

AECOM

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	June 25, 2020
Location:	Maiden Lane, Route 68, Maple St., and Shared Access Driveway	Day of Week:	Thursday
Project #:	AECOM: 60614871	Report No:	106
Contractor:	Ludlow Construction	Page:	1 of 11

Weather Conditions

Conditions: Daylight hours. Sunny. Winds variable 0-9 mph.

Temperature (°F): High 85°F Low 58°F

Contractors & Subcontractors Workforce					Equipment in Use							
Trade	#	x	hrs		Trade	#	x	hrs	Type	#	x	hrs
USACE					Ludlow Construction				Concrete/Asphalt Road Saw	1	x	8
Field Engineer	1	x	8		Superintendent	0	x	8	Dump truck	5	x	8
					Safety Officer	2	x	8	Excavator – Large	3	x	8
					Foreman	3	x	8	Excavator - Mid-Size	1	x	8
					Dump truck Operator	4	x	8	Excavator - Rubber Wheeled – Rock	2	x	8
					Excavator Operator	4	x	8	Skid Steer / Bucket Loader	2	x	8
					Skid Steer/Bucket Loader	1	x	8	Rolling Compactor	1	x	8
					Laborers	6	x	8	Plate Compactor	1	x	8
					<i>Note that some persons</i>				Jumping Jack Compactor	1	x	8
					<i>Multiple pieces equipment.</i>				Street Sweeper (Broce Broom)	2	x	8
									Material Hopper	1	x	8
					Sub-contractor	1	x	8	Pipe saw	0	x	8
					Municipal Police Detail	0	x	8	Light Tower	0	x	8
					State Police Detail	2	x	8	Dozer	1	x	8

Visitors: None.

Pipe Connections and Installations

Ludlow installed 12" TR Flex DIP from Stations 403+35 to 403+85 and 12" DIP from 403+85 to 404+35 on Maiden Lane in Durham. This includes the installation of two 1-inch corporation stops at Stations 403+45 and 403+70.

Ludlow began the installation of a Fire Hydrant at the corner of Maiden Lane and Route 17 (Main St.). The hydrant was to be on the south side of the Maiden Lane, however, there was insufficient room according to USACE, who stopped the installation with the idea that the hydrant be installed on the opposite side of Maiden Lane. There has been no confirmation from the Durham Fire Department on this change at this point.

Ludlow installed 41 feet of 12" TR Flex Pipe, 34 feet of which was in State Rte. 68, and one 11-1/4 turn, from the center of Route 68 (Wallingford Road) onto Maple Street south of Rte. 68. Stations 920+59 and 920+18.

Ludlow installed 7.5 feet of 4" DIP halfway across Route 17 Main Street – service line for Durham Manufacturing. They crossed the southbound lane. Due to the amount of bedrock encountered, Ludlow decided to postpone crossing the northbound side till another day and switch to making sandbags for the brook crossing on Picket St.

Ludlow placed fabric and graded fill around the perimeter of the water tank pad.

Ludlow performed saw cutting of pavement on Maple Avenue between Stations 931+00 and 933+00. Ending at 212 Maple St.

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Ludlow performed pressure test on Route 68 (Wallingford Rd.) from Stations 600+00 to 609+53.

Compaction Testing

Soil compaction testing was performed at the Tank Pad for elevations/lifts 466 and 467. Compaction testing was also done along Maiden Lane pipe installation. No data was immediately available on site as the Proctor was still at the lab being analyzed. Finalized results will be posted after the field results have been adjusted for the site-specific Proctor. Compaction test data for the project can be found here:

<https://www.nae.usace.army.mil/Portals/74/docs/Topics/DurhamMeadowsWaterline/CompactionTests/>

In addition, soil compaction data is presented in the Contractor Daily Quality Control Reports located here:

<https://www.nae.usace.army.mil/Missions/Projects-Topics/Durham-Meadows-Water-Lines-Project/>

Daily Activities –Shared Access Driveway, Middletown

Ludlow placed fabric and graded fill around the perimeter of the water tank pad. The base will support the 10-foot wide road around the finished water tank.

1145: Ludlow working on drain basin at bottom of slope. Fixing silt fabric.

1200: Ludlow is placing fabric and stone grading fill around the perimeter of the water tank footprint.

1220: Compaction testing done on the tank pad on both the north and south side of the pad for elevations/lifts 436 ft. and 437 ft.

1230: Ludlow is compacting the fill placed while waiting for next truck load of stone.

Daily Activities –Maple Avenue, Durham

Ludlow performed saw cutting of pavement between Stations 931+00 and 933+00. The pavement cutting appears to end at 212 Maple street driveway.

1100: Ludlow begins saw cutting a 200-foot stretch of Maple Ave. ending at the south side of the drive to 212 Maple Ave.

1245: Saw cutting continues.

Daily Activities – Installations, Route 68, Durham

Ludlow conducts pressure test on Route 68 (Wallingford Road) in Front of 47 Wallingford Road. The test covered 12" water main from Station 600+00 to 609+53. Ludlow installs 41 feet of pipe from the center of Route 68 southward onto Maple Street south of Wallingford Rd. Stations 920+59 and 920+18. Reported 83 feet state road sawcut and 14 feet town road sawcut plus 17.44 cubic yards of rock excavation.

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0730: Ludlow preps the hydrant and sets pressure at 155 PSI for water line test along Route 68. Test begins at 0735.

0800: Ludlow is trenching from the center of Route 68, southward onto Maple Ave.

0855: Inspected pressure test hydrant. Took photo.

0930: Ludlow finishing backfill and compaction on Wallingford Road (Route 68) pipe installation to Maple Ave.

0958: Ludlow begins hot patch.

1020: Hot patch complete and Ludlow mobilizing to Route 17 south of Route 68, to install pipe across Route 17 (Main St.) for Durham Manufacturing Service.

1055: Final check on pressure test. System held pressure for 3 hours.

Daily Activities – Route 17 (Main St.) Durham

1130: Working on installation of service line to Durham Manufacturing.

1312: Service line, 4" Pipe x 7.5 feet installed from Station 198+10. Crew has backfilled and awaiting hot patch. Decision not to cross entire road today because of the amount of bedrock excavation encountered.

Daily Activities – Installation of 12" DIP, Maiden Lane, Durham

Ludlow installed 50 feet of 12" TR Flex DIP from Stations 403+35 to 403+85 and 50 feet of 12" DIP from 403+85 to 404.35 – total 100 feet of pipe - on Maiden Lane in Durham. This includes the installation of corporation stops at Stations 403+45 and 403+70. A total of 71.29 cubic yards of rock was excavated (100'x3.5'x5.5').

0900: Ludlow resumes the installation of 12" DIP on Maiden Lane starting at Station 403+34 and working east. A 20-foot section is already in the ground and the next section is being hammered due to shallow ledge, which appears to run the course of trenching at various depths.

0910: Ludlow completes ledge excavating for this section.

0915: Ludlow is installing road box at corner of Maiden Lane and Main Street. This is for a hydrant installation that was later stopped by the Corps. due to space issues at the edge of the road. Trench refilled.

1115: Ludlow has refilled the trench for the hydrant. They continue to install 12" DIP eastward down Maiden Lane. Two curb stops installed.

1317: Ludlow getting ready to install final 20-foot length of pipe before switching over to closing activities for the day.

1330: Compaction testing being conducted Maiden Lane.

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1345: Ludlow has finished the installation of 12" DIP at Station 404+35. Ludlow is currently placing and compacting fill in the trench.



Picture 1: Ludlow begins pressure test. This is a shot taken by Ludlow on left and hydrant on right.

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Picture 2: Two additional shots of pressure gage for test on Route 68, Wallingford Road. System held pressure for over three hours.

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Picture 3: Ludlow completing backfill and compaction at Maple Ave. and Wallingford Road (Route 68). View to the south.



Picture 4: Starting hot patch at Maple Ave. and Wallingford Road (Route 68). View to the south.

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Picture 5: Completed patch (behind police detail) at Maple Ave. and Wallingford Road (Route 68). View to the southeast.



Picture 6: View facing south on Maple Ave. Road cutting. Driveway to the right is 212 Maple Ave., driveway to the left is the back entrance to the Notre Dame church that faces Main St.

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Picture 7: Shallow ledge at roughly 403+70 feet on Maiden Lane. This was the shallowest ledge section in today's trenching. It required hammering before removal. View is to the west.



Picture 8: Facing south, intended hydrant at corner of Maiden and Main (to right). Hydrant not installed. Near station 401+00

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Picture 9: One of two curb stops installed on Maiden Lane, marked by 2x3 stake. View to the south.



Picture 10: Facing southeast (Mailbox is 18 Maiden Lane), setting final pipe of the day.

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Picture 11: Ludlow finishing up road closing on Route 17, Main Street, across from Durham Manufacturing. Due to amount of bedrock encountered, Ludlow decided to only go halfway across today. View is to northwest.



Picture 12: Facing east. View to top of slope to tank area.

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Picture 13: Facing east. Filling on top of matting gravel base for road around tank.



Picture 14: Facing southeast. Gravel filled road base in foreground. Tank base with mark outs (to right) for pipe trenches. Another 2.8 feet of fill to still be placed on tank base.

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