



Town of Lincoln Water District Extension No. 1

Public Information Meeting

Roberts Street Elementary School

April 4, 2023

Barton & Loguidice, D.P.C.

Taylor Bottar, P.E.

Benjamin Girard, I.E.

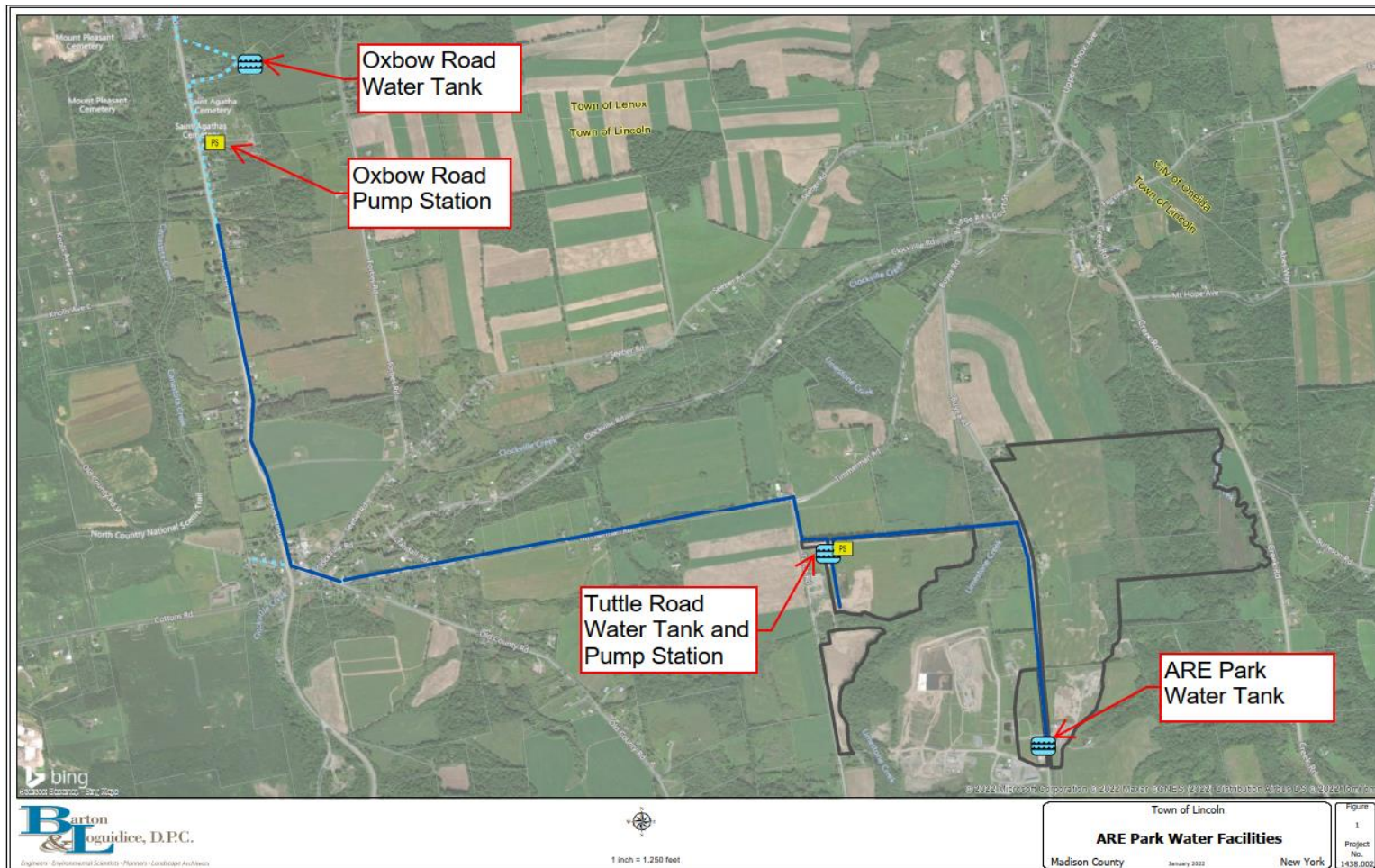
Existing Water Infrastructure Concerns

- Shallow individual wells
 - Low water yields
 - Contamination risks (surface water impacts)
 - Seasonal drought concerns
- Potential water quality concerns
- Lack of fire protection



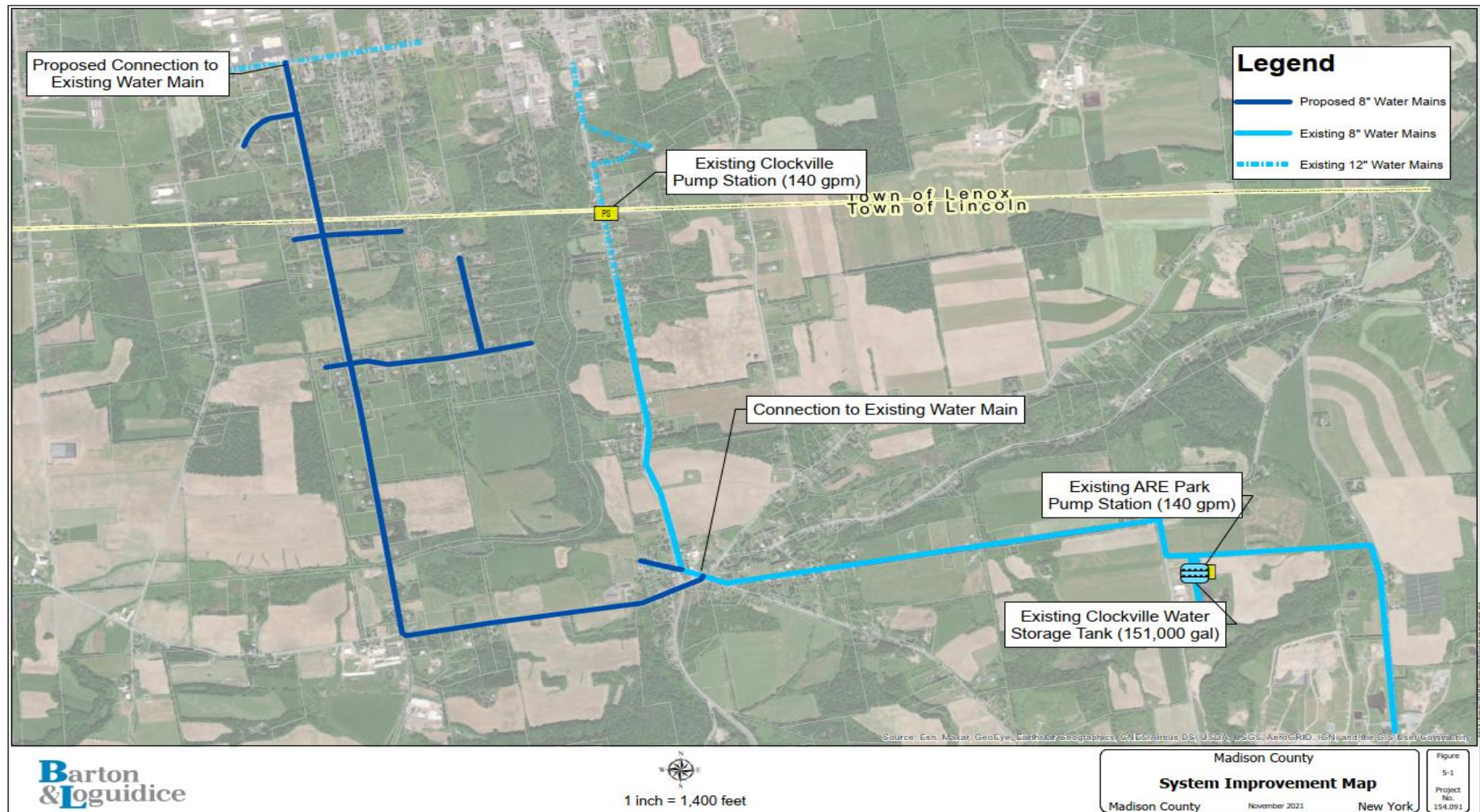
ARE Park System (2017)

- Clockville Water Tank fed by Canastota Tank and Pump Station
- ARE Park Water Tank fed off of Clockville Tank and Pump Station
- Two (2) pressure zones present in existing system



Clockville Water District Extension No. 1 (2021)

- Two (2) connection points to existing system, Rt. 5 and Oxbow Rd.
 - Users fed off of the Clockville Water Storage Tank and the Canastota Tank
- OCWA is responsible for system O&M



Preliminary Engineering Report to serve as basis of future grant funding

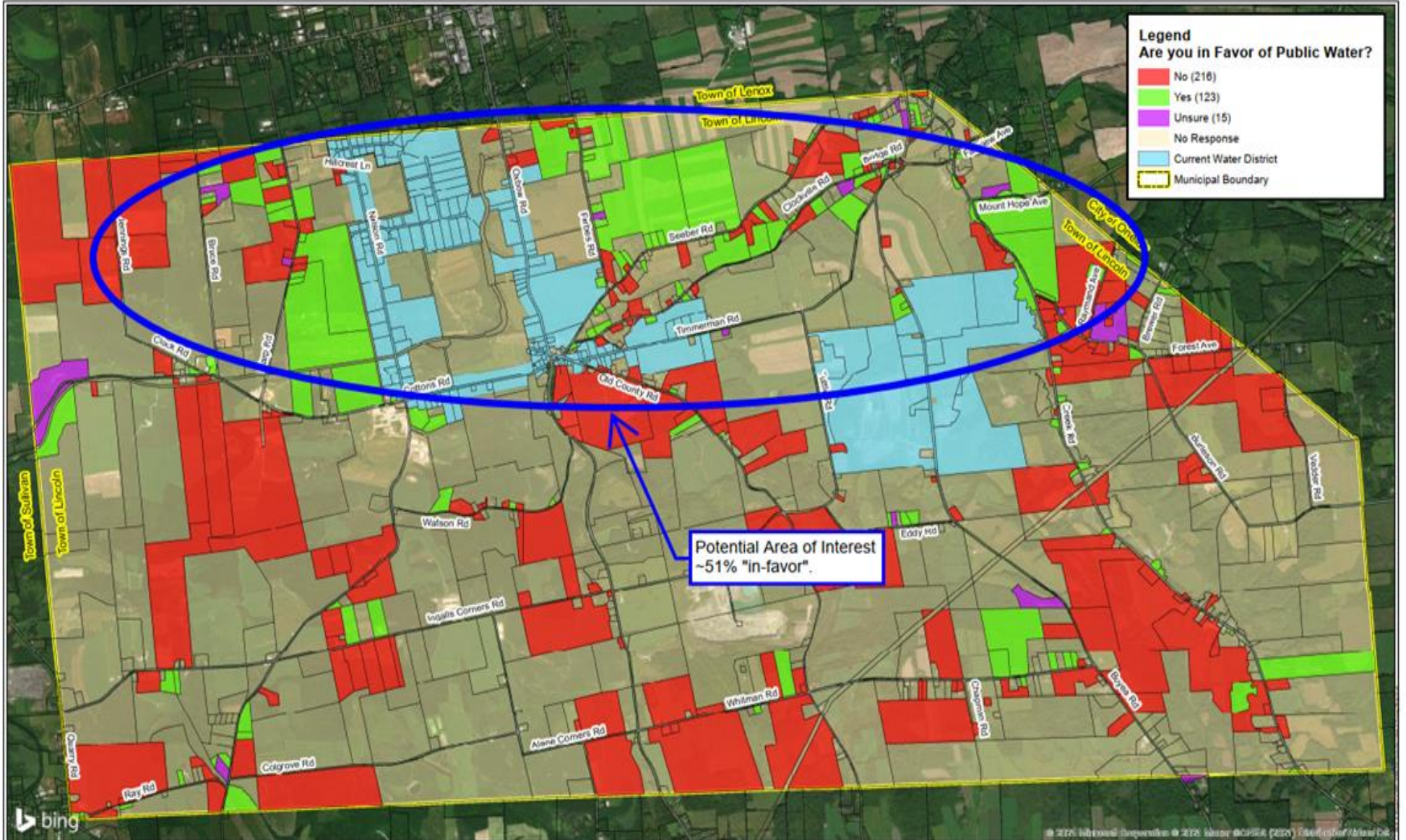
- Interest survey
- Alternative maps/costs
- Plan of finance
- Report (as required by funding agency)

Initial Investigation

- Areas included in study based on public interest survey



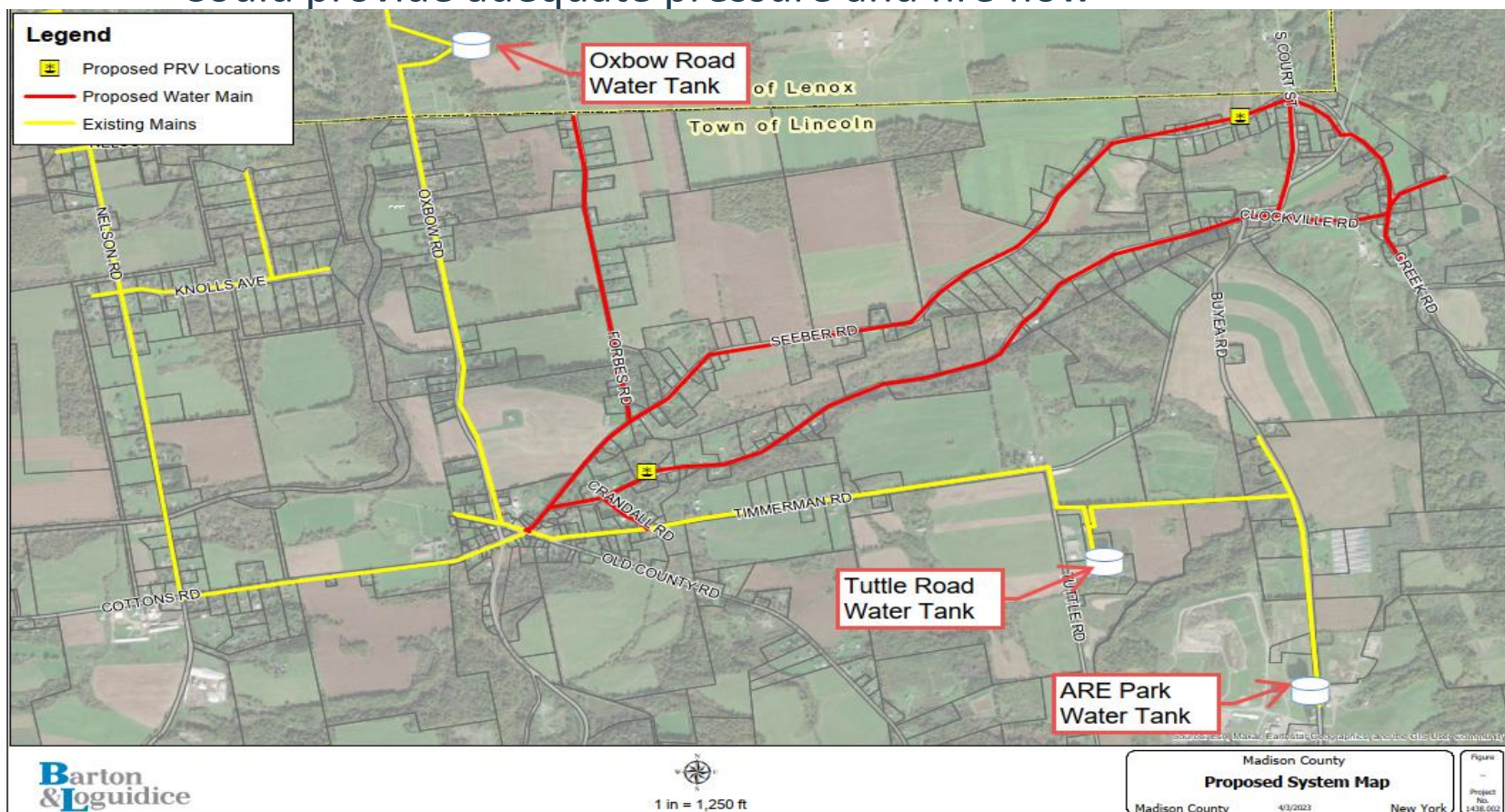
Interest Survey (2021)



Hydraulic Model Findings

Preliminary Hydraulic Modeling Results

- Harp Road is not a feasible extension
 - Fire flow and system pressure deficiencies
- Extensions South of Timmerman and Cottons Road
 - Pressure Limited
- Seeber, Forbes, and Clockville Road
 - Could provide adequate pressure and fire flow



Base Option Map

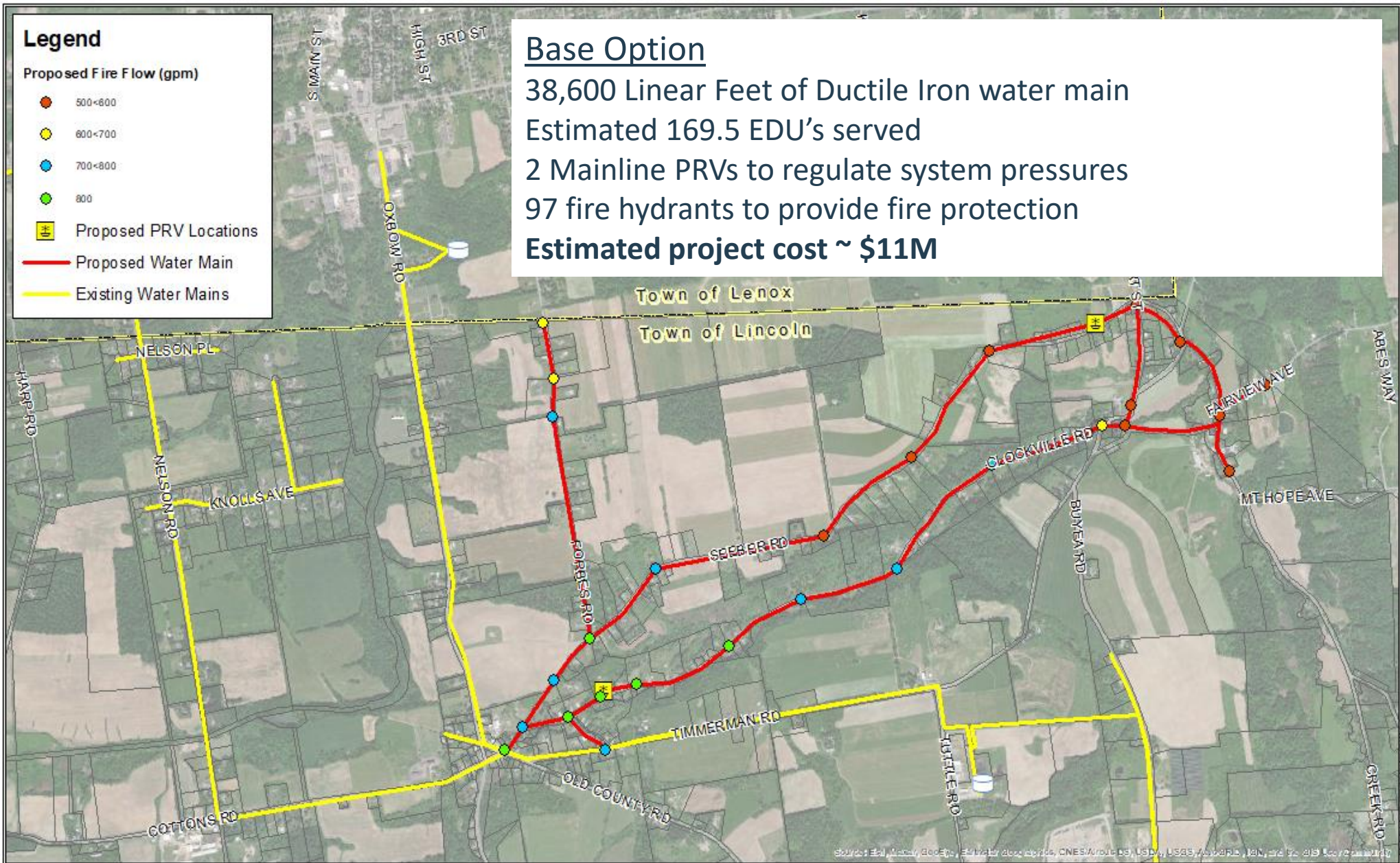
Legend

Proposed Fire Flow (gpm)

- 500-600
- 600-700
- 700-800
- 800
- Proposed PRV Locations
- Proposed Water Main
- Existing Water Mains

Base Option

38,600 Linear Feet of Ductile Iron water main
Estimated 169.5 EDU's served
2 Mainline PRVs to regulate system pressures
97 fire hydrants to provide fire protection
Estimated project cost ~ \$11M



- Total Project Costs
 - ~\$11M, pending service area

- User Costs

• Annual Debt Service	\$836*
• <u>Estimated OCWA Annual Bill</u>	<u>\$438</u>
Total	\$1,274/EDU**

*Pending service area and funding. Assume \$5M WIIA Grant and \$1.8M USDA RD Apply Grant. See Potential Funding Slide.

**EDU (equivalent Dwelling Unit) = one single family home. An equivalent dwelling unit (EDU) is associated with the water usage of a single-family household. Therefore, most single-family households are assigned one (1) EDU while some businesses may be assigned additional EDUs based on water usage.

Estimated Debt Service

For typical, single family home (1 EDU)

• Estimated Project Cost	\$11,000,000
• Assumed EFC/WIIA Grant	\$5,000,000
• Assumed USDA RD Grant	\$1,800,000
• <u>Total Number of Users (EDUs)</u>	<u>169.5</u>
Total Annual Debt Service per EDU	\$836*

*Total project cost and grants may vary pending service area and funding programs



Estimated OCWA Water Bill

For typical, single family home (1 EDU)

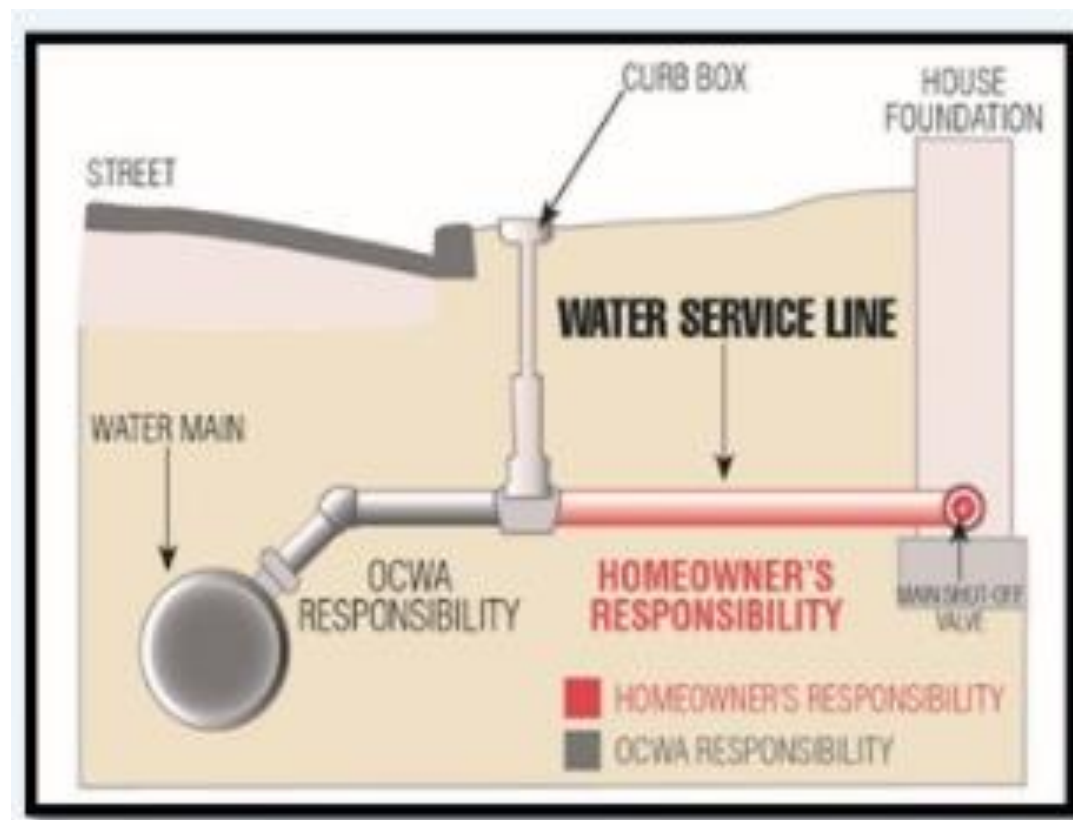
• Water Usage (150 gpd/EDU)	\$194
• Base Service Fee (5/8" meter)	\$167
• Metropolitan Water Board Fee	\$30
• <u>Hydrant Maintenance Fee</u>	<u>\$47</u>
Total	\$438*

*Per 2023 OCWA Rate Schedules



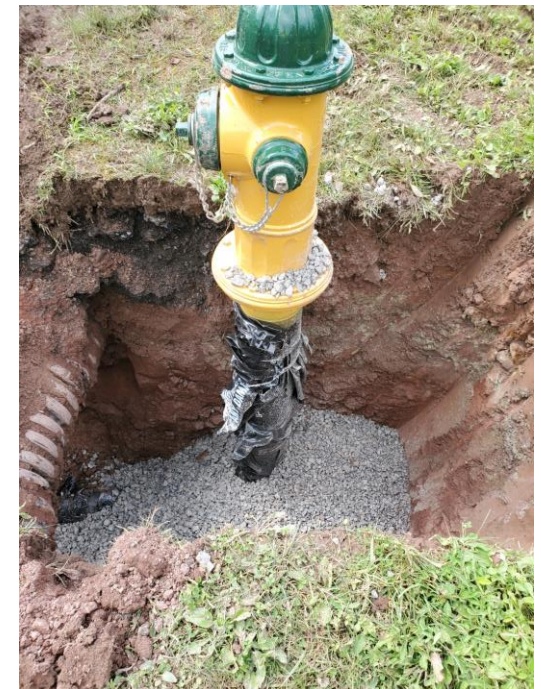
Typical Connection Detail

- OCWA requires a meter pit located at the property right-of-way (ROW), **IF** typical residential house is located more than 150-feet from ROW.
- Otherwise water meters are installed within house.



One Time Connection Cost

- OCWA Water Meter Installation Fee \$225
- Service Lateral Installation Fee (3/4")
 - \$1,000 (base cost) + \$30 per linear foot (copper pipe)
- Meter Pit Installation Fee (if required) \$1,300



- NYS Water Infrastructure Improvement Act (WIIA) Grant
 - Lesser of \$5M or 60% of total project costs less other grants, max.
 - Clockville WD No. 1 was awarded a 60% WIIA Grant
- NYSEFC Drinking Water State Revolving Fund (DWSRF)
 - Program offers AAA market rate or subsidized loans
 - Financing based on project score and financial need
 - Targeted financing: 30 year, 2.99% subsidized loan
- USDA Rural Development (RD) Water Environmental Program (WEP)
 - Offer market rate or subsidized loans and grant funding
 - Target service charge: 2% of MHI (\$1,286.00)

- Interest Survey
- Preliminary Engineering Report (PER)
 - Submit to NYS DOH/NYS EFC
 - NYS Intended Use Plan Project Listing
- District Formation
 - Define Water District Boundary
 - Complete Map, Plan and Report
 - Estimates project and user costs, establishes district boundary
- Environmental Review – SEQR
- Bond Resolution
- Preliminary Design
- Grant/financing Applications
 - All previous steps required prior to submitting for NYS or Federal grants/financing

The experience to
listen
The power to
solveSM

BartonandLoguidice.com



Interest Survey Tables

	Bridge	Clockville	Fairview	Forbes	Harp	S Court	Seeber	Total	Percentage of Responses
Yes	3	13	0	16	7	2	9	50	51%
No	0	13	1	4	15	0	16	49	49%

Total Responses 99

Town of Lincoln Summary		
Response	Total	Percentage of Responses
Yes	123	36%
No	216	64%

Total Responses 339

Areas of Interest Summary		
Response	Total	Percentage of Responses
Yes	50	51%
No	49	49%

Total Responses 99