History

- ▶ Wisconsin Environmental Assessment 2004
- ▶ Downtown Red Wing Traffic Study 2005
- ▶ Identified in MN Law Chapter 152 as Tier 1 Bridge 2008
 - Bridge project advanced to 2018
- ▶ Modified downtown traffic flow project 2012
- ▶ Environmental/Preliminary engineering 2012



Project Purpose



Purpose and Need

Primary Purpose:

- ▶ Provide structurally sound bridge crossings of the Mississippi River and Highway 61
- ▶ Improve traffic mobility in the Downtown Red Wing Commercial/Historic District

Secondary Purposes:

- ▶ Continuity of Highway 63
- ▶ Connection to Highway 58 and Highway 61
- ▶ Maintenance of Traffic (M.O.T.)
- ▶ Access to Trenton Island
- ▶ Pedestrian and bicyclist accommodations



Study Process

Both Phases: Public and Agency Involvement

Phase 1: Jan 2012-Mid 2014

- ▶ Data Collection and Analysis
- ▶ Scoping
- ▶ Bridge Feasibility Study and Concept Evaluation
- ▶ Recommended Alternative(s) Selected

Phase 2: Mid 2014-Mid 2015

- ▶ Environmental Documentation
- ▶ Preliminary Bridge and Roadway Design
- ▶ Staging Plan (maintenance of traffic)
- ▶ Municipal Approval of Layout
- ▶ Official Mapping



Project Status



Overview of Major Decisions

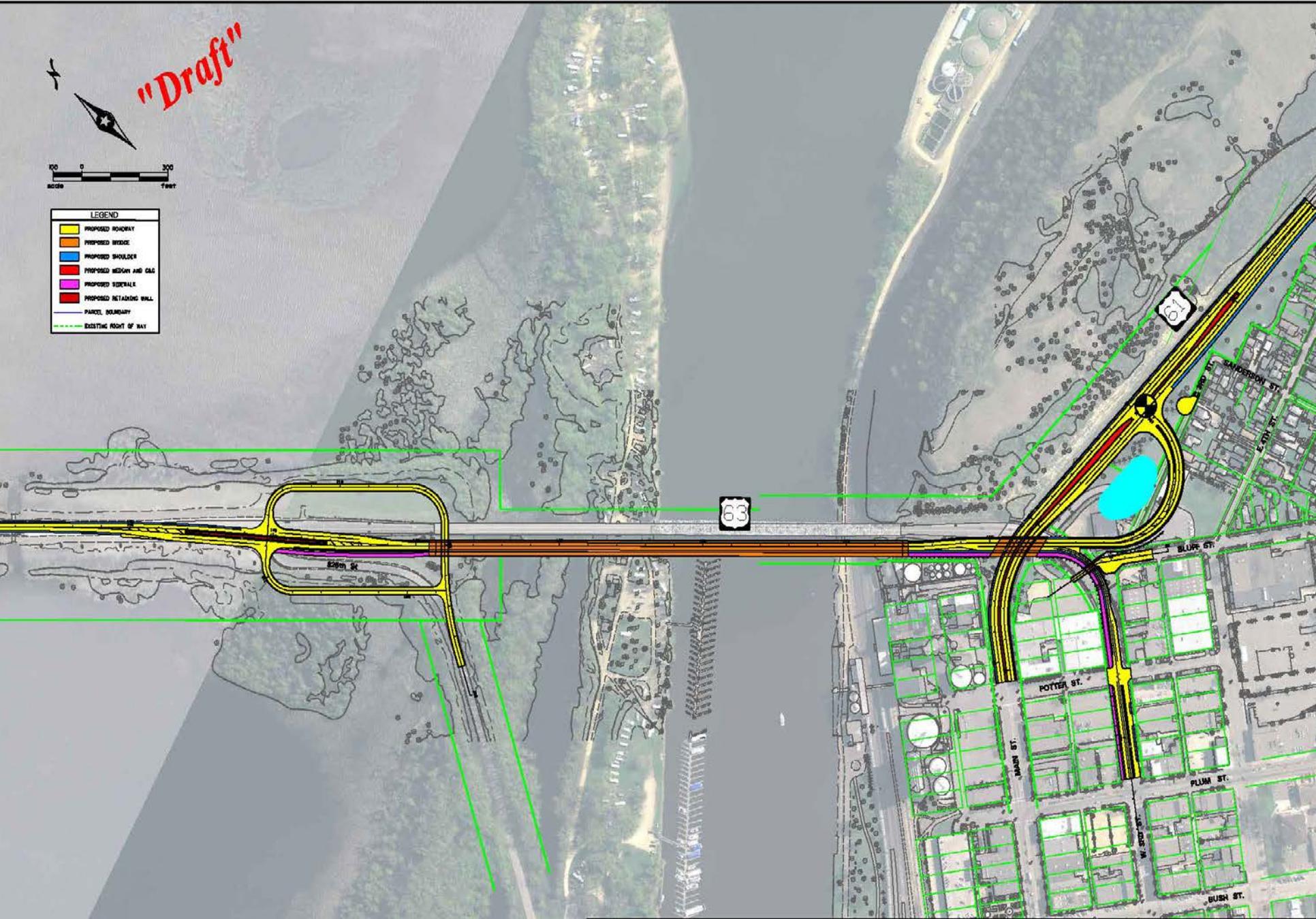
- ▶ Decided to construct a new two-lane river crossing immediately upstream from the existing bridge;
- ▶ Identified a recommended alternative for the Wisconsin approach (jug-handle intersection);
- ▶ Identified a recommended alternative for the Minnesota approach (button-hook with slip-ramp)



"Draft"



LEGEND	
	PROPOSED ROADWAY
	PROPOSED BRIDGE
	PROPOSED SHOULDER
	PROPOSED MEDIAN AND C&G
	PROPOSED SIDEWALK
	PROPOSED RETAINING WALL
	PARCEL BOUNDARY
	EXISTING RIGHT OF WAY



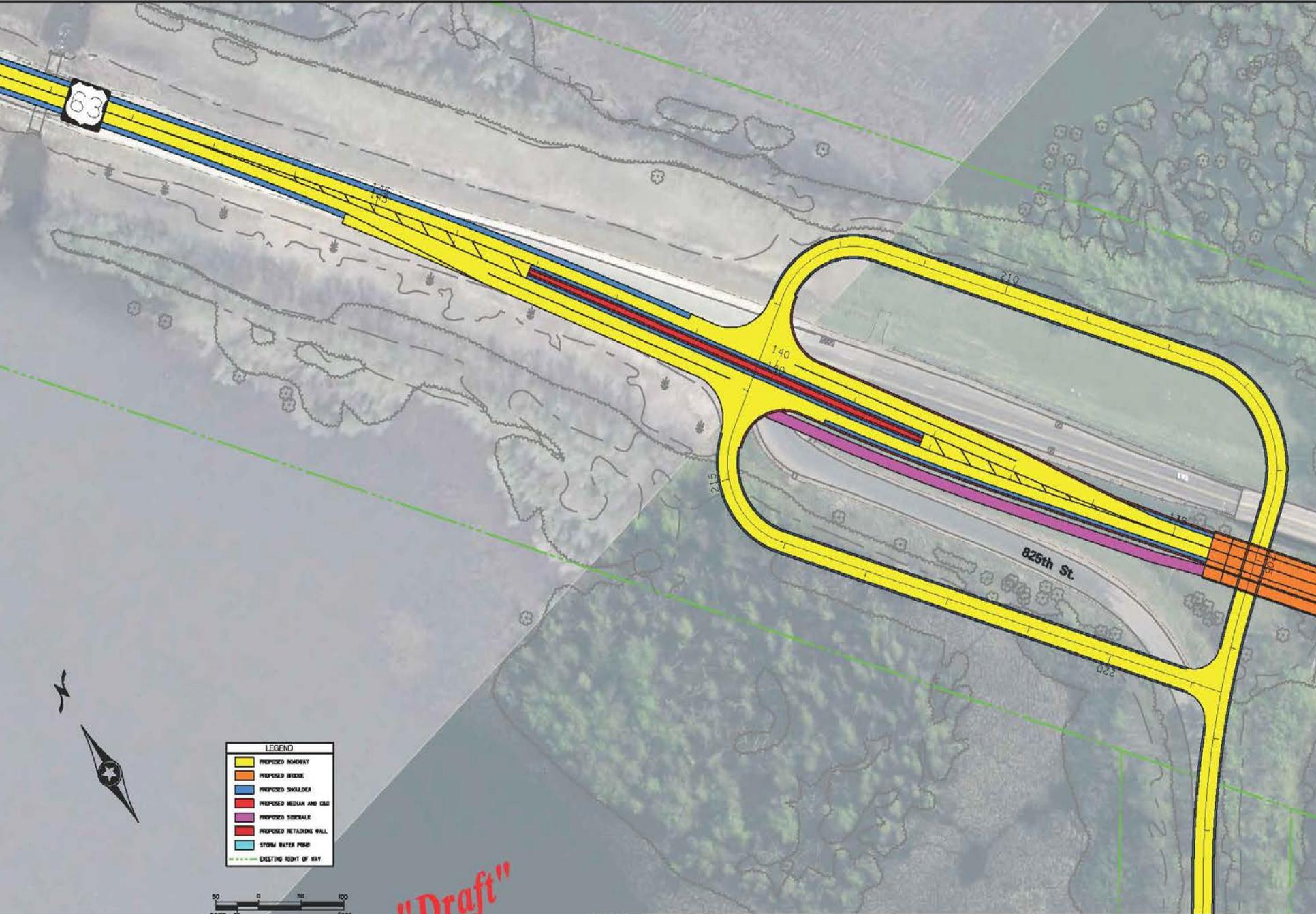
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TH 63 / TH 61
RED WING, MINNESOTA

RECOMMENDED
ALTERNATIVE

CONCEPT

FIGURE



LEGEND

	PROPOSED ROADWAY
	PROPOSED BRIDGE
	PROPOSED SHOULDER
	PROPOSED MEDIAN AND CURB
	PROPOSED SIDEWALK
	PROPOSED RETAINING WALL
	STORM WATER POND
	EXISTING RIGHT OF WAY



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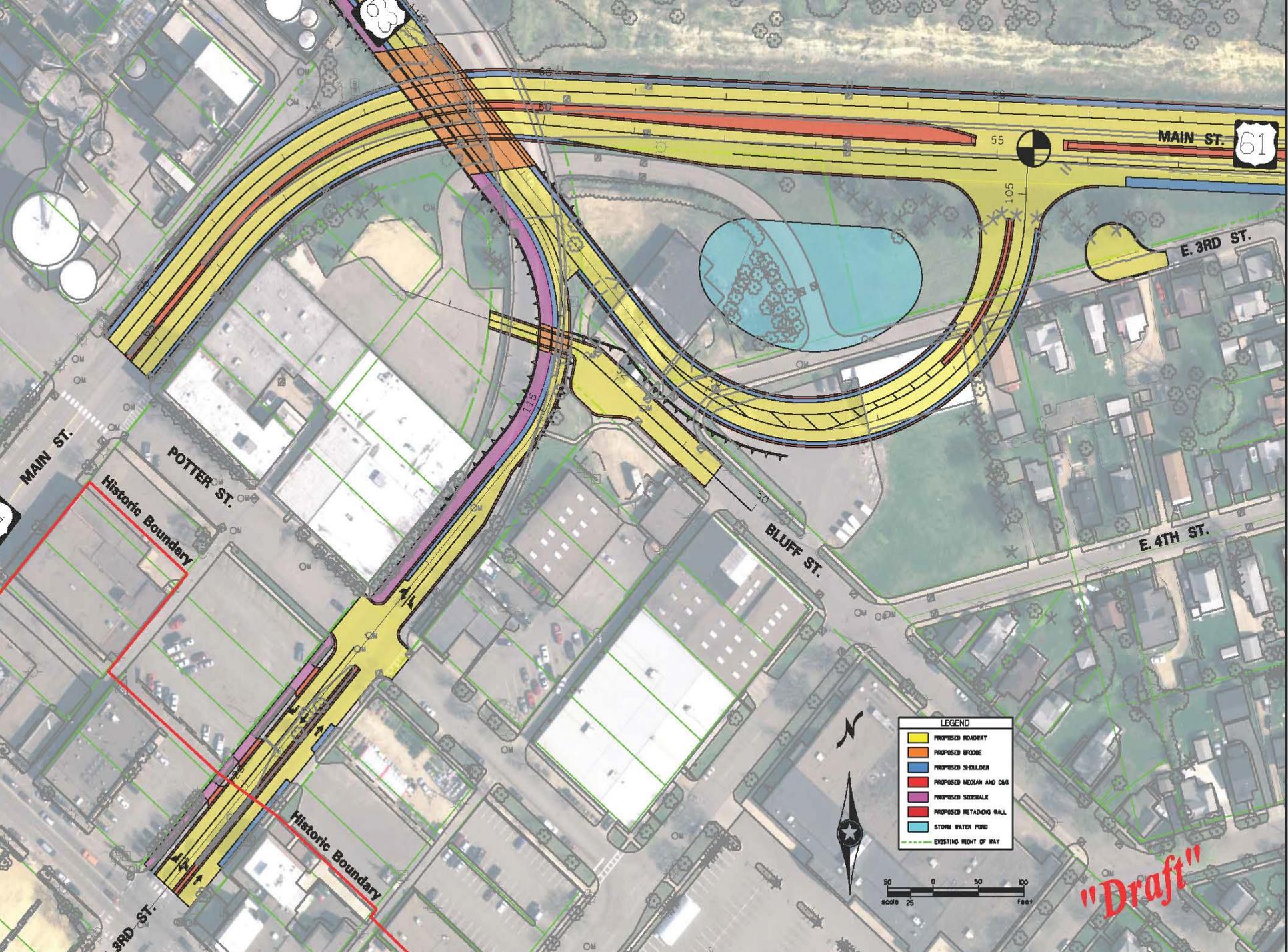


TH 63 / TH 61
RED WING, MINNESOTA

Wisconsin
Approach

CONCEPT

FIGURE



MAIN ST.

E. 3RD ST.

E. 4TH ST.

BLUFF ST.

POTTER ST.

MAIN ST.

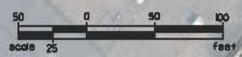
3RD ST.

Historic Boundary

Historic Boundary

LEGEND

- PROPOSED ROADWAY
- PROPOSED BRIDGE
- PROPOSED SHOULDER
- PROPOSED MEDIAN AND C&G
- PROPOSED SIDEWALK
- PROPOSED RETARDING WALL
- STORM WATER POND
- EXISTING RIGHT OF WAY



"Draft"

Environmental Assessment and Preliminary Design



Environmental Assessment Update

- ▶ Detailed impact assessment process addressing federal and state requirements;
- ▶ Addresses the recommended and no-build alternatives;
- ▶ Considers full range of social, economic and natural environmental issues;
- ▶ Concludes with identification of a preferred alternative to advance to detailed design and construction;
- ▶ Technical studies are ongoing.

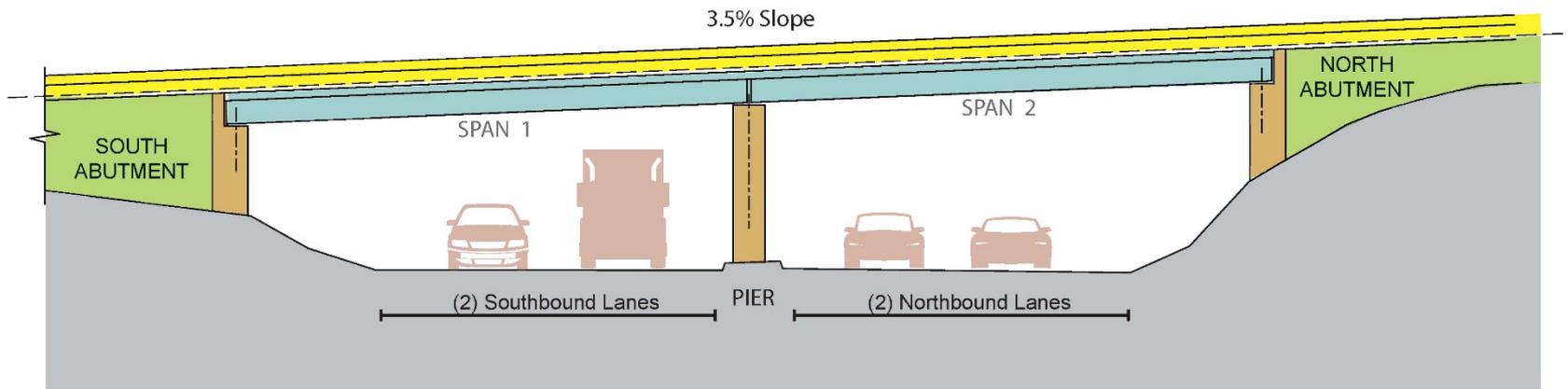


Noise Analysis

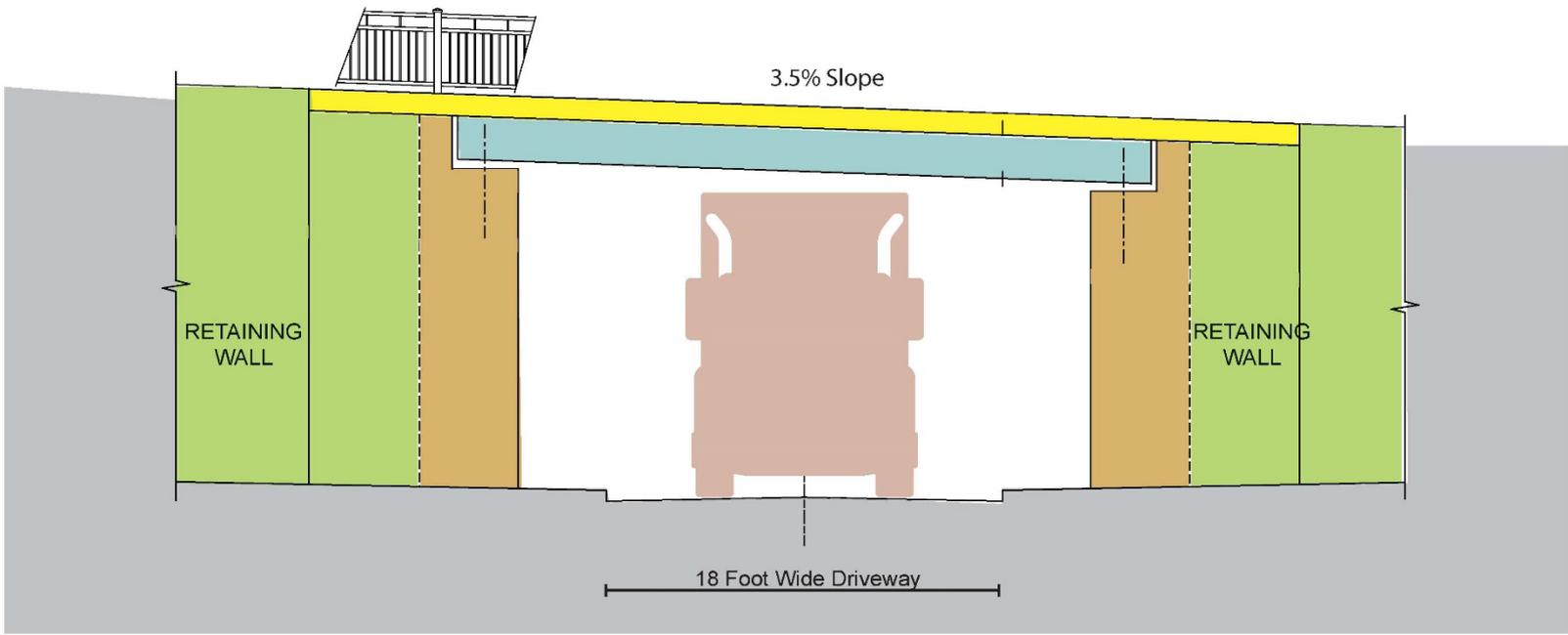
- ▶ Addresses noise levels for existing and proposed conditions
- ▶ Identifies “receptors” that will exceed established standards
- ▶ The cost/benefit is computed for potential noise wall locations
- ▶ Noise walls meeting cost/benefit criteria are brought to the effected properties for a vote



Highway 61 Bridge



Slip Ramp Bridge



Visual Quality Process



Visual Quality Advisory Committee Representatives:

- Photographer, Red Wing Arts Association
- Sargent's Nursery and Red Wing Advisory Planning Commission
- Red Wing Heritage Preservation Commission
- Studio Artist, Transportation Committee, Red Wing 2020
- SHIP Coordinator (Health Improvement), Goodhue County HHS
- Planning Director, City of Red Wing
- Prairie Island Indian Community
- Pierce County Board
- Artist, Town of Trenton
- Student, Planning Intern



2014

APR MAY JUN JUL AUG SEP OCT NOV DEC

Red Wing Bridge Project

- Project Management Team (PMT) Meetings
- Policy/Technical Advisory Committee (PAC/TAC) Meetings
- Public Open Houses

Visual Quality Process & Schedule

Visual Quality Advisory Committee (VQAC) Meetings
 8 approximately monthly meetings, including one design workshop scheduled in September.

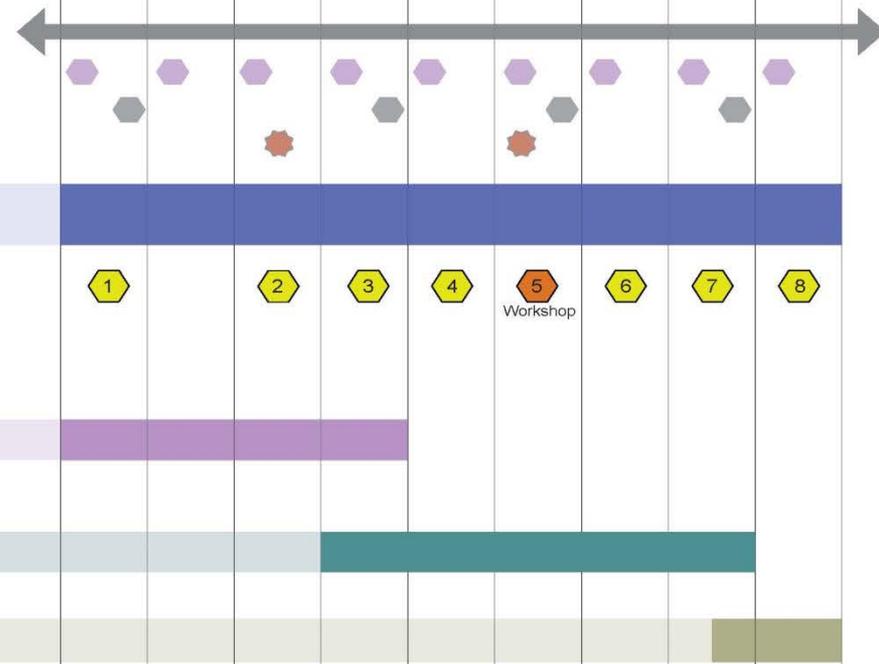
Visual Impact Assessment

Photograph Existing Conditions, Define Context & Setting Designations, Identify Key Vantage Points, Discuss Mitigation and Enhancement Issues & Opportunities

Visual Quality Manual (VQM)

Develop Detailed Design of Project Components, Refine Visualizations, MnDOT/WisDOT VQM Coordination

VQM Approval & Wrap Up



DRAFT 7/15/2014



What has happened during the Visual Quality Process?

- VQAC Meeting # 1- 4
Project Background & Context, River Bridge Pier Concepts A&B, Hybrid Concept C
- VQAC Meeting # 5 (Workshop)
Issues, Opportunities, and Design Directives for the Wisconsin and Minnesota Approaches



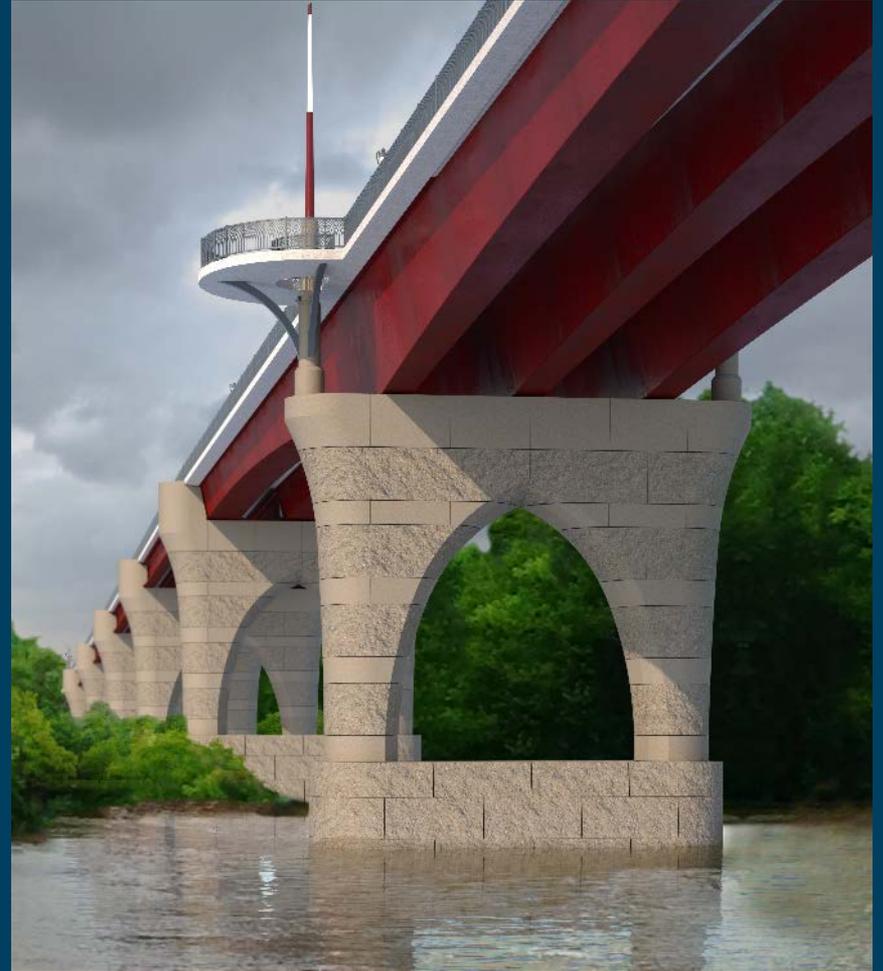
Preliminary Visualizations

River Bridge Piers





Option "A"



Option "B"



Color Options



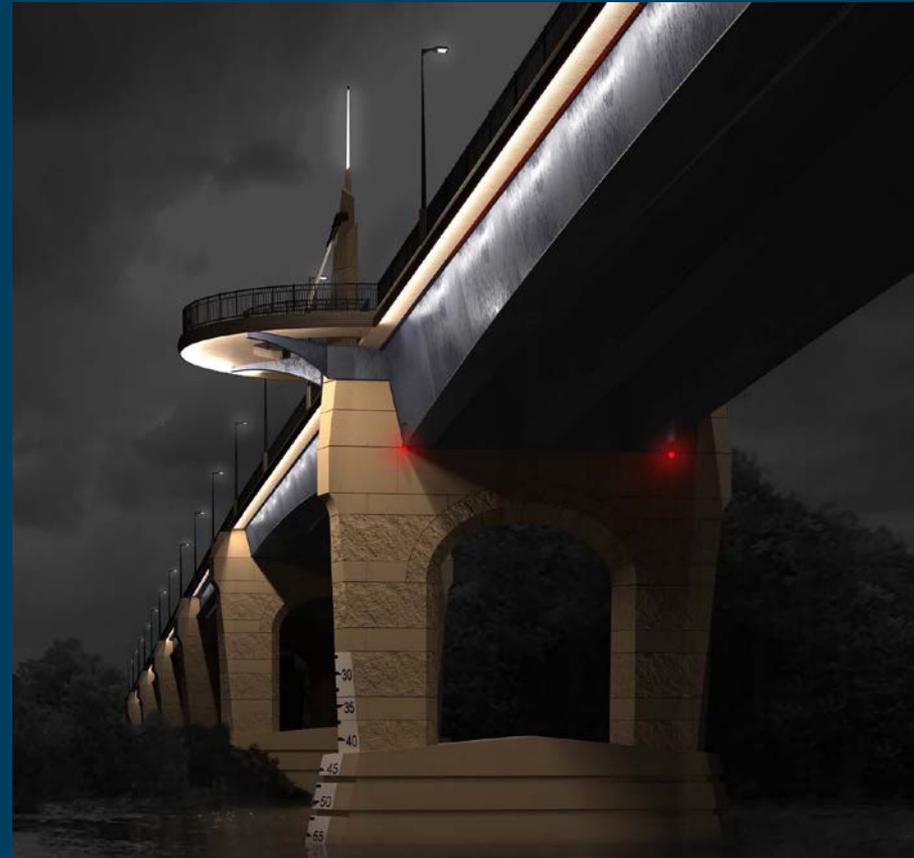
Grey / Beige / Taupe



Hybrid Option "C"



Day

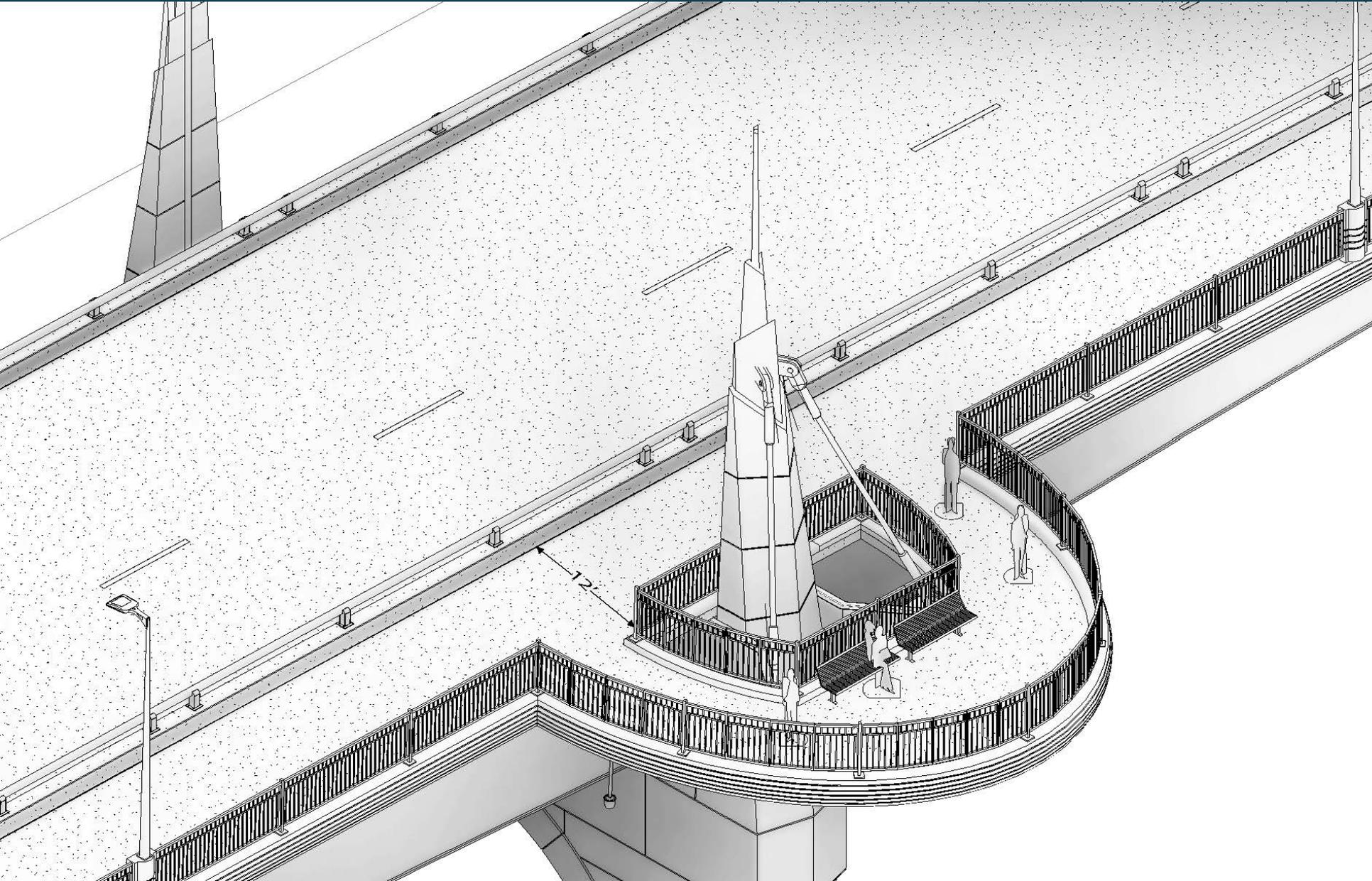


Night





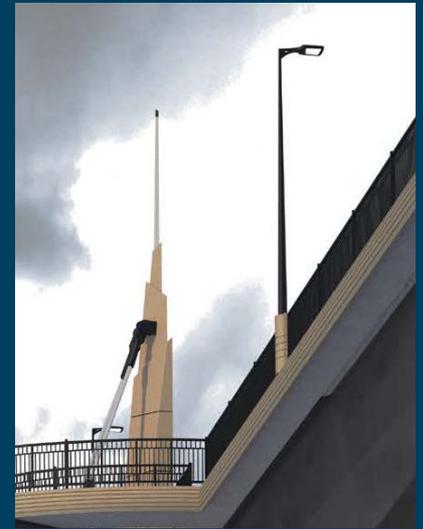
Hybrid Option "C"



Hybrid Option “C”



- Overlooks
- Vertical Gateway Elements
- Ornamental and Crash Rails
- Roadway and Accent Lighting



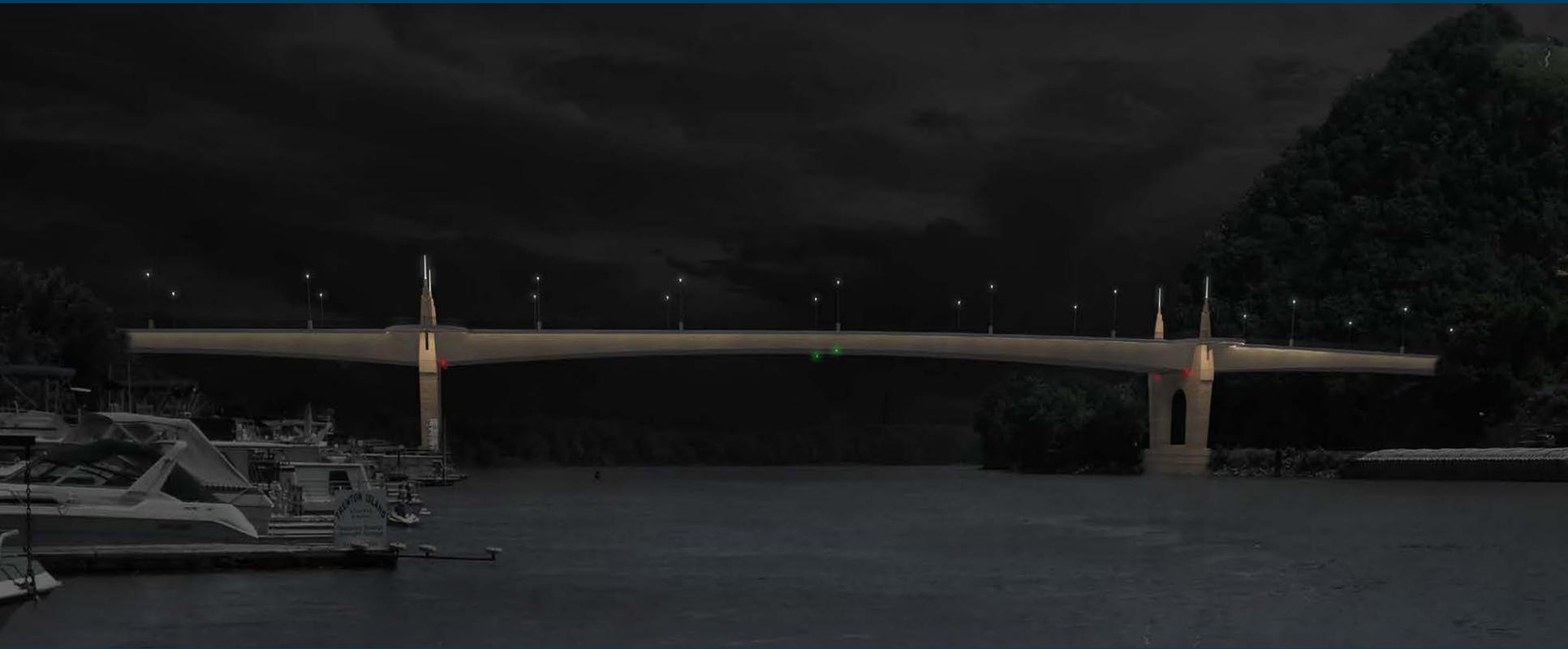
Hybrid Option “C”



Day



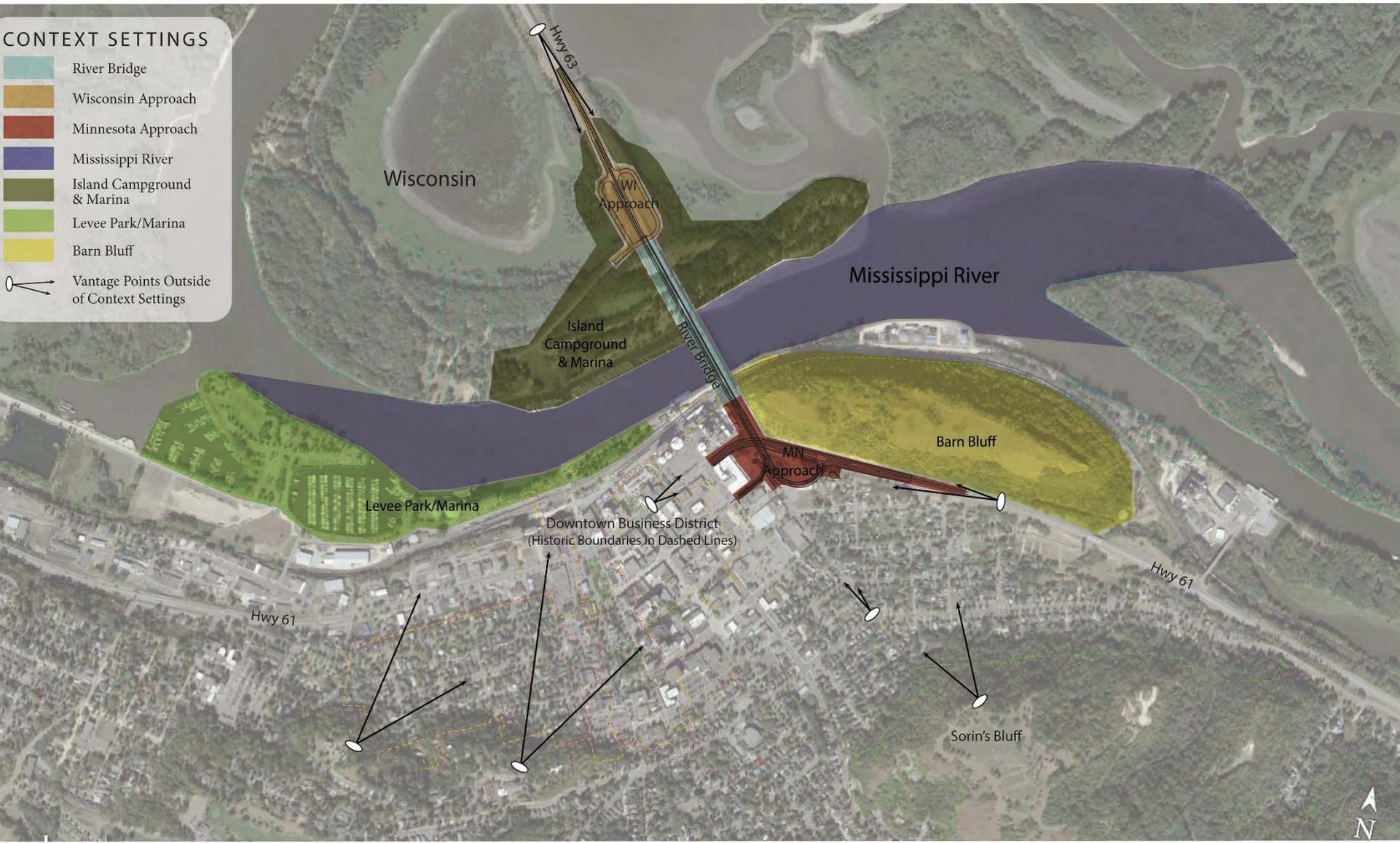
Hybrid Option “C”



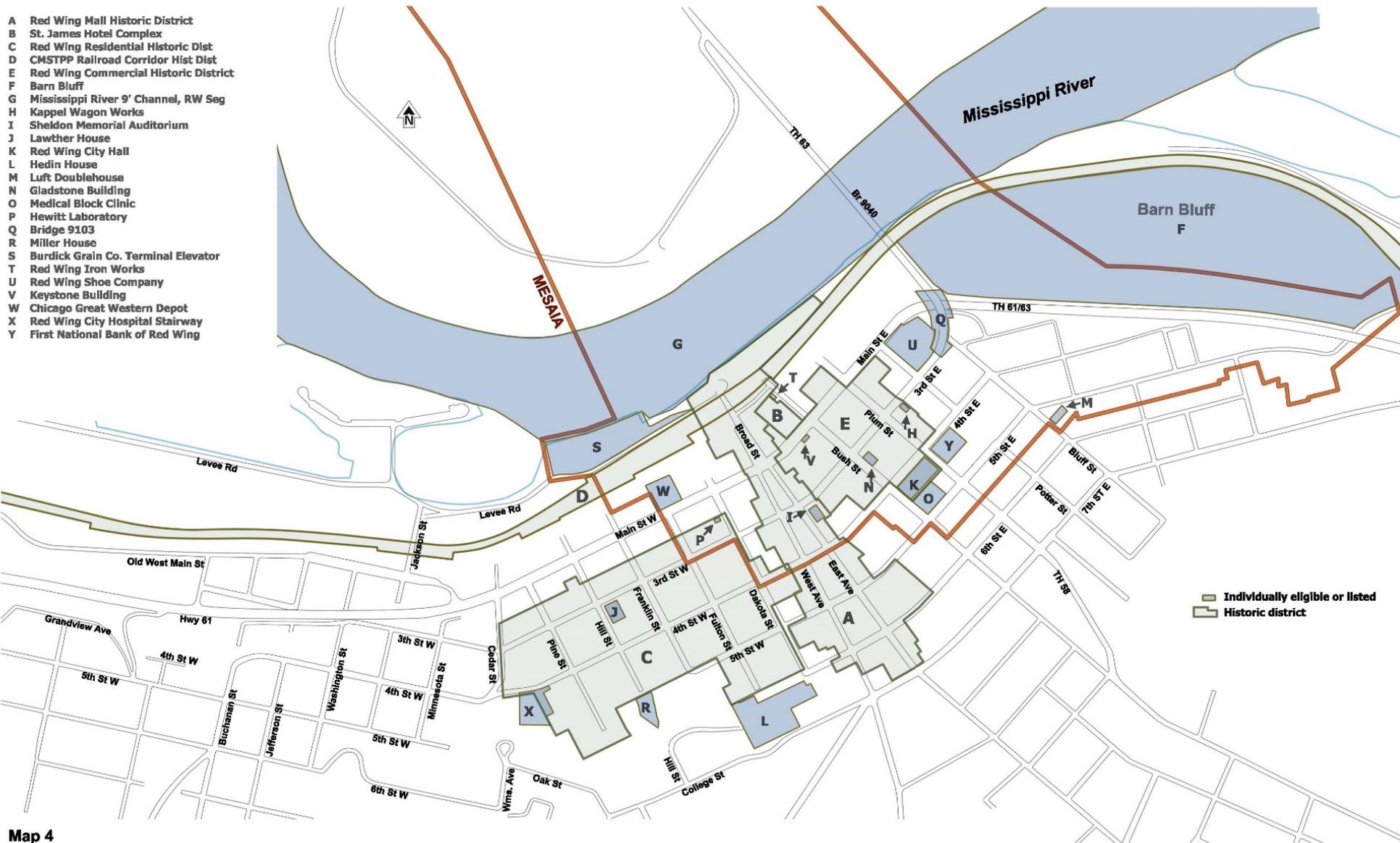
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Context Settings and Historic Resources



- A Red Wing Mall Historic District
- B St. James Hotel Complex
- C Red Wing Residential Historic Dist
- D CMSTPP Railroad Corridor Hist Dist
- E Red Wing Commercial Historic District
- F Barn Bluff
- G Mississippi River 9' Channel, RW Seg
- H Kappel Wagon Works
- I Sheldon Memorial Auditorium
- J Lawther House
- K Red Wing City Hall
- L Hedin House
- M Luft Doublehouse
- N Gladstone Building
- O Medical Block Clinic
- P Hewitt Laboratory
- Q Bridge 9103
- R Miller House
- S Burdick Grain Co. Terminal Elevator
- T Red Wing Iron Works
- U Red Wing Shoe Company
- V Keystone Building
- W Chicago Great Western Depot
- X Red Wing City Hospital Stairway
- Y First National Bank of Red Wing



Individually eligible or listed
 Historic district

Map 4
Properties in the APE Listed on or Eligible for the National Register

VACATED ROADWAY

- Revegetate with native plantings
- Coordinate with "Friends of the Bluff Landscape Plan"
- Preserve view of bluff
- Terracing down to Hwy 61
- Preserve space for potential future parallel bridge

BARN BLUFF

- Sensitive cultural/historic resource
- Views of exposed geology/limestone
- Avoid/minimize cut and fill
- Avoid light pollution
- Traffic calming and safety

Hwy 63 / Hwy 61 Concepts

- Downtown Red Wing 20' banner poles in medians, spaced at 100' on center
- Low maintenance desired
- Banners aid in traffic calming
- New intersection and signal
- Lighting at intersection and bridge portal

ADM FACILITY

- Introduce retaining wall
- No anticipated alterations to ADM tanks or property

DOWNTOWN STREETScape

- Coordinate streetscaping, lights and banners, with planned improvements in Downtown Red Wing



RAILINGS

- Continuous ornamental railing on outside edge of path
- Continuous combination crash rail between cars and trail

BUTTONHOOK LANDSCAPE

- Introduce irregular shaped stormwater pond to manage roadway runoff
- Provide marsh/wetland vegetation transition surrounding pond (reeds, cattails, etc.)
- Provide mix of deciduous (some flowering) and conifer trees, shrubs
- Terracing, retaining walls, and abutments to have architectural patterns that are consistent throughout the project area

RED WING SHOE COMPANY DRIVEWAY ACCESS

- New access driveway will be about three feet lower than existing Bluff Street elevation
- Tall retaining wall is an opportunity for public art panels

CITY MAINTENANCE & COMMUNITY GARDEN

- Construct new city maintenance building and parking approximately where the community garden is located
- Relocate community garden to the north and east, provide buffer for East 3rd Street residents
- Consider terracing and/or bench for gardeners

HISTORIC BOUNDARIES

- Roadway design shifted to reduce potential adverse effects on Red Wing Shoe Company building
- Blend new pavement into existing roadway grid, including a portion of roadway in Historic Downtown





Potter St

Red Wing Shoe Company
Historic Boundary

Bluff St

E. 4th St

E. 3rd St

New Plots



Wisconsin Design Directives

VQAC Workshop September 2014

JUG HANDLE APPROACH

- Improves safety while maintaining access at intersection

PARKING

- Introduce parking on paved shoulders

ABUTMENT AND RETAINING WALLS

- Proposed using same architectural patterns, colors, and textures throughout project
- Limestone rip rap

RESTORE VEGETATION

- Limit mowing maintenance and encourage river bottom land vegetation to reestablish on slopes along roadway

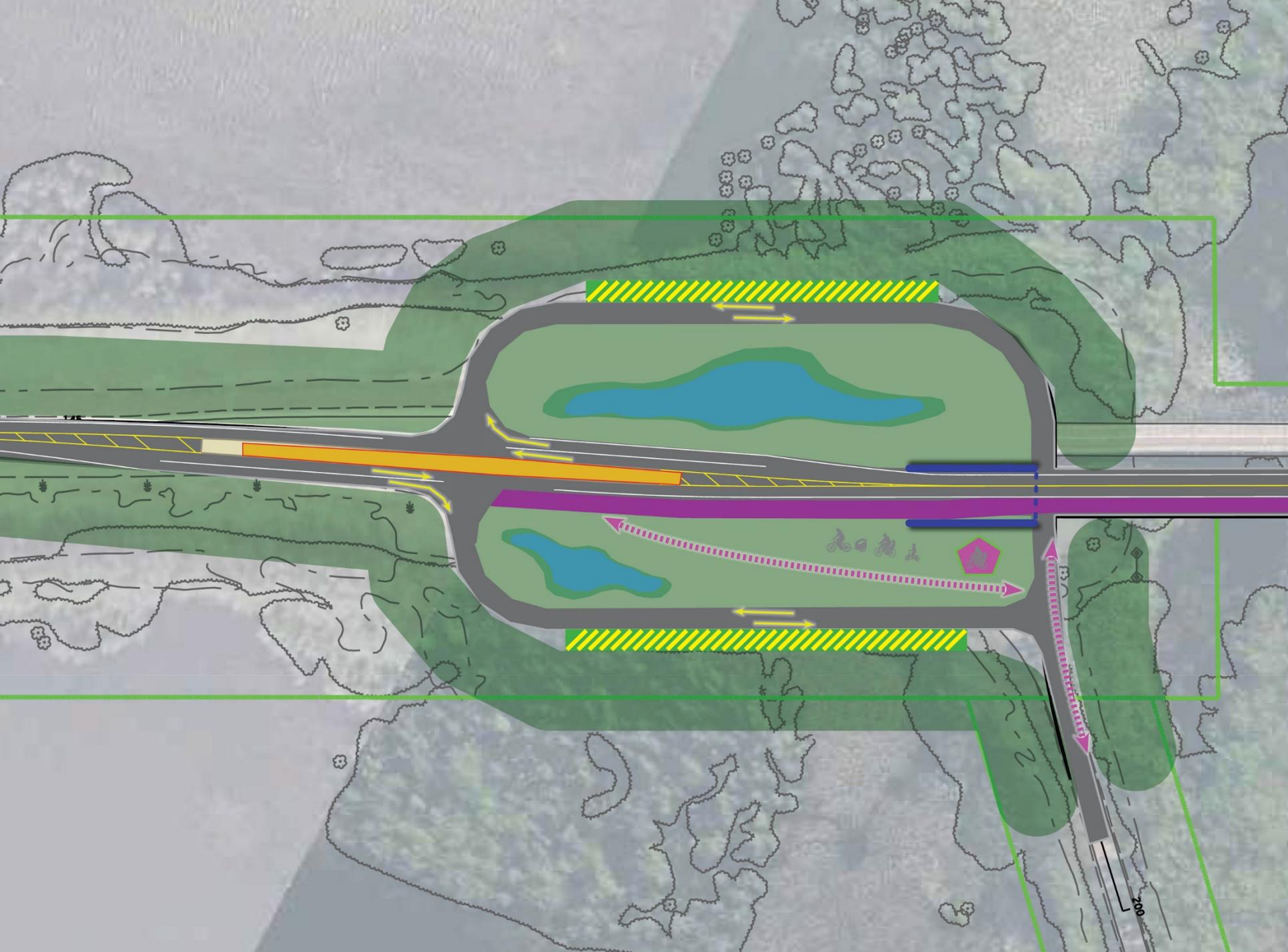
STORMWATER & NATIVE PLANTS

- Incorporate native plants and grasses that require minimal maintenance
- Manage stormwater run off

TRAIL CONNECTIONS

- Encourage trail connections to the river and marina
- Consider a bike rest area





Next Steps for Visual Quality Process

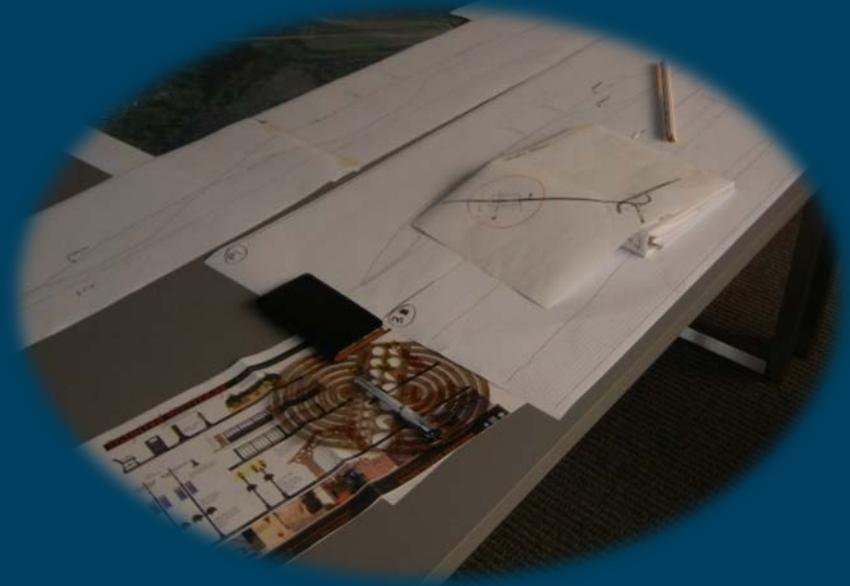
- VQAC Meeting # 6 in November

*Finalize River Bridge Pier
Concept*

*Review Summary of Design
Directives from Workshop*

- VQAC Meetings # 7 and # 8

Develop Visual Quality Manual



Public Outreach Update

- ▶ To Date
 - Three Open Houses
 - Five Listening Sessions
 - Three Newsletters
 - Nine Policy Advisory Committee Meetings
 - Numerous Project Presentations
- ▶ Website: www.dot.state.mn.us/d6/projects/redwing-bridge/index.html



Schedule

- ▶ Publish EA for Review and Comment – February 2015
- ▶ EA Public Hearing – March 2015
- ▶ Complete Environmental Review Process – May 2015
- ▶ Complete Preliminary Design Activities – May 2015
- ▶ Final Design – Summer 2015 to Fall 2017
- ▶ Construction – 2018 and 2019



Questions / Comments



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