

COMPREHENSIVE STORMWATER MANAGEMENT PERMIT

HIGH DENSITY DEVELOPMENT

SECTION 1 – APPROVAL

Having reviewed the application and all supporting materials, the City of Wilmington has determined that the application is complete and the proposed development meets the requirements of the City of Wilmington's Comprehensive Stormwater Ordinance.

PERMIT HOLDER: **Laurinburg KFC Take Home, Inc.**
PROJECT: **KFC Market Street**
ADDRESS: **5120 Market Street**
PERMIT #: **2019046**
DATE: **July 26, 2019**

Therefore, the above referenced site is hereby approved and subject to all conditions set forth in Section 2 of this approval and all applicable provisions of the City of Wilmington Comprehensive Stormwater Management Ordinance.

This permit shall be effective from the date of issuance until July 26, 2029 and shall be subject to the following specified conditions and limitations:

Section 2 - CONDITIONS

1. This approval is valid only for the stormwater management system as proposed on the approved stormwater management plans dated July 25, 2019.
2. The project will be limited to the amount and type of built-upon area indicated in Section IV of the Stormwater Management Application Form submitted as part of the approved stormwater permit application package, and per the approved plans.
3. This permit shall become void unless the facilities are constructed in accordance with the approved stormwater management plans, specifications and supporting documentation, including information provided in the application and supplements.
4. The runoff from all built-upon area within any permitted drainage area must be directed into the permitted stormwater control system for that drainage area.
5. The permittee shall submit a revised stormwater management application packet to the City of Wilmington and shall have received approval prior to construction, for any modification to the approved plans, including, but not limited to, those listed below:
 - a. Any revision to any item shown on the approved plans, including the stormwater management measures, built-upon area, details, etc.
 - b. Redesign or addition to the approved amount of built-upon area or to the drainage area.
 - c. Further subdivision, acquisition, lease or sale of any part of the project area.
 - d. Filling in, altering, or piping of any vegetative conveyance shown on the approved plan.
 - e. Construction of any permitted future areas shown on the approved plans.



Public Services

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

6. A copy of the approved plans and specifications shall be maintained on file by the Permittee.
7. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
8. If the stormwater system was used as an Erosion Control device, it must be restored to design condition prior to operation as a stormwater treatment device, and prior to issuance of any certificate of occupancy for the project.
9. All areas must be maintained in a permanently stabilized condition. If vegetated, permanent seeding requirements must follow the guidelines established in the North Carolina Erosion and Sediment Control Planning and Design Manual unless an alternative is specified and approved by the City of Wilmington.
10. All applicable operation & maintenance agreements and easements pertaining to each stormwater treatment system shall be referenced on the final plat and recorded with the Register of Deeds upon final plat approval. If no plat is recorded for the site the operation and maintenance agreements and easements shall be recorded with the Register of Deeds so as to appear in the chain of title of all subsequent purchasers under generally accepted searching standards.
11. The stormwater management system shall be constructed in its entirety, vegetated and operational for its intended use prior to the construction of any built-upon surface unless prior approval is obtained. City Staff must be notified of any deviation prior to construction of the built-upon surface. Any deviation request shall include justification and must propose an alternative timeline or construction sequence. Notification shall not constitute approval. Any alternative timeline approved by City staff shall become an enforceable component of this permit.
12. The permittee shall at all times provide the operation and maintenance necessary to assure the permitted stormwater system functions at optimum efficiency. The approved Operation and Maintenance Agreement must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:
 - a. Scheduled inspections (interval noted on the agreement).
 - b. Sediment removal.
 - c. Mowing and revegetation of slopes and the vegetated areas.
 - d. Maintenance of landscape plants, including those within the landscape buffer and on the vegetated shelf.
 - e. Immediate repair of eroded areas, especially slopes.
 - f. Debris removal and unclogging of outlet structure, orifice device, flow spreader, catch basins and/or piping.
 - g. Access to the outlet structure must be available at all times.
13. Records of inspection, maintenance and repair for the permitted stormwater system must be kept by the permittee for at least 5 years from the date of record and made available upon request to authorized personnel of the City of Wilmington. The records will indicate the date, activity, name of person performing the work and what actions were taken.



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14. Upon completion of construction, before a Certificate of Occupancy shall be granted, and prior to operation or intended use of this permitted facility, the applicant shall submit to the City of Wilmington as-built plans for all stormwater management facilities. The plans shall show the final design specifications and the field location, type, depth, invert and planted vegetation of all measures, controls and devices, as installed. A certification shall be submitted, along with all supporting documentation that specifies, under seal that the as-built stormwater measures, controls and devices are in compliance with the approved stormwater management plans. A final inspection by City of Wilmington personnel will be required prior to issuance of a certificate of occupancy or operation of the permitted facility.
15. This permit is not transferable except after application and approval by the City of Wilmington. In the event of a change of ownership, name change or change of address the permittee must submit a completed Name/Ownership Change form to the City of Wilmington at least 30 days prior to the change. It shall be signed by all applicable parties and be accompanied by all required supporting documentation. Submittal of a complete application shall not be construed as an approved application. The application will be reviewed on its own merits by the City of Wilmington and may or may not be approved. The project must be in compliance with the terms of this permit in order for the transfer request to be considered. The permittee is responsible for compliance with all permit conditions until such time as the City of Wilmington approves the transfer request. Neither the sale of the project nor the conveyance of common area to a third party should be considered as an approved transfer of the permit.
16. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the City of Wilmington, in accordance with Sections 18-52 and 18-53 and any other applicable section of the Land Development Code.
17. The City of Wilmington may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the City of Wilmington for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the City of Wilmington that the changes have been made.
18. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances, which may be imposed by other government agencies (local, state, and federal) having jurisdiction.
19. In the event that the facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by the City of Wilmington, such as the construction of additional or replacement stormwater management systems.
20. The permittee grants City of Wilmington Staff permission to enter the property during normal business hours for the purpose of inspecting all components of the permitted stormwater management facility.

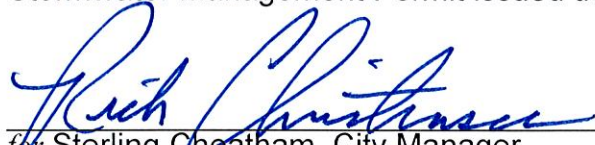


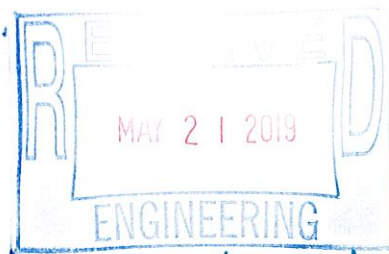
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21. The permit issued shall continue in force and effect until revoked or terminated by the City of Wilmington. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and re-issuance or termination does not stay any permit condition.
22. The approved stormwater management plans and all documentation submitted as part of the approved stormwater management permit application package for this project are incorporated by reference and are enforceable parts of the permit.
23. The permittee shall submit a renewal request with all required forms and documentation at least 180 days prior to the expiration date of this permit.
24. If any one or more of the conditions of this permit is found to be unenforceable or otherwise invalidated, all remaining conditions shall remain in full effect.

Stormwater Management Permit issued this the 26th day of July, 2019


for Sterling Cheatham, City Manager
City of Wilmington



*unless noted
otherwise



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STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.2)

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.):

KFC Market Street

2. Location of Project (street address):

5120 Market Street

City: Wilmington

County: New Hanover

Zip: 28403

3. Directions to project (from nearest major intersection):

The project is located on the southeast corner of the intersection of Market Street (US Hwy 17)
and New Centre Drive.

II. PERMIT INFORMATION

1. Specify the type of project (check one): Low Density ☒ High Density
Drains to an Offsite Stormwater System ☐ Drainage Plan ☐ Other ☐
If the project drains to an Offsite System, list the Stormwater Permit Number(s):

City of Wilmington: _____ State – NCDENR/DWQ: _____

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

If yes, list all applicable Stormwater Permit Numbers:

City of Wilmington: _____ State – NCDENR/DWQ: _____

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

CAMA Major ☐

☒ Sedimentation/Erosion Control

NPDES Industrial Stormwater ☐

404/401 Permit: Proposed Impacts: _____

If any of these permits have already been acquired please provide the Project Name, Project/Permit Number, issue date and the type of each permit:

III. CONTACT INFORMATION

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

Applicant / Organization: Laurinburg KFC Take Home, Inc.

Signing Official & Title: Thomas A. Broome, President

- a. Contact information for Applicant / Signing Official:

Street Address: 452 Atkinson Street

City: Laurinburg State: NC Zip: 28352

Phone: 910-276-6740 Fax: 910-265-7588 Email: tab@scotfd.com

Mailing Address (if different than physical address): _____

City: _____ State: _____ Zip: _____

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

☒ The property owner (Skip to item 3)

Lessee* (Attach a copy of the lease agreement and complete items 2 and 2a below)

Purchaser* (Attach a copy of the pending sales agreement and complete items 2 and 2a below)

Developer* (Complete items 2 and 2a below.)

2. Print Property Owner's name and title below, if you are the lessee, purchaser, or developer. (This is the person who owns the property that the project is on.)

Property Owner / Organization: _____

Signing Official & Title: _____

- a. Contact information for Property Owner:

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Mailing Address (if different than physical address): _____

City: _____ State: _____ Zip: _____

3. (Optional) Print the name and title of another contact such as the project's construction supervisor or another person who can answer questions about the project:

Other Contact Person / Organization: _____

Signing Official & Title: _____

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

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Mailing Address (if different than physical address): _____

City: _____ State: _____ Zip: _____

IV. PROJECT INFORMATION

1. In the space provided below, briefly summarize how the stormwater runoff will be treated.

The site is currently developed as a commercial bank with parking. Existing storm drains collect

runoff and discharge to an existing collection system in Market Street. This project proposes to

utilize drainage infrastructure as much as possible while providing pervious pavement for any built upon areas that exceed the existing built upon area.

2. Total Property Area: **44,404** square feet

3. Total Coastal Wetlands Area: _____ square feet

4. Total Surface Water Area: _____ square feet

5. Total Property Area (2) – Total Coastal Wetlands Area (3) – Total Surface Water Area (4) = Total Project Area: **44,404** square feet.

6. Existing Impervious Surface within Property Area: **21,819** square feet

7. Existing Impervious Surface to be Removed/Demolished: **21,819** square feet

8. Existing Impervious Surface to Remain: **0** square feet

9. Total Onsite (within property boundary) Newly Constructed Impervious Surface (*in square feet*):

Buildings/Lots	3,648
Impervious Pavement	16,594
Pervious Pavement (adj. total, with 0 % credit applied)	4,115
Impervious Sidewalks	1,951
Pervious Sidewalks (adj. total, with _____ % credit applied)	0
Other (describe) Trash Enclosure Pad	280
Future Development	676
Total Onsite Newly Constructed Impervious Surface	27,264

10. Total Onsite Impervious Surface

(Existing Impervious Surface to remain + Onsite Newly Constructed Impervious Surface) = **27,264** square feet

11. Project percent of impervious area: (Total Onsite Impervious Surface / Total Project Area) x100 = **61.4** %

12. Total Offsite Newly Constructed Impervious Area (improvements made outside of property boundary, in square feet):

Impervious Pavement	588
Pervious Pavement (adj. total, with % credit applied)	
Impervious Sidewalks	1,491
Pervious Sidewalks (adj. total, with % credit applied)	
Other (describe)	
Total Offsite Newly Constructed Impervious Surface	2,079

13. Total Newly Constructed Impervious Surface

(Total Onsite + Offsite Newly Constructed Impervious Surface) = 29,343 square feet

14. Complete the following information for each Stormwater BMP drainage area. If there are more than three drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below. Low Density projects may omit this section and skip to Section V.

Basin Information	BMP #	BMP # 1	BMP # 2
Receiving Stream Name		Spring Branch	Spring Branch
Receiving Stream Index Number		18-74-63-1	18-74-63-1
Stream Classification		C; Sw	C; Sw
Total Drainage Area (sf)		3,006	2,439
On-Site Drainage Area (sf)		3,006	2,439
Off-Site Drainage Area (sf)		0	0
Total Impervious Area (sf)		3,006	2,439
Buildings/Lots (sf)		0	0
Impervious Pavement (sf)		1,330	0
Pervious Pavement (sf)		1,676	2,439
Impervious Sidewalks (sf)		0	0
Pervious Sidewalks (sf)		0	0
Other (sf)		0	0
Future Development (sf)		0	0
Existing Impervious to remain (sf)		0	0
Offsite (sf)		0	0
Percent Impervious Area (%)		100	100

15. How was the off-site impervious area listed above determined? Provide documentation:

N/A

V. SUBMITTAL REQUIREMENTS

1. Supplemental and Operation & Maintenance Forms - One applicable City of Wilmington Stormwater BMP supplement form and checklist must be submitted for **each** BMP specified for this project. One applicable proposed operation and maintenance (O&M) form must be submitted for **each type** of stormwater BMP. Once approved, the operation and maintenance forms must be referenced on the final plat and recorded with the register of deeds office.
2. Deed Restrictions and Restrictive Covenants - For all subdivisions, outparcels, and future development, the appropriate property restrictions and protective covenants are required to be recorded prior to the sale of any lot. Due to variability in lot sizes or the proposed BUA allocations, a table listing each lot number, lot size, and the allowable built-upon area must be provided as an attachment to the completed and notarized deed restriction form. The appropriate deed restrictions and protective covenants forms can be downloaded at the link listed in section V (3). Download the latest versions for each submittal.

In instances where the applicant is different than the property owner, it is the responsibility of the property owner to sign the deed restrictions and protective covenants form while the applicant is responsible for ensuring that the deed restrictions are recorded.

By the notarized signature(s) below, the permit holder(s) certify that the recorded property restrictions and protective covenants for this project, if required, shall include all the items required in the permit and listed on the forms available on the website, that the covenants will be binding on all parties and persons claiming under them, that they will run with the land, that the required covenants cannot be changed or deleted without concurrence from the City of Wilmington, and that they will be recorded prior to the sale of any lot.

3. Only complete application packages will be accepted and reviewed by the City. A complete package includes all of the items listed on the City Engineering Plan Review Checklist, including the fee. Copies of the Engineering Plan Review Checklist, all Forms, Deed Restrictions as well as detailed instructions on how to complete this application form may be downloaded from:

<http://www.wilmingtonnc.gov/PublicServices/Engineering/PlanReview/StormwaterPermits.aspx>

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

VI. CONSULTANT INFORMATION AND AUTHORIZATION

1. Applicant: 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: Jeremy Blair, PE

Consulting Firm: Paramounte Engineering, Inc

a. Contact information for consultant listed above:

Mailing Address: 122 Cinema Drive

City: Wilmington State: NC Zip: 28403

Phone: 910.791.6707 Fax: 910.791.6760 Email: jblair@paramounte-eng.com

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

I, *(print or type name of person listed in Contact Information, item 2)* _____, certify that I own the property identified in this permit application, and thus give permission to *(print or type name of person listed in Contact Information, item 1)* _____ with *(print or type name of organization listed in Contact Information, item 1)* _____ 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 *(entity listed in Contact Information, item 1)* 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.

SEAL

Signature: _____

_____ Date: _____

I, _____, a Notary Public for the
State of _____, County of _____, do

hereby certify that _____

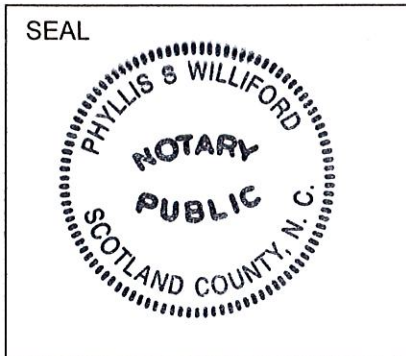
personally appeared before me this day of _____, _____.

and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal,

My commission expires: _____

VIII. APPLICANT'S CERTIFICATION

I, (print or type name of person listed in Contact Information, item 1), Thomas A. Broome, President 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 stormwater rules under.



Signature: Thomas A. Broome
Date: 5/14/19

I, Phyllis S. Williford, a Notary Public for the State of North Carolina, County of Scotland, do hereby certify that Thomas A. Broome personally appeared before me this day of May 14, 2019, and acknowledge the due execution of the application for a stormwater

permit. Witness my hand and official seal,

Phyllis S. Williford
My commission expires: August 28, 2021

SUPPLEMENT-EZ COVER PAGE

FORMS LOADED

PROJECT INFORMATION

1	Project Name	KFC Market Street
2	Project Area (ac)	1.02
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)	N/A
8	Will the vegetated setback remain vegetated?	
9	Is BUA other than as listed in .1003(4)(c-d) out of the setback?	
10	Is streambank stabilization proposed on this project?	

NUMBER AND TYPE OF SCMs:

11	Infiltration System	0
12	Bioretention Cell	0
13	Wet Pond	0
14	Stormwater Wetland	0
15	Permeable Pavement	2
16	Sand Filter	0
17	Rainwater Harvesting (RWH)	0
18	Green Roof	0
19	Level Spreader-Filter Strip (LS-FS)	0
20	Disconnected Impervious Surface (DIS)	0
21	Treatment Swale	0
22	Dry Pond	0
23	StormFilter	0
24	Silva Cell	0
25	Bayfilter	0
26	Filterra	0

FORMS LOADED

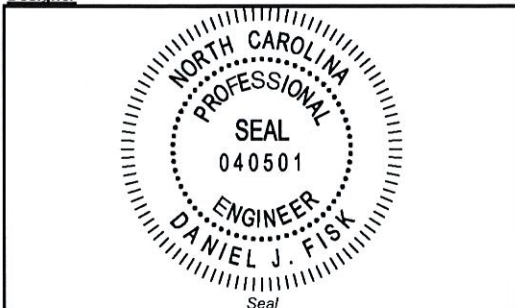
DESIGNER CERTIFICATION

27	Name and Title:	Daniel J. Fisk, PE
28	Organization:	Paramounte Engineering Inc.
29	Street address:	122 Cinema Drive
30	City, State, Zip:	Wilmington, NC 28403
31	Phone number(s):	910.791.6707
32	Email:	dfisk@paramounte-eng.com

Certification Statement:

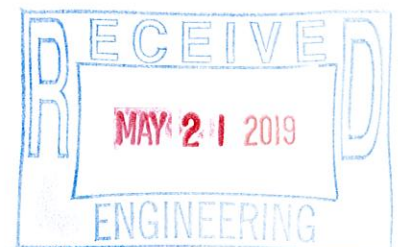
I certify, under penalty of law that this Supplement-EZ form and all supporting information were prepared under my direction or supervision; that the information provided in the form is, to the best of my knowledge and belief, true, accurate, and complete; and that the engineering plans, specifications,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

Designer



DJ Fisk
Signature of Designer

05.20.19
Date



DRAINAGE AREAS

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

[FORMS LOADED](#)

DRAINAGE AREA INFORMATION		Entire Site	1	2
4	Type of SCM		Perm Pavement	Perm Pavement
5	Total BUA in project (sq ft)	27264 sf	3006 sf	2439 sf
6	New BUA on subdivided lots (subject to permitting) (sq ft)			
7	New BUA outside of subdivided lots (subject to permitting) (sf)			
8	Offsite - total area (sq ft)			
9	Offsite BUA (sq ft)			
10	Breakdown of new BUA outside subdivided lots:			
	- Parking (sq ft)	20709 sf	3006 sf	2439 sf
	- Sidewalk (sq ft)	1951 sf		
	- Roof (sq ft)	3648 sf		
	- Roadway (sq ft)			
	- Future (sq ft)	676 sf		
	- Other, please specify in the comment box below (sq ft)	280 sf		
11	New infiltrating permeable pavement on subdivided lots (sq ft)			
12	New infiltrating permeable pavement outside of subdivided lots (sq ft)			
13	Existing BUA that will remain (not subject to permitting) (sq ft)			
14	Existing BUA that is already permitted (sq ft)			
15	Existing BUA that will be removed (sq ft)	21819 sf		
16	Percent BUA		100%	100%
17	Design storm (inches)		1.5	1.5
18	Design volume of SCM (cu ft)		359 cf	290 cf
19	Calculation method for design volume		Simple	Simple

ADDITIONAL INFORMATION

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

PERMEABLE PAVEMENT

1	Drainage area number	1	2
2	Design volume of SCM (cu ft)	359 cf	290 cf
3	Area of permeable pavement to be installed (square feet)	1676 sf	2439 sf
4	Area of screened roof runoff that is directed to pavement (square feet)	sf	sf
5	Area of additional built-upon area runoff that is directed to pavement (square feet)	1330 sf	sf
6	Area of incidental, unavoidable runoff from adjacent stable pervious areas (square feet)	sf	sf
GENERAL MDC FROM 02H.1050			
7	Is the SCM sized to treat the SW from all surfaces at build-out?	Yes	Yes
8	Is the SCM located away from contaminated soils?	Yes	Yes
9	What are the side slopes of the SCM (H:V)?	:1 N/A	:1 N/A
10	Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	No
11	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	Yes
12	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes	Yes
13	What is the method for dewatering the SCM for maintenance?	Drawdown Orifice	Drawdown Orifice
14	If applicable, will the SCM be cleaned out after construction?	Yes	Yes
15	Does the maintenance access comply with General MDC (8)?	Yes	Yes
16	Does the drainage easement comply with General MDC (9)?	Yes	Yes
17	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?		
18	Is there an O&M Agreement that complies with General MDC (11)?	Yes	Yes
19	Is there an O&M Plan that complies with General MDC (12)?	Yes	Yes
20	Does the SCM follow the device specific MDC?	Yes	Yes
21	Was the SCM designed by an NC licensed professional?	Yes	Yes
PERMEABLE PAVEMENT MDC FROM 02H.1055			
22	Is this a detention or infiltration permeable pavement system?	Detention	Detention
23	Proposed slope of the subgrade surface (%)	0%	0%
24	Are terraces or baffles provided?	No	No
25	SHWT elevation (fmsl)	38.00	38.00
26	Storage elevation of the design rainfall depth (fmsl)	40.36	40.32
27	Will toxic pollutants be stored or handled on or near the permeable pavement?	No	No
28	Does the proposed pavement surface comply with .1055(6)?	Yes	Yes
29	Will runoff from pervious surfaces be directed away from the pavement?	Yes	Yes
30	Maximum adjacent area directed to a single point onto the permeable pavement (sq ft)		
31	Is at least one observation well per terrace been provided at the low point(s)?	Yes	Yes
32	Have edge restraints been provided?	Yes	Yes
33	Will the subgrade be graded when dry?	Yes	Yes
34	Will the permeable pavement be protected from sediment during construction?	Yes	Yes
35	Will an in-situ permeability test be conducted after site stabilization?	No	No
For Infiltrating Pavement Systems			
36	Was the soil investigated in the footprint and at the elevation of the subgrade?		
37	Soil infiltration rate (in/hr)		
38	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?		
39	Is additional media being added to the soil profile?		
40	Proposed slope of the subgrade surface (%)		
41	Top of the subgrade (bottom of the aggregate) (fmsl)		
42	Dewatering time (hours)		
For Detention Pavement Systems			
43	Drawdown time (hours)	81 hrs	105 hrs
Aggregate			
44	Aggregate depth (in)	9 Full 12 Total	9 Full 12 Total
45	Aggregate porosity (n)	40%	40%
46	Size of aggregate to be used in the subbase	No. 57	No. 57
47	Will the aggregate be washed?	Yes	Yes
ADDITIONAL INFORMATION			
48	Please use this space to provide any additional information about the permeable pavement system(s):		

Permeable Pavement Operation and Maintenance Agreement

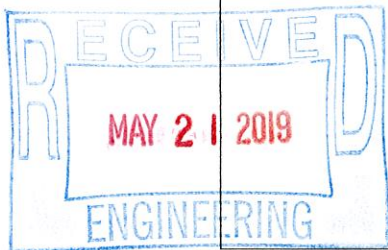
I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public,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

Important operation and maintenance procedures:

- Stable groundcover will be maintained in the drainage area to reduce the sediment load to the permeable pavement.
- The area around the perimeter of the permeable pavement will be stabilized and mowed, with clippings removed.
- Any weeds that grow in the permeable pavement will be sprayed with pesticide immediately. Weeds will not be pulled, since this could damage the fill media.
- Once a year, the permeable pavement surface will be vacuum swept.
- At no time shall wet sweeping (moistening followed by sweeping) be allowed as a means of maintenance.
- There shall be no repair or treatment of Permeable Pavement surfaces with other types of pavement surfaces. All repairs to Permeable Pavement surfaces must be accomplished utilizing permeable pavement which meets the original pavement specifications.
- Concentrated runoff from roof drains, piping, swales or other point sources, directly onto the permeable pavement surface shall not be allowed. These areas must be diverted away from the permeable pavement.

Initial Inspection: Permeable Pavements shall be inspected monthly for the first three months for the following:

BMP element:	Potential problem:	How to remediate the problem:
The perimeter of the permeable pavement	Areas of bare soil and/or erosive gullies have formed.	In the event that rutting or failure of the groundcover occurs, the eroded area shall be repaired immediately and permanent groundcover re-established. Appropriate temporary Erosion Control measures (such as silt fence) shall be installed in the affected area during the establishment of permanent groundcover, and any impacted area of permeable pavement is to be cleaned via vacuum sweeping.
The surface of the permeable pavement	Rutting / uneven settlement	This indicates inadequate compaction of the pavement base / sub-base. If rutting or uneven settlement on the order of ½ inch or greater occurs, permeable pavement shall be removed and base / sub-base re-compacted, smoothed, and permeable pavement shall then be re-installed. Base and sub-base compaction shall be monitored by a licensed geotechnical engineer to ensure that infiltration capacity of base and sub-base are not compromised by compaction and smoothing processes.
	The pavement does not dewater between storms, or water is running off.	Vacuum sweep the pavement. If the pavement still does not dewater, consult a professional.



Permit Number: _____
(to be provided by City of Wilmington)
Drainage Area / Lot Number: _____

The permeable pavement 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.

BMP element:	Potential problem:	How to remediate the problem:
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, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Vegetation is too short or too long.	Maintain vegetation at a height of 3 to 6 inches (remove clippings).
The surface of the permeable pavement	Trash/debris is present.	Remove the trash/debris.
	Weeds are growing on the surface of the permeable pavement.	Do not pull the weeds (may pull out media as well). Spray them with pesticide.
	Sediment is present on the surface.	Vacuum sweep the pavement.
	The structure is deteriorating or damaged.	Consult an appropriate professional. Damaged areas of the pavement shall be removed and repaired.
	The pavement does not dewater between storms.	Vacuum sweep the pavement. If the pavement still does not dewater, consult a professional. Permanently clogged pavement shall be removed and repaired.

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: KFC Market Street

BMP drainage area or lot number: 1

Print name: Thomas A. Broome

Title: President

Address: 452 Atkinson Street, Laurinburg, NC 28352

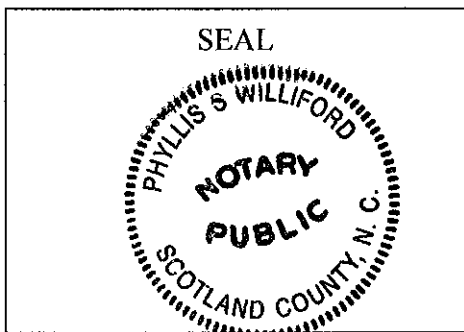
Phone: 910-276-6740

Signature: Thomas A. Broome

Date: 3/29/19

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, Phyllis S. Williford, a Notary Public for the State of North Carolina, County of Scotland, do hereby certify that Thomas A. Broome personally appeared before me this 29th day of March, 2019, and acknowledge the due execution of the forgoing permeable pavement maintenance requirements. Witness my hand and official seal,



My commission expires August 28, 2021