

# Town of Plymouth Samoset Street Sewer Expansion Project



Article 17  
Committee of Precinct Chairs  
October 16, 2014



# History

- AECOM developed CIP Jan 2012
  - Associated with CWMP Identifying Key Areas for Expansion
  - Utilize Existing System Capacity
- Adopted Betterments April 2013
  - Town Meeting (ART 30) April 6, 2013 Voted in Betterments G.L 83 § 15
- Samoset St Design June 2013



# Enterprise fund

- What is the Sewer Enterprise fund?
  - Separate Accounting System for Sewer Services
  - Funded by the Ratepayers
- Current Debt
  - 44.9% of the Sewer Budget is Debt
  - Betterments Necessary to fund extension projects at this time



# PLYMOUTH SEWER SYSTEM

- The Existing collection System is 60 Miles of Pipeline, 7 Pumping Stations, & Approximately 3,000 service connections
- North Plymouth Sewer Extension (9400 ft.)
  - 2002-Funded by the Rate Payers \$2,191,000
- Obery St Sewer Extension (2200 ft.)
  - 2006-Funded by Grant DCAMM \$800,000



# Samoset St Sewer Expansion Project

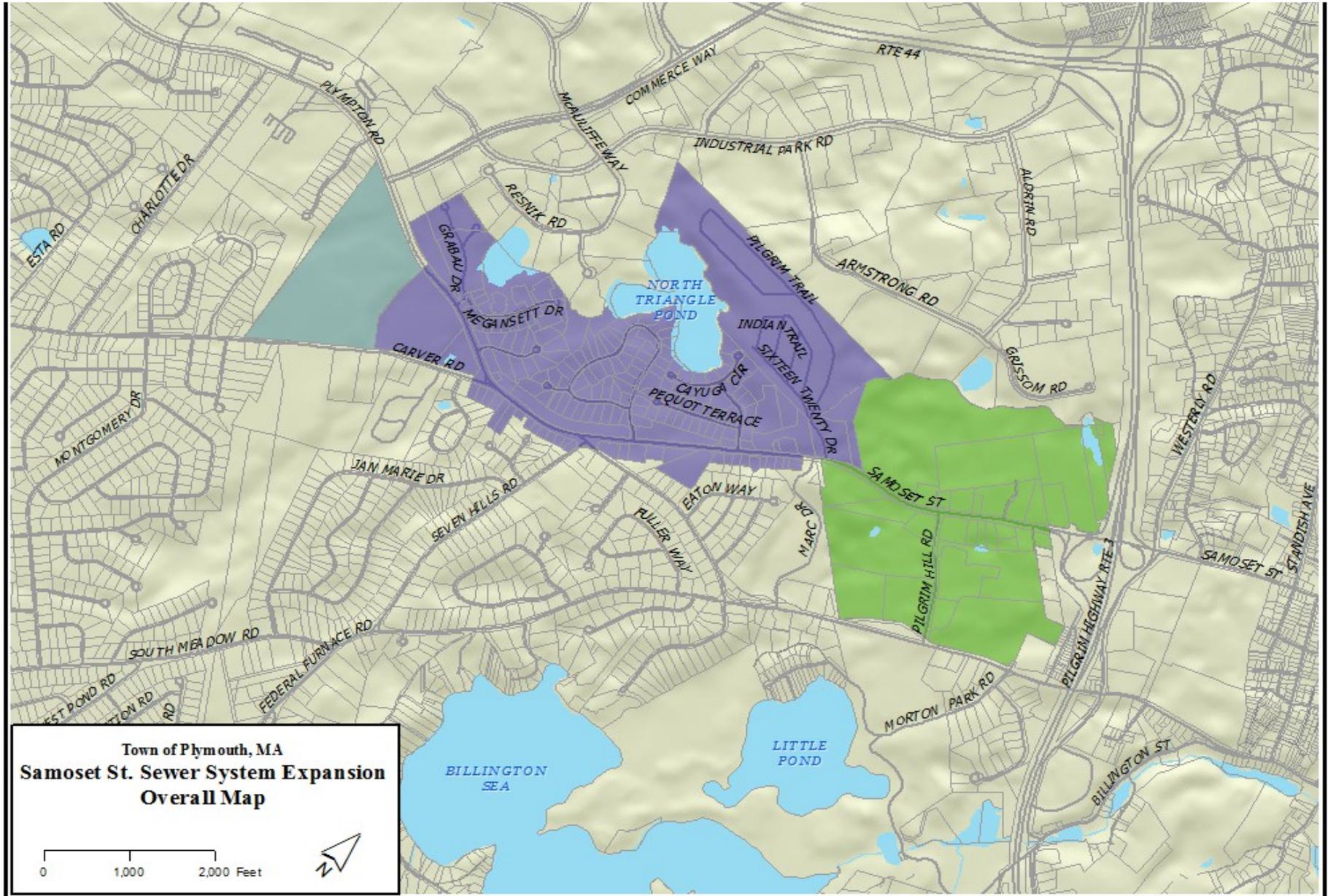
- Project Overview
- Project Schedule
- Project Status
- Betterments
- Bettered Properties



# PROJECT OVERVIEW

- Gravity Sewer ~ 6,000 feet
- Pump Station
- Force Main ~ 3,500 feet
- Service Connections to Property Line
- Paving

# PROPOSED SERVICE AREA



# PROJECT AREA





# PROJECT SCHEDULE

- Engineering Design - Completed
- Fall Town Meeting - October 2014
- Advertise for Bids - Fall 2014
- Start of Construction - Spring 2015



# PROJECT STATUS

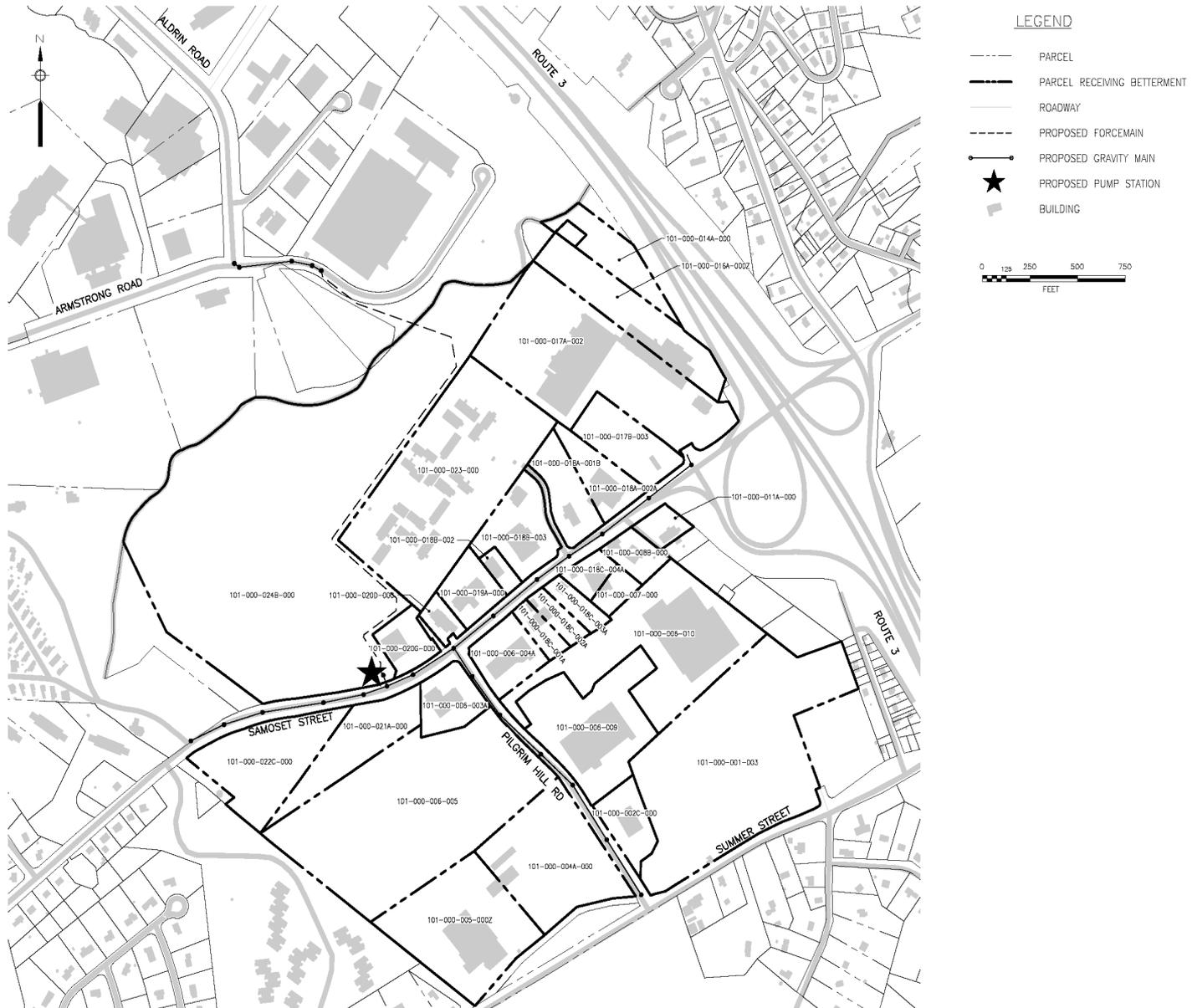
## Items Completed

- Detailed Ground Survey
- Utility Information
- Subsurface Exploration
- Detailed Design Plans

## Items To Be Completed

- Contract Documents
- Town Meeting Approval
- Advertise for Bids
- Award Contract

# 30 "BETTERED" PARCELS





# BETTERMENTS

- Town Adopted Use of Sewer Betterment Assessments, April 2013 - Article 30
- Special Tax Assessed on “Bettered” Parcels to Recover Up to 100 % of Project Costs
- Based Upon a Uniform Unit Method
  - Each Unit, Referred to as an Equivalent Dwelling Unit (EDU), Shall be Equal to the Estimated Wastewater Flow from a Single Family Residence



# BETTERMENTS (cont.)

- Betterment Costs
  - Town to Contribute an Estimated \$1.1M to Project for Town Owned Site 101
  - Final Betterment Costs Based on Final Project Costs
  - Betterment Payments - Lump Sum or Annual Payments (Maximum 20 Year Apportionment With Committed Interest)



## BETTERMENTS (cont.)

- Multi Family and Non Residential Properties are Calculated into a Number of EDUs
- Calculation of Property EDUs
  - Property Flow / One EDU = Property EDUs
  - One EDU = 297 gpd, for this project
- EDU and Property Flows Developed Based on Water Consumption & Land Use Zoning Code



## DETERMINING ESTIMATED BETTERMENT COST

- 10 Acre **Industrial** Property
- 10 Acres x 972 gpd/Acre = 9,720 gpd
- 9,720 gpd/297 gpd = 33 EDU's
  
- 33 EDU x \$8,000 per EDU = \$264,000



## DETERMINING ESTIMATED BETTERMENT COST

- 10 Acre **Commercial** Property
- 10 Acres x 1,038 gpd/Acre = 10,380 gpd
- 10,380 gpd/297 gpd = 35 EDU's
  
- 35 EDU x \$8,000 per EDU = \$280,000



# QUESTIONS AND ANSWERS

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