



MREFP Flood Control Meeting with Senator Hoeven

Wednesday, February 21, 2024, at 1:00 PM

City Council Chambers, City Hall (10 3rd Ave SW)

Any person needing special accommodation for the meeting is requested to notify the City Clerk's office at 857-4752.

A quorum of the City Council is expected to attend a MREFP Flood Control Meeting with Senator Hoeven. The event begins at 1:00 PM and does not include a formal agenda.

1. DOCUMENTS PRESENTED AT MEETING

Documents:

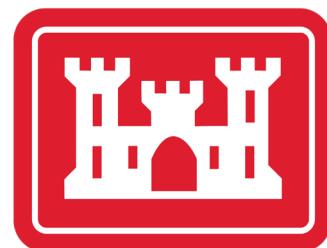
[MREFP POWERPOINT.PDF](#)  
[HANDOUT.PDF](#)



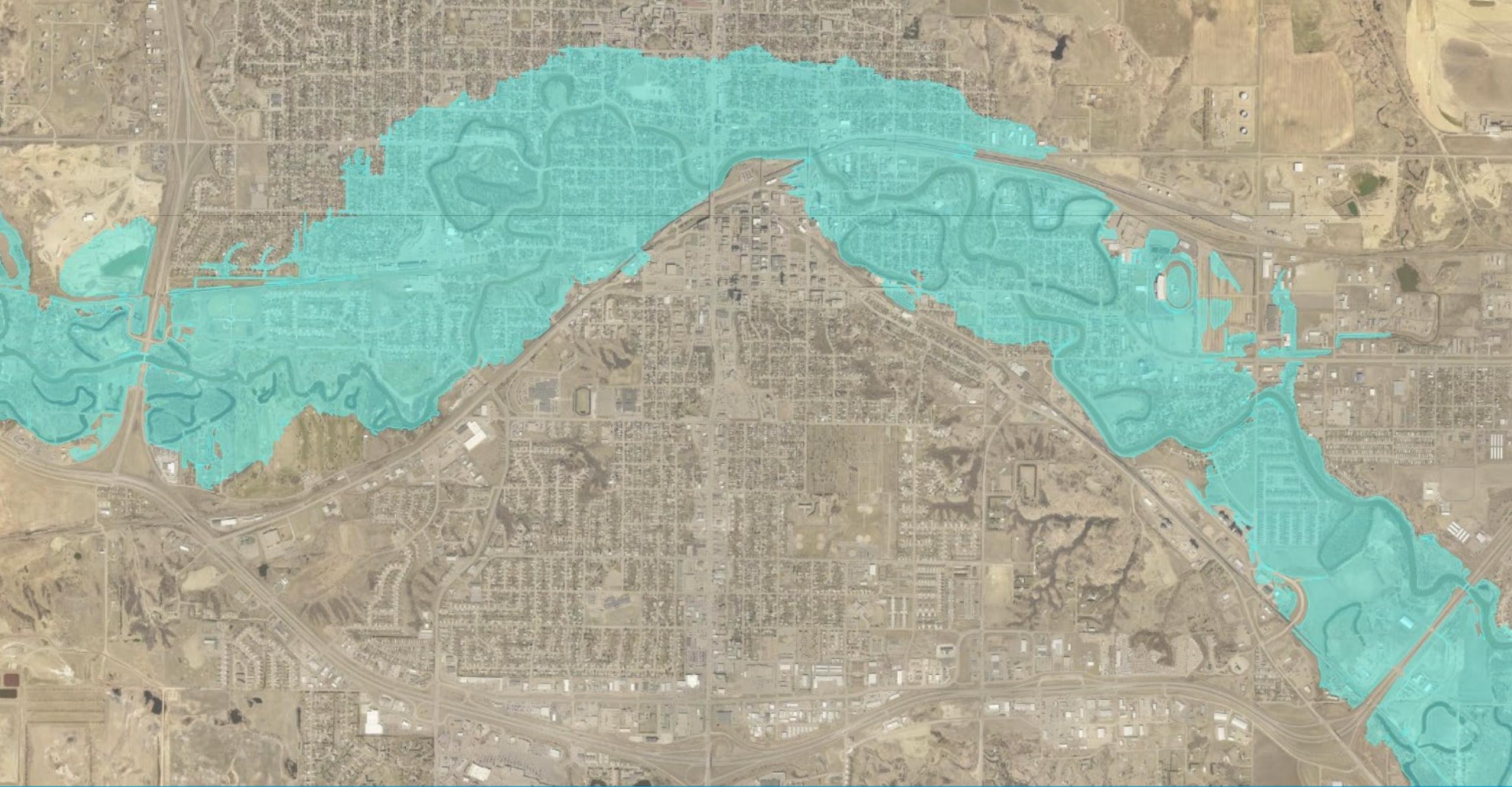
# MOUSE RIVER PLAN

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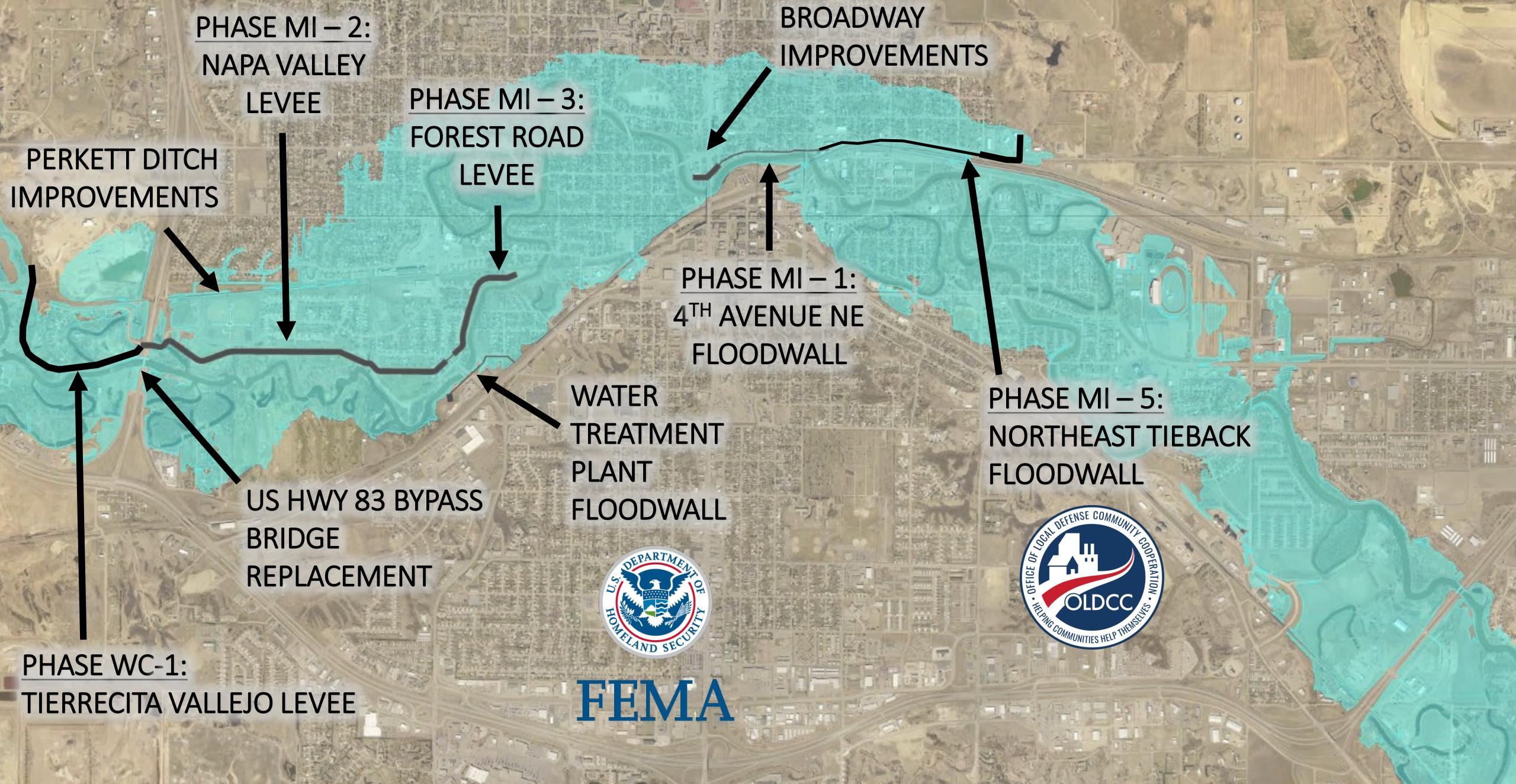
BRIEFING TO  
US SENATOR JOHN HOEVEN  
21 FEBRUARY 2024



**SRJB**  
SOURIS RIVER JOINT BOARD



Future FEMA Regulatory Floodplain



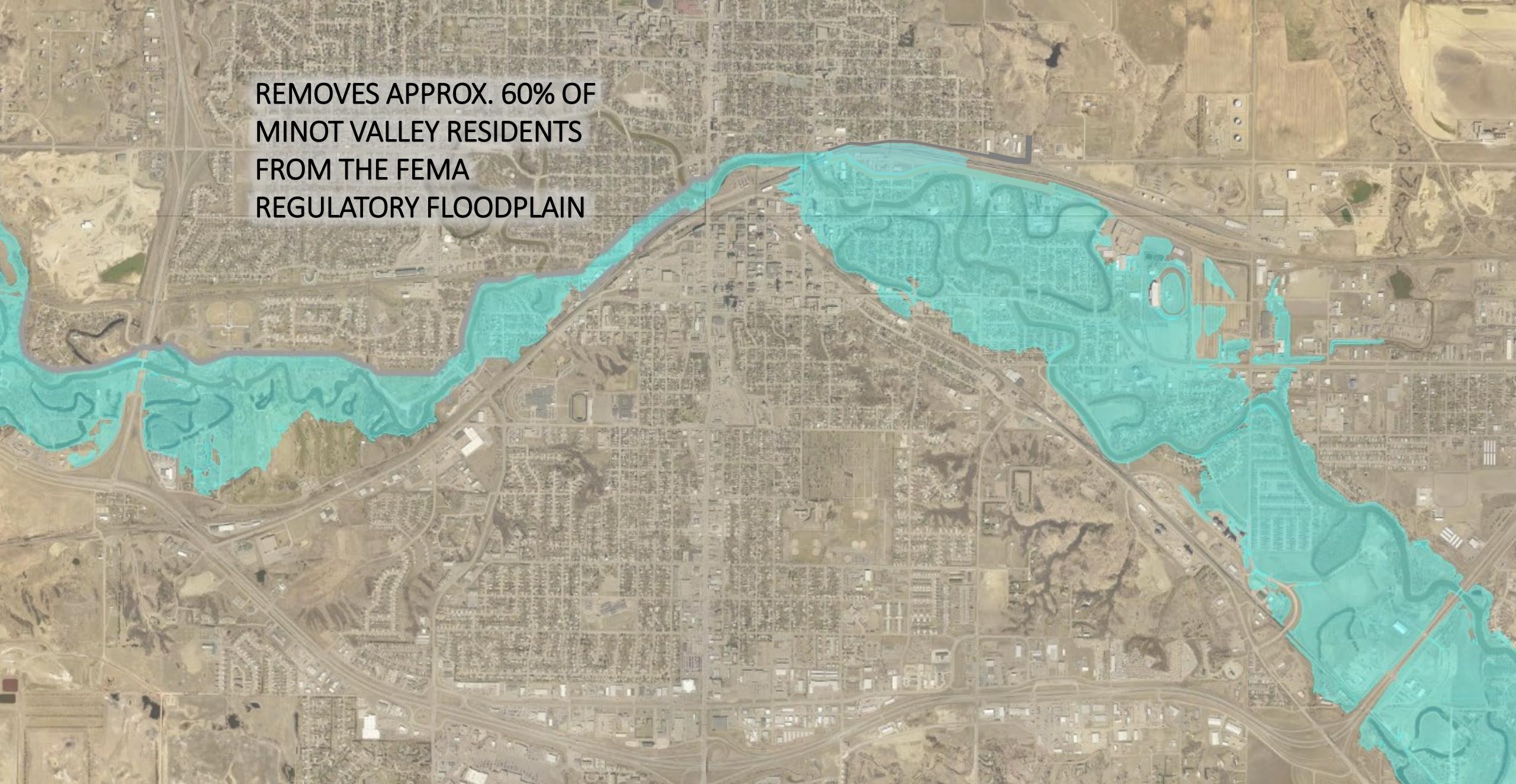
Minot Milestone 1 - Phases Complete or in Construction



**PHASE MI – 4:  
MAPLE DIVERSION  
(\$100 M)  
~50% DESIGNED**

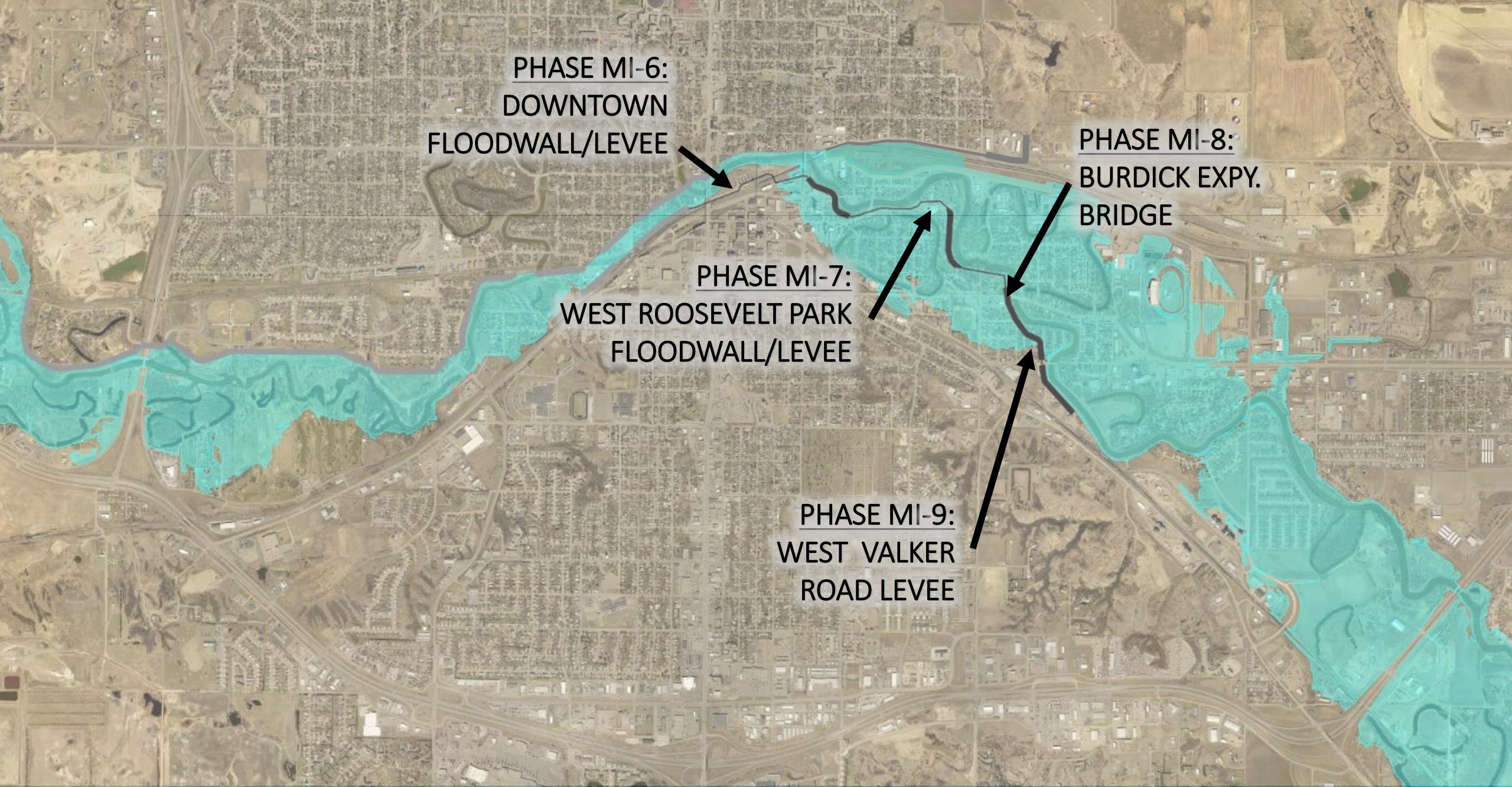
- AGREEMENTS IN PRINCIPLE WITH BNSF, CPKC AND AMTRAK RAILROADS (FINAL AGREEMENT REVIEWS UNDERWAY)
- DESIGN COMPLETE BY LATE 2025
- CONSTRUCTION START 2026

Minot Milestone 1 – Current Design Focus



REMOTES APPROX. 60% OF  
MINOT VALLEY RESIDENTS  
FROM THE FEMA  
REGULATORY FLOODPLAIN

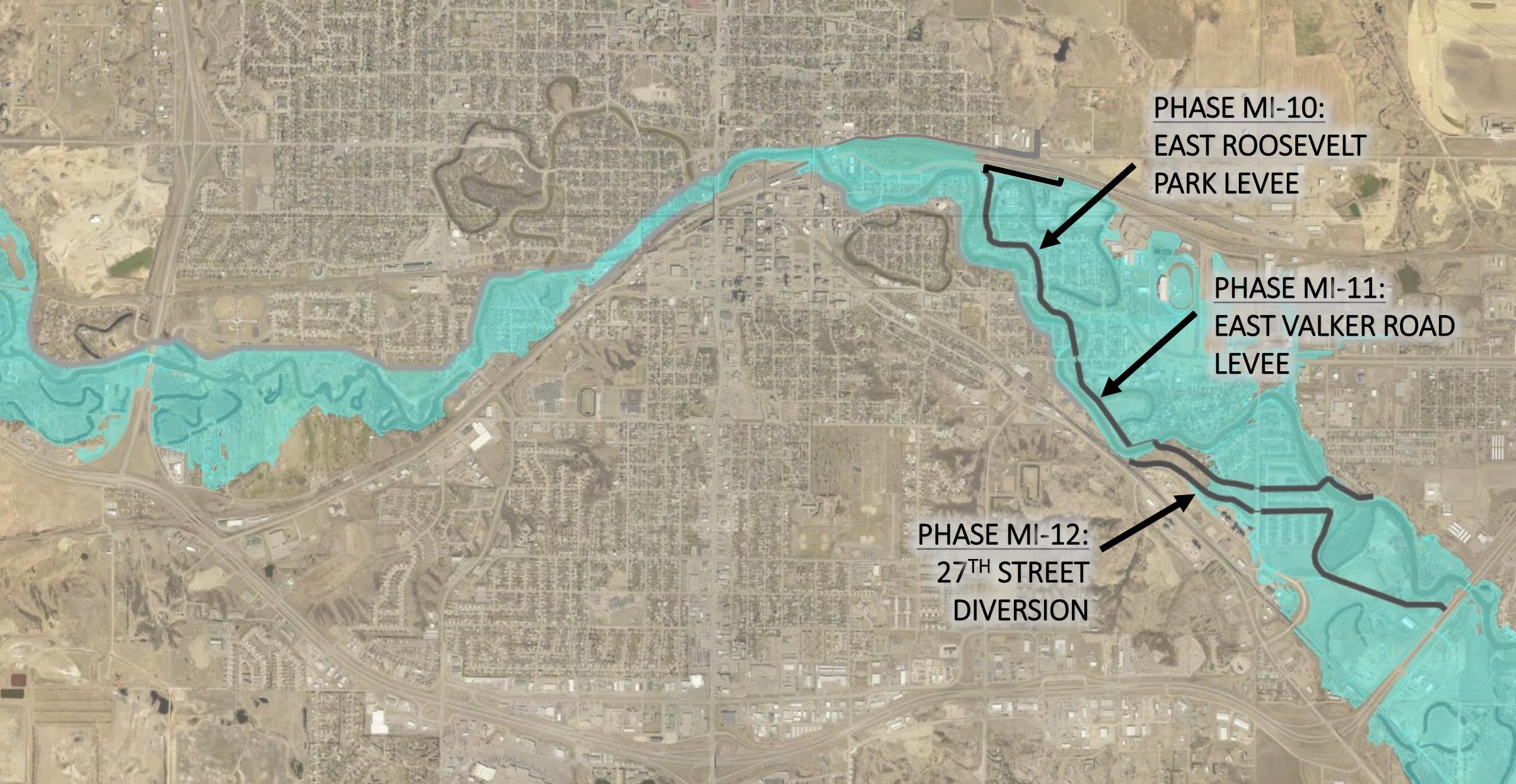
Interim Regulatory Floodplain Following Milestone 1



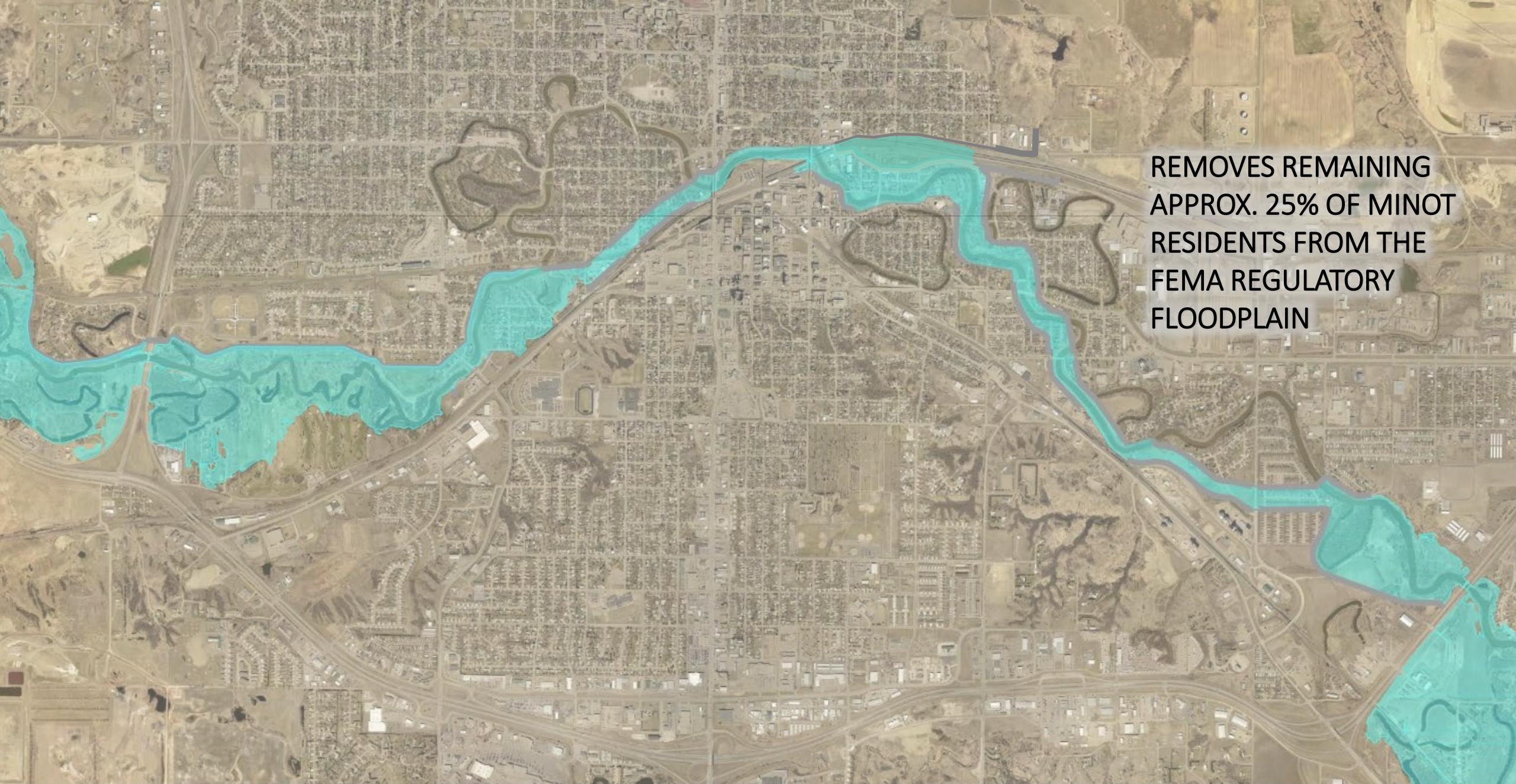


REMOTES AN ADDITIONAL APPROX. 15% OF MINOT VALLEY RESIDENTS FROM THE FEMA REGULATORY FLOODPLAIN

Interim Regulatory Floodplain Following Milestone 2



Minot Milestone 3



Regulatory Floodplain Following Milestone 3

# Projected FEMA Floodplain



## Minot Milestone 1

Phase	Approx. Cost (Million \$)
MI-1: 4th Avenue Floodwall	\$45
MI-2: Napa Valley Levee	\$28
MI-3: Forest Road Levee	\$8
MI-4: Maple Diversion	\$100
MI-5: Northeast Tieback Levee	\$70
WC-1: Tierrecita Vallejo Levee	\$25
<b>Subtotal</b>	<b>\$276</b>



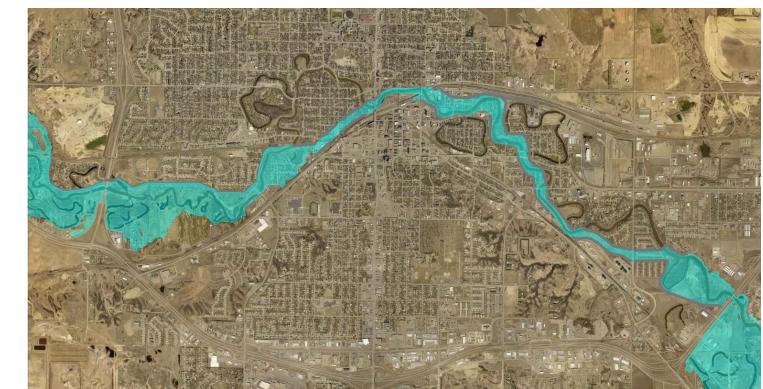
## Minot Milestone 2

Phase	Approx. Cost (Million \$)
MI-6: Downtown Levee / Floodwall	\$55
MI-7: West Roosevelt Park Levee / Floodwall	\$45
MI-8: Burdick Expressway Bridge	\$15
MI-9: West Valker Road Levee	\$15
<b>Subtotal</b>	<b>\$130</b>

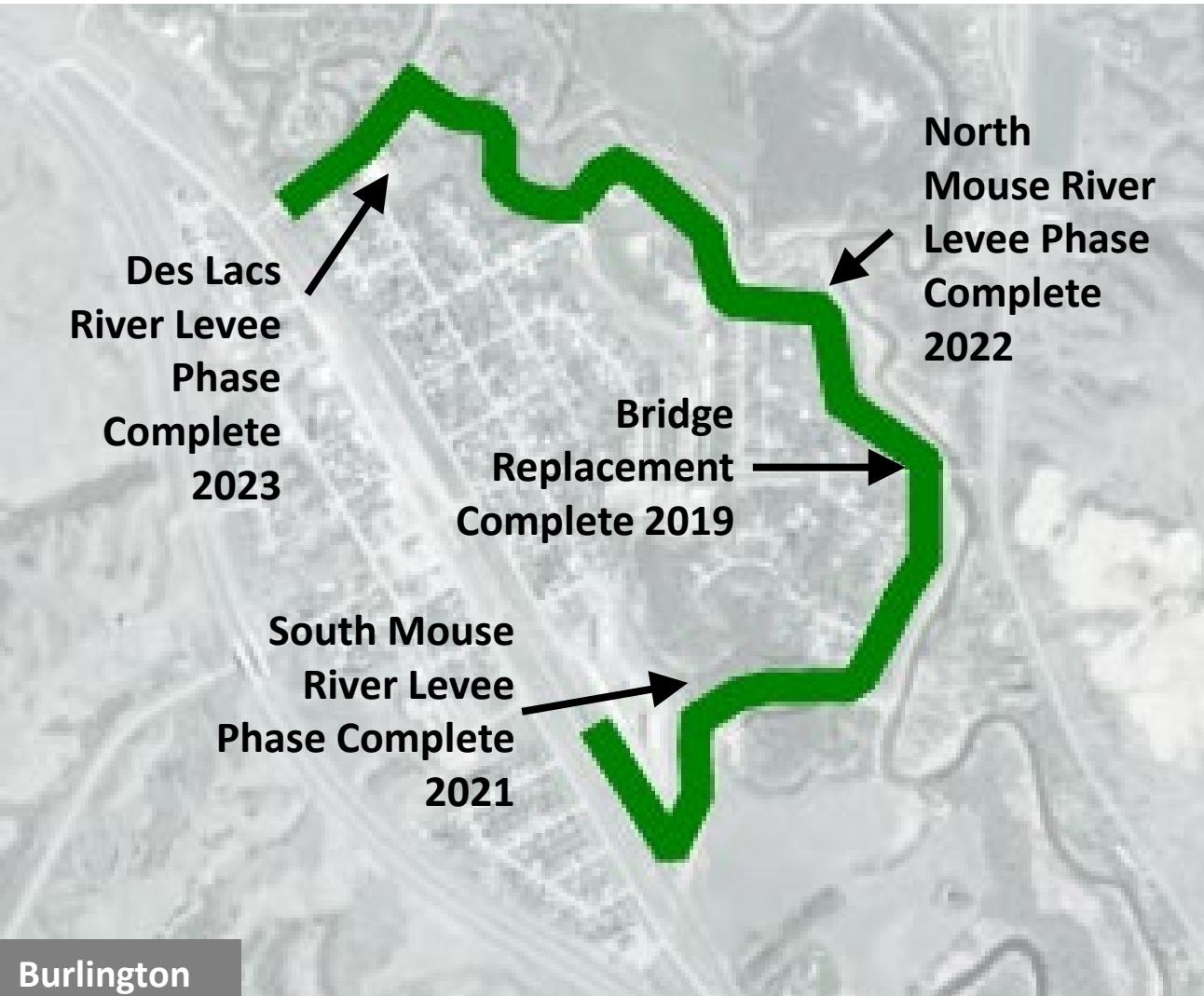


## Minot Milestone 3

Phase	Approx. Cost (Million \$)
MI-10: East Roosevelt Park Levee	\$45
MI-11: East Valker Road Levee	\$45
MI-12: 27th Street Diversion	\$140
<b>Subtotal</b>	<b>\$230</b>



# Progress in Rural Portions of the Mouse River Valley



## Construction Funding Status:

 Fully Funded

Construction of all Burlington phases of the project will be complete by 2023.

# Basin-Wide Project

Parallel efforts are occurring to reduce flood risk throughout the basin in North Dakota

- Minot
- Smaller cities (Burlington, Sawyer, Velva)
- Rural subdivisions and residents

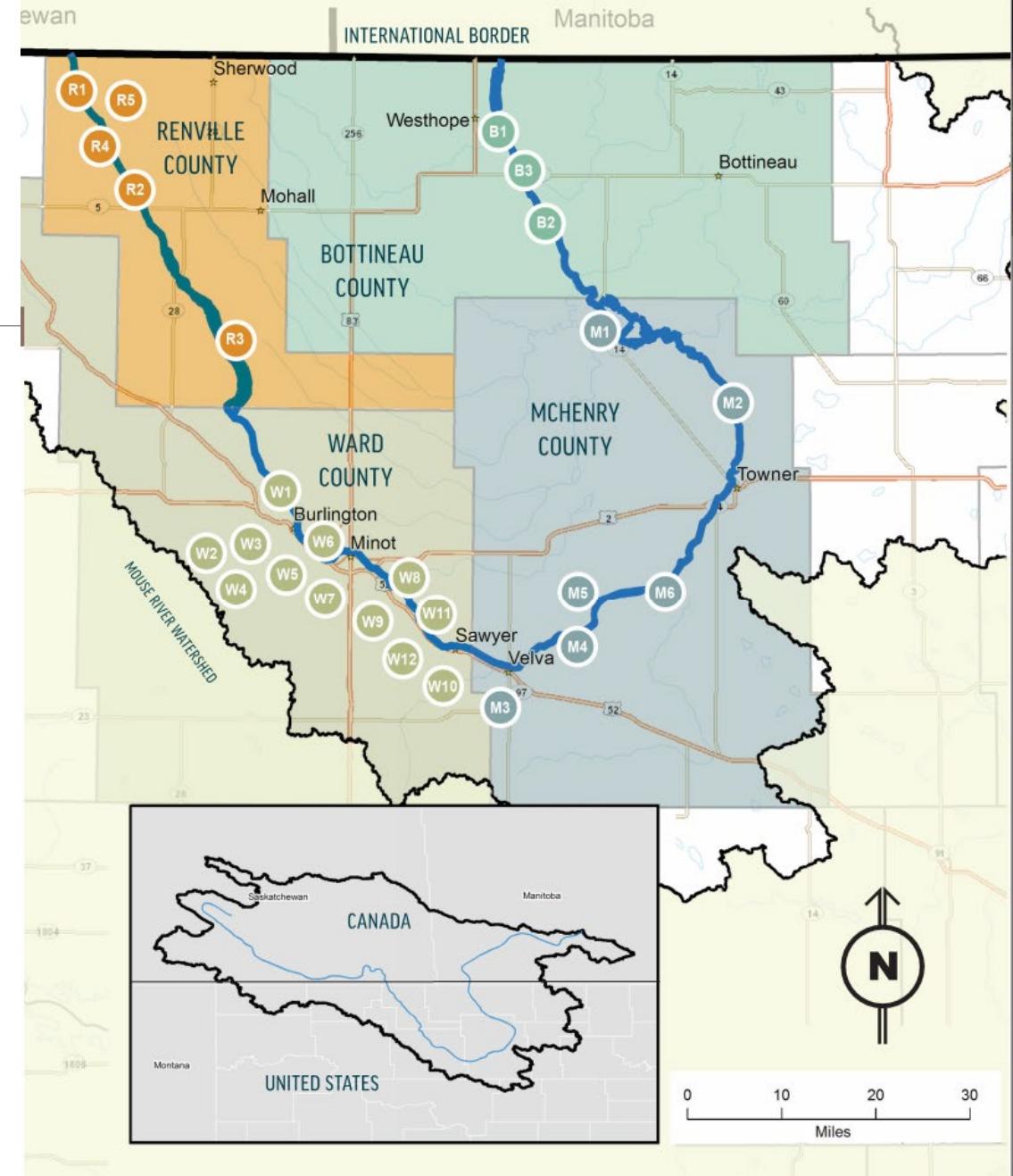
\$1.1 Billion Program

-\$430 Million Complete

\$670 Million Remaining

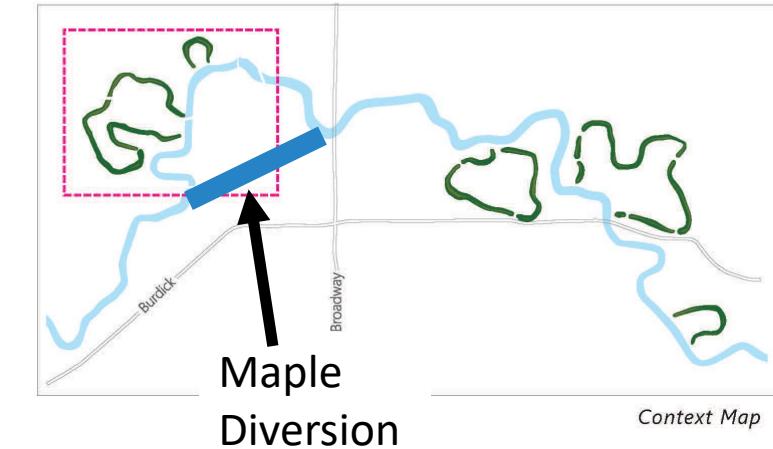
-\$220 Million Appropriated & In Queue

**~\$450 Million Unmet Need (2024 Dollars)**





# OAK PARK AND NUBBIN PARK



Context Map

The Oak Park and Nubbin Park dead loops are unique in the context of the Mouse River Enhanced Flood Protection Project, as they are located along the section of the river that has been coined the Ramstad Loop. This section of the river (Ramstad Loop) will be isolated from natural flows during the operation of the proposed Maple Diversion. Provided that the operational trigger of the Maple Diversion is low enough to not cause interior flooding in Oak Park or the surrounding neighborhoods, the gates along the dead loops can be removed and other improvements can be made to enhance the ecological and recreational characteristics of the Oak Park and Nubbin Park dead loops. The improvements associated with the Oak Park and Nubbin Park areas include:

#### Oak Park Improvement

1. Dredge accumulated sediment from the dead loop
2. Remove the existing gate structures and embankments at the upstream and downstream ends of the dead loop
4. Construct a new weir structure along the main channel of the river
5. Construct a new bridge over the dead loop at the Camp Owetti access road
6. Construct a pedestrian bridge at the upstream end of the Oak Park dead loop

#### Nubbin Park Improvements

1. Dredge accumulated sediment from the dead loop
2. Remove the existing gate structures and embankments at the upstream and downstream ends of the dead loop
4. Construct a new weir structure along the main channel of the river
6. Construct new bridges to provide pedestrian and maintenance vehicle access to Nubbin Park

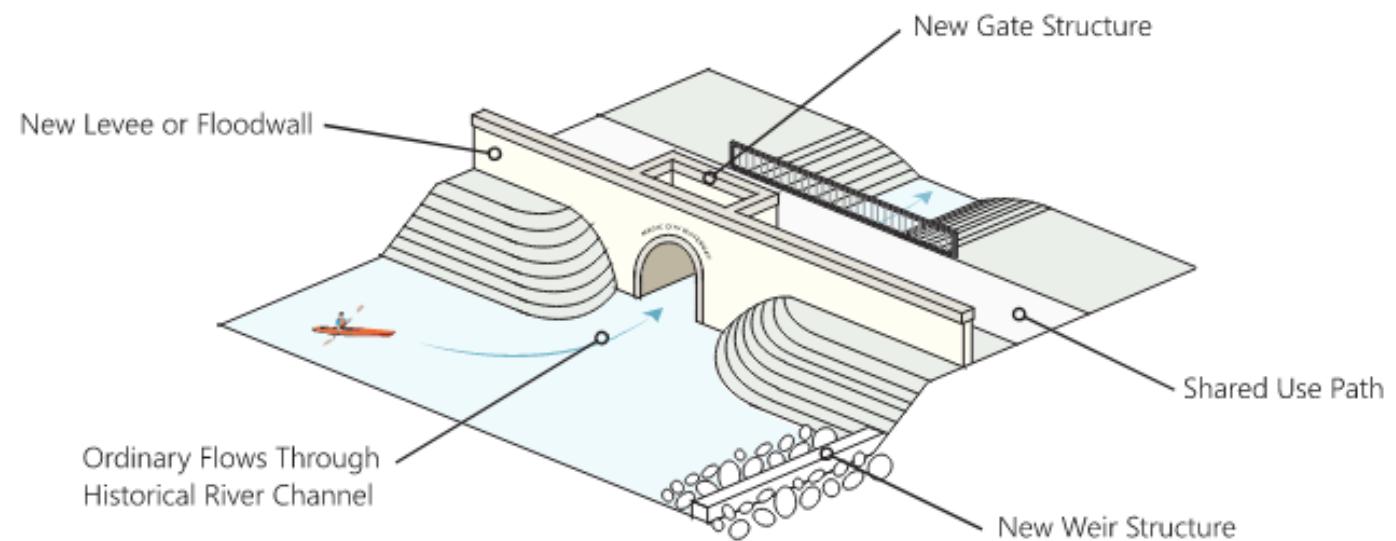
The existing Oak Park dead loop is approximately 1.5 miles long. The estimated cost of these improvements is \$8 million. If constructed, there would be an uninterrupted river length of 2.7 miles from 16th Street Southwest to Nubbin Park.

The existing Nubbin Park dead loop is approximately 0.3 miles long. The estimated cost of these improvements is \$6 million. If the upstream dead loop is also improved, there would be an uninterrupted river length of 4.6 miles from 16th Street Southwest to the Roosevelt Park Pool.

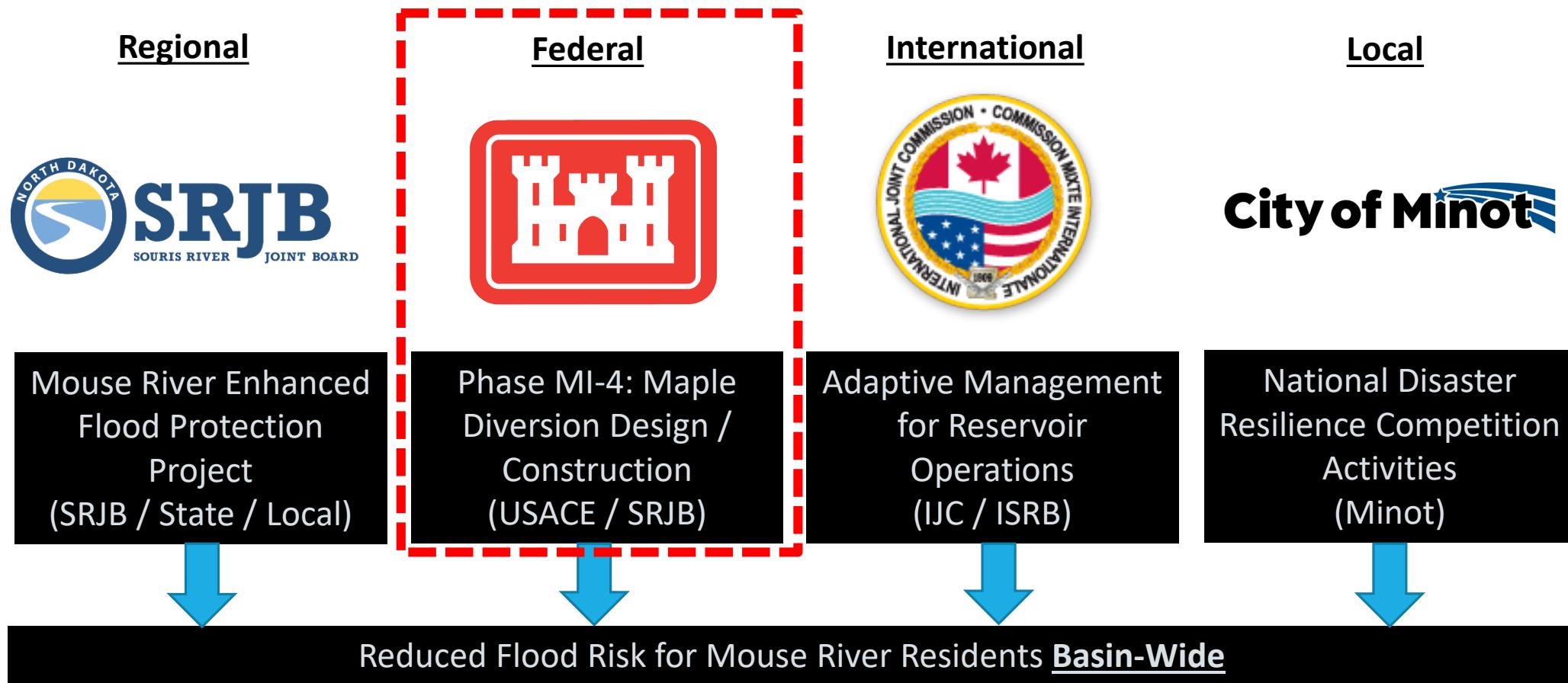


Cost of features which would allow larger amounts of water and watercraft to pass through the flood protection features (levees / floodwalls) and into the 'dead loops' is high (~\$25M per loop)

Current design of Phase MI-6 includes features that will improve the flows through the 'dead loops' but they will not be nearly as effective as those planned within Oak Park / Nubbin Park.



# Parallel Efforts to Reduce Flood Risk



# THE ST. PAUL DISTRICT SA MAPLE DIVERSION FEBRUARY 21, 2024

KARL JANSEN, PE, PMP  
DEPUTY DISTRICT ENGINEER

NATHAN WALLERSTEDT, PE, PMP  
CHIEF – PROJECT MANAGEMENT  
BRANCH B (PM-B)

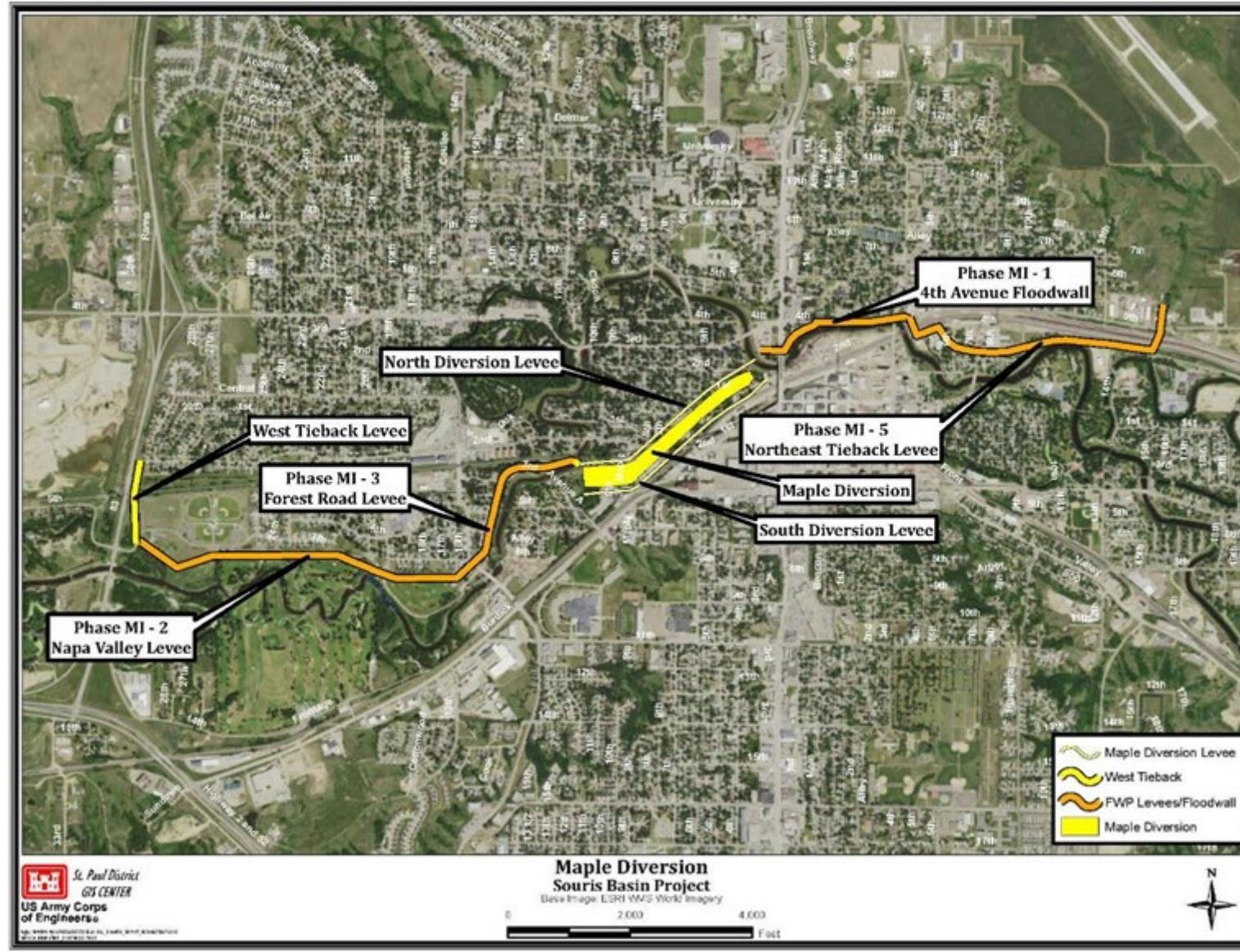


U.S. ARMY  
US Army Corps  
of Engineers





# MAPLE DIVERSION (MI-4)





# SIGNIFICANT ACTIVITIES TO DATE

- Construction Authorized in Water Resources Development Act (WRDA) 2020.
- Project funded under the Bipartisan Infrastructure Law (BIL) for \$61.4M.
- Design Agreement (DA) executed between USACE and SRJB in February 2023.
- SRJB will prepare the design; USACE will conduct formal design reviews to ensure compliance with Federal design guidance and regulations.
- Design efforts paused ~April 2022 to present during railroad track alignment coordination activities.

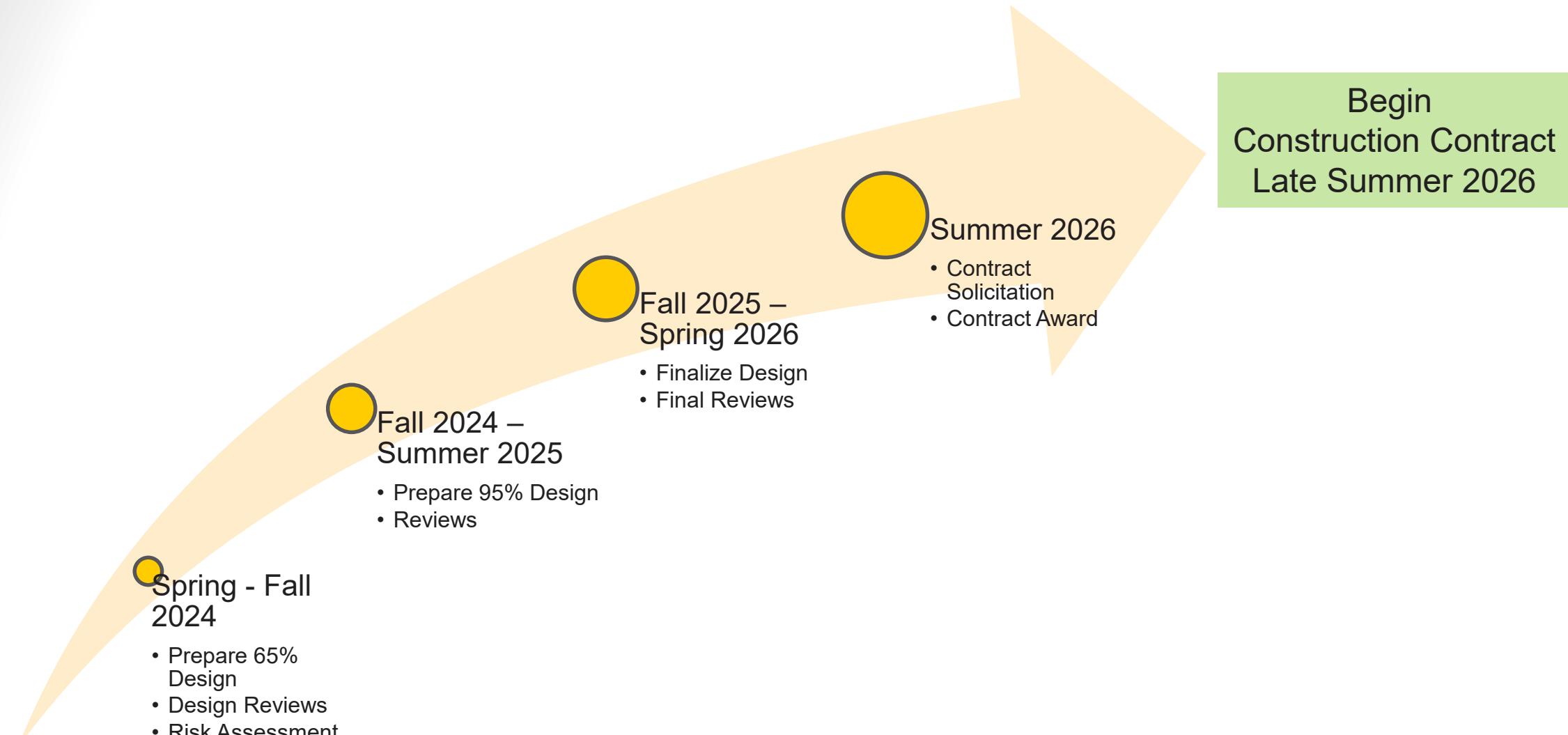


# IMPORTANT UPCOMING TASKS





# ESTIMATED FUTURE SCHEDULE TO EXECUTE BIL FUNDING ON THE MAPLE DIVERSION



*Schedule assumes full funding and no further deviations with railroad coordination*



# ESTIMATED SCHEDULE TO EXECUTE BIL FUNDING ON THE MAPLE DIVERSION

	2024					2025					2026					2027					2028																
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
AE Design from RR Agreements to 65% Design																																					
USACE 65% DQC Review																																					
USACE 65% ATR Review																																					
USACE SAR Review																																					
USACE Risk Assessment																																					
AE Design to 95%																																					
USACE 95% DQC Review																																					
USACE 95% ATR Review																																					
USACE 95% SAR																																					
AE Design Finalization																																					
USACE BCOES Review																																					
Construction Solicitation																																					
Contract Award																																					
Begin Construction																																					
Construction Complete																																					

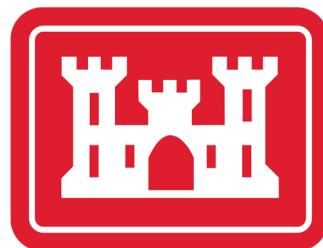
Continued delays with RRs will push  
schedule to the right



# THANK YOU

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BRIEFING TO  
US SENATOR JOHN HOEVEN  
21 FEBRUARY 2024



**SRJB**  
SOURIS RIVER JOINT BOARD



**FEDERAL FLOOD RELIEF AND RECOVERY EFFORTS FOR  
MINOT/WARD COUNTY**  
**As of February 21, 2024**

Grants, Loans and Direct Assistance to Minot/Ward County:	\$752.23 million
○ U.S. Army Corps of Engineers, 2011 Mouse River flood fight	\$27 million
○ U.S. Army Corps of Engineers, Phase 4 Maple Diversion (includes \$3.6 million for the feasibility study and \$61.4 million for project construction)	\$65 million
○ Department of Defense Community Infrastructure Grant (in support of Phase 5 of the regional flood protection project)	\$9.8 million
○ Emergency Relief road repairs for city, county, and state roads in Minot and Ward County est. federal share (Includes \$37.75 million for county and city roads and \$35.7 million for state roads located in Ward County that incurred damage during the 2011 Disaster Event)	\$73.45 million
○ Public assistance for infrastructure damage (including schools)	\$83.4 million
○ FEMA Individual Assistance	\$89.8 million
○ SBA disaster loans	\$240.9 million
○ Community Development Block Grants	\$117.3 million
○ Hazard Mitigation Grant Program (including the flood wall protecting the water treatment plant)	\$25.58 million
○ Economic Development Assistance—Disaster Recovery Grants (Approximately \$18 million awarded May 2013)	\$20 million