



West Fargo Main Avenue Slide Repair

8-010(047)934
PCN 23288

Public Input Meeting
January 10, 2023

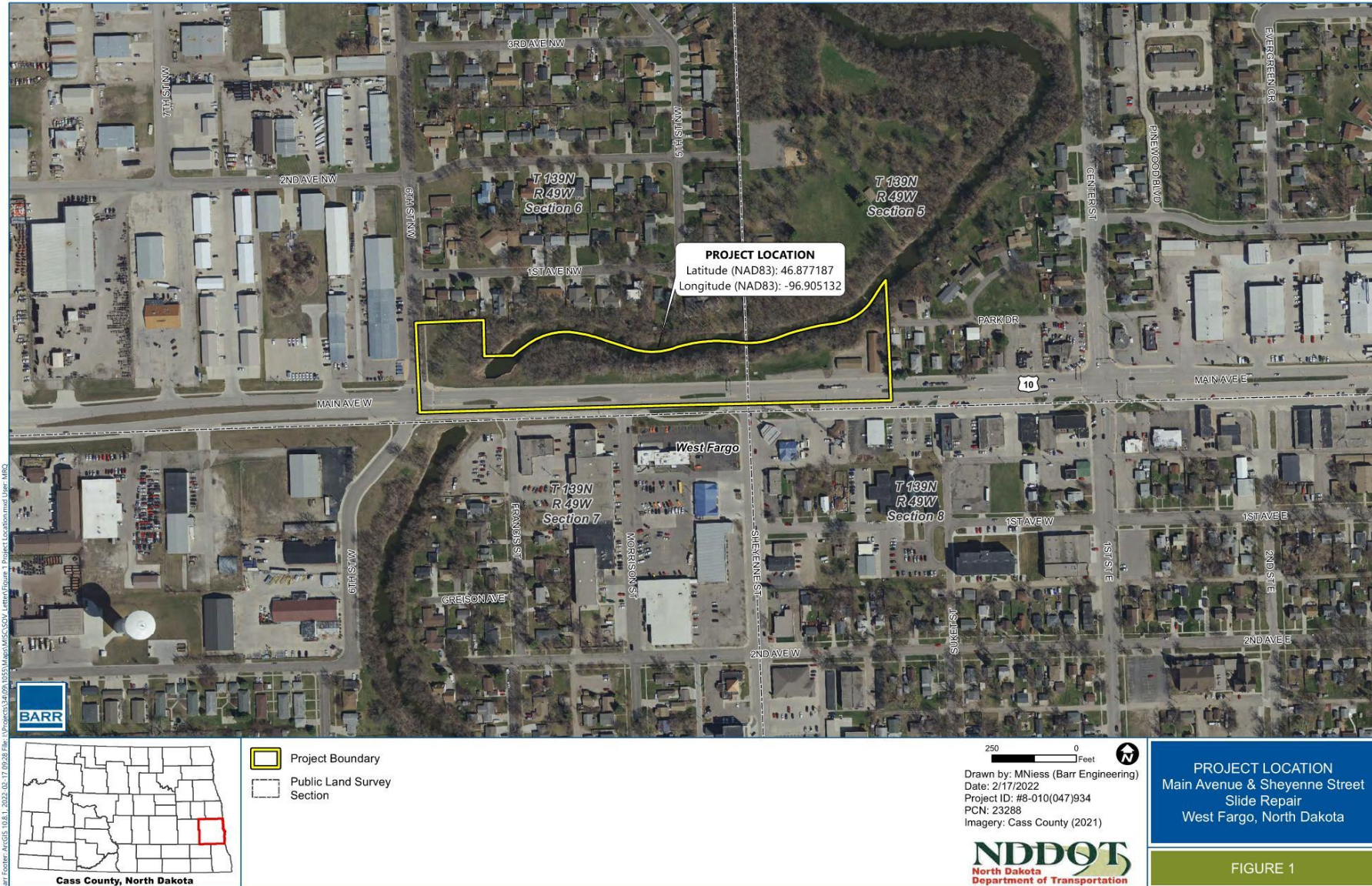
NORTH
Dakota | Transportation
Be Legendary.



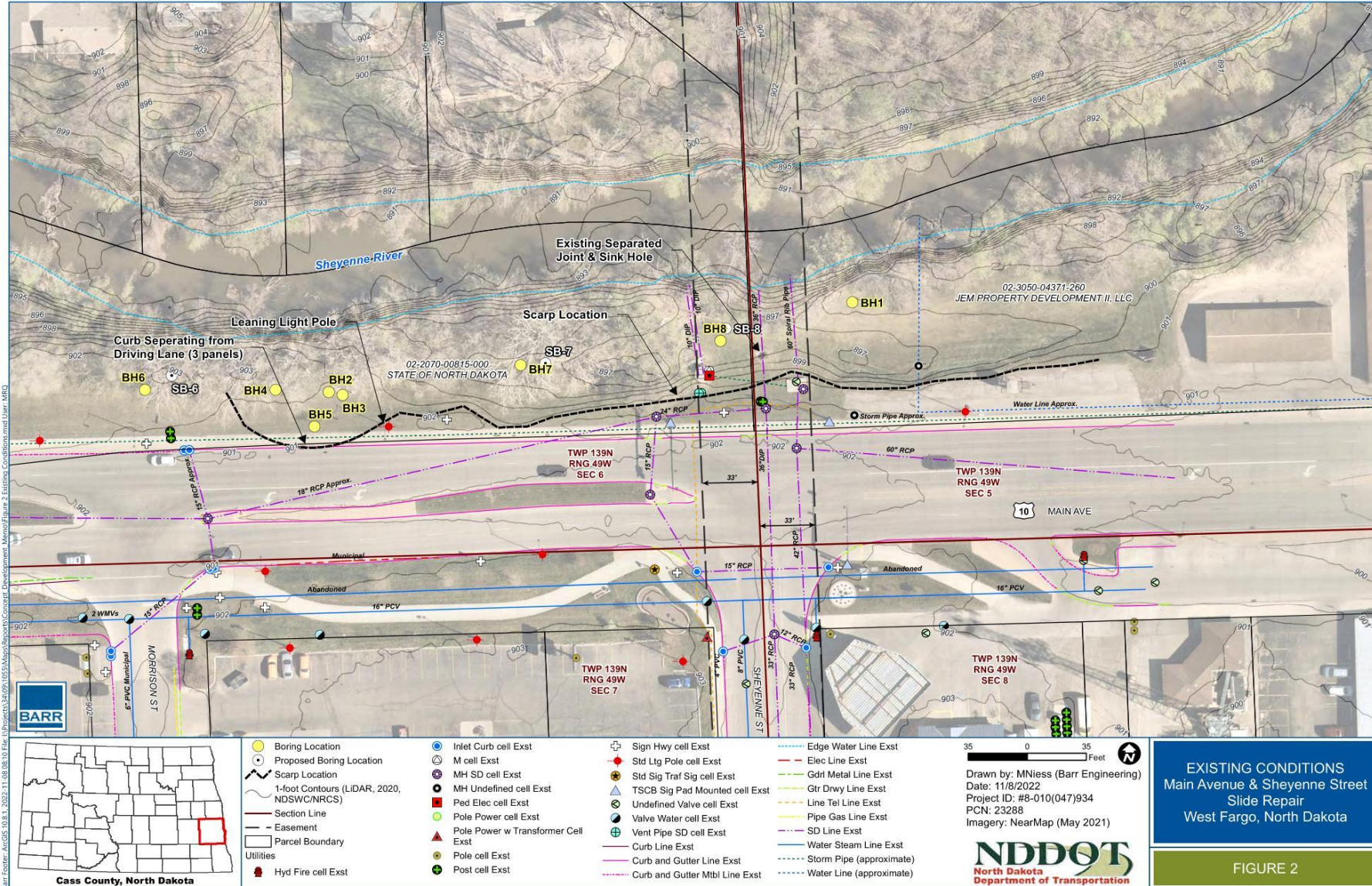
Agenda

- Project Background/Existing Conditions
- Purpose and Need
- Work Completed to Date
- Description of Design Concept
- Traffic Control
- Right-of-Way
- Estimated Project Cost and Project Funding
- Tentative Project Schedule
- Other Alternatives Considered
- Public Comment Process
- Question and Answer

Project Location



Existing Site Layout



Existing Site – Photographs



Upper Scarp

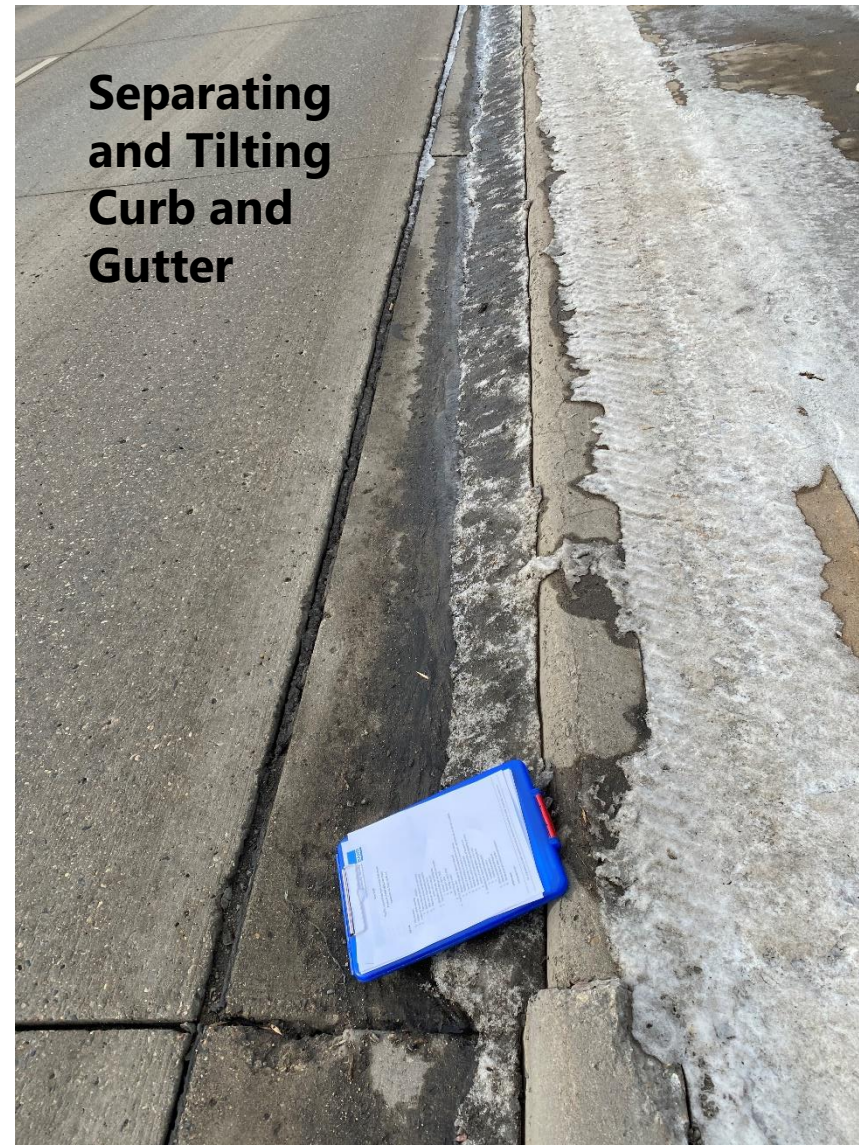


Damaged Sidewalk and Curb and Gutter

Existing Site – Photographs



**Sinkhole and
Upper Scarp**



**Separating
and Tilting
Curb and
Gutter**

Purpose of Project

- Mitigate instability from landslide activity on the north side of Main Avenue
- Repair damage that has occurred to the roadway, sidewalk, and utilities
- Protect NDDOT and City of West Fargo assets from future damage due to instability

Need for Project

- History of instability at the site
 - Movement observed via historical aerial imagery since at least 2002
 - 2008 NDDOT memo
 - Now beginning to impact roadway
- **Provide a long-term solution to maintain safe, efficient travel on US Highway 10**
- Prevent future damage to NDDOT and West Fargo utilities

Work Completed to Date

- Field Investigations
 - Topographic and Bathymetric Survey
 - Geotechnical Investigation
 - Wetland Delineation
 - Cultural Resources Survey
 - Pipe Televising
- River Hydraulic Evaluation
- Geotechnical Modeling/Design
- Development of Repair Concept
- Environmental Justice Analysis

Geotechnical Evaluation: FLAC Analysis with Piles

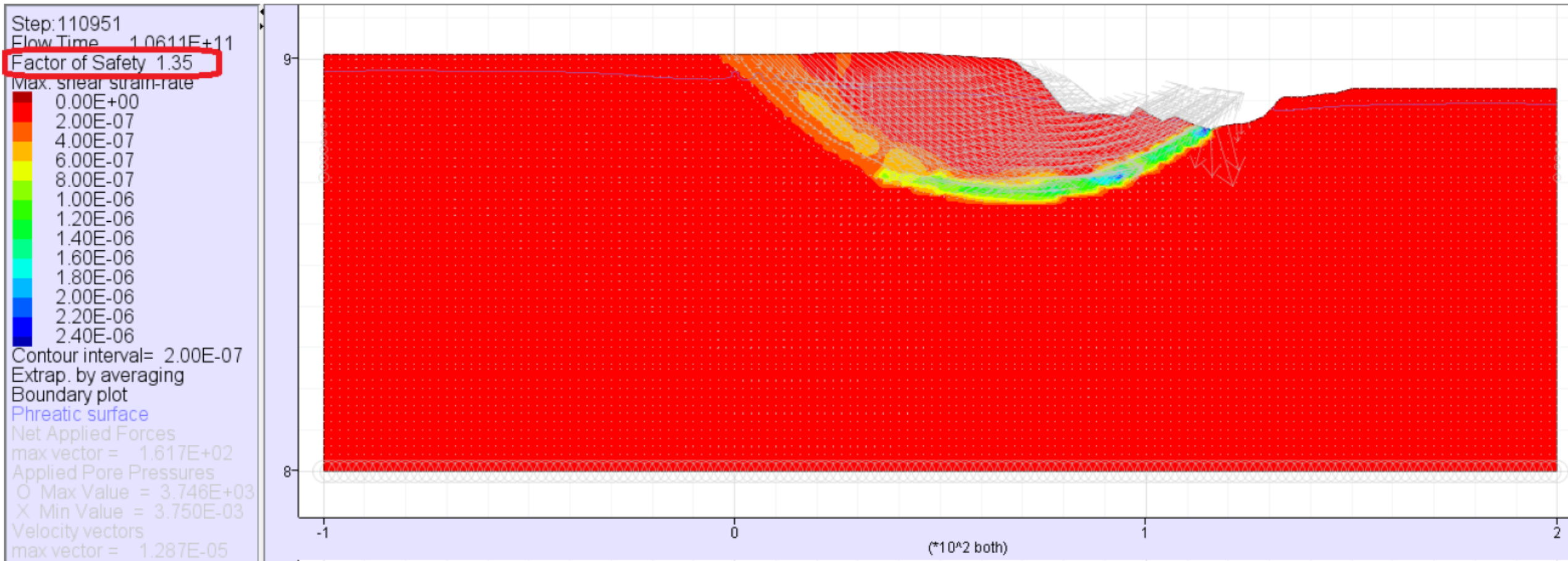
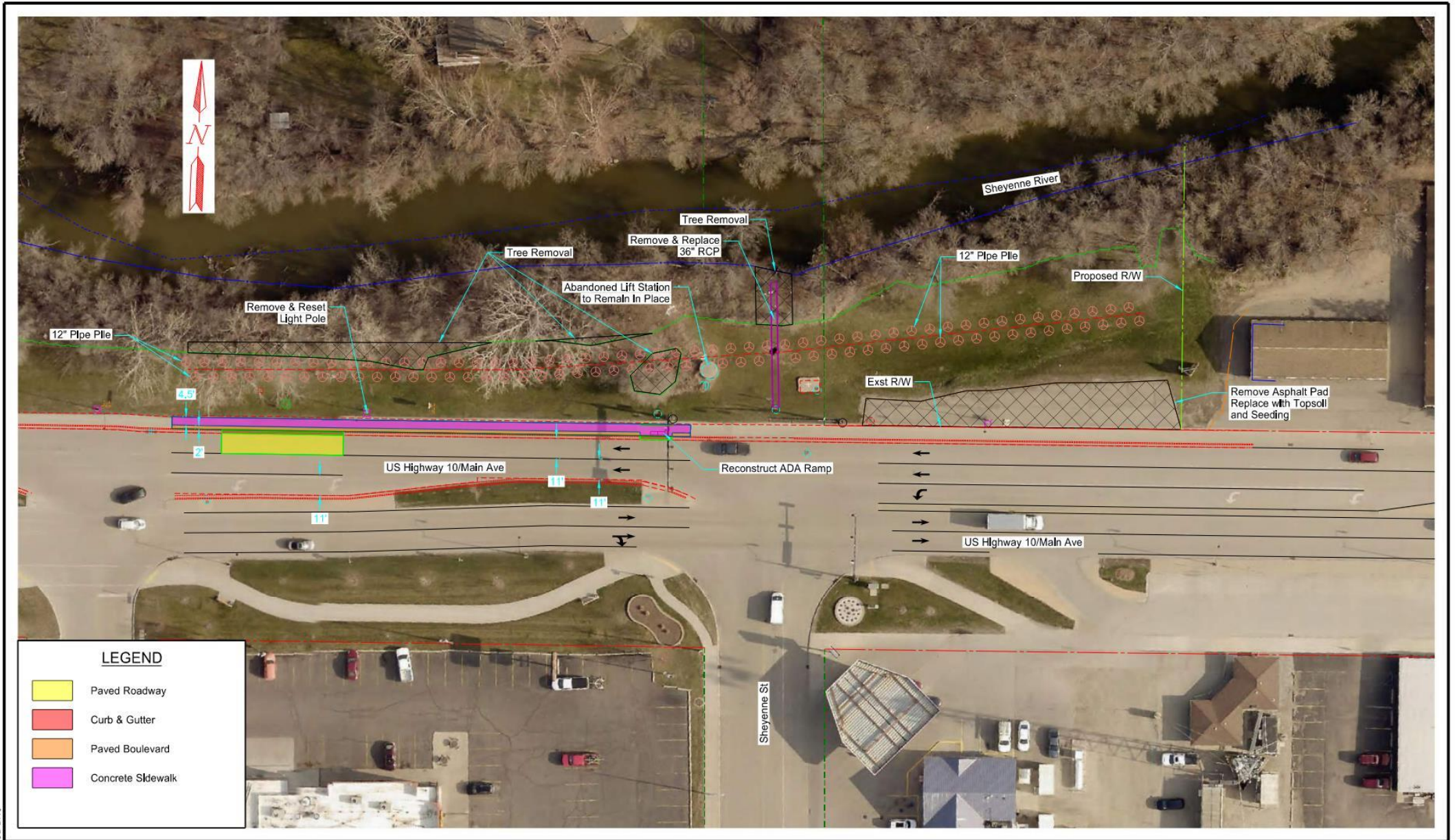
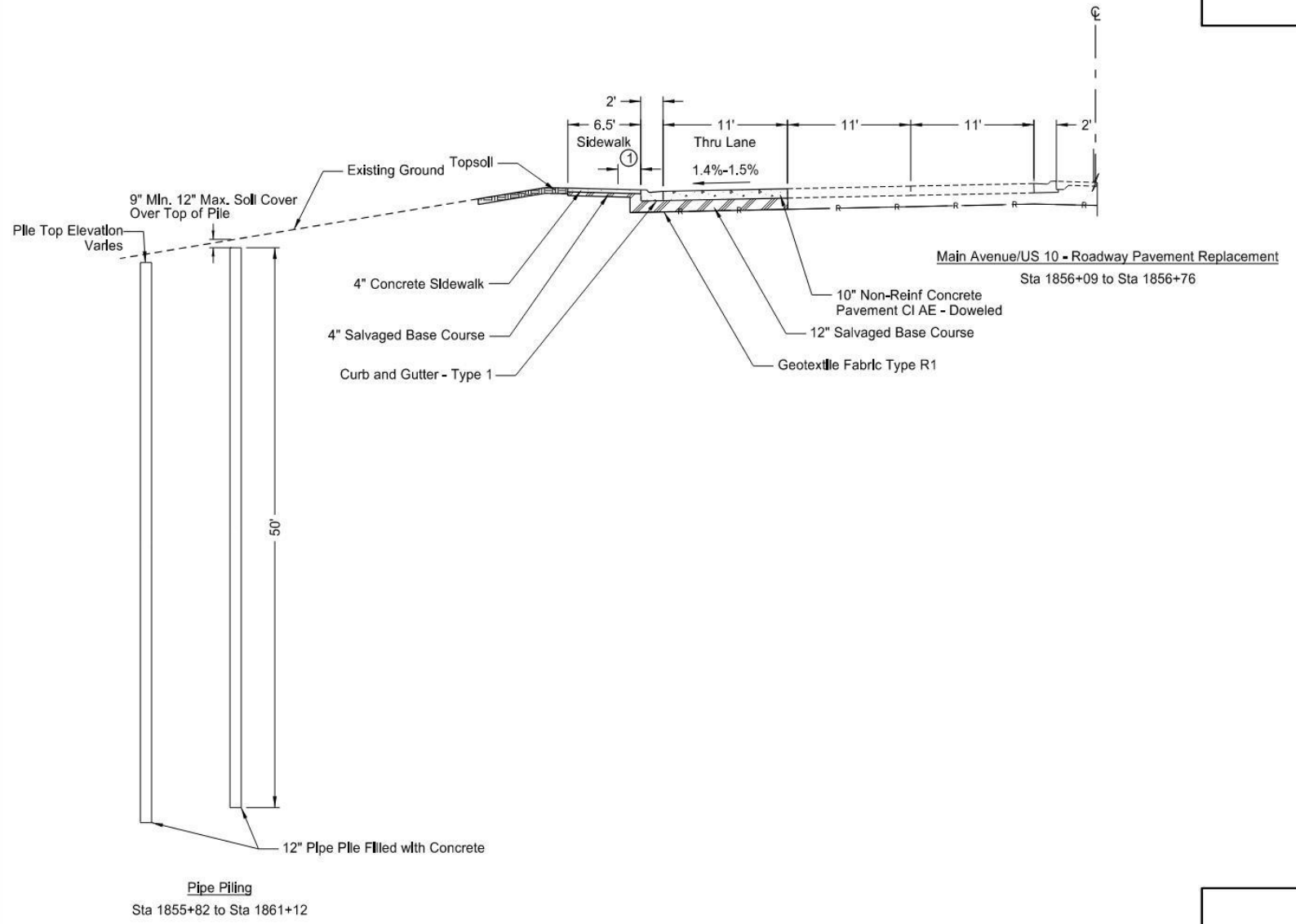


Figure 2 FoS plot for FLAC model with slightly more strengthened zones



SDGNS

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-8-010(047)934	30	3



Notes:
 ① 2' Pigmented Imprinted Concrete. Slope varies to accommodate ADA compliance.

Proposed Typicals US Highway 10/Main Avenue West Fargo Main Avenue Slide Repair	This document is preliminary and not for construction or implementation purposes.
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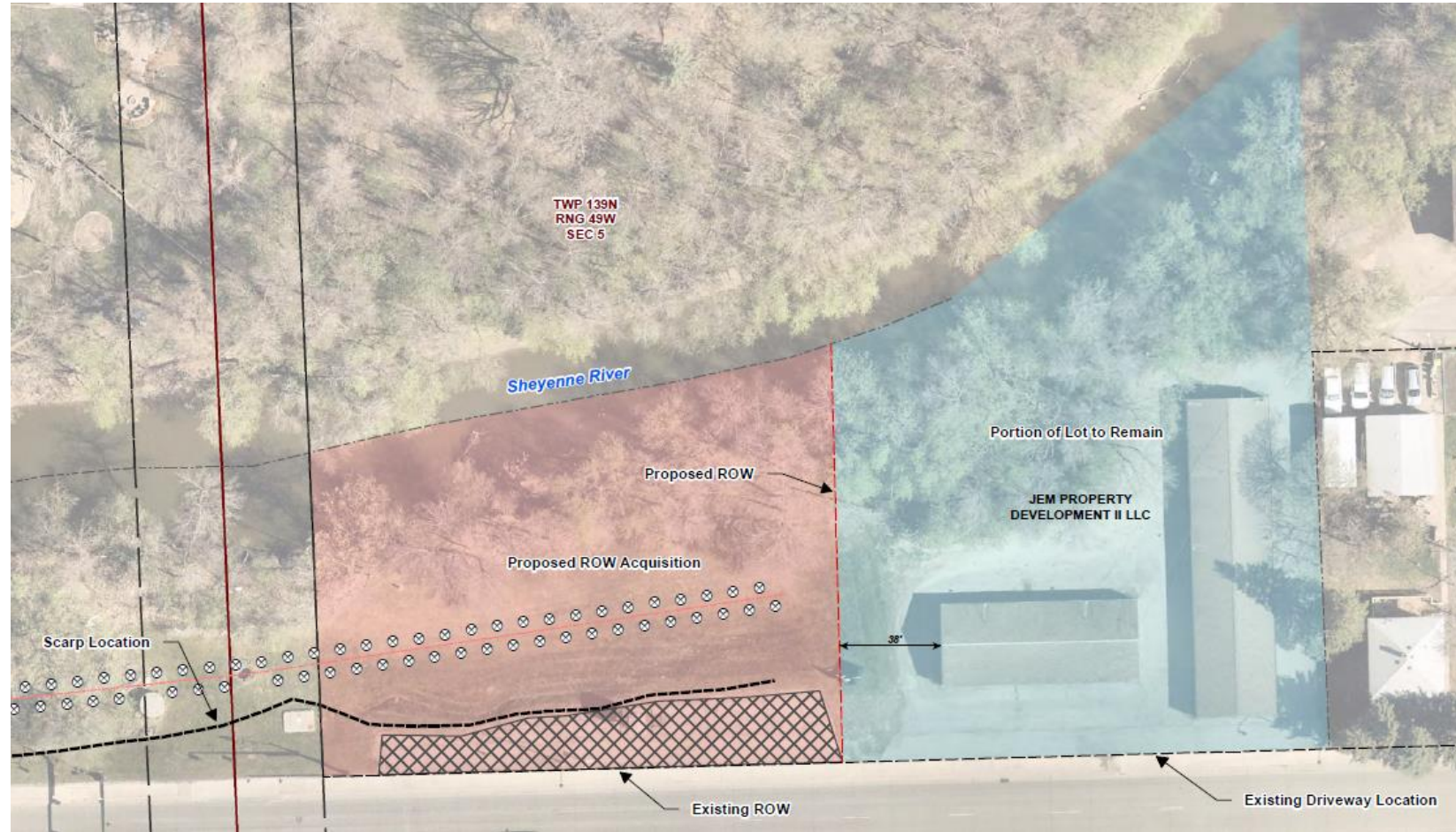
Traffic Control

- Temporary single lane closure – westbound right lane
- Temporary pedestrian detour to south side of Main Ave



Right-of-Way

- JEM Property Development II, LLC
- Operated as West Fargo Self Storage
- No buildings on portion proposed for acquisition



Estimated Project Cost and Funding Sources

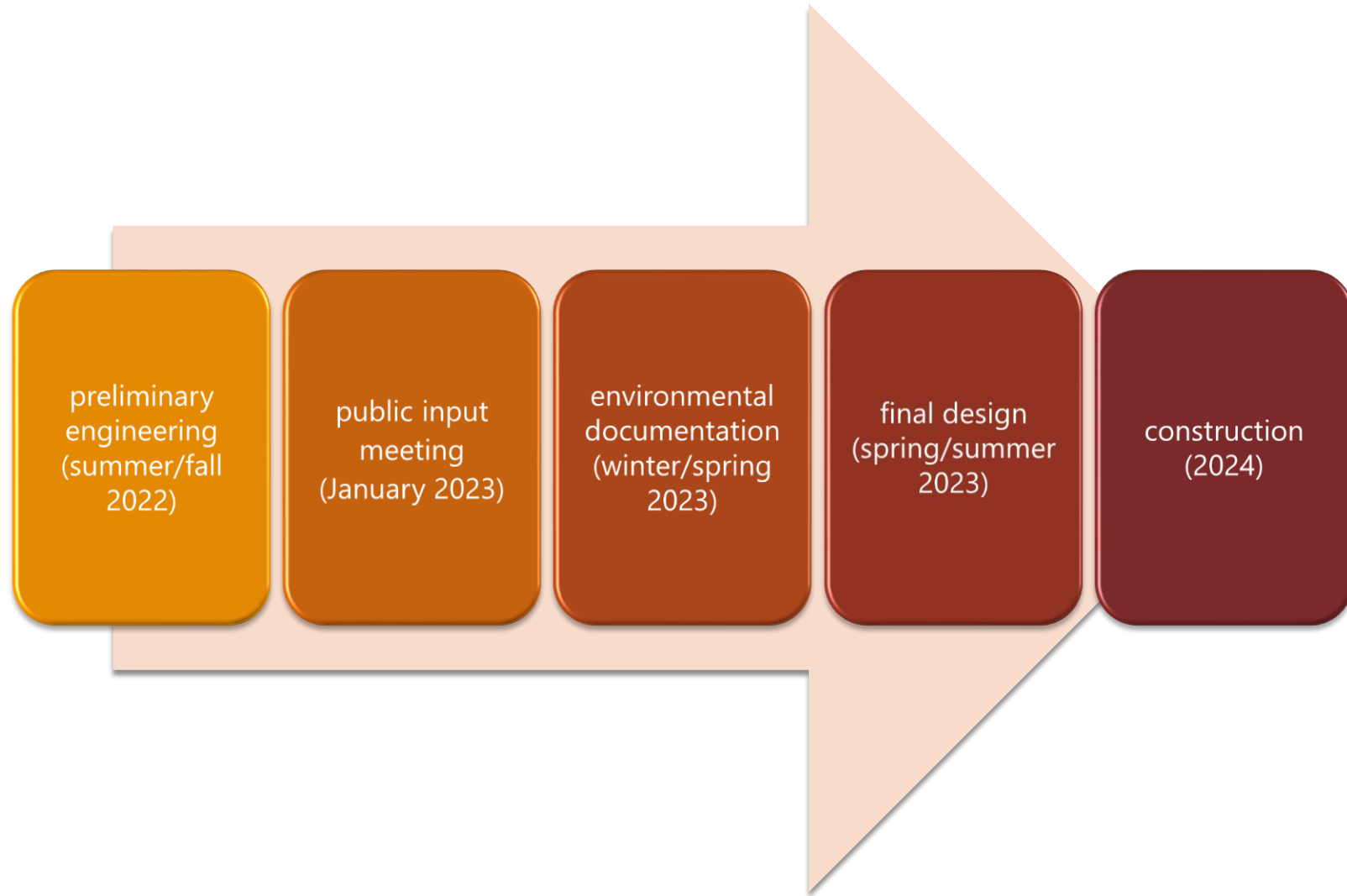
Total Estimated Project Cost: **\$2.0 million**



Funding Sources:

- Federal - 80.93%
- State - 9.07%
- City - 10.00%

Tentative Project Schedule



Benefits of Proposed Design Concept

- Benefits
 - Cost effectively stabilizes slope
 - Minimizes river impact (small temporary impact for storm sewer repair)
 - Minimizes tree removal
 - Aesthetic (below grade)
 - Minimizes operation and maintenance

Other Alternatives Considered

- Regrade to a Stable Slope
- Soldier Pile Wall
- Drilled Concrete Shafts
- Retaining Walls



Public Comments

Please take a comment card and return any comments you have to the comment box.

Or mail or email comments on the Project by January 25, 2023:

Matt Peterson
Barr Engineering Co.
4300 MarketPointe Drive
Suite 200
Minneapolis, MN 55435

Email: mpeterson@barr.com
Subject Line: Public Input Meeting



resourceful. naturally.
engineering and environmental consultants



West Fargo Main Avenue Slide Repair



Public Input Meeting



Project 8-010(047)934, PCN 23288

Tuesday January 10th, 2023 | 5:30-7:30 PM

Hulbert Aquatic Center, 620 7th Avenue East, West Fargo

Comments:

Multiple horizontal lines for writing comments.

Please return comments at the end of the meeting or send by January 25th, 2023 to:

Matt Peterson
Barr Engineering Co.
4300 MarketPointe Dr, Suite 200
Minneapolis, MN 55435

Your Contact Information:

Name: _____
Email: _____
Phone Number: _____

Or
Email: mpeterson@barr.com

Q & A

- Sign-in sheet
- Title VI Public Participation Survey

