

# FIELD REPORT #015

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<b>Date:</b>	October 31, 2022	<b>Project #:</b>	2021-083	<b>Page 1 of 3</b>
<b>To:</b>	Town of Effingham 68 School Street Effingham, NH 03882	<b>Project:</b>	Bailey Road Culvert Replacement	
<b>Email:</b>	townofeffingham@effinghamnh.net	<b>Location:</b>	Effingham, NH	
<b>Prepared By:</b>	Eric Schroeder	<b>Owner:</b>	Town of Effingham	
<b>Reviewed &amp; Approved By:</b>	Christopher Fournier, PE	<b>Contractor:</b>	Jake Dawson's Excavation & Utility Services, LLC	
		<b>Weather Conditions:</b>	60° Sunny	

## SITE VISIT

Arrived at site: 1:00 PM

Left site at: 2:00 PM

### Personnel & Equipment on site:

- » HEB Engineers, Inc. (HEB): Eric Schroeder
- » Jake Dawson's Excavation & Utility Services, LLC (Dawson's): Andy (Foreman), 1 Laborer
- » Dawson's Equipment:
  - 1 Case Loader, 621F (idle)
  - 1 Case Excavator, CX145DSR
  - 1 Case Excavator, CX245DSR (idle)

### Visitors to site:

- » None.

### Purpose of Site Visit:

- » To observe the backfill of the first phase of concrete box culvert installation.

### Work Performed by Contractor since last site visit:

- » The Contractor had placed wingwalls on either side of the box culvert.
- » The Contractor had begun backfilling both sides of the box culvert with granular backfill (see Photo 1).
- » The Contractor installed barrier membrane to the top and sides of the culvert.

### Work Performed by Contractor during HEB site visit:

- » The Contractor continued to dewater the excavation.
- » The Contractor continued backfilling the sides of the box culvert with 8-inch lifts. Each lift was then compacted with a plate compactor.

### Items discussed/observed:

- » The Contractor informed the Engineer that they were ready to backfill at 8:00 AM this morning. The Engineer responded that S.W. Cole, the material testing company, was unavailable until the following day. The Contractor was reminded they are contractually obligated to inform the Engineer at least 48 hours in advance for backfilling structural components. The Engineer also stated that any backfill placed without compaction testing would be at the Contractor's risk. If the top layers of fill do not pass the compaction test then all fill will need to be removed and replaced.

*Please notify HEB if any information is missing from this field report or has been interpreted differently.*

- » The Engineer observed that phase 1 of the box culvert had been installed according to the approved shop drawings from Concrete Systems Inc. (CSI) (see Photo 2). Jake Dawson confirmed that the wingwall was grouted to the footing and the mechanical connection from the wingwall to the box culvert was installed.
- » The Contractor stopped installing 8-inch lifts approximately 3.5 feet from the top of the box culvert on either side in order to have S.W. Cole test the top layers.
- » The barrier membrane installed by the Contractor is Royston 104 AHT Membrane which is an approved product on the New Hampshire Department of Transportation's (NHDOT) Qualified Products List.

**Work Scheduled:**

- » Tuesday, November 1, 2022 – Finish backfill for phase 1 of the box culvert.

**Outstanding Construction Issues:**

- » Install sedimentation basin according to permitted detail (FR#008, 10/04/22).
- » Provide verification of horizontal placement of the box culvert (FR#014, 10/26/22).

**Next Observation:**

- » Tuesday, November 1, 2022 – To observe testing of backfill.

**Photos:**

- » Taken by Eric Schroeder on October 31, 2022.

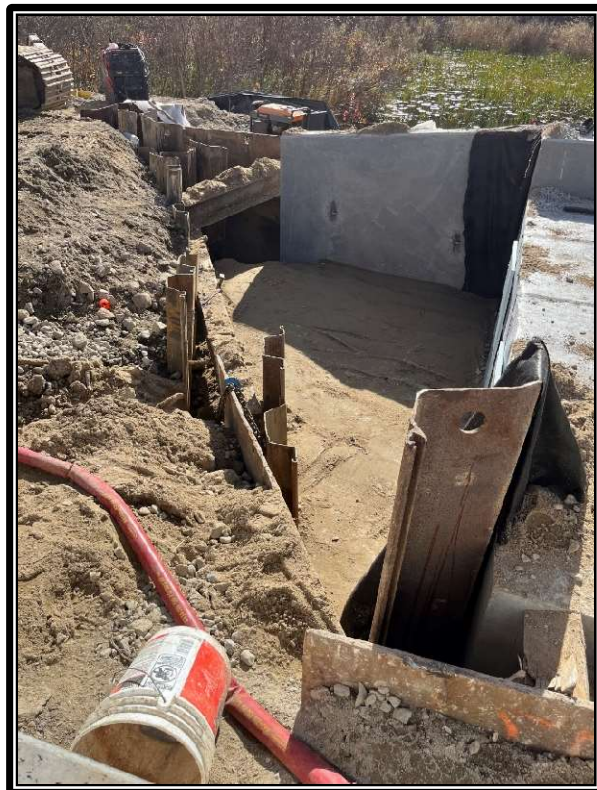


Photo 1: Contractor continued backfilling the box culvert.



Photo 2: The box culvert was installed according to approved shop drawings from CSI.

Copy: Jake Dawson's Excavation & Utility Services, LLC  
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