



**Public Services**

Engineering  
212 Operations Center Drive  
Wilmington, NC 28412  
910 341-7807  
910 341-5881 fax  
wilmingtonnc.gov  
Dial 711 TTY/Voice

October 6, 2022

Phillip R. Barker &  
D. Christopher Boggs  
2005 Eastwood Road, Suite 20  
Wilmington, NC 28403

**Subject: Stormwater Management Permit No. 2021011R1  
Legacy Pointe  
High Density Development**

Dear Mr. Barker & Mr. Boggs:

The City of Wilmington Engineering Division has received a request for a revision to the Stormwater Management Permit for Legacy Pointe. Having reviewed the application and all supporting materials, the City of Wilmington has determined that the proposed revision meets the requirements of the City of Wilmington's Comprehensive Stormwater Ordinance.

The revisions include:

- The Stormwater Control Measures were revised as such:
  - Lot #1: Infiltration Basin #1 remains unchanged;
  - Lot #2: Infiltration Trench #8 added to treat runoff from Lot #2 only;
  - Lot #3: Infiltration Basin #2 resized to treat runoff from Lot #3 only;
  - Lot #4: Infiltration Basin #3 remains unchanged;
  - Lot #5 & #6: Recombined to form Lot 6R. Basin #4 reconfigured for new driveway location;
  - Lot #7R & 8R: Infiltration Basin #5 modified and reshaped to treat runoff from Lot #8R only; New Infiltration Basin #7 created to treat runoff from Lot #7R only;
  - Pervious concrete (SCM #6) remains unchanged.
  - See approved plans dated October 6, 2022.

Please be aware all terms and conditions of the permit Issued on April 30, 2021 remain in full force and effect. Any additional changes to the approved plans must be approved by this office prior to construction. The issuance of the plan revision does not preclude the permittee from complying with all other applicable statutes, rules, regulations, or ordinances which may have jurisdiction over the proposed activity and obtaining a permit or approval prior to construction.

The revised stamped, approved stormwater management drawings will be released for construction by the Wilmington Planning Division under separate cover. Please replace any old plan sheets from the approved set with the new, revised sheet. An electronic copy of the approved drawing set, permit, application, and supplementary documents will be maintained by the Wilmington Engineering Division. If you have any questions, or need additional information, please contact Richard Christensen at (910) 341-7813 or richard.christensen@wilmingtonnc.gov.



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Sincerely,

*Richard Christensen*

for Anthony Caudle, City Manager  
City of Wilmington

cc: Adam Grady, PE , Hanover Design Services, PA  
Patrick O'Mahony, Associate Planner, City of Wilmington



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**STORMWATER MANAGEMENT PERMIT APPLICATION FORM**  
 (Form SWP 2.3)

**I. GENERAL INFORMATION**

1. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):

Legacy Pointe

2. Location of Project (street address):

2509 Shandy Lane

City: Wilmington County: New Hanover Zip: 28409

**II. PERMIT INFORMATION**

1. Specify the type of project (check one):  Low Density  High Density  
 Offsite Stormwater System  Drainage Plan  Redevelopment  Other

If the project drains to an Offsite System, list the Stormwater Permit Number(s):

City of Wilmington: \_\_\_\_\_ State – NCDEQ/DEMLR: \_\_\_\_\_

2. Is the project currently covered (whole or in part) by an existing City or State (NCDEQ/DEMLR) Stormwater Permit?  Yes  No

If yes, list all applicable Stormwater Permit Numbers:

City of Wilmington: 2021011 State – NCDEQ/DEMLR: \_\_\_\_\_

3. Additional Project Permit Requirements (check all applicable):

CAMA Major  Sedimentation/Erosion Control  404/401 Permit

**III. CONTACT INFORMATION**

1. Print Applicant / Signing Official's name and title (the developer, property owner, lessee, designated government official, individual, etc. who owns the project):

Applicant / Organization: Phillip R. Barker & D. Christopher Boggs

Signing Official & Title: Phillip R. Barker

a. Contact information for Applicant / Signing Official:

Address: 2005 Eastwood Rd., Suite 20

City: Wilmington State: NC Zip: 28403

Phone: 910-231-2020 Email: pbarker@bellsouth.net

b. Please check the appropriate box. The applicant listed above is:

- The property owner/Purchaser (Skip to item 3)
- Lessee (Attach a copy of the lease agreement and complete items 2 and 2a below)
- Developer (Complete items 2 and 2a below.)

2. Print Property Owner's name and title (if different from the applicant).

Property Owner / Organization: \_\_\_\_\_

Signing Official & Title: \_\_\_\_\_

a. Contact information for Property Owner:

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

3. (Optional) Other Contact name and title (such as a construction supervisor) who would like to be copied on all correspondence:

Other Contact Person / Organization: \_\_\_\_\_

Signing Official & Title: \_\_\_\_\_

a. Contact information for person listed in item 3 above:

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

4. Agent Authorization: Complete this section if you wish to designate authority to another individual and/or firm (such as a consulting engineer and /or firm) so that they may provide information on your behalf for this project (such as addressing requests for additional information).

Consulting Engineer: Adam Grady, PE

Consulting Firm: Hanover Design Services, PA

a. Contact information for consultant listed above:

Mailing Address: 1123 Floral Parkway

City: Wilmington State: NC Zip: 28403

Phone: 910-343-8002 Email: agrady@hdsilm.com

**IV. PROJECT INFORMATION**

1. Total Property Area: 251,872 square feet
2. Total Coastal Wetlands Area: 0 square feet
3. Total Surface Water Area: 0 square feet
4. Total Property Area (1) – Total Coastal Wetlands Area (2) – Total Surface Water Area (3) = Total Project Area: 251,872 square feet.
5. Existing Impervious Surface within Project Area: 7,545 square feet
6. Existing Impervious Surface to be Removed/Demolished: 7,545 square feet
7. Existing Impervious Surface to Remain: 0 square feet
8. Total Onsite (within property boundary) Newly Constructed Impervious Surface (in square feet):

Buildings/Lots	56,000
Impervious Pavement	
Pervious Pavement (total area / adjusted area w credit applied)	3838 / 0
Impervious Sidewalks	
Pervious Sidewalks (total area / adjusted area w credit applied)	/
Other (Describe)	
Future Development	
<b>Total Onsite Newly Constructed Impervious Surface</b>	<b>56,000</b>

9. Total Onsite Impervious Surface  
(Existing Impervious Surface to remain + Onsite Newly Constructed Impervious Surface) 56,000 square feet
10. Net Change in Onsite Impervious Surface (+ for net increase, - for net decrease) 48,455 square feet
11. Project percent of impervious area: (Total Onsite Impervious Surface / Total Project Area) x100 = 22.2 %
12. Total Offsite Newly Constructed Impervious Area (in square feet):

Impervious Pavement	343
Pervious Pavement (total area / adjusted area w credit applied)	/
Impervious Sidewalks	4,079
Pervious Sidewalks (total area / adjusted area w credit applied)	/
Other (Describe)	
<b>Total Offsite Newly Constructed Impervious Surface</b>	<b>4,422</b>

13. Complete the following information for each Stormwater SCM drainage area. Low Density and Drainage Plan projects (with no permeable pavements) may omit this section and skip to Section V.

Basin Information	INFILTRATION BASIN-1 SCM # 1	INFILTRATION BASIN-2 SCM # 2	INFILTRATION BASIN-3 SCM # 3
Receiving Stream Name	Bradley Creek	Bradley Creek	Bradley Creek
Receiving Stream Index Number	18-87-24-4-(2)	18-87-24-4-(2)	18-87-24-4-(2)
Stream Classification	SC	SC	SC
Total Drainage Area (sf)	20,478	20,000	20,000
On-Site Drainage Area (sf)	20,478	20,000	20,000
Off-Site Drainage Area (sf)			
Buildings/Lots (sf)	7,000	7,000	7,000
Impervious Pavement (sf)			
Pervious Pavement (total / adjusted) (sf)	/	/	/
Impervious Sidewalks (sf)			
Pervious Sidewalks (total / adjusted) (sf)	/	/	/
Other (sf)			
Future Development (sf)			
Existing Impervious to remain (sf)	0	0	0
Offsite (sf)			
<b>Total Impervious Area (sf)</b>	7,000	7,000	7,000
<b>Percent Impervious Area (%)</b>	34	35	35

Basin Information	INFILTRATION BASIN-4 SCM # 4	INFILTRATION BASIN-5 SCM # 5	PERVIOUS CONCRETE SCM # 6
Receiving Stream Name	Bradley Creek	Bradley Creek	Bradley Creek
Receiving Stream Index Number	18-87-24-4-(2)	18-87-24-4-(2)	18-87-24-4-(2)
Stream Classification	SC	SC	SC
Total Drainage Area (sf)	40,000	37,035	3,838
On-Site Drainage Area (sf)	40,000	37,035	3,838
Off-Site Drainage Area (sf)			0
Buildings/Lots (sf)	14,000	7,000	
Impervious Pavement (sf)			
Pervious Pavement (total / adjusted) (sf)	/	/	3838 / 0
Impervious Sidewalks (sf)			
Pervious Sidewalks (total / adjusted) (sf)	/	/	/
Other (sf)			
Future Development (sf)			0
Existing Impervious to remain (sf)	0	0	0
Offsite (sf)			
<b>Total Impervious Area (sf)</b>	14,000	7,000	0
<b>Percent Impervious Area (%)</b>	35	18.9	0

13. Complete the following information for each Stormwater SCM drainage area. Low Density and Drainage Plan projects (with no permeable pavements) may omit this section and skip to Section V.

Basin Information	INFILTRATION BASIN-7 SCM # 7	INFILTRATION TRENCH SCM # 8	
Receiving Stream Name	Bradley Creek	Bradley Creek	
Receiving Stream Index Number	18-87-24-4-(2)	18-87-24-4-(2)	
Stream Classification	SC	SC	
Total Drainage Area (sf)	34,752	20,000	
On-Site Drainage Area (sf)	34,752	20,000	
Off-Site Drainage Area (sf)			
Buildings/Lots (sf)	7,000	7,000	
Impervious Pavement (sf)			
Pervious Pavement (total / adjusted) (sf)	/	/	/
Impervious Sidewalks (sf)			
Pervious Sidewalks (total / adjusted) (sf)	/	/	/
Other (sf)			
Future Development (sf)			
Existing Impervious to remain (sf)	0	0	
Offsite (sf)			
<b>Total Impervious Area (sf)</b>	7,000	7,000	
<b>Percent Impervious Area (%)</b>	20.1	35	

Basin Information			
Receiving Stream Name			
Receiving Stream Index Number			
Stream Classification			
Total Drainage Area (sf)			
On-Site Drainage Area (sf)			
Off-Site Drainage Area (sf)			
Buildings/Lots (sf)			
Impervious Pavement (sf)			
Pervious Pavement (total / adjusted) (sf)	/	/	/
Impervious Sidewalks (sf)			
Pervious Sidewalks (total / adjusted) (sf)	/	/	/
Other (sf)			
Future Development (sf)			
Existing Impervious to remain (sf)			
Offsite (sf)			
<b>Total Impervious Area (sf)</b>			
<b>Percent Impervious Area (%)</b>			

## V. SUBMITTAL REQUIREMENTS

Only complete application packages will be accepted and reviewed by the City. A complete package includes all of the items listed below. Copies of forms, deed restrictions, checklists as well as detailed instructions on how to complete this application form may be downloaded from the City of Wilmington Plan Review website below:

<https://www.wilmingtonnc.gov/departments/engineering/plan-review/stormwater-permits>

The complete application package should be submitted to the following address:

City of Wilmington – Engineering  
Plan Review Section  
212 Operations Center Dr.  
Wilmington, NC 28412

Please indicate that the following required information have been provided by initialing in the space provided for each item.

	Initials
1. One completed Stormwater Management Permit Application Form.	<u>AG</u>
2. One completed Supplement Form for each SCM proposed (signed, sealed and dated).	<u>AG</u>
3. One completed Operation & Maintenance agreement for each <u>type</u> of SCM.	<u>AG</u>
4. Proposed Deed Restrictions and Restrictive Covenants (for all subdivisions)	<u>AG</u>
5. Appropriate stormwater permit review fee.	<u>AG</u>
6. Minimum requirements identified on the Engineering Plan Review Checklist have been addressed.	<u>AG</u>
7. One set of calculations (sealed, signed and dated).	<u>AG</u>
8. A detailed narrative (one to two pages) describing the stormwater treatment/management system for the project.	<u>AG</u>
9. A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within ½ mile of the site boundary, include the ½ mile radius on the map.	<u>AG</u>
10. A copy of the soils report, if applicable. Must meet NCDEQ SCM Manual and MDC requirements for the type of SCM proposed. The report must include boring logs and a map of boring locations.	<u>AG</u>
11. One full set of plans <u>folded to 8.5" x 14"</u> .	<u>AG</u>
12. A map delineating and labeling the drainage area for each SCM proposed.	<u>AG</u>
13. A map delineating and labeling the drainage area for each inlet and conveyance proposed.	<u>AG</u>
14. A digital copy of the entire submittal package (can be submitted via flash drive, CD, email, dropbox or other file sharing system).	<u>AG</u>

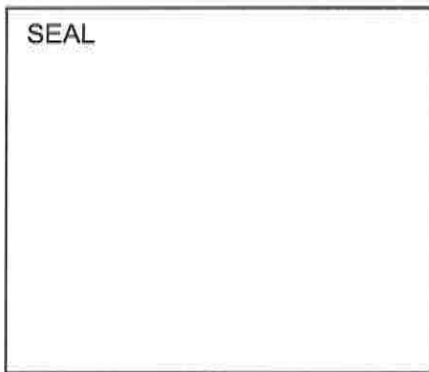


**VI. PROPERTY OWNER AUTHORIZATION** (If Section III(2) has been filled out, complete this section)

I, \_\_\_\_\_, certify that I own the property identified in this permit application, and thus give permission to \_\_\_\_\_ with \_\_\_\_\_ to develop the project as currently proposed. A copy of the lease agreement or pending property sales contract has been provided with the submittal, which indicates the party responsible for the operation and maintenance of the stormwater system.

As the legal property owner I acknowledge, understand, and agree by my signature below, that if my designated agent \_\_\_\_\_ dissolves their company and/or cancels or defaults on their lease agreement, or pending sale, responsibility for compliance with the City of Wilmington Stormwater Permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify the City of Wilmington immediately and submit a completed Name/Ownership Change Form within 30 days; otherwise I will be operating a stormwater treatment facility without a valid permit. I understand that the operation of a stormwater treatment facility without a valid permit is a violation of the City of Wilmington Municipal Code of Ordinances and may result in appropriate enforcement including the assessment of civil penalties.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



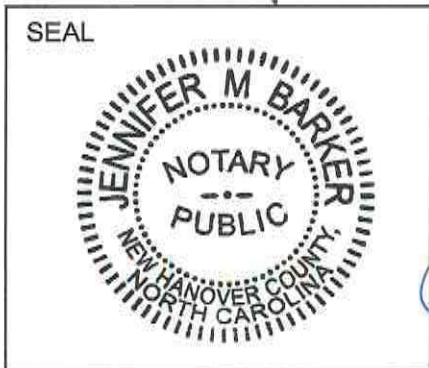
I, \_\_\_\_\_, a Notary Public for the State of \_\_\_\_\_, County of \_\_\_\_\_, do hereby certify that \_\_\_\_\_ personally appeared before me this day of \_\_\_\_\_, \_\_\_\_\_, and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal,

My commission expires: \_\_\_\_\_

**VII. APPLICANT'S CERTIFICATION**

I, Phillip Barker certify that the information included on this permit application form is, to the best of my knowledge, correct and that the project will be constructed in conformance with the approved plans, that the required deed restrictions and protective covenants will be recorded, and that the proposed project complies with the requirements of the applicable rules under the City's Comprehensive Stormwater Ordinance.

Signature: Phillip Barker Date: 9/1/22



I, Jennifer M. Barker, a Notary Public for the State of North Carolina, County of New Hanover, do hereby certify that Phillip Barker personally appeared before me this day of September 1, 2022, and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal,

Jennifer M. Barker  
My commission expires: 07-04-2027

# SUPPLEMENT-EZ COVER PAGE

FORMS LOADED

PROJECT INFORMATION		
1	Project Name	Legacy Pointe
2	Project Area (ac)	5.78
3	Coastal Wetland Area (ac)	0
4	Surface Water Area (ac)	0
5	Is this project High or Low Density?	High
6	Does this project use an off-site SCM?	No

COMPLIANCE WITH 02H .1003(4)		
7	Width of vegetated setbacks provided (feet)	na
8	Will the vegetated setback remain vegetated?	N/A
9	If BUA is proposed in the setback, does it meet NCAC 02H.1003(4)(c-d)?	N/A
10	Is streambank stabilization proposed on this project?	No

NUMBER AND TYPE OF SCMs:		
11	Infiltration System	7
12	Bioretention Cell	
13	Wet Pond	
14	Stormwater Wetland	
15	Permeable Pavement	1
16	Sand Filter	
17	Rainwater Harvesting (RWH)	
18	Green Roof	
19	Level Spreader-Filter Strip (LS-FS)	
20	Disconnected Impervious Surface (DIS)	
21	Treatment Swale	
22	Dry Pond	
23	StormFilter	
24	Silva Cell	
25	Bayfilter	
26	Filterra	

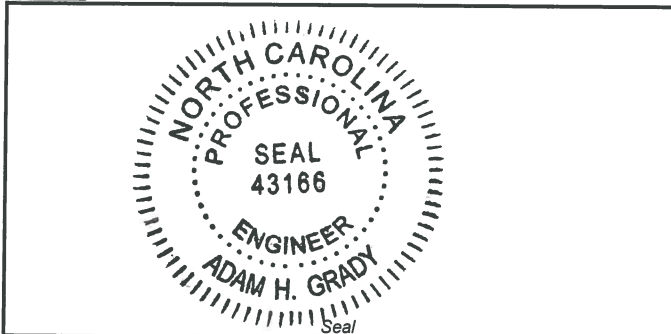
FORMS LOADED


DESIGNER CERTIFICATION		
27	Name and Title:	Adam Grady
28	Organization:	Hanover Design Services, PA
29	Street address:	1123 Floral Parkway
30	City, State, Zip:	Wilmington, NC 28403
31	Phone number(s):	910-343-8002
32	Email:	agrady@hdsilm.com

**Certification Statement:**

I certify, under penalty of law that this Supplement-EZ form and all supporting information were prepared under my direction or supervision; that the information provided in the form is, to the best of my knowledge and belief, true, accurate, and complete; and that the engineering plans, specifications, operation and maintenance agreements and other supporting information are consistent with the information provided here.

**Designer**



  
 \_\_\_\_\_  
 Signature of Designer

10/4/22  
 \_\_\_\_\_  
 Date

# DRAINAGE AREAS

1	Is this a high density project?	Yes
2	If so, number of drainage areas/SCMs	8
3	Does this project have low density areas?	No
4	If so, number of low density drainage areas	0
5	Is all/part of this project subject to previous rule versions?	No

FORMS LOADED

DRAINAGE AREA INFORMATION		Entire Site	1	2	3	4	5
4	Type of SCM		INFILTRATION BASIN 1	INFILTRATION BASIN 2	INFILTRATION BASIN 3	INFILTRATION BASIN 4	INFILTRATION BASIN 5
5	Total drainage area (sq ft)	196103	20478	20000	20000	40000	37035
6	Onsite drainage area (sq ft)	196103	20478	20000	20000	40000	37035
7	Offsite drainage area (sq ft)	17245					
8	Total BUA in project (sq ft)	56000 sf	7000 sf	7000 sf	7000 sf	14000 sf	7000 sf
	New BUA on subdivided lots (subject to permitting) (sq ft)	56000 sf	7000 sf	7000 sf	7000 sf	14000 sf	7000 sf
	New BUA not on subdivided lots (subject to permitting) (sf)						
10	Offsite BUA (sq ft)	4422 sf					
12	Breakdown of new BUA not on subdivided lots:						
	- Parking (sq ft)	sf					
	- Sidewalk (sq ft)	sf					
	- Roof (sq ft)	sf					
	- Roadway (sq ft)	sf					
	- Future (sq ft)	56000 sf	7000 sf	7000 sf	7000 sf	14000 sf	7000 sf
	- Other, please specify in the comment box below (sq ft)						
13	New infiltrating permeable pavement on subdivided lots (sq ft)	3838 sf					
14	New infiltrating permeable pavement not on subdivided lots (sq ft)						
15	Existing BUA that will remain (not subject to permitting) (sq ft)						
16	Existing BUA that is already permitted (sq ft)						
17	Existing BUA that will be removed (sq ft)	7545 sf				2544 sf	2931 sf
18	Percent BUA	22%	34%	35%	35%	35%	19%
19	Design storm (inches)	1-Year 24hr storm	1-Year 24hr storm	1-Year 24hr storm	1-Year 24hr storm	1-Year 24hr storm	1-Year 24hr storm
20	Design volume of SCM (cu ft)	13794 cf	2290 cf	2283 cf	2414 cf	4189 cf	2138 cf
		24 hr storm	24 hr storm	24 hr storm	24 hr storm	24 hr storm	24 hr storm
21	Calculation method for design volume	Pre/Post difference	Pre/Post difference	Pre/Post difference	Pre/Post difference	Pre/Post difference	Pre/Post difference

## ADDITIONAL INFORMATION

22 Please use this space to provide any additional information about the drainage area(s):

Pervious Concrete is located in an access easment.

# DRAINAGE AREAS

1	Is this a high density project?	Yes
2	If so, number of drainage areas/SCMs	8
3	Does this project have low density areas?	No
4	If so, number of low density drainage areas	0
5	Is all/part of this project subject to previous rule versions?	No

FORMS LOADED

DRAINAGE AREA INFORMATION		Entire Site	6	7	8
4	Type of SCM		Permeable Pavement	INFILTRATION BASIN	INFILTRATION TRENCH
5	Total drainage area (sq ft)	196103	3838	34752	20000
6	Onsite drainage area (sq ft)	196103	3838	34752	20000
7	Offsite drainage area (sq ft)	17245			
8	Total BUA in project (sq ft)	56000 sf		7000 sf	7000 sf
9	New BUA on subdivided lots (subject to permitting) (sq ft)	56000 sf		7000 sf	7000 sf
10	New BUA not on subdivided lots (subject to permitting) (sf)				
11	Offsite BUA (sq ft)	4422 sf			
12	Breakdown of new BUA not on subdivided lots:				
	- Parking (sq ft)	sf			
	- Sidewalk (sq ft)	sf			
	- Roof (sq ft)	sf			
	- Roadway (sq ft)	sf			
	- Future (sq ft)	56000 sf		7000 sf	7000 sf
	- Other, please specify in the comment box below (sq ft)				
13	New infiltrating permeable pavement on subdivided lots (sq ft)	3838 sf	3838 sf		
14	New infiltrating permeable pavement not on subdivided lots (sq ft)				
15	Existing BUA that will remain (not subject to permitting) (sq ft)				
16	Existing BUA that is already permitted (sq ft)				
17	Existing BUA that will be removed (sq ft)	7545 sf	2070 sf		
18	Percent BUA	22%	0%	20%	35%
19	Design storm (inches)	1-Year 24hr storm	1.5 in	1-Year 24hr storm	1-Year 24hr storm
20	Design volume of SCM (cu ft)	13794 cf	480 cf	2145 cf	2188 cf
21	Calculation method for design volume	24 hr storm Pre/Post difference	1.5"	24 hr storm Pre/Post difference	24 hr storm Pre/Post difference

## ADDITIONAL INFORMATION

22 Please use this space to provide any additional information about the drainage area(s):

Pervious Concrete is located in an access easment.

# INFILTRATION SYSTEM

1	Drainage area number	1	2	3	4	5
2	Minimum required treatment volume (cu ft)	1975 cf	1975 cf	1975 cf	3950 cf	2117 cf
<b>GENERAL MDC FROM 02H .1050</b>						
3	Is the SCM sized to treat the SW from all surfaces at build-out?	Yes	Yes	Yes	Yes	Yes
4	Is the SCM located away from contaminated soils?	Yes	Yes	Yes	Yes	Yes
5	What are the side slopes of the SCM (H:V or enter "Vertical" for trenches)?	3:1	3:1	3:1	3:1	3:1
6	Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	No	No	No	No
7	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	Yes	Yes	Yes	Yes
8	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes	Yes	Yes	Yes	Yes
9	What is the method for dewatering the SCM for maintenance?	Pump (preferred)	Pump (preferred)	Pump (preferred)	Pump (preferred)	Pump (preferred)
10	If applicable, will the SCM be cleaned out after construction?	Yes	Yes	Yes	Yes	Yes
11	Does the maintenance access comply with General MDC (8)?	Yes	Yes	Yes	Yes	Yes
12	Does the drainage easement comply with General MDC (9)?	Yes	Yes	Yes	Yes	Yes
13	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	Yes	Yes	Yes	Yes	Yes
14	Is there an O&M Agreement that complies with General MDC (11)?	Yes	Yes	Yes	Yes	Yes
15	Is there an O&M Plan that complies with General MDC (12)?	Yes	Yes	Yes	Yes	Yes
16	Does the SCM follow the device specific MDC?	Yes	Yes	Yes	Yes	Yes
17	Was the SCM designed by an NC licensed professional?	Yes	Yes	Yes	Yes	Yes
<b>INFILTRATION SYSTEM MDC FROM 02H .1051</b>						
18	Proposed slope of the subgrade surface (%)	0-1%	0-1%	0-1%	0-1%	0-1%
19	Are terraces or baffles provided?	No	No	No	No	No
20	Type of pretreatment:	Other	Other	Other	Other	Other
<b>Soils Data</b>						
21	Was the soil investigated in the footprint and at the elevation of the infiltration system?	No	Yes	No	Yes	Yes
22	SHWT elevation (fmsl)	6.63	6.63	7.16	6.09	4.86
23	Depth to SHWT per soils report (in)	30.00	30.00	62.04	24.00	54.00
24	Ground elevation at boring in soils report (fmsl)	9.13	9.13	12.33	8.09	9.36
25	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	N/A	N/A	N/A	N/A	N/A
26	Soil infiltration rate (in/hr)	8.94	16.00	5.15	5.38	6.90
27	Factor of safety (FS) (2 is recommended):	2.00	2.00	2.00	2.00	2.00
<b>Elevations</b>						
29	Bottom elevation (fmsl)	8.7 ft	9.0 ft	10.0 ft	8.1 ft	7.0 ft
30	Storage elevation (fmsl)	10.5 ft	10.5 ft	12.5 ft	9.5 ft	8.5 ft
31	Bypass elevation (fmsl)	10.5 ft	10.5 ft	12.5 ft	9.5 ft	8.5 ft
<b>For Basins Only</b>						
32	Bottom surface area (ft <sup>2</sup> )	671 ft	723 ft	238 ft	2214 ft	680 ft
33	Storage elevation surface area (ft <sup>2</sup> )	2094. ft	2460. ft	2050. ft	3808. ft	2212. ft
<b>For Trenches Only</b>						
34	Length (ft)					
35	Width (ft)					
36	Perforated pipe diameter, if applicable (inches)					
37	Number of laterals					
38	Total length of perforated piping					
39	Stone type, if applicable					
40	Stone porosity (%)					
41	Is stone free of fines?					
42	Is the stone wrapped in geotextile fabric?					
43	Has at least one inspection port been provided?					
<b>Volumes/Drawdown</b>						
44	Design volume of SCM (cu ft)	2290 cf	2283 cf	2414 cf	4189 cf	2138 cf
45	Time to draw down (hours)	9 hrs	6 hrs	24 hrs	4 hrs	6 hrs
<b>ADDITIONAL INFORMATION</b>						
46	Please use this space to provide any additional information about the infiltration system(s):					
<p>(9/9/2022)No System changes were made to basins 1 and 3. Basins' 4 shape was modified due to Lots 5 and 6 being recombined after purchase. Basin 2 now serves only Lot 3 and has been reduced in size as Lot 2 has proposed and underground system. Lots 7&amp;8 originally shared a system. They are now seperate. Systems are to be built seperately on each lot as each lot is developed. Pre treatment will include roof drain screens, vegetation, and sumps in trench system. Soil infiltration rates are reported at 1/2 the observed value in the field.</p>						

# INFILTRATION SYSTEM

1	Drainage area number	7	8
2	Minimum required treatment volume (cu ft)	2117 cf	1975 cf
<b>GENERAL MDC FROM 02H .1050</b>			
3	Is the SCM sized to treat the SW from all surfaces at build-out?	Yes	Yes
4	Is the SCM located away from contaminated soils?	Yes	Yes
5	What are the side slopes of the SCM (H:V or enter "Vertical" for trenches)?	3:1	3:1
6	Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	No
7	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	Yes
8	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes	Yes
9	What is the method for dewatering the SCM for maintenance?	Pump (preferred)	Pump (preferred)
10	If applicable, will the SCM be cleaned out after construction?	Yes	Yes
11	Does the maintenance access comply with General MDC (8)?	Yes	Yes
12	Does the drainage easement comply with General MDC (9)?	Yes	Yes
13	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	Yes	Yes
14	Is there an O&M Agreement that complies with General MDC (11)?	Yes	Yes
15	Is there an O&M Plan that complies with General MDC (12)?	Yes	Yes
16	Does the SCM follow the device specific MDC?	Yes	Yes
17	Was the SCM designed by an NC licensed professional?	Yes	Yes

## INFILTRATION SYSTEM MDC FROM 02H .1051

18	Proposed slope of the subgrade surface (%)	0-1%	0-1%
19	Are terraces or baffles provided?	No	No
20	Type of pretreatment:	Other	Other

### Soils Data

21	Was the soil investigated in the footprint and at the elevation of the infiltration system?	Yes	Yes
22	SHWT elevation (fmsl)	4.86	5.33
23	Depth to SHWT per soils report (in)	54.00	24.00
24	Ground elevation at boring in soils report (fmsl)	9.36	
25	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	N/A	N/A
26	Soil infiltration rate (in/hr)	6.90	11.50
27	Factor of safety (FS) (2 is recommended):	2.00	2.00

### Elevations

29	Bottom elevation (fmsl)	8 ft	7.4 ft
30	Storage elevation (fmsl)	9.5 ft	9.5 ft
31	Bypass elevation (fmsl)	10 ft	9.5 ft

### For Basins Only

32	Bottom surface area (ft <sup>2</sup> )	698 ft	1829 ft
33	Storage elevation surface area (ft <sup>2</sup> )	2189. ft	1829. ft

### For Trenches Only

34	Length (ft)		163 ft
35	Width (ft)		12 ft
36	Perforated pipe diameter, if applicable (inches)		34 x 16
37	Number of laterals		3
38	Total length of perforated piping		158 ft
39	Stone type, if applicable		57
40	Stone porosity (%)		40%
41	Is stone free of fines?		Yes
42	Is the stone wrapped in geotextile fabric?		Yes
43	Has at least one inspection port been provided?		Yes

### Volumes/Drawdown

44	Design volume of SCM (cu ft)	2145 cf	2122 cf
45	Time to draw down (hours)	5 hrs	3 hrs

### ADDITIONAL INFORMATION

46	Please use this space to provide any additional information about the infiltration system(s): (9/9/2022)No System changes were made to basins 1 and 3. Basins' 4 shape was modified due to Lots 5 and 6 being recombined after purchase. Basin 2 now serves only Lot 3 and has been reduced in size as Lot 2 has proposed and underground system. Lots 7&8 originally shared a system. They are now separate. Systems are to be built separately on each lot as each lot is developed. Pre treatment will include roof drain screens, vegetation, and sumps in trench system. Soil infiltration rates are reported at 1/2 the observed value in the field.		
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# PERMEABLE PAVEMENT

1	Drainage area number	6
2	Minimum required treatment volume (cu ft)	480 cf
3	Area of permeable pavement to be installed (square feet)	3838 sf
4	Area of screened roof runoff that is directed to pavement (square feet)	sf
5	Area of additional built-upon area runoff that is directed to pavement (square feet)	sf
6	Area of incidental, unavoidable runoff from adjacent stable pervious areas (square feet)	sf

## GENERAL MDC FROM 02H .1050

7	Is the SCM sized to treat the SW from all surfaces at build-out?	No
8	Is the SCM located away from contaminated soils?	Yes
9	What are the side slopes of the SCM (H:V)?	N/A
10	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	No
11	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes
12	What is the method for dewatering the SCM for maintenance?	Other
13	If applicable, will the SCM be cleaned out after construction?	Yes
14	Does the maintenance access comply with General MDC (8)?	Yes
15	Does the drainage easement comply with General MDC (9)?	N/A
16	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	Yes
17	Is there an O&M Agreement that complies with General MDC (11)?	No
18	Is there an O&M Plan that complies with General MDC (12)?	No
19	Does the SCM follow the device specific MDC?	Yes
20	Was the SCM designed by an NC licensed professional?	Yes

## PERMEABLE PAVEMENT MDC FROM 02H .1055

21	Is this a detention or infiltration permeable pavement system?	Infiltration
22	Design volume of SCM (cu ft)	Infiltration
23	Proposed slope of the subgrade surface (%)	
24	Are terraces or baffles provided?	No
25	SHWT elevation (fmsl)	5.82
26	Storage elevation of the design rainfall depth (fmsl)	
27	Will toxic pollutants be stored or handled on or near the permeable pavement?	No
28	Does the proposed pavement surface comply with .1055(6)?	Yes
29	Will runoff from pervious surfaces be directed away from the pavement?	Yes
30	Maximum adjacent area directed to a single point onto the permeable pavement (sq ft)	sf
31	Has at least one observation well per terrace been provided at the low point(s)?	Yes
32	Have edge restraints been provided?	No
33	Will the subgrade be graded when dry?	Yes
34	Will the permeable pavement be protected from sediment during construction?	Yes
35	Will an in-situ permeability test be conducted after site stabilization?	Yes

## For Infiltrating Pavement Systems

36	Was the soil investigated in the footprint and at the elevation of the subgrade?	Yes
37	Soil infiltration rate (in/hr)	7.25 in/hr
38	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	No
39	Is additional media being added to the soil profile?	No
40	Proposed slope of the subgrade surface (%)	<2%
41	Top of the subgrade (bottom of the aggregate) (fmsl)	10.6 TO 14
42	Drawdown time (hours)	1 hrs

## For Detention Pavement Systems

43	Drawdown time (hours)	
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## Aggregate

44	Aggregate depth (in)	6 in
45	Aggregate porosity (%)	30
46	Size of aggregate to be used in the subbase	3/4"
47	Will the aggregate be washed?	Yes

## ADDITIONAL INFORMATION

48	Please use this space to provide any additional information about the permeable pavement system(s):
36.	To test were taken in the direct vicinity of the system and both had similar attributes. 37. 7.25 in/hr is shown here which is half the lowest rate found.

## Infiltration Basin Operation and Maintenance Agreement

I will keep a maintenance record on this SCM. This maintenance record will be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired or replaced **immediately**. These deficiencies can affect the integrity of structures, safety of the public, and the pollutant removal efficiency of the SCM.

Important maintenance procedures:

- The drainage area will be carefully managed to reduce the sediment load to the infiltration basin.
- Immediately after the infiltration basin is established, the vegetation will be watered twice weekly if needed until the plants become established (commonly six weeks).
- No portion of the infiltration basin will be fertilized after the initial fertilization that is required to establish the vegetation.
- The vegetation in and around the basin will be maintained at a height of approximately six inches.

After the infiltration basin is established, it will be inspected **once a quarter and within 24 hours after every storm event greater than 1.5 inches**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How to remediate the problem:
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The perimeter of the infiltration basin	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary, to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
The inlet device: pipe or swale	The pipe is clogged (if applicable).	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or otherwise damaged (if applicable).	Replace the pipe.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary, to smooth it over and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.



<b>SCM element:</b>	<b>Potential problem:</b>	<b>How to remediate the problem:</b>
<b>The forebay</b>	Sediment has accumulated and reduced the depth to 75% of the original design depth.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM. Replace any media that was removed in the process. Revegetate disturbed areas immediately.
	Erosion has occurred or riprap is displaced.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticides are used, wipe them on the plants rather than spraying.
<b>The main treatment area</b>	A visible layer of sediment has accumulated.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM. Replace any media that was removed in the process. Revegetate disturbed areas immediately.
	Water is standing more than 5 days after a storm event.	Replace the top few inches of filter media and see if this corrects the standing water problem. If so, revegetate immediately. If not, consult an appropriate professional for a more extensive repair.
	Weeds and noxious plants are growing in the main treatment area.	Remove the plants by hand or by wiping them with pesticide (do not spray).
<b>The embankment</b>	Shrubs or trees have started to grow on the embankment.	Remove shrubs or trees immediately.
	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make all needed repairs.
<b>The outlet device</b>	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.
	The outlet device is damaged	Repair or replace the outlet device.
<b>The receiving water</b>	Erosion or other signs of damage have occurred at the outlet.	Contact the local NC Department of Environment and Natural Resources Regional Office.

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 1

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

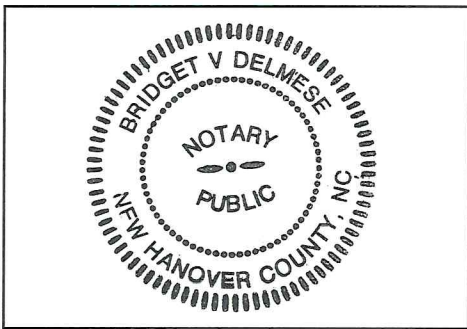
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 12/30/20

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Budget V. Delmese, a Notary Public for the State of NC, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this 30<sup>th</sup> Dec, 2020, and acknowledge the due execution of the forgoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires 4-12-21

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 2

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

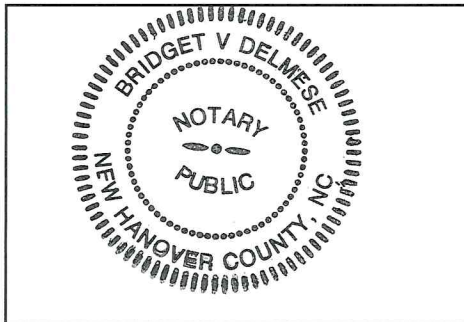
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 12/30/20

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Bridget V. Delmese, a Notary Public for the State of NC, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this \_\_\_\_\_ day of 30<sup>th</sup> Dec, 2020, and acknowledge the due execution of the foregoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires 4-12-21

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 3

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

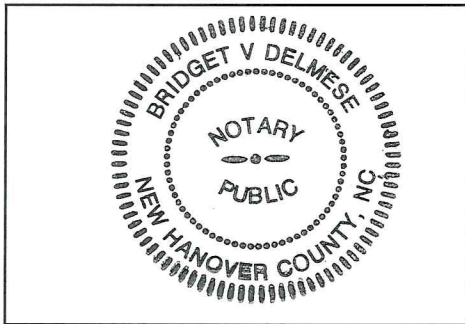
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 12/30/20

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Bridget V. Delmese, a Notary Public for the State of NC, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this \_\_\_\_\_ day of 30th Dec, 2020 and acknowledge the due execution of the foregoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires 4-12-21

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 4

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

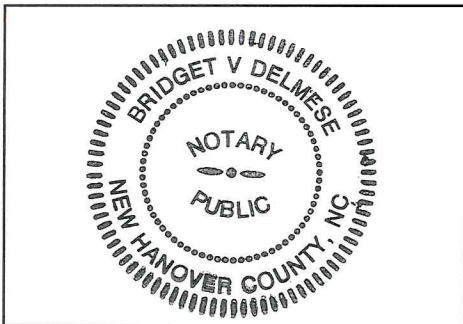
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 12/30/20

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Bridget V Delmese, a Notary Public for the State of NC, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this 30<sup>th</sup> Dec, 2020, and acknowledge the due execution of the foregoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires 4-12-21

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 5

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

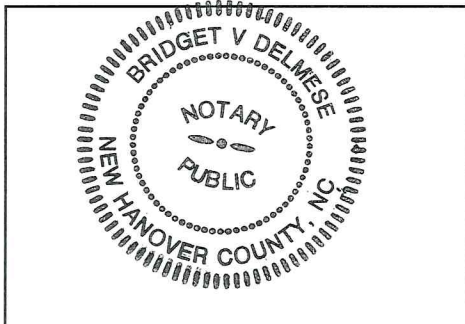
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 12/30/20

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Bridget V. Delmese, a Notary Public for the State of NC, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this \_\_\_\_\_ day of 30<sup>th</sup> Dec., 2020, and acknowledge the due execution of the foregoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires 4-12-21

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: LEGACY POINTE

SCM drainage basin number: 7 (LOT 712)

Print name: Phillip R. Barker

Title: Developer

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

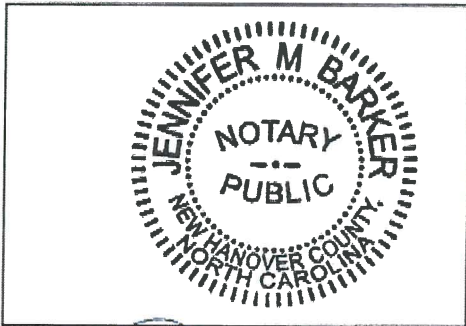
Phone: 910-231-2020

Signature: Phillip R. Barker

Date: 9/1/22

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Jennifer M. Barker, a Notary Public for the State of North Carolina County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this 1 day of September, 2022, and acknowledge the due execution of the forgoing infiltration trench maintenance requirements. Witness my hand and official seal,



SEAL

Jennifer M. Barker  
My commission expires 07-04-2027

## Permeable Pavement Operation and Maintenance Agreement

I will keep a maintenance record on this SCM. This maintenance record will be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired or replaced **immediately**. These deficiencies can affect the integrity of structures, safety of the public, and the pollutant removal efficiency of the SCM(s).

Important maintenance procedures:

At all times, the permeable pavement shall be kept free of:

- Debris and particulate matter through frequent blowing that removes such debris, particularly during the fall and spring.
- Piles of soil, sand, mulch, building materials or other materials that could deposit particulates on the permeable pavement.
- Piles of snow and ice.
- Chemicals of all kinds, including deicers.

The permeable pavement will be inspected **once a quarter**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How to remediate the problem:
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The perimeter of the permeable pavement	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary, to remove the gully, then plant ground cover and water until established.
	A vegetated area drains toward the pavement.	Regrade the area so that it drains away from the pavement, then plant ground cover and water until established.
The inlet device	The pipe is clogged.	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or otherwise damaged.	Replace the pipe.
	Erosion is occurring in the swale.	Regrade the swale if necessary, to smooth it over and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.
	Stone verge is clogged or covered in sediment (if applicable).	Remove sediment and replace with clean stone.



<b>SCM element:</b>	<b>Potential problem:</b>	<b>How to remediate the problem:</b>
<b>The surface of the permeable pavement</b>	Trash/debris present.	Remove the trash/debris.
	Weeds.	Do not pull the weeds (may pull out media as well). Spray them with a systemic herbicide such as glyphosate and then return within the week to remove them by hand. (Another option is to pour boiling water on them or steam them.)
	Sediment.	Vacuum sweep the pavement.
	Rutting, cracking or slumping or damaged structure.	Consult an appropriate professional.
<b>Observation well</b>	Water present more than five days after a storm event.	Clean out clogged underdrain pipes. Consult an appropriate professional for clogged soil subgrade.
<b>Educational sign</b>	Missing or is damaged.	Replace the sign.
<b>The outlet device</b>	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.
	The outlet device is damaged.	Repair or replace the outlet device.
<b>The receiving water</b>	Erosion or other signs of damage have occurred at the outlet.	Contact the NC Department of Environment and Natural Resources Regional Office.

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Legacy Pointe

SCM drainage basin number: 6

Print name: Phillip R. Barker

Title: Owner

Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403

Phone: 910-231-2020

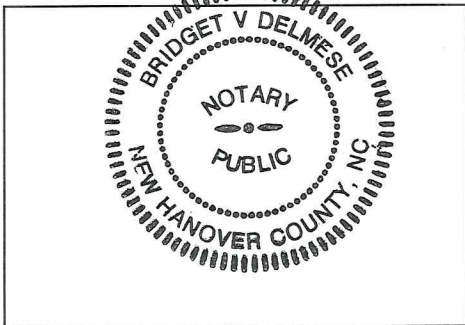
Signature: Phillip R. Barker

Date: 2/19/21

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Bridget V. Delmese, a Notary Public for the State of North Carolina, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this \_\_\_\_\_ day of February 19, 2021, and acknowledge the due execution of the forgoing filter strip, riparian buffer, and/or level spreader maintenance requirements.

Witness my hand and official seal,



SEAL

My commission expires 4-12-21

## Infiltration Trench Operation and Maintenance Agreement

I will keep a maintenance record on this SCM. This maintenance record will be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired or replaced **immediately**. These deficiencies can affect the integrity of structures, safety of the public, and the pollutant removal efficiency of the SCM.

Important maintenance procedures:

- The drainage area of the infiltration trench will be carefully managed to reduce the sediment load to the sand filter.
- The water level in the monitoring wells will be recorded once a month and after every storm event greater than 1.5 inches.

The infiltration trench will be inspected **once a quarter and within 24 hours after every storm event greater than 1.5 inches**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element	Potential problem	How to remediate the problem
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The grass filter strip or other pretreatment area	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary, to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Sediment has accumulated to a depth of greater than six inches.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
The flow diversion structure (if applicable)	The structure is clogged.	Unclog the conveyance and dispose of any sediment off-site.
	The structure is damaged.	Make any necessary repairs or replace if damage is too large for repair.

SCM element	Potential problem	How to remediate the problem
The trench	Water is ponding on the surface for more than 24 hours after a storm.	Remove the accumulated sediment from the infiltration system and dispose in a location that will not impact a stream or the SCM.
	Grass or other plants are growing on the surface of the trench.	Do not pull the weeds (may pull out media as well). Wipe them with a systemic herbicide such as glyphosate and then return within the week to remove them by hand. (Another option is to pour boiling water on them or steam them.)
The observation well(s)	Water present more than three days after a storm event.	Clean out any clogged underdrain pipes. Consult an appropriate professional for clogged soil subgrade.
The emergency overflow berm	Erosion or other signs of damage have occurred at the outlet.	Repair or replace the berm.
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dissipation structure.

Permit Number: \_\_\_\_\_  
(to be provided by City of Wilmington)

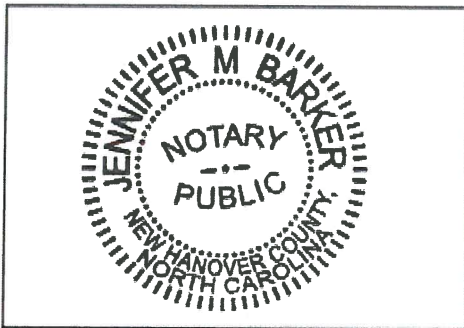
I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: LEGACY POINTE  
SCM drainage basin number: 8 (LOT 2)

Print name: Phillip R. Barker  
Title: Developer  
Address: 2005 Eastwood Rd Suite 201; Wilmington, NC 28403  
Phone: 910-231-2020  
Signature: Phillip R. Barker mgr. Legacy Pointe  
Date: 9/1/22

Note: The legally responsible party should not be a homeowners' association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

I, Jennifer M. Barker, a Notary Public for the State of North Carolina, County of New Hanover, do hereby certify that Phillip R. Barker personally appeared before me this 1 day of September, 2022, and acknowledge the due execution of the forgoing infiltration basin maintenance requirements. Witness my hand and official seal,



SEAL  
Jennifer M. Barker  
My commission expires 07-04-2027