

## FIELD OBSERVATION REPORT

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

GP Project No: 1636.87  
Visit Date: July 11, 2017  
Report Date: July 12, 2017

### Summit Natural Gas

Crew #1: ETTi – Foreman (Nolan) and 4 man crew  
Equipment: CAT mini excavator, Ditchwitch drill, Ditchwitch vacuum, 1 dump truck

Crew #2: ETTi – Foreman (Brandon) and 3 man crew  
Equipment: 1 – Cat Mini Excavator and 1 - One Ton Dump Truck

Crew #3: JDR – Foreman (Brad) and 2 man crew  
Equipment: Various hand tools

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

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### Work in Progress – Town of Cumberland

- Installing 4" gas main in southbound shoulder of Route 100 near house #134.
- Installed ½" gas service at 325 Tuttle Road
- Installed ½" gas service at 81 Wyman Way

### Discussions & Observations

#### Crew #1:

#### Route 100

- Work Zone Closure: One lane closed on Route 100 with flaggers maintaining two way traffic.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Crew pulled back the rods from yesterday in an attempt to realign the drill due to ledge.
- Crew installed approximately 178' of pipe from near CMP pole 3.1 to near lower driveway of house #144.
- Crew repositioned the directional drill machine to near the lower driveway of house #144.
- Crew continued to run into ledge near the location of the water service for #138. A trench was excavated near the water service to break up the ledge rock.
- Crew was able to get through the ledge rock with direction drill and continued to drill toward house #134. Crew drilled approximately 330'. Rods were left in the ground for pipe installation tomorrow (7/12).
- Depth of utilities are to top of pipe unless noted in table below.

Utility	Depth
4" gas main	4'
1" water service #134	7'1"
1" water service #136	7'



1" water service #138	5'3"
1" water service #144	5'

- Crew achieved >1' separation from existing utilities on all crossings. Crew also maintain >6' separation from existing parallel utilities. A rock shield was placed over the water service for #138 as a precaution as drill depth varies due to slope on roadway
- Crew backfilled trench and potholes with excavated material. Existing material was used as backfill. Backfill was compacted in lifts with a jumping jack.
- Crew clean worksite and traffic returned to normal at approximately 5:30 PM.

**Crew #2:**

**325 Tuttle Road**

- Work Zone Closure: 1 lane closed on Tuttle Road with flaggers maintaining alternating one way traffic.
- Crew installed 1/2" gas service by open trench and automatic punch method. Service was installed such that >1' of separation was achieved between the 1/2" gas service and sewer crossing.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Utility Data:

Utility	Depth
12" Gas Main	3'5"
Sewer Main	4'5"+

- Crew backfilled trench with sand around the gas main, with excavated material above the sand. Backfill was compacted in lifts with a jumping jack.
- Cold patch was placed in the trench and compacted with a jumping jack.
- Crew sawcut 1' setbacks from the edges of the trench.

**Crew #2:**

**81 Wyman Way**

- Work Zone Closure: 1 lane open for local traffic on Wyman Way.
- Crew installed 1/2" gas service by open trench method.
- Crew hand excavated to a previously installed sleeve on the property owner side of the sidewalk.
- All utilities located via manhole inverts, camera, electronic locator, or hand excavated.
- Utility Data: Crew fed 1/2" gas pipe through existing sleeve therefore, no utilities were crossed
- Big returned to the site at approximately 12:00pm. Crew was not onsite and it appeared the gas service had been completed. It appeared the hand excavated area was backfilled with a well compacted material.

**Upcoming Work**

- Continue main install on Route 100 tomorrow (6/12)



### 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>												
Route 100	<b>178'</b>			<b>X</b>		<b>X</b>		<b>X</b>				Pothole in #136 driveway.
325 Tuttle Road	<b>1</b>			<b>X</b>				<b>X</b>				
81 Wyman Way	<b>1</b>							<b>X</b>				

- (1) Gorrill Palmer must observe pavement during placement  
(2) Gorrill Palmer will observe restoration after completion

### Visitors on Site

None

### Concerns or Questions

None at this time.

### 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



Compacting road near #138 water service on Rt. 100



Compacting backfill on Tuttle road





Cold patch placed at Tuttle Road



Crew sawcutting 1' setbacks at Tuttle Road