

March 3, 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 February 26, 2014, which were submitted as part of the proposed project:

- Response to Comments Letter to New Bedford Conservation Commission, prepared by Prime Engineering, Inc., dated February 25, 2014;
- Response to Comments Letter to New Bedford Planning Board, prepared by Prime Engineering, Inc., dated February 26, 2014; and
- Plan set entitled, "Cardinal Place, Definitive Plan for a Residential Subdivision, Ava's Way, New Bedford, Massachusetts," prepared by Prime Engineering, Inc., revised February 25, 2014.

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

1. No additional drainage calculations were submitted with the revised plans. The response letter provided by the Applicant indicates a 5% increase in impervious area associated with the revised road design. Without revised calculations, we cannot comment on whether this increase impacts the previously submitted drainage analysis.
2. Provided that the Department of Public Infrastructure (DPI) is satisfied with the proposed gutter inlet and 6-inch pipes being proposed by the Applicant, we find the proposed design acceptable. The proposed gutter inlets are approximately 25-30 feet upgradient from the intersection of Ava's Way and Swallow Street. Therefore, a small amount of flow from the Project will flow into Swallow Street and ultimately discharge towards 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.

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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