

MEMO



To: City of Burlington
From: Andrew G. Mills, P.E.
Date: 7/28/2016
Re: 80 Colchester Ave Stormwater Summary
Project Name: Colchester Avenue Housing Project #: 16-077

The following is a summary of the existing and proposed stormwater conditions for this project.

Existing Conditions: The project site consists of several lots with varying uses, primarily medical office space and residential. Stormwater runoff from both on and offsite areas currently discharges to a wetland located in the ravine on the north side of the site. There are no stormwater controls within the project area. Additionally, there is an existing drainage pipe coming from the UVM Medical facility which runs through the site and discharges to the wetland. See sheet C1-04 for more information on the existing conditions of the site.

Proposed Conditions: The site has been designed to treat stormwater from new and existing impervious surfaces in accordance with the VSMM. The project proposes to utilize the Site Balancing procedure as the west section of the project area is difficult to provide treatment for. The project proposes to treat existing impervious surfaces on the south and east sides of the project area to balance the site. Treatment is proposed to be provided via subsurface infiltration chambers which will provide both water quality and detention based treatment. Pretreatment is proposed to be provided by bio-retention areas located in the parking islands. The project will treat approximately 1.59 acres of new, redeveloped, and existing impervious. The existing UVM drainage pipe will be rerouted through the site and discharge in approximately the same location.