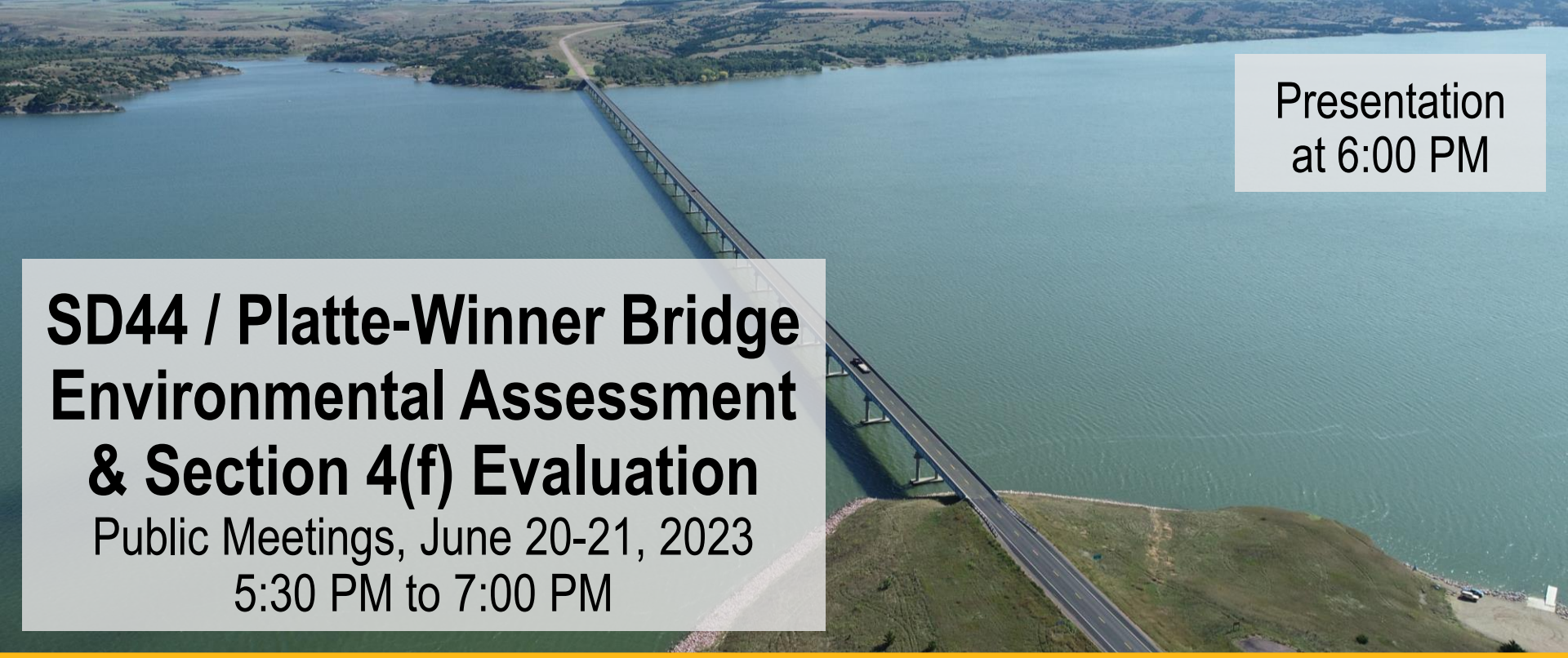


Presentation
at 6:00 PM

SD44 / Platte-Winner Bridge Environmental Assessment & Section 4(f) Evaluation

Public Meetings, June 20-21, 2023
5:30 PM to 7:00 PM

SD DOT

U.S. Department of Transportation
Federal Highway Administration

US Army Corps of Engineers®

UNITED STATES COAST GUARD 1790

HRGreen®

Introductions

Tim Thoreen – Project Manager
Stacy Woodson – Environmental Task Lead

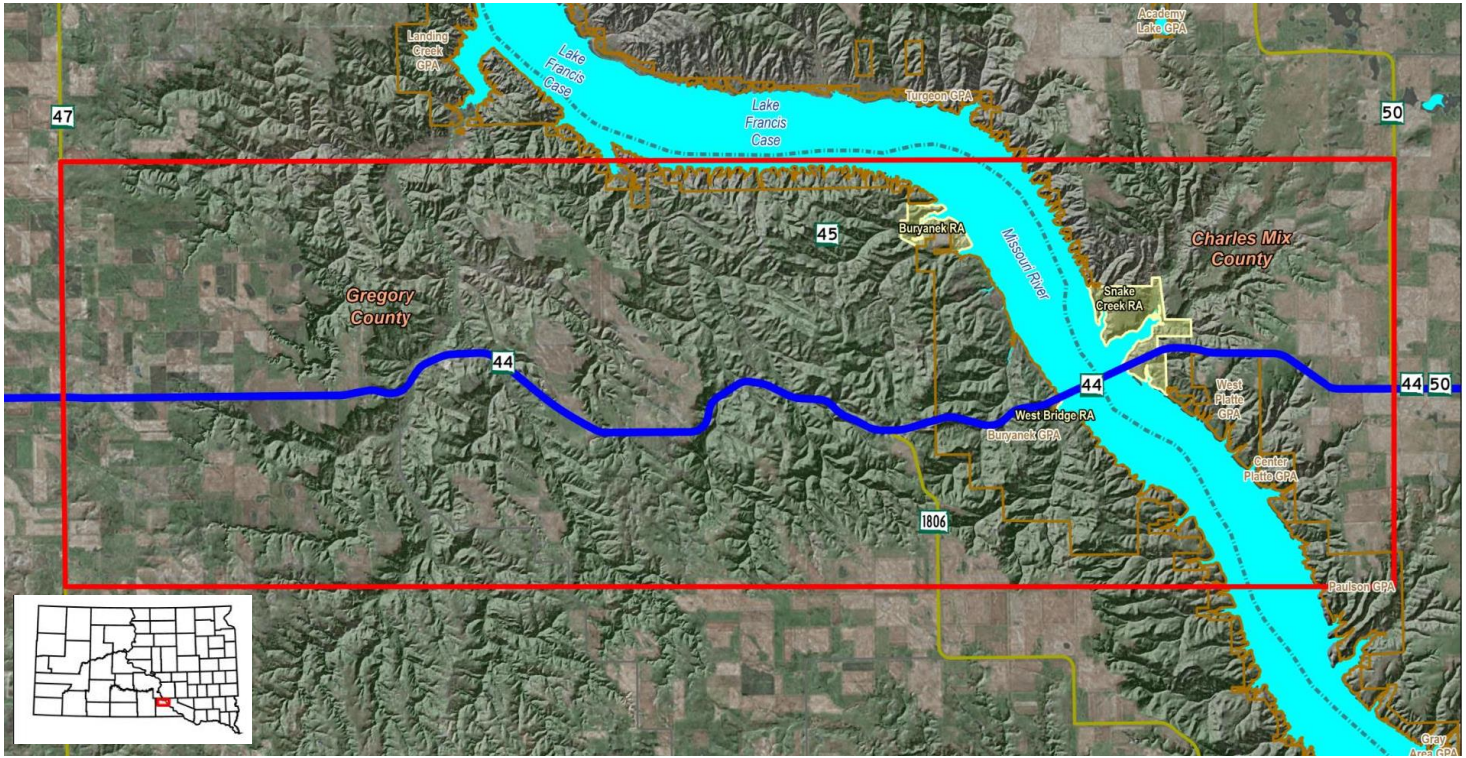
Steve Gramm – Planning Squad Leader
Andrea Bierle – Environmental Engineer

Tom Lehmkuhl – Environmental Engineer

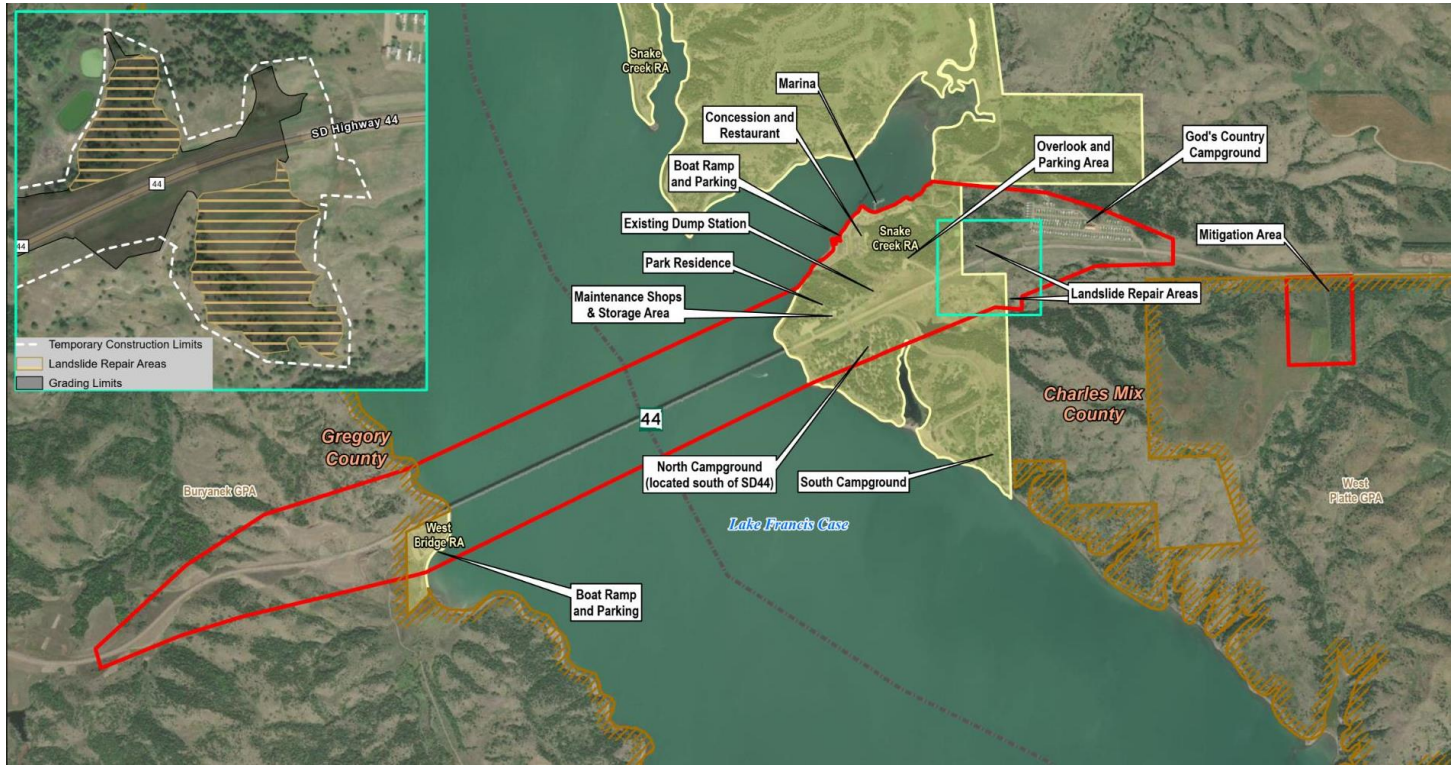
Presentation Overview

- Location and History
- Purpose and Need
- Alternatives
- Environmental Impacts
- Project Sequencing
- Project Schedule
- Next Steps
- How to Submit Comments

Project Location



Project Study Area

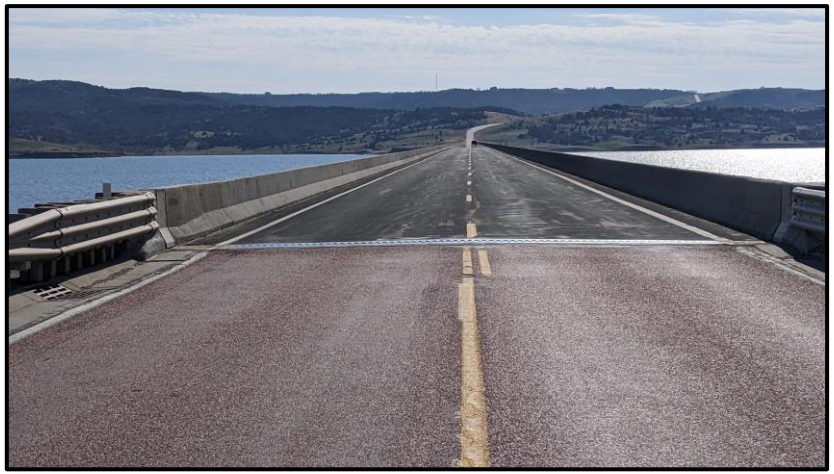


Project History

Date	Item	Results
2016	Major Bridge Investment Study	Identified SD44 Platte-Winner Bridge as a priority
2017	Traffic Operations Analysis, Bridge Type Analysis, Geometrics Review	Determined need for project
May 2017	Public Meeting #1	Introduced environmental study and process
Dec 2017	Public Meeting #2	Discussed environmental constraints
Nov 2019	SD44 Platte-Winner Bridge Corridor Study	Developed, reviewed, and screen alternatives
2020 – 2022	Environmental Studies and Agency Coordination	Evaluated environmental resources and defined constraints
May 2023	Environmental Assessment and Section 4(f) Evaluation Signed	Documents project's environmental impacts
Jun 2023	Public Meeting #3	Opportunity for public comments

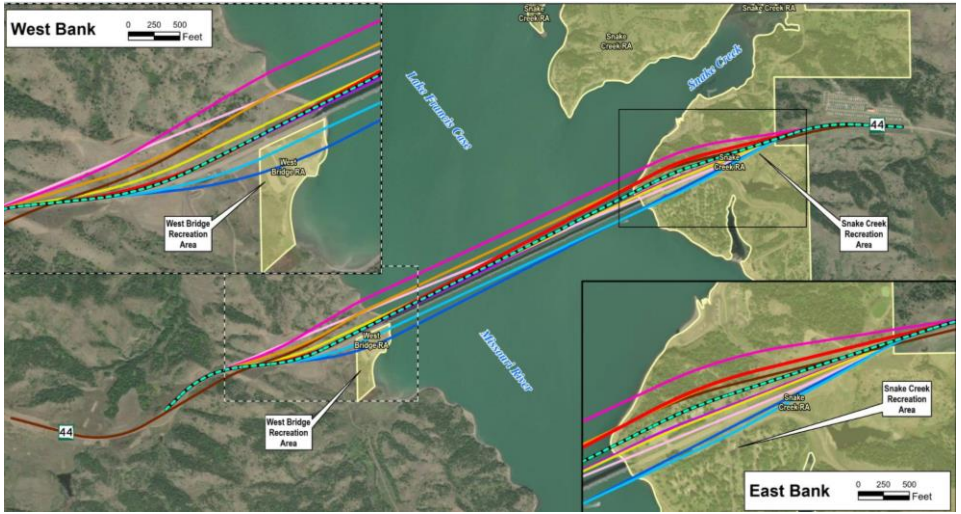
Purpose and Need

- Project Purpose
  - Replace existing bridge to maintain regional connectivity of SD44 across state
- Needs
  - Overall aging infrastructure and long-term maintenance costs
  - Narrow bridge width that does not meet current design standards
- Goals
  - Respect sensitive environmental resources in the corridor
  - Maintain regional connectivity and community cohesion
  - Address known geotechnical concerns in area



Alternatives Considered

- No Build
- Build Alternatives
  - 9 build alternatives considered and refined
  - Screened using criteria, purpose, need, and goals of project
- Criteria
  - Environmental
  - Geotechnical
  - Roadway / Traffic
  - Bridge Location
  - Constructability
  - Maintenance
  - Costs
  - Risk Factors



Recommended Alternative

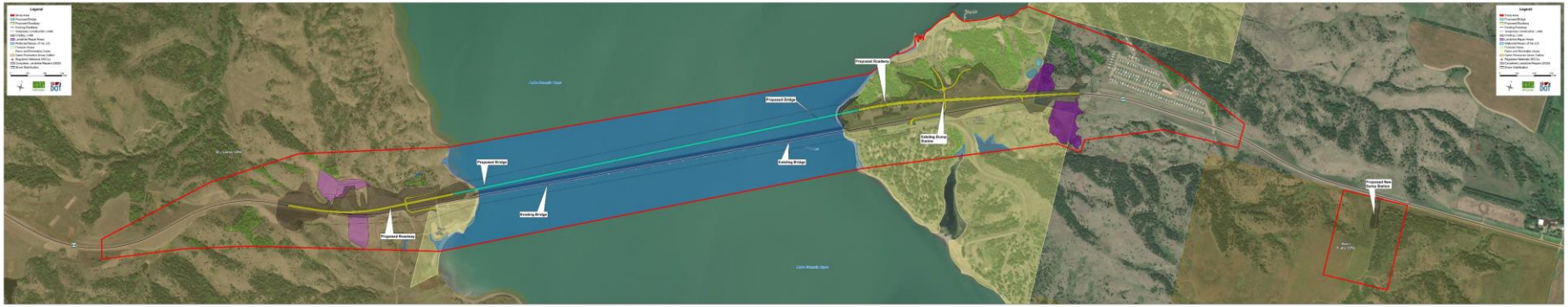
Recommended Alternative

- 36 Feet Wide
  - 6-foot-wide shoulders
  - 12-foot-wide lanes
- 19 Piers in Water
- Addresses landslide areas east of Missouri River
- Avoids/ Minimizes impacts to sensitive environmental resources
- Meets project purpose, needs, and goals

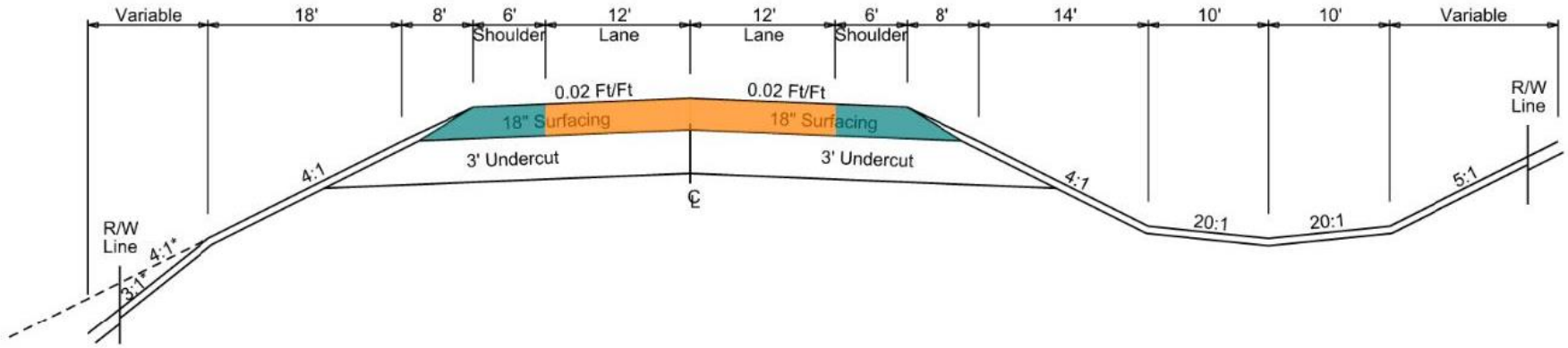
Existing Bridge

- 28 Feet Wide
  - 2-foot-wide shoulders
  - 12-foot-wide lanes
- 27 Piers in Water

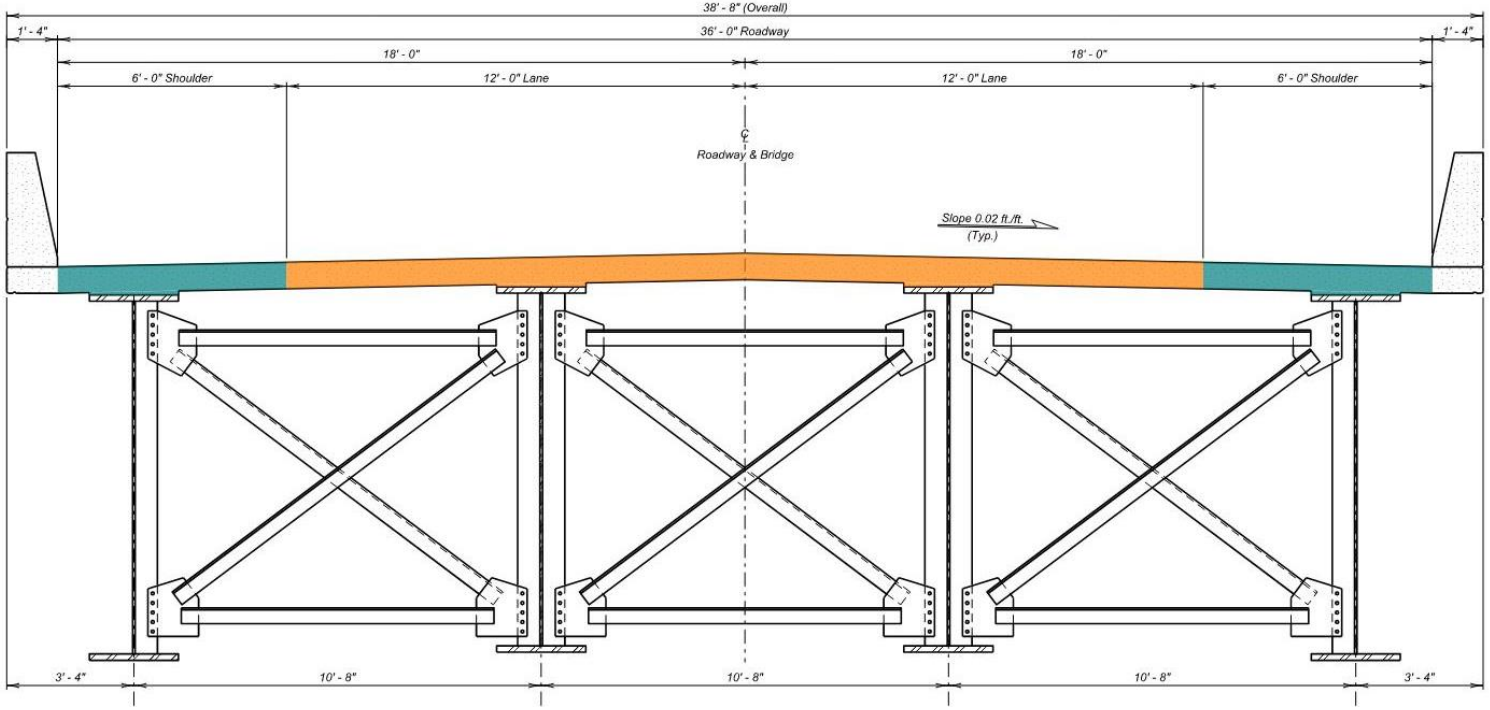
Recommended Alternative



Roadway Cross Sections

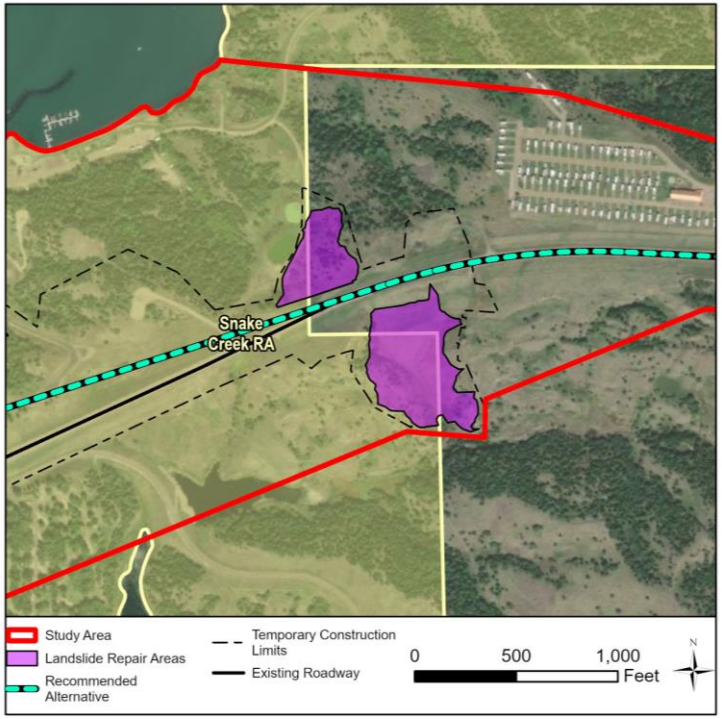


Bridge Cross Sections



Goal - Landslide Repair

- Unstable land in study area, recent activity on both sides of river
- West end (Gregory County) stabilized in 2022 construction
- East end (Charles Mix County) areas addressed during grading of this project

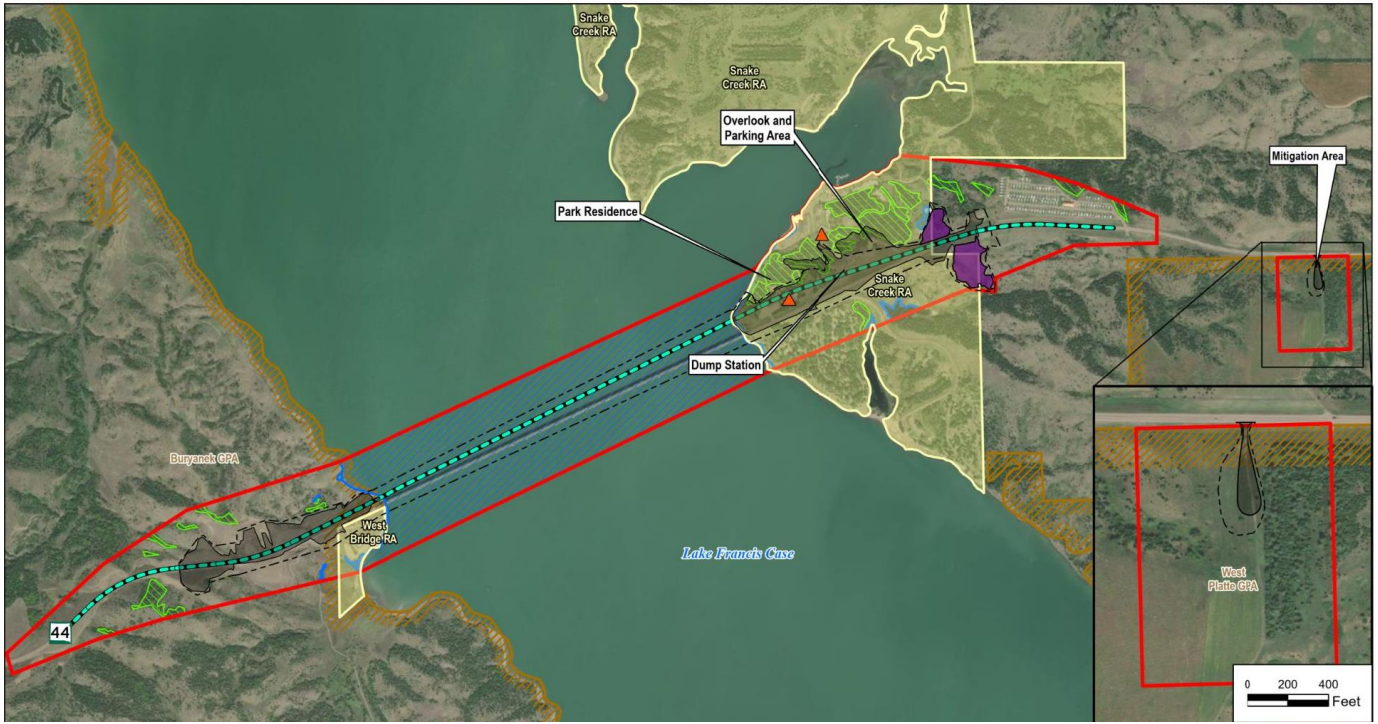


Agency Coordination

- State
  - Department of Transportation
  - Game Fish and Parks
  - Agriculture and Natural Resources
  - State Historical Society
- Federal
  - Federal Highway Administration
  - Army Corps of Engineers
  - Coast Guard
  - Fish and Wildlife Service
- Tribal
  - Cheyenne River Sioux Tribe
  - Lower Brule Sioux Tribe
  - Oglala Sioux Tribe
  - Rosebud Sioux Tribe
  - Sisseton-Wahpeton Oyate
  - Standing Rock Sioux Tribe
  - Yankton Sioux Tribe
  - Three Affiliated Tribes
  - Ponca Tribe of Nebraska
  - Chippewa Cree Tribe

Environmental Impacts

- No Impacts
  - Wetlands
  - Federally Listed Species
  - Farmland
- Impacts
  - Historic Bridge
  - Parkland
  - Dump Station
- Mitigation
  - Historic Bridge
  - Dump Station



Section 4(f) Evaluation

- Historic Resources
  - Significant coordination with SHPO
  - Historic Bridge – Programmatic Bridge
- Parkland Resources
  - Significant coordination with SDGFP
  - West Bridge Recreation Area – *De Minimis*
  - Buryanek Game Production Area – *De Minimis*
  - Snake Creek Recreation Area – *De Minimis*
  - West Platte Game Production Area - Exception
- Avoidance and Mitigation
  - Project's design avoids impacts to sensitive resources such as campground or archeological
  - Dump Station relocation to West Platte Game Production Area a key mitigation measure

De Minimis Impact Finding

Three Criteria Must be Met:

1. Proposed project does not adversely affect the activities, features, or attributes that qualify the resource for protection under Section 4(f)
2. The public has been afforded an opportunity to review and comment on the effects of the project on the protected activities, features, and attributes of the Section 4(f) resource
3. The officials with jurisdiction (SDGFP) over the property are informed of USDOT's intent to make the de minimis impact determination based on their written concurrence that the project will not adversely affect the activities, features, and attributes that qualify the property for protection under Section 4(f)

Completed ✓

Today's Public Meeting ✓

SDGFP Notified of Intent in April 2023

Section 4(f) Evaluation – *De Minimis*

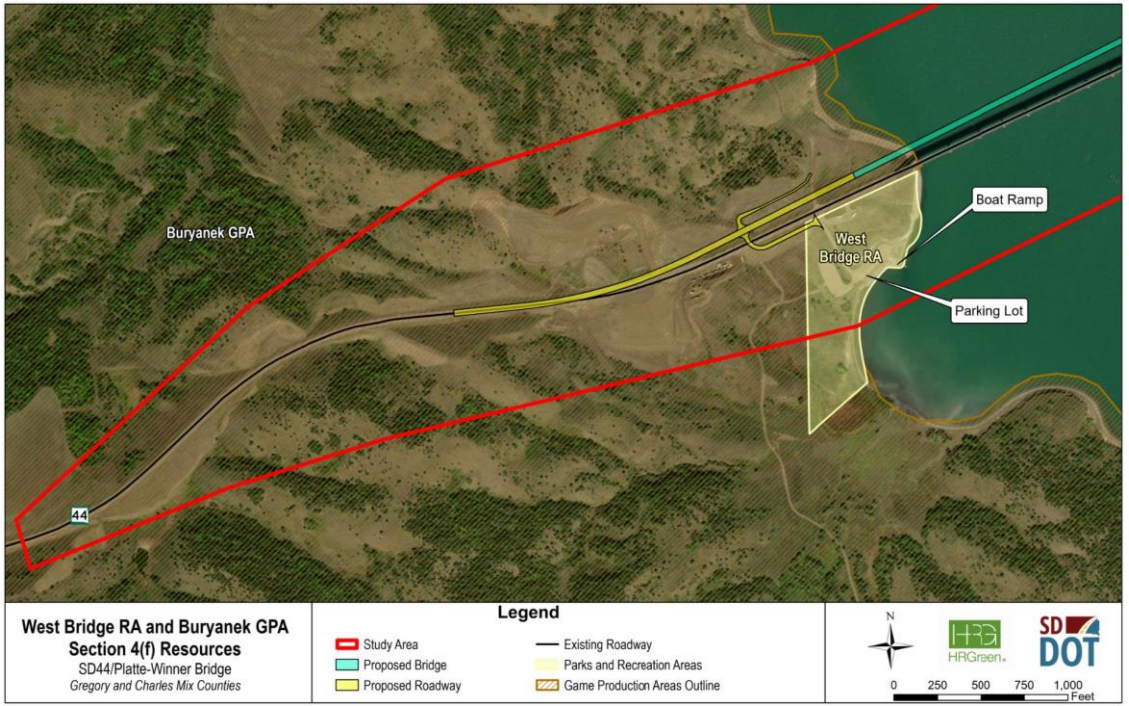
Buryanek Game Production Area

5,577 acres

- Open space for game production, hunting, and recreational use

Impacts

- 1.9 acres of open space temp impact during construction, converted to parkland for net gain
- 2.9 acres converted from roadway to parkland
- Net increase to park
- No permanent adverse impact



Section 4(f) Evaluation – *De Minimis*

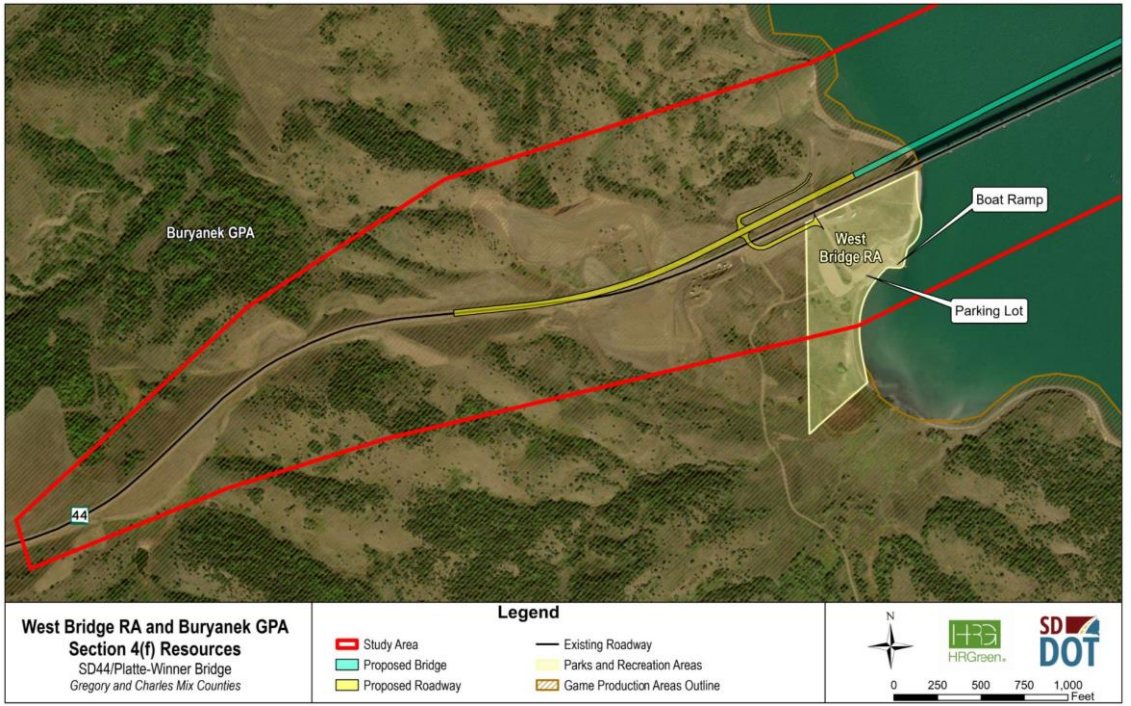
West Bridge Recreation Area

12 acres

- Parking lot
- Boat launch
- Vault toilets with no running water

Impacts

- 1.3 acres of open space temp impacted during construction, converted to parkland for net gain
- Net increase to park
- No permanent adverse impacts



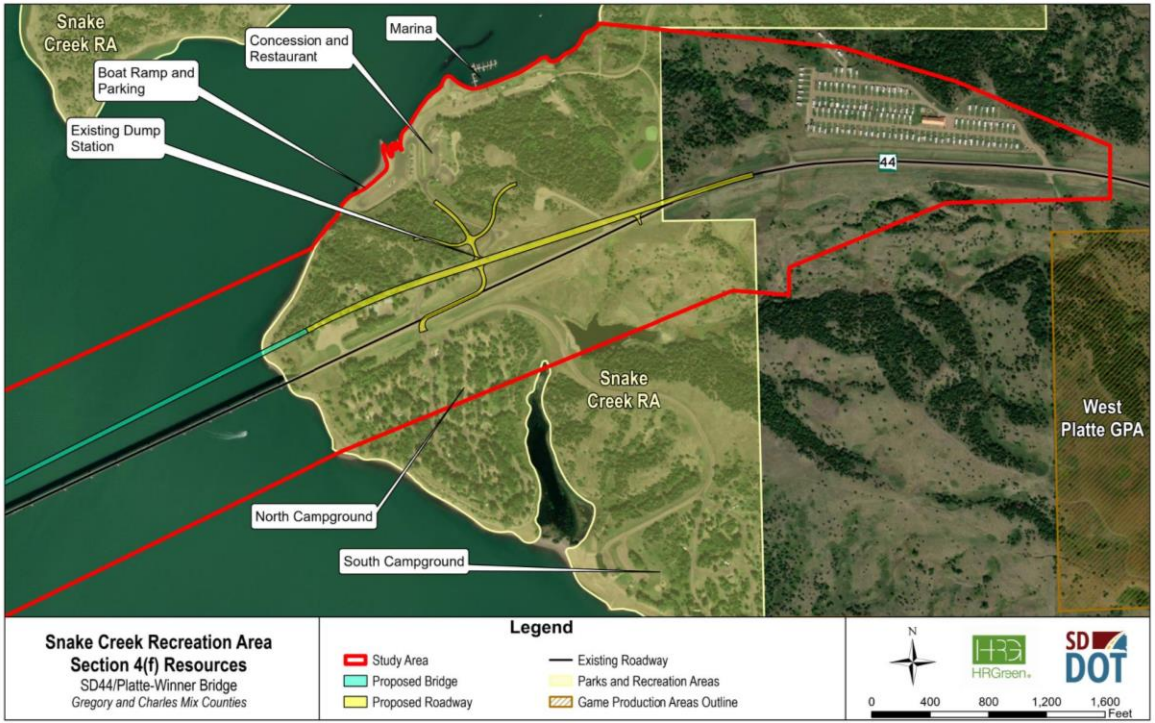
Section 4(f) Evaluation – *De Minimis*

Snake Creek Recreation Area

695 acres

Features, Attributes, Activities
- Campgrounds
- Welcome center
- Fish cleaning station
- Concessions and restaurant
- Boat launch and parking lot
- Sanitary dump/ potable water station

Impacts
- 8.6 acres of open space temp impacted during construction, converted to parkland
- Net increase to park
- 1.0 acre dump/water station – mitigated by relocation prior to construction of bridge
- Park will remain open during construction



Section 4(f) Evaluation – Exception

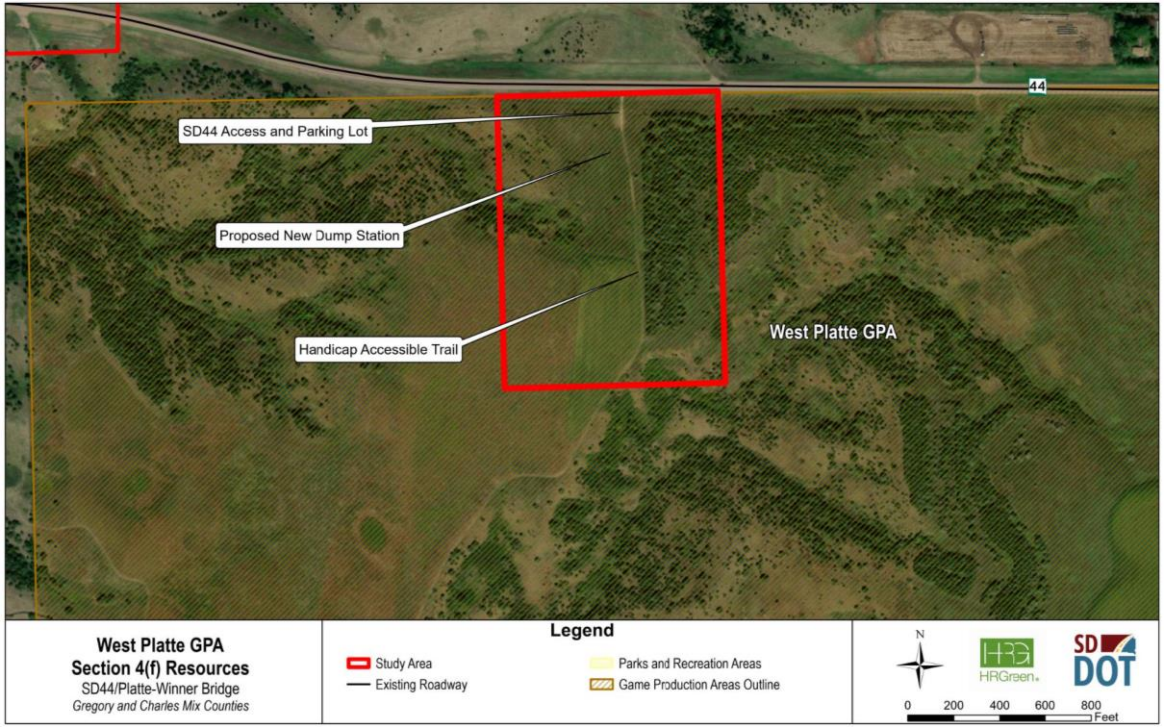
West Platte Game Production Area

825 acres

- Open space for game production, hunting, and recreational use
- SD44 Access and parking lot
- Handicap accessible trail

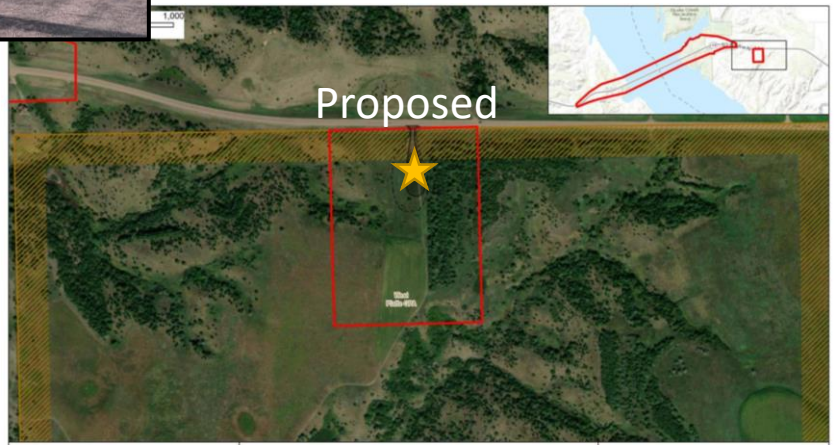
Impacts

- 1.0 acre enhancement with relocation of dump/water station
- Enhancement to access and parking lot
- Received Section 4(f) Exception (23 CFR 774.13(g)) per FHWA/ USDOT

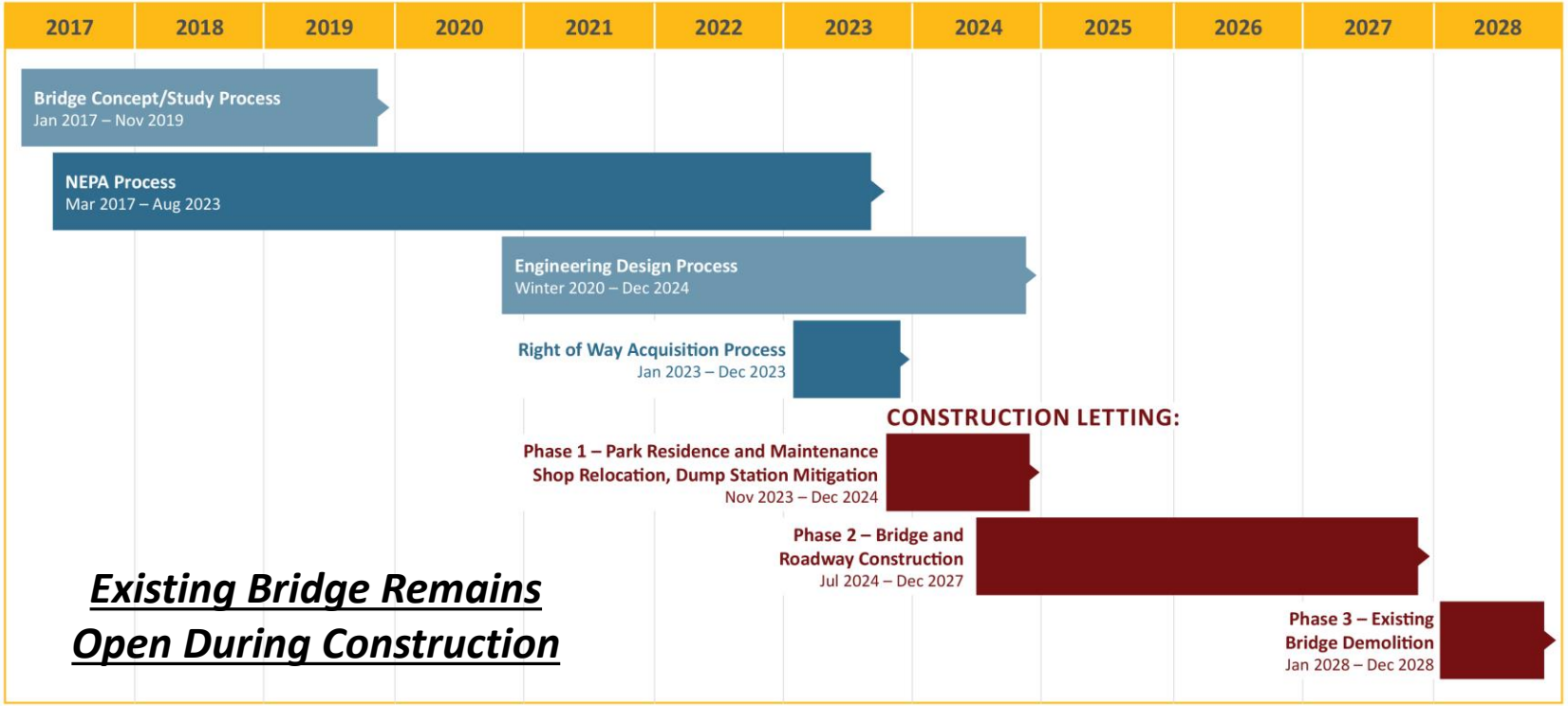


Dump Station Impact and Mitigation

Relocate 1.4 Miles East of Current Location



Schedule / Sequencing



Project Costs (Approximate)

Programmed in Tentative State Transportation Improvement Plan (STIP)

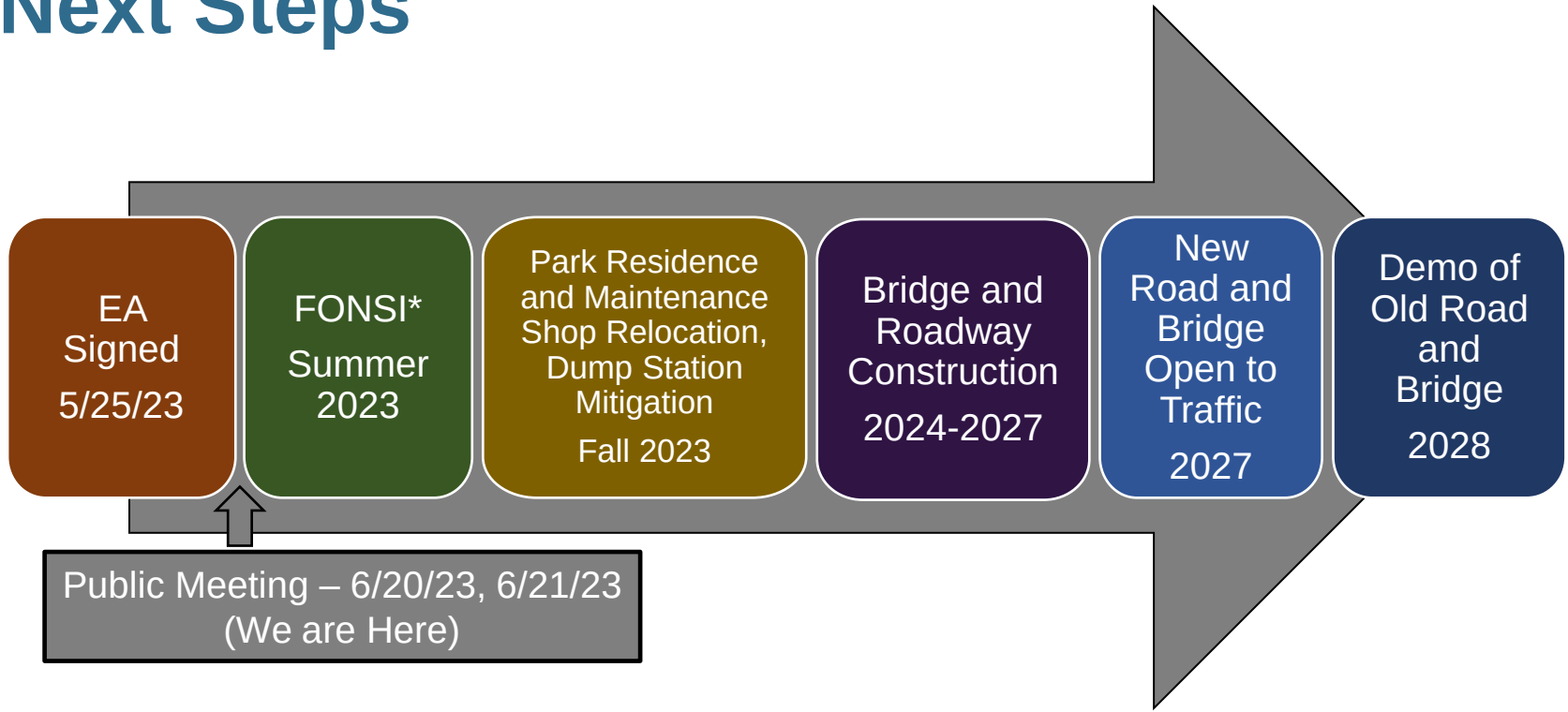
$1.4 Million – Phase 1

Park Residence and Maintenance Shop Relocation, Dump Station Mitigation

$240 Million – Phases 2 and 3

Bridge and Roadway Construction, Existing Bridge Demolition

Next Steps

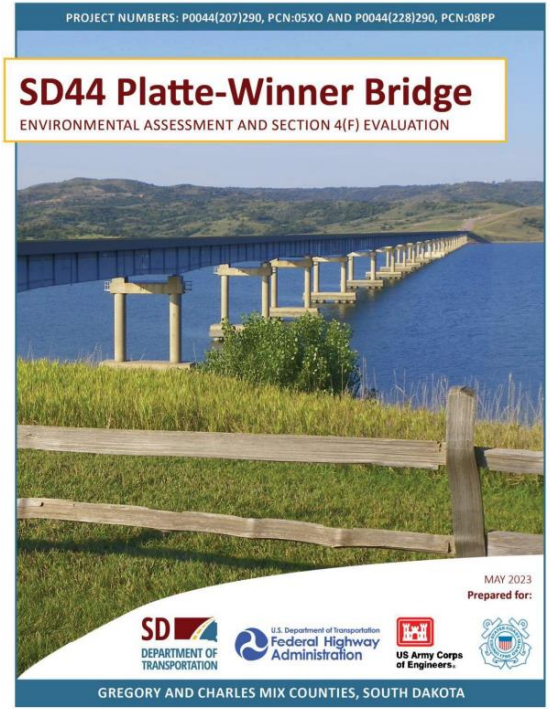


* FONSI – *Finding of No Significant Impact*

Environmental Assessment and Section 4(f) Evaluation

- Assessment of project impacts on environment and Section 4(f) properties
- Signed on May 25, 2023
- Available for comment
- Comment Period ends July 7, 2023

www.sd44bridge.com/documents/



Public Comment

Comments due July 7, 2023

Online:

https://sd44bridge.com/comments/

By Email:

Tim Thoreen, tthoreen@hrgreen.com or Steve Gramm, steve.gramm@state.sd.us

By Mail:

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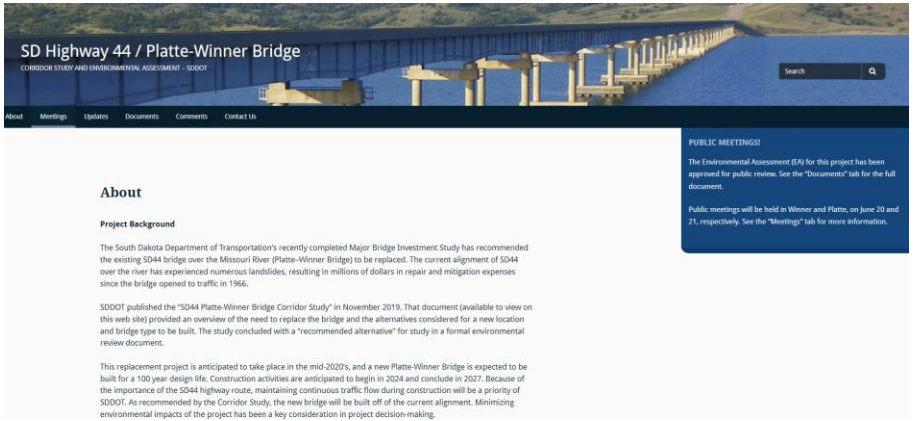
St. Paul, MN 55114

Steve Gramm, Project Manager
SDDOT Central Office – Project Development
700 E Broadway Ave
Pierre, SD 57501

For More Information

Visit - www.sd44bridge.com/



Project Contacts

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