STORMWATER MANAGEMENT
INSPECTION AND MAINTENANCE AGREEMENT

City of Roswell, GA
Environmental / Public Works Department
(770) 641-3750

In accordance with the City of Roswell Unified Development Code Section 12.5 Stormwater Management, THIS INSTRUMENT, made and entered into this _____day of _____, 20____, by and between (Insert Full Name of Owner) _____ hereinafter called the "Landowner", and the City of Roswell, Georgia, hereinafter called the "City". WITNESSETH, that

WHEREAS, the Landowner is the owner of certain real property described as (Fulton County Tax Map/Parcel Identification Number) _____as recorded by deed in the land records of Fulton County, Georgia, Deed Book _____, Page _____, hereinafter called the "Property"; and

WHEREAS the Landowner is proceeding to build on and develop the property; and

WHEREAS, the Site Plan/Subdivision Plan and/or Stormwater Management Plan known as _____(Name of Development or Address) hereinafter called the "Plan", which is expressly made a part hereof, as approved or to be approved by the City, provides for management of stormwater within the confines of the property; and

WHEREAS, the City and the Landowner, its successors and assigns, including any homeowners or property owners association agree that the health, safety and welfare of the residents of the City of Roswell, Georgia, require that stormwater management facilities be constructed and adequately maintained on the Property; and

WHEREAS, the City requires that stormwater management facilities as shown on the Plan be constructed and adequately maintained by the Landowner, its successors and assigns, including any homeowners or property owners association; and

WHEREAS, Landowner, its successors and assigns, understand the execution and adherence to the provisions of this Instrument is a condition precedent to the City's permitting of the contemplated development;

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The stormwater management facilities shall be constructed and operated by the Landowner, its successors and assigns, in accordance with the plans and specifications identified in the Plan.

2. The Landowner, its successors and assigns, including any homeowners association, shall adequately maintain the stormwater management facilities as identified on the Plan. This includes all pipes and channels built to convey stormwater to the facilities, as well as all structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate maintenance is herein defined as good working condition so that these facilities are performing their design functions.

3. The Landowner, its successors and assigns, will perform the work necessary to keep these stormwater management facilities in good working order. In the event a maintenance schedule for the stormwater management facilities (including sediment removal) is outlined on Exhibit B and/or the approved plans, the schedule will be followed.

4. The Landowner, its successors and assigns, shall inspect the stormwater management facilities and submit an inspection report annually to the City. The purpose of the inspection is to ensure proper functioning of the facilities. The inspections shall cover the entire facilities, berms, outlet structure, pond area, access roads, etc., as outlined in Exhibit B. Deficiencies shall be noted in the inspection report.

5. The Landowner, its successors and assigns, hereby grant permission to the City, its authorized agents and employees, upon reasonable notice to the Landowner to enter upon the Property and to inspect the stormwater management facilities with reasonable notice to the Landowner by the City. In the case of an emergency situation, as determined by the City, no notice shall be required prior to the City performing inspections and emergency maintenance or repairs. The purpose of inspection is to follow-up on reported deficiencies and/or to respond to citizen complaints. The City shall provide the Landowner, its successors and assigns, copies of the inspection findings and a directive to commence with the repairs if necessary.

6. If the City determines from its inspection that maintenance, repair, restoration, and/or mitigation work is required for the stormwater management facilities and practices, the City may notify the Landowner of the specific maintenance, repair, restoration, and/or mitigation work required. If the Landowner does not complete required maintenance or repairs within a specified time period, the City is authorized, but not required, to perform the specified inspections, maintenance or repairs. The City may require reimbursement from the Landowner for the reasonable and actual costs and expenses of such inspections, maintenance or repair-related actions.

7. It is expressly understood and agreed that the City is under no obligation to routinely maintain or repair said facilities or practices, and in no event shall this Agreement be construed to impose any such obligation on the City.

8. In the event the Landowner, its successors and assigns, fails to maintain the stormwater management facilities as identified in the Plan in good working condition acceptable to the City, the City may enter upon the Property and take what steps are necessary to correct deficiencies identified in the inspection report and to charge the reasonable and actual costs of such repairs to the Landowner, its successor and assigns. This provision shall not be construed to allow the City to erect any structure of permanent nature on the land of the

Landowner outside of the easement for the stormwater management facilities identified in the Plan.

9. This Instrument imposes no liability of any kind whatsoever on the City and the Landowner agrees to hold the City harmless from any liability in the event the on-site stormwater management facilities fail to operate properly.

10. This Instrument shall be recorded among the land records of Fulton County, Georgia, and shall constitute a covenant running with the land, and shall be binding on the Landowner, its administrators, executors, assigns, heirs and any other successors in interests, including any homeowners or property owners association.

WITNESS the following signatures and seals:

_____
Company/Corporation/Partnership Name (Seal)

By: _____
(Signature)

_____
(Type Name)

_____
(Type Title)

STATE OF _____

COUNTY OF _____

The foregoing instrument was acknowledged before me this _____day of _____, 20_____, by

_____.

_____ (Seal)
NOTARY PUBLIC

My Commission Expires: _____

STORMWATER MANAGEMENT
INSPECTION AND MAINTENANCE AGREEMENT

Exhibit A
Responsible Person

As required by Section 12.5.2.D of the City of Roswell Unified Development Code (UDC) identify, by name or official title, the person responsible for carrying out the inspection and maintenance of the stormwater management facilities and practices in accordance with the Inspection and Maintenance Schedule prepared by the engineer of record for this facility and attached as Exhibit B.

_____
Name and Address of Facility

As required by Section 12.5.5.C of the UDC, parties responsible for the operation and maintenance of on-site stormwater management facilities and practices must provide records of all maintenance and repairs to the City. Any action or inaction that violates the provisions of the UDC, the requirements of an approved stormwater management plan, or any permit issued subject to this UDC may be subject to an enforcement action. Failure to meet the requirements of the inspection and maintenance agreement shall constitute a violation of Section 12.5 of the City of Roswell UDC and shall be punishable under Section 13.14.4 of said code.

_____
Responsible Entity (Name or Official Title)

_____
Contact Person's Name

_____
Signature

_____
Address

_____
City, State, Zip Code

_____
Phone Number

_____
E-Mail Address

STORMWATER MANAGEMENT
INSPECTION AND MAINTENANCE AGREEMENT

Exhibit B
Inspection and Maintenance Schedule

Attached is the inspection and maintenance schedule prepared by the Stormwater Design Engineer of Record (EOR).

Copies of the required Annual Inspection Reports shall be mailed to:

City of Roswell
38 Hill Street, Suite 235
Roswell, Georgia 30075
Attention: Stormwater Plans Reviewer

As-built documentation of the stormwater management facilities and practices, and a schedule of maintenance activities for <u>each</u> type of stormwater facility or practice used within the project shall be provided in the Stormwater Management Inspection and Maintenance Agreement prior to approval by the City and recording with Fulton County Clerk of Superior Court.

For additional information on inspection and maintenance, refer to Chapter 4 Best Management Practices and Appendix E Operations and Maintenance, of the "Georgia Stormwater Management Manual" (GSMM), latest edition for minimum recommended inspection and maintenance requirements.

The Site Plan/Subdivision Plan and/or Stormwater Management Plan known as _____(Name of Development or Address) includes the following stormwater management facility/facilities for maintenance and inspection:

_____(Stormwater Management Facility)

_____(Stormwater Management Facility)

_____(Stormwater Management Facility)

Select the stormwater management facility or practice maintenance and activities schedule and checklist from the following pages and include the required maintenance schedule and checklist from the Georgia Stormwater Management Manual Operations and Maintenance Guidance Document referenced in each stormwater management facility maintenance and activities schedule as an attachment to this Exhibit.

Stormwater Dry Detention Pond

Dry Detention Pond Typical Routine Maintenance Activities and Schedule

Quarterly or as Needed
- Mow to limit unwanted vegetation.
- Litter/ Debris removal.

Twice per Year Activities
- Remove sediment buildup.
- Repair and revegetate undercut and/or eroded areas.
- Perform structural repairs to inlet and outlets.
- Repair undercut or eroded areas.
- Mow side slopes.
- Seed or sod to restore dead or damaged ground cover.

Annually Inspection and Inspection/Maintenance after 1.0 inch rain event
- Remove debris from basin surface to minimize outlet clogging and improve aesthetics.
- Note erosion of detention basin banks or bottom
- Inspect for damage to the embankment.
- Monitor for sediment accumulation in the facility and forebay.
- Examine to ensure that inlet and outlet devices are free of debris and operational.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Dry Detention Pond Inspection Checklist on pages 23-24
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Updated 02/2024

Dry Detention Basin					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet Structure					
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.					
Area around the inlet structure is mowed and grass clippings are removed.					
No evidence of gullies, rills, or excessive erosion around the inlet structure.					
Water is going through structure (i.e. no evidence of water going around the structure).					
Inlet pipe is in good condition and is not clogged.					
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.					
Pretreatment (forebay)					
Area is free of trash, debris, and sediment.					
Sediment accumulation is less than 50% of the forebay volume.					
No undesirable vegetation within the forebay. Weeds are removed to prevent clogging.					
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.					
No evidence of long-term ponding or standing water in the ponding area of the practice (examples include: stains, odors, mosquito larvae, etc.).					

Dry Detention Basin					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
Basin seems to be working properly. No settling around the basin. Comment on overall condition of basin.					
Vegetation within and around practice is maintained. Grass clippings are removed.					
Sediment accumulation within dry detention basin is less than 3 inches.					
No standing water within the basin.					
No evidence of use of fertilizer on grass (fertilizer crusting on the surface of the soil, tips of leaves turning brown or yellow, blackened roots, etc.).					
Emergency Overflow					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
No shrubs or trees growing on embankment.					
No signs of seepage on the downstream face.					
No signs of animal activity.					
Outlet Structure					
Outlet structure is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
All moveable components are operational.					
Results					
Overall condition of Dry Detention Basin:					
Additional Comments					
Notes: * If a specific maintenance item was not checked, please check N/A and explain why in the appropriate comment box.					

Stormwater Dry Extended Detention Basin

Dry Extended Detention Basin Typical Routine Maintenance Activities and Schedule

Monthly or as needed

- Remove trash, sediment, and debris from forebay and inlet and outlet structures.
- Mow the embankment and maintenance access.
- Periodically mow along maintenance rights-of- ways and the embankment. Remove grass clippings.

Quarterly

- Repair and re-vegetate eroded areas.
- Remove and dispose of vegetation that may hinder the operation of the pond.
- Perform structural repairs to pond, outlet structures, embankments, control gates, valves, or other mechanical devices.

Ten to Twenty Years

- Remove sediment when volume of pond is significantly reduced.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Dry Detention Pond Inspection Checklist on pages 33-34
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Updated 02/2024

Dry Extended Detention Basin					
Inspection Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet/Outlet Structure					
Drainage ways to and from the practice is free of trash, debris, large branches, etc.					
Area around the inlet/outlet structure is mowed and grass clippings are removed.					
No evidence of gullies, rills, or excessive erosion around the inlet/outlet structure.					
Water is going through structure (i.e. no evidence of water going around the structure).					
No signs of significant sediment accumulation.					
Concrete is in good condition. No signs of cracks.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
Vegetation seems healthy. No signs of bare spots or dead vegetation.					
No signs of undesirable vegetation growth.					
No signs of excessive sedimentation.					
No signs of pollution draining into the practice (oil sheens, discolored or unnatural water, odor, etc.).					
Embankment and Emergency Overflow					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.					
No signs of animal activity in embankment.					
No signs of seepage on downstream side of embankment.					

Dry Extended Detention Basin					
Inspection Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
No signs structural deformation of embankment.					
No obstructions in spillway.					
Results					
Overall condition of Dry Extended Detention Basin:					
Additional Comments					
Notes: *If a specific maintenance item was not checked, please explain why in the appropriate comment box.					

Stormwater Wet Detention Pond

Wet Detention Pond Typical Routine Maintenance Activities and Schedule

Inspection after 1.0 inch rain event
- Repair undercut or eroded areas.

Monthly Activities
- If wetland components are included, inspect for invasive vegetation.

Quarterly Activities (May through October)
- Inspect inlets, outlets and overflow spillway to ensure good condition and no evidence of erosion.
- Clean and remove debris from inlet and outlet structures.
- Mow side slopes.
- Inspect pond dam for structural integrity.
- Remove trash from the area around the pond.

Twice per Year Activities
- Inspect for damage, paying particular attention to the control structure.
- Check for signs of eutrophic conditions (e.g., algal blooms and fish kills).
- Note signs of hydrocarbon build-up (e.g., an oil sheen), and remove appropriately.
- Monitor for sediment accumulation in the facility and forebay.
- Check all control gates, valves, or other mechanical devices.

Annual Inspection and Activities
- Repair undercut or eroded areas.

Five to Seven Year Inspection and Activities
- Remove sediment from the forebay 5 to 7 years or after 50% of the total forebay capacity has been lost.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Wet Detention Pond Inspection Checklist on pages 113-114
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Updated 02/2024

Stormwater Pond					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet Structure					
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.					
Area around the inlet structure is mowed and grass clippings are removed.					
No evidence of gullies, rills, or excessive erosion around the inlet structure.					
Inlet pipe is in good condition, and water is going through the structure (i.e. no evidence of water going around the structure).					
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.					
Pretreatment (choose one)					
Forebay – area is free of trash, debris, and sediment.					
Filter Strip or Grass Channels – area is free of trash debris and sediment. Area has been mowed and grass clippings are removed. No evidence of erosion.					
Rock Lined Plunge Pools – area is free of trash debris and sediment. Rock thickness in pool is adequate.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.					
No algal growth along or within the pond.					
Native plants were used in the practice according to the planting plan. No undesirable vegetation.					
Practice seems to be working properly. No settling around the stormwater pond.					

Stormwater Pond					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
Comment on overall condition of stormwater pond.					
Vegetation within and around practice is maintained per landscaping plan. Grass clippings are removed.					
No significant sediment accumulation within the practice.					
No evidence of use of fertilizer on plants (fertilizer crusting on the surface of the soil, tips of leaves turning brown or yellow, blackened roots, etc.).					
Plants seem to be healthy and in good condition. Comment on condition of plants.					
Emergency Overflow					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, flooding, or animal activity around the structure.					
No evidence of erosion, scour, or flooding around the structure.					
Outlet Structure					
Outlet structure is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Outlet structure does not appear to be blocked.					
No evidence of animal activity.					
No evidence of seepage on the downstream face.					
Results					
Overall condition of Stormwater Pond:					
Additional Comments					
Notes: * If a specific maintenance item was not checked, please check N/A and explain why in the appropriate comment box.					

Stormwater Bioretention Pond

Bioretention Area Typical Routine Maintenance Activities and Schedule

Inspection after 1.0 inch rain event
- Remove trash and debris.
- Inspect for erosion, rills, or gullies and repair.

Quarterly Activities
- Prune and weed to maintain appearance.
- Trim planting material.
- Dissipate flow when erosion is evident.
- Remove trash and debris.
- Remove sediment and debris from inlets and outlets.
- Remove and replace dead or damaged plants.
- Mow around the bioretention area as necessary, ensuring grass clippings are not placed in the practice.
- Observe infiltration rates after rain events. Bioretention areas should have no standing water within 24 hours of a storm event.
- Inspect for evidence of animal activity. As needed or 4 times during growing season.

Twice per Year Activities
- Inspect for erosion, rills, or gullies and repair.
- Inspect filter strip/grass channel for erosion or gullying, if applicable. Re-seed or sod as necessary.
- Inspect trees and shrubs to evaluate their health, and remove and replace any dead or severely diseased vegetation.
- Obtain a mulch depth of at least 3 to 4 inches should be inspected and obtained. Additional mulch should be added as necessary.

Annual Activities
- Test the planting soils for pH levels. Consult with a qualified licensed Professional to determine and maintain the proper pH levels.

2-3 Year Activities
- Replace/repair inlets, outlets, scour protection or other structures as needed.
- Implement plant maintenance plan to trim and divide perennials to prevent overcrowding and stress.
- Check soil infiltration rates to ensure the bioretention area soil is draining the water at a proper rate. Re-aerate or replace soil and mulch layers as needed to achieve infiltration rate of at least 0.5 inches per hour.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Bioretention Pond Inspection Checklist on pages 11-12
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Updated 02/2024

Bioretention Area					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet Structure					
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.					
Area around the inlet structure is mowed and grass clippings are removed.					
No evidence of gullies, rills, or excessive erosion around the inlet structure.					
Water is going through structure (i.e. no evidence of water going around the structure).					
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.					
Pretreatment (choose one)					
Forebay – area is free of trash, debris, and sediment.					
Weir – area is free of trash, debris, and sediment is less than 25% of the total depth of the weir.					
Filter Strip or Grass Channels – area is free of trash debris and sediment. Area has been mowed and grass clippings are removed. No evidence of erosion.					
Rock Lined Plunge Pools – area is free of trash debris and sediment. Rock thickness in pool is adequate.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
Erosion protection is present on site (i.e. turf reinforcement mats). Comment on types of erosion protection and evaluate condition.					

Bioretention Area					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
No evidence of long-term ponding or standing water in the ponding area of the practice (examples include: stains, odors, mosquito larvae, etc).					
Structure seems to be working properly. No settling around the structure. Comment on overall condition of structure.					
Vegetation within and around practice is maintained per landscaping plan. Grass clippings are removed.					
Mulching depth of 3-4 inches is maintained. Comment on mulch depth.					
Native plants were used in the practice according to the planting plan.					
No evidence of use of fertilizer on plants (fertilizer crusting on the surface of the soil, tips of leaves turning brown or yellow, blackened roots, etc.).					
Plants seem to be healthy and in good condition. Comment on condition of plants.					
Emergency Overflow					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Outlet Structure					
Outlet structure is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Results					
Overall condition of Bioretention Area:					
Additional Comments					
Notes: *If a specific maintenance item was not checked, please check N/A and explain why in the appropriate comment box.					

Stormwater Bioslopes

Bioslopes Typical Routine Maintenance Activities and Schedule

Monthly Activities

- Stabilize eroded areas on the bioslope.
- Ensure that flow is not bypassing the facility.
- Ensure that no noticeable odors are detected outside the facility.
- Mow the bioslope grass using a retractable arm mower to avoid compaction. Grass height should be mowed to a height of 6 to 15 inches. Remove grass clippings.

Quarterly Activities

- Clear debris in inlets and outlets.
- Mow and stabilize the area surrounding the bioslope. Remove grass clippings.
- Ensure that activities in the drainage area minimize oil/grease and sediment entry to the system.
- Remove trash and debris.

Twice per Year Activities

- Inspect for erosion, rills, or gullies and repair.
- Inspect filter strip/grass channel for erosion or gullying, if applicable. Re-seed or sod as necessary.
- Inspect trees and shrubs to evaluate their health, and remove and replace any dead or severely diseased vegetation.
- Obtain a mulch depth of at least 3 to 4 inches should be inspected and obtained. Additional mulch should be added as necessary.

Annual Activities

- Ensure that gravel spreader or other structural elements of the bioslope are in good condition and free of debris.
- Test the permeability of the bioslope media using a hydraulic conductivity test. Replace the media as needed.
- Flow test the cleanouts to look for signs indicating the underdrain system is clogged.
- Evaluate sediment accumulation and remove once it reaches or exceeds a depth of 3 inches.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Bioslope Inspection Checklist on pages 15-16
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Updated 02/2024

Bioslope					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet					
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.					
Area around the inlet is mowed and grass clippings are removed.					
No evidence of gullies, rills, or excessive erosion around the inlet.					
Water is going through the bioslope (i.e. no evidence of water going around the BMP).					
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.					
Pretreatment					
Area is free of trash debris and sediment.					
Area has been mowed and grass clippings are removed. Grass seems healthy and there are no bare areas or dying grass.					
No evidence of erosion or gullies.					
Area is free of undesirable vegetation.					
No standing water in the practice.					
No sediment accumulation within in the pretreatment area.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
No evidence of erosion of gullies within the bioslope.					
No evidence of long-term ponding or standing water in the practice (examples include: stains, odors, mosquito larvae, etc).					
Practice seems to be working properly. No settling around the structure. Comment on overall condition of practice.					

Bioslope					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
No undesirable vegetation within the bioslope.					
Area has been mowed at a height of 6-15 inches. Grass clippings are removed.					
Cleanout caps for underdrain are not damaged or missing.					
Flow testing has been performed on bioslope to determine if underdrain is clogged.					
Observation well has no signs of standing water.					
Emergency Overflow					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Outlet Structure					
Outlet structure is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Outlet pipe is not damaged or clogged and is in good condition.					
Results					
Overall condition of Bioslope:					
Additional Comments					
Notes: *If a specific maintenance item was not checked, please check N/A and explain why in the appropriate comment box.					

Stormwater Underground Detention

Underground Detention Typical Routine Maintenance Activities and Schedule

NOTE:
Inspection of the interior of an underground detention stormwater management facility WILL only be conducted by an individual who is certified in the Occupational Safety and Health Administration (OSHA) confined space entry. Priority maintenance activities include inspection of the inlet and outlet structures to remove debris and sediment to reduce the need for interior inspection.

Inspection after 1.0 inch rain event

- Remove trash and debris from inlet and outlet structures attached to the underground system.
- Inspect for erosion, rills, or gullies and repair.

Annual Activities

- Clean out underground detentions with vacuum or boom trucks.
- Clean sediment or oil chambers.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Underground Detention Inspection Checklist on page 129
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Underground Detention

Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Inlet Structure and Pretreatment					
Drainage ways (overland flow or pipes) to the practice are free of trash, debris, large branches, etc.					
Inlet structure is in good condition. No signs of cracks or leaks.					
Diversion structure (high flow bypass structure or other) is free of trash, debris, or sediment. Comment on overall condition of diversion structure and list type.					
Inlet pipe fits tightly to the underground detention.					
Inlet has protection to prevent clogging with leaves or other debris and has fine mesh for mosquito control.					
Main Treatment					
Main treatment area is free of trash, debris, and sediment.					
Structure seems to be working properly. No signs of settling, leaking, or cracking. Comment on overall condition of structure.					
Emergency Overflow and Outlet Structure					
Area is free of trash, debris, and sediment.					
Overflow valve appears to be in good condition and show no signs of leaking.					
Results					
Overall condition of Underground Detention:					
Additional Comments					

Notes: *If a specific maintenance item was not checked, please explain why in the appropriate comment box.

Stormwater Dry Well/Flo-Well

Dry Well Typical Routine Maintenance Activities and Schedule

First and Second Year after Installation

- Inspect dry well following rainfall events. Check observation well to ensure that complete drawdown has occurred within 24 hours after the end of a rainfall event. Failure to drawdown within this timeframe may indicate dry well failure.
- Inspect gutters and downspouts. Remove any accumulated leaves or debris.
- Inspect vegetative cover on the surface of the dry well following rainfall events. Plant replacement vegetation in any eroded areas.
- If applicable, water to promote plant growth and survival within landscaped area over the top of the dry well.
- If applicable, inspect pretreatment devices for sediment accumulation. Remove accumulated trash and debris.
- Inspect top layer of filter fabric for sediment accumulation. Remove and replace if clogged.

Annual Activities

- Inspect dry well following rainfall events. Check observation well to ensure that complete drawdown has occurred within 24 hours after the end of a rainfall event. Failure to drawdown within this timeframe may indicate dry well failure.
- Inspect gutters and downspouts. Remove any accumulated leaves or debris.
- Inspect vegetative cover on the surface of the dry well following rainfall events. Plant replacement vegetation in any eroded areas.
- If applicable, water to promote plant growth and survival within landscaped area over the top of the dry well.
- If applicable, inspect pretreatment devices for sediment accumulation. Remove accumulated trash and debris.
- Inspect top layer of filter fabric for sediment accumulation. Remove and replace if clogged.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Dry Well Inspection Checklist on page 35-36
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Dry Well					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean around the practice (trash, debris, grass clippings, etc. removed).					
Gutters, pipes, and downspouts to the dry well are free of trash, debris, leaves, etc.					
No evidence of structural deficiencies or settling around the structure.					
Main treatment area is free of trash, debris, and sediment.					
Sediment has not accumulated and clogged filter fabric.					
Preatreatment is in place if dry well does not receive roof top runoff. Pretreatment is in good condition.					
No evidence of long-term ponding or standing water in the ponding area of the practice (examples include: stains, odors, mosquito larvae, etc).					
The observation well is capped and locked when not in use.					
Structure seems to be working properly. No settling around the structure. Comment on overall condition of structure.					
Results					
Overall condition of Dry Well:					
Additional Comments					
Notes: *If a specific maintenance item was not checked, please explain why in the appropriate comment box.					

Stormwater Pervious Pavers/Permeable Pavement

Pervious Pavement Typical Routine Maintenance Activities and Schedule

Inspection after 1.0 inch rain event

- Remove trash, leaves, and debris.
- Make sure that there is no standing water in the bricks/blocks between storms.
- Visually inspect the bricks/blocks after large storms to ensure the overflow drainage system is working.
- Inspect for erosion, rills, or gullies and repair.

Monthly Activities (April – October)

- Keep the permeable bricks/blocks free of trash, debris, and sediment.
- Make sure that there is no standing water in the bricks/blocks between storms.
- Remove weeds and grass growing between the bricks/blocks. (unless concrete grid pavers are being used)
- Mow grass within the bricks/blocks. (only for concrete grid with grass)
- Mow / trim grass or vegetation near the bricks/blocks and remove clippings from area.
- Inspect the bricks/blocks for damage and repair.
- Vacuum sweep permeable brick/block surface to keep free of sediment.
- After cleaning, additional aggregate may need to be added between the pavers.

Annual Activities

- Replace aggregate between pavers as necessary.

Reference Georgia Stormwater Management Manual Operations and Maintenance Guidance Document Pervious Pavers Inspection Checklist on page 67-69
https://cdn.atlantaregional.org/wp-content/uploads/operation-and-maintenance-guidance-document.pdf

Permeable Bricks/Blocks					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, leaves, etc. removed).					
Area around the practice is mowed and grass clippings are removed. No signs of bare or dead grass.					
No evidence of gullies, rills, or erosion around the practice.					
Water is permeating the bricks/blocks (i.e. no evidence of water going around the practice).					
Bricks/blocks are structurally sound. No signs of cracks or splitting.					
Aggregate between the bricks/blocks is reasonable.					
No evidence of long-term ponding or standing water in the practice.					
Grass in the concrete grid is healthy, no dead grass or bare spots.					
Grass in the concrete grid is mowed and grass clippings are removed.					
Structure seems to be working properly. No signs of the bricks/blocks settling. Comment on overall condition of bricks/blocks.					
Vegetation within and around practice is maintained. Grass clippings are removed.					
No exposed soil near the bricks/blocks that could cause sediment accumulation within the practice.					
Cleanout caps are present and not missing (if applicable).					
The underdrain system has been flushed properly and there is no sign of clogging (if applicable).					
Results					
Overall condition of Permeable Bricks/Blocks:					

Permeable Bricks/Blocks					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
Additional Comments					
Notes: * If a specific maintenance item was not checked, please check N/A and explain why in the appropriate comment box.					

Porous Asphalt					
Maintenance Item	Condition				Comment
	Good	Marginal	Poor	N/A*	
General Inspection					
Access to the site is adequately maintained for inspection and maintenance.					
Area is clean (trash, debris, grass clippings, etc. removed).					
Filter Strip (if applicable) – area is free of trash debris and sediment. Area has been mowed and grass clippings are removed. No evidence of erosion.					
Asphalt is structurally sound. No signs of cracks or raveling (disintegration of material from surface down).					
No evidence of long-term ponding or standing water in the practice.					
Structure seems to be working properly. No settling around the structure. Comment on overall condition of structure.					
Vegetation around practice is maintained. Grass clippings are removed.					
No exposed soil near the asphalt.					
Cleanout caps are present and not missing.					
The underdrain system has been flushed properly and there is no sign of clogging (if applicable).					
Emergency overflow is free of trash, debris, and sediment.					
No evidence of erosion, scour, or flooding around the structure.					
Results					
Overall condition of Porous Asphalt:					
Additional Comments					
Notes: *If a specific maintenance item was not checked, please explain what and why in the appropriate comment box.					