



Nitsch Engineering

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MEMORANDUM

TO: Sarah Porter, City of New Bedford
FROM: Scott Turner 
DATE: July 19, 2016
RE: 200 Theodore Rice Boulevard

Below is a summary of my observations during the site visit held on July 14, 2016 at the 200 Theodore Rice Boulevard construction site. I was met onsite by Sarah Porter and Rich Riccio from Field Engineering.

1. Significant work has been conducted onsite. The entire parking areas have been scarified and the significant stormwater best management practices (BMPs) have been shaped.
2. Detention basin #1 has been shaped and rip rap has been installed at the piped discharge points into and out of the detention basin. Based on observations and recommendations made during the previous site visit, a stone trench had been installed along the bottom of the northern portion of detention basin #1. Nitsch Engineering did not observe the placement of the trench. Rich Riccio from Field Engineering had observed the installation and noted that the depth of the trench was approximately 2 feet deep, assuring that there was a gravel "path" for water to travel down to the sand layers below the infiltration basin. The stone that was installed contained some fines (i.e. the stone was not double washed) and was placed approximately 8-12 inches above the current bottom of the basin. It was unclear why the stone was placed so high above the bottom of the basin since the plans called for 6 inches of loam and seed. The finished elevations of the basin should be verified to ensure that the finished bottom of the basin is consistent with the approved plans.
3. The bottom of detention basin #1, as well as detention basin #2, should be further cleaned to remove large stones, branches, and other debris prior to placing the loam.
4. Stone needed to be placed at the surface inlets to detention basin #1 and #2 as shown on the plans.
5. Detention basin #2 was shaped. The overflow weir had been installed as well as the stone trench. We discussed the apparent elevations of the different elements of the basin, including the overflow weir. It did not appear that the elevation between the bottom of the weir and the bottom of the basin were consistent with the plans. We recommended that the elevations of basin #2 be verified by Field Engineering prior to the loam and seed being placed.
6. The stone trench had been installed at the bottom of basin #2. The top of the stone trench was flush with the bottom of the basin. More stone will likely be needed to ensure that the top of the stone trench matches the bottom of the detention basin.
7. We recommend that the contractor verify the elevations of the discharge pipes leaving the detention basins. It appeared that the piping may not be set to achieve positive flow from the outlet control structures to the discharge points. There was some water sitting at the connection of the flared end structure to the piping. The flared end structure should be installed to ensure positive flow from the piping to the end of the flared end structure.
8. The large swale had been installed to the rear of the building. This swale conveys flows from the double catch basin located to the rear of the building and appears to have been constructed consistent with the approved plans.

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9. The installation of the parking areas and drainage facilities in the front of the building was ongoing. Both swales in the northeast corner of the parking area had not yet been installed. The stormceptor located in the northwest corner of the site had been installed. Grading work needed to be completed to ensure that positive flow towards the stormceptor is accomplished.
10. The landscape island and stormwater "depression" in the island had not yet been installed. This work was scheduled to occur later in the week.
11. The site was generally clean and in good condition.

Please call if you have any questions.

SDT/aab

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