

March 14, 2014

Mr. Kenneth Motta
Chairman
New Bedford Conservation Commission
New Bedford City Hall
133 William Street
New Bedford, MA 02744

RE: Nitsch Project #8483
Cardinal Place
Review Letter
New Bedford, MA

Dear Mr. Motta:

This letter is in regard to the proposed Cardinal Place residential subdivision project located off of Swallow Street in New Bedford, Massachusetts. Nitsch Engineering received the following revised items on March 5, 2014, which were submitted as part of the proposed project:

- Plan set entitled, "Cardinal Place, Definitive Plan for a Residential Subdivision, Ava's Way, New Bedford, Massachusetts," prepared by Prime Engineering, Inc., revised February 27, 2014.
- Response to Comments Letter to New Bedford Conservation Commission, prepared by Prime Engineering, Inc., dated March 5, 2014; and
- Revised Drainage Summary and Calculations, prepared by Prime Engineering, Inc., revised March 5, 2014.

Nitsch Engineering's comments on the submitted documents, regarding drainage design only, are provided below:

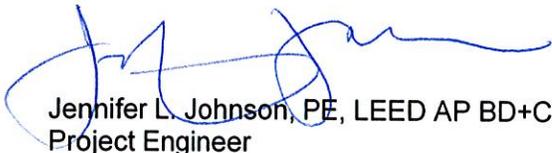
1. Discussions with Prime Engineering indicate the New Bedford Planning Board has requested that the sidewalks be removed from the project to decrease the amount of impervious surface on the project. Removing the sidewalks will reduce the amount of impervious surface on the project and improve the drainage design with regards to peak flow rates leaving the site. We recommend that the revised set of plans without sidewalks be submitted to the Conservation Commission.
2. We agree with Prime Engineering that the total amount of area draining towards Sassaquin Pond will be reduced and, therefore, the amount of flow toward the Pond will also be reduced. However, there will be flow generated by approximately 25 feet of Cardinal Street that will not be treated to improve stormwater quality. This flow will be collected by the Swallow Street drainage system and discharged to Sassaquin Pond.
3. Consistent with our previous letter, we recommend that the Commission include a condition in the Order of Conditions that requires infiltration units be installed to collect and fully infiltrate the runoff (up to the 100-year storm) from the proposed home roofs on each lot. Calculations should be provided with each subsequent Notice of Intent (NOI) Application.
4. Consistent with our previous letter and the Applicant's response letter, the revised plans indicate that the construction of the outlet swale for the smaller basin (Pond 3P) that is located near Swallow Street will encroach on the 25-foot wetland buffer. The grading for the swale extends to within 5 feet of the wetland line. Prime Engineering has indicated that they have no intention of revising this design.

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We have thoroughly evaluated the proposed drainage system. Although, we have the items listed above outstanding, Prime Engineering has indicated that they are not inclined to further refine the design with regards to the proposed swale. Therefore, we feel our review is complete unless there are significant changes to the project. If you have any questions, please call us at 617-338-0063.

Very truly yours,

Nitsch Engineering, Inc.



Jennifer L. Johnson, PE, LEED AP BD+C, CPSWQ
Project Engineer



Scott D. Turner, PE, AICP, LEED AP ND
Director of Planning

JLJ/SDT/fmk

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