

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: August 10, 2017
Report Date: August 11, 2017

Summit Natural Gas

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

Crew #2: B&S Paving – Foreman (Rick) and 5 man crew
Equipment: Volvo mini-excavator, 3 ton vibratory roller, 2 dump trucks, various hand tools

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

Work in Progress – Town of Cumberland

- Crew #1 installing 4" gas main in the southbound shoulder on Route 100 from near The Maine Alpaca Blanket to the previously installed 4" gas main in the vegetated area at the corner of Blackstrap Road.
- Crew #2 paving various locations with 12.5mm HMA.

Discussions & Observations

Crew #1:

Route 100

- Work Zone Closure: One lane closed on Route 100 with flaggers maintaining alternating one way traffic.
- Crew installing 4" gas main via open trench method.
- Crew installed approximately 340' of 4" gas main at approximately 3'4" depth.
- 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
12" Stormdrain (Crosses Route 100 near Copp Motors)	3'9"
12" Stormdrain (Southbound shoulder of Route 100)	4'

- Crew was not able to achieve >1' separation on the Stormdrain crossings due to the depth required to pass under them and the location of a nearby utility pole. A rock shield was placed between the Stormdrain and gas main at each crossing. Crew achieved >3' separation from the Stormdrain for the



section of gas main that is parallel to the Stormdrain. Crew achieved >6' of parallel separation from all other utilities.

- Crew had to remove a section of granite curb near the utility pole in the vegetated area for the gas main installation. BG was not onsite for the replacement of the granite curb.
- Crew backfilled trench with sand around the gas main and existing material. Backfill was compacted in lifts with a plate wacker.
- Cold patch was not placed in the longitudinal roadway trench due to the size and location of the trench. The gravel trench shall be monitored and repaired as necessary.
- Crew placed loam, seed, and hay mulch in the disturbed vegetated areas.
- Crew sawcut approximately 1' cutbacks on trench edges.
- Crew clean worksite and traffic returned to normal at approximately 5:15 PM.

Crew 2:

B&S Paving

- Work Zone Closure: 1 lane closed at various locations with flaggers maintaining alternating one way traffic.
- Crew removed saw cut pavement and compacted gravel with a plate wacker.
- Edges of pavement were cleaned and tacked prior to placing 12.5mm HMA.
- Crew did not tack the edges of the trench at the corner of Blackstrap Road prior to placing the first lift of 12.5mm HMA. BG indicated to Rick all edges needed to be tacked prior to placing HMA. Crew tacked the edges of pavement before placing additional lifts.
- Ambient air temperature at time of paving was approximately 68°F.
- Crew hand placed 12.5mm HMA in trench area.
- Crew used two loads of 12.5mm HMA for trench paving. Load one was measured to be 287°F at approximately 7:30AM which conforms to the MaineDOT Standard Specification. The load was used for trenches at Friar Lane, corner of Blackstrap Road, West Cumberland Fire Department, and ½ of the trench at the driveway crossing for the Westside Animal Hospital. Load 2 was measured to be 320°F at approximately 12:30PM which conforms to the MaineDOT Standard Specification. The load was used for the second half of the driveway crossing trench at the Westside Animal Hospital and the driveway crossing at the Cumberland House of Pizza.
- Crew placed 12.5mm HMA in lifts with each lift compacted with a plate wacker. The final lift was compacted with a plate wacker and 3 ton vibratory roller.
- Crew cleaned worksite and traffic returned to normal by approximately 3:30 PM.

Upcoming Work

- B&S to continue paving trenches on Route 100 (8/14)



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
MAINS												
Route 100	340'			X				X				
SERVICES												

- (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



Placing 12.5mm HMA in trench at the corner of Blackstrap Road



Longitudinal roadway trench for gas main install



Compacting 12.5mm HMA with 3 ton roller at Westside Animal Hospital