

## FIELD OBSERVATION REPORT

Project: Gas Main – Cumberland-Falmouth-Yarmouth  
Client: Towns of Cumberland, Falmouth and Yarmouth  
GP Field Rep: Benjamin Grondin (BG)  
Weather: Sunny  
Temp. Range: 70-80°F  
Time onsite: Multiple visits

GP Project No: 1636.87  
Visit Date: September 13, 2017  
Report Date: September 14, 2017

### Summit Natural Gas

Summit Personnel: Jeff Gasperini  
Crew #1: ETTi – Foreman (Matt) and 4 man crew  
Equipment: CAT mini excavator, 2 dump truck

Distribution: File, Bill Shane, Chris Bolduc, Adam Theriault, Bryan Haberman, Bryan Foster, Bert Stefanic

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### Work in Progress – Town of Cumberland

- Crew #1 installing 4" gas main on Skillin road near house #76.

### Discussions & Observations

#### Crew #1:

#### Skillin Road

- Work Zone Closure: 1 lane closed on Skillin Road with flaggers maintaining alternating one way traffic.
- Crew installed approximately 176' of 4" gas main from the existing trench on Skillin Road near house #76 to near utility pole #27 at approximately 40" depth via open trench method.
- Crew installed 4" gas main on the westbound lane side in the vegetated area behind the curb for approximately 100' beyond the driveway for house #76 before crossing Skillin Road to continue 4" gas main install behind curb on the eastbound lane side.
- Crew removed a 3' driveway apron to undeveloped land at the location of the crossing on the eastbound lane side. A 3' apron shall be replaced between the curb tip downs.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Depth of utilities are to top of pipe unless noted in table below.

Utility	Depth
6" underdrain	39"
16" water main	5'

- Crew hand excavated below the 4" gas main pipe at the location of the water main crossing. Crew located the top of the 16" water main at approximately 5'. Due to the proximity of a 6" underdrain, approximately 10" of separation was achieved between the 4" gas main and 16" water main at the crossing.
- Due to trying to maximize separation between the 4" gas main and 16" water main, approximately 6" of separation was achieved between the 4" gas main and 6" underdrain. A rock shield was placed between the 4" gas main and 6" underdrain.



- >6' of parallel separation was achieved between the 4" gas main and 16" water main on the east bound lane side.
- >3' of parallel separation was achieved between the 4" gas main and 6" underdrain on the eastbound lane side.
- Crew backfilled trench with sand around the gas main, with excavated material above the sand. Backfill was compacted in lifts with a plate wacker.
- Crew cleaned worksite and traffic returned to normal by 5:00PM

### Upcoming Work

- 4" gas main installation on Skillin Road to continue Thursday (9/14)

### Restoration Required

Location	Length of Main or # of Services	Roadway Crossing Trench Patch (1)	Driveway Crossing Trench Patch (1)	Longitudinal Road or Shldr Trench Patch (1)	Sidewalk Trench Patch (1)	Pave Pothole (1)	Restore Gravel Shldr or Driveway (2)	Loam, Seed & Mulch (2)	EC Blanket (2)	Riprap (2)	Moratorium Roadway Restoration (1)	Comments
<b>MAINS</b>												
Skillin Road	176'	X	X					X				Replace curb, driveway is undeveloped land at roadway crossing
<b>SERVICES</b>												

(1) Gorrill Palmer must observe pavement during placement

(2) Gorrill Palmer will observe restoration after completion

### Visitors on Site

- None observed.

### Concerns or Questions

- All gravel trenches within the roadway shall be monitored and repaired or treated for dust control as necessary.

### Follow up Required

- None at this time.

Prepared By: Benjamin Grondin, EI

Reviewed By: Drew Gagnon, EI

If there are any discrepancies, please notify the sender immediately



Trench behind curb on eastbound lane side.



6" underdrain crossing.



Compacting backfill with plate wacker.