



Water Plant  
Transmission Mains



Home Road  
Water Plant

# Home Road Water Plant and Water Plant Transmission Mains

Public Meeting 2 | December 3, 2024

# Welcome

**Tim Huffman, P.E.**

Division of Water - Distribution Engineering Manager  
City of Columbus Department of Public Utilities



# Your Facilitator

**Marie Keister, AICP, APR**

**Stakeholder/Public Engagement, MurphyEpson**



# Meeting Agenda



- Welcome and introductions
- Brief recap
- Home Road Water Plant overview and updates
- Water Plant Transmission Mains overview and updates
- Facilitated question and answer session
- Adjourn to information stations

# Discussion Ground Rules

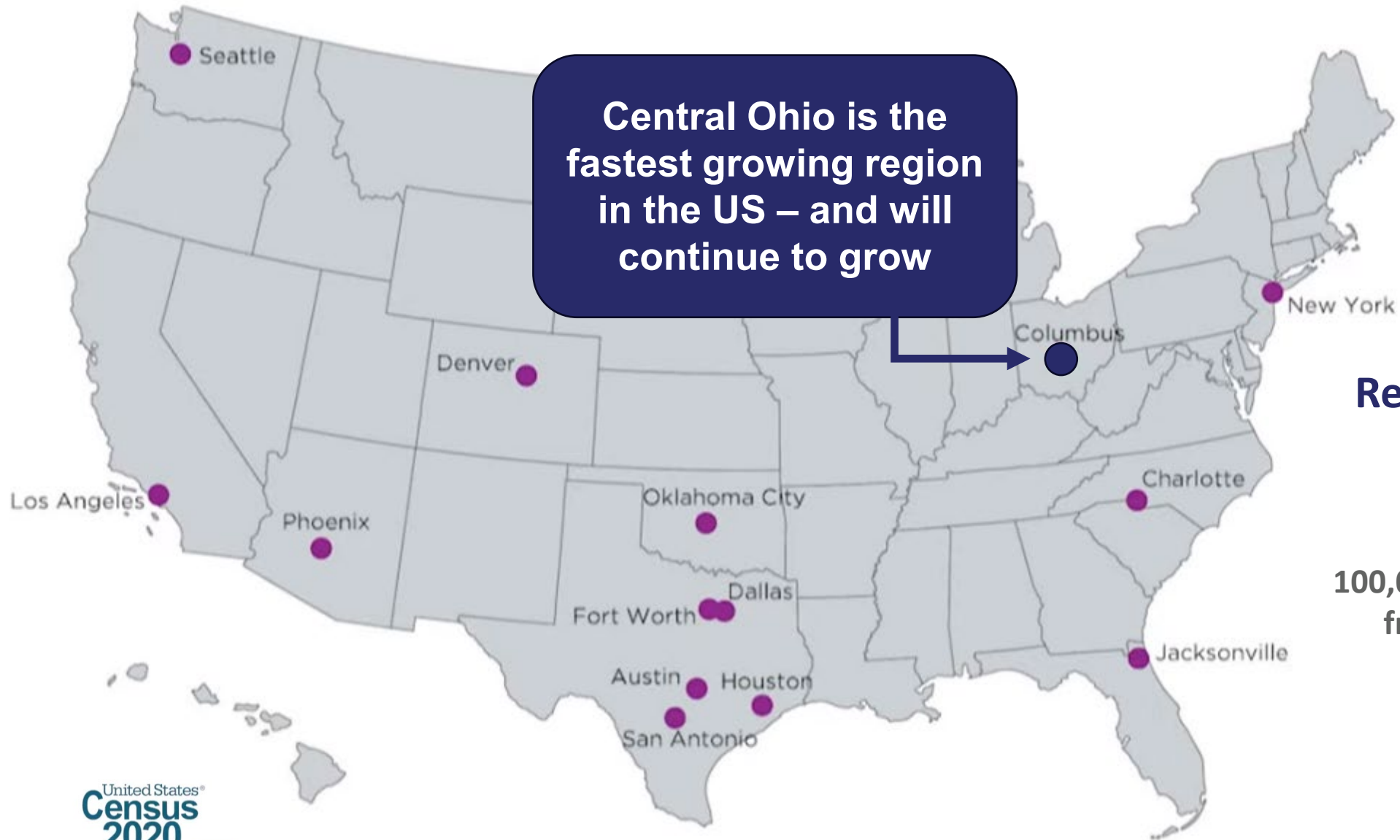


- When we open for questions, please raise your hand so we can address each question or comment in order
- Be succinct so we get to everyone
- Save questions specific to your property or areas in front of your property for one-on-one conversations with the project team
- It's okay to disagree; please be respectful, polite and kind

# Recap: The Need for a New Water Plant and Transmission Mains

**Bret Casey, P.E., BCEE**

Project Manager, Hazen and Sawyer



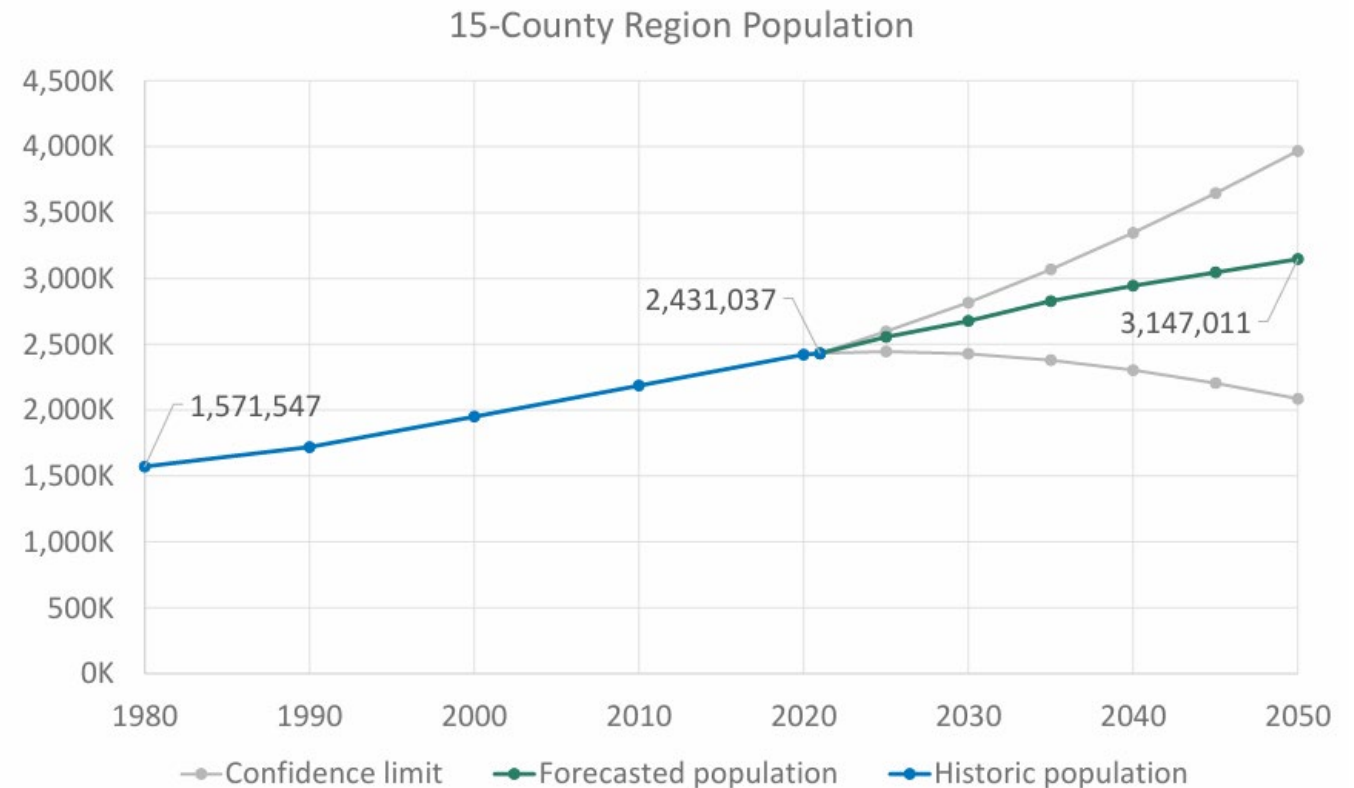
## Regional Growth Support

Cities with a 100,000+ population gain from 2010 to 2020

# Regional Growth Forecast



- The 15-county Central Ohio region is on track to reach nearly 3.15 million residents by 2050, a small uptick from previous projections





# We've Planned This Since 1998



We need additional water capacity to serve this continued growth and to increase reliability and resiliency across the water system supply

- Three existing water plants supply an average of 145 million gallons daily
- The Water Beyond 2000 Report issued in 1998 called for a fourth plant
- The Master Plan, updated every 10 years, continued to call for the new plant



# Home Road Water Plant



# Water Plant Update



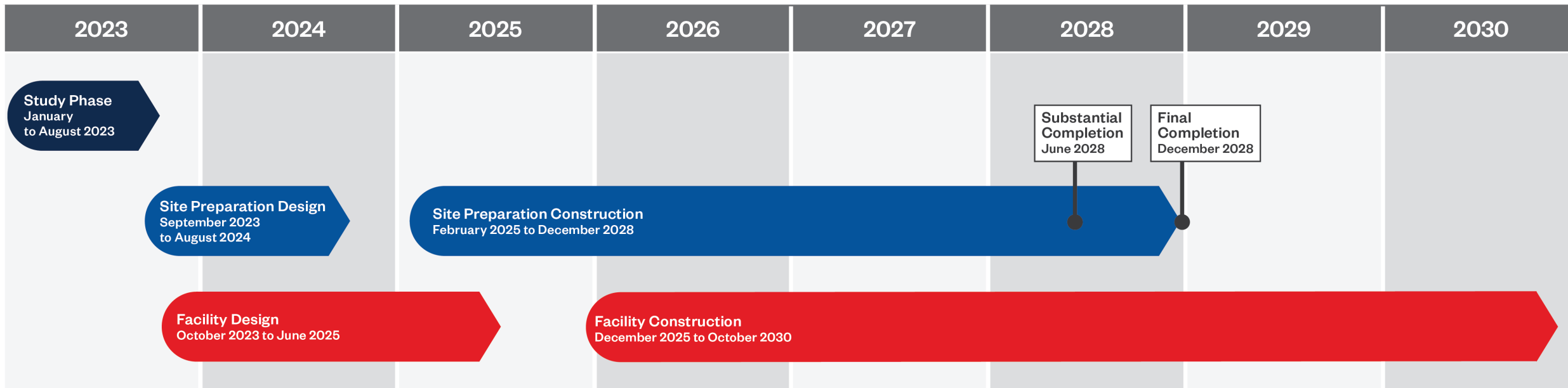
# Project Phases & Schedule



The Home Road Water Plant will be constructed in two phases:

1. Site Preparation

2. Water Plant Facility



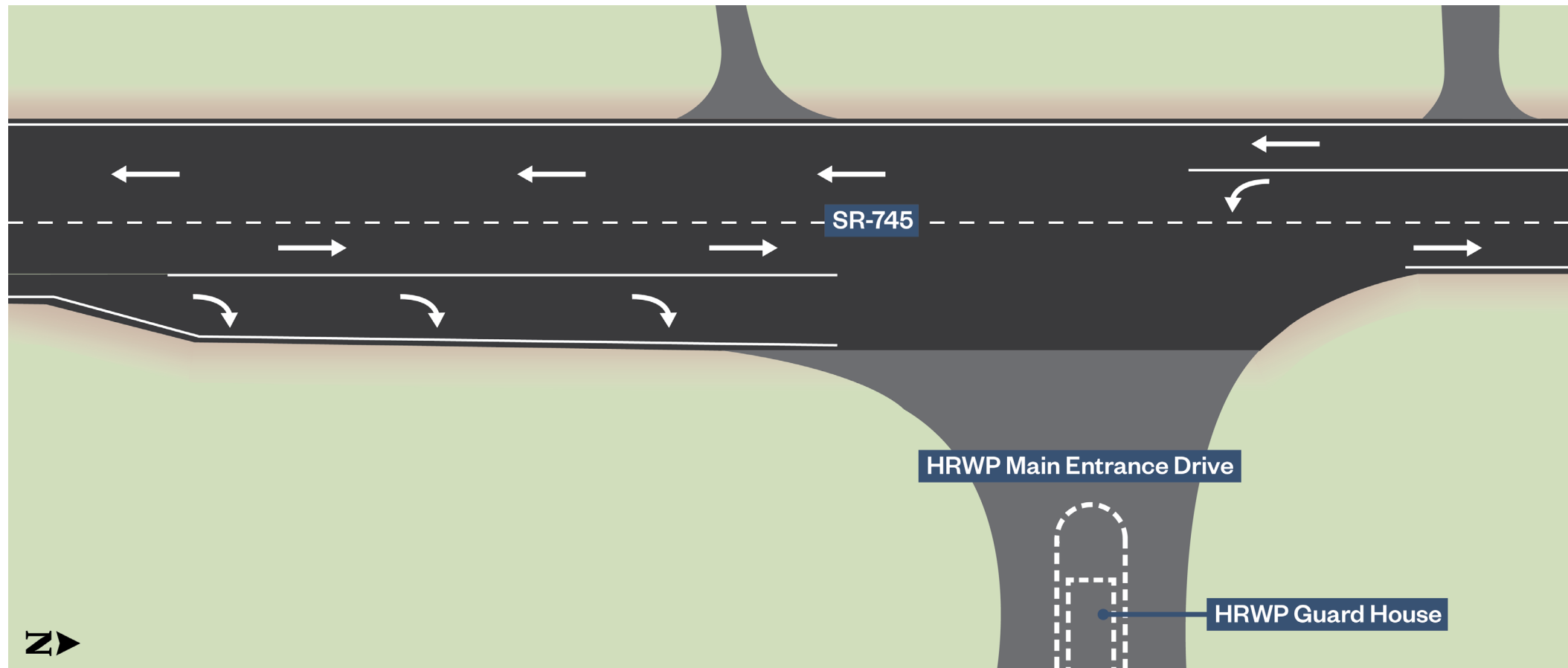
# Site Preparation

# Site Preparation Contract



- Construction Contract
  - Bid date: November 6, 2024
  - Expected construction start: Feb/Mar 2025
- Rock Excavation
  - Engineered, controlled blasting
  - An informational meeting will be held before blasting activities
  - Well survey prior to start – Private wells within 2000’ of plant excavation
- Tree Removal
  - Per Columbus policy, live trees will be removed and replaced with non-invasive trees
  - Affects trees on-site, along O'Shaughnessy or other locations
- Power Supply
  - First Energy transmission line to the quarry site
  - Route and timeline to be determined

# SR 745 Turn Lanes





# Cemetery Preservation Efforts



- Preserved and protected throughout the project
- Access
  - Dedicated access following construction
  - Access by appointment only during construction





# Site Preparation Contract



## ■ Construction

- **Estimated Work Hours:** 7:00 AM to 7:00 PM, Monday to Saturday
- **Light & Noise:** Utilizing the City of Columbus ordinances
- **Dust Control:** Required during construction

## ■ Site Safety & Security

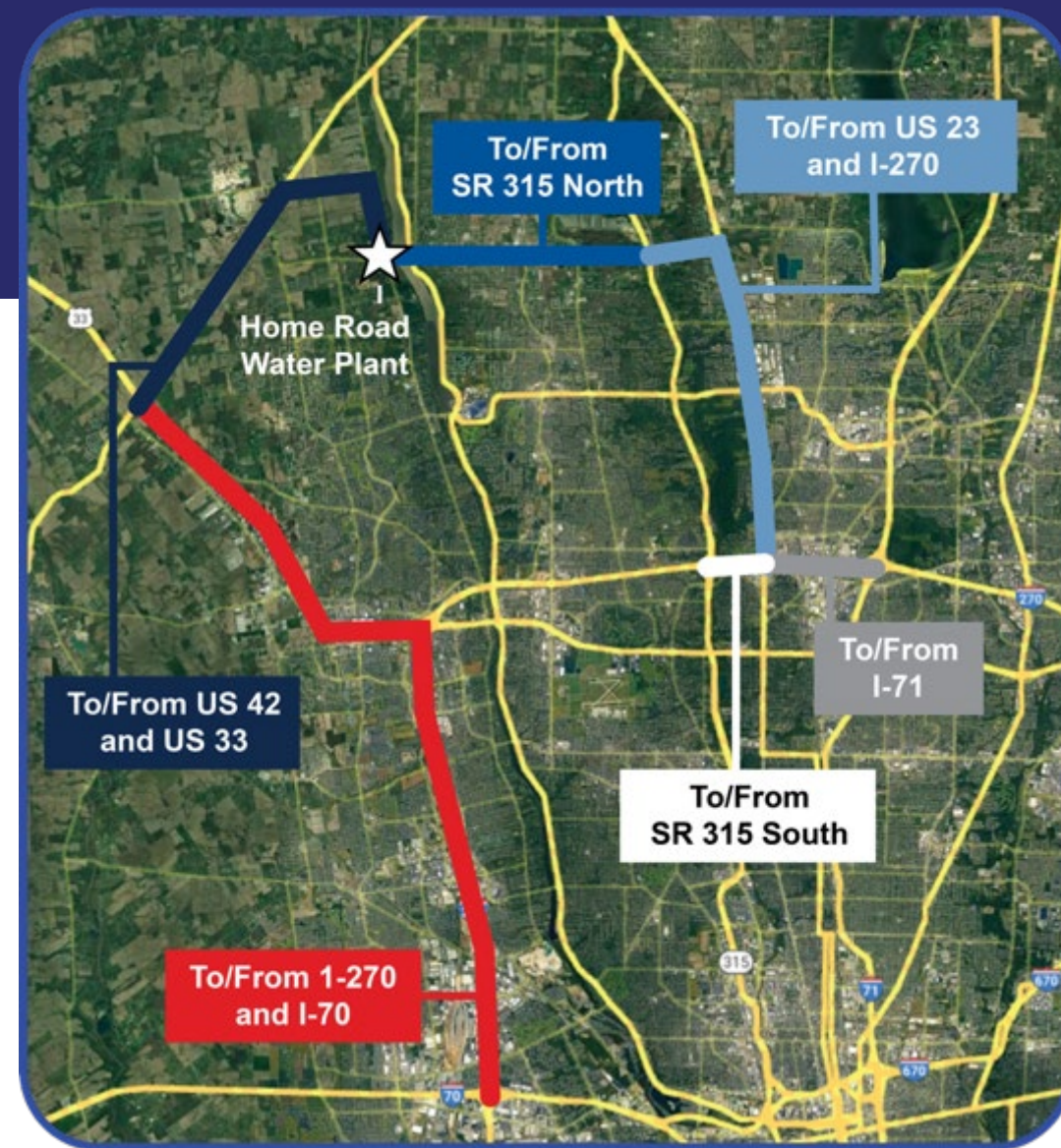
- Controlled access at all entrances
- Cemetery access by appointment only

## ■ Truck Traffic Routes

- No planned use of township roads

# Access to the Home Road Water Plant

- Major access routes to Home Road Water Plant
- Minimize the use of local roadways





# Traffic Routes to Existing Quarries

- US 42
- State Route 745 (Dublin Road)
- County roads
  - Home Road
  - Moore Road
  - S. Section Line Road



# Home Road Water Plant



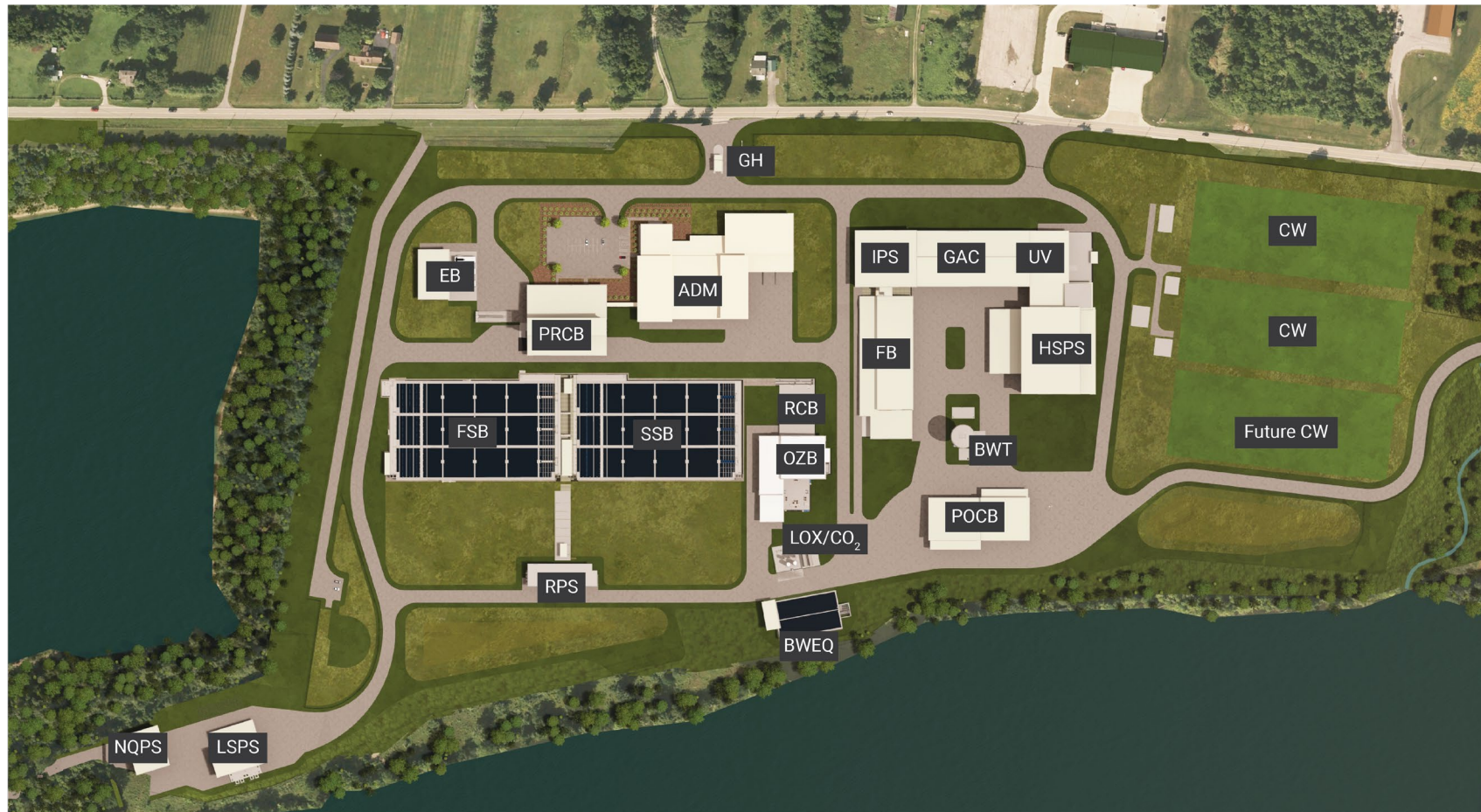
# Treatment Approach



- Similar treatment process to Columbus' two other surface water plants.
- Granular Activated Carbon (GAC) treatment for removal of potential emerging contaminants
- Use of north quarry cell for additional water supply



# Home Road Water Plant – 48 Million Gallons per Day



Key	
ADM	Admin Building
BWEQ	Backwash Equalization Tank
BWT	Backwash Supply Tank
CO2	CO2 Storage
CW	Clearwells
EB	Primary Electrical Building
ESS	138 kV Electrical Substation
FB	Filter Building
FSB	First Stage Clarification
GAC	Granular Activated Carbon
GH	Guard House
HSPS	High Service Pump Station
IPS	Intermediate Pump Station
LOX	Liquid Oxygen
LSPS	Low Service Pump Station
NQPS	North Quarry Pump Station
OZB	Ozone Contact Basins
PAC	Powdered Activated Carbon
POCB	Post Treatment Chemical Building
PRCB	Pretreatment Chemical Building
RCB	Recarbonation Basins
RPS	Residuals Pump Station
SQD	South Quarry Decant
SSB	Second Stage Softening
UV	UV Disinfection



# Home Road Water Plant

## Quarry Site Layout

Subject to Design Changes





# Sustainability



# Sustainability Efforts



- Support Sustainable Columbus:
  - Stream restoration and wetland preservation
  - Solar energy and electric vehicle charging stations
  - Stormwater management
  - Pursuing certifications for using sustainable design practices



ENVISION



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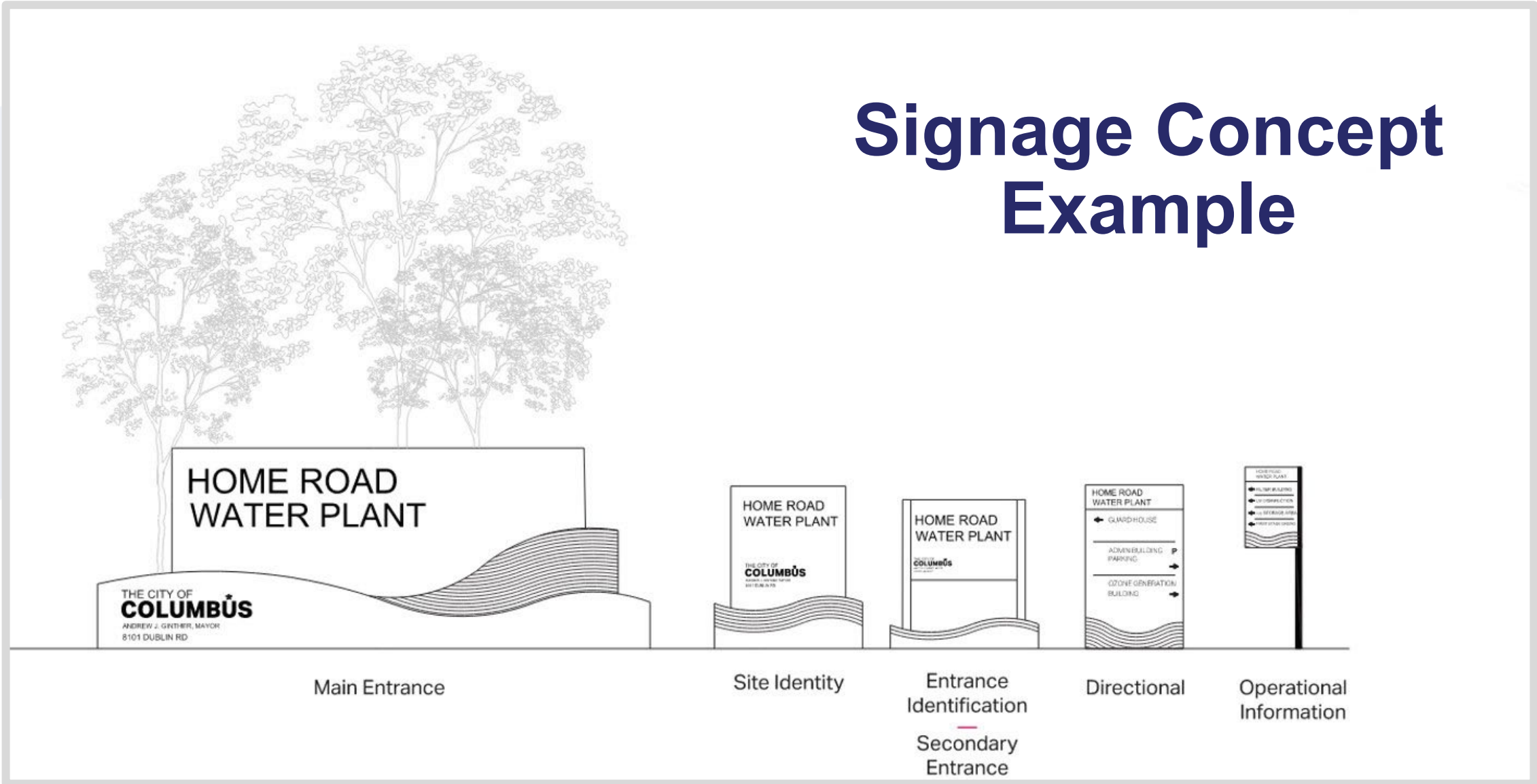
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THE CITY OF  
**COLUMBUS**  
ANDREW J. GINTHER, MAYOR  
DEPARTMENT OF  
PUBLIC UTILITIES

# Architecture



# Signage Concept Example



# Administration Building (Southwest View)





# Administration Building (Northwest View)





# Administration Building (Southeast View)



# Administration Building (Northeast View)

















# HRWP Flyover 2\_12-2-24



# Water Plant Transmission Mains



# Project Update

**Matt Casey, P.E.**

Project Manager, ms consultants



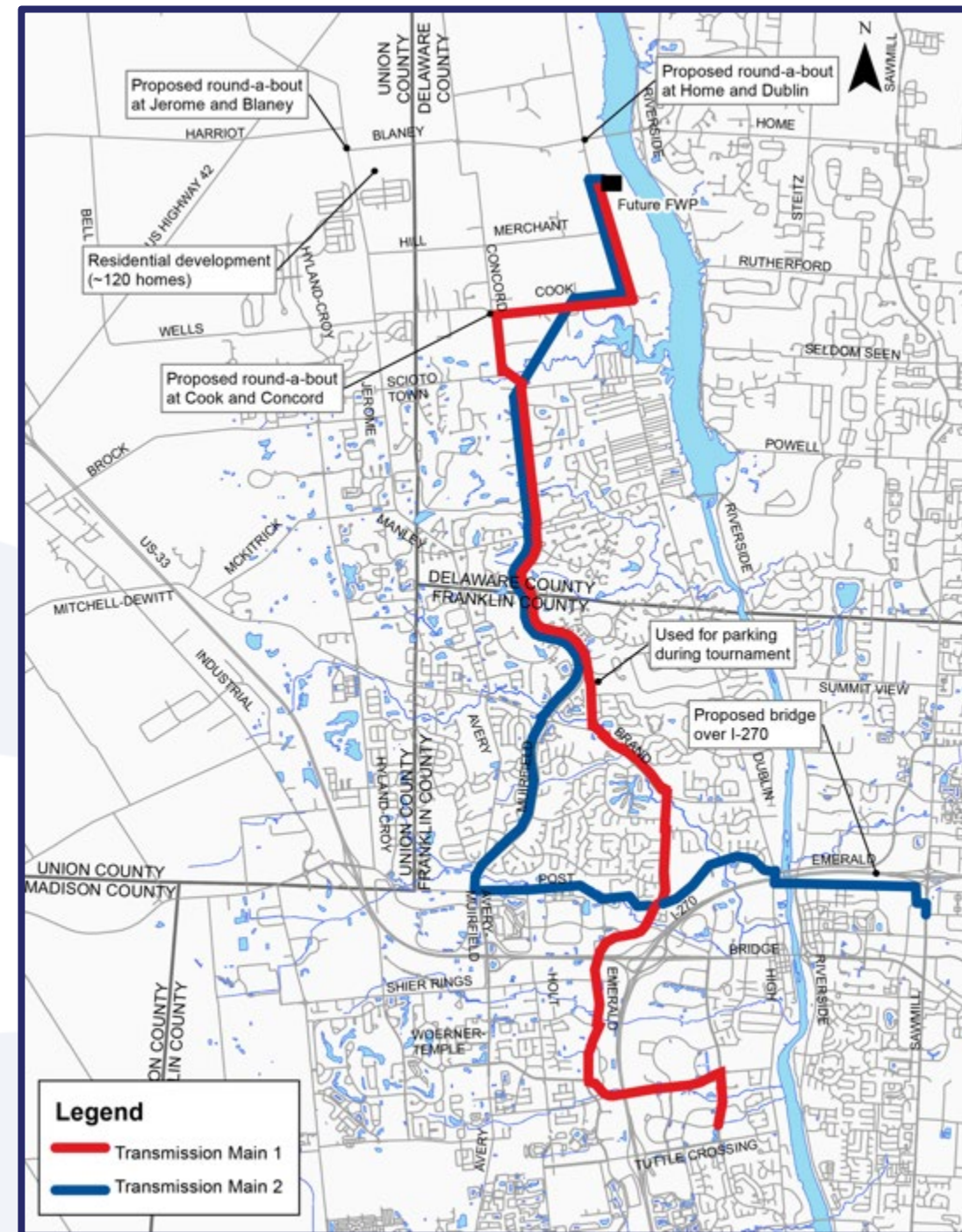
# Transmission Mains Goals



- Select the most technically feasible, reliable, resilient and constructible routes
- Work with local governments to coordinate projects and investments in the same space for mutual public benefits
- Be transparent with the public
- Minimize disruptions to the extent possible
- Communicate, communicate, communicate! [cbuswater.com](http://cbuswater.com)

# Two Recommended Corridors Shared in June

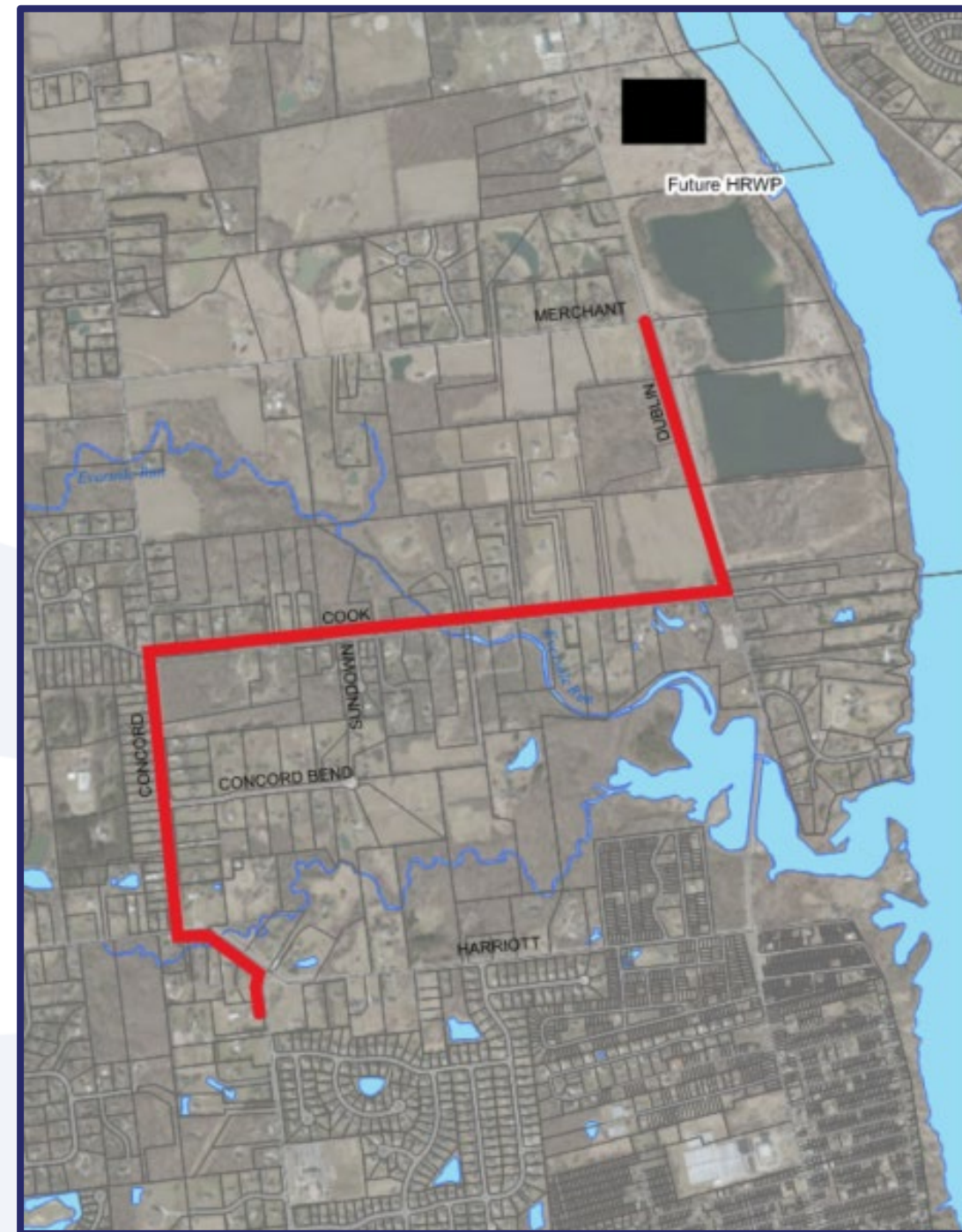
- We analyzed and researched your questions and comments
- Comments and technical work helped us narrow from corridors to preliminary alignments
- We have completed 30% of the design
- There is still time for your input and continued refinements





# Your Comments about Cook Road

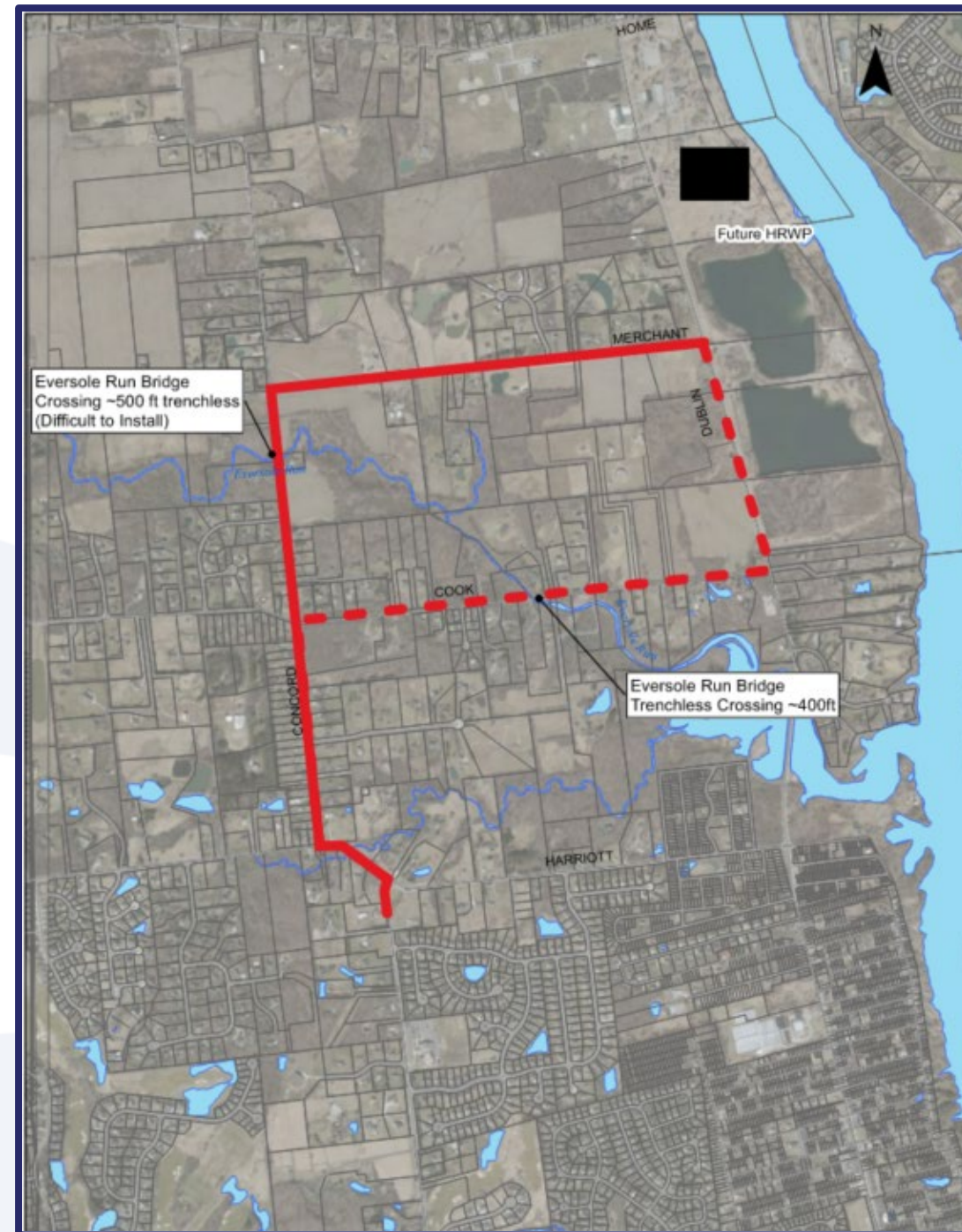
- Concerns about tree impacts/potential removal
- Flooding concerns if Cook is torn up. Consider Merchant or AEP corridor.
- Owners may want to build on their lot and can't give an easement
- Concerns about duration and type of traffic impacts, particularly on Cook and getting to/from Sundown
- Concerns w/ streams & green space. Why not put both pipes in AEP easement and avoid Cook?
- Concerns about impacts to an owner's pond
- Concerns about property access during construction
- Owner thinks mains should go down Merchant
- What is the goal of the project?





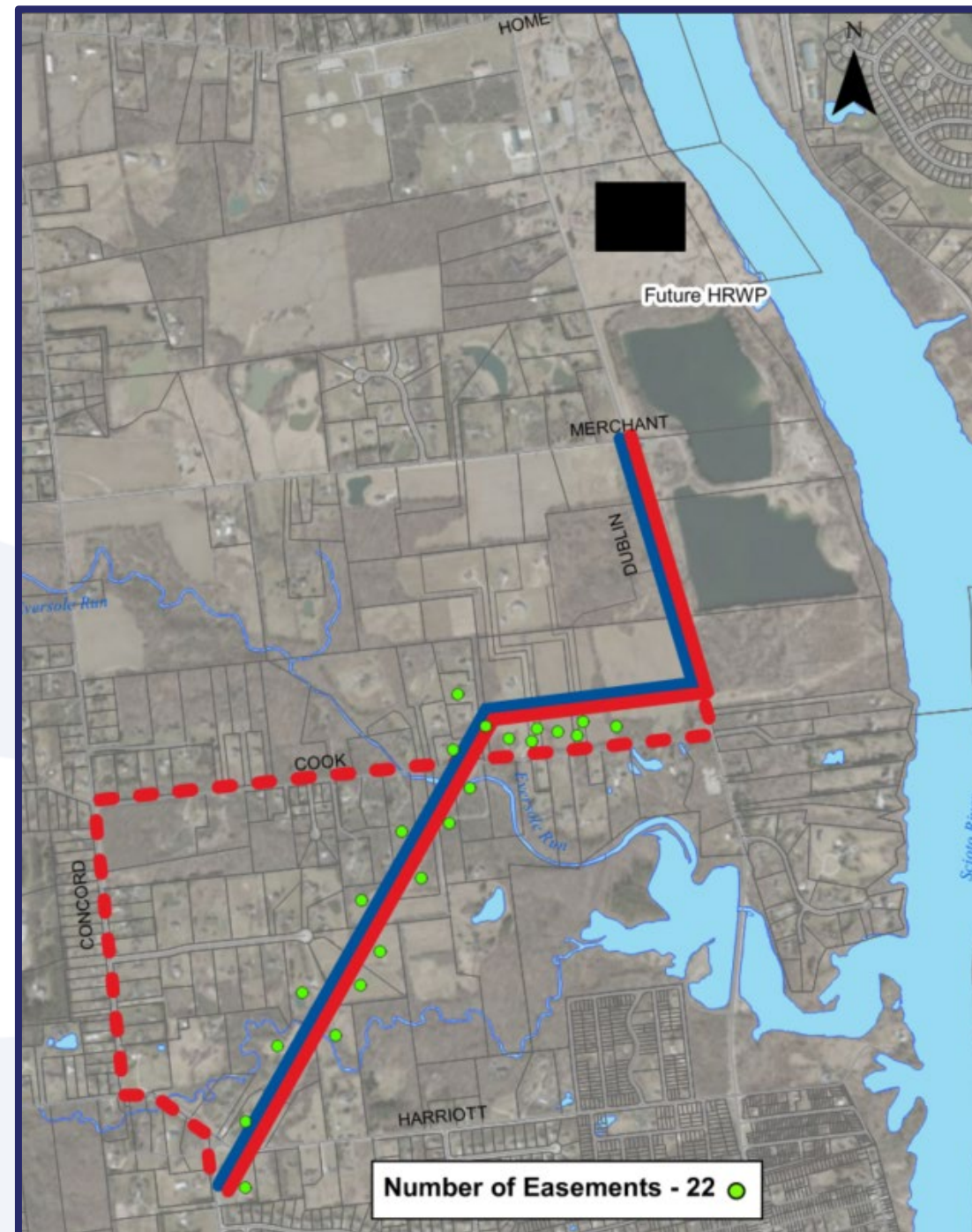
# Why Cook and Not Merchant Road?

- Merchant
  - Costs \$3.8M more than Cook
  - 2,400 feet more township right-of-way (ROW) disturbed
  - Is a potential First Energy corridor
  - Trenchless on Concord is riskier than on Cook
- Cook
  - 2,600 feet of pipe will be on plant property, not in public ROW
    - Anytime you can put infrastructure on the property you own, you reduce the risk of it being hit by a third party



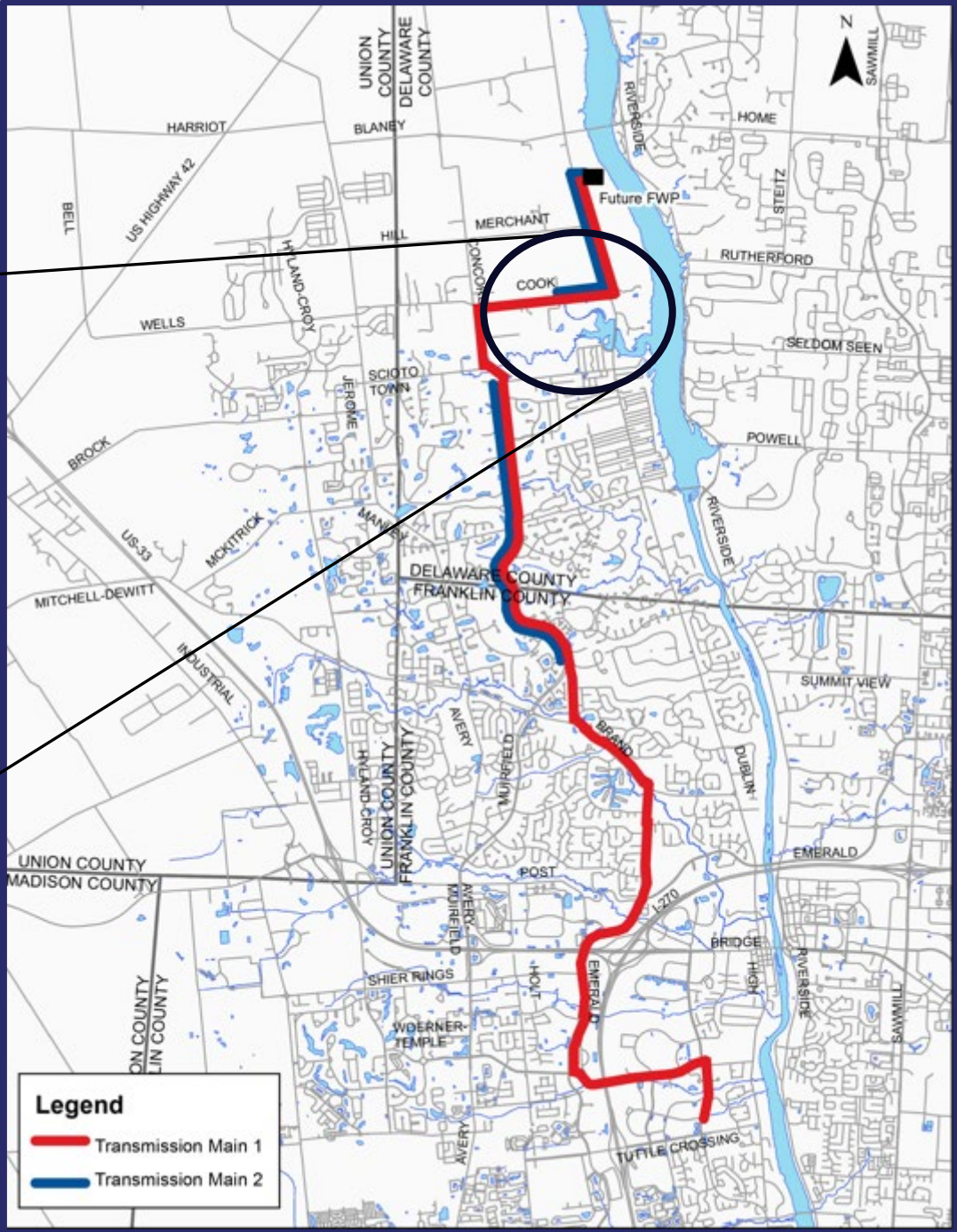
# AEP Easement – Pros and Cons

- PRO: Cost. Generally, can get both mains constructed for the cost of one on Cook
- PRO: Lesser risk
- PRO: Least amount of impact on residents and traffic in the area
- PRO: Least amount of tree impact
- CON: Wouldn't make original 2028 deadline...but now extended



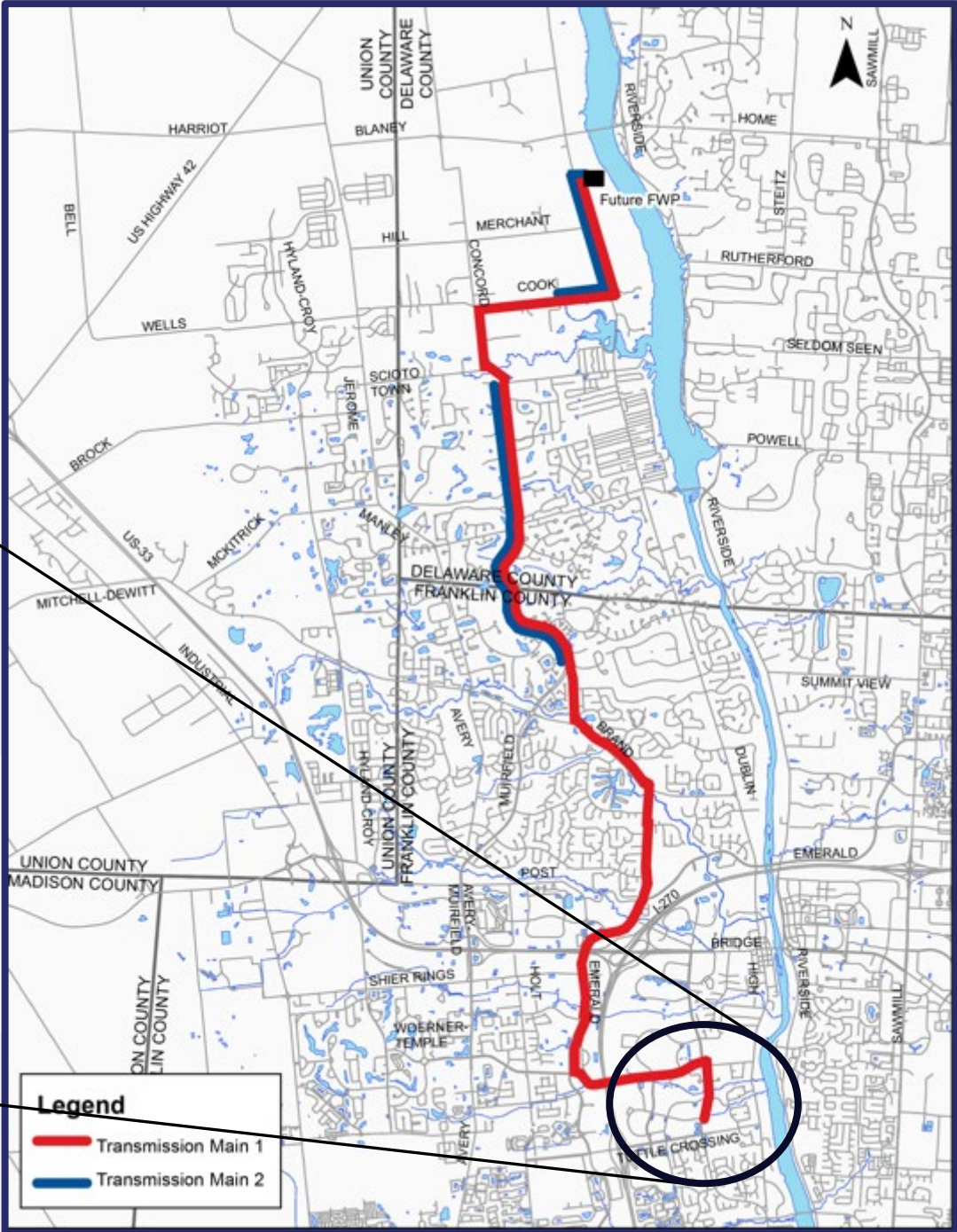


# 30% Recommended Corridor





# Southern Connection



# Your Questions About Easements



- Questions: How will my property be affected? Will you need an easement? I have a small lot.
- Answer:
  - If an easement is necessary, you will be contacted once we have detailed construction drawings (later in the design phase)
  - We follow Ohio Revised Code requirements for easements
  - We won't know exact property impacts until we get to more detailed plans (75% design)
  - See the FAQs on the website for more information



# Your Questions About Alignments



- Questions: How will transmission main construction affect the bridges on Ashbaugh and Coffman near Brand Road? Which side of the road will the alignments be on?
- Answers:
  - Since June, we have identified specific alignments to share with you today
  - You'll see how we are avoiding existing bridges, trees and other structures
  - We have completed 30% of the design; your input today will help us progress to 75% completion

# Your Questions About Trees



- Questions: Will you preserve trees? Will you damage roots?
- Answers:
  - Most of the alignments will be in public ROW, allowing us to avoid removing trees
  - We will follow local policies to replace trees when we need to remove them
  - The next stage of design will explore how best to avoid tree roots
  - The City of Columbus has a full-time arborist to oversee tree impacts and guide replacement where needed

# Your Questions About Access and Traffic



- Questions: Will I be able to access my property during construction?
- Answers:
  - Access to your property will be maintained, with possible brief exceptions that will be communicated in advance
  - Maintenance of traffic plans will be developed with local officials
  - Before construction, we will convene a public meeting and update the website to share detour routes, access details and a high-level construction schedule
  - During construction, there will also be signage, web, and email updates to keep you informed

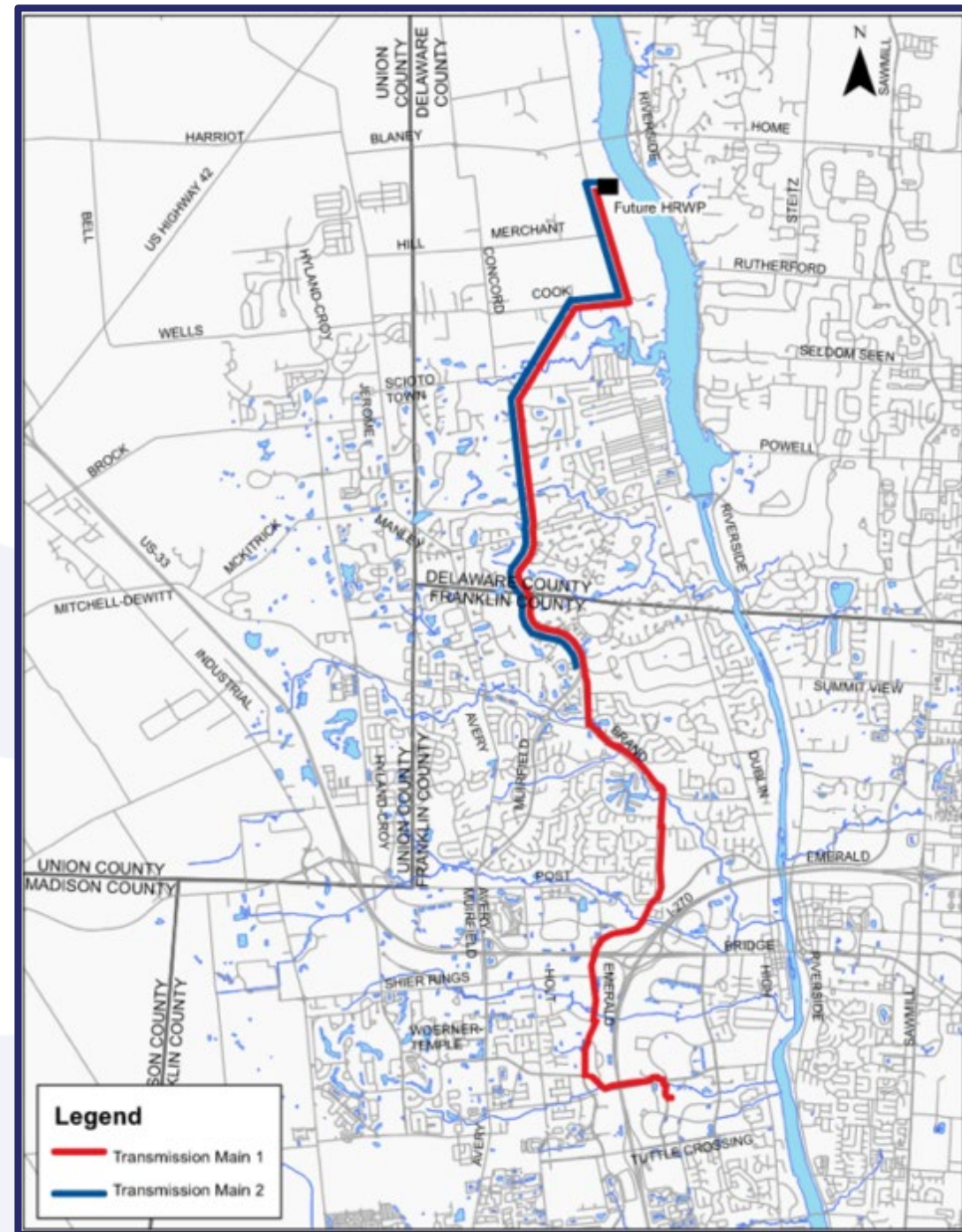
# Your Questions About Flooding and Impacts to Ponds



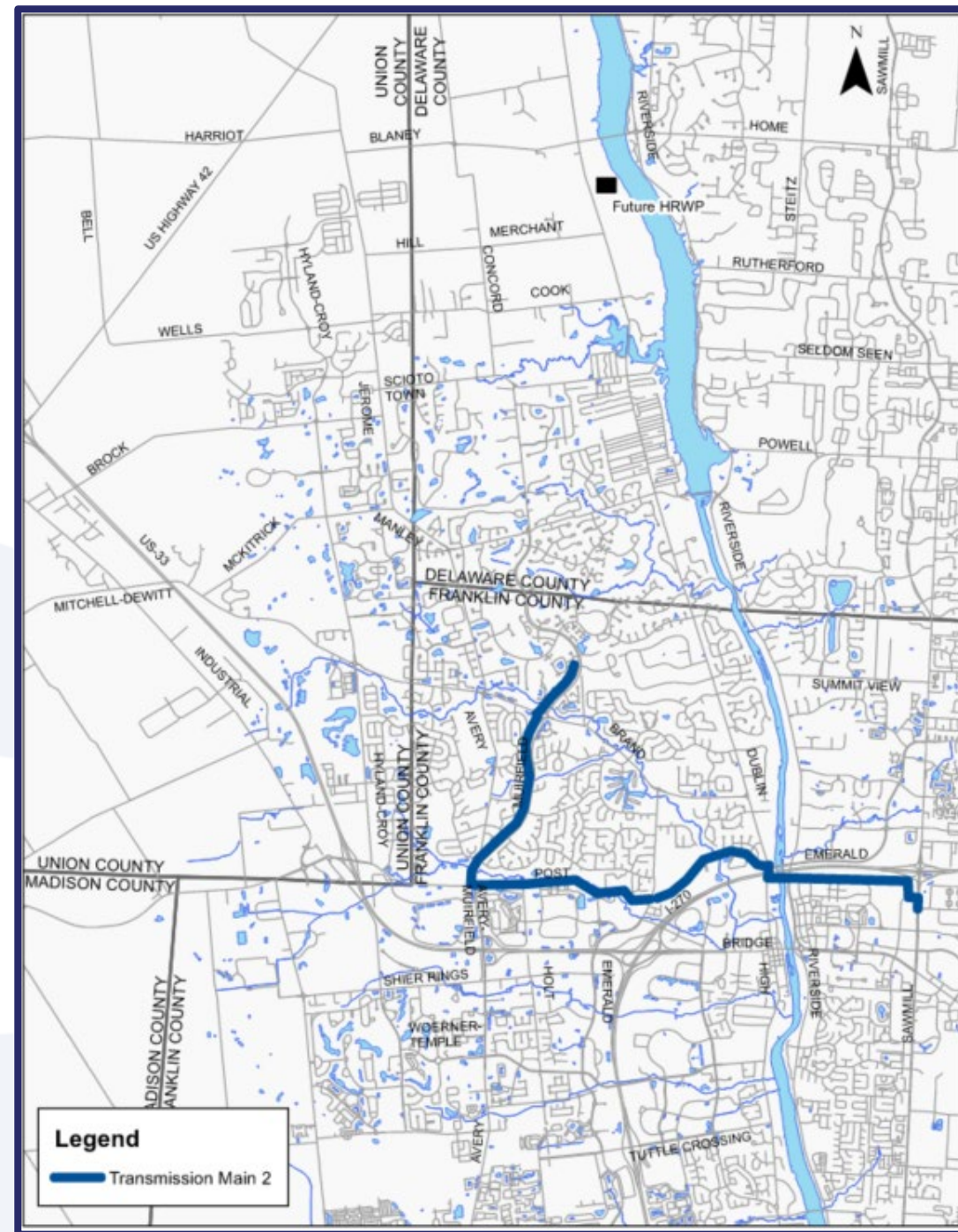
- Questions: Will the alignment on Cook Road increase flooding risk or impact my pond during construction or after?
- Answer:
  - The alignment on Cook has been moved to the AEP corridor
  - We will restore surface features to pre-construction conditions
  - There are local ponds in the AEP corridor, and we will work with those property owners to not impact them



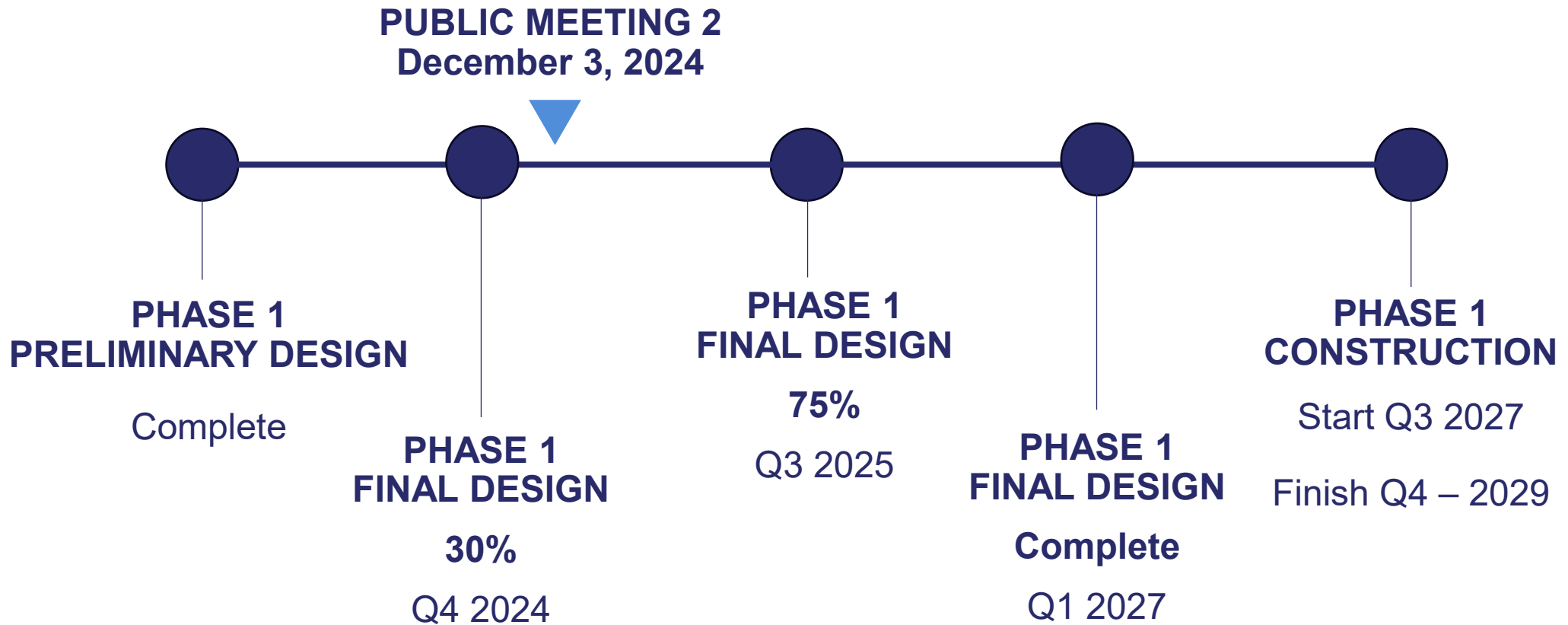
# Phase 1



# Phase 2



# Schedule at a Glance





# Next Steps



- Digest the input we receive tonight to finetune the alignments
- Continue survey, geotech borings, sub-surface evaluations and field walks
- Convene jurisdictional meetings, as needed
- Meet with property owners, as necessary
- Coordinate construction with local capital improvement programs
- Public meetings at 75% design, 90% design and immediately before construction

# Public Outreach

**Marie Keister, AICP, APR**

Public Information/Engagement



# Public Outreach to Date



- Website  
<https://cbuswater.com>
- Mailed postcards
- Business cards
- Pop-up engagement
- Literature drops at libraries and community centers





# Meeting Materials Available Online Soon



- Presentation will be available on the project website on December 4
- More public meetings will be held before construction begins
- Frequently asked questions online will be updated continually

# Your Questions (High-Level)



# Discussion Guidelines



- Raise your hand so we can address each question or comment in order
- Be succinct in your comment or question so we can get to everyone
- Save questions specific to your property for one-on-one conversations with the project team
- It's okay to disagree; please be respectful, polite and kind



# Information Stations



# How You Can Help Us Finalize Transmission Main Alignments



- Identify your property at the information station maps or on a comment form (team members will help you)
- Let us know where you have:
  - A septic tank, wells
  - Underground utilities such as dog fences, lighting or sprinklers
  - Mature trees and landscaping
  - Other concerns

# Water Plant Station



- Watch the flyover again
- See the latest plans and let us know your thoughts



# Thank You

Contact us at [cbuswater@columbus.gov](mailto:cbuswater@columbus.gov)

Visit the project webpage at <https://cbuswater.com>

