



Public Services

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

COMPREHENSIVE STORMWATER MANAGEMENT PERMIT

DRAINAGE PLAN

SECTION 1 – APPROVAL

Having reviewed the construction drawings, application and all supporting materials, the City of Wilmington has determined that the proposed development meets the requirements for Drainage Plan Approval through the City of Wilmington's Comprehensive Stormwater Ordinance.

PERMIT HOLDER: Robert High

PROJECT: Robert High Offices

ADDRESS: 320 & 324 Greenville Avenue

PERMIT #: 2018034

DATE: **August 15, 2018**

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This permit shall be effective from the date of issuance until modified or rescinded and shall be subject to the following specified conditions and limitations:

Section 2 - CONDITIONS

- This approval is valid only for the stormwater management system as proposed on the approved stormwater management plans dated August 15, 2018.
- 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.
- 4. 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.
 - Redesign or addition to the approved amount of built-upon area.
 - c. Further subdivision, acquisition, lease or sale of any part of the project area.
 - d. Filling in, altering, or piping of any vegetative or piped conveyance shown on the approved plan.
 - e. Construction of any permitted future areas shown on the approved plans.
- 5. A copy of the approved plans and specifications shall be maintained on file by the Permittee.





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- 6. During construction, erosion shall be kept to a minimum and any eroded areas of the system will be repaired immediately.
- 7. 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.
- 8. All applicable operation & maintenance agreements pertaining to all pervious pavement systems 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 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.
- 9. The permittee shall at all times provide the operation and maintenance necessary to assure the pervious pavement system functions at optimum efficiency. The approved Operation and Maintenance Plan must be followed in its entirety and maintenance must occur at the scheduled intervals including, but not limited to:
 - a. Scheduled inspections
 - b. Sediment removal/vacuum sweep surface
 - c. Immediate repair of eroded areas adjacent to pervious pavement
- 10. Each component of the stormwater management system should be inspected once a quarter and within 24 hours after every storm event greater than 1.5 inches.
- 11. Records of inspection, maintenance and repair for the permitted pervious pavement 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.
- 12. Upon completion of construction, before a Certificate of Occupancy shall be granted, and prior to operation 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 field location, type, depth and invert of all 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.
- 13. 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.





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- 14. 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 of the Land Development Code.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. 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.
- 19. 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.
- 20. 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.
- 21. 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 15th day of August, 2018

for Sterling Cheatham, City Manager

City of Wilmington



Number, issue date and the type of each permit:

I. GENERAL INFORMATION



Public Services
Engineering
414 Chestnut St, Suite 200
Wilmington, NC 28401
910 341-7807
910 341-5881 fax
wilmingtonnc.gov
Dial 711 TTY/Voice

STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.2)

1. Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.): Robert High Offices 2. Location of Project (street address): 320 & 324 Greenville Ave. County: New Hanover Zip: 28403 City: Wilmington 3. Directions to project (from nearest major intersection): Project is located on Greenville Ave. Approx. 300' East of the Intersection with Wrightsville Ave. on the North side of the road. 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 XNo 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



III. CONTACT INFORMATION

1.	Print Applicant / Signing Official's name and title designated government official, individual, etc. w		
	Applicant / Organization: RHJR PROPERTI	ES, LLC	
	Signing Official & Title: Robert High		
	a. Contact information for Applicant / Signir	ng Official:	
	Street Address: 223 Greenville Ave		
	City: Wilmington	State: N	IC Zip: 28403
	Phone: 910-790-9490 Fax:		
	Mailing Address (if different than physical ad	dress):	
	City:	State:	Zip:
	b. Please check the appropriate box. The a	pplicant liste	ed above is:
	 ☑ The property owner (Skip to item 3) ☑ Lessee* (Attach a copy of the lease agreement ☑ Purchaser* (Attach a copy of the pending sales ☑ Developer* (Complete items 2 and 2a below.) 		
2.	Print Property Owner's name and title below, if y the person who owns the property that the proje		essee, purchaser, or developer. (This is
	Property Owner / Organization: N/A		
	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 co or another person who can answer questions at		
	Other Contact Person / Organization: N/A		
	Signing Official & Title:		



City:		_State:	Zip:	
Phone:	Fax:	_Email:		
Mailing Address	(if different than physical addre	ess):		
. PROJECT INFORM			-	
In the space provide	ed below, briefly summarize hov	v the stormwa	ater runoff will	be treated.
Runoff will be route	ed to Greenville Ave. Right of W	ay which is ti	ed into C.O.W	. stormwater syst
	. 40 160			
Total Property Area	. 49,700 square feet			
	•	feet		
Total Coastal Wetla	nds Area: 0 square			
Total Coastal Wetla Total Surface Wate Total Property Area	•	et	al Surface Wat	er Area (4) = Tota
Total Surface Wate Total Property Area Project Area: 49,160	nds Area: 0 square Area: 0 square fee (2) – Total Coastal Wetlands A	et rea (3) – Tota		er Area (4) = Tota
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12. Total Offsite Newly Constructed Impervious Area (improvements made outside of property boundary, *in square feet*):

Impervious Pavement			0
Pervious Pavement	(adj. total, with	% credit applied)	0
Impervious Sidewalks	S		430
Pervious Sidewalks	(adj. total, with	% credit applied)	0
Other (describe)	Concrete Driv	veway Apron	396
Total Offsite Newly	Constructed Impe	rvious Surface	826

13. Total Newly Constructed Impervious Surface		×
(Total Onsite + Offsite Newly Constructed Impervious Surface) = 10	0718	_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#1	BMP#2	BMP#3
Receiving Stream Name		BRADLEY CREEK	BRADLEY CREEK	BRADLEY CREEK
Receiving Stream Index No	umber	18-87-24-4-(2)	18-87-24-4-(2)	18-87-24-4-(2)
Stream Classification		SC;HQW	SC;HQW	SC;HQW
Total Drainage Area (sf)		12576	2291	1858
On-Site Drainage Area	(sf)	12576	2291	1858
Off-Site Drainage Area	(sf)	0	0	0
Total Impervious Area (s	f)	6792	425	0
Buildings/Lots (sf)		2656	0	0
Impervious Pavement (sf)	3850	0	0
Pervious Pavement,	% credit (sf)	0	0	0
Impervious Sidewalks (sf)	286	425	0
Pervious Sidewalks,	% credit (sf)	0	0	0
Other (sf)	is .	0	0	0
Future Development (sf	7)	0	0	0
Existing Impervious to r	emain (sf)	0	0	0
Offsite (sf)		0	0	0
Percent Impervious Area (%)	54.0	18.6	0

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





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

Impervious Pavement			0
Pervious Pavement	(adj. total, with	% credit applied)	0
Impervious Sidewalks	3		430
Pervious Sidewalks	(adj. total, with	% credit applied)	0
Other (describe)	Concrete Driv	veway Apron	396
Total Offsite Newly	Constructed Impe	rvious Surface	826

13. Total Newly Constructed Impervious Surface	
(Total Onsite + Offsite Newly Constructed Impervious Surface) = 10718	square fee

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 # 4	BMP#	BMP#
Receiving Stream Name		BRADLEY CREEK		
Receiving Stream Index Nu	mber	18-87-24-4-(2)		
Stream Classification		SC;HQW		
Total Drainage Area (sf)		1196	0	0
On-Site Drainage Area (sf)	1196		
Off-Site Drainage Area (sf)	0	0	0
Total Impervious Area (sf		183	0	0
Buildings/Lots (sf)		0	0	0
Impervious Pavement (s	f)	0	0	0
Pervious Pavement,	% credit (sf)	0	0	0
Impervious Sidewalks (s	f)	183		0
Pervious Sidewalks,	% credit (sf)	0	0	0
Other (sf)		0	0	0
Future Development (sf)		0	0	0
Existing Impervious to re	emain (sf)	0	0	0
Offsite (sf)		0	0	0
Percent Impervious Area (%	6)	15.3	0	0

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



V. SUBMITTAL REQUIREMENTS

- 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.	(such as a consulting enginee		thority to another individual and/or y provide information on your beh mation).	
	Consulting Engineer: Charles	D. Cazier, P.E.		
	Consulting Firm: Intracoastal E	ingineering, PLLC		
	a. Contact information fo	r cancultant listed shave:		
	a. Contact information fo			
	Mailing Address: 5725 Ole	ander Dr. Unit E-/		
	City: Wilmington	State: <u>N</u>	NC Zip: 28403	
	Phone: <u>910-859-8983</u>	Fax:Email:	charlie@intracoastalengineering.com	l
VII	. PROPERTY OWNER AU	THORIZATION (If Section III(2) ha	as been filled out, complete this section)	
ow persiliste prothe sto As des def Will res Ch val	In the property identified in this son listed in Contact Information, item of in Contact Information, item 1) oposed. A copy of the lease age submittal, which indicates the armwater system. The legal property owner I ack signated agent (entity listed in Contact Information Stormwater Permit responsibility to notify the City of ange Form within 30 days; othid permit. I understand that the	reement or pending property so party responsible for the operation and agreement of pending property so party responsible for the operation and agreement (and agreement of pending sale, responsibility verts back to me, the property Wilmington immediately and so peration of a stormwater treation of a stormwater treation of the property of the property operation of a stormwater treating a stormw	ive permission to (print or type name with (print or type name of organiza to develop the project as currestales contract has been provided wation and maintenance of the project as currestales contract has been provided wation and maintenance of the pree by my signature below, that if lives their company and/or cancels by for compliance with the City of owner. As the property owner, it is ubmit a completed Name/Owners ormwater treatment facility without atment facility without a valid permiss and may result in appropriate	of tion ently vith my or or s my nip a
Sig	nature:		Date:	
5	EAL		, a Notary Public for	
			, County of, do)
			this day of,	
			ution of the application for a stormwat	
		permit. Witness my hand and o	• •	CI
		My commission expires:		



VIII. APPLICANT'S CERTIFICATION

		Contact Information, item 1) . Robert High	certify
th re	at the project will be constructe	this permit application form is, to the best of my knowledge, and in conformance with the approved plans, that the required ants will be recorded, and that the proposed project complies communities and the proposed project complies to the proposed project complies to the proposed project complient the proposed project the proposed project the proposed project the proposed project the	deed
Si	gnature:	Date: 3.20.18	<u></u>
	SEAL	I, Carolyn S White, a Notary Public State of North Carling, County of Pender hereby certify that Popert M High	c for the _, do
	CAROLYN S WHITE Notary Public, North Carolina Pender County My Commission Expires October 03, 2022	personally appeared before me this day of North 20 and acknowledge the due execution of the application for a stori permit. Witness my hand and official seal, My commission expires: 10 - 03. 22	, 20\% , mwater

SUPPLEMENT-EZ FORM COVER PAGE



Please indicate the types, quantities and locations of SCMs that will be used on this project:

	Quantity	Location(s)
Infiltration System		
Bioretention Cell		
Wet Pond		
Stormwater Wetland		
Permeable Pavement	4	
Sand Filter		
Rainwater Harvesting		
Green Roof		
Level Spreader-Filter Strip		
Disconnected Impervious Surface		
Treatment Swale		
- Dry Pond		

Pro	iect	N	am	٥.
	COL		alli	c.

Robert High Offices 2

Address

320 Greenville Ave.

City / Town

Wilmington

Designer information for this project:

Name and Title:	Charles Cazier Professional Engineer	
Organization:	Intracoastal Engineering PLLC.	
Street address:	5725 Oleander Dr. Unit E-7	
City, State, Zip:	Wilmington, NC 28403	
Phone number(s):	910-859-8983	
Email:	Charlie@intracoastalengineering.com	

Applicant:

Company: Robert High Properties
Contact: Robert High

Mailing Address: 223 Greenville Ave.
City, State, Zip: Wilmington, NC 28403

Phone number(s): 910-790-9490

Email: rhp@roberthighproperties.com

Designer



Signature of Designer

8 6 18 Date

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.

I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations as well as a report being made to my professional board.



	актульного интегналистической политической		AT THE RESIDENCE AND A SECURIOR SECURIO
Drainage area number	1	Break down of BUA in the drainage area (both new and existing):	
Total coastal wetlands area (sq ft)		- Parking / driveway (sq ft)	3850 sf
Total surface water area (sq ft)		- Sidewalk (sq ft)	286 sf
Total drainage area (sq ft)	12576 sf	- Roof (sq ft)	2656 sf
BUA associated with existing development (sq ft)		- Roadway (sq ft)	
Proposed new BUA (sq ft)	6792 sf	- Other, please specify in the comment box below (sq ft)	
Percent BUA of drainage area	54%	Total BUA (sq ft)	6792 sf
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM			65 GO 316 F/6 F/6
Stormwater program(s) that apply (please specify):		Design rainfall depth (in)	1.5 in
astal Stormwater rules		Minimum volume required (cu ft)	
		Design volume of SCM (cu ft)	
GENERAL MDC FROM 02H .1050			
#1 Is the SCM sized to treat the SW from all surfaces at build-out?	No	#7 If applicable, with the SCM be cleaned out after construction?	180000000000000000000000000000000000000
#2 Is the SCM located on or near contaminated soils?	No	#8 Does the mainetenance access comply with General MDC (8)?	
#3 What are the side slopes of the SCM (H:V)?		#9 Does the drainage easement comply with General MDC (9)?	
#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	
#4 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
#5 Is there a a bypass for flows in excess of the design flow?		#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
#5 is there a a pypass for nows in excess or the design now:			
#6 What is the method for dewatering the SCM for maintenance?		#13 Was the SCM designed by an NC licensed professional?	Yes
		#13 Was the SCM designed by an NC licensed professional?	Yes
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055	No	#13 Was the SCM designed by an NC licensed professional? #6 How will the pavement surface be tested?	Yes
#6 What is the method for dewatering the SCM for maintenance?	No		Yes
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No		
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No		
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No	#6 How will the pavement surface be tested?	3820 si
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No 75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet)	3820 si 2656 si
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl)		#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet)	3820 s 2656 s
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl)	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet)	3820 st 2656 st 4136 st
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #3 Storage elevation of the design rainfall depth (fmsl)	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement?	3820 st 2656 st 4136 st
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #3 Storage elevation of the design rainfall depth (fmsl) #4 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	75.5 ft 77 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours)	3820 si 2656 si 4136 si Yes
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #2 Storage elevation of the design rainfall depth (fmsl) #2 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? #3 Will toxic pollutants be stored or handled on or near the permeable pavement?	75.5 ft 77 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile?	3820 si 2656 si 4136 si Yes
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile:	75.5 ft 77 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)?	3820 s 2656 s 4136 s Yes No
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #2 Storage elevation of the design rainfall depth (fmsl) #2 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? #3 Will toxic pollutants be stored or handled on or near the permeable pavement? #4 Proposed slope of the subgrade surface (%) #4 Are terraces or baffles provided?	75.5 ft 77 ft Yes	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system?	3820 s 2656 s 4136 s Yes No
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #2 Storage elevation of the design rainfall depth (fmsl) #2 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? #3 Will toxic pollutants be stored or handled on or near the permeable pavement? #4 Proposed slope of the subgrade surface (%) #4 Are terraces or baffles provided? #5 Size of aggregate to be used in the subbase	75.5 ft 77 ft Yes	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #10 If so, what is the drawdown time for the design storm?	3820 s 2656 s 4136 s Yes No
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #3 Storage elevation of the design rainfall depth (fmsl) #4 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? #4 Will toxic pollutants be stored or handled on or near the permeable pavement? #4 Proposed slope of the subgrade surface (%) #4 Are terraces or baffles provided? #5 Size of aggregate to be used in the subbase #5 Aggregate depth (in)	75.5 ft 77 ft Yes No #57	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #10 If so, what is the drawdown time for the design storm? #11 Have edge restraints been provided?	3820 s 2656 s 4136 s Yes No Yes
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile: #2 SHWT elevation (fmsl) #2 Top of the subgrade (fmsl) #2 Storage elevation of the design rainfall depth (fmsl) #2 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? #3 Will toxic pollutants be stored or handled on or near the permeable pavement? #4 Proposed slope of the subgrade surface (%) #4 Are terraces or baffles provided?	75.5 ft 77 ft Yes No #57 6 in	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #11 Have edge restraints been provided? #12 Will the subgrade be graded when dry?	3820 s 2656 s 4136 s Yes No Yes No



PERMEABLE PAVEMENT

	2	Break down of BUA in the drainage area (both new and existing):	
Drainage area number		- Parking / driveway (sq ft)	
Total coastal wellands area (sq ft)		- Sidewalk (sq ft)	425 sf
Fotal surface water area (sq ft)	2291 sf	- Roof (sq ft)	
Fotal drainage area (sq ft)	2231 31	- Roadway (sq ft)	
BUA associated with existing development (sq ft)	425 sf	- Other, please specify in the comment box below (sq ft)	
Proposed new BUA (sq ft) Percent BUA of drainage area	19%	Total BUA (sq ft)	425 sf
	1070	TOTAL DON'T (Ad 1)	
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM	CONTRACTOR SECURITIES CONTRACTOR	Design rainfall depth (in)	1.5 in
Stormwater program(s) that apply (please specify):		Minimum volume required (cu ft)	1.0 111
		Design volume of SCM (cu ft)	
		Design volume of Scivi (cu ii)	
GENERAL MDC FROM 02H .1050	ayanna banasan arang arang banasan a		
#1 Is the SCM sized to treat the SW from all surfaces at build-out?	No	#7 If applicable, with the SCM be cleaned out after construction?	
‡2 Is the SCM located on or near contaminated soils?	No	#8 Does the mainetenance access comply with General MDC (8)?	100000000
3 What are the side slopes of the SCM (H:V)?		#9 Does the drainage easement comply with General MDC (9)?	THE ENGINEE
#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	SEA MESTO
44 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
#5 Is there a a bypass for flows in excess of the design flow?		#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
15 there a a bypass for hours in excess of the assign here.			
		#13 Was the SCM designed by an NC licensed professional?	accumulation and an inches and a
#6 What is the method for dewatering the SCM for maintenance?		#13 Was the SCM designed by an NC licensed professional?	163
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055	No	#13 Was the SCM designed by an NC licensed professional? #6 How will the pavement surface be tested?	TOO
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No		TCS
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile:	No	#6 How will the pavement surface be tested?	
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet)	
#6 What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?		#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet)	1377 s
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 11 Was the soil investigated in the footprint and at the elevation of the infiltration system? 12 Briefly describe the hydraulic properties and characteristics of the soil profile:	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet)	1377 s
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 It Was the soil investigated in the footprint and at the elevation of the infiltration system? It Briefly describe the hydraulic properties and characteristics of the soil profile:		#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement?	1377 s
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl)	75.5 ft 78 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours)	1377 s 425 si Yes
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile?	1377 s 425 si Yes
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	75.5 ft 78 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)?	1377 s 425 st Yes No Yes
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? Will toxic pollutants be stored or handled on or near the permeable pavement?	75.5 ft 78 ft Yes	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system?	1377 s 425 si Yes
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 What was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl)	75.5 ft 78 ft Yes	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #10 If so, what is the drawdown time for the design storm?	1377 s 425 st Yes No Yes No
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? Will toxic pollutants be stored or handled on or near the permeable pavement? Proposed slope of the subgrade surface (%)	75.5 ft 78 ft Yes No #57	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #11 Have edge restraints been provided?	1377 s 425 sl Yes No Yes No
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? Will toxic pollutants be stored or handled on or near the permeable pavement? Proposed slope of the subgrade surface (%) Are terraces or baffles provided?	75.5 ft 78 ft Yes No #57 6 in	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 If so, what is the drawdown time for the design storm? #11 Have edge restraints been provided? #12 Will the subgrade be graded when dry?	1377 s 425 si Yes No Yes No Yes No
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: SHWT elevation (fmsl) Top of the subgrade (fmsl) Storage elevation of the design rainfall depth (fmsl) Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet? Will toxic pollutants be stored or handled on or near the permeable pavement? Proposed slope of the subgrade surface (%) Are terraces or baffles provided? Size of aggregate to be used in the subbase	75.5 ft 78 ft Yes No #57 6 in 0.4	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 Is this a detention permeable pavement system? #11 Have edge restraints been provided? #12 Will the subgrade be graded when dry? #13 Will the permeable pavment be protected from sediment during construction?	1377 s 425 si Yes No Yes No Yes Yes Yes Yes
What is the method for dewatering the SCM for maintenance? PERMEABLE PAVEMENT MDC FROM 02H .1055 Was the soil investigated in the footprint and at the elevation of the infiltration system? Briefly describe the hydraulic properties and characteristics of the soil profile: Was SHWT elevation (fmsl) Storage elevation of the design rainfall depth (fmsl) Storage elevation of the design rainfall depth (fmsl) Storage elevation of the subgrade on or near the permeable pavement? Was will toxic pollutants be stored or handled on or near the permeable pavement? Are terraces or baffles provided? Size of aggregate to be used in the subbase Storage aggregate depth (in)	75.5 ft 78 ft Yes No #57 6 in	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile? #9 Is at least one observation well per terrace been provided at the low point(s)? #10 If so, what is the drawdown time for the design storm? #11 Have edge restraints been provided? #12 Will the subgrade be graded when dry?	1377 s 425 si Yes No Yes No Yes No



PERMEABLE PAVEMENT

Orainage area number	CANCELLA CONTRACTOR CO	EXPENSION DESCRIPTION DESCRIPTION OF A STATE OF THE PROPERTY O	CONTRACTOR OF THE PERSON OF THE PERSON
Stanlage and manuser	3	Break down of BUA in the drainage area (both new and existing):	
Total coastal wetlands area (sq ft)		- Parking / driveway (sq ft)	
Total surface water area (sq ft)		- Sidewalk (sq ft)	
Total drainage area (sq ft)	1858 sf	- Roof (sq ft)	
BUA associated with existing development (sq ft)		- Roadway (sq ft)	
Proposed new BUA (sq ft)		- Other, please specify in the comment box below (sq ft)	
Percent BUA of drainage area		Total BUA (sq ft)	MANAGEMENT OF THE PROPERTY OF
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM			
ormwaler program(s) that apply (please specify):		Design rainfall depth (in)	1.5 in
		Minimum volume required (cu ft)	
		Design volume of SCM (cu ft)	CONTRACTOR OF THE STREET
GENERAL MDC FROM 02H .1050		THE STATE OF THE CONTROL OF THE STATE CONTROL OF THE STATE OF THE STAT	
Is the SCM sized to treat the SW from all surfaces at build-out?	No	#7 If applicable, with the SCM be cleaned out after construction?	FOR STREET CO. 24
#2 Is the SCM located on or near contaminated soils?	No	#8 Does the mainetenance access comply with General MDC (8)?	
3 What are the side slopes of the SCM (H:V)?		#9 Does the drainage easement comply with General MDC (9)?	
3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	
44 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
t5 Is there a a bypass for flows in excess of the design flow?		#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
		#13 Was the SCM designed by an NC licensed professional?	Yes
#6 What is the method for dewatering the SCM for maintenance?			
#6 What is the method for dewatering the SCM for maintenance?	AND A DAY OF THE PARTY OF THE PARTY OF		
PERMEABLE PAVEMENT MDC FROM 02H .1055	No		
PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No	#6 How will the pavement surface be tested?	
PERMEABLE PAVEMENT MDC FROM 02H .1055	No		The second secon
PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No		1469 s
PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system?	No	#6 How will the pavement surface be tested?	1469 s
PERMEABLE PAVEMENT MDC FROM 02H .1055 #1 Was the soil investigated in the footprint and at the elevation of the infiltration system? #1 Briefly describe the hydraulic properties and characteristics of the soil profile:		#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet)	1469 s
PERMEABLE PAVEMENT MDC FROM 02H .1055 41 Was the soil investigated in the footprint and at the elevation of the infiltration system? 41 Briefly describe the hydraulic properties and characteristics of the soil profile: 42 SHWT elevation (fmsl)	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet)	1469 s Yes
PERMEABLE PAVEMENT MDC FROM 02H .1055 41 Was the soil investigated in the footprint and at the elevation of the infiltration system? 41 Briefly describe the hydraulic properties and characteristics of the soil profile: 42 SHWT elevation (fmsl) 43 Top of the subgrade (fmsl)		#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet)	
PERMEABLE PAVEMENT MDC FROM 02H .1055 1 Was the soil investigated in the footprint and at the elevation of the infiltration system? 2 Briefly describe the hydraulic properties and characteristics of the soil profile: 2 SHWT elevation (fmsl) 3 Top of the subgrade (fmsl) 3 Storage elevation of the design rainfall depth (fmsl)	75.5 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours)	
PERMEABLE PAVEMENT MDC FROM 02H .1055 11 Was the soil investigated in the footprint and at the elevation of the infiltration system? 12 SHWT elevation (fmsl) 13 Top of the subgrade (fmsl) 14 Storage elevation of the design rainfall depth (fmsl) 15 Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	75.5 ft 78.25 ft	#6 How will the pavement surface be tested? #7 Area of permeable pavement to be installed (square feet) #7 Area of screened roof runoff that is directed to pavement (square feet) #7 Area of additional built-upon area runoff that is directed to pavement (square feet) #7 Will runoff from pervious surfaces be directed away from the pavement? #8 Dewatering time (hours) #8 Is additional media being added to the soil profile?	Yes
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Orainage area number	4	Break down of BUA in the drainage area (both new and existing):	
Total coastal wetlands area (sq ft)		- Parking / driveway (sq ft)	
Total surface water area (sq ft)		- Sidewalk (sq ft)	183 sf
Total drainage area (sq ft)	1196 sf	- Roof (sq ft)	
BUA associated with existing development (sq ft)		- Roadway (sq ft)	
Proposed new BUA (sq ft)	183 sf	- Other, please specify in the comment box below (sq ft)	
Percent BUA of drainage area	15%	Total BUA (sq ft)	183 st
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM			
Stormwater program(s) that apply (please specify):	BULL OF CHAIN OF THE PERSONS AND CO.	Design rainfall depth (in)	1.5 in
77, 77, 77, 77, 77, 77, 77, 77, 77, 77,		Minimum volume required (cu ft)	
		Design volume of SCM (cu ft)	
GENERAL MDC FROM 02H .1050		report frame in the contract of the contract o	
#1 Is the SCM sized to treat the SW from all surfaces at build-out?	No	#7 If applicable, with the SCM be cleaned out after construction?	
½2 Is the SCM located on or near contaminated soils?	No	#8 Does the mainetenance access comply with General MDC (8)?	
#3 What are the side slopes of the SCM (H:V)?		#9 Does the drainage easement comply with General MDC (9)?	
#3 Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	
#4 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
#5 Is there a a bypass for flows in excess of the design flow?		#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
#6 What is the method for dewatering the SCM for maintenance?		#13 Was the SCM designed by an NC licensed professional?	Yes
PERMEABLE PAVEMENT MDC FROM 02H .1055			
THE RESIDENCE OF THE PARTY OF T	A STATE OF THE PROPERTY OF THE	AND THE PROPERTY OF THE PROPER	ALTERNATION OF THE PERSON OF T
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	No		617 e
	No	#7 Area of permeable pavement to be installed (square feet)	617 s
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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.
ECEI 232	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 reinstalled. 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.
ENGINEER	ING	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:Robert High Offices
BMP drainage area or lot number: #1
Print name:RHJR PROPERTIES, LLC (Robert High)
Title:President
Address: 223 Greenville Ave Wilmington, NC 28403
Phone:910-790-9490
Signature:
Date: 06.22.18
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.
1, Carolyn 5. White, a Notary Public for the State of
Josh Carolina, County of Parkey, do hereby certify that
Pobert M High personally appeared before me this 22
day of May, 2018, and acknowledge the due execution of the
forgoing permeable pavement maintenance requirements. Witness my hand and official
seal,
SEAL
CAROLYN S WHITE Notary Public, North Carolina Pender County My Commission Expires October 03, 2022

My commission expires 10.03-22