

## FIELD OBSERVATION REPORT

Project: Longmeadow Rd & Ole Musket Rd – Drainage Improvements  
Client: Town of Cumberland  
GP Field Rep: Kassey Northrop (KN)  
Weather: Cloudy, Rain  
Time onsite: 10:00 – 11:00 AM/ 3:30 – 4:30 PM  
Contractor: A.H. Grover, Inc.  
Distribution: File; Town of Cumberland

GP Project No: 3656  
Visit Date: April 4, 2023  
Report Date: August 4, 2023  
Temp. Range: 45-50°F

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### **Work in Progress**

- A.H. Grover, Inc. has installed CB #28 and is continuing to excavate towards proposed CB #27.

### **Work Conducted by GP Representative**

- Review the construction for drainage improvements on Ole Musket Road.

### **Discussions & Observations**

#### **Overall Ole Musket (04/04/22)**

- Prior to arrival in the morning, A.H. Grover, Inc. had installed CB #28 on material consistent with  $\frac{3}{4}$ " crushed stone and continued the 63 feet of previously installed 15" SD pipe to CB #28, resulting in a total of 90 feet of pipe installed between Exist. CB #2 and CB #28. (Photo 1)
  - Rock excavation was required to install the remaining pipe and CB #28.
- While on site, A.H. Grover, Inc. started excavating the trench area proposed for the 15" SD between CB's #27 & #28. (Photo 2)
  - Ledge rock did not appear to be present within the first approximately 20 feet (starting from CB #28) of the excavated trench due to the previously installed watermain.
  - Ledge rock was present there-after at a depth of approximately 2.5' below existing grade, to the base of the trench. The rock excavation continues to significantly slow down production. (Photo 3)
  - Approximately 12 feet of 15" SD pipe was embedded with material consistent with MDOT 703.22 Type C –  $\frac{3}{4}$ " Crushed Stone (Photo 4) from CB #28 towards proposed CB #27 within the excavated area of the trench where ledge rock was not present. The 12 feet of 15" SD pipe was then backfilled approximately 1.75 feet from the spring line with material consistent with MDOT 703.22 Type B UD Backfill.
  - 2" Rigid installation was observed to be installed over the watermain prior to installing the 15" SD.
  - A.H. Grover, Inc. upon installing the 12 feet of pipe, worked on rock excavating the rest of the trench area, as well as the proposed area for CB #27. The efforts for rock excavating required the rest of the day, therefore no additional pipe or CB #27 was installed today upon the 12 feet.
  - Excavated material was used to backfill the 12 feet of pipe, up to the subbase layer and then material consistent with MDOT 703.06, Type D was installed for subbase.
- During excavating the area for CB #27, the underground telephone conduit was located and efforts, such as hand shoveling, were made to prevent any damage.
  - While excavating this area, an irrigation system, belonging to Mark Segrist of house #16 was damaged. (Photo 5) The irrigation system was located within the right-of-way and it's presence was unknown to A.H. Grover, Inc. Ultimately due to it's location with the right-of-way, it is not A.H. Grover, Inc.'s responsibility to fix, although upon discussion with Lee and Ben Grover, if they are able to fix it without great effort, they will. KN notified Mark Segrist of the incident, and explained it was in the right-of-way in which he knew and was understanding about. It is assumed more irrigation systems may be damaged if in the right-of-way, therefore A.H. Grover, Inc. will make efforts to avoid them if practicable.



- The table below reflects the approximate quantities as of the end of the day April 4, 2023:

Item/Description	Units	Quantity to Date (04/04/23)
203.21 - Rock Excavation	CY	47.5
603.169 – 15" Culvert Pipe III	LF	102
604.131 – 4' Diameter CB	EA	1
604.161 – Altering Catch Basin	EA	1

**People on Site**

- Ben Grover; A.H. Grover, Inc.  
➤ Lee Grover; A.H. Grover, Inc.  
➤ 3-4 Person Crew; A.H. Grover

**Concerns or Questions**

- Monitoring the ledge rock

**Action Items**

- **Communicate with homeowners as needed.**

Prepared By: Kassey Northrop

Reviewed By: Doug Reynolds, PE

If there are any discrepancies, please notify the sender immediately.





## **Photos**



Photo 1 – CB #28 installed



Photo 2 – Excavating trench for proposed 15" SD between CB's #27 & #28





Photo 3 – Significant ledge rock in area proposed for CB #27



Photo 4 –  $\frac{3}{4}$ " crushed stone being placed for 15" SD pipe.





Photo 5 – Irrigation system (circled in red) damaged from excavation.