



OSPREY ENVIRONMENTAL ENGINEERING, LLC

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Memorandum to: Joseph Michelangelo

20 December 2017

From: Robert Grabarek

Re: Aggregate Yard Proposed Site Plan - Revised Drainage Design

Per the comments received regarding the drainage design for the above referenced project, the design of the sedimentation basin for the drainage system has been revised as follows:

The basin was enlarged to retain an increased amount of stormwater. The initial design was able to store the first inch of runoff (10,000 cubic feet of water) from the impervious area shown on the proposed site plan. The basin was redesigned and has a storage capacity of 23,000 cubic feet of water, slightly more than double the original design storage capacity.

In addition to increasing the proposed capacity of the basin, a stone berm was added to segregate the first third of the basin as a sedimentation forebay. This will allow coarser grained sediments to settle in that area and allow for more efficient maintenance activities.

It is proposed that the sediment basin will be seeded with a mix of New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites and New England Coastal Salt Tolerant Grass Mix in accordance with the manufacturers recommendations. The seed mixes are offered by New England Wetlands Plants, Inc., 820 West Street, Amherst, MA 01002. Website: www.newp.com

The following are recommended Best Management Practices for the basin:

- 1) Examine the outlet structure for evidence of clogging, subsidence, erosion, cracking or tree growth on the embankment; sediment accumulation around the outlet; and erosion within the basin and banks.
- 2) Make any necessary repairs immediately.
- 3) Mow the side slopes at least twice per year. Remove trash and debris at this time.
- 4) Remove sediment from the basin as necessary, but at least once every 5 years.