

INSPECTION AND MAINTENANCE AGREEMENT OF PRIVATE STORMWATER MANAGEMENT FACILITIES

COF # _____ MAP & PARCEL NO.: _____

PROJECT NAME: _____

PROJECT ADDRESS: _____

THIS AGREEMENT, made this ____ day of _____, 20____, by and between _____ hereinafter referred to as the "OWNER(S)" of the referenced property and City of Franklin, Tennessee, hereinafter referred to as the "CITY",

Being all or a portion of the land acquired by (name) _____, by (deed type) _____ from (name) _____, dated _____, of record in Book # _____, Page # _____, Register's Office of Williamson County, Tennessee.

WITNESSETH

WE, the OWNER(S), with full authority to execute deeds, mortgages, other covenants, all rights, titles, and interests in the property described above, do hereby covenant with the CITY and agree as follows:

1. The OWNER(S) covenant and agree with the CITY that the OWNER(S) shall provide for adequate long term maintenance and continuation of all features and infrastructure that capture, convey, treat or detain stormwater located onsite. This shall be further described and shown in the Long-Term Maintenance Plan, attached hereto as Exhibit A, to ensure that the facilities, are and remain in proper working condition in accordance with approved design standards, rules and regulations, and applicable laws. The OWNER(S) shall perform preventative maintenance activities at intervals described in the schedule included in the Long-Term Maintenance Plan with necessary landscaping (grass cutting, etc.) and trash removal as part of regular maintenance.
2. The OWNER(S) shall submit to the CITY an annual report by July 1st of each year. The report will include the Long-Term Maintenance Plan that document inspection schedule, times of inspection, remedial actions taken to repair, modify or reconstruct the system and the state of control measures.
3. The OWNER(S) shall grant to the CITY or its agent or contractor the right of entry at reasonable times and in a reasonable manner for the purpose of inspecting, operating, installing, constructing, reconstructing, maintaining or repairing the facility.
4. The OWNER(S) shall grant to the CITY the necessary easements and rights-of-way and maintain perpetual access from public rights-of-way to the facility for the CITY or its agent and contractor in accordance with the Stormwater Management Ordinance. The OWNER(S) agree that should maintenance not be properly performed, after due notice, the CITY may order the work performed. The OWNER(S) shall reimburse the CITY upon demand the costs incurred and any enforcement action costs according to the Stormwater Management Ordinance and is due upon receipt.
5. The CITY is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the CITY.
6. If the OWNER fails to pay the CITY for the above expenses after forty-five (45) days written notice, the OWNER authorizes the CITY to collect said expenses from the OWNER through appropriate legal action and the OWNER shall be liable for the reasonable expenses of collection, court cost, and attorney fees.
7. The OWNER(S) shall indemnify and save the CITY harmless from any and all claims for damages to persons or property arising from OWNER(S) actions or inaction relating to the construction, maintenance, and use of the facility.
8. The Agreement and covenants contained herein shall apply to and bind the OWNER(S) and the OWNER(S)' heirs, executors, successors, and assigns, and shall bind all present and subsequent owners of the property served by the facility.
9. The OWNER(S) shall not be able to modify its responsibilities with respect to this agreement without the CITY's written prior consent. Nothing herein shall be construed to prohibit a transfer by OWNER(S) to subsequent owners and assigns.
10. The OWNER(S) shall record a plat showing and accurately defining the easements for stormwater control facilities. The plat must reference the Instrument Number where this AGREEMENT and attachments are recorded and contain a note that the OWNER(S) is responsible for maintaining the stormwater management facilities.
11. The OWNER(S), or the City on the OWNERS(S) behalf, shall record this AGREEMENT in the office of the Register of Deeds for the County of Williamson, Tennessee, and the AGREEMENT shall constitute a covenant running with the land, and shall be binding upon the OWNER(S) and the OWNER(S) heirs, administrators, executors, assigns, and any other successors in interest.

PROVIDED BY COF: SWG PERMIT # SWG - _____ COF CONTRACT NUMBER: _____

FOR THE OWNER(S):

ATTEST: OWNER SIGNATURE: _____

PRINT OWNER NAME: _____ TITLE: _____

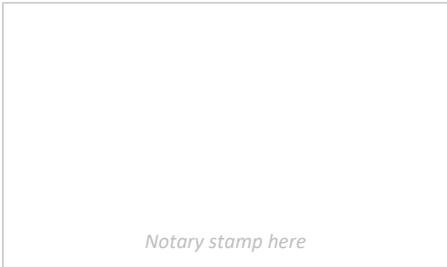
OWNER ADDRESS _____

OWNER PHONE & EMAIL: _____

OWNER NOTARY:

STATE OF _____ COUNTY OF _____

Before me, _____ (notary) of the state and county mentioned, personally appeared _____ (owner name), with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged such person to be president (or other officer authorized to execute the instrument) of _____ (company name), the within named bargainor, a corporation, and that such president or officer as such _____ (title), executed the foregoing instrument for the purpose therein contained, by personally signing the name of the corporation as _____ (company name).



Notary stamp here

WITNESS my hand and seal this _____ day of _____, 20 ____.

NOTARY PUBLIC My Commission Expires: _____

PREPARED BY: **CITY OF FRANKLIN, DEPARTMENT OF ENGINEERING**

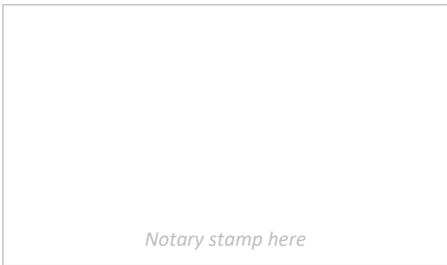
ATTEST: _____ Date _____

CITY OF FRANKLIN, DEPARTMENT OF ENGINEERING
109 3rd AVENUE SOUTH, FRANKLIN, TN 37064

CITY NOTARY:

STATE OF TENNESSEE COUNTY OF WILLIAMSON

Before me, _____ of the state and county mentioned, personally appeared _____, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who acknowledge themselves to be the Stormwater Management Coordinator of the City of Franklin, Tennessee and that as such Stormwater Management Coordinator, being authorized so to do, executed the foregoing instrument of the purposes therein contained.



Notary stamp here

WITNESS my hand and seal this _____ day of _____, 20 ____.

NOTARY PUBLIC My Commission Expires: _____

EXHIBIT A - LONG TERM MAINTENANCE PLAN (LTMP)

PROJECT NAME: Shawnee PUD	COF#:
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SUBDIVISION/SECTION/LOT:

ADDRESS:	MAP & PARCEL:
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LAT/LONG:	IMPERVIOUS SQ. FT.
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CONTACT INFO:	Owner	Prepared By:
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NAME & COMPANY:		
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ADDRESS:		
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PHONE:		
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Email:		
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**Owner shall submit Annual Inspection Reports to the City of Franklin's Engineering Dept. no later than July 1st of each year*

STORMWATER SYSTEM FEATURES LOCATED ON SITE:

<input checked="" type="checkbox"/> Bioretention/Rain Gardens	Infiltration Trenches	<input checked="" type="checkbox"/> Dry Ponds	Green Roof
Water Quality Swales	Riparian Buffers	Wet Ponds	Wetland
Oil Grit Separator/Water Quality Unit	Underground Detention	<input checked="" type="checkbox"/> Storm Sewer	<input checked="" type="checkbox"/> Grass Swales
<input checked="" type="checkbox"/> Permeable Pavers/Concrete	Other:		

ALL OF THE FOLLOWING DOCUMENTS SHALL BE ATTACHED AND INCLUDED WITH THIS FORM:

<input checked="" type="checkbox"/>	Location Map
<input checked="" type="checkbox"/>	Stormwater Features Location Sheet: include detailed exhibits of the BMP's and a site map showing the location of all BMP's and stream buffers: CLEARLY LABELED
	Oil Grit Separator/Water Quality Unit 2 year maintenance agreement
<input checked="" type="checkbox"/>	Maintenance narrative & description of each BMP to be inspected
<input checked="" type="checkbox"/>	BMP inspection and maintenance form for each BMP located on site

AS-BUILT DRAWINGS of the stormwater controls will be provided to the City upon completion of the site construction.

ACCESS: As agreed to with the Inspection and Maintenance Agreement, the owner shall grant to the City of Franklin or its agent or contractor the right of entry at reasonable times and in a reasonable manner for the purpose of inspecting, operation, installing, constructing, reconstructing, maintain, or repairing the facility.

WASTE & SEDIMENT DISPOSAL: Trash and debris collected from the stormwater sewer system shall be properly disposed with a licensed sanitation company. All sediment and debris shall be disposed at a licensed landfill in accordance with all local, state, and federal laws. If any sediment is believed to be contaminate, the Tennessee Department of Environment and Conservation (TDEC)-Division of Water Pollution Control should be contacted at (615)-532-0625.

CERTIFICATION: *Signed by the Engineer/Design Professional that completed this Maintenance Plan*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PRINT NAME:	SIGNATURE:	DATE:
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ADDRESS:	PHONE & EMAIL:
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OWNER'S AUTHORIZATION:	PRINT:	SIGNATURE:
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BMP Long-Term Maintenance Agreement

Shawnee PUD Subdivision

COF# 8404

Parcel 078H A 004.00

1101 Shawnee Drive

City of Franklin

Williamson County, Tennessee

May 2, 2024

Disclaimer:

This document was developed to provide a model for the BMP Maintenance Agreement document as required by the City of Franklin. It provides a sample of the minimum information required by the City and may not be all inclusive. Refer to the City of Franklin Stormwater Ordinance to ensure that all requirements are met.

Prepared by:

Jamie Gillespie, P.E.

James + Associates Engineers and Planners, Inc.

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(615) 726-4848 ♦ www.jamesplus.net

J+A #: 1716-27

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1.0 Overview

This Long-Term Maintenance Agreement is a component of the Inspection and Maintenance Agreement for Private Stormwater Management Facilities that has been completed, notarized, and recorded in the Register's Office of Williamson County, Tennessee. A copy of this agreement will be kept on-site with this document.

The purpose of this Best Management Practices (BMP) Long-Term Maintenance Plan is to inform the property owner(s) of Franklin Housing Authority at Shawnee Place (see Figure 1 for vicinity map) about the maintenance obligations of the BMP stormwater components being utilized.

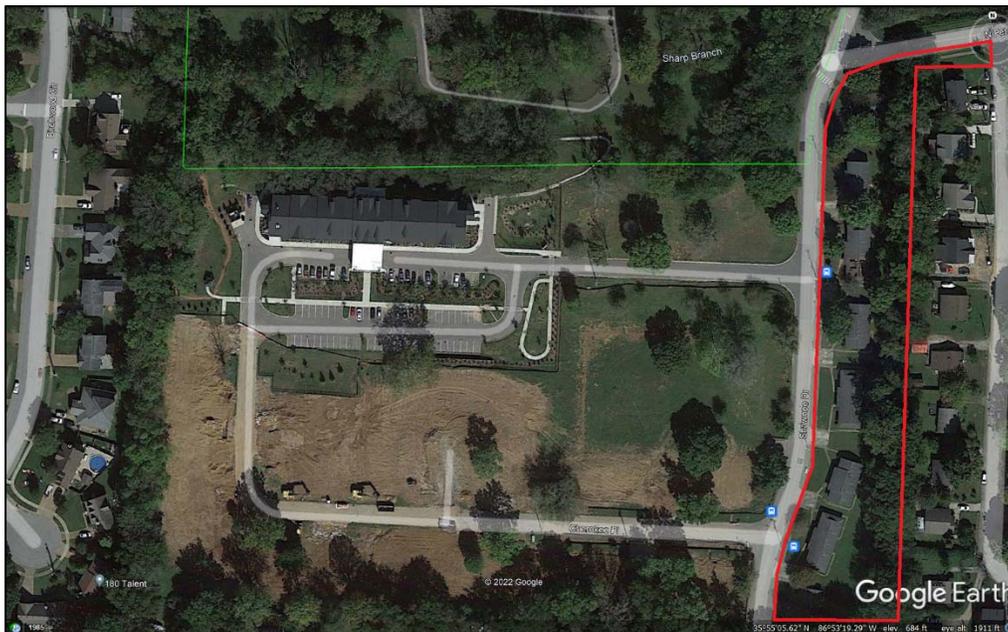


Figure 1: Vicinity Map – Lat.: 35.917575°N, Long.: -86.888642°W

2.0 Stormwater System Description – Site Narrative

The stormwater system is comprised of storm sewer, drainage ditches, bioretention ponds, and dry detention ponds. LID infrastructure is the main component of drainage conveyance, along with storm sewer and drainage ditches. Stormwater infrastructure is designed per the City of Franklin’s Stormwater Ordinance for the 25-year rain event. Contributing flows to each component were determined using Hydraflow Hydrographs modeling software.

The runoff from the southern portion of the site, south of the intersection of the new driveway at Chickasaw Place, will be routed to Bioretention Pond 1. Stormwater will be routed to the bioretention pond by means of storm sewer and sheet flow, with the outfalls of storm sewer located in a forebay for pre-treatment. The runoff from the northern portion of the site, north of the intersection of the new driveway at Chickasaw Place, will be routed to Bioretention Pond 2. Detention ponds will be constructed adjacent to the bioretention ponds to be used for additional storage. A portion of the walking trail to the southern end of the site will be constructed of pervious concrete to reduce the total site impervious area and increase treatment volume. See the Water Quality Exhibit, below, and LID Exhibit and included in Appendix A for additional details.

Offsite drainage will be directed by means of storm sewers from the outfall points at the north and south ends of the site. The southern outfall point coincides with the inlet of an existing storm sewer, which will direct runoff into a storm sewer system, which outfalls to an existing detention pond north of Cherokee Place. The northern outfall point coincides with the inlet of a storm sewer, which directs flow to an outfall to the north of North Petway Street into Sharps Branch. The existing storm sewers are sufficient per the City of Franklin’s Stormwater Ordinance to convey site runoff from the 25-year storm event.

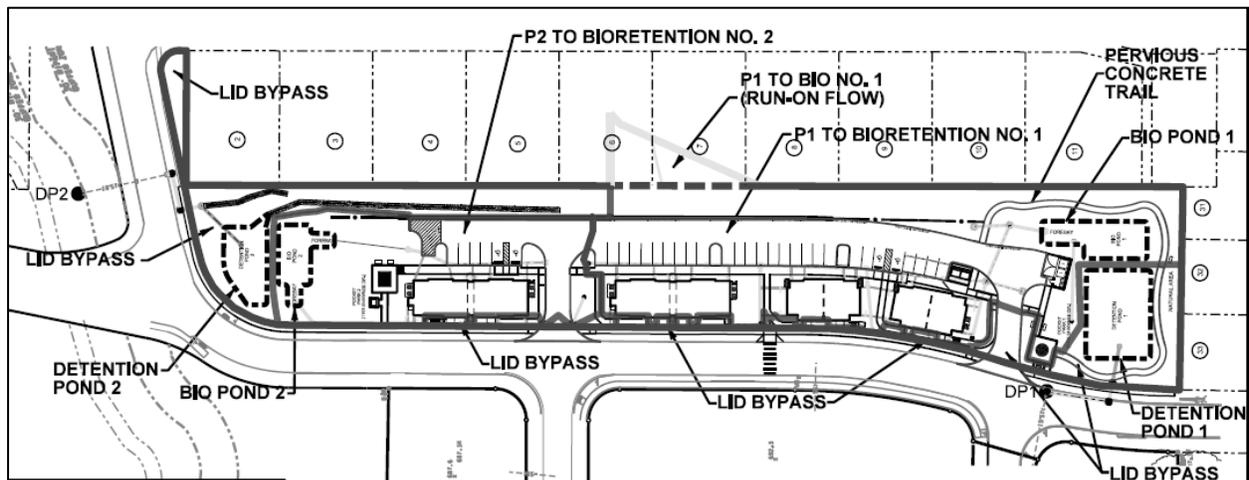


Figure 3: Water Quality System Exhibit

3.0 Inspection and Maintenance – Maintenance Narrative

3.1 Water Quality Structure(s)

In order for the proprietary water quality structure(s) to provide effective water quality treatment, routine inspection and maintenance will be required as outlined below:

BIORETENTION AREAS

First Year Maintenance Operations

Successful establishment of bioretention areas (GIP 01 – City of Best Management Practice Stormwater Management Manual) requires that the following tasks be undertaken in the first year following installation:

- **Initial inspections.** For the first 6 months following construction, the site should be inspected at least twice after storm events that exceed 0.5 inch of rainfall.
- **Spot Reseeding.** Inspectors should look for bare or eroding areas in the contributing drainage area or around the bioretention area, and make sure they are immediately stabilized with grass cover.
- **Fertilization.** One-time, spot fertilization may be needed for initial plantings.
- **Watering.** Depending on rainfall, watering may be necessary once a week during the first 2 months, and then as needed during first growing season (April-October), depending on rainfall.
- **Remove and replace dead plants.** Since up to 10% of the plant stock may die off in the first year, construction contracts should include a care and replacement warranty to ensure that vegetation is properly established and survives during the first growing season following construction. The typical thresholds below which replacement is required are 85% survival of plant material and 100% survival of trees.

BIORETENTION AREAS

Maintenance Inspections

It is highly recommended that a spring maintenance inspection and cleanup be conducted at each bioretention area. The following is a list of some of the key maintenance problems to look for:

- Check to see if 75% to 90% cover (mulch plus vegetative cover) has been achieved in the bed and measure the depth of the remaining mulch.
- Check for sediment buildup at curb cuts, gravel diaphragms or pavement edges that prevents flow from getting into the bed and check for other signs of bypassing. Remove accumulated sediment.
- Check for any winter- or salt-killed vegetation and replace it with hardier species from approved plant list.
- Note presence of accumulated sand, sediment and trash in the pre-treatment cell or filter beds and remove it.
- Inspect bioretention side slopes and grass filter strips for evidence of any rill or gully erosion, and repair, and stabilize any issues found.
- Check the bioretention bed for evidence of mulch flotation, excessive ponding, dead plants or concentrated flows, and take appropriate remedial action.
- Check inflow points for clogging and remove any sediment.
- Look for any bare soil or sediment sources in the contributing drainage area and stabilize them immediately.
- Check for clogged or slow-draining soil media, a crust formed on the top layer, inappropriate soil media, or other causes of insufficient filtering time, and restore proper filtration characteristics.
- Check for any apparent damage to stormwater infrastructure including curb cuts, drainage flume, catch basins, storm sewer, and underdrains. Repairs to damage to on-site stormwater infrastructure or off-site drainage flume shall be the responsibility of the owner.

BIORETENTION AREAS

Routine and Non-Routine Maintenance Tasks

Following significant storm events:

- Inspect bioretention areas for water remaining on the surface for more than 24 hours after a storm. Adjustments to grading or underdrain repairs may be needed.
- Filter bed surface should be inspected for accumulated sediment or buildup of fine crust after the first several storm events.
- Recommended filter rehabilitation guidelines are included in Appendix A.
- Open the underdrain observation well or cleanout and pour in water to verify that the underdrains are functioning and not clogged or otherwise in need of repair. The purpose of this check is to see if there is standing water all the way down through the soil. If there is standing water on top, but not in the underdrain, then there is a clogged soil layer. If the underdrain and standpipe indicate standing water, then the underdrain must be clogged and will need to be snaked.
- Remove accumulated sediment and till 2 to 3 inches of sand into the upper 8 to 12 inches of soil.
- Install sand wicks from 3 inches below the surface to the underdrain layer. This reduces the average concentration of fines in the media bed and promotes quicker drawdown times. Sand wicks can be installed by excavating or augering (using a tree auger or similar tool) down to the gravel storage zone to create vertical columns, which are then filled with a clean open-graded coarse sand material (ASTM C-33 concrete sand or similar approved sand mix for bioretention media). A sufficient number of wick drains of sufficient dimension should be installed to meet the design dewatering time for the facility.
- Remove and replace some or all of the soil media.

BIORETENTION AREAS

Monthly:

- Remove debris from adjacent area, inlet and outlet structures, concrete drainage flume, storm sewer and roof drain outlets, and from within facilities.

At least 4 times per year:

- Mow grass filter strips and bioretention turf cover.

Bi-annually:

- Twice during the growing season, remove spot weeds, repair eroded areas, remove trash, and rake mulch.

Annually:

- Complete spring inspection and cleanup.
- Supplement mulch to maintain 3-inch layer.
- Prune trees and shrubs.
- Recommended spring cleanup and inspection practices area included in Appendix A.

As needed, based on inspection:

- Add reinforcement planting to maintain desired vegetation density.
- Remove invasive plants using recommended control methods.
- Stabilize contributing drainage areas to prevent erosion.
- Once every 2 to 3 years, remove the sediment in pre-treatment cells and inflow points.
- Once every 3 years, replace the mulch layer in bioretention areas.

Inspections will be documented on the Stormwater Proprietary BMP Inspections and Maintenance Checklist, located in Appendix B, as published in the 2021 edition of the City of Franklin's Best Management Practice Stormwater Management Manual.

Filter Bed Rehabilitation Guidelines

There are several methods that can be used to rehabilitate the filter (try the easiest things first, as listed below):

- Open the underdrain observation well or cleanout and pour in water to verify that the underdrains are functioning and not clogged or otherwise in need of repair. The purpose of this check is to see if there is standing water all the way down through the soil. If there is standing water on top, but not in the underdrain, then there is a clogged soil layer. If the underdrain and stand pipe indicates standing water, then the underdrain must be clogged and will need to be snaked.
- Remove accumulated sediment and till 2 to 3 inches of sand into the upper 8 to 12 inches of soil.
- Install sand wicks from 3 inches below the surface to the underdrain layer. This reduces the average concentration of fines in the media bed and promotes quicker drawdown times. Sand wicks can be installed by excavating or augering (using a tree auger or similar tool) down to the gravel storage zone to create vertical columns which are then filled with a clean open-graded coarse sand material (ASTM C-33 concrete sand or similar approved sand mix for

bioretention media). A sufficient number of wick drains of sufficient dimension should be installed to meet the design dewatering time for the facility.

- Remove and replace some or all of the soil media.

Spring Cleanup and Inspection Guidelines

It is highly recommended that a spring maintenance inspection and cleanup be conducted at each bioretention area. The following is a list of some of the key maintenance problems to look for:

- Check to see if 75% to 90% cover (mulch plus vegetative cover) has been achieved in the bed, and measure the depth of the remaining mulch.
- Check for sediment buildup at curb cuts, gravel diaphragms or pavement edges that prevents flow from getting into the bed, and check for other signs of bypassing.
- Check for any winter- or salt-killed vegetation, and replace it with hardier species.
- Note presence of accumulated sand, sediment and trash in the pre-treatment cell or filter beds, and remove it.
- Inspect bioretention side slopes and grass filter strips for evidence of any rill or gully erosion, and repair it.
- Check the bioretention bed for evidence of mulch flotation, excessive ponding, dead plants or concentrated flows, and take appropriate remedial action.
- Check inflow points for clogging, and remove any sediment.
- Look for any bare soil or sediment sources in the contributing drainage area, and stabilize them immediately.
- Check for clogged or slow-draining soil media, a crust formed on the top layer, inappropriate soil media, or other causes of insufficient filtering time, and restore proper filtration characteristics.

DETENTION PONDS

Maintenance Tasks

Routine Maintenance:

- **Outlet Structure:** Keep outlets such as the outlet structure, the low flow orifice, and the emergency spillway free from blockage by sediment, debris, or trash.
- **Dam/Embankment:** Mow grassed dam and embankment of the wet pond to prevent woody debris from establishing.
- **Erosion and Scour:** Repair soil erosion or scouring on the side slopes leading into the wet pond.
- **Vegetation Management:** Remove vegetation from around the outlet structure and inlet of the wet pond.
- **Sediment and Debris:** Remove accumulated sediment and debris from the forebay and ponding area.

Non-Routine Maintenance:

- **Excessive Sediment:** Remove sediment from the ponding area when the pool volume is reduced by 25% or more.
- **Invasive Vegetation:** Treat and remove invasive vegetation from the ponding area, forebay, side slopes, and dam. Cattails are a common invasive vegetation that grow within wet ponds.
- 9
- **Outlet Structure:** Repair or replace the damaged outlet structure.
- **Erosion Protection:** Repair or replace the stone protection at the inlets, outlets, and emergency spillway.
- **Dam/Embankment:** If seepage, leaks, or erosion is discovered on the dam or embankment, seek professional consultation from an engineer.

Maintenance Inspections

Maintenance Required When:

- Outlet, or low flow orifice, is blocked by trash, debris, or vegetation.
- Erosion in and around the emergency spillway or the embankments, or side slopes, of the pond.
- Forebay area is blocked with sediment or trash.
- Excessive vegetation within the bottom, side slopes, or dam of a pond.
- Animal burrows within the dam or side slopes of the pond.
- Trees, or woody vegetation, growing on the dam.
- Dam or embankment show signs of visible water seepage

PERMEABLE PAVEMENT

Maintenance Tasks

It is difficult to prescribe the specific types or frequency of maintenance tasks that are needed to maintain the hydrologic function of permeable pavement systems over time. Most installations work reasonably well year after year with little or no maintenance, whereas some have problems right from the start.

One preventative maintenance task involves use of an automatic leaf blower on a frequency consistent with the use and loadings encountered on the walking trail. Blower use should be performed once or twice a year. This frequency should be adjusted according to the intensity of use and deposition rate on the permeable pavement surface. More frequent blowing, with a handheld or backpack blower, may also help prevent organic material from impacting the paver surface. Joint material shall be replaced in the interlocking paver system upon completion of the regular maintenance activities.

Maintenance Inspections

It is highly recommended that a spring maintenance inspection and cleanup be conducted at each permeable pavement site, particularly at large-scale applications. Maintenance of permeable pavement is driven by annual inspections that evaluate the condition and performance of the practice. The following are suggested (at minimum) annual maintenance inspection points for permeable pavements:

- The drawdown rate should be measured at the observation well for three (3) days following a storm event in excess of 0.5 inch in depth. If standing water is still observed in the well after three days, this is a clear sign that clogging is a problem.
- Inspect the surface of the permeable pavement for evidence of sediment deposition, organic debris, staining or ponding that may indicate surface clogging. If any signs of clogging are noted, schedule a vacuum sweeper (no brooms or water spray) to remove deposited material. Then, test sections by pouring water from a five-gallon bucket to ensure they work.
- Inspect the structural integrity of the pavement surface, looking for signs of surface deterioration, such as slumping, cracking, spalling or broken pavers. Replace or repair affected areas, as necessary.
- Check inlets, pretreatment cells and any flow diversion structures for sediment buildup and structural damage. Note if any sediment needs to be removed (if applicable).
- Inspect the condition of the observation well and make sure it is still capped (if applicable).
- Inspect any contributing drainage area for any controllable sources of sediment or erosion.

GRASS SWALES

Maintenance Tasks & Inspections

Grass swales are designed to take stormwater runoff through an open channel lined with grass to help filter pollutants. Erosion is the main issue that arises in grass channels. It can occur at the inlet, typically a headwall, or throughout the channel. Any erosion should be fixed, and the area stabilized. Some scour protection may be needed if erosion continues to occur.

Maintenance is required when:

- Erosion or bare soil is visible in the bottom of the swale or on the side slopes.
- Trash, debris, or sediment have accumulated within the swale or in front of the inlet.

STORM SEWER

Maintenance Tasks & Inspections

Storm sewer components including catch basins, inlets, pipes, headwalls, and endwalls should be checked for structural soundness and any blockage or debris in the system.

- Structural damage or deficiency in catch basins, inlets, pipes, and headwalls/ endwalls should be noted and repaired to proper working condition.
- Sediment and debris clogging pipes, inlets, and outlets is a significant issue and any sediment or debris should be removed when a structure is filled to 20% capacity or greater.
- Erosion and scouring around headwalls and endwalls is an issue following high intensity rain events that cause high flow rates and velocity through storm sewer systems and should be noted.
- Any pollutants, discoloration, or odors in storm sewer should be noted in location and described in detail. Concrete pipes and structures should be checked for cracking, spalling, or displacement.

3.2 Trash and Sediment Disposal

The accumulated sediment, oils, and trash collected from the proprietary water quality structures should be removed from the site and disposed of by a licensed sanitation company in accordance with local, state, and federal law. If pollutants are spilled on site and washed into the water quality structures or structure, special provisions will be required. If there is uncertainty about the pollutant level contained within the structures, then the Tennessee Department of Environment and Conservation (TDEC), Division of Water Pollution Control shall be contacted at (615) 532-0625.

3.3 Party Liable for Inspection and Maintenance

Franklin Housing Authority (FHA) shall designate one person responsible for inspection and maintenance of the stormwater system, and shall assume interim responsibility until that designation has been made.

Doug Johns, Director of Development and Maintenance

Franklin Housing Authority

200 Spring Street,

Franklin, TN 37064

615-794-1247

3.4 Provisions for Permanent Access and Maintenance Easements

Per the Inspection and Maintenance Agreement for Private Stormwater Management Facilities, located in Appendix D, the owner(s) shall grant The City of Franklin or its agent or contractor the right of entry at reasonable times and in a reasonable manner for the purpose of inspecting, operating, installing, constructing, reconstructing, maintaining or repairing the stormwater facility. If the land is sold to anyone at a future date, this Long-Term Maintenance Agreement shall be revised for the new owner, before the sale of this land.

This agreement will apply to the drainage infrastructure within the subject property. Maintenance and repair of stormwater infrastructure covered by this agreement is the responsibility of the property owner.

Plan Revisions

This plan shall be updated as necessary to ensure that the discharge requirements of the City of Franklin are being met. Revisions are recorded in the following places:

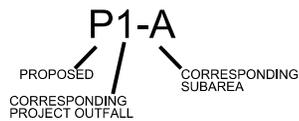
DATE REVISED	ITEMS REVISED

Appendix A: FEMA Firmette and LID Exhibit

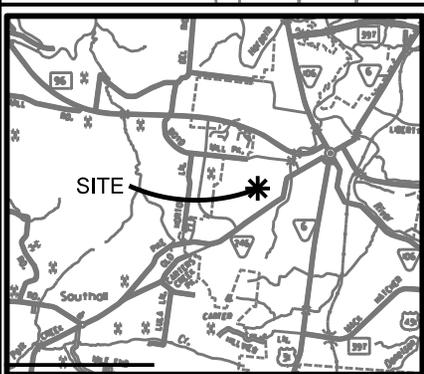
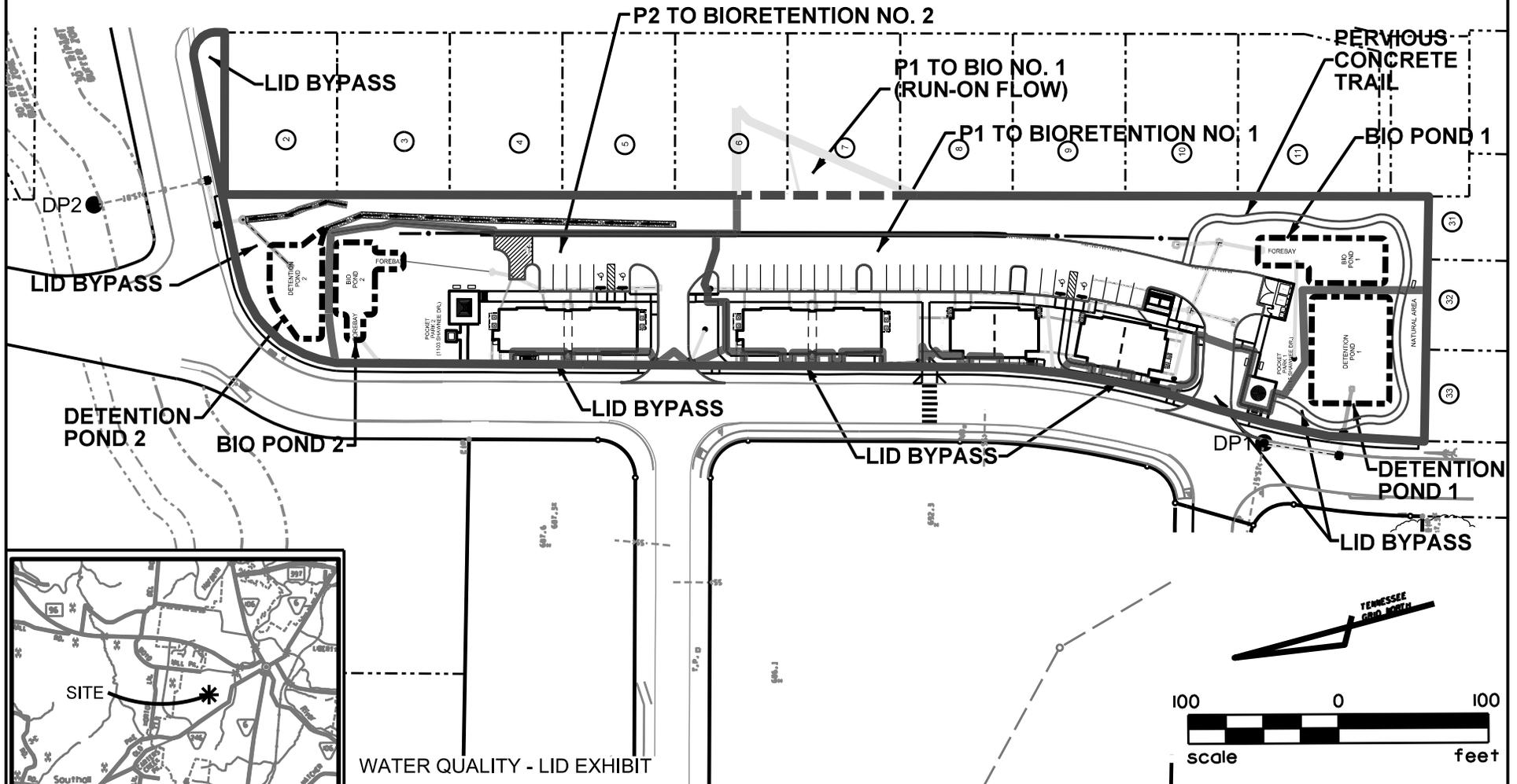
LEGEND:

-  BIORETENTION/ DETENTION POND
-  RIP-RAP LINED GRASS SWALE
-  STORM SEWER
-  IMPERVIOUS AREA
-  PRIMARY DRAINAGE BOUNDARY
-  SECONDARY DRAINAGE BOUNDARY
-  DP1 ● PRIMARY DRAINAGE POINT

DRAINAGE AREA LABELING:



NOTE: 1. THIS EXHIBIT MAY NOT INCLUDE OR HIGHLIGHT THE MOST CURRENT SCM LOCATIONS AND DETAILS ON SITE AS SITE PLAN DETAILS CAN OFTEN CHANGE THROUGH LATER SUBMITTALS AFTER RECORDING OF THE INITIAL LTMP. PLEASE REFERENCE THE MOST CURRENT APPROVED SITE PLAN WITH THE CITY IF THE FEATURES SHOWN ON THIS EXHIBIT APPEAR TO DEVIATE FROM WHAT HAS BEEN INSTALLED ONSITE.



VICINITY MAP
NOT TO SCALE

WATER QUALITY - LID EXHIBIT

JA ENGINEERS
Planners and
Computer Applications
JAMES + ASSOCIATES, INC.

SHAWNEE PLANNED UNIT DEVELOPMENT
FRANKLIN HOUSING AUTHORITY
CHEROKEE PLACE AND SHAWNEE DRIVE
FRANKLIN, WILLIAMSON COUNTY, TN

EX A

FILE NO. 1716-27

LANDSCAPE DATA CHART

AREA OF CALCULATION 2.24 AC
 SITE ZONING PD
 MIN. REQ. LSA 20.0% (0.448 AC)
 PROVIDED LSA 66.5% (0.904 AC OR 1.49 AC)
 MIN. REQ. FORMAL OPEN SPACE 5% (0.112 SF)
 PROVIDED FORMAL OPEN SPACE 5.342 SF
 PROVIDED NATURAL AREA 10,450 SF
 SEE C-10 FOR FORMAL OPEN SPACE AREAS

100% Healthy Trees to Remain <14" TL
 Total ACF of Trees <14" to Remain: 173
 Total Healthy Trees to Remain >14" >2"
 Total ACF of Trees >14" to Remain: 852
 100% Healthy Trees to be Removed >24" TL
 Total ACF of Trees to be Removed: 142 (22' x 22' x 142)
 Total Canopy Inch of Replacement: (142 x 2) = 284" REPLACEMENT INCHES

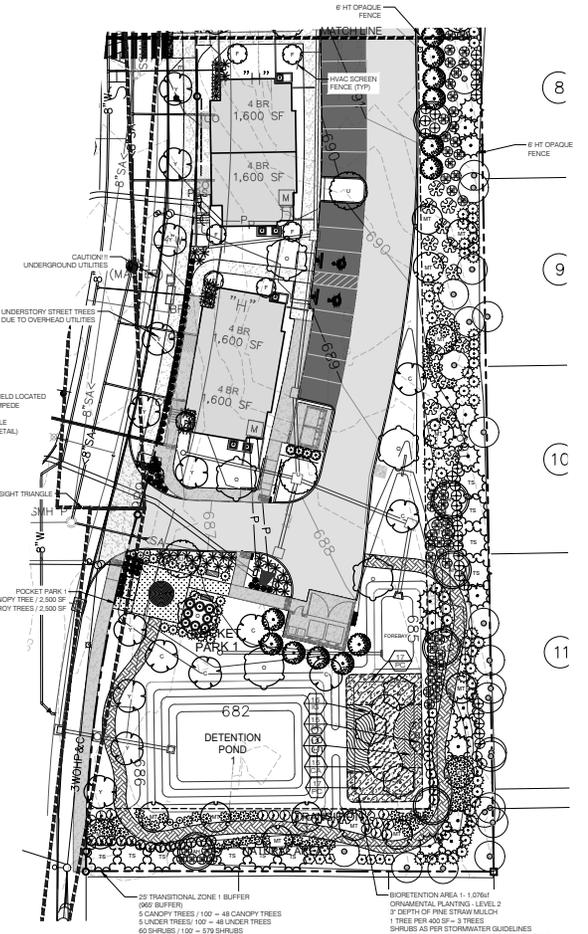
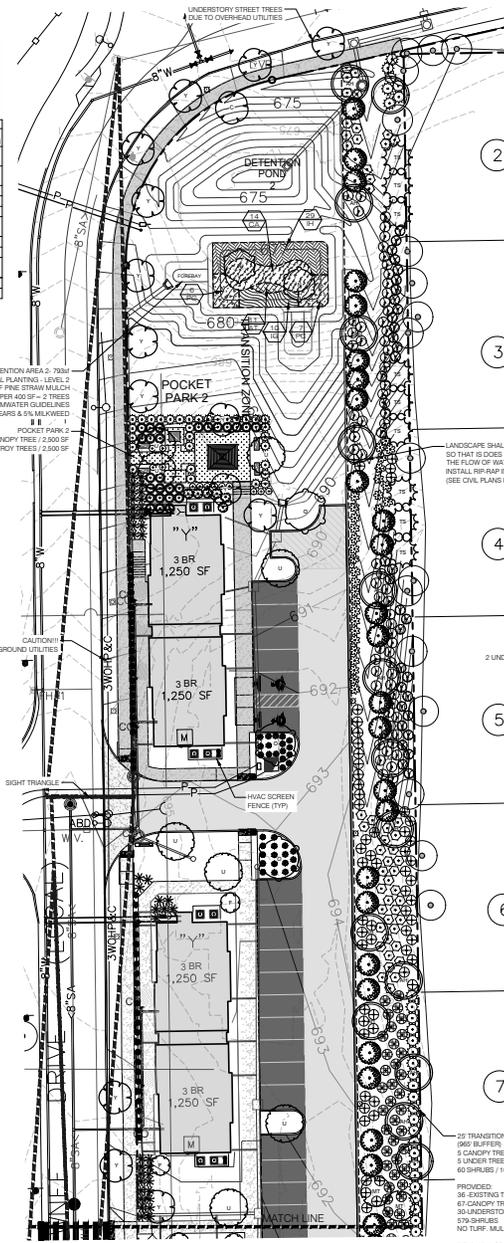
EXISTING TREE CANOPY ON SITE: 42,253.2 SF (0.97 AC)
 REG. CANOPY RETENTION (20% OF EXISTING COVER): 8,450.6 SF (0.194 AC)
 PROPOSED CANOPY RETENTION (50.8% 22.65' x 2' (0.52 AC))

Landscape Requirements (AC)		
Provided LSA: 2.4 AC	Quantity Provided	Inches Provided
Credit for 0.52 AC OF PRESERVATION LSA = 1.88	Proposed	Canopy
Aggregate Canopy Canopy Inches Required (824): 888	154	154
Aggregate Canopy Canopy Inches Provided:		+155
EXISTING CALIPER INCH >14" (3,221): 251	22	865
3" Canopy Trees:	0	0'
2" Canopy Trees:	0	0'
Aggregate Understory Canopy Inches Required (214): 388	39.5	497
Aggregate Understory Canopy Inches Provided:		+497
2" Understory Trees:	0	0'
1.5" Understory Trees:	1	0'
Replacement Canopy Inches Required (142x2):	54	284
Replacement Canopy Inches Provided:		+284
2" Replacement Trees:	54	162
2" Replacement Trees:	61	122
Total Shrubs Required (96x1.88):	181	
Min. 30" Height Shrubs:	626	
Other Shrubs Provided:	626	

* REQUIREMENTS MET BY EXISTING PRESERVED TREES

BIORETENTION AREA 2: 793sf
 ORNAMENTAL PLANTING: LEVEL 2
 3" DEPTH OF PINE STRAW MULCH
 1 TREE PER 40 SF - 2 TREES
 SHRUBS AS PER STORMWATER GUIDELINES
 WITH 75% COVERAGE IN 2 YEARS & 5% MILKWEED

POCKET PARK 2
 1 CANOPY TREES / 2,500 SF
 2 UNDERSTORY TREES / 2,500 SF



LANDSCAPE SHALL BE FIELD LOCATED SO THAT DOES NOT IMPIDE THE FLOW OF WATER. INSTALL PERMANENT SWALE (SEE CIVIL PLANS FOR DETAILS)

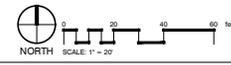
POCKET PARK 1
 1 CANOPY TREE / 2,500 SF
 2 UNDERSTORY TREES / 2,500 SF

BIORETENTION AREA 1: 1,056sf
 ORNAMENTAL PLANTING: LEVEL 2
 3" DEPTH OF PINE STRAW MULCH
 1 TREE PER 40 SF - 3 TREES
 SHRUBS AS PER STORMWATER GUIDELINES WITH 75% COVERAGE IN 2 YEARS & 5% MILKWEED

PROVIDED:
 36 EXISTING TREES
 67 CANOPY TREES
 30 UNDERSTORY TREES
 678 SHRUBS
 NO TURF MULCH ENTIRE BUFFER WITH 3"-4" PINE STRAW MULCH
 FIELD ADJUST BUFFER PLANTINGS FOR MINIMAL IMPACT TO ROOTS STRUCTURE OF EXISTING TREES.

25' TRANSITIONAL ZONE 1 BUFFER (20' BUFFER)
 5 CANOPY TREES / 100' - 48 CANOPY TREES
 5 UNDER TREES / 100' - 48 UNDER TREES
 60 SHRUBS / 100' - 179 SHRUBS

PROVIDED:
 36 EXISTING TREES
 67 CANOPY TREES
 30 UNDERSTORY TREES
 678 SHRUBS
 NO TURF MULCH BUFFER AREA WITH 3"-4" PINE STRAW MULCH
 FIELD ADJUST BUFFER PLANTINGS FOR MINIMAL IMPACT TO ROOTS STRUCTURE OF EXISTING TREES.



COF PROJECT NO.8404

Heibert+Ball
 LAND DESIGN
 1844 Glen, Georgia Project 03
 Franklin, TN 37068-0688
 615.378.2021 www.heibertball.com

One Vanhook Way, Suite C-205, Nashville, Tennessee 37208-1815 ☎ 615/752/7468

JA
 James + Associates
 Engineers and Computer Applications

JAMES + ASSOCIATES, INC.



LANDSCAPE PLAN

SHAWNEE PLANNED UNIT DEVELOPMENT
 FRANKLIN HOUSING AUTHORITY
 CHEROKEE PLACE AND SHAWNEE DRIVE
 FRANKLIN, WILLIAMSON COUNTY, TENNESSEE

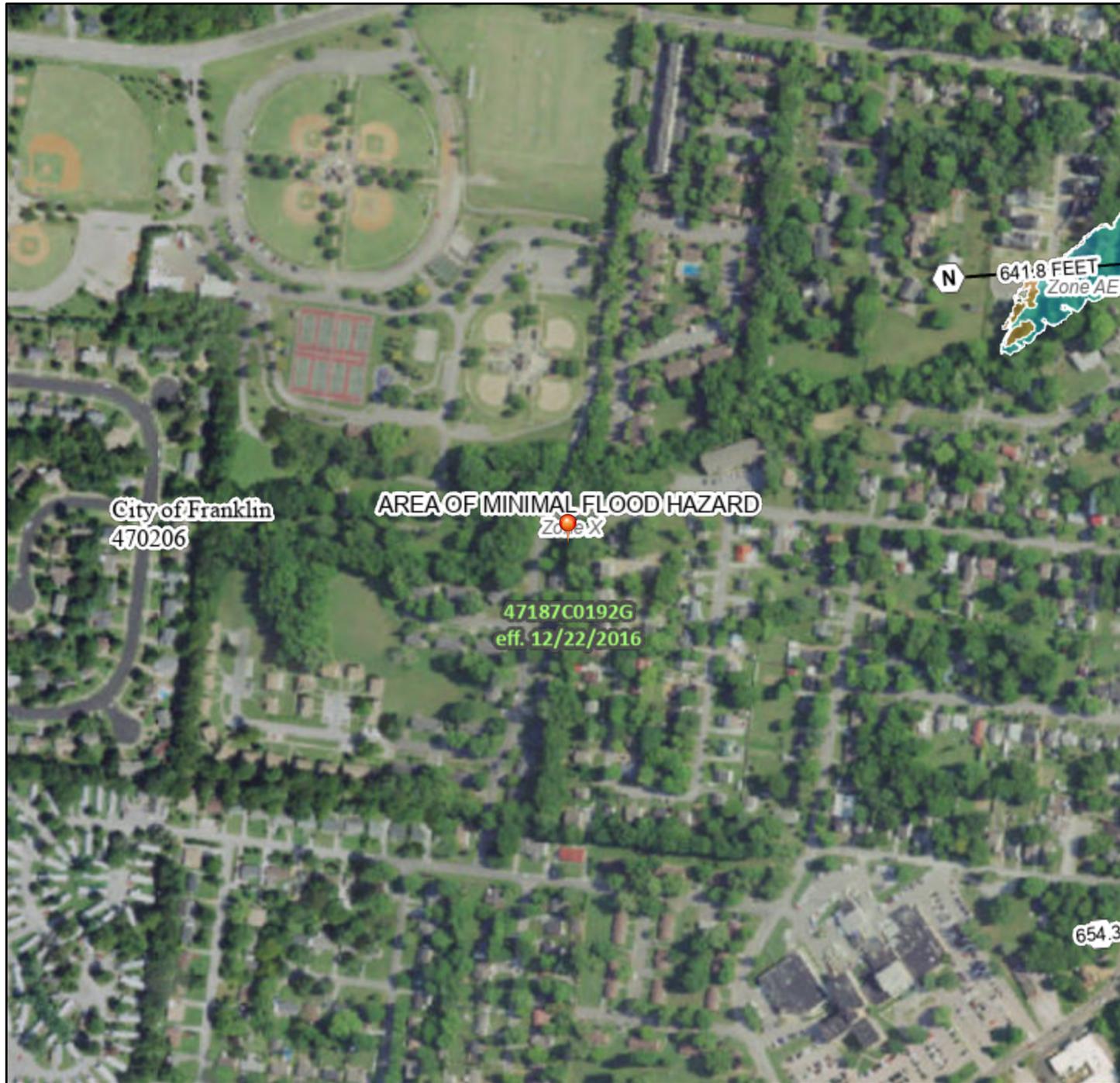
DATE	DESCRIPTION
12-22-23	SITE PLAN REVISION SUBMITTAL
04-07-24	SITE PLAN REVISION SUBMITTAL
04-30-24	SITE PLAN REVISION SUBMITTAL

L1:1
 FILE NO. 1716-24

National Flood Hazard Layer FIRMMette



86°53'32"W 35°55'24"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/22/2022 at 4:18 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix B: Proprietary BMP Inspection and Maintenance Checklist



Bioretention Inspections and Maintenance Checklist

Site Name: _____ Owner Change since last inspection? _____

Location: _____

Owner Name: _____

Address: _____ Phone Number: _____

Site Status: _____

Date: _____ Time: _____ Site conditions: _____

Inspection Frequency Key: A=annual (required); M=monthly (recommended); S=after major storms (recommended)

Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Pre-Treatment Area				
Area free of debris?	A/M			
Standing water longer than 24 hours after a storm event?	A/S			
Bare soil or erosion?	M/S			
Excessive landscape waste/yard clippings?	A/M			
Inlet/Outlet Structures				
Inlets provide stable conveyance into the facility?	A			
Evidence of erosion at or around inlet?	A			
If connected to extended detention, is outlet to pond functioning properly?	A			
Other	A			
Basin				
Adjacent area fully stabilized (no evidence of eroding material into Bioretention area)?	A			
Plant height not less than design ponding depth?	A			
Adequate media layer present?	A			
Plant composition according to approved plan?	A			
Is there any sign of mowing or disturbance?	A/M			
Vegetation overgrown?	A			
Invasive species/weeds present?	A			



Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Dead vegetation or exposed soil present?	A			
Maintenance access to facility?	A			
Excessive trash/debris/sediment?	A			
Evidence of erosion?	A			
Evidence of standing water (Ponding, Noticeable Odors, Water Stains, Algae)?	A/M			
If underdrain system, is it broken or clogged?	A/M			
Overflow structure free of blockage and operating properly?	A			
Other	A			
Hazards				
Have there been complaints from residents?	A/M			
Public hazards noted?	A/M			
Mosquito proliferation?	A/M			
Is there encroachment on pervious area or easement by buildings or other structures?	A/S			

Inspector Comments: _____

Overall Condition of Facility: Acceptable Unacceptable

If any of the above Inspection Items are checked "Yes" for "Maintenance Needed," list Maintenance actions and their completion dates below:

Maintenance Action Needed	Due Date

The next routine inspection is scheduled for approximately: _____
 (date)

Inspected by: (signature) _____

Inspected by: (printed) _____



Stormwater Pond Inspections and Maintenance Checklist

Site Name: _____ Owner Change since last inspection? Y N

Location: _____

Owner Name: _____

Address: _____ Phone Number: _____

Site Status: _____

Date: _____ Time: _____ Site conditions: _____

Stormwater Pond Type: Wet Pond Wet ED Pond Micropool Pond Multiple Pond System
 Dry Pond

Inspection Frequency Key: A=annual (required); M=monthly (recommended); S=after major storms (recommended)

Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Embankment and Emergency Spillway				
Vegetation healthy?	A/S			
Erosion on embankment?	A/S			
Animal burrows in embankment?	A/S			
Cracking, sliding, bulging of dam?	A/S			
Drains blocked or not functioning?	A/S			
Leaks or seeps on embankment?	A/S			
Slope protection failure functional?	A/S			
Emergency spillway obstructed?	A/S			
Erosion in/around emergency spillway?	A/S			
Other (describe)	A/S			
Riser and Principal Spillway				(describe type: concrete pipe, slotted weir, channel, etc.)
Low-flow orifice functional?	A/S			
Trash rack (Debris removal needed? Corrosion noted?)	A/S			
Sediment buildup in riser?	A			
Concrete/masonry condition (Cracks or displacement? Spalling?)	A			
Metal pipe in good condition?	A			
Control valve operation?	A			
Pond drain valve operation?	A			
Outfall channels function, not eroding?	A			
Other (describe)	A			
Sediment Forebays				
Sedimentation description				
Sediment cleanout needed (over 50	A/S			



Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
percent full)?				
Permanent Pool Areas (if applicable)				
Undesirable vegetation growth?	A/M			
Visible pollution?	A/M			
Shoreline erosion?	A/M			
Erosion at outfalls into pond?	A/M			
Headwalls and endwalls in good condition?	A/M			
Encroachment into pond or easement area by other activities?	A/M			
Evidence of sediment accumulation?	A			
Dry Pond Areas (if applicable)				
Vegetation adequate?	A/M			
Undesirable vegetation or woody plant growth?	A/M			
Excessive sedimentation?	A			
Hazards				
Have there been complaints from residents?	A/M			
Public hazards noted?	A/M			

Inspector Comments: _____

Overall Condition of Facility: Acceptable Unacceptable

If any of the above Inspection Items are checked "Yes" for "Maintenance Needed," list Maintenance actions and their completion dates below:

Maintenance Action Needed	Due Date

The next routine inspection is scheduled for approximately: _____
 (date)

Inspected by: (signature) _____
Inspected by: (printed) _____



Grass Channel Inspections and Maintenance Checklist

Site Name: _____ Owner Change since last inspection? _____

Location: _____

Owner Name: _____

Address: _____ Phone Number: _____

Site Status: _____

Date: _____ Time: _____ Site conditions: _____

Inspection Frequency Key: A=annual; M=monthly; S=after major storms

Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Debris Removal				
Facility and adjacent area free of debris?	M			
Inlets and outlets free of debris?	M			
Any dumping of yard wastes into facility?	M			
Litter (branches) removed?	M			
Vegetation				
Surrounding area fully stabilized? (no evidence of eroding material into swale, channel or filter strip)	M			
Grass mowed?	M			
Grass height not less than 3 to 4 inches?	M			
Fertilized per specifications?	M			
Grasses planted according to approved plan?	M			
Unauthorized or inappropriate plantings?	A			
Grasses healthy? (no diseased or dying vegetation)	M			
Evidence of grasses stressed from inadequate watering?	M			
Filtration Capacity				
Clogging from oil or grease?	M			
Facility dewater between storms?	M			
Check dams and energy dissipaters/sumps				
Any evidence of sedimentation buildup?	A,S			
Are sumps greater than 50% full of sediment?	A,S			



Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Any evidence of erosion and downstream toe of drop structures?	A,S			
Any trash or blockages at weep holes?	A,S			
Sediment Deposition				
Swale clean of sediments?	A			
Sediment not > 25% of swale design depth?	A			
Outlet/Overflow Spillway				
In good condition?	A			
Any evidence of erosion?	A			
Any evidence of blockages?	A			
Has facility been filled or blocked inappropriately?	A			
Hazards				
Have there been complaints from residents?	M			
Public hazards noted?	M			
Maintenance accesses free of hazards and fully operational?	M			

Inspector Comments: _____

Overall Condition of Facility: Acceptable Unacceptable

If any of the above Inspection Items are checked "Yes" for "Maintenance Needed," list Maintenance actions and their completion dates below:

Maintenance Action Needed	Due Date

The next routine inspection is scheduled for approximately: _____
 (date)

Inspected by: (signature) _____
 Inspected by: (printed) _____



Storm Sewer Inspections and Maintenance Checklist

Site Name: _____ Owner Change since last inspection? _____

Location: _____

Owner Name: _____

Address: _____ Phone Number: _____

Site Status: _____

Date: _____ Time: _____ Site conditions: _____

Indicate Features Present: Catch Basins Storm Pipe Headwalls Outfalls Catch Basin Inlets

Inspection Frequency Key: A=annual; M=monthly; S=after major storms

Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Catch Basins				
Ensure all are structurally sound and in good condition. Note any deficiencies and repair to proper working condition ensure all are set properly in place over inlets	A/S			
Check for sediment, leaf, or debris clogging grates and remove	A/S			
Catch Basin Inlets				
Ensure all are structurally sound and in good condition. Note any deficiencies and repair to proper working condition	A/S			
Inspect for blockage or sediment accumulation and remove when capacity is diminished by 20% or greater	A/S			
Pipes				
Ensure all are structurally sound and in good condition. Note any deficiencies and repair to proper working condition	A/S			
Inspect for blockage or sediment accumulation and remove when capacity is diminished by 20% or greater.	A/S			
Concrete/masonry condition of pipes and joints? (Cracks or displacement? Spalling?)	A/S			



Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Headwalls and Endwalls				
Ensure all are structurally sound and in good condition. Note any deficiencies and repair to proper working condition	A/S			
Inspect for blockage or sediment	A/S			
Check for erosion or scouring around headwall inlets and repair	A/S			
Evidence of staining?	A/S			
If flowing water is present does it appear to contain anything other than stormwater? I.e. Discoloration, odors, sheens, etc? Note location and describe.	A/S			
Hazards				
Have there been complaints from residents?	A/S			

Inspector Comments: _____

Overall Condition of Facility: Acceptable Unacceptable

If any of the above Inspection Items are checked "Yes" for "Maintenance Needed," list Maintenance actions and their completion dates below:

Maintenance Action Needed	Due Date

The next routine inspection is scheduled for approximately: _____
 (date)

Inspected by: (signature) _____
 Inspected by: (printed) _____



Permeable Pavement Inspection and Maintenance Checklist

Site Name: _____ Owner Change since last inspection? _____

Location: _____

Owner Name: _____

Address: _____ Phone Number: _____

Site Status: _____

Date: _____ Time: _____ Site conditions: _____

*****Conduct maintenance inspection in the spring of each year.

Pavement Type: Pervious Concrete/Asphalt Modular Pavers Grass/Gravel Pavers

Inspection Frequency Key: A=annual (required); M=monthly (recommended); S=after major storms (recommended)

Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Pavement Area				
Pavement area free of debris?	A/M			
Staining or sediment?	A/M			
Inlets and outlets unobstructed and sediment free?	A/M			
All contributing drainage area free of erosion and sources of sediment?	A/M			
Water standing after a storm event?	S			
Any evidence of clogged pores that require vacuum-sweeping?	A/M			
Has area been vacuum swept in the past 12 months?	A/M			
Access to pervious pavement (egress and ingress routes) safe and efficient?	A/M			
Has drawdown rate been measured at observation well and is well capped?*	A			
Structural integrity of the pavement intact? Look for deterioration such as: slumping, cracking, spalling, or broken pavers.	A/M			
Grass Pavers				
Paver area stabilized/fully vegetated?	A/M			



Inspection Items	Inspection Frequency	Inspected? (Yes/No)	Maintenance Needed? (Yes/No)	Comments/Description
Adjacent area fully stabilized (no evidence of eroding material onto/from pervious pavement area)?	A/M			
Any noticeable irrigation needs?	A/M			
Fallen leaves/plant debris collecting in paving area?	A/M			
Grass height over 4 inches?	A/M			
Vegetation health affected by oil/grease from vehicles?	A			
Other	A			
Hazards				
Obstructions or debris affecting overflows/emergency spillways?	A/M			
Load-bearing capability of pavement intact?	A/M			

*Refer to GIP-03 Section 11.3 for further guidance.

Inspector Comments: _____

Overall Condition of Facility: Acceptable Unacceptable

If any of the above Inspection Items are checked "Yes" for "Maintenance Needed," list Maintenance actions and their completion dates below:

Maintenance Action Needed	Due Date

The next routine inspection is scheduled for approximately: _____
 (date)

Inspected by: (signature) _____
Inspected by: (printed) _____



SCM Maintenance Companies Serving Franklin

The following is a list of companies that inspect and facilitate maintenance for post construction water quality Stormwater Control Measures (SCMs).

This list is for your convenience only and is not a recommendation or endorsement by the City of Franklin of the services these companies provide nor is it an exclusive list of companies that offer SCM maintenance in the City of Franklin.

Company	Contact	Phone	SCM Focus
Acer Landscape Services	Jason Stewarts	615-207-1763	All
All Source Maintenance Solutions	Marvin Francis	615-347-7287	All
Apex Companies	Stephen Polzella	484-318-9598	All
A & L Drainage Company	Alex Kisac	615-332-5111	All
Beard Property Maintenance	Dwight Beard	615-331-6289	Bioretention/Ponds
BMP/SCM Doctor	Clarke Willey	270-991-4062	All
Civil Constructors Inc.	Jim Field	615-236-9000	Ponds
ECO-Group	Nick Waters	615-228-5103	Ponds
Environmental Concepts and Services	Ron Waterbury	615-879-9159	All
Evergreen Site Solutions, LLC	Van Oldham	615-633-1353	All and Inspections
Don Green Consulting	Don Green	615-308-1014	Inspections Only
First Response	Chris Duke	615-426-7305	All
Grease Master	Craig Wood	615-394-3284	No Ponds
Hepaco	Loren Gerhardt	615-882-0033	All
Hickory Hardscapes	Joe Pierce	865-206-0691	Permeable Pavement
Jen-Hill Construction Materials	Ben Moody	615-824-1200	All
Mid-TN Erosion	Ryan Piatt	615-255-9669	All
Northstar Environmental Group	Colby Phillips	615-451-4867	All
Onsite Environmental	Doug Rashi	615-238-3901	All
Ops Contracting Services, LLC	Robert Wilkinson	615-289-4513	All
Sani-Tech	Brien Welsh	615-843-6828	No Ponds
SCA Jet Vac	Connor Welsh	615-843-6828	All
Stormwater Solutions, USA	Breck Bowlin	865-321-2847	All
Storm System Services	Jeffrey Askew	678-990-0178	All
Straightline Construction	Tony Travierso	615-330-0178	All
SWPP Management, LLC	Clyde Baumgartner	615-587-4805	All
Tennessee Concrete Association	Alan Sparkman	615-975-6696	Pervious Concrete
TPM, Inc.	Terry Breshears	615-585-0995	All
Tri-State Erosion Control	Rick Lord	615-330-2391	All
Tradebe Environmental Services, LLC		800-914-9111	All
Water Quality & Erosion Control of TN	Jean Matthews	615-292-4812	Inspections Only

PLEASE NOTE:

General safety precautions should be followed for all SCM maintenance activities. OSHA permit-required confined space protocols must be followed during the inspection and maintenance of certain stormwater quality underground detention units.

In addition to this list:

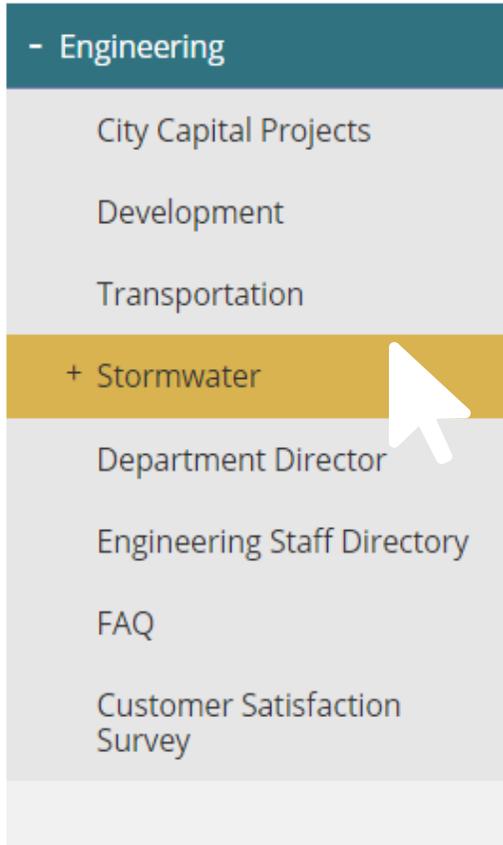
As another resource, the University of Tennessee (UT) and the Tennessee Department of Environment and Conservation (TDEC) provides a state wide training and certification program for post construction SCM inspection and maintenance. For the list of certified professionals, visit: <https://tnpermanentstormwater.org/SCMIMcertList.asp>

Appendix C: SCM Inspection Guide

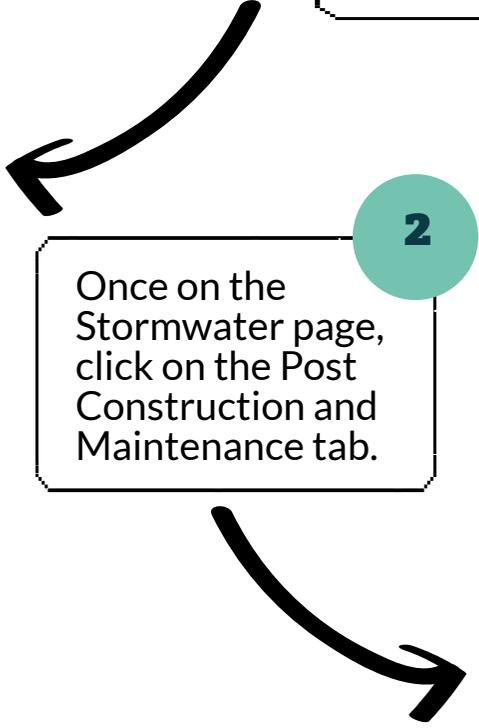
How to Submit Annual SCM Inspections



An inspection report for each SCM should be filled out. If a compiled report for the site is done, please submit via email (stormwater@franklintn.gov), mail, or by person at the City of Franklin Engineering office.



1
On the Engineering page (under Government) on the City of Franklin website, click on the Stormwater tab.



2
Once on the Stormwater page, click on the Post Construction and Maintenance tab.

Permanent Stormwater Information and Examples

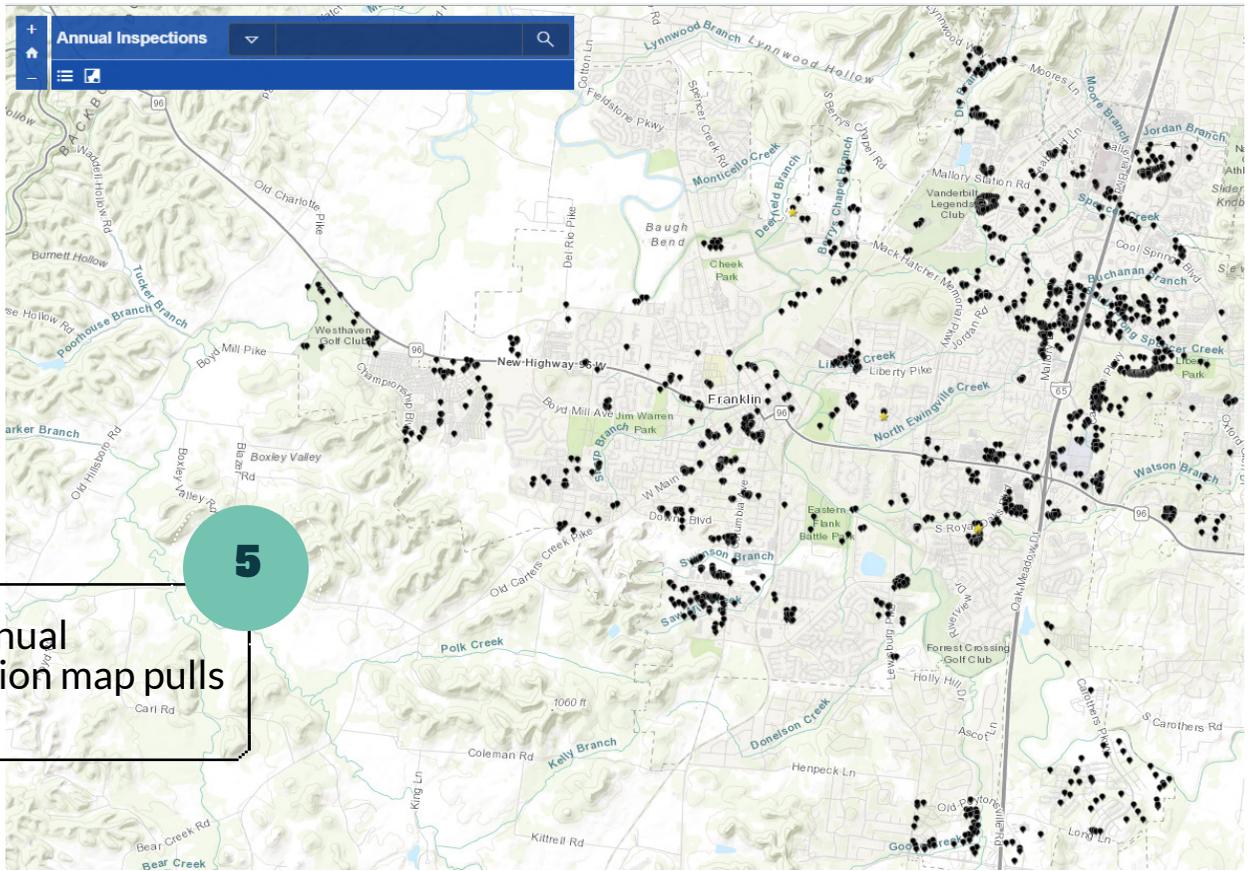
- [Annual Inspection Report Example](#)
- [BMP Inspection and Maintenance Providers](#)
- [BMP Inspection & Maintenance Checklist](#)
- [Example Long Term Maintenance Plan](#)
- [Infiltration Testing](#)
- [Long Term Maintenance Plan Form](#)
- [Post Construction & Maintenance](#)

3
Click on the annual report example for more information!

Submit Annual Inspections Here

4
To submit a completed inspection, Click on the Submit Annual Inspections button

Map Screen

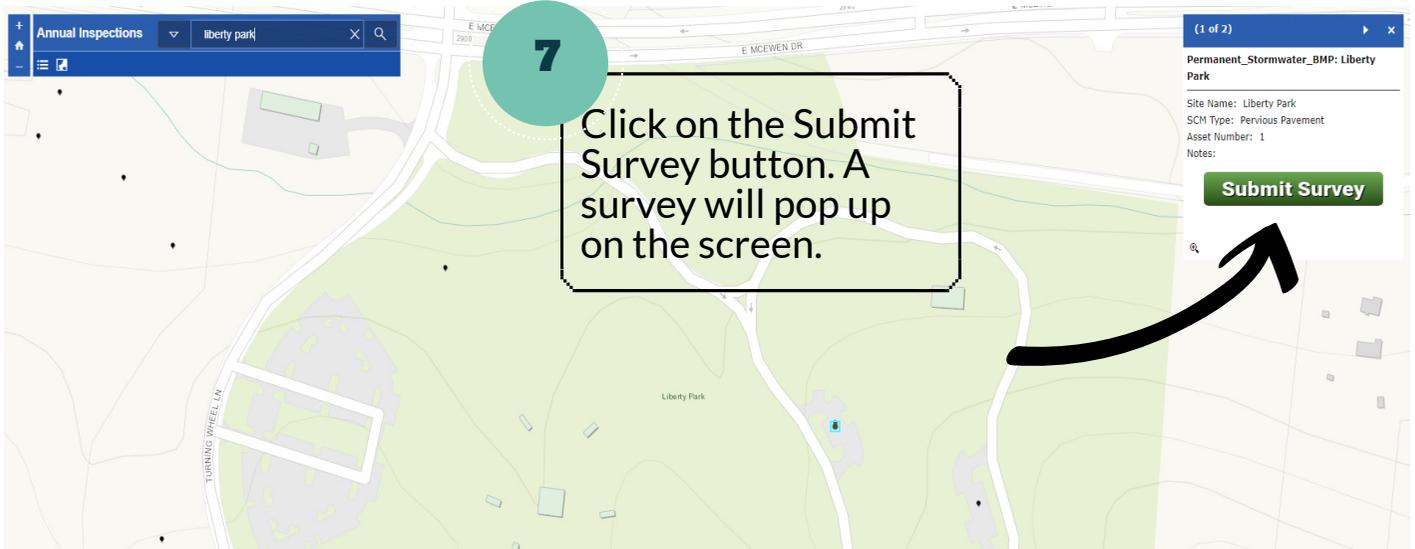


The Annual Inspection map pulls up.



Stormwater Control Measures can be found by searching the map visually, or typing in the site name

Type the site name, or subdivision name, in the search bar.



Click on the Submit Survey button. A survey will pop up on the screen.

Survey Screen

Annual Inspections

Submit Contact information, a photo of the Stormwater Control Measure, and a copy of the inspection report.

Address

Site Name

Liberty Park

Contact Information for Responsible Party

Name*

Phone Number*

Email*

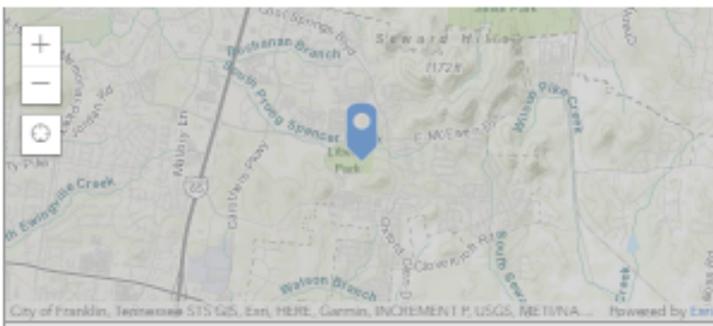
Image of SCM

Press here to choose image file. (<10MB) 

Annual Report PDF*

Press here to choose file. (<10MB, support: doc, dot, docx, pdf)

Location



City of Franklin, Tennessee 37155 US, Est. HERE, Garmin, INCREMENT P, USGS, METVNA... Powered by Esri

Lat: Lon:

Altitude (m):



Fill in the contact information for a responsible party. This can be the inspector, the landscaper, or the owner. This contact information will not be shared and is only for City use.



Upload an image of the maintained SCM, if available.



Upload the pdf of the inspection report for the SCM. This is required.

8

Once the information on the survey is filled out and the PDF uploaded, click submit.

Submit