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September 17, 2018

Mr. Craig Dixon
Chairman
New Bedford Conservation Commission
New Bedford City Hall
133 William Street
New Bedford, MA 02744

RE: Nitsch Project #9972
50 Duchaine Boulevard
Eversource
New Bedford, MA

Dear Mr. Dixon:

This letter is regarding the request for a Certificate of Compliance at 50 Duchaine Boulevard in New Bedford, Massachusetts. Nitsch Engineering has reviewed the following revised documents for compliance with the approved documents:

- Plan entitled "Final As-Built Plan, 50 Duchaine Boulevard, Assessors Map 134, Lot 457, New Bedford, Massachusetts," prepared by Farland Corp., dated January 19, 2018; and
- Cover letter prepared by Farland Corp., dated September 11, 2018 describing as-built detention basin volumes.

Nitsch Engineering performed a site visit on September 14, 2018 to observe the condition of the detention basins. We also compared the submitted information with what we believe to be the most recently submitted design plans and calculations, including a grading plan submitted March 15, 2017 and HydroCAD calculations received March 21, 2017.

Below are our comments on the as-built information:

1. The letter prepared by Farland Corp. lists the overall volumes for each of the four detention basins and compares them to the proposed (design) volumes. We compared these figures to the basin volumes listed in the HydroCAD calculations. The basin volumes shown in the HydroCAD calculations are all larger than the existing (as-built) volumes as follows.

Basin	DB-1	DB-2	DB-3	DB-4
	Volume (cf)	Volume (cf)	Volume (cf)	Volume (cf)
Existing (As-Built)	29,900	66,500	11,500	25,800
Proposed (9/11 letter)	28,400	63,400	11,900	26,700
Proposed (HydroCAD)	32,100	71,800	13,400	26,700

The volumes provided in the HydroCAD calculations for detention basins 1-3 are approximately 10% larger than the design volumes provided in the September 11th letter. It is unclear why there is a difference.

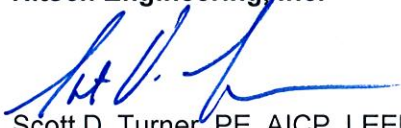
2. The overflow elevation for detention basin 2 on the as-built is shown as 77.81. The design elevation for the overflow is 78.25. It appears the overflow elevation is 6 inches lower than the design.
3. In general, the condition of the detention basins is good. However, the rip-rap pad discharging into detention basin 3 contains significant silt which limits its effectiveness. Also, the overflow weir has become overgrown with grass.

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If you have any questions, please call us at 617-338-0063.

Very truly yours,

Nitsch Engineering, Inc.



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

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