


202313341

**LEGEND:**  
 REPRESENTS ACTION ITEM ADDRESSED IN RELATION TO LINE ITEM NO. DENOTED IN JCC SRP LETTER DATED 8/1/2022

**James City County**  
 107 Towing Road  
 Williamsburg, VA 23188  
 P: 757-259-4080  
 General Services@jamescitycountyva.gov  
 jamescitycountyva.gov

Capital Projects: 107 Towing Road, Williamsburg, VA 23188, 757-259-4080  
 Fleet: 103 Towing Road, Williamsburg, VA 23188, 757-259-4122  
 Stormwater and Resource Protection: 101-E Mounts Day Road, Williamsburg, VA 23185, 757-253-6670  
 Facilities & Grounds: 113 Towing Road, Williamsburg, VA 23188, 757-259-4080  
 Solid Waste: 1294 Jolly Pond Road, Williamsburg, VA 23188, 757-565-4971

8/1/2022  
 Ms. Margo Town Rosenthal  
 Senior Property Manager  
 1945 Old Gallows Road, Suite 300  
 Vienna, VA 22182

Re: New Town Section 9  
 Stormwater Management Facilities  
 James City County BMP ID Codes: PC 258 & 259

Dear Ms. Moses,

The Stormwater and Resource Protection Division has provided an extensive site inspection and reviewed interim record drawing information as provided for the above referenced project and received in our office on March 25<sup>th</sup> 2011. The previous submittal of record drawings has been considered as interim because the basins are currently operating in an Erosion and Sediment Control configuration. The following comments have been provided based on our review of the interim record drawings information and concurrent field inspections.

**Construction Related Items:**

**PC-258 (noted as A-04 in approved plans)**

- Drawdown Pipe. Invert information for the inlet of the dewatering pipe indicates that the pipe was installed at elevation 69.96 while the approved application indicated the device was to be installed at elevation 69.25. Though this may not appear detrimental, this pipe does not daylight until elevation 75.66 which is detrimental to the downstream channel and for proper operation of this facility. Further, the final configuration of this facility requires a new pipe be installed from the riser and into the normal pool below elevation 69.25 with a negative slope as is required with the approved construction documents. As it is critical to the operation of this facility that the dewatering pipe be lowered, this work is needed immediately.
- Crest of Riser. While the approved construction documents indicate the Crest of Riser was designed at elevation 74.00, the record drawings indicate an elevation of 76.61. With this elevation being 2' higher, the freeboard requirements have not been achieved and either site conditions need to be revised or revised routings are needed for this facility to show this will not be detrimental to the proper operation and overall lifespan of the facility.

- Subsidence. There is an area of subsidence immediately in front of the principal spillway for this facility. As this could be associated with the connection to the dewatering pipe, this needs to be checked for leaks and the grade in this location needs to be reestablished.
- Remove all volunteer vegetation on the retaining wall and address any necessary repairs associated with its establishment.
- Drawdown Pipe. Information provided in the record drawings indicates the pond flow control pipe was not installed consistent with the approved construction documents. The pond dewatering pipe located at the bottom elevation of the basin is indicated in the record drawing as being installed at elevation 73.47. With this elevation being provided at the inlet to the pipe, and with no invert at the riser being presented in the record drawings, it is unknown if there is additional depth to contend with or if simply lowering the inlet would rectify the issue. According to the record drawings, the bottom of the basin was constructed to the approved design depth of 72.00. This being the case, once this facility has been converted from a Temporary Sediment Basin and placed into operation as an Extended Detention Dry facility, there will be approximately 1' of standing water perpetually in the bottom of the facility. This will make it very difficult to maintain the basin as is required and therefore needs to be corrected.
- Barrel Pipe Outfall. There is currently an area of severe erosion immediately adjacent to the rip rap and end section of the barrel pipe that requires fill, compaction, and the establishment of vegetation.
- Erosion. At an on-site inspection on April 4th 2011, significant erosion was noted at the western end of the retaining wall. This has washed out the fill in the area and the fence support is cantilevered with the concrete fill suspended from the fencepost.
- Outfall Channel. The outfall channel constructed between the BMP Barrel pipe outfall and edge of receiving tributary has significantly eroded since the construction of the associated facility and will require reconstruction and stabilization.
- Drawdown Pipe. Invert information for the inlet and outlet of the dewatering pipe indicate that the pipe may have been installed with a positive slope to the riser structure. This will promote clogging of the device and is against the information that was contained in the approved construction documents. This requires correction.
- Barrel Pipe. The design slope for the barrel pipe associated with this facility was proposed at 0.5%; however, with the pipe apparently installed at 0.14%, the capacity of this pipe has been reduced from 31 cfs to 16.5 cfs per information contained in the record drawings. With the 10-year and 100-year discharges associated with this facility indicated at approximately 43.4 cfs and 82.23 cfs respectively per the approved design documents, the barrel pipe needs to either be removed and replaced at the designated slope or the basin routings need to be revised to show that this decrease in pipe capacity will not be detrimental to the operation of the facility.
- Forebay. In the approved plan set, the forebay floor was specified to be hardened with rip rap to prevent scour and ease maintenance; however, the current record drawings indicate this was not provided. As the current configuration of the facility is such that there is currently a permanent pool, this could not be verified at the time of the inspection.

- Barrel Pipe. The barrel pipe has been constructed with a sag in the middle of pipe alignment. While this may not create an issue with the total capacity of the barrel, it does raise concern as to the maintenance of the dam as there is joint separation along the alignment.
- Pond Outfall Channel. The outfall channel constructed between the BMP barrel pipe outfall and edge of receiving tributary has significantly eroded since the construction of the associated facility and will require reconstruction and stabilization.
- Modular Block Retaining Wall. There are several areas along the alignment of the retaining wall along the western side of the BMP which have "moved" in the direction of normal pool. One of these areas is rather severe and has been a major point of concern since its construction. As public access is not prohibited in this area and the surrounding area is a mixed use development providing both residential and public uses, there is substantial concern for the public health, safety, and welfare. Remove all volunteer vegetation on the wall and address any necessary repairs associated with its establishment.
- Access Drive. The access drive requires refreshment of the stone section and requires removal of trees that have grown since construction of the facility.
- Fence. Be advised that the 4' fence which currently exists does not meet the requirement of the approved plan as it was required to be 6' in height and located behind a guard rail spanning the length of the wall. These requirements were also provided as conditions to the approval of the pond variance for the basins dated April 17<sup>th</sup> 2007. Fence has been damaged in several areas and needs repair.
- Riser Structure. There is a significant area of subsidence immediately in front of the principal spillway that appears to be associated with the connection to the flow control pipe for the basin. This connection needs to be repaired and grades reestablished.
- Principal Spillway. Remove the filter fabric from the Principal Spillway to permit proper operation of the facility.
- Remove silt fence from around the periphery of the facility. Though there is little stabilization throughout the areas disturbed for the construction of the facility, the silt fence is up-gradient of disturbed areas and is unnecessary at this time.
- Clean and remove trash and debris from within the basin and around the riser structure to prevent clogging of the dewatering pipe once converted to final BMP mode.
- Remove all volunteer vegetation within a 10' diameter of any inflow and outflow structures.
- Fence. Be advised that the 4' fence which currently exists does not meet the requirement of the approved plan or the conditions to the approved stormwater pond variance dated April 17<sup>th</sup> 2007. In the approved application it was required to be 6' in height and located behind a guard rail spanning the length of the wall. Fence is damaged in several areas and needs to be repaired.

**PC-259 (noted as A-06 in approved plans)**

- Remove silt fence from around the periphery of the facility. Though there is little stabilization throughout the areas disturbed for the construction of the facility, the silt fence is up-gradient of disturbed areas and is unnecessary at this time.
- Clean and remove trash and debris from within the basin to prevent clogging of the dewatering pipe once converted to final BMP mode.
- Remove all volunteer vegetation within a 10' diameter of any inflow and outflow structures.

**Retaining Wall C**

- Remove all volunteer vegetation on the retaining wall and address any necessary repairs associated with its establishment.
- Remove vegetation along alignment of the box culvert on Casey Boulevard.

Please contact me at 757-253-6643 or the assigned Stormwater and Resource Protection Division inspector, Shamon Judson, at 757-253-6746 if you have any further comments or questions.

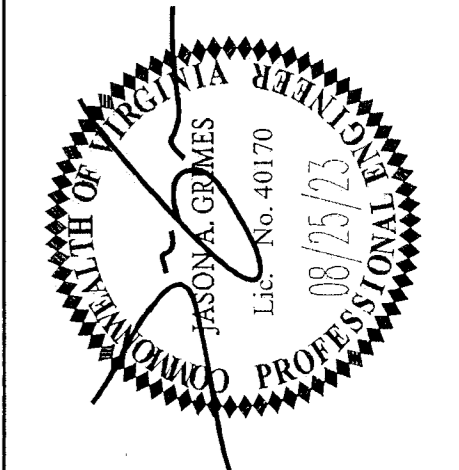
Sincerely,

Joe Buchite  
 Permitting Specialist and Inspections Supervisor  
 Stormwater and Resource Protection Division

10 Large/Small Plat(s) Recorded  
 herewith as # 202313341

City of Williamsburg & County of James City  
 Circuit Court: This PLAT was recorded on  
 Dec. 13, 2022  
 at 9:17 AM, PG  
 Document # 202313341  
 ELIZABETH E. O'CONNOR, CLERK  
 Elizabeth E. O'Connor Clerk

Rev.	Date	Description
1	06/25/2023	REVISION OF STORMWATER STRUCTURES
1	06/12/2023	REVISION PER JCC COMMENTS DATED 04/04/2023



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**ABS**  
 CONSULTING ENGINEERS

Hampton Roads | Central Virginia | Middle Peninsula

BMP REMEDIATION PLAN  
**SETTLERS MARKET**  
 NEW TOWN SECTION 9

BERKELEY DISTRICT | JAMES CITY COUNTY | VIRGINIA

Project Contacts: JAG  
 Project Number: 6632-S9-03  
 Scale: N/A Date: 02/14/2023

Sheet Title:  
 JAMES CITY COUNTY COMMENTS

Sheet Number:  
**C1**