

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	July 1, 2020
Location:	Main Street, Pickett Lane, and the Shared Access Driveway	Day of Week:	Wednesday
Project #:	AECOM: 6061487	Report No:	111
Contractor:	Ludlow Construction	Page:	1 of 18

Weather Conditions

Conditions: Daylight hours. Partly sunny. Winds variable 0-3 mph.

Temperature (°F): High 79°F Low 63°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	1	x	8	Excavator – Large	3	x	8
					Foreman	2	x	8	Excavator - Mid-Size	1	x	8
					Dump truck Operator	4	x	8	Excavator - Rubber Wheeled – Rock	0	x	8
					Excavator Operator	4	x	8	Skid Steer / Bucket Loader	1	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)	1	x	8
									Material Hopper	1	x	8
					Sub-contractor	3	X	8	Pipe saw	1	x	8
					Municipal Police Detail	0	X	8	Light Tower	0	x	8
					State Police Detail	1	X	8				

Visitors:

Pipe Connections, Installations, and Other Work

Ludlow continued work on the stream crossing on Pickett Lane at Station ~511+00.

Ludlow continued worked on the water tank footprint at the top of the Shared Access Driveway.

Ludlow subcontractor performed pavement saw cutting activities today on Main Street.

Compaction Testing

Soil compaction testing was performed today. 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/>

Res. Representative:

J. Meunier

Date: 7/01/20

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Daily Activities –Shared Access Driveway, Middletown

Ludlow continued work on the water tank footprint at the top of the Shared Access Driveway.

0704: Ludlow is staging to resume work at the water tank footprint at the top of the Shared Access Driveway.

0751: Ludlow has resumed earth work at the water tank footprint. Ludlow is finishing up with a 4" lift to bring structural fill to elevation 437. Ludlow is currently rolling the fill with a 15-ton roller.

0804: JTC is performing compaction test at elevation 437 on the 4" lift of structural fill they just finished placing.

0847: Ludlow is placing grade stakes in the water tank footprint.

0855: Ludlow subcontractor is saw cutting pavement on Main Street at Station ~159+00.

0905: Ludlow starts to place additional structural fill on top of elevation 437 at the water tank footprint.

0942: Ludlow has brought the elevation of structural fill up to 437.67 on about 90% of water tank footprint. Ludlow is building up a circle of fill within the water tank footprint (see attached photos).

1021: Ludlow continues to work on bringing the center of the water tank footprint up to elevation 437.67.

1101: Ludlow continues to work on bringing the center of the water tank footprint up to elevation 437.67. They are currently compacting the structural fill with the jumping Jack around the grade stakes.

1142: Ludlow is placing and compacting structural fill to elevation 438.33. Fill is being placed and compacted in 8" lifts, with JTC collecting compaction data from 4 locations on each lift.

1210: Ludlow is waiting for JTC to arrive back on site to collect soil compaction data for the elevation 438+34 lift.

1237: JTC arrives at the water tank footprint and collects soil compaction data for the elevation 438+34 lift.

1253: JTC performs soil compaction tests at four locations on the 438.34 lift. Ludlow resumes the placement of structural fill up to elevation 439.

1343: Rain begins to fall.

1406: Heavy rain falling; thunder also observed.

1426: After waiting for the rain to subside, Ludlow decides it cannot continue placing fill. JTC is unable to collect soil compaction data for the elevation 439 lift.

Daily Activities – Stream Crossing, Pickett Lane, Durham

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Ludlow continued work on the stream crossing on Pickett Lane at Station ~511+00.

0654: AECOM inspects Allyn Brook at Station 511+00. Turbidity in the brook appears to have returned to normal levels.

0721: Ludlow is excavating a test pit about 40 feet east of the shoreline of Allyn Brook at Station ~511+00 to daylight an existing water line and other utilities.

0736: Ludlow continues test pit activities on Pickett Lane at station ~511+00.

0800: Ludlow continues with test pit activities to locate utilities.

0835: Ludlow locates water line ~20' from where they began test pitting.

0850: Ludlow backfills test pit. Bob Christie and Lisa Belisle of the USACE are present at the work zone.

0900: Ludlow begins work to move 40" stream flow bypass culvert to the eastern bank of the stream crossing work zone.

0915: Ludlow begins to excavate revetment stone from the east bank of Allyn Brook at the work zone in order to create a straight line of the stream bank for the placement of the 40" stream flow bypass culvert. This work causes silt to breach the line of sandbags located downstream of the work zone.

0925: Turbidity is clearly visible 200' downstream of the work zone at Station ~511+00.

0955: Ludlow subcontractor is saw cutting pavement on Main Street near the intersection with Route 147.

1140: Ludlow has installed the new 40" stream flow bypass culvert along the east side of Allyn Brook at the Station ~511+00 work zone. Elevated turbidity is still being observed downstream of the work zone. Ludlow installs a pump in the work zone.

1150: Ludlow is replacing revetment on the bank of Allyn Brook east of the work zone.

1210: Ludlow is constructing a silt basin for water pumped from the work zone to be discharged into. The basin is constructed of gravel and filter fabric. The downslope side of the basin has been lined with hay bales supported with sandbags. While excavating the silt basin, Ludlow encountered a concrete structure – possibly a drainpipe. Silt is getting past the 40" stream flow bypass culvert along the east side of Allyn Brook. Elevated amounts of silt are also observed to be bypassing the silt basin and flowing into the brook.

Daily Activities – Saw Cutting of Pavement, Main Street, Durham

Ludlow subcontractor performed pavement saw cutting activities at several locations on Main Street.

0855: Ludlow subcontractor is saw cutting pavement on Main Street at Station ~159+00.

1240: Ludlow subcontractor is saw cutting at Station ~196+50. A CT State trooper is providing traffic management.

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Picture 1: Work Zone on Allyn Brook at Station ~511+00 before Ludlow began work today. Pickett Lane, Durham. View to the north.

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Picture 2: Ludlow subcontractor saw cutting pavement on Main Street in Durham. View to the north.

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Picture 3: Ludlow in the process of moving sandbags after placing 40" stream flow bypass culvert on the east bank of Allyn Brook. View to the north. Pickett Lane, Durham.

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Picture 4: Ludlow building a silt retention basin on the east side of Allyn Brook at Station ~511+00. Pickett Lane, Durham. View to the northeast.

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Picture 5: Elevated silt load entering Allyn Brook at Station ~511+00 from silt retention basin. Pickett Lane, Durham. View to the north.

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Picture 6: Ludlow excavating test pit to the east of Allyn Brook at Station~511+00. Pickett Lane, Durham.

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Picture 7: Ludlow compacting 4" lift of structural fill that brought the elevation within the water tank footprint up to 437. Shared Access Driveway, Middletown. View to the southeast.

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Picture 8: JTC collecting soil compaction data at elevation 437 at the water tank footprint. Shared Access Driveway, Middletown. View to the southeast.

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Picture 9: Benchmark that Ludlow surveyor Juliano Associates brought to the top of the Shared Access Driveway yesterday. View to the north.

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Picture 10: Ludlow setting up grade stakes on the water tank footprint at elevation 437. Shared Access Road, Middletown. View to the southeast.

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Picture 11: Ludlow begins to place structural fill in an 8" lift at elevation 437. Shared Access Driveway, Middletown. View to the southeast.

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Picture 12: Ludlow continues to place structural fill in an 8" lift at elevation 437. Shared Access Driveway, Middletown. View to the southeast.

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Picture 13: Closeup of the structural fill being placed in the water tank footprint. Shared Access Driveway, Middletown. View to the southeast.

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Picture 14: Ludlow compacting structural fill at elevation 437. Shared Access Driveway, Middletown. View to the southeast.

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Picture 15: Ludlow compacting structural fill at elevation 438.34. Shared Access Driveway, Middletown. View to the southeast.