

January 30, 2025

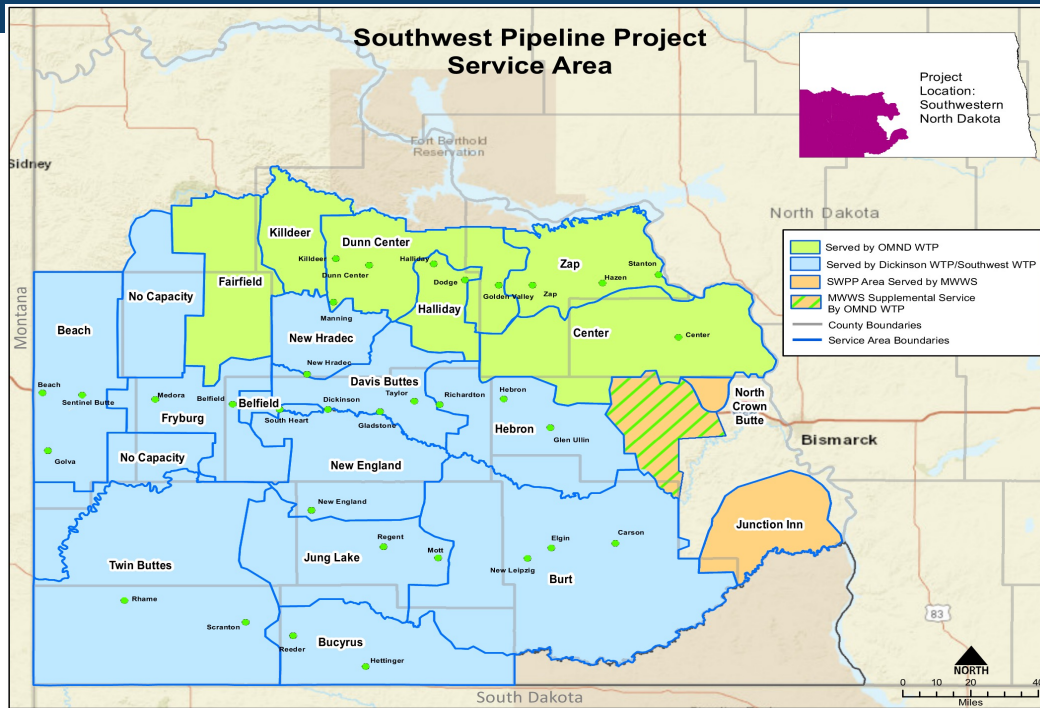
# SOUTHWEST PIPELINE PROJECT LEGISLATIVE TESTIMONY

HB 1020, House Education & Environment Division

Justin Froseth, PE - SWPP Manager, Department of Water Resources  
Jen Murray - Manager/CEO, Southwest Water Authority



# SOUTHWEST PIPELINE PROJECT



Population Served Is ~ 58,000

Over 7,750 Rural Customers

5,262 Miles Of Pipeline

33 Communities

13 Counties

34 Million Gallons Of Storage

35 Booster Pump Stations

32 Water Storage Tanks & Reservoirs

3 Water Treatment Plants

2 Additional Rural Water Systems



# SOUTHWEST PIPELINE PROJECT



- Authorized By The ND Legislature In 1981
- Multi-County, Fully Integrated Regional Water Supply System - Domestic, Rural, Municipal, Livestock, Light Industrial
- Capital Asset Of The State Of North Dakota



- Owner Of The Southwest Pipeline Project (SWPP)
- Governance Of The SWPP



- Construction Administration, Design & Oversight Of The SWPP



- Political Subdivision Authorized By The ND Legislature In 1991
- Management, Operations & Maintenance Of The SWPP
- Governed By A 15-Member Publicly Elected Board Of Directors





## MISSION

Quality Water For  
Southwest North Dakota

# SOUTHWEST WATER AUTHORITY BOARD OF DIRECTORS



## VISION

People And Business Succeeding  
With Quality Water



Jonathon Eaton  
Adam County  
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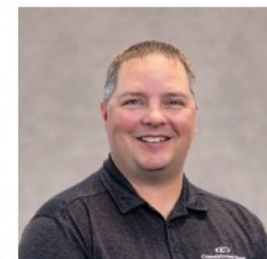
Dave Burke  
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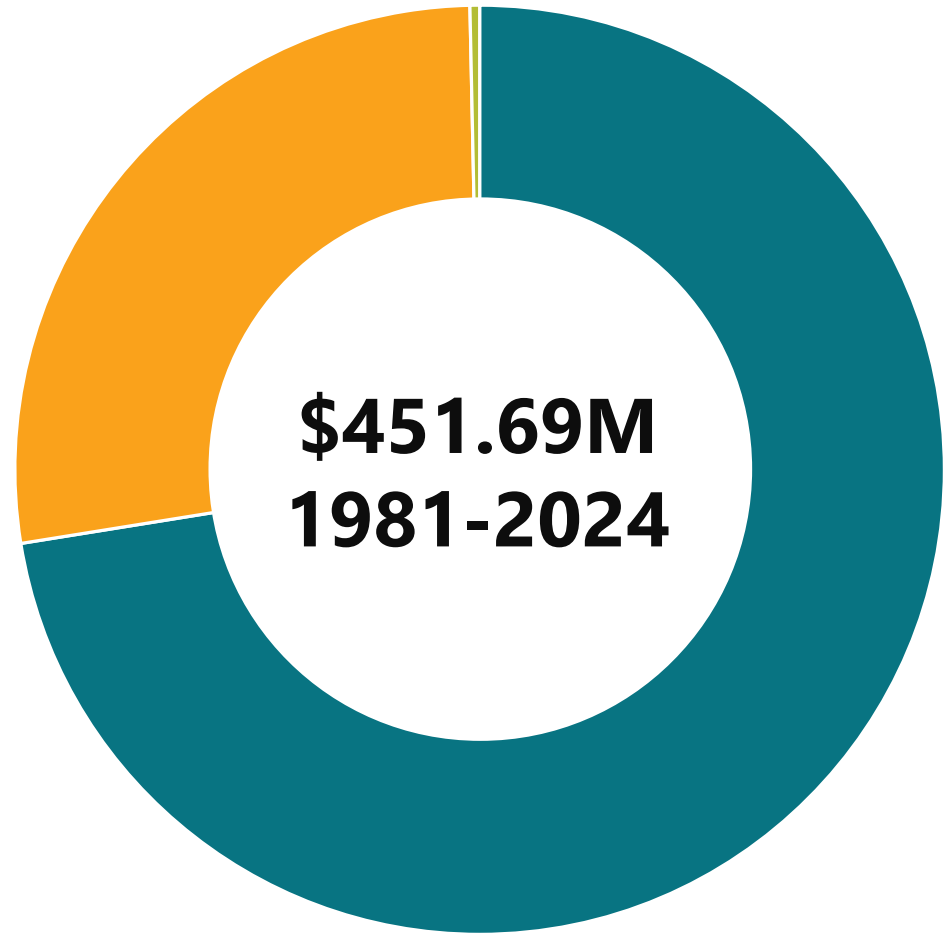


# SOUTHWEST PIPELINE PROJECT FUNDING

State Funding  
**\$327.63 Million**

Federal Funding  
**\$121.92 Million**

REM Fund  
**\$2.14 Million**



# SWPP FUNDING MODEL



- Funded 100% By The State Water Commission
- **Every Customer Pays Capital Repayment**
- Capital Repayment Is A Component Of SWPP's Water Rate
- Capital Repayment Rate Adjusted Annually By The Consumer Price Index (CPI)

## **2025 Capital Repayment Rate:**

Contract Customers \$1.51/1,000 Gallons Sold

- Capital Repayment Rate For SWPP's Rural Customers Is Included In The Monthly Minimum/Base Rate

## **2025 Capital Repayment Rate:**

Rural Customers \$46.16/Month

- SWPP's Customer **Growth** Will Result In More Capital Repayment Back To The State

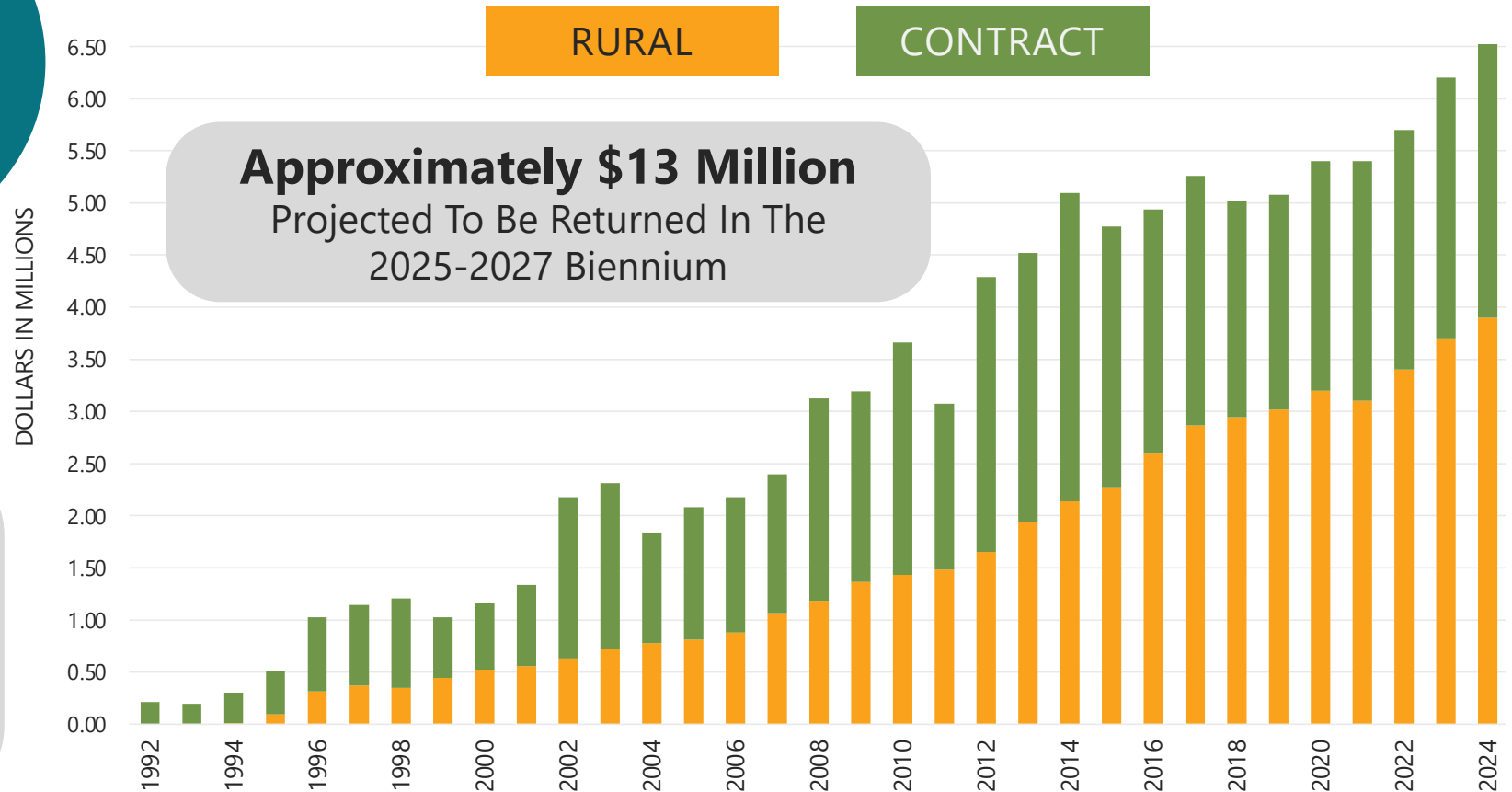
# SOUTHWEST WATER AUTHORITY

## CAPITAL REPAYMENT BY YEAR

**\$102.8  
Million\***

Through  
December  
2024

**\*23%**  
Of Total  
Funding  
Returned





# \$100 MILLION CAPITAL REPAYMENT CELEBRATION





# FOCUS AREAS



## **Transmission Facility Improvements**

Main Transmission Lines - Raw & Potable  
Pump Station Upgrades

## **Strategic Hydraulic Improvements**

Prioritized Improvements Based On Known Needs

## **Rural Service Area Expansion**

Underserved Areas

## **Replacement Of Critical Infrastructure**

Microbiologically Induced Corrosion

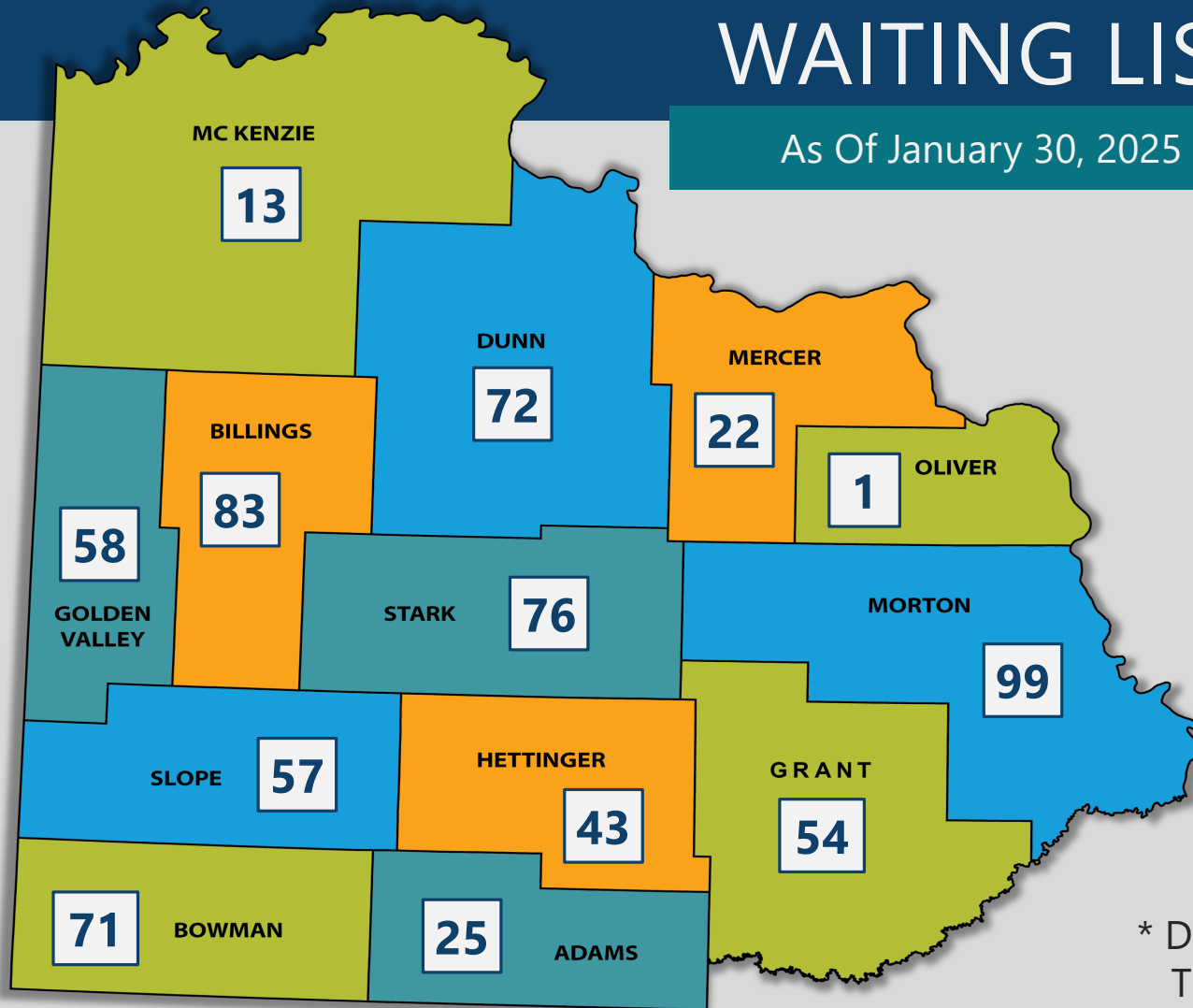
# WAITING LIST

As Of January 30, 2025

# 675\*

Locations In SWA  
Service Area  
By County

\* Does Not Include 825 Signups In  
The Burt -Hebron Service Area





# MICROBIOLOGICALLY INDUCED CORROSION





# WEST ZONE TRANSMISSION IMPROVEMENTS

## 2023 - 2025 PROGRESS

Will Increase West Zone Transmission Capacity  
Through Main Transmission Parallel Pipe, Booster  
Stations & Storage Reservoirs From Dickinson To Beach

Preliminary Designs Completed  
SWC Decision - October 2024

Buffalo Gap Storage Reservoir - West Of Medora  
Bidding Expected In Early 2025



# SUPPLEMENTARY RAW WATER INTAKE

## 2023 - 2025 PROGRESS

Mediation Progressing

Amendment To Water Supply Agreement With Basin  
Electric Power Cooperative Was Approved

Will Allow Additional Capacity  
From Existing Shared Intake

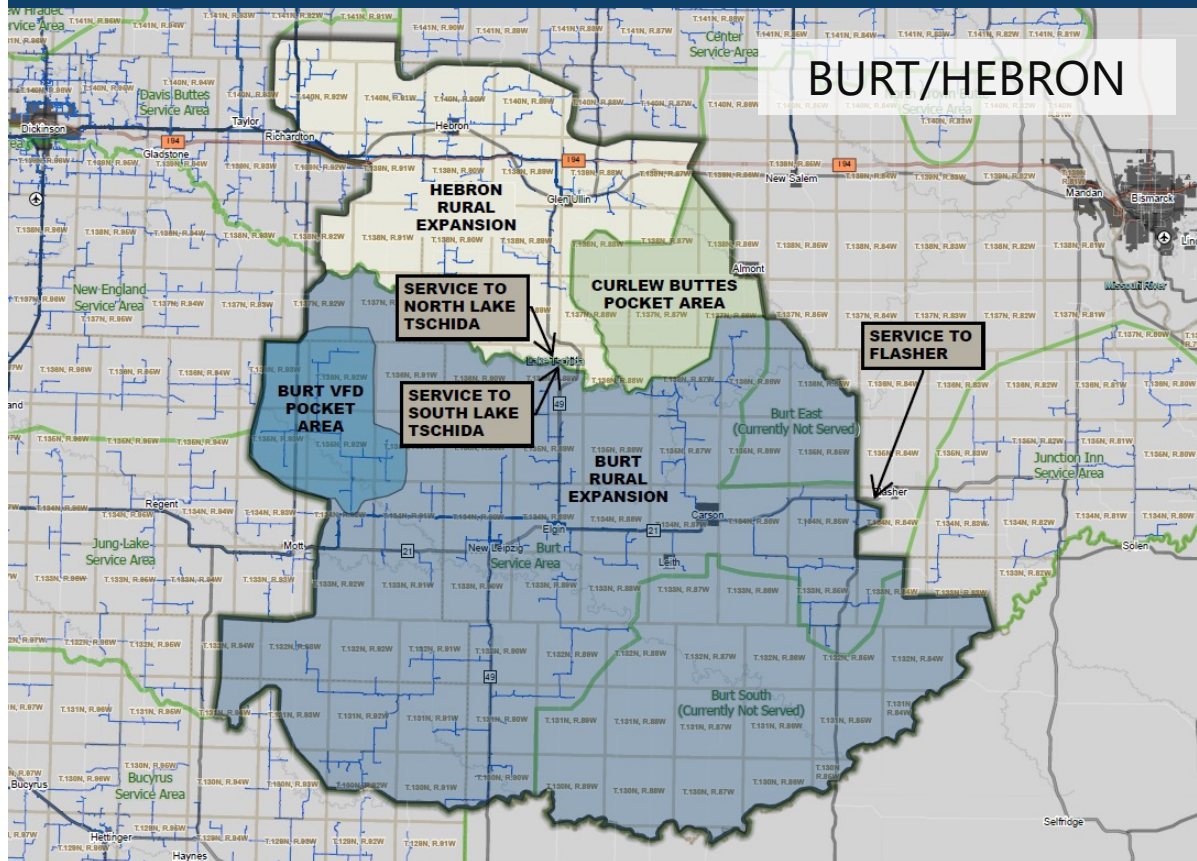
Design Will Begin Soon

Supplementary Raw Water Intake Still Needed





# RURAL SERVICE AREA EXPANSION



## 2023 - 2025 PROGRESS

Preliminary Design & Cost Estimate For The Entire Expansion Approximately \$76 Million

Phase One - Hebron Rural Service Area Expansion

Final Design & Bidding Expected In 2025

Feasibility Criteria & Capital Repayment Was Adjusted In 2024 To Move The Project Forward

Water Lines

Signup Area

Service Area

# HYDRAULIC IMPROVEMENTS



## 2023 - 2025 PROGRESS

Increase Capacity Primarily Through Parallel Pipelines & Booster Stations

Allows For New Users To Connect Where Demand Well Exceeds Capacity

North New England Service Area Under Design

Benefit To Around 90 Waitlist Users



# METALLIC PIPELINE REPLACEMENT



## 2023 - 2025 PROGRESS

Have Replaced About 4,500 Lineal Feet Over The Past Two Years

Study & Exploration Ongoing To Determine Vulnerable Locations

Most Of The Replacement Needed Is On The Raw Water Pipeline But Some Is On Larger Potable Transmission Pipeline

Discussion Ongoing Regarding Management Entity



# PROJECTS PROPOSED FOR 2025-2027

INCLUDED IN EXECUTIVE BUDGET RECOMMENDATION - **\$131.7 MILLION**



Southwest Water Treatment Plant 12 MGD  
Expansion - Construction Starting Soon

West Zone Transmission Expansion  
Main Transmission Parallel  
Piping & Pump Station Upgrades

Supplementary Raw Water Intake  
Construction Post Mediation

# PROJECTS PROPOSED FOR 2025-2027

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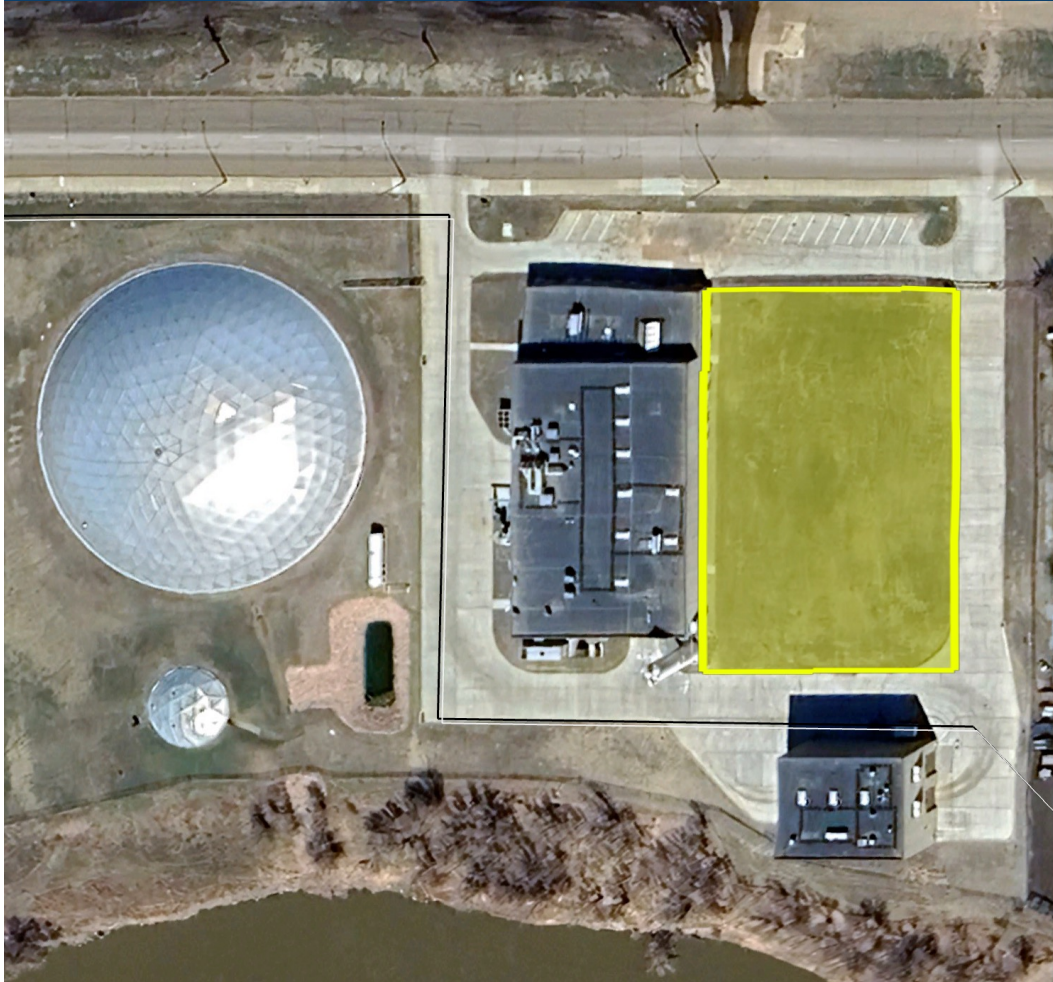
Burt-Hebron Expansion  
Phase 2 To North Side Of Lake Tschida

Strategic Hydraulic Improvements  
One Project Planned Per Biennium

Ray Christensen Pump Station Upgrades  
Needed For West Zone Expansion

Metallic Pipeline Replacement  
2,400 Lineal Feet Identified For Replacement

# SOUTHWEST WATER TREATMENT PLANT EXPANSION



**Total Estimated Project Cost  
\$106M**

Necessitates \$106M - \$40M  
(2023-2025 Funding) =  
**\$66M In 2025-2027 Budget**

Construction Beginning In  
**Early 2025**  
*Three Year Construction Project*



# RAY CHRISTENSEN PUMP STATION UPGRADES



- The Ray Christensen Pump Station Delivers Water To All Three Main Transmission Line Zones
  - West Zone
  - South Zone
  - North & East Zone
- Upgrades Needed To Realize The Full Hydraulic Benefit Of West Zone Project Improvements
- Beyond West Zone, Upgrades Would Increase Capacity For Other Two Zones



# THANK YOU

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Water Resources

