

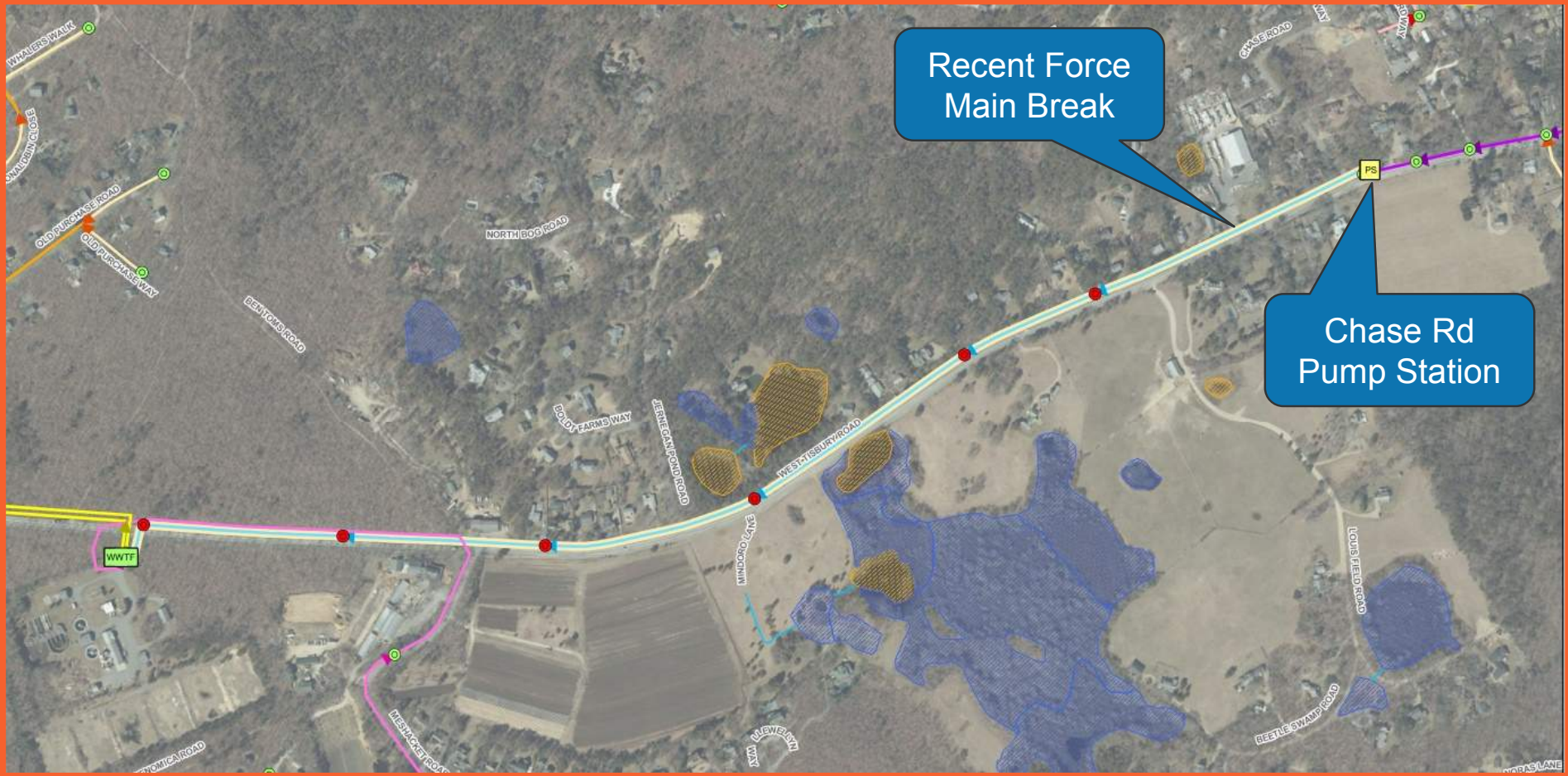


## Chase Road Pump Station Force Main Repair & Replacement Overview

Project Director: Ian Catlow, PE



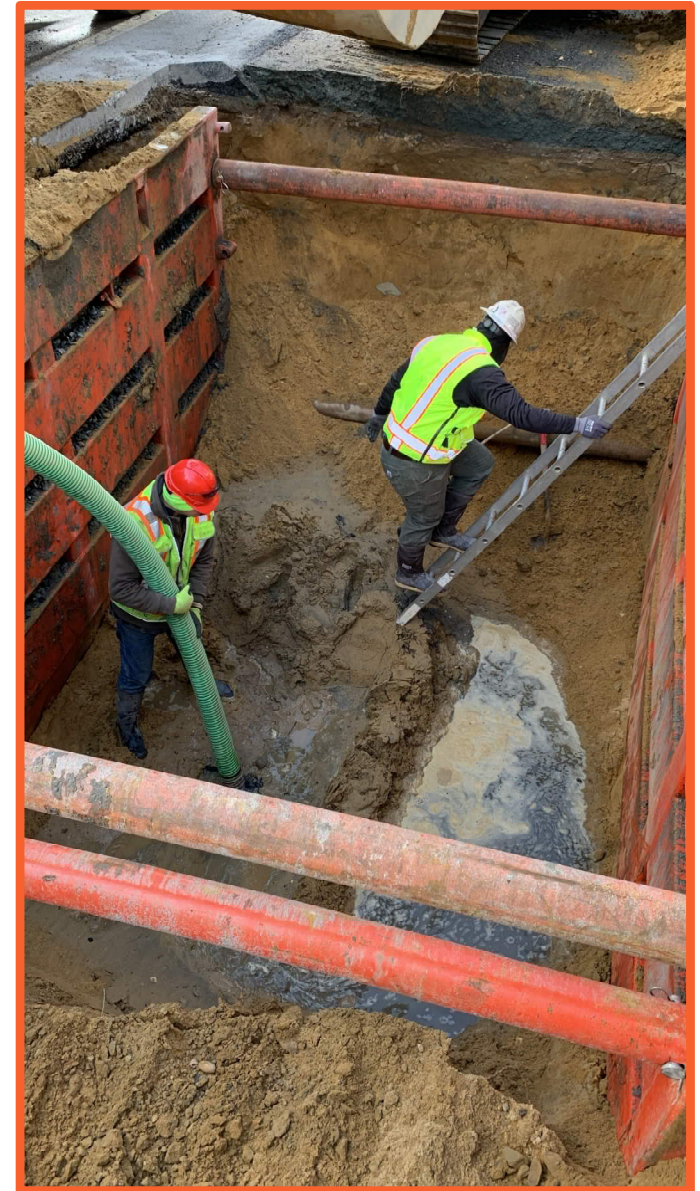
# CHASE RD PUMP STATION & FORCE MAIN OVERVIEW





# WEST TISBURY RD FORCE MAIN

- **Installed 1971, Over 53 Years Old**
- **Two, 8-Inch Cast Iron Pipes**
  - Typical Service Life 50-65 Years In Coastal Areas
- **Conveys Over 90% of Plan Flow**
- **History of Breaks Over Last 10 to 15 Years**





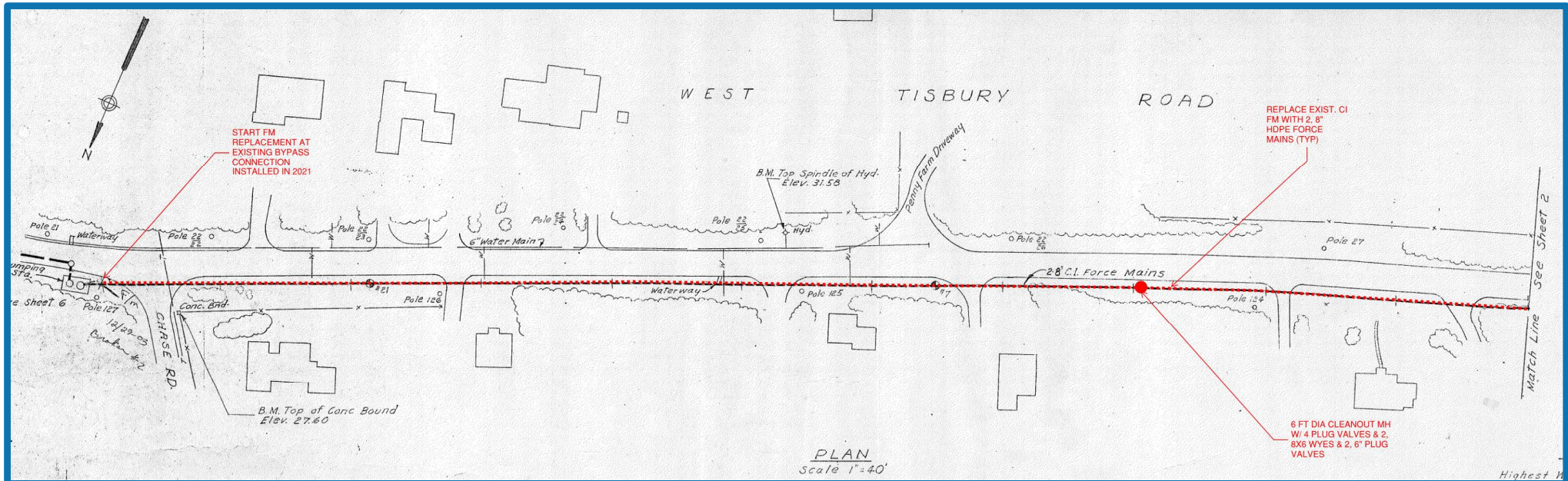
# REPAIR & REPLACEMENT OPTIONS

## Option 1 – Cured In Place Lining

- Bypass Pumping
- Create Access Points
- Pipeline Cleaning
- Install Cured In Place Liner

## Option 2 – Pipeline Replacement

- Bypass Pumping
- Install New Pipelines In Existing Alignment



# REPAIR & REPLACEMENT COSTS

	Cast In Place Liner Single Force Main	Cast In Place Liner Dual Force Mains	Dig & Replace Dual Force Mains
Construction Cost Subtotal	\$1,443,000	\$2,306,000	\$3,074,000
30% Construction Contingency	\$433,000	\$692,000	\$922,000
Construction Total	\$1,876,000	\$2,998,000	\$3,996,000
Design & Bid Phase Engineering	\$188,000	\$300,000	\$400,000
Construction Phase Engineering	\$226,000	\$360,000	\$480,000
<b>Project Total</b>	<b>\$2,290,000</b>	<b>\$3,658,000</b>	<b>\$4,876,000</b>
<b>Service Life After Repair</b>	<b>50 Years</b>	<b>50 Years</b>	<b>100 Years</b>