



# AWWU

## Anchorage Water & Wastewater Utility

WATER MASTER PLAN UPDATE

ASSEMBLY INFRASTRUCTURE, ENTERPRISE, AND UTILITY  
OVERSIGHT COMMITTEE

JANUARY 15, 2026



# AGENDA



Plan Purpose

Existing Conditions

Future Conditions

Proposed Projects

Schedule



# AWWU WATER MASTER PLAN



## Purpose

- Support efficient and effective operation of transmission and distribution systems
- Identify and prioritize anticipated capital improvements over a 20-year timeframe (2045)
- Provide cost-effective and responsive service updates based on community needs





# EXISTING CONDITIONS

ANCHORAGE WATER &  
WASTEWATER UTILITY  
3000 ARCTIC BLVD





## CURRENT SYSTEM

- AWWU provides service to approximately 55,000 customers within its certificated area
- Water system includes:
  - 2 water treatment plants
  - 12 wells
  - 850+ miles of distribution pipes
  - 5,800+ fire hydrants
  - 20 reservoirs and clearwells storing 70 million gallons (MG) of water
  - Peak demand approximately 50 MG/day
  - Average demand approximately 23 MG/day





# FUTURE CONDITIONS

ANCHORAGE WATER &  
WASTEWATER UTILITY  
3000 ARCTIC BLVD





# PLANNING PERIOD DRIVERS

## Population

- Minimal population change projected
- Greatest potential in Eagle River

## Demand

- Slow customer growth
- Stable to reduced demand

## System

- Adequate supply and storage, except Girdwood
- In general, good distribution capacity
- Good system condition
- Large distribution projects needed less than before
- R&R emphasis to maintain LOS



# PLANNING PERIOD DRIVERS

## Development

- Rising project costs
- Smaller scale, just in time

## Funding

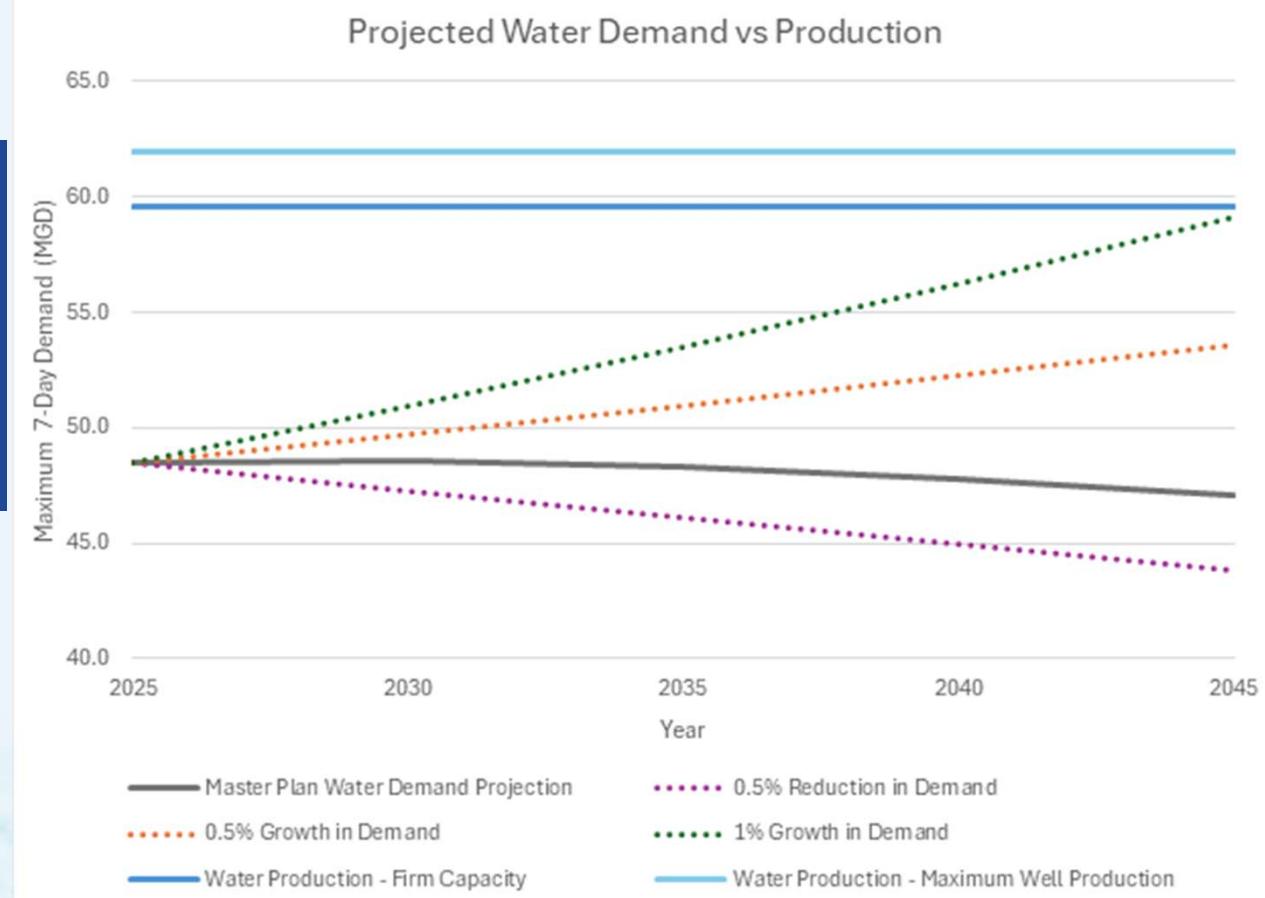
- Flat revenue, balanced CIP
- Decreasing state and federal funding

## Regulations

- PFAS considerations impacting well supply
- Lead and Copper Rule considerations

## WATER SUPPLY AWWU SYSTEM WIDE

- Adequate into the future





# PROPOSED PROJECTS

ANCHORAGE WATER &  
WASTEWATER UTILITY  
3000 ARCTIC BLVD



## REHABILITATION AND REPLACEMENT

- Replacing aging infrastructure
- Minimizing needs for emergency repairs

## Maintain existing service

Project examples:

- Girdwood water storage tank
- Water reservoir refurbishments
- Pipe replacements





# Municipality of Anchorage

## Anchorage Water and Wastewater Utility

### 2025 Water Master Plan



# ANCHORAGE

## **Rehabilitation and Replacement**



## Projects

Year 1 to 5

-  Booster
-  Reservoir
-  Well
-  Other

## Year 6 to 10

- ◆ Reservoir
- Year 11 to 20**
- ▲ PRV
- ▲ P

◀ Main

- Year 1 to 5
- Year 6 to 10
- Year 11 to 20

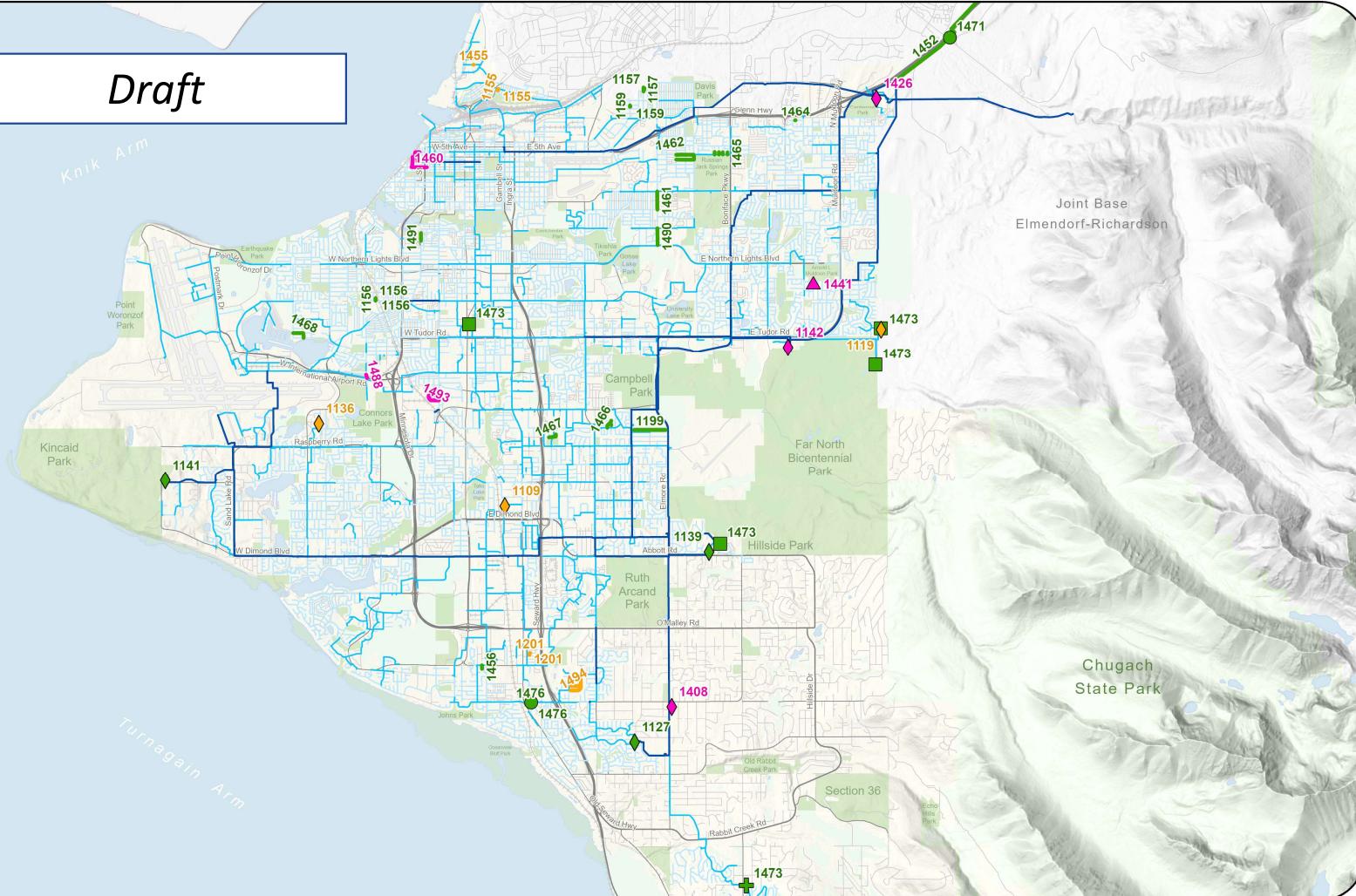
## Area

- Year 1 to 5
- Year 6 to 10

**Pipes**

- $\leq 10$  inch
- 12-20 inch

Draft





# Municipality of Anchorage

## Anchorage Water and Wastewater Utility

### 2025 Water Master Plan

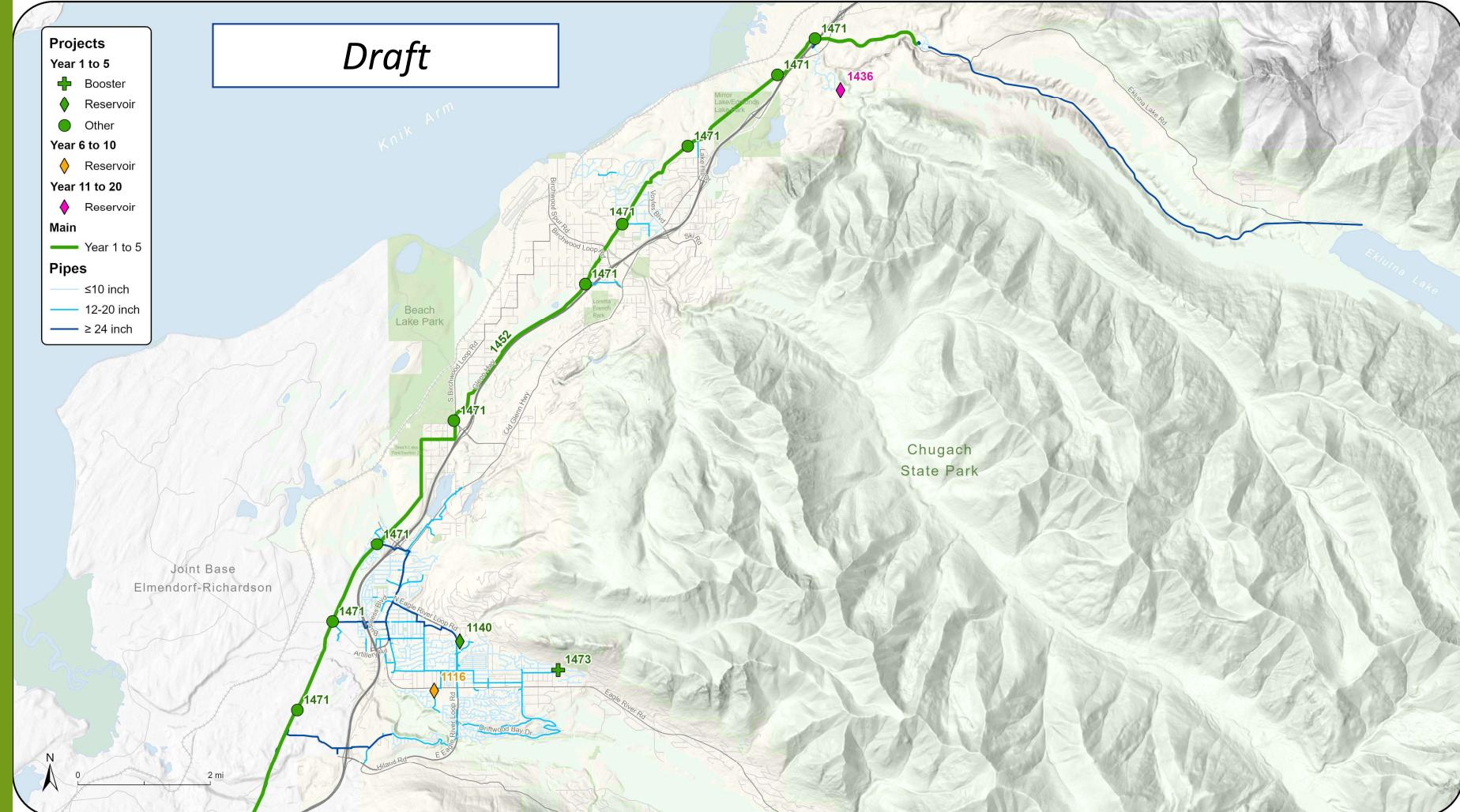


# **NORTHERN COMMUNITIES**

## **Rehabilitation and Replacement**



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## CAPACITY IMPROVEMENTS

- Mitigating potential of transmission main failure
- Supporting future development opportunities

## Meet peak demand (Summer/Warmer Weather)

Project examples:

- Girdwood water supply improvements
- Eagle River Fire Lake reservoir (new)





## SYSTEM OPTIMIZATION

- Minimizing operating costs
- Maximizing redundancy and resilience

## Increase redundancy and efficiency of service

Project examples:

- Smaller pipe interties and connections (systemwide)
- Pressure zone consolidations
- Electrical generating turbine installations





# Municipality of Anchorage

Anchorage Water and Wastewater Utility  
2025 Water Master Plan

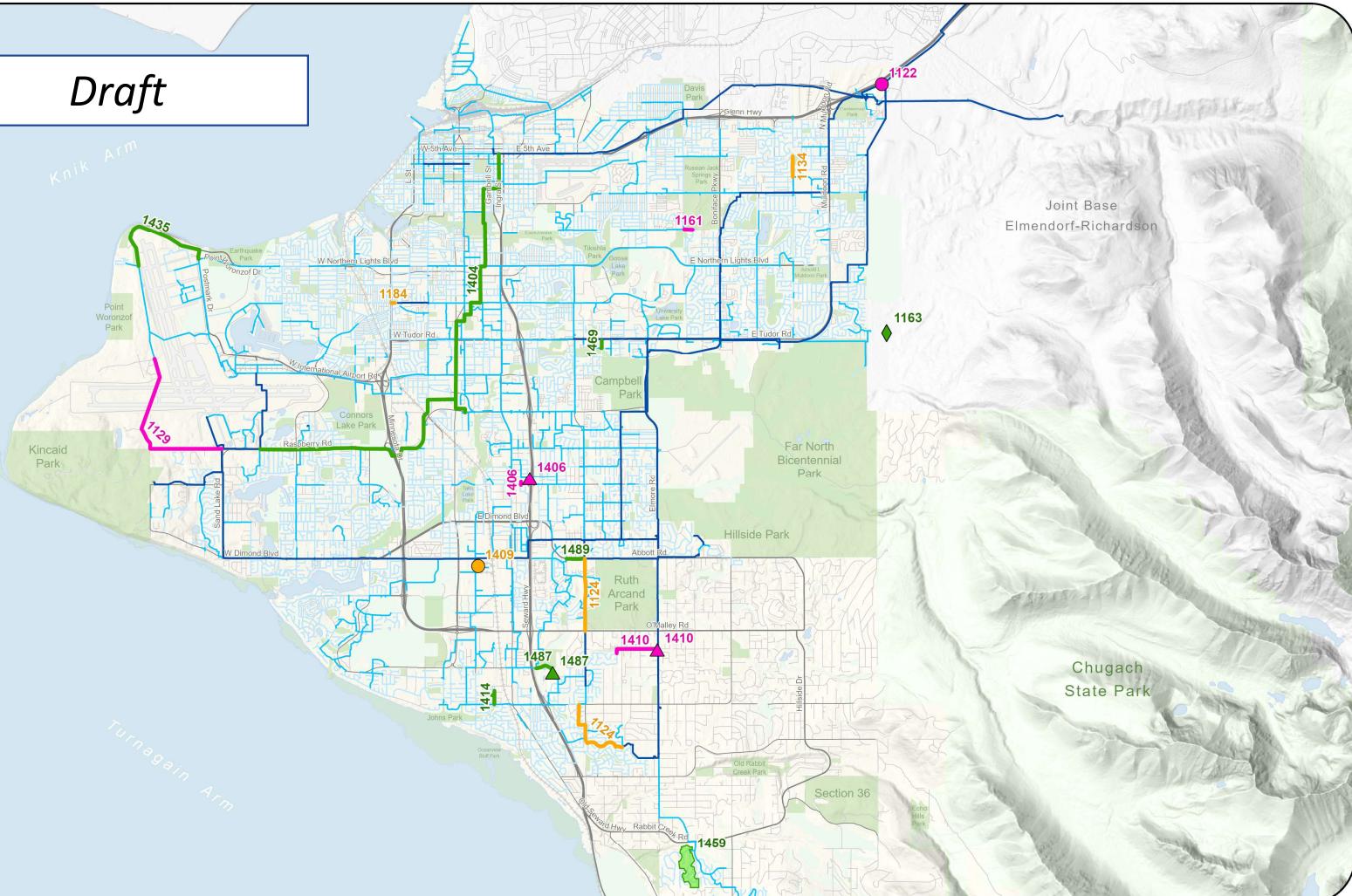


## ANCHORAGE Capacity Improvement & System Optimization



Projects
Year 1 to 5
▲ PRV
◆ Reservoir
Year 6 to 10
● Other
Year 11 to 20
▲ PRV
● Other
Main
— Year 1 to 5
— Year 6 to 10
— Year 11 to 20
Area
■ Year 1 to 5
Pipes
— ≤10 inch
— 12-20 inch
— ≥24 inch

Draft





# Municipality of Anchorage

## Anchorage Water and Wastewater Utility

### 2025 Water Master Plan



# **NORTHERN COMMUNITIES**

Capacity Improvement  
& System Optimization



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**Projects**

**Year 1 to 5**

-  Booster
-  Well
-  Other

**Year 6 to 10**

-  Reservoir
-  Other

**Year 11 to 20**

-  PRV
-  Reservoir
-  Other

**Main**

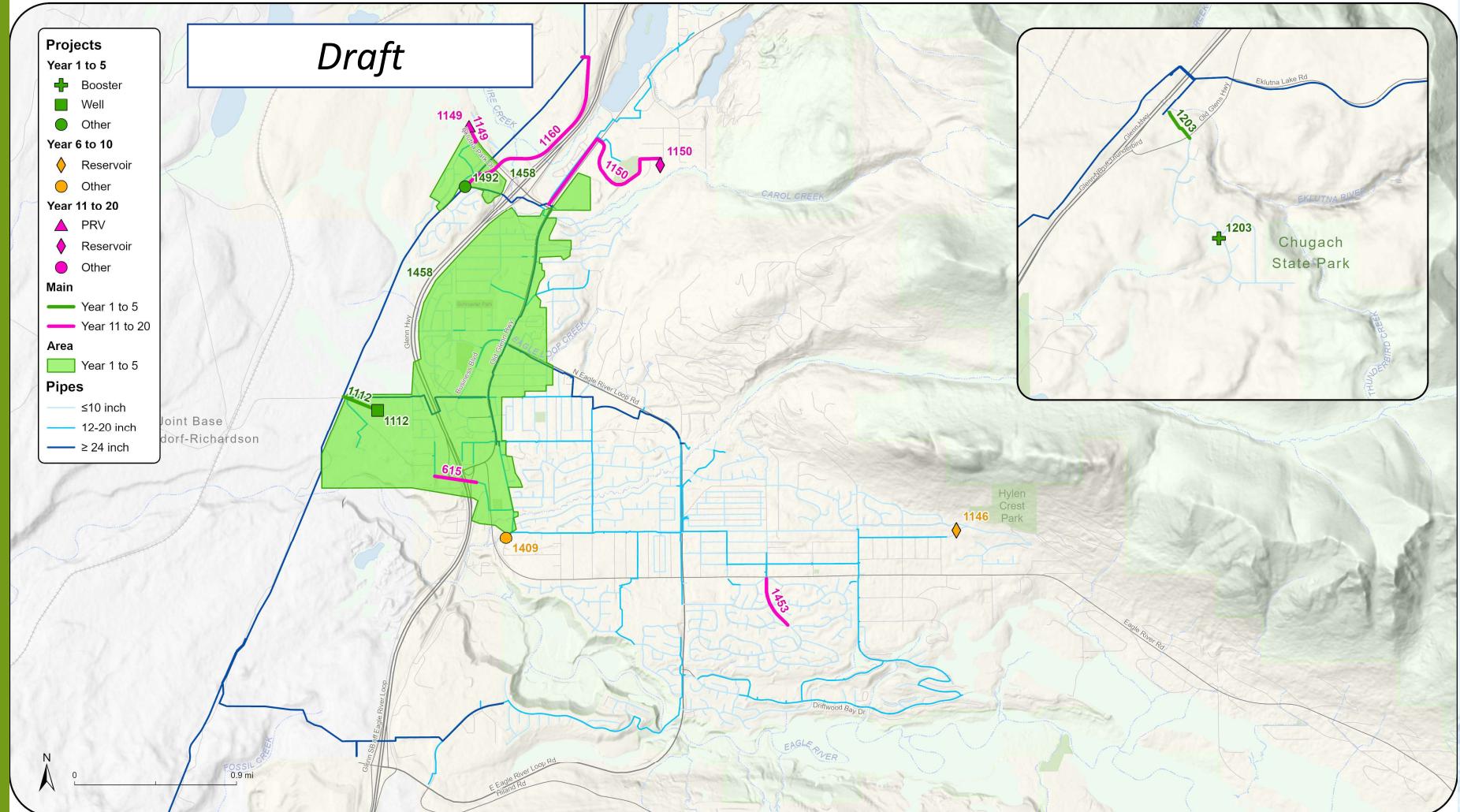
-  Year 1 to 5
-  Year 11 to 20

**Area**

-  Year 1 to 5

**Pipes**

-  ≤10 inch
-  12-20 inch
-  ≥ 24 inch





# Municipality of Anchorage

Anchorage Water and Wastewater Utility  
2025 Water Master Plan



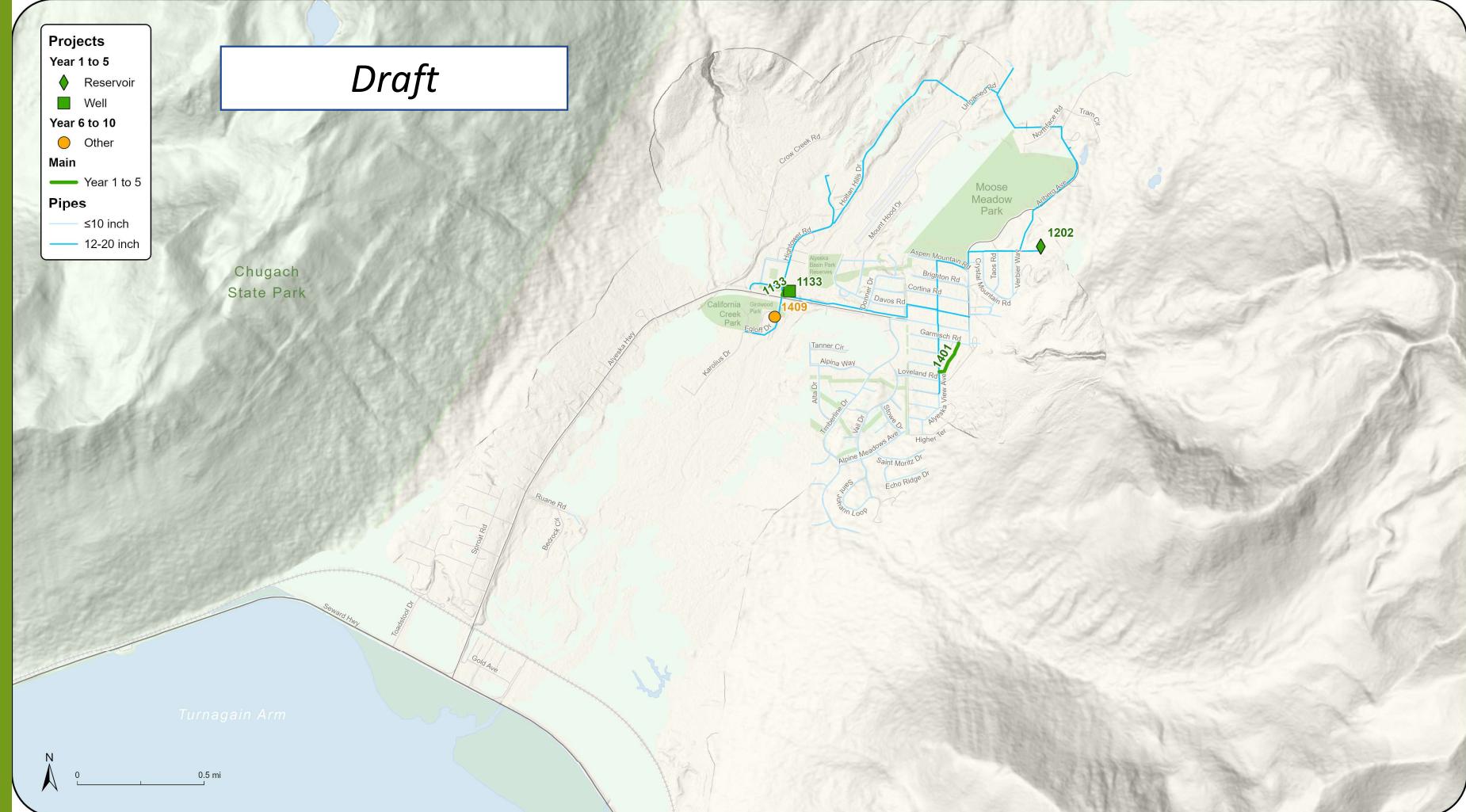
## GIRDWOOD

Capacity Improvement  
& System Optimization



Projects
Year 1 to 5
Reservoir
Well
Year 6 to 10
Other
Main
Year 1 to 5
Pipes
≤10 inch
12-20 inch

Draft



# SCHEDULE

ANCHORAGE WATER &  
WASTEWATER UTILITY  
3000 ARCTIC BLVD





# AWWU WATER MASTER PLAN



## Stakeholder Outreach Meetings November – December 2025

- Anchorage Community Development Authority
- Girdwood Board of Supervisors
- Heritage Land Bank Advisory Committee
- AMATS Technical and Policy Committees
- AFD
- MOA Planning, PM&E
- DOT





## AWWU WATER MASTER PLAN



### Next Steps

- Publish Final Plan – February 2026





QUESTIONS?

THANK YOU

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<https://awwumasterplan.com>

AWWU WATER MASTER PLAN UPDATE

