MAINTENANCE & INSPECTION
PROGRAM FOR
BLOCK 3901, LOT 29
MONROE TOWNSHIP
GLOUCESTER COUNTY, NJ

EDA #8146

6/21/19
Joseph H. Maffei, P.E., P.P.
N.J.P.E. #37894
SCHEDULE A
MAINTENANCE AND INSPECTION PROGRAM
INfiltrATION BASIN

Applicant/Owner:
White & Blue, LLC – James Cannon
3215 Main Road
Franklinville, NJ 08322
609-381-0295

RESPONSIBILITY

It shall be the responsibility of the current applicant/owner to maintain and inspect the proposed stormwater basins. Responsibility for the maintenance and inspection of the stormwater basins shall be clarified in the property deeds.

A. General Maintenance - Infiltration Basin

Block 3901, Lot 29
Easting (X) 364,488
Northing (Y) 299,834

All infiltration basin components expected to receive and/or trap debris and sediment must be inspected for clogging and excessive debris and sediment accumulation at least four times annually, as well as after every storm exceeding one (1) inch of rainfall. Such components may include bottoms, riprap or gabion aprons, and inflow points. This applies to both surface and subsurface infiltration basins.

Sediment removal should take place when the basin is thoroughly dry. Disposal of debris, trash, sediment, and other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state and federal waste regulations.

B. Vegetated Areas

Mowing and/or trimming of vegetation must be performed on a regular schedule based on specific site conditions. Grass should be mowed at least once a month during the growing season. Vegetated areas must also be inspected at least annually for erosion and scour. The structure must be inspected for unwanted tree growth at least once a year.

When establishing or restoring vegetation, bi-weekly inspections of vegetation health should be performed during the first growing season or until the vegetation is established. Once established, inspections of vegetation health, density and diversity should be performed at least twice annually during both the growing and non-growing season. If vegetation has greater than 50 percent damage, the area should be
reestablished in accordance with the original specifications and the inspection requirements presented above.

All use of fertilizers, mechanical treatments, pesticides and other means to assure optimum vegetation health must not compromise the intended purpose of the infiltration basin. All vegetation deficiencies should be addressed without the use of fertilizers and pesticides whenever possible.

All vegetated areas should be inspected at least annually for unwanted growth, which should be removed with minimum disruption to the remaining vegetation and basin subsoil.

C. Structural Components

All structural components must be inspected for cracking, subsidence, spalling, erosion and deterioration at least annually.

D. Other Maintenance Criteria

The bottom sand layer in a surface infiltration basin should be inspected at least monthly as well as after every storm exceeding one (1) inch of rainfall. The permeability rate of the soil below the basin may also be retested periodically. If the water fails to infiltrate 72 hours after the end of the storm, corrective measures must be taken. Annual tilling by light equipment can assist in maintaining infiltration capacity and break up clogged surfaces.

**SCHEDULE OF REGULAR INSPECTION AND TASKS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Inspection Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspection of Infiltration Components</td>
<td>4 times annually as well as after every storm exceeding one (1) inch of rainfall</td>
</tr>
<tr>
<td>Mowing of Grass</td>
<td>Once a month</td>
</tr>
<tr>
<td>Inspection of Vegetated Areas</td>
<td>Annually</td>
</tr>
<tr>
<td>Inspection of Bottom Sand Layer in the infiltration basin</td>
<td>Monthly, as well as after every storm exceeding one (1) inch of rainfall</td>
</tr>
</tbody>
</table>
COST ESTIMATE OF MAINTENANCE TASKS

<table>
<thead>
<tr>
<th>Task</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mowing of Grass</td>
<td>$500.00</td>
</tr>
<tr>
<td>Annual Tilling of Sand Bottom and Replacement of 6&quot; Sand Bottom</td>
<td>$500.00</td>
</tr>
<tr>
<td>(as required)</td>
<td></td>
</tr>
<tr>
<td>Outlet Control Structures</td>
<td>$500.00</td>
</tr>
<tr>
<td>Inspection by Engineer</td>
<td>$750.00</td>
</tr>
<tr>
<td><strong>Total Cost per Year</strong></td>
<td><strong>$2,250.00</strong></td>
</tr>
</tbody>
</table>

The responsible party shall be required to keep detailed logs of all preventative and corrective maintenance performed at the stormwater management measure.

**Maintenance Equipment Required:**

- **Mowing of Grass**: Lawn mower, gasoline
- **Tilling of Sand Bottom**: Light mechanical tilling equipment, gasoline

E. **Recommended Corrective Response to Sedimentation of Basin Bottom**

Upon sedimentation of basin bottom, all water shall be removed from the basin by way of mechanical pump. This water shall be discharged at outfall structure. Sediment removal should take place when the basin is thoroughly dry. Removal shall be accomplished with light mechanical equipment to minimize compaction of the soil. All sediment shall be disposed in compliance with all applicable local, state and federal regulations. A new 6" deep sand layer shall be installed on the basin bottom using light mechanical equipment.

Originals or copies of manufactured warranties on pertinent measure components shall be included in the Maintenance Plan.

As-Built construction plans of the stormwater management measure and copies of pertinent construction documents such as laboratory test results, permits and completion certificates shall be included in the maintenance plan.

F. **Required Maintenance Plan Procedures**

Once the Maintenance Plan is completed, the NJDEP Stormwater Management Rules require that the following procedures be followed:
1. Copies of the maintenance plan must be provided to the owner and operator of the stormwater management measure. Copies must also be submitted to all reviewing agencies as part of each agency's approval process. In addition, a copy should be provided to the local mosquito control or extermination commission upon request.

2. The title and date of the Maintenance Plan and the name, address and telephone number of the person with stormwater management measure maintenance responsibility as specified in the plan must be recorded on the deed of the property on which the measure is located. Any change in this information due, for example to a change in property ownership, must also be recorded on the deed.

3. The person with maintenance responsibility must evaluate the Maintenance Plan for effectiveness at least annually and revise as necessary.

4. A detailed, written log of all preventative and corrective maintenance performed at the stormwater management measure must be kept, including a record of all inspections and copies of maintenance-related work orders.

5. The person with maintenance responsibility must retain and, upon request, make available the maintenance plan and associated logs and other records for review by a public entity with administrative, health, environmental, or safety authority over the site. An inspection, maintenance and repair report shall be submitted to Monroe Township annually.

II. Long-Term Maintenance

In order to ensure proper function of all basins, every 5 years, each basin bottom shall be scarified to a depth of 6" to remove sediments and silts. Then 6" of K-4 sand material must be added to the basin bottom.

A 10-Year inspection/maintenance program shall consist of the following:

- Annual visual inspection of outlet structures and basins.
- Mowing of the grass regularly to ensure the aesthetic quality of the site.
- Fertilizing and liming bi-annually.
- Every five (5) years, each basin shall be scarified to a depth of 6" to remove sediments and silts.
A performance bond in the form of a ten (10) year maintenance guarantee shall be required to ensure proper maintenance of the proposed basins. This maintenance guarantee shall include all costs associated with proper maintenance of the basin. A ten (10) year inspection maintenance program shall consist of the following:

- Annual visual inspection of outlet structures and basins.
- Mowing of the grass regularly to ensure the aesthetic quality of the site.
- Fertilizing and liming bi-annually.

The amount of the guarantee shall be approved by the Monroe Township Zoning Board.

Permanent financing of the inspection, maintenance and repair of stormwater BMP’s shall be accomplished by:

1. The assumption of the inspection and maintenance program by a municipality, county, public utility or homeowners’ association.

2. The required payment of fees to a municipal stormwater fund in an amount equivalent to the cost of both on-going maintenance activities and necessary structural replacements. The fee schedule is attached.

3. Other suitable method approved by the municipality.
INSPECTION LOG FORM

Applicant/Owner:
White & Blue, LLC – James Cannon
3215 Main Road
Franklinville, NJ 08322
609-381-0295

Block 3901, Lot 29
Easting (X) 364,488
Northing (Y) 299,834

Date of Inspection: ________________________________

Inspection performed by the following person or entity:

__________________________

Description of Inspection performed:

__________________________

Recommendations:

__________________________
MAINTENANCE BASIN

Applicant/Owner:

White & Blue, LLC – James Cannon
3215 Main Road
Franklinville, NJ 08322
609-381-0295

Block 3901, Lot 29
Easting (X) 364,488
Northing (Y) 299,834

Date Maintenance Performed:

Maintenance performed by the following person or entity:

Description of Maintenance performed:

Recommendations: