

Daily Report

Project:	Durham Meadows Pipeline Installation	Date:	September 02, 2021
Location:	Maple Avenue and Maiden Lane, Durham	Day of Week:	Thursday
Project #:	AECOM: 6061487	Report No:	315
Contractor:	Ludlow Construction	Page:	2 of 18

0935: Ludlow is daylighted the corporation stop at 109 Maple Avenue and found that it had been installed correctly. Ludlow has excavated between the curb stop and the meter pit to further investigate the reason they are not getting water to flow east of the meter pit. Ludlow is currently pumping water out of the excavation located east of the curb stop and discharging the water south of the driveway for 109 Maple Avenue into a brushy area.

1041: Ludlow is backfilling between the meter pit and the curb stop at 109 Maple Avenue after they discovered that the lack of water flow east of the meter pit was due to a small piece of rag that was plugging up a fitting between the meter pit and the 1.5" copper water line.

1208: Ludlow has begun to excavate on the east side of the curb stop for 129 Maple Avenue as they prepare to install a 1.5" copper water service line.

1300: Ludlow is placing a meter pit in the trench for the 129 Maple Avenue water line installation. Water is observed in the bottom of the excavation; most of it appears to be flowing in from the sidewalls of the excavation, possibly due to last night's storm event. Ludlow is pumping water out of the pit across the street into the field of an empty lot.

1312: Ludlow has placed a section 1.5" copper water pipe between the curb stop and the meter pit for 129 Maple Avenue.

Daily Activities – Maiden Lane stream crossing, Durham

Ludlow continued construction activities at the Maiden Lane stream crossing.

0716: Ludlow is staging on the westbound lane of Maiden Lane at Station 412+20 (east of the Ball Brook stream crossing) to daylight a previously-installed gate valve and connect additional 12" DIP.

0729: Ludlow is saw cutting the footprint of trenches on the westbound lane of Maiden lane on the east and west side of the bridge located immediately downstream of the Maiden Lane stream crossing as they prepare to install 12" DIP.

0809: Ludlow has daylighted a 12" gate valve on Maiden Lane that they installed last year Station 412+20. Some water is observed in the bottom of the excavation. Ludlow is preparing to install a trench box in the excavation.

0841: Ludlow has placed a water depression pump in the bottom of the excavation at Station 412+20 on the westbound lane of Maiden Lane. Ludlow is pumping the water into a silt bag located on the north side of the road.

0917: Ludlow just removed a plug from the west side of the gate valve at Station 412+20. Ludlow is preparing to place a second trench box northwest of the first trench box to assist in the installation of 12" DIP.

0928: Ludlow begins to place a section of 12" DIP on the west side of the gate valve they just daylighted at Station 412+20.

1028: Ludlow has placed about 20' of 12" DIP to the northwest of Station 412+20. Ludlow is placing sand over the 12" DIP they just installed and is compacted it with the jumping Jack.

1101: Ludlow begins excavating at Station 410+47 on the west side of the Maiden Lane stream crossing to daylight the bell of a section of previously-installed DIP.

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1133: Ludlow continues to excavate on the westbound lane of Maiden Lane at Station 410+47 to install 12" DIP in a northeast direction towards the stream crossing to connect to the 12" DIP they installed on the west bank of Ball Brook yesterday.

1229: Ludlow has installed a ~6' section of 12" DIP to the bell of previously-installed DIP at Station 410+47.

1241: Ludlow has installed 45° DIP followed by a 10' section of 12" DIP to the ~6' section of 12" DIP Ludlow just connected to the bell of previously-installed DIP at Station 410+47.

1339: Ludlow continues to install 12" DIP on the west side of Ball Brook.

1349: Tilcon delivers two truckloads of flowable fill to the excavation on Maiden Lane at Station 412+20.

1353: The first of the two Tilcon trucks starts to place flowable fill in the excavation at Station 412+20.

1404: The second of the two Tilcon trucks starts to place flowable fill in the excavation at Station 412+20.

1429: Ludlow has finished connected 12" DIP between Stations 410+47 and 411+30.

1447: Ludlow is placing steel plates over the excavation located east of the Maiden Lane stream crossing after filling the excavation with flowable fill

1457: Ludlow is placed asphalt on the edges of the steel plates they put over the excavation east of the maiden Lane stream crossing on the westbound lane of Maiden Lane.

Daily Activities – Storm assessment

AECOM performed an assessment of erosion at the site after the storm event last night. The erosion control measures that Ludlow placed yesterday for the properties at 10 Johns Way and 95R, 97, 109, and 119 Maple Avenue performed well. A small amount of silt and fines needed to be cleaned up on the downgradient side of the straw wattles place at the edge of the road at 119 Maple Avenue. The meter station, the booster station, and the PRV vault sites all showed no signs of erosion. The Shared Access Driveway also showed no significant signs of erosion. At the Maiden Lane stream crossing, the hay bales on the east side of the brook were swept away by high water flow and the silt fence was knocked flat. On the west bank of the Ball Brook, water pushed past the silt fence and hay bales next to the bridge abutment. Ball Brook was observed to be running very high, but it appears that the rip rap that Ludlow placed on the stream bed and bank remained in place.

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Picture 1: The Maiden Lane stream crossing, looking to the northwest. Heavy stream flow from last night's storm event has washed the hay bales that Ludlow placed on the east bank of Ball Brook downstream and flattened the silt fence.

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Picture 2: Silt fence and hay bales that Ludlow placed yesterday on the west bank of Ball Brook at the Maiden Lane stream crossing that were moved or damaged by last night's storm event. View to the south.

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Picture 3: Rills located on the north side of the turnout on the Shared Access Driveway at Station 14+00 that were made deeper by last night's storm event. View to the southeast.

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Picture 4: Sediment that has stacked up against the silt fence located on the north side of the Shared Access Driveway at Station 14+00. View to the north.

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Picture 5: Ludlow cleaning up a small amount of silt/fines that washed off the 119 Maple Avenue property during last night's storm event. View to the north.

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Picture 6: Ludlow daylighting the southbound lane of Maple Avenue to inspect corporation stop for the 109 Maple Avenue residence. View to the southeast.

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Picture 7: Ludlow inserting a section of 12" DIP into an existing gate valve located at Station 412+20 east of the Ball Brook stream crossing.

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Picture 8: Ludlow located and cleared a clogged fitting where the copper water line connects to the west side of the meter pit at 109 Maple Avenue. View to the south.

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Picture 9: Ludlow compacting sand placed over 12" DIP they installed west of the gate valve at Station 412+20. View to the northwest.

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Picture 10: 12" DIP that Ludlow has placed between Stations 410+47 and ~411+30 west of Ball Brook as part of the Maiden Lane stream crossing. View to the north.

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Picture 11: Ludlow placing 1.5" copper water service line between the curb stop and the meter pit for 129 Maple Avenue. View to the south.

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Picture 12: Silt bag Ludlow used to discharge water pumped from the excavation located at Station 412+20 Maiden Lane. View to the northwest.

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Picture 13: 12" DIP that Ludlow has placed from Stations 410+47 and 411+30 as part of the Maiden Lane stream crossing. View to the northeast.

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Picture 14: Ludlow placing the final section of 12" DIP on the west side of the Ball Brook stream crossing to complete the connection to 12" DIP that Ludlow installed in Maiden Lane last year. View to the east.

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Picture 15: Ludlow overseeing a Tilcon truck placing flowable fill into the excavation at Station 412+20 Maiden Lane. View to the east.

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