Nitsch Engineering

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FIELD REPORT

Nitsch Project #:	12808	Date:	April 6, 2021
Client:	Pine Hill Village, LLC	Time:	8:00 AM EST
Project:	Pine Hill Development	Location:	Harvard, Massachusetts
Weather:	50°F + Sunny		
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.

The following was noted:

1) The constructed wetland has visible sediment in the water. It is clear sediment is entering the system via piping and overland flow from uphill on the site.

2) The site is not stabilized as is visible in the runoff and sedimentation noted in this report. This soil is washing downhill and entering the constructed wetland and the intermittent stream. Nitsch Engineering recommends that the Contractor install erosion controls prior to the constructed wetland to minimize sedimentation into drainage systems and the constructed wetland.

	Sediment is visible in the constructed wetland.

	Close up of constructed wetland. Water is murky.
	Sediment is entering constructed wetland via drainage pipe system. Nitsch Engineering recommends extending this discharge pipe toward the wetland basin and covering the channel so that it makes a level slope (2% slope) to the roadway shoulder. This would eliminate the steep sloped channel close to the building door.
	Stone was placed at discharge location to slow stormwater discharge flows and to filter sediment.

	Sediment is entering constructed wetland. Nitsch Engineering recommends the Contractor stabilize upstream areas to prevent sediment from entering the drainage pipes. Sediment in the discharge pipe should be removed and disposed of properly.
	It appears that sediment is being washed away over the exposed slopes onsite. Nitsch Engineering recommends that the Contractor provide erosion control measures along the non-stabilized slopes at the top and mid-slope of exposed surfaces to minimize erosions.
	Swale has sediment buildup in the bottom of the channel. Nitsch Engineering recommends that this sediment be removed and disposed of properly prior to planting/seeding.

Past Recommended Items to be Completed:

1. N/A

New Recommended Items to be Completed:

1. -

Ongoing Recommendations:

1. Contractor to maintain stabilized construction entrance.

2. Contractor to maintain erosion control barriers.

Gavin Graham

Gavin Graham
Project Designer

GNG/SV/ajc

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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.