

TO: Infrastructure Committee
FROM : Dan Werner, Public Works Planning Director
DATE: April 18, 2017
RE: Water Main Replacement Planning

Below is a list for future planning monies. These sections include mains that need replacing due to age, frequency of repairs, type of pipe material, or all.

Cross-Country Line -Palmer Springs to Colonial Drive

This 10-inch main transmits water from the Well #2 area of Rt 116 to the water reservoir on Chipman Hill. This main was constructed in 19 ???

US Rt7/ Cady Road

Across from the Public Works Department building south to the end (1,100' south of Foster Motors). 7,500 feet, estimated cost -\$1,100,000. **Update footage and \$\$.**

Colonial Drive

Upgrade southwest leg of Colonial. Existing pipe is 2-inch universal.

Woodland Park, Meadow Way, & Swanage

Existing pipe material is Asbestos-Cement.

Exchange Street

Existing main is 12-inch **Update material and various lengths.** Area of Exchange Street north of the Catamount Park.

Mainelli Drive, Pond Lane, and Exchange Street north of Mainelli Drive are the current hot spots. Some repairs are due to corrosion; more are due to backfill material: large rocks under, to the side, and on top of the water main.

Pond Lane- 1,812 feet, \$255,000

Mainelli to Hannaford Drive 1374 feet, \$194,000.

Exchange St from Catamount Park north 3,775 feet, \$533,000.

South Street

Main Street to Porter Field Road. Existing pipe is 4 and 6 inch cast. Upgrade to 12-inch.

Gorham Subdivision – North Gorham, Center Gorham, South Gorham Lanes

These mains are 6-inch, 4-inch and 2-inch Universal pipe. This pipe is bolted together with two bolts at each joint. Failures have been corrosion holes and longitudinal cracks. The pipe exterior is getting “soft”. Paving in the area is delayed until the water main is replaced. Length -4,000 feet, estimated cost = \$565,000.

Foote Street – This pipe is 6-inch cast iron pipe. There is one more phase remaining to complete this troublesome main. Estimate is \$367,000. **Lower Foote Street is 6-inch but not included is this estimate.**

Sheep Farm Road

This section is northeast of Weybridge Street. Water main material is cast iron. Leaks are various: holes, cracks, splits. Weybridge St to Sheep Farm Rd – 2,600 feet, \$305,000. Sheep Farm Road and loop 3,400 feet, estimated cost - \$480,000.

Chipman Park entrances and Benedict Lane

This main is cast iron. Some of it was laid on ledge. Leaks are holes, cracks, and corrosion of fasteners. North Chipman Park = \$50,000, South Chipman Park = \$65,000, Benedict Lane = \$65,000.

Washington Street Extension to Happy Valley

This 6-inch main runs through the field from Washington Street Extension over to Happy Valley.

Court Square

The main is 8-inch cast-iron pipe and the leak caused by corrosion. A piece about 2-inches by 12-inches blew out. The main is getting soft due to corrosion on the outside of the pipe. There is also a 6-inch main that runs across the Square that ties in to South Pleasant Street main.

Washington Street

The main is ductile iron. A section of pipe was cut out and replaced. Improper backfill and corrosion are the likely causes.

Happy Valley Road

Consider looping to Exchange Street.