

# Intermunicipal Water Infrastructure Grants (IMG) Program for Water Main Replacements



# Project Summary

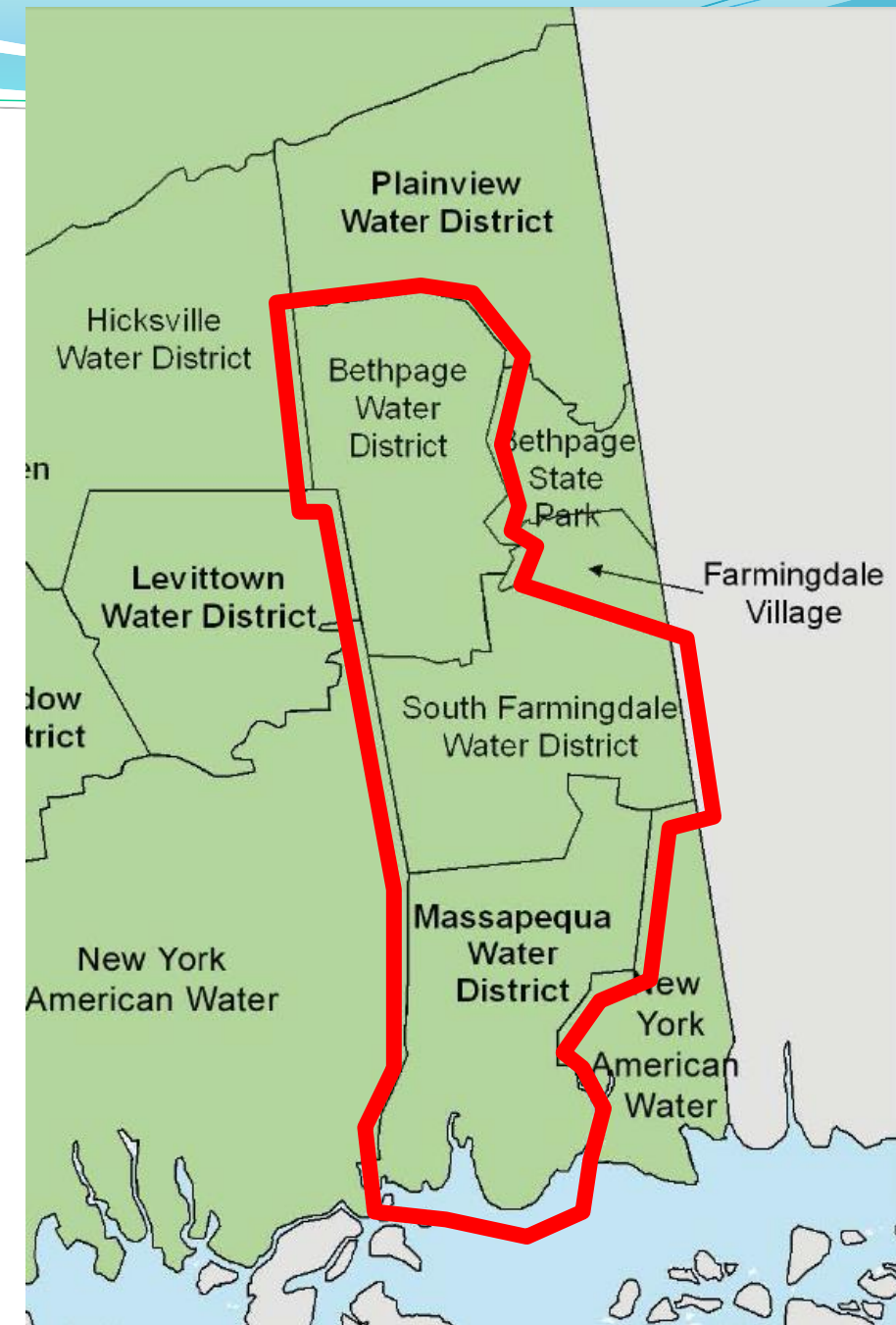
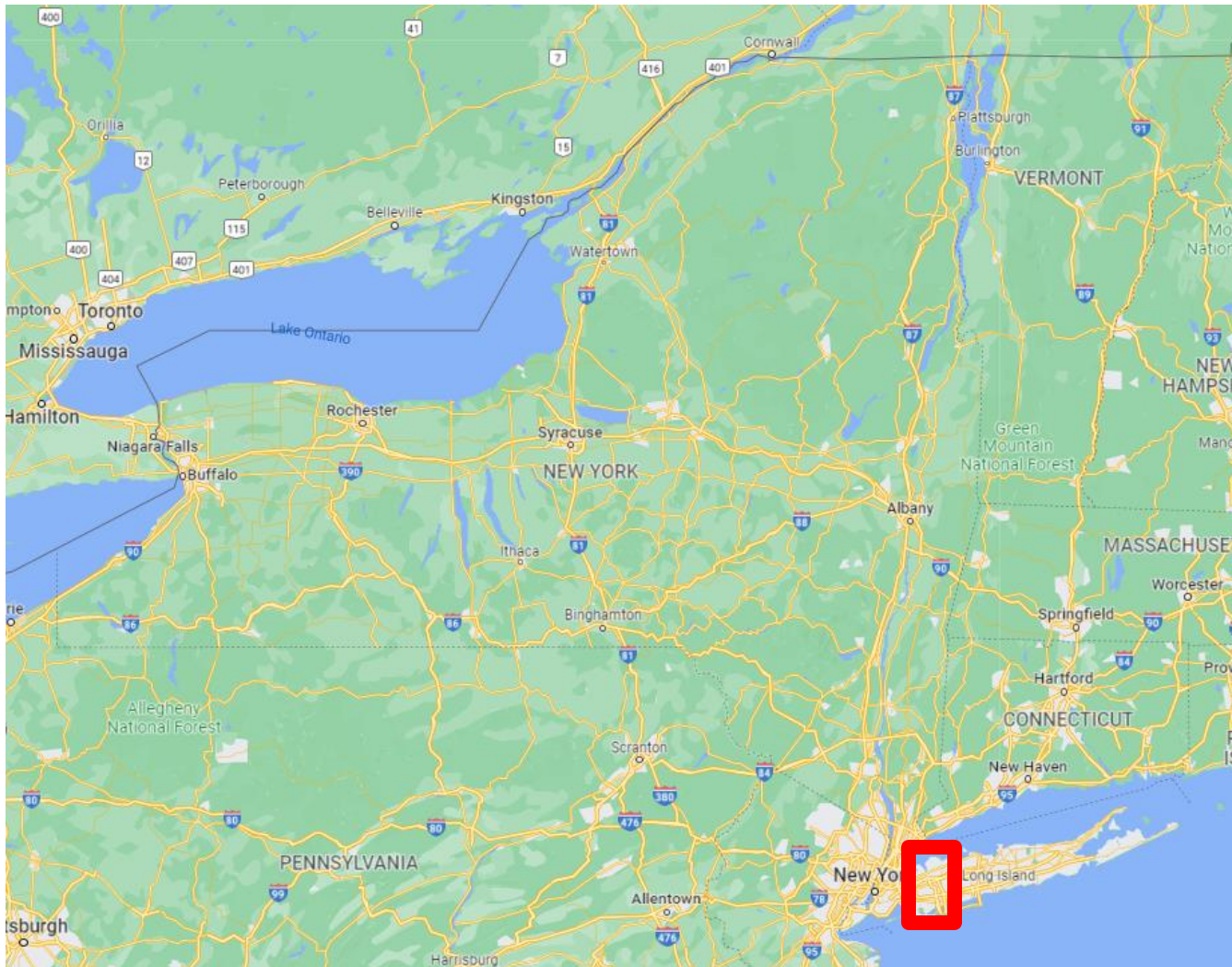
- Bethpage (BWD), South Farmingdale (SFWD), and Massapequa (MWD) Water Districts
- Replacement of approximately 6.6 miles of water main across 47 roads ( $\approx$ 24 Empire State Buildings)
- Water Infrastructure Improvement Act (WIIA) grant funds for water main replacements
- New York State (NYS) Environmental Facilities Corporation (EFC) document review

1,454 Feet (0.275 Miles)

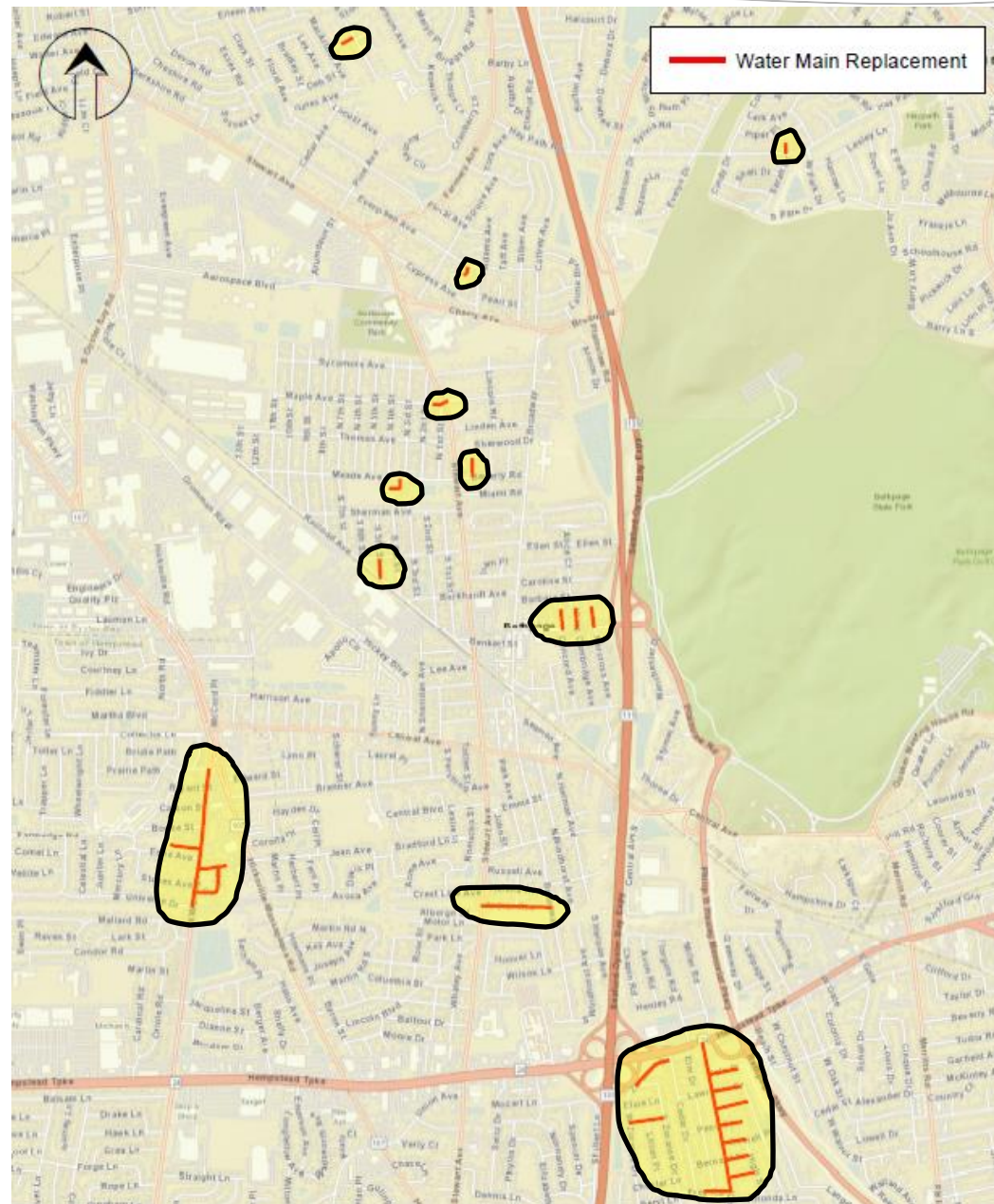




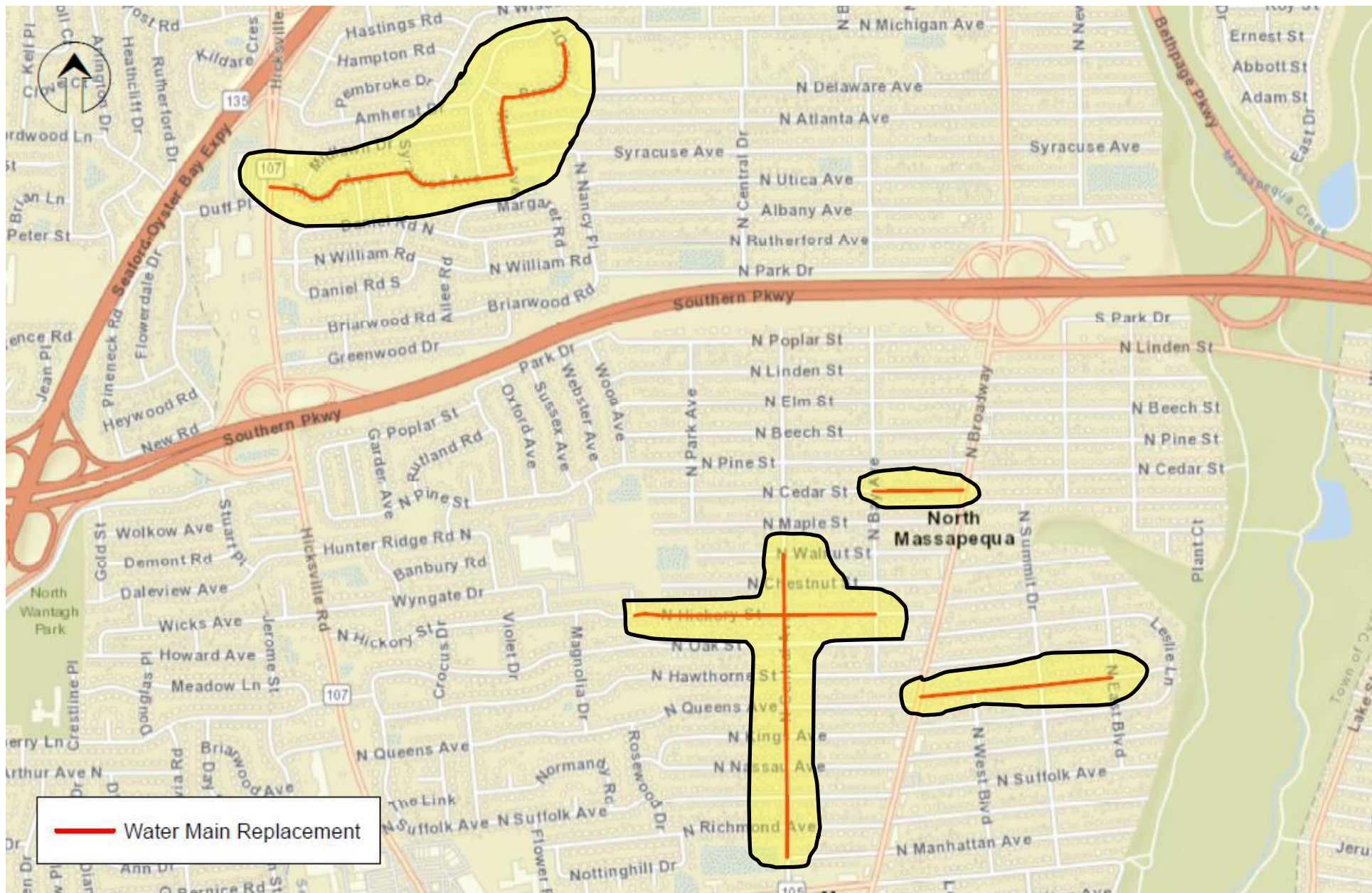
# Project Summary



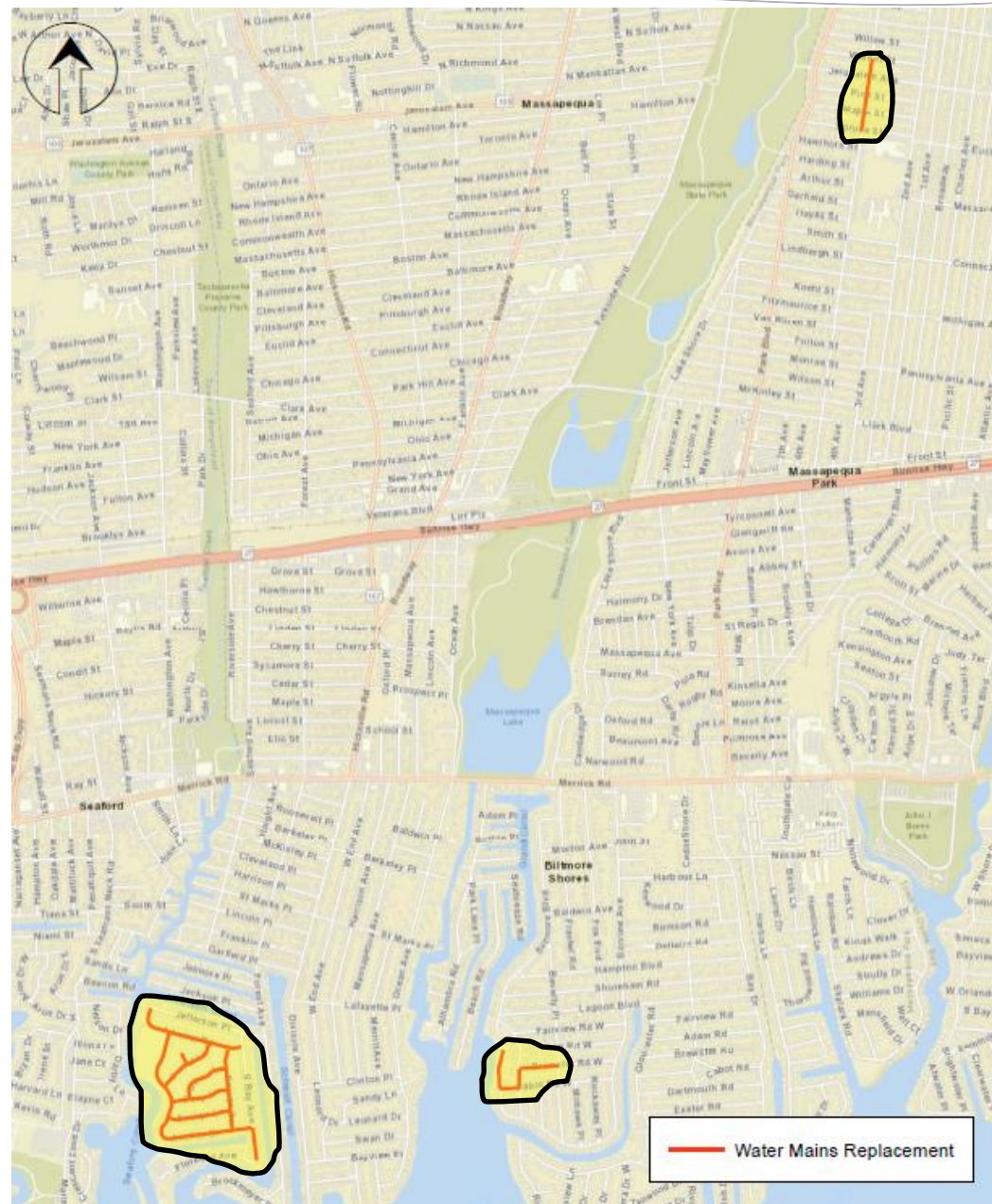
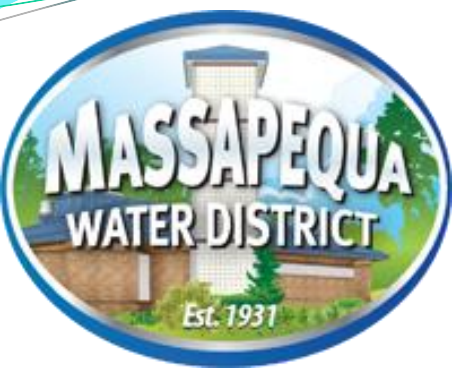




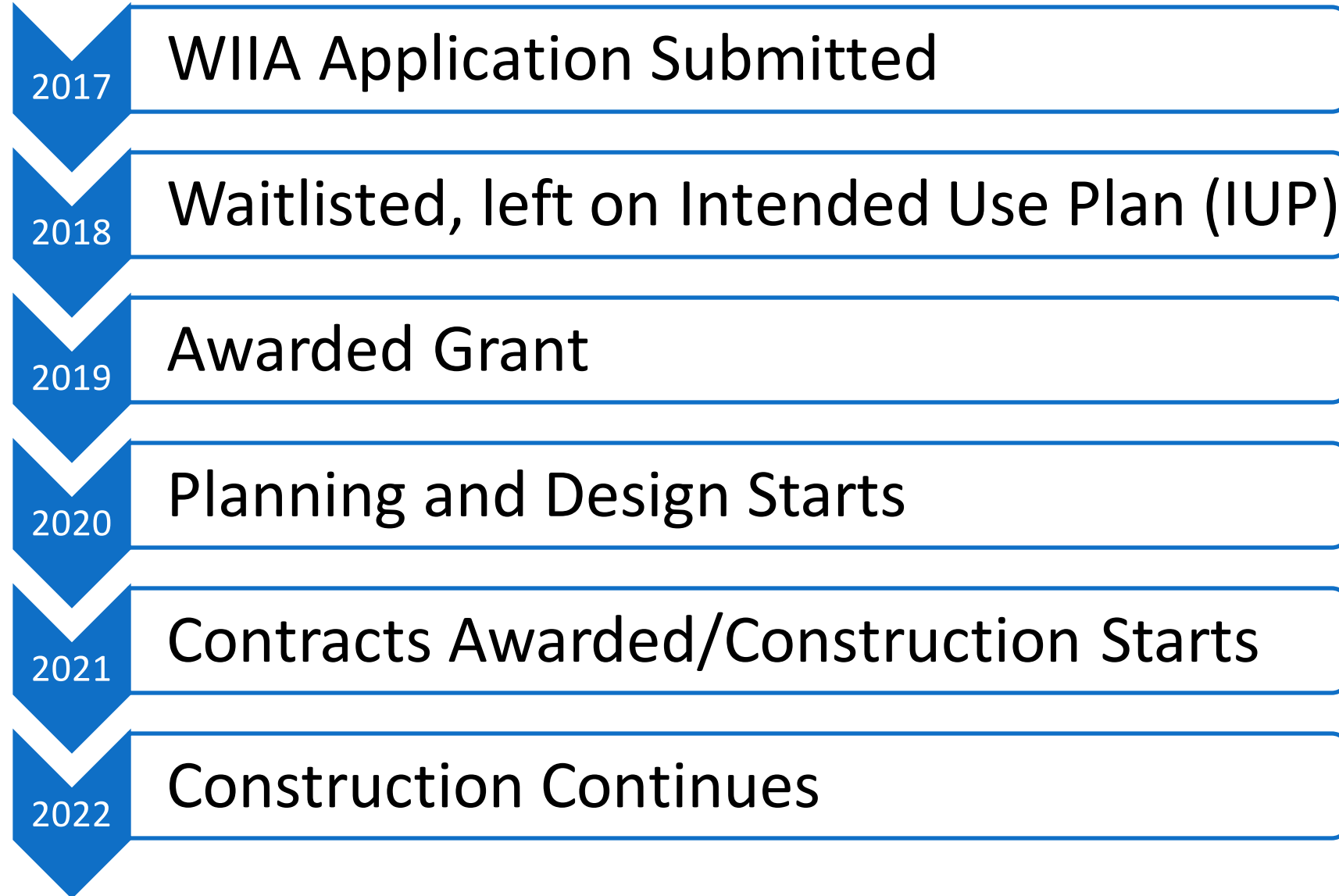






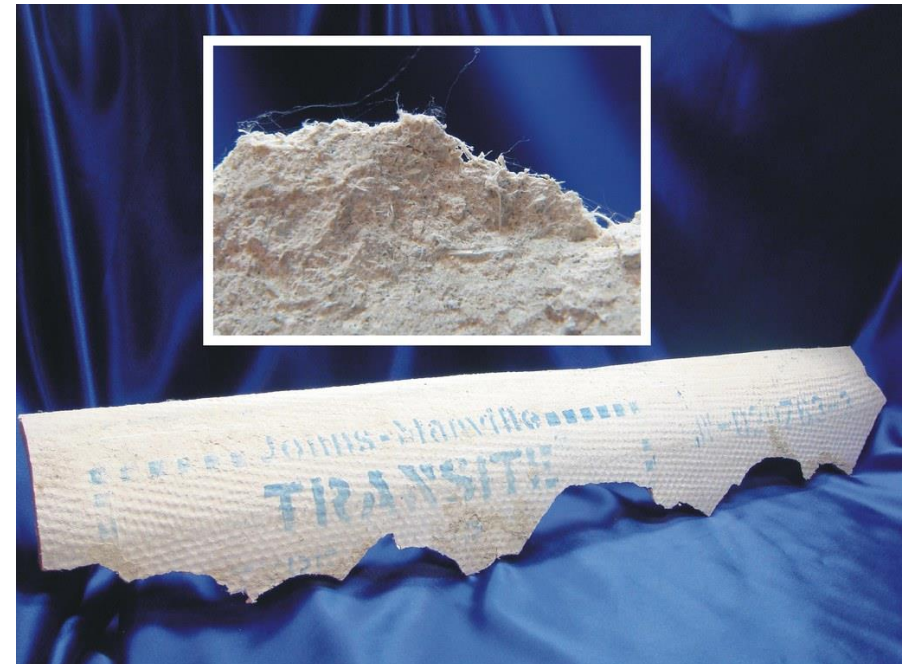
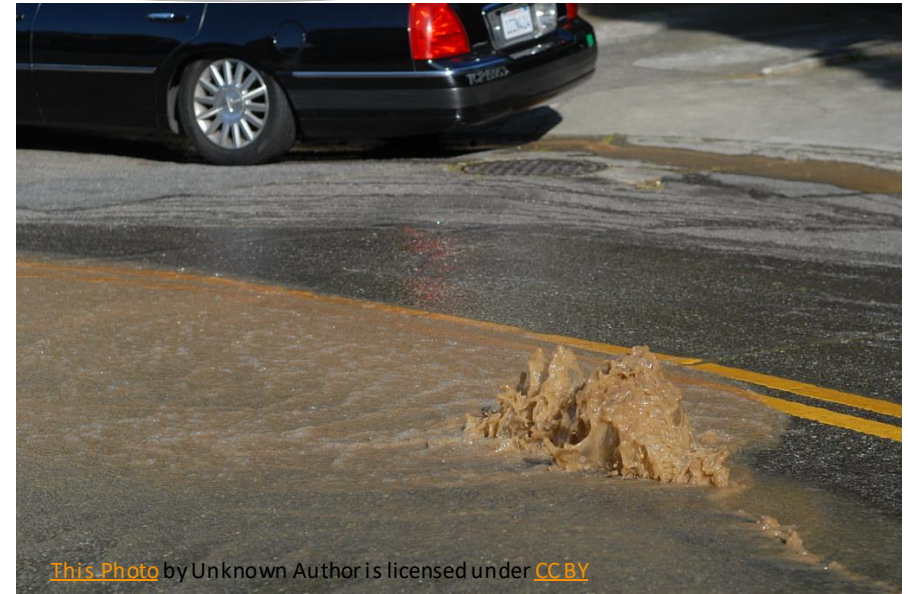


# Timeline



# Problems

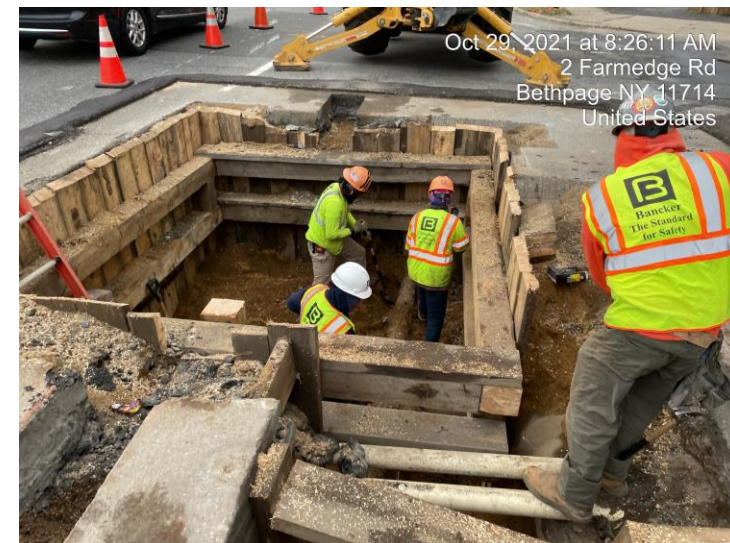
- Piping failures
  - Reaching end of useful life
  - Water loss and system disruptions
  - Transite/Asbestos Concrete Pipe (ACP)
    - NYSDOL Industrial Code Rule 56 (ICR 56)
- High costs to repair breaks





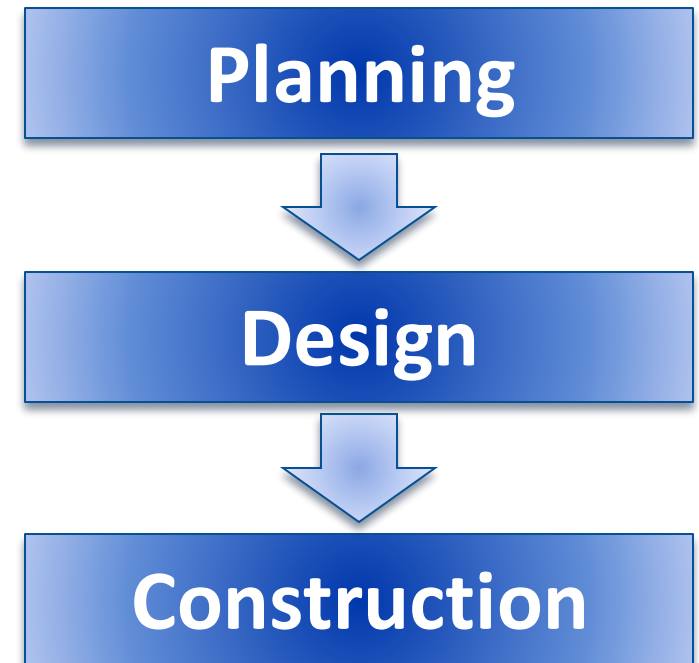
# Water Main Replacement Programs

- Eliminate problem sections
- Increase water pressure or supply to underserved areas
- Long-term planning
  - Planning, design, permitting, bidding, construction
  - Cost spread out over multiple yearly budgets
  - Balance replacement work with necessary plant upgrades
- Prolonging replacements can be costly



# Solution – State Grant Funding

- New York State Water Infrastructure Improvement Act (WIIA) Grant
- Under an Intermunicipal Grant (IMG)
  - Can be awarded up to \$30M or 40% of eligible costs
  - Reduce costs through economy of scale
    - Single design firm
    - Single Contractor or separate Contractors for lowest price
  - Eligible costs include:
    - Project planning
    - Design
    - Construction services
    - Construction





# Benefits

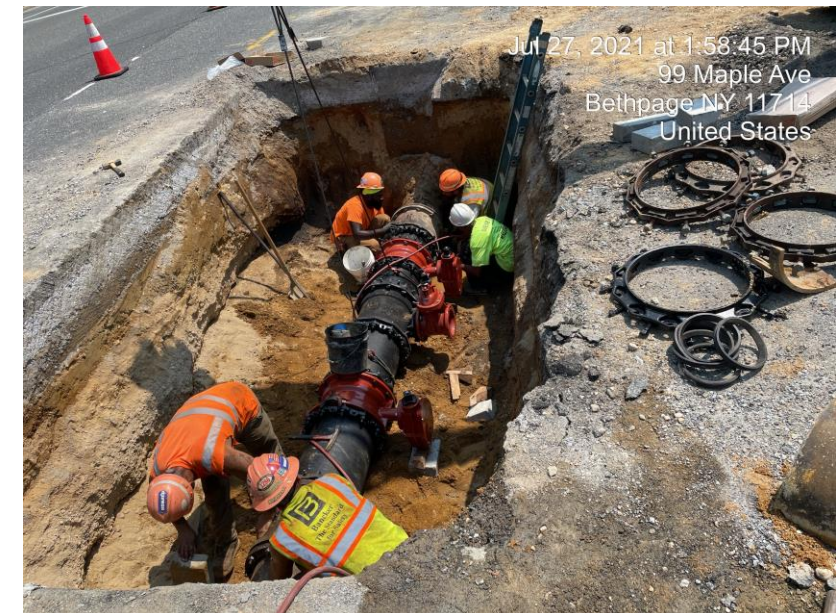
- Subsidized cost of construction
  - Expedite replacements
  - Proactive replacements not just reactionary
  - Replace more pipe
- Lower cost for design and construction
- Streamlined coordination efforts





# Drawbacks

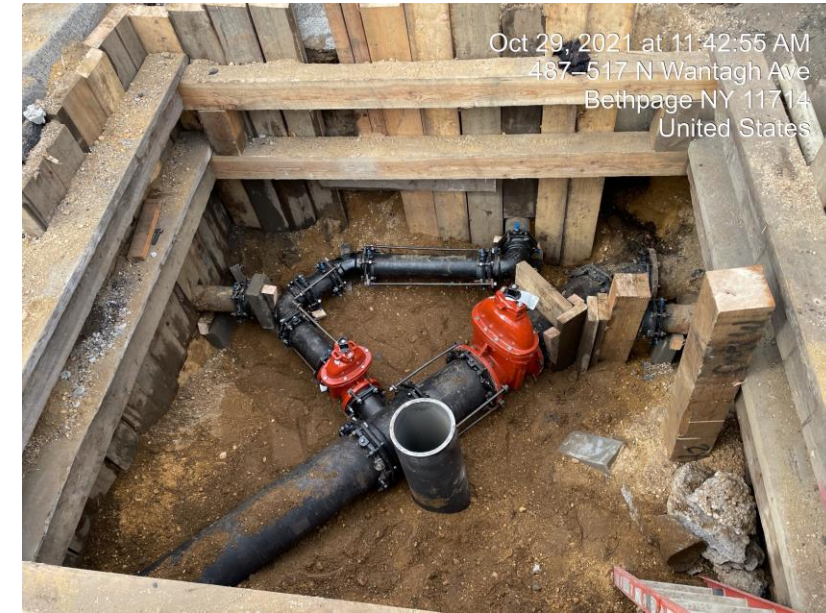
- Learning curve for process, IMG new as of 2017
- Complex agreement between Districts
- Waiver process
- Holding off critical work until grant is awarded
- Tracking and submissions during construction





# Technical Challenges

- Permitting with local and state health departments
- Coordination with paving schedules
- Coordination with other utilities
- Changes during construction
- Poor soils and high groundwater in MWD
- Expediting construction while waiting on EFC waiver approvals



# NYS EFC Grant Process

**Environmental  
Facilities  
Corporation**



**Empire State  
Development**



Application  
Stage

Post-Award  
Stage

Bidding Stage


Construction  
Kick-Off

Monthly  
Reporting



# Application Stage

- Total Project Budget
- Plan of Project Finance
- Engineering Report
- Smart Growth Assessment Form
- State Environmental Quality Review Act (SEQRA) Determination – each District
- State Historic Preservation Office (SHPO) Determination - each District
- Intermunicipal Agreement (IMA)
- State Revolving Fund (SRF) Financing Application (If no bonding) – each District
- Minority Business Officer (MBO)

 **NEW YORK**  
STATE OF  
OPPORTUNITY

**Department of Health** | **Environmental Facilities Corporation**

625 Broadway  
Albany, New York 12207-2997  
(518) 402-6924 (p)  
(518) 402-6954 (f)  
nyswatergrants@efc.ny.gov  
www.efc.ny.gov/nyswatergrants

## GRANT APPLICATION

NYS WATER INFRASTRUCTURE IMPROVEMENT ACT (WIIA)  
&  
NYS INTERMUNICIPAL WATER INFRASTRUCTURE GRANTS PROGRAM (IMG)  
DRINKING WATER

**A. APPLICANT**

Name of Applicant: \_\_\_\_\_ County: \_\_\_\_\_  
Federal I.D. Number: \_\_\_\_\_ DUNS Number: \_\_\_\_\_

Authorized Representative: \_\_\_\_\_ Phone: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_ Email: \_\_\_\_\_

Daily Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Title: \_\_\_\_\_ Email: \_\_\_\_\_  
Company: \_\_\_\_\_

Engineering Consultant: \_\_\_\_\_ Phone: \_\_\_\_\_  
Title: \_\_\_\_\_ Email: \_\_\_\_\_  
Company: \_\_\_\_\_

**B. GENERAL INFORMATION**

Project Name: \_\_\_\_\_  
Project Location: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Service Area: \_\_\_\_\_  
Population of Project Area: \_\_\_\_\_  
Public Water Supply ID Number: \_\_\_\_\_

Estimated Total Project Cost: \$ \_\_\_\_\_ Design Start Date: \_\_\_\_\_ (✓T / ☐A)  
Construction Start Date: \_\_\_\_\_ (✓T / ☐A) Construction End Date: \_\_\_\_\_ (✓T / ☐A)  
Check "T" for a target date and "A" for an actual date

Legislative Districts  
(you may include two districts)  
US Congress NY Senate NY Assembly  
☐ ☐ ☐

WIIA Grant Application  
IMG Grant Application  
Drinking Water

1 of 9

4/2017

# Application Stage - Challenges

- Intermunicipal Agreement (IMA)
  - Difficult to get set up
    - Coordination between District's counsel, then with state
    - Negotiations between Districts
    - Valid and binding agreement in the eyes of NYS
  - One party disburses funds from State
    - Money divided evenly between all District's
    - EFC will disburse 75% of grant, holding 25% for after project completion

## Example:

\$10M Estimated Total Construction Cost (all 3 Districts)

\$4M Grant Funds Awarded

\$1.333M Grant Funds per District





# Post-Award Stage

- Managed by NYS Environmental Facilities Corporation (EFC)
- Request for any missing information
- Request for revisions to any submitted documents
- Execute agreement between NYS and Lead Municipality



**Environmental  
Facilities  
Corporation**

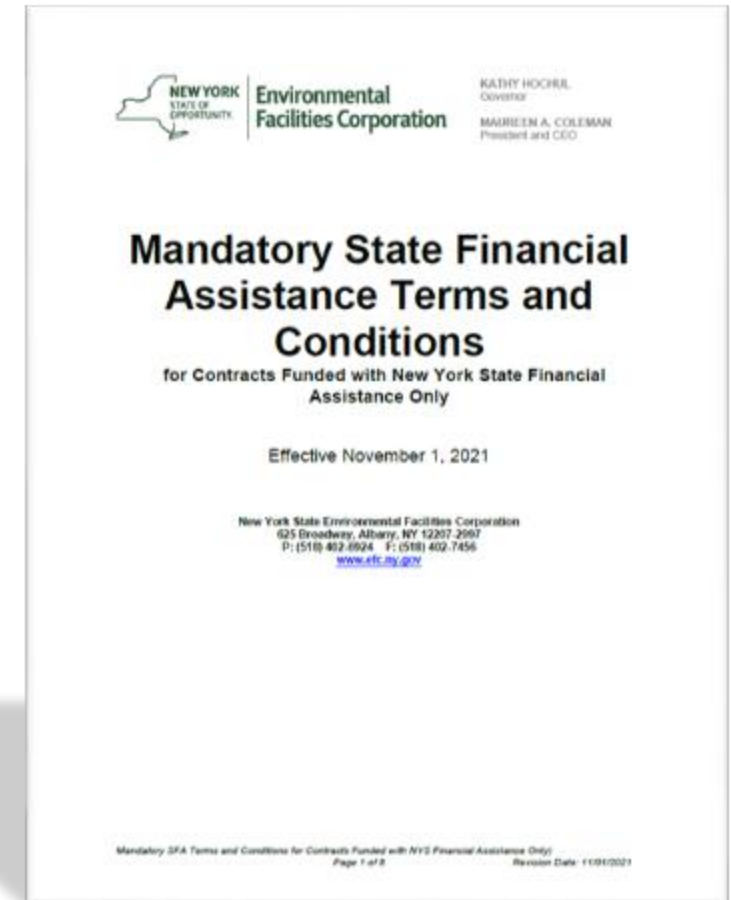


# Bidding Stage

- NYS EFC Terms and Conditions Bid Packet
  - Known as EFC Bid Packet at time of job
- Contractor Utilization Plans
  - Minority and Women Owned Business Enterprises (MWBE)
  - Service-Disabled Veteran-Owned Business Program (SDVOB)



Participation	Participation Required (%)
MWBE	30%
SDVOB	6%





# Bidding Stage - Challenges

- Alternate bid sheets and ways to award
  - Same Contractor for all 3 Districts
  - Same Contractor for 2 Districts and 1 Separate
  - Separate Contractor for all 3 Districts
- 2 active crews available at all times



# Construction Kick-Off

- Review of MWBE and SDVOB Utilization Plans
- Waiver Requests
  - Letter explaining need for waiver
  - Scope of work break down
  - Screenshots of search results
  - Excel log of solicitation attempts
  - Copies of advertisements
  - Specialty equipment/services
  - Sub-contractor quotes

Type of Contract	MWBE Section 1	SDVOB Section 2	EEO Section 1	Suspension & Debarment Section 3
Construction				
All				X
If greater than:				
\$100,000	X	X	X	X
Non-Construction				
All				X
If greater than:				
\$25,000	X	X	X	X

**WAIVER**

**ACCEPTED**

**REJECTED**



# Monthly Reporting

- Equal Employment Opportunity (EEO) Workforce Utilization Report to EFC
- Monthly MWBE-SDVOB Report to MBO
- Proof of Payment by Contractor to Subs
  - Final report with all utilization plan changes and change orders
- Each District responsible for approving their own invoices
  - MWD as lead agency will apply for and disperse funds



# Successful Take-aways

- All parties need to be educated on the process
  - Conference calls with NYS EFC and all Contractors
  - Pre-Award Primer with MBO and NYSEFC
  - Plans to invite EFC to pre-construction meeting
- Owner, Engineer, and Contractor need to work as a team
- Overall construction cost will be higher due to grant paperwork, but ultimately savings for Owners





# Questions?



Kurt Dirr, P.E.

Email: [kdirr@db-eng.com](mailto:kdirr@db-eng.com)