

Salem Street Area Utilities Project

Presentation by:

Hoyle, Tanner & Associates, Inc

Town of Exeter Public Works Department

Project Team

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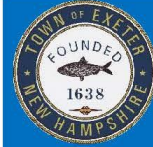
- Joe Ducharme, Jr., PE, - Project Manager
- Steve Haas, PE – Roadway & Drainage
- Rychel Gibson, PE – Utilities Engineer
- Nichole Davis, Marketing Director – Public Outreach Coordinator

Town of Exeter

- Jen Mates, PE, Assistant Town Engineer – Project Manager

Neighborhood Survey

- Gather Input from Residents
- Understand Project Concerns
- Plan for Construction Restrictions



Town of Exeter

Salem Street Area Utilities Improvement Project

3/4/2020 Public Informational Meeting

1. What is your property address (House Number & Street)?

2. What is your email address?

3. What is your phone number?

4. Do you have a rain barrel?

a. Yes

b. No

If no, are you interested in having one? _____ Yes _____ No

5. Have you observed any drainage issues in your neighborhood such as ponding on the roads?

a. Yes

Please describe:

b. No

6. Do you have a sump pump?

a. Yes

b. No

7. Have you joined the Facebook group for the project?

a. Yes

b. No

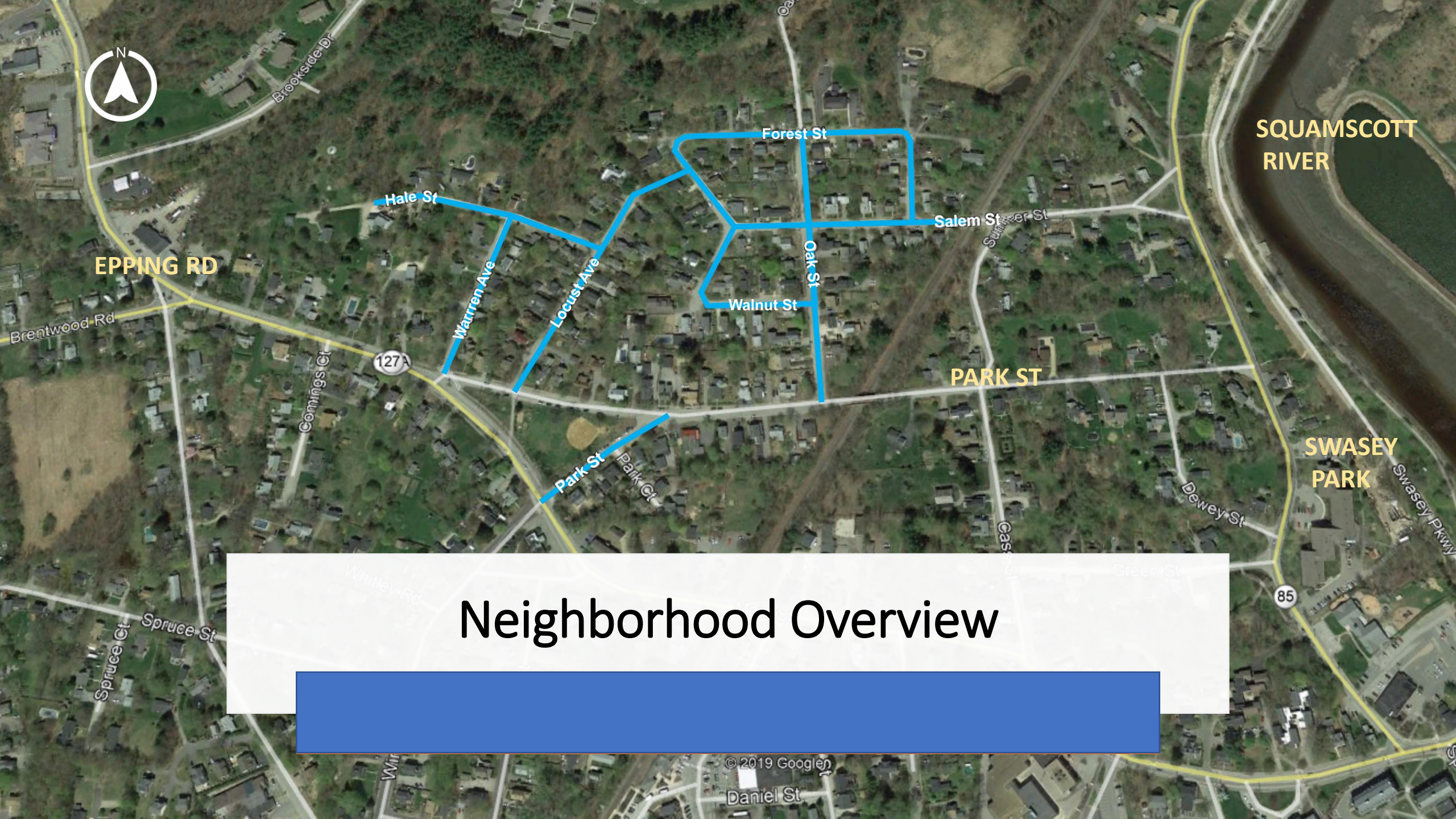
8. Do you have any special needs for daytime deliveries?

a. Yes

b. No

9. How did you hear about this meeting?

10. Do you have any concerns you want to share with the design team?



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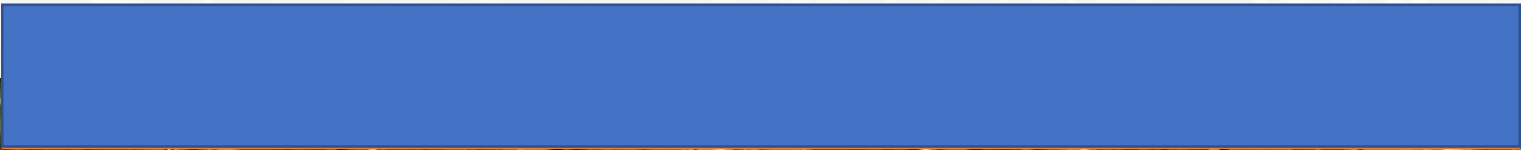
PARK ST

SQUAMSCOTT RIVER

SWASEY PARK

85

Neighborhood Overview





- Existing Utilities

 Water

 Sewer

 Drainage

Neighborhood Utilities

Water Main Improvements

- Improve Pressure
- Improve Flow
- Improve Reliability
- Improve Water Quality



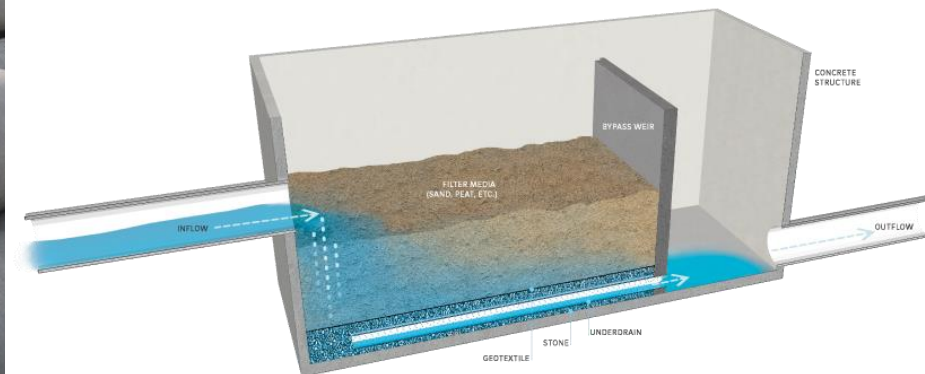
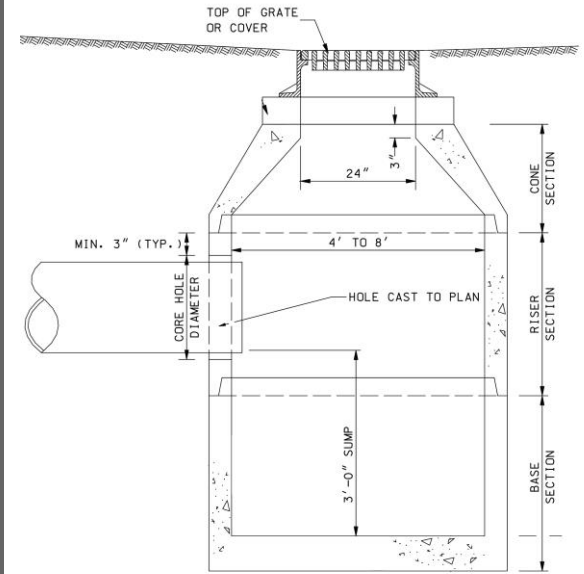


Sewer Improvements

- Reduce Backups
- Reduce Inflow & Infiltration
- Improve Sustainability

Drainage Improvements

- Replace Select Catch Basins
 - Improved Grates
 - Sump for Sediment
 - Maintenance Ease
- Replace Damaged Pipe
- Opportunities to Improve Stormwater Quality (MS4/AoC)





Pavement Restoration

- Trench Patching Vs.
- Full Width Pavement Overlay/Replacement



Town of Exeter, New Hampshire

2020 - 2025 CIP Project Request Form

Date Submitted: 6/28/2019

First Year Funding is Requested: FY21



Check all that apply
2020 - 2025 Source of Funding

- GO Bond/Borrowing
- Grants
- Taxes
- Water Fees
- Sewer Fees
- Impact Fees
- Revolving Funds
- Other

- Project Benefits**
- Reduces Liability
 - Health or Safety
 - Reduces Long Term Debt
 - Other: _____

FY 2021	
Salaries & Wages:	
Employees Benefits:	
Expenses:	\$4,440,000
Other:	
Total:	_____
Estimated Project Cost:	\$4,440,000
Estimated Fiscal Capital Cost	
\$4,440,000	

Project Title: Salem St. Area Utility Replacements
Project Type: Special Projects
Project Cost: \$4,440,000

Project Ranking: _____ of _____
Useful Life (Years): 50
Master Plan (Y/N): YES
Growth Related (Y/N): YES
Service Related (Y/N): YES
Externally Mandated (Y/N): NO

Department: Public Works - Engineering
Contact Name: Paul Vlasich

Project Description

1. General Project Description

The water main and sewer main rehabilitation programs were initially established in FY10 with a suggested expenditure of \$1,400,000 and \$850,000, respectively, every other year. The watermain program expenditures for Lincoln and Winter were approved in FY14 and construction was completed in 2016.

The area proposed for water and sewer main replacements is in the Salem/Park St area bounded by Main St, Park St, and the railroad. Both utilities require significant improvements in this section of town as shown on the highlighted sketch. There are 5,600 ft of watermains that require replacement because of undersized and/or poor condition pipes. Some of the watermains in this area were identified in the Water Asset Management Plan prepared by a consultant in May 2015 as in need of upgrades. The watermains will be upgraded to 6" and 8" mains as determined by a hydraulic analysis. The 2,825 ft of sewers scheduled for replacement are old clay sewers with joint separations and root intrusions. The drain lines were televised in FY14 in preparation of this project. The drain lines were found to be in good condition. However, there are many catch basins in poor condition that will need to be replaced.

2. Basis of Cost

Using the broad cost metrics from the Jady Hill and Lincoln Street projects and the footage of required utility replacements, the following planning level costs were developed. The engineer for Jady Hill also made adjustments based on inflation. Design costs were funded in FY19.

Cost Estimate			
FY21 Water main replacement	\$ 2,275,000	WF	
Sewer Replacement	\$ 1,480,000	SF	
Drainage improvements	\$ 330,000	GF	
Engineering Inspection/Administration	\$ 325,000	SF(\$110K)/WF(\$160K)/GF(\$55K)	
Legal & Bonds	\$ 30,000	WF (\$20K)/SF (\$10K)	
Total	\$ 4,440,000		

Total Capital Cost by Fiscal Year						
	FY20	FY21	FY22	FY23	FY24	FY25
\$	-	\$ 4,440,000	\$0	\$0	\$0	\$0
Operating Budget Impact by Fiscal Year						
Total Operating Expense (estimated) by Fiscal Year						
\$0	\$0	\$0	\$0	\$0	\$0	\$0

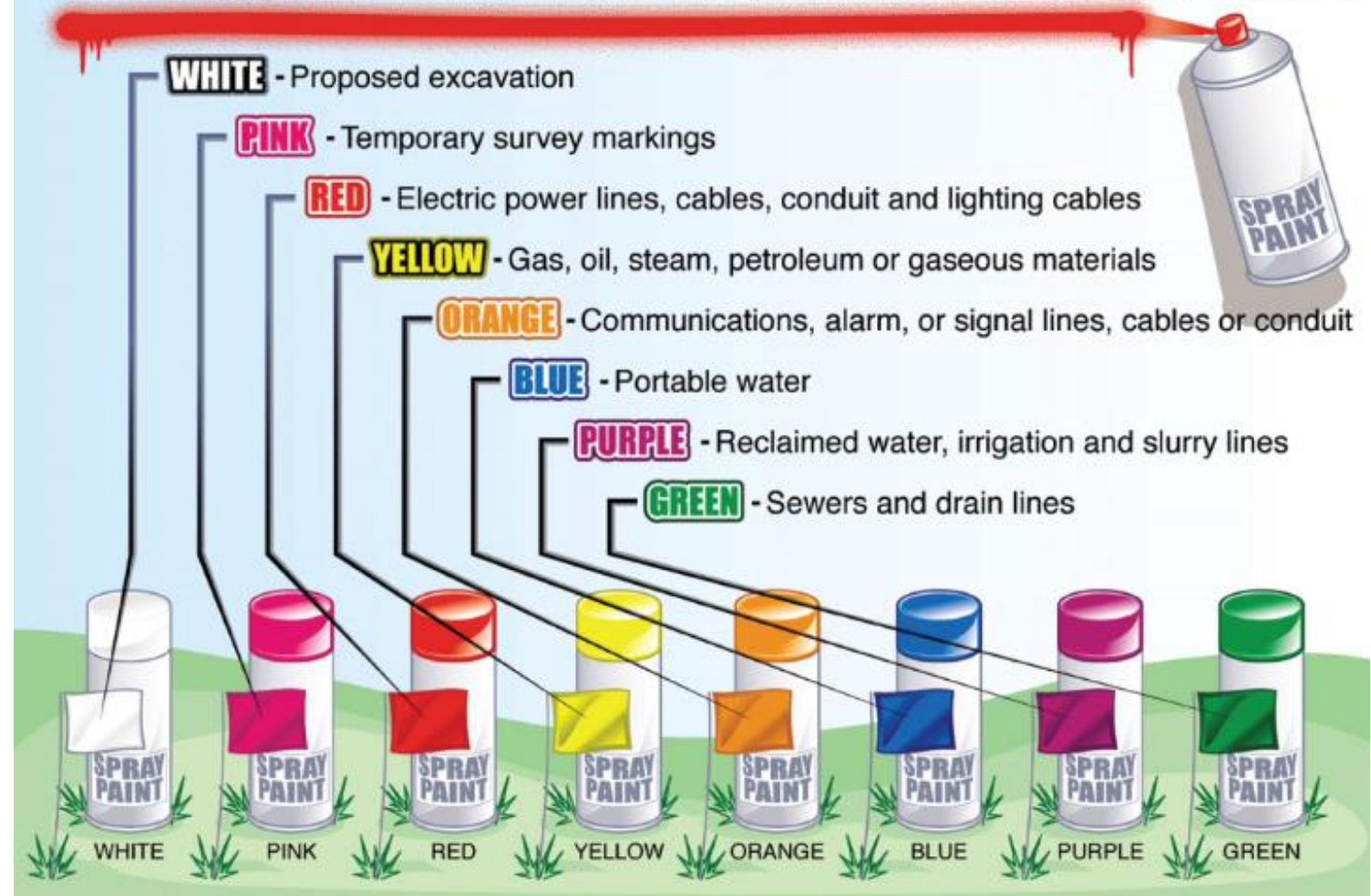
- 2015 Public Water System Asset Management Plan identified need for water main improvements
- 2009 Inflow-Infiltration Sewer Studies identified need for sewer improvements throughout town
- 2002 Water System Evaluation Study

Why Salem Street Area Utilities?

Project Activities

- Utility Markings
- Ground Survey
- Subsurface Investigation
- Limited Smoke Testing / CCTV
- Field Verification

Color Code For Marking Underground Utility Lines



Project Schedule



June 2020 - Preliminary Utility Design



Summer 2020 - Second Neighborhood Meeting



November 2020 - Final Utility Design



December 2020 –January 2021 - Bidding



March 2021 - Town Meeting to Approve Construction Funding



Spring 2021 - Construction begins



Facebook Group: <https://bit.ly/2VBcSRR> (case sensitive)



Website: <https://www.exeternh.gov/publicworks/salem-street-area-utility-improvement-project>



Jen Mates, PE, Assistant Town Engineer: jmates@exeternh.gov



Nichole Davis, Outreach Coordinator: ndavis@hoyletanner.com

Communicate with the Project Team