

# FM Area Diversion Project Update

Jason Benson, Executive Director



Agenda

01 Project Overview

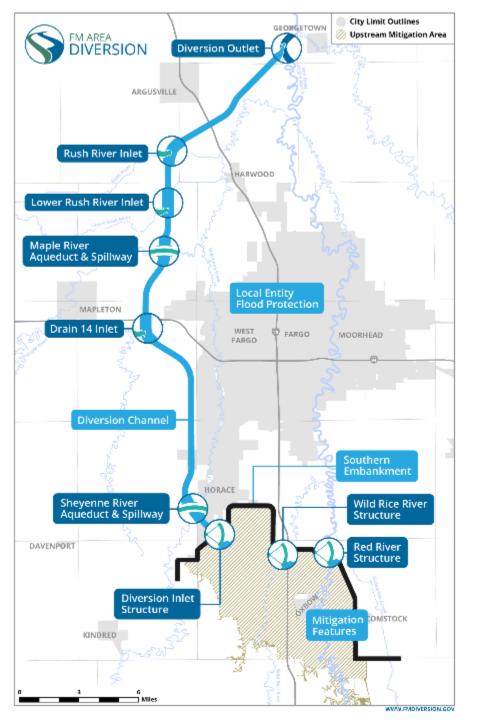
02 Diversion Channel Progress

03 Southern Embankment Progress

04 In-Town Progress

05 Flood Insurance





# Project Goals

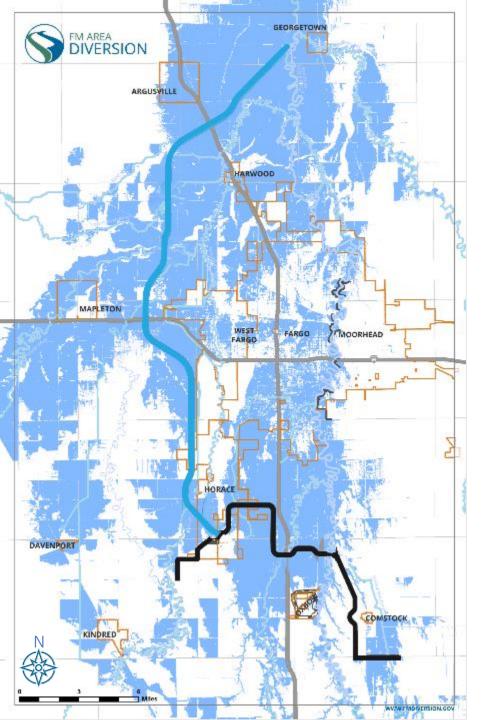


### 100-year flood protection minimum

37-foot river stage through town

### **500-year fightable protection**

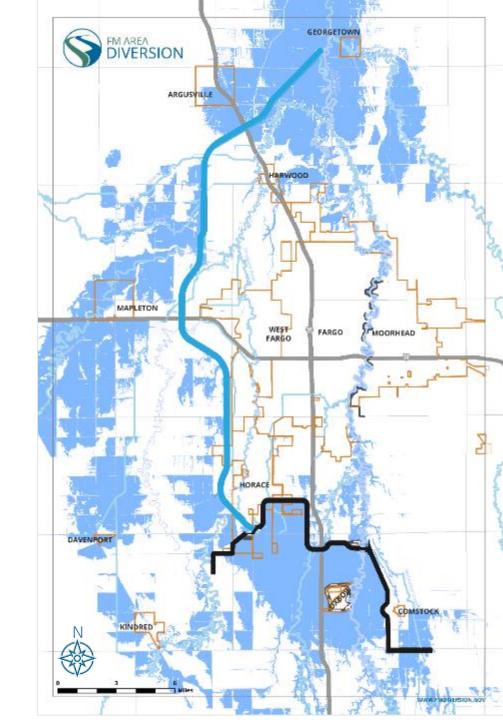
40-foot river stage through town



# 100-Year Floodplain

**Existing Conditions** 

With Project



## 2024 Year in Review

## **68** Components Under Construction





from Drone Surveying

316K



Hours Put on P3 Machinery





800

**Boulders Placed** at Drayton Dam

>80



28M

CY of Material Excavated

850K

of Engineers





Miles of Piling Driven



23K

CY of Concrete **Placed** 



CY of Concrete Placed at the **Red River Structure** 



Miles of Piling

**Driven at RRS** 





Acres of Native Grasses **Planted** 



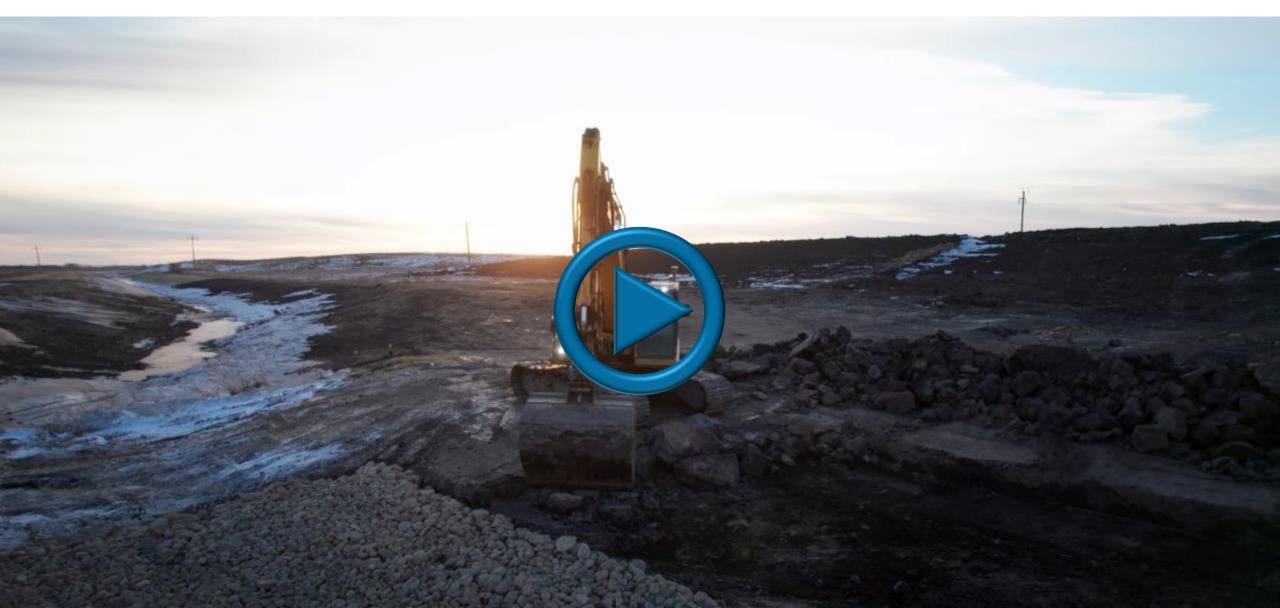


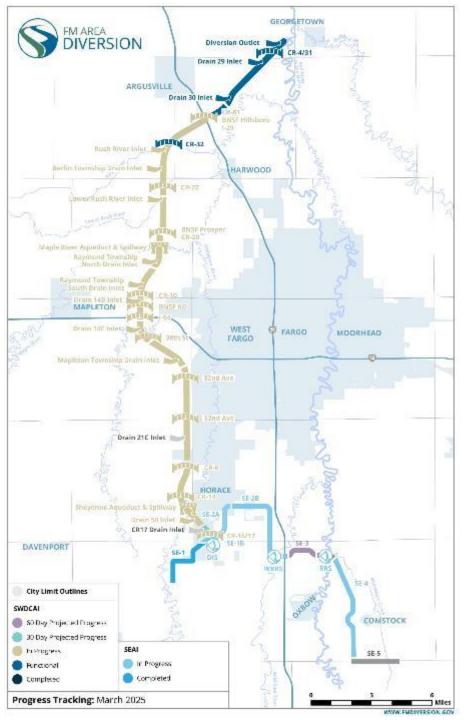
Stormwater Lift Stations Worked On



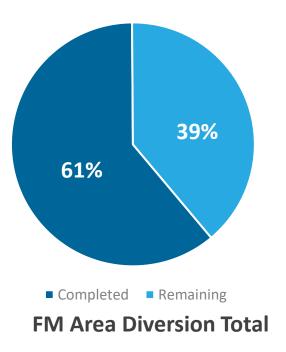
# Project Flyover



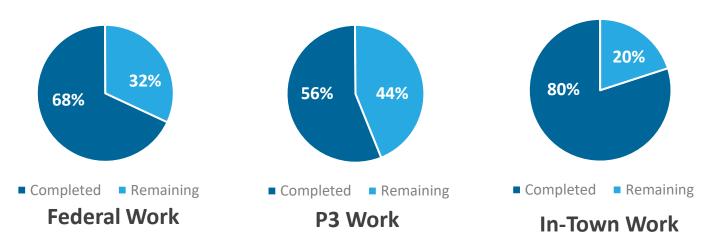








# **Construction Completion**

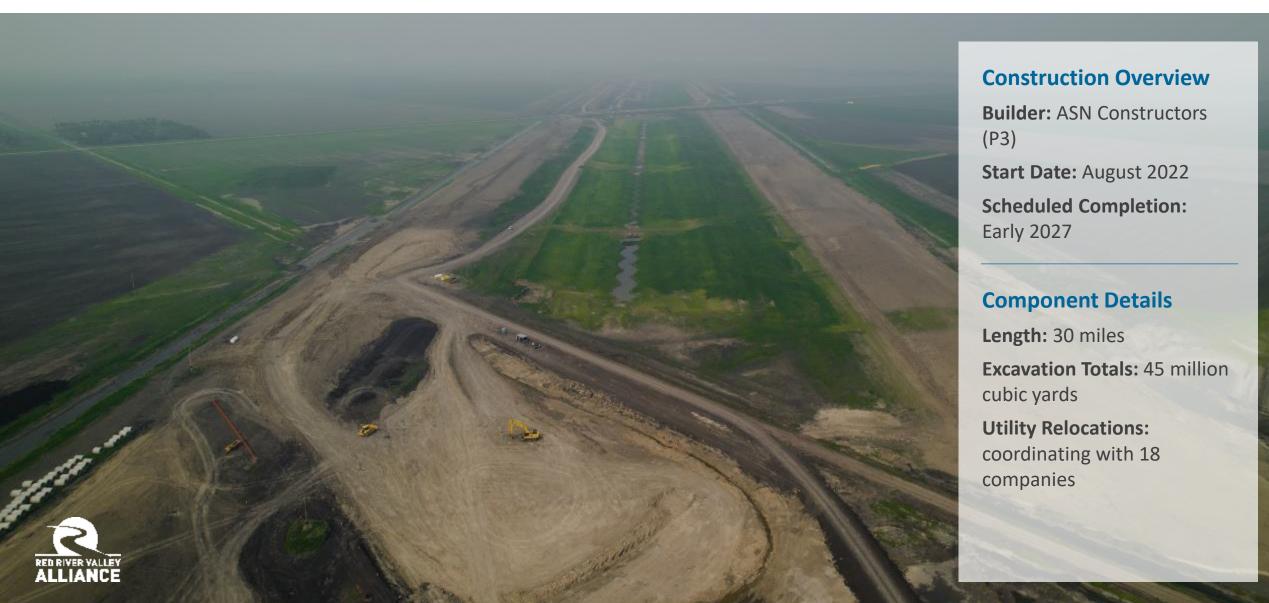




# Stormwater Diversion Channel & Associated Infrastructure Portion

## Stormwater Diversion Channel





# METRO FLOOD DIVERSION AUTHORITY Stormwater Diversion Channel **Toe Drains Low Flow Channel** Levee **Main Channel Excavated Material Berm**

# Aqueduct Design





# Maple River Aqueduct





#### **Construction Overview**

**Builder:** ASN Constructors

(P3)

Start Date: June 2023

**Scheduled Completion:** Q4

2025

#### **Component Details**

Length: 250 feet

Width: 50 feet

Concrete: 10,000 cubic

yards

Piling: 48,194 linear feet of

H pile

# Sheyenne River Aqueduct





#### **Construction Overview**

**Builder:** ASN Constructors

(P3)

Start Date: 2024

**Scheduled Completion:** 

early 2027

#### **Component Details**

Length: 250 feet

Width: 35 feet

Concrete Used: 8,000 cubic

yards

Piling: 9,642 linear feet of

sheet pile

## Diversion Outlet





# Interstate & Railroad Crossings









I-94

I-29

**BNSF** Hillsboro







**BNSF Shoofly** 

**BNSF Prosper** 

**BNSF KO** 



# County Road Construction





County Road - Deck Pour



County Road - Deck Forming





**County Road - Substructures** 



County Road - Piling



County Road - Preload



## Drains & Inlets





Drain 14B



Drain 14C



Drain 29



Drain 30



Lower Rush Inlet



**Rush River Inlet** 





## Diversion Inlet Structure





## Wild Rice River Structure





## Red River Structure





## Southern Embankment





Reach 1A – 100% Completed



Reach 1B – 29% Completed



Reach 2A – 76% Completed



Reach 2B - 37% Completed



Reach 4 – 5% Completed

### **Up Next**

**Reach 3** – Contract awarded in January 2025 to HSG Park Joint Venture 2 in 2025

Reach 5 – Starting in 2025

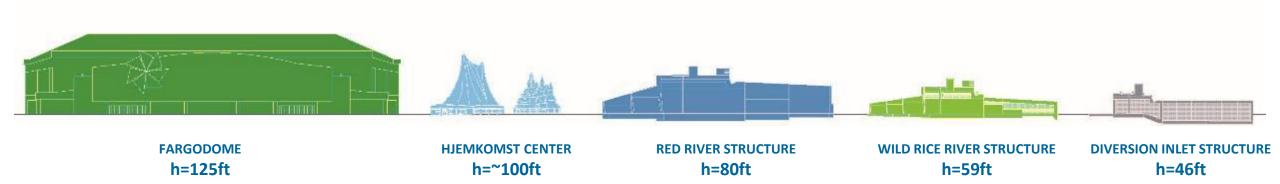
## I-29 Grade Raise





# Size Comparisons













CCJWRD

Cass County Joint Water

Resource District



## In-Town Flood Protection









#### **Construction Overview**

Projects began in 2009 to allow for up to 37 feet of floodwater to flow safely through town

#### **Project Details**

18 stormwater lift stations

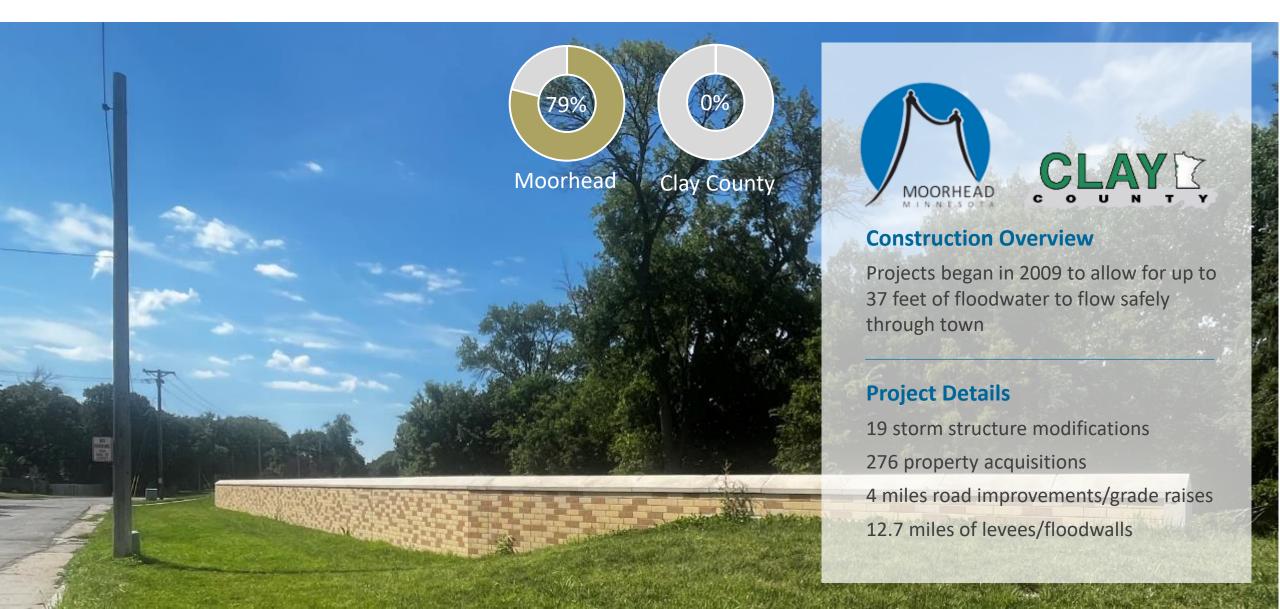
259 property acquisitions

4.4 miles county road improvements/ grade raises

26.2 miles of levees/floodwalls

## In-Town Flood Protection



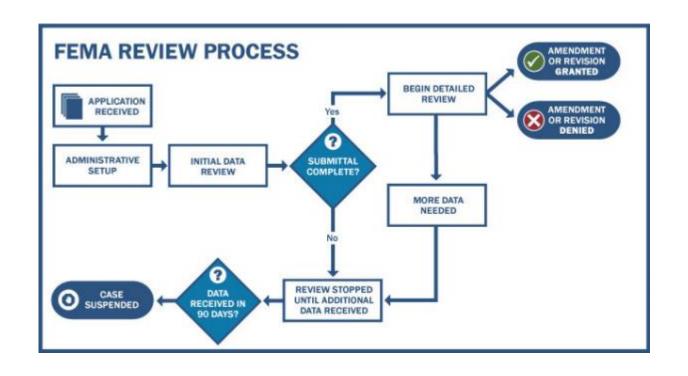


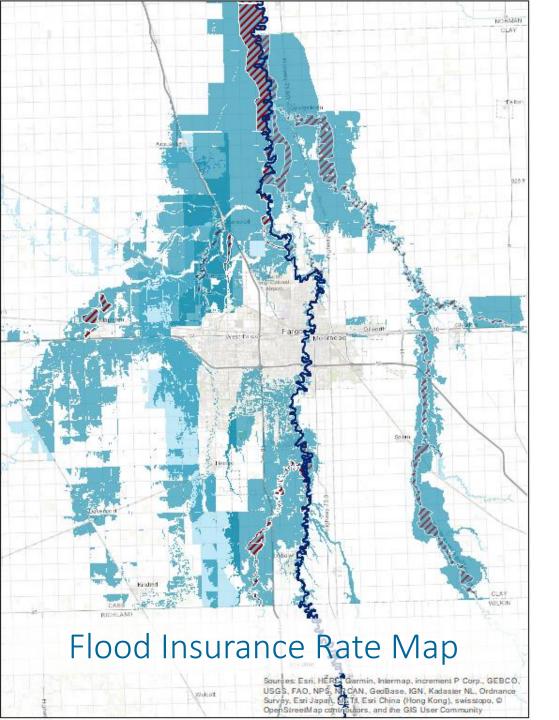


## What's a CLOMR?



- Conditional Letter of Map Revision
- FEMA's comment on a proposed project that may change the floodplain or probability of flooding
- Receiving a CLOMR is the first step in certifying property is protected from a 100-year flood event
- Does not revise the current National Flood Insurance Program (NFIP) map
- Building permits cannot be issued based on a CLOMR







## Does this impact flood insurance?

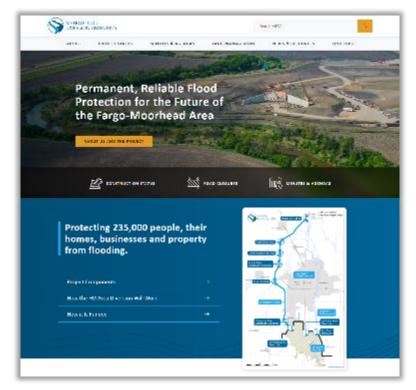
No, not yet. Once built and certified by FEMA, the mandatory flood insurance requirement for thousands of people will be removed.

### What happens after a CLOMR?

Once the FM Area Diversion is ready to operate, the MFDA will ask FEMA to look at its flood map and lift the insurance requirement since the project will provide certifiable protection. The requirement can be lifted with a Letter of Map Revision, or LOMR.

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