

FIELD REPORT

Nitsch Project #:	12808	Date:	May 15, 2020
Client:	Pine Hill Village, LLC	Time:	12:00 PM EST
Project:	Pine Hill Development	Location:	Harvard, Massachusetts
Weather:	Sunny, 76°F		
Present:	Gavin Graham – Nitsch Engineering		

The purpose of this site visit was to observe general site condition, observe general construction activities, and to observe erosion and sedimentation control measures. This site visit satisfies the weekly site visit requirement by Nitsch Engineering. The Developer has been working on the septic systems and foundations in the Pine Bank Neighborhood.

The following was noted:

1. Foundation drains were observed in the ground (Pictures 1, 2, and 3). These ran to daylight and directed water away from the site towards the rear of the site behind building 5. It is advised to connect these foundation drains to the closed drainage system such as to minimize the impact of erosion or provide additional stone for mitigation. Nitsch Engineering understands that the foundation drains are not in compliance with the Conservation Order of Commission. The Contractor should review the foundation underdrain with the Conservation Agent and Building Inspector.



Picture 1



Picture 2



Picture 3



Picture 4

2. There is a large collection of fill material behind Building 5. There are foundation drain pipes running to daylight and discharging water behind this fill pile to the back of the site. It is recommended that these pipes connect to the closed drainage system, and additional erosion control measures are implemented behind this fill pile. Additional Hay Swaddles should be staked to the ground in front of and behind the erosion control fence. See Pictures 5, 6, and 7 below:



Picture 5



Picture 6



Picture 7

3. Sump Pump kit was observed behind Building 1 (Picture 8).



Picture 8

4. Bio-Retention area near entrance to Pine Hill development is graded (Picture 9). Nitsch Engineering recommends erosion control measures in the bottom of the bio-retention systems to prevent sedimentation of any partially completed bio-retention systems.



Picture 9

5. In some spots the erosion control fence and hay swaddles had been damaged. It is advised to go through and repair portions of the fence that are damaged (Pictures 10 and 11):



Picture 10



Picture 11

Past Recommended Items to be Completed:

1. N/A

New Recommended Items to be Completed:

1. At bioretention cell near entrance on Stow Road, the Contractor to confirm pipe invert and compare it to bioretention grades such that water flows as intended.
2. Connect foundation drains to closed drainage system or appropriate outfall appropriate with the Conservation Agent and Building Inspector.
3. Implement additional erosion control measures behind the large mound of fill material behind Building 5. It is advised to add wattles in front of and behind the erosion control fence.
4. Repair sections of the erosion control fence that are damaged in the Pine Banks Neighborhood, specifically near the constructed wetlands and behind Building 1.
5. Implement erosion control measures in the bottom of bio-retention system to prevent sedimentation of any partially completed bio-retention systems.

Ongoing Recommendations:

1. Contractor to maintain stabilized construction entrance; and
2. Contractor to maintain erosion control barriers.

If there are any questions, please do not hesitate to contact Nitsch Engineering.



Gavin Graham
Project Designer

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Disclaimer: Nitsch Engineering performed this site visit in compliance with the guidelines and requirements of the Commonwealth of Massachusetts COVID-19 Guidelines and Procedures for All Construction Sites and Workers at All Public Work dated March 2020 (COVID-Construction Safety Guidance) and with the COVID-19 guidelines and requirements issued by the CDC and OSHA. However, Nitsch Engineering's services DO NOT include observations for compliance of the general contractor and/or the construction site with the COVID-19 Construction Safety Guidance and with the COVID-19 guidelines and requirements issued by the CDC and OSHA. Jobsite/worker safety duties belong with the general contractor who has control of the jobsite and responsibility for constructing the project, including the implementation and compliance of the COVID-19 Construction Safety Guidance. Neither the professional activities of Nitsch Engineering, nor the presence of Nitsch Engineering or its employees and subconsultants at a construction/project site, imposes any duty on Nitsch Engineering, nor relieve the General Contractor of its obligations, duties and responsibilities including health or safety precautions required by any regulatory agencies.