

Permit: 414675

PIN: 0060000057E0000



Curltuck
RÉPAIR

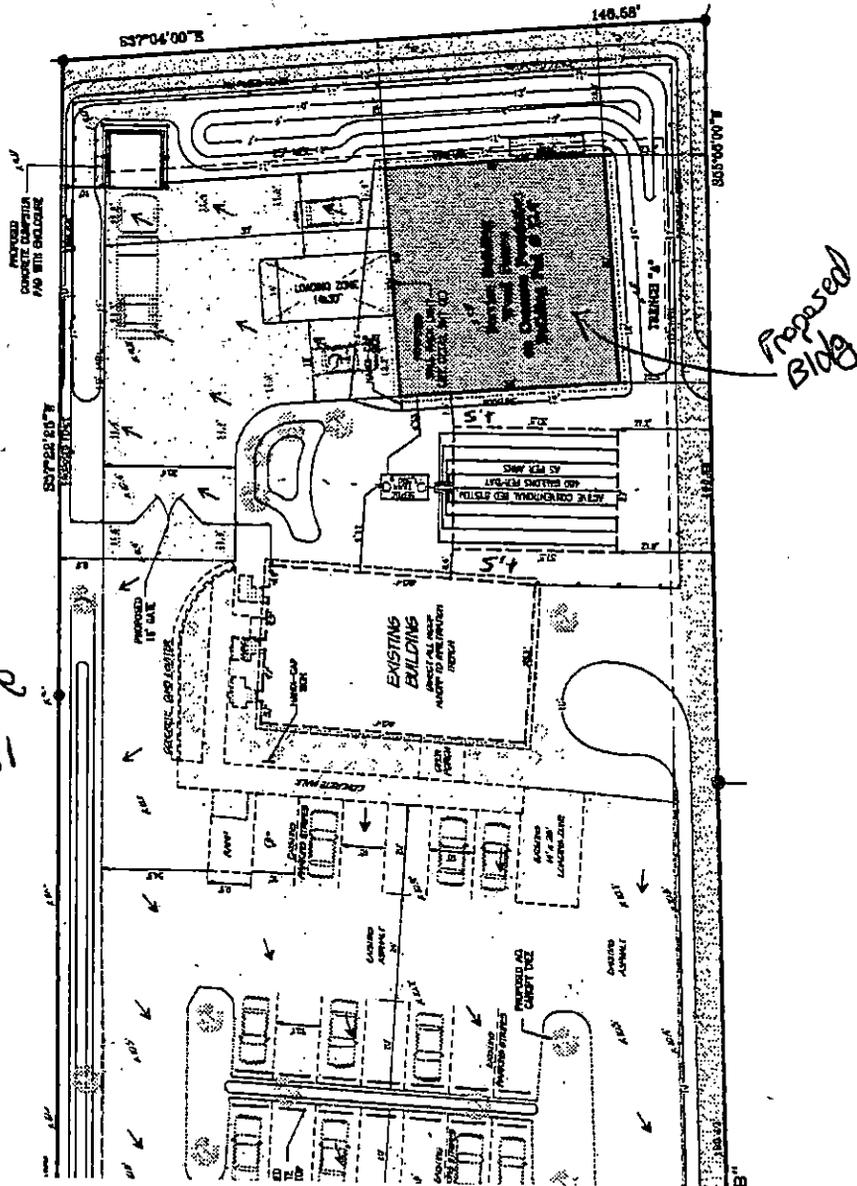
Owner:
Evolve Design & Build
261 Maple Rd
Maple, NC 27956

Applicant:
Evolve Design & Build
261 Maple Rd
Maple, NC 27956

LTAR: 0.500
Water: PUBLIC
TYPE II A.
SINGLE FAMILY
GPD: 350

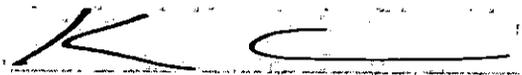
Location:
3949 Caratoke Hwy

- Pump, crush, & Fill in existing tank
- Add new 1000 gallon septic tank
9 lines
39' long
3' on-center
(27' x 39' Bed System)
- set tank high so top of lines are 0-18 inches below existing grade surface
- Keep system 50'+ to Omg Well



- Caratoke Hwy -

Authorized Agent:


Carver, Kevin

Date: 06/21/2024

Approved:

Date: _____

THE AUTHORIZATION FOR WASTEWATER SYSTEM CONSTRUCTION (CONSTRUCTION AUTHORIZATION) SHALL BE VALID FOR A PERIOD OF 60 MONTHS AFTER THE DATE OF ISSUANCE.

The issuance of the Improvement Permit or Construction Authorization in no way guarantees the issuance of other local, state or federal permits.

Wastewater systems and water supplies shall meet state and/or local regulations.

NO CHANGES IN THIS DOCUMENT ARE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE HEALTH DEPARTMENT. IF THE INFORMATION SUBMITTED IN THE APPLICATION FOR THE IMPROVEMENT PERMIT OR CONSTRUCTION AUTHORIZATION IS FOUND TO BE INCORRECT, CHANGED, OR IF THE SITE IS ALTERED, THE IMPROVEMENT PERMIT OR CONSTRUCTION AUTHORIZATION SHALL BECOME INVALID AND MAY BE SUSPENDED OR REVOKED.

When contacting the Environmental Health office concerning this document, be sure to know the application number. The number must be used in all inquiries and inspection requests.

The Environmental Health Staff can be located at the following telephone numbers between 8:00 a.m. and 8:30 a.m., Monday through Friday, except holidays. The office telephone numbers are:

Camden.....	(252) 338-4460	Pasquotank.....	(252) 338-4490
Chowan.....	(252) 482-1199	Perquimans.....	(252) 426-2100
Currituck.....	(252) 232-6603	Bertie.....	(252) 794-5303
.....		Gates.....	(252) 357-1380

Wastewater system installers are responsible for notifying the Environmental Health offices for final inspections. Wastewater systems must be inspected and approved by a representative of the Environmental Health staff before any portion of the installation is covered and/or used.

ISSUANCE OF AN OPERATIONS PERMIT SHALL INDICATE THE WASTEWATER SYSTEM HAS BEEN CONSTRUCTED TO THE STANDARDS SET FORTH IN THE REGULATIONS, BUT SHALL IN NO WAY BE TAKEN AS A GUARANTEE THAT THE SYSTEM WILL FUNCTION SATISFACTORILY FOR ANY GIVEN PERIOD OF TIME.

Wastewater systems shall be operated and maintained in such a manner as to not create a public health hazard. Septic tanks should be pumped out every 3 to 5 years by a permitted pumper. Please conserve water!

Minimum Distances*

Ground Absorption Wastewater Systems to:

- 1. Private water supply sources 100'
- 2. Public water supply sources 100'
- 3. Coastal waters (mean high water mark) 50'
- 4. Streams, canals, marshes, or other surface waters 50'
- 5. Lakes and ponds 50'
- 6. Groundwater lowering ditches and devices 25'
- 7. Embankments or cuts 15'
- 8. Swimming pools 15'
- 9. Property Lines 10'
- 10. Water lines 10'
- 11. Building foundations 5'

Private Wells to:

- 1. Wastewater systems 100'
- 2. Building foundations 25'
- 3. Surface waters 50'
- 4. Property lines 10'

*Variances can be given on some distances; please call the Environmental Health office if you feel a variance is necessary.

Septic tanks, nitrification fields, and repair areas shall not be located under paved areas or areas subject to vehicular traffic.



Major Stormwater Plan Form SW-002 Review Process

Contact Information

Currituck County
Planning and Community Development
153 Courthouse Road, Suite 110
Currituck, NC 27929

Phone: 252.232.3055
Fax: 252.232.3026

Website: <http://www.co.currituck.nc.us/planning-community-development.cfm>

Currituck County
Engineering Department
153 Courthouse Road, Suite 302
Currituck, NC 27929

Phone: 252.232.6035

General

Major stormwater plan approval is required for:

- Major subdivisions.
- Major site plans - development or expansion on a nonresidential, multi-family, or mixed use lot by 5,000 square feet or more of impervious coverage or resulting in 10% or more total impervious coverage.

Step 1: Application Submittal

The applicant must submit a complete application packet consisting of the following:

- Completed Currituck County Minor Stormwater Plan Form SW-002 (unless submitting a major subdivision or major site plan).
- Completed Rational Method Form SW-003 or NRCS Method Form SW-004.
- Stormwater management plan drawn to scale. The plan shall include the items listed in the major stormwater plan design standards checklist.
- Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable.
- NCDENR permit applications, if applicable.
- Number of Copies Submitted:
 - 3 Copies of required plans
 - 3 Hard copies of ALL documents
 - 1 PDF digital copy (ex. Compact Disk – e-mail not acceptable) of all plans AND documents.

On receiving an application, staff shall determine whether the application is complete or incomplete. A complete application contains all the information and materials listed above, and is in sufficient detail to evaluate and determine whether it complies with appropriate review standards. An application for major stormwater plan must be submitted and approved prior altering an existing drainage system, performing any land disturbing activity or, before construction documents are approved.

Step 2: Staff Review and Action

Once an application is determined complete staff shall approve, approve subject to conditions or disapprove the application.



Major Stormwater Plan Form SW-002

OFFICIAL USE ONLY:
Permit Number: _____
Date Filed: _____
Date Approved: _____

Contact Information

APPLICANT:

Name: Kwasny Engineering
Address: 198 Augusta Drive
Grandy, NC 27939
Telephone: 757-705-0585
E-Mail Address: Dneff@Kwasnyeng.com

PROPERTY OWNER:

Name: Jordan Daneker
Address: 3949 Caratoke Hwy
Barco, NC 27912
Telephone: 252-202-9008
E-Mail Address: Jordan@Evolvedesignbuildllc

Property Information

Physical Street Address: 3949 Caratoke Hwy
Parcel Identification Number(s): 0060000057E0000
FEMA Flood Zone Designation: X

Request

Project Description: Contractor Service and Storage Yard
Total land disturbance activity: 60,715 sf Calculated volume of BMPs: 22,875 sf
Maximum lot coverage: 61,456 sf Proposed lot coverage: 34,552 sf

TYPE OF REQUEST

- Major subdivision (10-year, 24-hour rate)
- Major site plan (5-year, 24-hour rate)

METHOD USED TO CALCULATE PEAK DISCHARGE

- Rational Method
- NRCS Method (TR-55 and TR-20)
- Simple volume calculation for small sites (less than 10 acres)
- Alternative stormwater runoff storage analysis
- Downstream drainage capacity analysis

I hereby authorize county officials to enter my property for purposes of determining compliance. All information submitted and required as part of this process shall become public record.

Property Owner(s)/Applicant

7/25/24

Date

Major Stormwater Plan Design Standards Checklist

The table below depicts the design standards of the major stormwater plan application. Please make sure to include all applicable listed items to ensure all appropriate standards are reviewed.

Major Stormwater Plan Design Standards Checklist

Date Received: _____

Project Name: Evolve Design + Build LLC

Applicant/Property Owner: Jordan Daneker

Minor Stormwater Plan Design Standards Checklist		
General		
1	Property owner name and address.	✓
2	Site address and parcel identification number.	✓
3	North arrow and scale to be 1" = 100' or larger.	✓
Site Features		
4	Scaled drawing showing existing and proposed site features: Property lines with dimensions, acreage, streets, easements, structures (dimensions and square footage), fences, bulkheads, septic area (active and repair), utilities, vehicular use areas, driveways, and sidewalks.	✓
5	Approximate location of all designated Areas of Environmental Concern (AEC) or other such areas which are environmentally sensitive on the property, such as Maritime Forest, CAMA, 404, or 401 wetlands as defined by the appropriate agency.	✓
6	Existing and proposed ground elevations shown in one foot intervals. All elevation changes within the past six months shall be shown on the plan.	✓
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	✓
9	Square footage of all existing and proposed impervious areas (structures, sidewalks, walkways, vehicular use areas regardless of surface material), including a description of surface materials.	✓
10	Existing and proposed drainage patterns, including direction of flow.	✓
11	Location, capacity, design plans (detention, retention, infiltration), and design discharge of existing and proposed stormwater management features.	✓
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	✓ (REPORT)
13	Plant selection.	✓
Permits and Other Documentation		
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	✓ (LANDMARK)
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land disturbance).	✓ (LANDMARK)
16	NCDENR coastal area management act permit application, if applicable.	N/A
17	Stormwater management narrative with supporting calculations.	✓
18	Rational Method Form SW-003 or NRCS Method Form SW-004	N/A
19	Alternative stormwater runoff storage analysis and/or downstream drainage capacity analysis, if applicable	✓
20	Design spreadsheets for all BMPs (Appendix F – Currituck County Stormwater Manual).	✓
21	Detailed maintenance plan for all proposed BMPs.	✓

Certificate

22 The major stormwater plan shall contain the following certificate:

I, _____, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.

On the plan entitled _____, stormwater drainage improvements shall be installed according to these plans and specifications and approved by Currituck County. Yearly inspections are required as part of the stormwater plan. The owner is responsible for all maintenance required. Currituck County assumes no responsibility for the design, maintenance, or performance of the stormwater improvements.

Date: _____ Owner/Agent: _____

on Plans
↙

Major Stormwater Plan Submittal Checklist

Staff will use the following checklist to determine the completeness of your application. Please make sure all of the listed items are included. Staff shall not process an application for further review until it is determined to be complete.

Major Stormwater Plan Form SW-002 Submittal Checklist

Date Received: _____

Project Name: Evolve Design + Build LLC

Applicant/Property Owner: Jordan Daneker

Major Stormwater Plan Form SW-002 Submittal Checklist		
1	Completed Major Stormwater Plan Form SW-002	✓
2	Completed Rational Method Form SW-003 or NRCS Method Form SW-004	N/A
3	Stormwater plan	✓
4	NCDENR permit applications, if applicable	✓
5	3 copies of plans	N/A
6	3 hard copies of ALL documents	N/A
7	1 PDF digital copy of all plans AND documents (ex. Compact Disk – e-mail not acceptable)	✓

(comment)

Comments

Currituck County Land Transfer Tax: 5900.00 County Excise Tax: 1985 Sessions Law Chapter 670 (HB 215)

Excise Tax:

Recording Time, Book and Page:

Parcel No: 0060-000-057E-0000 & 0060-000-057E

Mail after recording to: **Brumsey & Brumsey, PLLC, P.O. Box 100, Currituck, NC 27929**

This instrument was prepared by: **William Brumsey, III/mnm file no. 23B61392**

Brief Description for Index:

Crawford Township

NORTH CAROLINA GENERAL WARRANTY DEED

This DEED, made this **23rd.** day of **February** **2024** by and between

GRANTOR

GRANTEE

PATRICIA BERRY, widow

EVOLVE DESIGN + BUILD, LLC, A North Carolina Limited Liability Company

**1143 Waterlily Rd.
Coinjock, NC 27923**

**3949 Caratoke Hwy.
Barco, NC 27917**

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.q. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of all of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the said Grantee in fee simple, all that certain lot or parcel of land situated in **Crawford Township, Currituck** County, North Carolina, more particularly described as follows:

Lots 4 and 5 shown on a plat prepared by Sadler Surveying, PLLC entitled "Surveyed for Evolve Design & Build, LLC, Lot 4 & 5 Barco Commercial Lots" recorded in Plat Cabinet S, Slide 95, in the office of the Register of Deeds of Currituck County.

There is excepted from this conveyance any part of the above described parcels conveyed to the North Carolina Department of Transportation by Deed recorded in Deed Book 582, Page 93 and Deed Book 582, Page 95.

All or a portion of the property herein conveyed ___ includes or X does not include the primary residence of a Grantor.

This instrument prepared by: William Brumsey, III, a licensed North Carolina attorney. Delinquent taxes, if any, to be paid by the closing attorney to the County tax collector upon disbursement of closing proceeds.

The property hereinabove described was acquired by Grantor by instrument recorded in Book 408 Page 887 And Deed Book 397, Page 38.

A map showing the above described property is recorded in Plat Book S Page 95.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to Grantees in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

Reservations, restrictions and easements of record.

This conveyance is made subject to any laws, rules, regulations or ordinances, whether local, County, State or Federal, relating to subdivision, development, construction on or use of the property conveyed.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

By (Corporate Name) PATRICIA BERRY (SEAL) President (SEAL) ATTEST: (SEAL) Secretary (Corporate Seal) (SEAL)

STATE OF NORTH CAROLINA, COUNTY OF CURRITUCK

I, Marydith N. Mansfield a Notary Public do hereby certify

that PATRICIA BERRY personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

Witness my hand and official stamp or seal this 28 day of Feb. 2024.



Marydith N. Mansfield (SEAL) Notary Public



KITTY HAWK
3841 N CROATAN HWY
KITTY HAWK, NC 27949-9238
(800)275-8777

07/24/2024

02:48 PM

Product	Qty	Unit Price	Price
---------	-----	------------	-------

Priority Mail®	1		\$11.00
Washington, NC 27889			
Weight: 1 lb 0.20 oz			
Expected Delivery Date			
Fri 07/26/2024			
Tracking #:			
9505 5117 5807 4206 6803 08			
Insurance			\$0.00
Up to \$100.00 included			

Total \$11.00

Priority Mail®	1		\$11.00
Washington, NC 27889			
Weight: 1 lb 5.50 oz			
Expected Delivery Date			
Fri 07/26/2024			
Tracking #:			
9505 5117 5807 4206 6803 22			
Insurance			\$0.00
Up to \$100.00 included			

Total \$11.00

Grand Total: \$22.00

Debit Card Remit \$22.00
Card Name: MasterCard
Account #: XXXXXXXXXXXXX2723
Approval #: C34835
Transaction #: 085
Receipt #: 024749
Debit Card Purchase: \$22.00
AID: A000000C042203 Chip
AL: Debit
PIN: Verific

Text your tracking number to 28777 (2USPS) to get the latest status. Standard Message and Data rates may apply. You may also visit www.usps.com USPS Tracking or call 1-800-222-1811.

Save this receipt as evidence of insurance. For information on filing an insurance claim go to <https://www.usps.com/help/claims.htm> or call 1-800-222-1811

Preview your Mail
Track your Packages
Sign up for FREE @
<https://informeddelivery.usps.com>

All sales final on stamps and postage. Refunds for guaranteed services only. Thank you for your business.

Tell us about your experience. Go to: <https://postalexperience.com/Pos> or scan this code with your mobile device,



or call 1-800-410-7420.

UFN: 364144-0449
Receipt #: 840-52700344-2-5208914-1
Clerk: 55



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949

252-715-3497

July 24, 2024

Richard Peed
NCDE&NR
Division of Land Resources
943 Washington Square Mall
Washington, NC 27889

Evolve Design + Build
3949 Caratoke Highway, Barco, Currituck County, NC
Sedimentation and Erosion Control Plan Application Package

Dear Mr. Peed:

On Behalf of Evolve Design + Build, LLC, Landmark Engineering & Environmental, P.C. Submits for your review and approval, a Sedimentation and Erosion Control package containing the following:

- 1.) Check payable to NCDE&NR in the amount of \$200.00.
- 2.) Three sets of Plan sheets and details (Sheets C1-C4).
- 3.) Two copies of two NRCS online maps for Soils at the site.
- 4.) Two copies of the deed for the Property.
- 5.) One Original and one copy of the Financial Responsibility Form.
- 6.) Two copies of the project narrative

Thank you for your time, attention and help with this project. If you have any questions or require any additional information, please contact me at (252) 202-6460, or at victor@landmarkeng.net.

Respectfully submitted,
Landmark Engineering & Environmental, P.C.

Victor White, P.E.

EVOLVE DESIGN + BUILD, LLC
261 MAPLE RD
MAPLE, NC 27956

66-456/531

1633

DATE 3/24/24



PAY TO THE ORDER OF NCDENK

\$ 200.00

two hundred dollars & 00/100

Security Features: Microprint, Digital Ink, Watermark, Ultraviolet, and more. Details on back.

DOLLARS

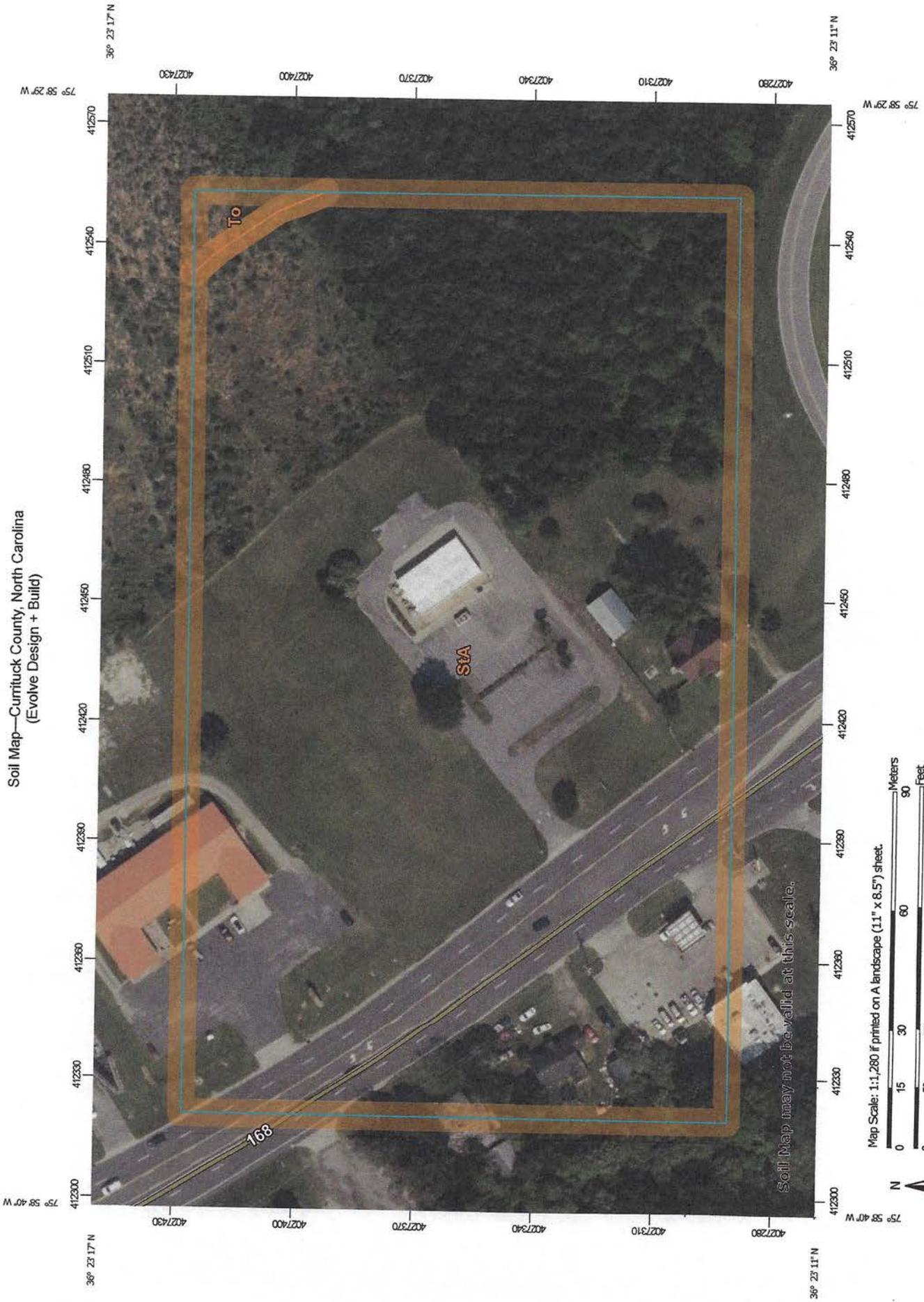
[Handwritten Signature]
AUTHORIZED SIGNATURE

FIRST BANK FIRST BANK
localfirstbank.com

FOR Soil Erosion + Sedimentation

⑈001633⑈ ⑆053104568⑆ 8060017673⑈

Soil Map—Currituck County, North Carolina
(Evolve Design + Build)



MAP LEGEND

 Area of Interest (AOI)	 Spoil Area
 Soils	 Stony Spot
 Soil Map Unit Polygons	 Very Stony Spot
 Soil Map Unit Lines	 Wet Spot
 Soil Map Unit Points	 Other
Special Point Features	 Special Line Features
 Blowout	Water Features
 Borrow Pit	 Streams and Canals
 Clay Spot	Transportation
 Closed Depression	 Rails
 Gravel Pit	 Interstate Highways
 Gravelly Spot	 US Routes
 Landfill	 Major Roads
 Lava Flow	 Local Roads
 Marsh or swamp	Background
 Mine or Quarry	 Aerial Photography
 Miscellaneous Water	
 Perennial Water	
 Rock Outcrop	
 Saline Spot	
 Sandy Spot	
 Severely Eroded Spot	
 Sinkhole	
 Slide or Slip	
 Sodic Spot	

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Currituck County, North Carolina
Survey Area Data: Version 23, Sep 13, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 18, 2022—May 31, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
StA	State fine sandy loam, 0 to 2 percent slopes	7.8	99.1%
To	Tomotley fine sandy loam	0.1	0.9%
Totals for Area of Interest		7.9	100.0%

Unofficial Document

Currituck County Land Transfer Tax: 5900.00 County Excise Tax: 1985 Sessions Law Chapter 670 (HB 215)

Excise Tax:

Parcel No: 0060-000-057B-0000 & 0060-000-057E

Recording Time, Book and Page:

Mail after recording to: **Brumsey & Brumsey, PLLC, P.O. Box 100, Currituck, NC 27929**

This instrument was prepared by: **William Brumsey, III/mnm file no. 23B61392**

Brief Description for Index: **Crawford Township**

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This DEED, made this **23rd.** day of **February** **2024** by and between

GRANTOR

GRANTEE

PATRICIA BERRY, widow

EVOLVE DESIGN + BUILD, LLC, A North Carolina Limited Liability Company

**1143 Waterlily Rd.
Coinjock, NC 27923**

**3949 Caratoke Hwy.
Barco, NC 27917**

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.q. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of all of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the said Grantee in fee simple, all that certain lot or parcel of land situated in **Crawford** Township, **Currituck** County, North Carolina, more particularly described as follows:

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And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

Reservations, restrictions and easements of record.

This conveyance is made subject to any laws, rules, regulations or ordinances, whether local, County, State or Federal, relating to subdivision, development, construction on or use of the property conveyed.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

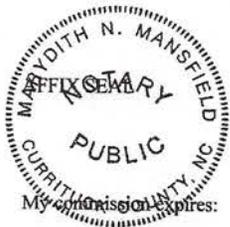
 (Corporate Name) Patricia P. Berry (SEAL)
 By _____ (SEAL)
 _____ President
 ATTEST: _____ (SEAL)
 _____ Secretary (Corporate Seal) (SEAL)

STATE OF NORTH CAROLINA, COUNTY OF CURRITUCK

I, Marydith N. Mansfield a Notary Public do hereby certify

that **PATRICIA BERRY** personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

Witness my hand and official stamp or seal this 28 day of Feb. 2024.



Marydith N. Mansfield (SEAL)
 Notary Public

Check if this project is ARPA-funded
Attach a copy of the Letter of Intent to Fund

FINANCIAL RESPONSIBILITY/OWNERSHIP FORM SEDIMENTATION POLLUTION CONTROL ACT

No person may initiate any land-disturbing activity on one or more acres as covered by the Act, including any activity under a common plan of development of this size as covered by the NCG01 permit, before this form and an acceptable erosion and sedimentation control plan have been completed and approved by the Land Quality Section, N.C. Department of Environmental Quality. Submit the completed form to the appropriate Regional Office. (Please type or print and, if the question is not applicable or the e-mail address or phone number is unavailable, place N/A in the blank.)

Part A.

1. Project Name EVOLVE DESIGN + BUILD

**If this project involves American Rescue Plan Act (ARPA) funds, list the Project Name or Project Number (e.g., SRP-D-ARP-0121) below under which you were approved for funding through the Division of Water Infrastructure (DWI).*

2. Location of land-disturbing activity: County CURRITUCK City or Township BARCO
Highway/Street 3949 CARATOKE HIGHWAY Latitude(decimal degrees) 36.8872 Longitude(decimal degrees) 75.9761

3. Approximate date land-disturbing activity will commence: SEPTEMBER 2024

4. Purpose of development (residential, commercial, industrial, institutional, etc.): COMMERCIAL

5. Total acreage disturbed or uncovered (including off-site borrow and waste areas): 1.4

6. Amount of fee enclosed: \$. The application fee of \$100.00 per acre (rounded up to the next acre) is assessed without a ceiling amount (Example: 8.10-acre application fee is \$900). Checks should be addressed to NCDEQ.

7. Has an erosion and sediment control plan been filed? Yes Enclosed No

8. Person to contact should erosion and sediment control issues arise during land-disturbing activity:

Name VICTOR WHITE, P.E E-mail Address victor@landmarkeng.net

Phone: Office # 252-715-3497 Mobile # 252 202-6460

9. Landowner(s) of Record (attach accompanied page to list additional owners):

EVOLVE DESIGN + BUILD
Name JORDAN DANEKER 252 455-6410 252 202-9008
Phone: Office # Mobile #

3949 CARATOKE HIGHWAY
Current Mailing Address Current Street Address

BARCO NC 27917
City State Zip City State Zip

10. Deed Book No. 408 1762 Page No. 387 321 Provide a copy of the most current deed.

Part B.

1. Company(ies) who are financially responsible for the land-disturbing activity (Provide a comprehensive list of all responsible parties on accompanied page.) *If the company is a sole proprietorship or if the landowner(s) is an individual(s), the name(s) of the owner(s) may be listed as the financially responsible party(ies).*

EVOLVE DESIGN + BUILD, LLC
Company Name _____ E-mail Address _____
3949 CARATOKE HIGHWAY
Current Mailing Address _____ Current Street Address _____
BARCO NC 27917
City State Zip City State Zip
Phone: Office # _____ Mobile # _____

Note: If the Financially Responsible Party is not the owner of the land to be disturbed, include with this form the landowner's signed and dated written consent for the applicant to submit a draft erosion and sedimentation control plan and to conduct the anticipated land disturbing activity.

2. (a) If the Financially Responsible Party is a domestic company registered on the NC Secretary of State business registry, give name and street address of the Registered Agent:

Name of Registered Agent _____ E-mail Address _____

Current Mailing Address _____ Current Street Address _____

City State Zip City State Zip
Phone: Office # _____ Mobile # _____

Name of Individual to Contact (if Registered Agent is a company)

- (b) If the Financially Responsible Party is not a resident of North Carolina, give name and street address of the designated North Carolina agent who is registered on the NC Secretary of State business registry:

Name of Registered Agent _____ E-mail Address _____

Current Mailing Address _____ Current Street Address _____

City State Zip City State Zip
Phone: Office # _____ Mobile # _____

Name of Individual to Contact (if Registered Agent is a company)

(c) If the Financially Responsible Party is engaging in business under an assumed name, give name under which the company is Doing Business As. If the Financially Responsible Party is an individual, General Partnership, or other company not registered and doing business under an assumed name, attach a copy of the Certificate of Assumed Name.

Company DBA Name

The above information is true and correct to the best of my knowledge and belief and was provided by me under oath. (This form must be signed by the Financially Responsible Person if an individual(s) or his attorney-in-fact, or if not an individual, by an officer, director, partner, or registered agent with the authority to execute instruments for the Financially Responsible Party). I agree to provide corrected information should there be any change in the information provided herein.

JORDAN DANEKER
Type or print name

MANAGING MEMBER
Title or Authority

[Signature]
Signature

7-24-24
Date

I, Christy Nichole Filipak, a Notary Public of the County of Chesapeake ^{CITY}
Virginia

State of North Carolina, hereby certify that Jordan Daneker appeared personally before me this day and being duly sworn acknowledged that the above form was executed by him/her.

Witness my hand and notarial seal, this 24th day of July, 2024

CHRISTY NICHOLE FILIPAK
NOTARY PUBLIC
REG. #7662038
COMMONWEALTH OF VIRGINIA
MY COMMISSION EXPIRES 09/30/2024

[Signature]
Notary

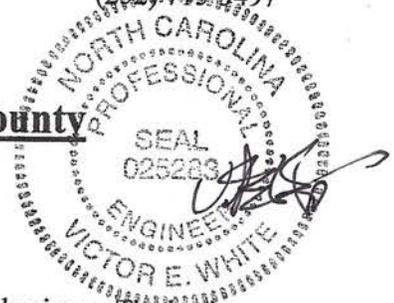
My commission expires 9/30/24



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949
(252) 715-3497

Evolve Deign + Build
3949 Caratoke Highway, Barco, Currituck County
Stormwater Management Plan
Design Narrative
June 24, 2024



The above referenced project is additional development of an existing commercial business. The business is located on lots 4 and 5 of "Barco Commercial Lots" as recorded with the Currituck County Register of Deeds. The two lots are a total of 102,427 sq.ft. or 2.35 acres. Existing Development at the site is concentrated on Lot 5 with an existing commercial building and associated parking and other infrastructure. The proposed development of the project area consists of an additional "service" building at the rear of lot 5 with associated concrete drive and associated infrastructure. Lot 4 development will consist of a gravel parking area, and a grass storage area with associated infrastructure. Stormwater runoff from the project, both existing and proposed, will be managed by 2 drainage areas, Drainage Area "A" will manage runoff from the majority of the proposed development, with the exception being the roadside concrete walk on Lot 5. Drainage Area "A" also receives runoff from the existing entrance drive from Caratoke Highway. Drainage Area "B" receives Stormwater runoff from the remaining existing impervious surfaces on Lot 5 and the proposed roadside concrete sidewalk on Lot 5. Stormwater runoff generated by the project will be managed by infiltration/detention basins through sheet flow.

Design parameters for the Stormwater Management conservatively assume 95% of runoff from impervious asphalt, concrete, gravel surfaces and buildings will be conveyed to the proposed infiltration /detention basins. The design storms for the system are a 1.5 inch rain event, (State, infiltration), and the runoff difference between the 2 year, 24 hour storm, (pre-development), and 5 year, 24 hour storm, (post-development), (County, detention and infiltration). Due to the soils present and conditions at the site, pre-development runoff at the site is taken as 0, and the design volume of the basins will retain the runoff volume from impervious surfaces generated by the 5 year, 24 hour storm. This storm is listed as a 4.81 inch rain event, according to NOAA Point Precipitation Frequency Estimates for the area. The site is located at 3949 Caratoke Highway, Barco, Currituck County, North Carolina.

The proposed stormwater management plan consists of two drainage areas. For Drainage Area "A". The infiltration area consists of a perimeter swale/basin system as shown on the attached drawings. Proposed impervious coverages consist of the proposed building, (2,705 sq. ft.), proposed concrete, (5,324 sq.ft.), proposed gravel pavement, (6,350 sq. ft.), and existing asphalt, (4,587 sq. ft.). The infiltration system for Drainage Area "A" will provide direct storage of 7,286 cu. ft., equivalent to a 4.85 inch rain event. Storage below the basin and above the Seasonal High Water Table provides additional storage of 4,525 cu.ft. for total storage for a 7.86 inch rain event.

For Drainage Area "B". The infiltration area consists of a rectangular basin with a conveyance swale as shown on the attached drawings. Proposed impervious coverages consist of the existing building, (2,256 sq. ft.), proposed concrete walk, (1,005 sq.ft.), existing asphalt pavement, (11,480 sq. ft.), and existing concrete, (845 sq. ft.). The infiltration system for Drainage Area "A" will provide direct storage of 6,450 cu. ft., equivalent to a 5.22 inch rain event. Storage below the basin and above the Seasonal High Water Table provides additional storage of 2,984 cu.ft. for total storage for a 7.64 inch rain event.

Erosion control measures for the site consist of temporary silt fence and inlet protection as well as permanent stabilization of soils at the site. All slopes are 4H: 1V or flatter, with the majority of slopes being 5H or 6H to 1V slope.



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949
252-715-3497

July 24, 2024

Mr. Bill Moore
NCDE&NR
Division of Land Resources
943 Washington Square Mall
Washington, NC 27889

Evolve Design + Build
3949 Caratoke Highway, Barco, Currituck County, NC
Stormwater Management Plan Application Package

Dear Mr. Moore:

On Behalf of Evolve Design + Build, Landmark Engineering & Environmental, P.C. Submits for your review and approval, a Stormwater Management Plan Permit Application Package containing the following:

- 1.) A check payable to NCDE&NR in the amount of \$1,000.00.
- 2.) An original and one copy of the Stormwater Management Plan Application Form.
- 3.) An original and one copy of Infiltration Basin Supplements for Drainage Areas A & B.
- 4.) Two copies of Stormwater Calculations and Narrative.
- 5.) Three sets of Plan sheets and details (Sheets C1-C4).
- 6.) Two copies of Soils information for Soils at the site.
- 7.) an original and one copy of the Infiltration basin O&M agreement.
- 8.) Two copies each of a GIS map showing the project location.

Thank you for your time, attention and help with this project. If you have any questions or require any additional information, please contact me at (252) 202-6460, or at victor@landmarkeng.net.

Respectfully submitted,
Landmark Engineering & Environmental, P.C.

Victor White, P.E.

EVOLVE DESIGN + BUILD, LLC
261 MAPLE RD
MAPLE, NC 27956

66-456/531

1632

PAY TO THE ORDER OF MC DENR

DATE

3/24/24

ONE THOUSAND DOLLARS & 00/100

\$ 1,000.00

DOLLARS

Reserve
Funds
Included.
Check on back

FIRST BANK

FIRST BANK

localfirstbank.com

FOR State Stormwater

AUTHORIZED SIGNATURE

⑆001632⑆ ⑆053104568⑆ 8060017673⑆

DEMLR USE ONLY		
Date Received	Fee Paid	Permit Number
Applicable Rules: <input type="checkbox"/> Coastal SW - 1995 <input type="checkbox"/> Coastal SW - 2008 <input type="checkbox"/> Ph II - Post Construction (select all that apply) <input type="checkbox"/> Non-Coastal SW- HQW/ORW Waters <input type="checkbox"/> Universal Stormwater Management Plan <input type="checkbox"/> Other WQ Mgmt Plan: _____		

State of North Carolina
Department of Environment and Natural Resources
Division of Energy, Mineral and Land Resources

STORMWATER MANAGEMENT PERMIT APPLICATION FORM
This form may be photocopied for use as an original

I. GENERAL INFORMATION

- Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):
Evolve Design + Build
- Location of Project (street address):
3949 Caratoke Highway
City: Barco County: Currituck Zip: 27917
- Directions to project (from nearest major intersection):
Site is on East side of Caratoke Highway, 350 feet North of the intersection of US Highway 158 and NC Highway 168 in Barco, Currituck County.
- Latitude: 36° 23' 14" N Longitude: 75° 58' 34" W of the main entrance to the project.

II. PERMIT INFORMATION:

- Specify whether project is (check one): New Modification Renewal w/ Modification[†]
†Renewals with modifications also requires SWU-102 - Renewal Application Form
- If this application is being submitted as the result of a **modification** to an existing permit, list the existing permit number _____, its issue date (if known) _____, and the status of construction: Not Started Partially Completed* Completed* **provide a designer's certification*
- Specify the type of project (check one):
 Low Density High Density Drains to an Offsite Stormwater System Other
- If this application is being submitted as the result of a **previously returned application** or a **letter from DEMLR requesting a state stormwater management permit application**, list the stormwater project number, if assigned, _____ and the previous name of the project, if different than currently proposed, _____.
- Additional Project Requirements (check applicable blanks; information on required state permits can be obtained by contacting the Customer Service Center at 1-877-623-6748):
 CAMA Major Sedimentation/Erosion Control: 1.4 ac of Disturbed Area
 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: _____
- Is the project located within 5 miles of a public airport? No Yes
If yes, see S.L. 2012-200, Part VI: <http://portal.ncdenr.org/web/lr/rules-and-regulations>

III. CONTACT INFORMATION

1. a. 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: Evolve Design + Build, LLC

Signing Official & Title: Jordan Daneker, Managing member

b. Contact information for person listed in item 1a above:

Street Address: 3949 Caratoke Highway

City: Barco

State: NC

Zip: 27917

Mailing Address (if applicable): _____

City: _____

State: _____

Zip: _____

Phone: (252) 455-6410

Fax: ()

Email: jordan@evolvedesignbuildllc.com

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

The property owner (Skip to Contact Information, item 3a)

Lessee* (Attach a copy of the lease agreement and complete Contact Information, item 2a and 2b below)

Purchaser* (Attach a copy of the pending sales agreement and complete Contact Information, item 2a and 2b below)

Developer* (Complete Contact Information, item 2a and 2b below.)

2. a. 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 located on):

Property Owner/Organization: _____

Signing Official & Title: _____

b. Contact information for person listed in item 2a above:

Street Address: _____

City: _____

State: _____

Zip: _____

Mailing Address (if applicable): _____

City: _____

State: _____

Zip: _____

Phone: ()

Fax: ()

Email: _____

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

Other Contact Person/Organization: Landmark Eng. & Env., P.C.

Signing Official & Title: Victor White, P.E., Stormwater Design Engineer

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

Mailing Address: P.O. Box 1190

City: Kitty Hawk

State: NC

Zip: 27949

Phone: (252) 715-3497

Fax: ()

Email: victor@landmarkeng.net

4. Local jurisdiction for building permits: Currituck County

Point of Contact: Bill Newns, Planning & Insp. Director

Phone #: (252) 232-6023

IV. PROJECT INFORMATION

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

See attached narrative.

2. a. If claiming vested rights, identify the supporting documents provided and the date they were approved:

- Approval of a Site Specific Development Plan or PUD Approval Date: _____
- Valid Building Permit Issued Date: _____
- Other: _____ Date: _____

b. If claiming vested rights, identify the regulation(s) the project has been designed in accordance with:

- Coastal SW - 1995
- Ph II - Post Construction

3. Stormwater runoff from this project drains to the Pasquotank River basin.

4. Total Property Area: 2.35 acres

5. Total Coastal Wetlands Area: 0 acres

6. Total Surface Water Area: 0 acres

7. Total Property Area (4) - Total Coastal Wetlands Area (5) - Total Surface Water Area (6) = Total Project Area*: 2.35 acres

* Total project area shall be calculated to exclude the following: the normal pool of impounded structures, the area between the banks of streams and rivers, the area below the Normal High Water (NHW) line or Mean High Water (MHW) line, and coastal wetlands landward from the NHW (or MHW) line. The resultant project area is used to calculate overall percent built upon area (BUA). Non-coastal wetlands landward of the NHW (or MHW) line may be included in the total project area.

8. Project percent of impervious area: (Total Impervious Area / Total Project Area) X 100 = 54.8 %

9. How many drainage areas does the project have? 2 (For high density, count 1 for each proposed engineered stormwater BMP. For low density and other projects, use 1 for the whole property area)

10. Complete the following information for each drainage area identified in Project Information item 9. If there are more than four drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below.

Basin Information	Drainage Area <u>A</u>	Drainage Area <u>B</u>	Drainage Area <u> </u>	Drainage Area <u> </u>
Receiving Stream Name	Coinjock Bay	Coinjock Bay		
Stream Class *	SC	SC30-1-6		
Stream Index Number *	30-1-6			
Total Drainage Area (sf)	73,157	29,270		
On-site Drainage Area (sf)	73,157	29,270		
Off-site Drainage Area (sf)	0	0		
Proposed Impervious Area** (sf)	18,966	15,384		
% Impervious Area** (total)	25.98	52.56		

Impervious** Surface Area	Drainage Area <u> </u>			
On-site Buildings/Lots (sf)	2,705			
On-site Streets (sf)	0			
On-site Parking (sf)	10,394			
On-site Sidewalks (sf)	1,130	1,005		
Other on-site (sf)	150			
Future (sf)	0			
Off-site (sf)	0			
Existing BUA*** (sf)	4,587	14,581		
Total (sf):	18,966	15,586		

* Stream Class and Index Number can be determined at: <http://portal.ncdenr.org/web/wq/ps/csu/classifications>

** Impervious area is defined as the built upon area including, but not limited to, buildings, roads, parking areas, sidewalks, gravel areas, etc.

*** Report only that amount of existing BUA that will remain after development. Do not report any existing BUA that is to be removed and which will be replaced by new BUA.

11. How was the off-site impervious area listed above determined? Provide documentation. n/a

Projects in Union County: Contact DEMLR Central Office staff to check if the project is located within a Threatened & Endangered Species watershed that may be subject to more stringent stormwater requirements as per 15A NCAC 02B .0600.

V. SUPPLEMENT AND O&M FORMS

The applicable state stormwater management permit supplement and operation and maintenance (O&M) forms must be submitted for each BMP specified for this project. The latest versions of the forms can be downloaded from <http://portal.ncdenr.org/web/wq/ws/su/bmp-manual>.

VI. SUBMITTAL REQUIREMENTS

Only complete application packages will be accepted and reviewed by the Division of Energy, Mineral and Land Resources (DEMLR). A complete package includes all of the items listed below. A detailed application instruction sheet and BMP checklists are available from http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs. The complete application package should be submitted to the appropriate DEMLR Office. (The appropriate office may be found by locating project on the interactive online map at <http://portal.ncdenr.org/web/wq/ws/su/maps>.)

Please **indicate that the following required information have been provided by initialing** in the space provided for each item. All original documents MUST be signed and initialed in **blue ink**. Download the latest versions for each submitted application package from http://portal.ncdenr.org/web/wq/ws/su/statesw/forms_docs.

- | | | |
|--|----------|--|
| 1. Original and one copy of the Stormwater Management Permit Application Form. | Initials | |
| 2. Original and one copy of the signed and notarized Deed Restrictions & Protective Covenants Form. (if required as per Part VII below) | | |
| 3. Original of the applicable Supplement Form(s) (sealed, signed and dated) and O&M agreement(s) for each BMP. | | |
| 4. Permit application processing fee of \$505 payable to NCDENR. (For an Express review, refer to http://www.envhelp.org/pages/onestopexpress.html for information on the Express program and the associated fees. Contact the appropriate regional office Express Permit Coordinator for additional information and to schedule the required application meeting.) | | |
| 5. A detailed narrative (one to two pages) describing the stormwater treatment/management | for | |
| 6. A USGS map identifying the site location. If the receiving stream is reported as class SA or the receiving stream drains to class SA waters within 1/2 mile of the site boundary, include the 1/2 mile radius on the map. | | |
| 7. Sealed, signed and dated calculations (one copy). | | |
| 8. Two sets of plans folded to 8.5" x 14" (sealed, signed, & dated), including: | | |
| a. Development/Project name. | | |
| b. Engineer and firm. | | |
| c. Location map with named streets and NCSR numbers. | | |
| d. Legend. | | |
| e. North arrow. | | |
| f. Scale. | | |
| g. Revision number and dates. | | |
| h. Identify all surface waters on the plans by delineating the normal pool elevation of impounded structures, the banks of streams and rivers, the MHW or NHW line of tidal waters, and any coastal wetlands landward of the MHW or NHW lines. | | |
| • Delineate the vegetated buffer landward from the normal pool elevation of impounded structures, the banks of streams or rivers, and the MHW (or NHW) of tidal waters. | | |
| i. Dimensioned property/project boundary with bearings & distances. | | |
| j. Site Layout with all BUA identified and dimensioned. | | |
| k. Existing contours, proposed contours, spot elevations, finished floor elevations. | | |
| l. Details of roads, drainage features, collection systems, and stormwater control measures. | | |
| m. Wetlands delineated, or a note on the plans that none exist. (Must be delineated by a qualified person. Provide documentation of qualifications and identify the person who made the determination on the plans. | | |
| n. Existing drainage (including off-site), drainage easements, pipe sizes, runoff calculations. | | |
| o. Drainage areas delineated (included in the main set of plans, not as a separate document). | | |

- p. Vegetated buffers (where required).
9. Copy of any applicable soils report with the associated SHWT elevations (Please identify elevations in addition to depths) as well as a map of the boring locations with the existing elevations and boring logs. Include an 8.5"x11" copy of the NRCS County Soils map with the project area clearly delineated. For projects with infiltration BMPs, the report should also include the soil type, expected infiltration rate, and the method of determining the infiltration rate. (Infiltration Devices submitted to WiRO: Schedule a site visit for DEMLR to verify the SHWT prior to submittal, (910) 796-7378.)
 10. A copy of the most current property deed. Deed book: 08, 1,762 Page No: 887, 821
 11. For corporations and limited liability corporations (LLC): Provide documentation from the NC Secretary of State or other official documentation, which supports the titles and positions held by the persons listed in Contact Information, item 1a, 2a, and/or 3a per 15A NCAC 2H.1003(e). The corporation or LLC must be listed as an active corporation in good standing with the NC Secretary of State, otherwise the application will be returned.
<http://www.secretary.state.nc.us/Corporations/CSearch.aspx>

VII. DEED RESTRICTIONS AND PROTECTIVE 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. If lot sizes vary significantly or the proposed BUA allocations vary, 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 from http://portal.ncdenr.org/web/lr/state-stormwater-forms_docs. Download the latest versions for each submittal.

In the 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 NC DEMLR, and that they will be recorded prior to the sale of any lot.

VIII. CONSULTANT INFORMATION AND AUTHORIZATION

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: Victor White, P.E.

Consulting Firm: Landmark Engineering & Environmental, P.C.

Mailing Address: P.O. Box 1190

City: Kitty Hawk

State: NC Zip: 27949

Phone: (252) 715-3497

Fax: ()

Email: vicor@landmarkeng.net

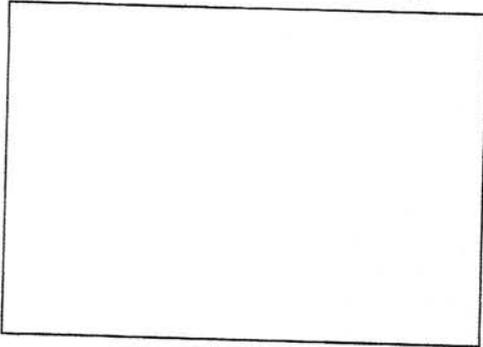
IX. PROPERTY OWNER AUTHORIZATION (if Contact Information, item 2 has been filled out, complete this section)

I, (print or type name of person listed in Contact Information, item 2a) _____, 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 1a) _____ with (print or type name of organization listed in Contact Information, item 1a) _____ 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 DEMLR Stormwater permit reverts back to me, the property owner. As the property owner, it is my responsibility to notify DEMLR 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 NC General Statute 143-215.1 and may result in appropriate enforcement action including the assessment of civil penalties of up to \$25,000 per day, pursuant to NCGS 143-215.6.

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, _____



SEAL

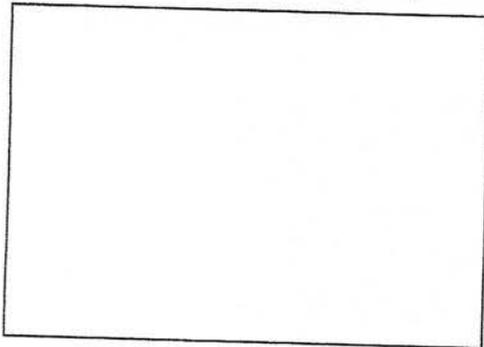
My commission expires _____

X. APPLICANT'S CERTIFICATION

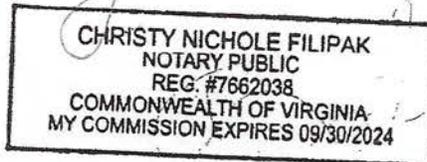
I, (print or type name of person listed in Contact Information, item 1a) Jordan Daneker certify that the information included on this permit application form is, to the best of my knowledge, correct and that the project will be constructed in conformance with the approved plans, that the required deed restrictions and protective covenants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under 15A NCAC 2H .1000 and any other applicable state stormwater requirements.

Signature: _____ Date: 7-24-24

I, Christy Nichole Filipak, a Notary Public for the State of Virginia, City of Chesapeake, do hereby certify that Jordan Daneker personally appeared before me this 24th day of July, 2024, and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal, _____



SEAL



My commission expires 9/30/24

• File an Annual Report/Amend an Annual Report • Upload a PDF Filing • Order a Document Online • Add Entity to My Email Notification List • View Filings • Print a Pre-Populated Annual Report form • Print an Amended a Annual Report form

Limited Liability Company

Legal Name

EVOLVE DESIGN + BUILD, LLC

Information

SosId: 1942470

Status: Current-Active ⓘ

Date Formed: 1/28/2020

Citizenship: Domestic

Annual Report Due Date: April 15th

Current Annual Report Status:

Registered Agent: Daneker, Jordan B.

Addresses

Mailing

261 Maple Road
Maple, NC 27956

Principal Office

261 Maple Road
Maple, NC 27956

Reg Office

261 Maple Road
Maple, NC 27956

Reg Mailing

261 Maple Road
Maple, NC 27956

Company Officials

All LLCs are managed by their managers pursuant to N.C.G.S. 57D-3-20.

Managing Member

Jordan Daneker
261 Maple Rd
Maple NC 27956

Assistant Vice President

Kyle Hatfield
261 Maple Road
Maple NC 27956

Unofficial Document

Currituck County Land Transfer Tax: 5900.00 County Excise Tax: 1985 Sessions Law Chapter 670 (HB 215)

Excise Tax:

Parcel No: 0060-000-0571-0000 & 0060-000-057E

Recording Time, Book and Page:

Mail after recording to: **Brumsey & Brumsey, PLLC, P.O. Box 100, Currituck, NC 27929**

This instrument was prepared by: **William Brumsey, III/mnm file no. 23B61392**

Brief Description for Index:

Crawford Township

NORTH CAROLINA GENERAL WARRANTY DEED

This DEED, made this **23rd** day of **February** **2024** by and between

GRANTOR

GRANTEE

PATRICIA BERRY, widow

EVOLVE DESIGN + BUILD, LLC, A North Carolina Limited Liability Company

**1143 Waterlily Rd.
Coinjock, NC 27923**

**3949 Caratoke Hwy.
Barco, NC 27917**

Enter in appropriate block for each party: name, address, and, if appropriate, character of entity, e.q. corporation or partnership.

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of all of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the said Grantee in fee simple, all that certain lot or parcel of land situated in **Crawford Township, Currituck County, North Carolina**, more particularly described as follows:

Lots 4 and 5 shown on a plat prepared by Sadler Surveying, PLLC entitled "Surveyed for Evolve Design & Build, LLC, Lot 4 & 5 Barco Commercial Lots" recorded in Plat Cabinet S, Slide 95, in the office of the Register of Deeds of Currituck County.

There is excepted from this conveyance any part of the above described parcels conveyed to the North Carolina Department of Transportation by Deed recorded in Deed Book 582, Page 93 and Deed Book 582, Page 95.

All or a portion of the property herein conveyed ___ includes or X does not include the primary residence of a Grantor.

This instrument prepared by: **William Brumsey, III**, a licensed North Carolina attorney. Delinquent taxes, if any, to be paid by the closing attorney to the County tax collector upon disbursement of closing proceeds.

The property hereinabove described was acquired by Grantor by instrument recorded in Book 408 Page 887 And Deed Book 397, Page 38.

A map showing the above described property is recorded in Plat Book S Page 95.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to Grantees in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever except for the exceptions hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

Reservations, restrictions and easements of record.

This conveyance is made subject to any laws, rules, regulations or ordinances, whether local, County, State or Federal, relating to subdivision, development, construction on or use of the property conveyed.

IN WITNESS WHEREOF, the Grantor has hereunto set his hand and seal, or if corporate, has caused this instrument to be signed in its corporate name by its duly authorized officers and its seal to be hereunto affixed by authority of its Board of Directors, the day and year first above written.

By (Corporate Name) Patricia R. Berry (SEAL) PATRICIA BERRY (SEAL) President ATTEST: Secretary (Corporate Seal) (SEAL)

STATE OF NORTH CAROLINA, COUNTY OF CURRITUCK

I, Mandith N. Mansfield a Notary Public do hereby certify

that PATRICIA BERRY personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

Witness my hand and official stamp or seal this 28 day of Feb. 2024.



Mandith N. Mansfield (SEAL) Notary Public

SUPPLEMENT-EZ COVER PAGE

FORMS LOADED

PROJECT INFORMATION

1	Project Name	
2	Project Area (ac)	Evolve Design + Build
3	Coastal Wetland Area (ac)	2.35
4	Surface Water Area (ac)	0
5	Is this project High or Low Density?	0
6	Does this project use an off-site SCM?	High No

COMPLIANCE WITH 02H .1003(4)

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

NUMBER AND TYPE OF SCMs:

11	Infiltration System	
12	Bioretention Cell	1
13	Wet Pond	0
14	Stormwater Wetland	0
15	Permeable Pavement	0
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

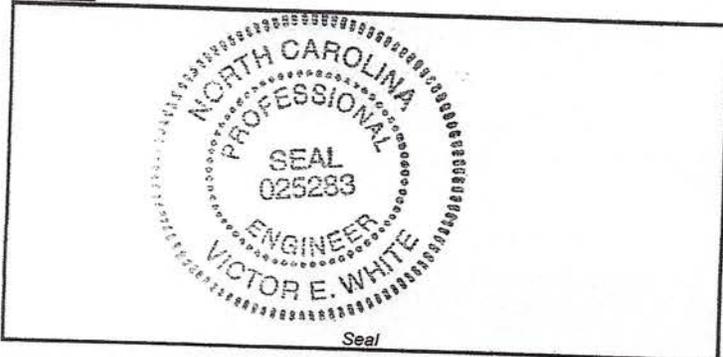
DESIGNER CERTIFICATION

27	Name and Title:	
28	Organization:	Victor White, P.E.
29	Street address:	Landmark Eng. & Env., P.C.
30	City, State, Zip:	P.O. Box 1190
31	Phone number(s):	Kitty Hawk, NC 27949
32	Email:	252-715-3497 victor@landmarkeng.net

Certification Statement:

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

Designer



Signature of Designer

[Handwritten Signature]

Date

7/24/24

DRAINAGE AREAS

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

[CLICK TO LOAD FORM](#)

INFILTRATION SYSTEM

1	Drainage area number	
2	Minimum required treatment volume (cu ft)	A 2252 cf
GENERAL MDC FROM 02H .1050		
3	Is the SCM sized to treat the SWV from all surfaces at build-out?	Yes
4	Is the SCM located away from contaminated soils?	Yes
5	What are the side slopes of the SCM (H:V or enter "Vertical" for trenches)?	4:1
6	Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No
7	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes
8	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes
9	What is the method for dewatering the SCM for maintenance?	Other
10	If applicable, will the SCM be cleaned out after construction?	Yes
11	Does the maintenance access comply with General MDC (8)?	Yes
12	Does the drainage easement comply with General MDC (9)?	N/A
13	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	N/A
14	Is there an O&M Agreement that complies with General MDC (11)?	Yes
15	Is there an O&M Plan that complies with General MDC (12)?	Yes
16	Does the SCM follow the device specific MDC?	Yes
17	Was the SCM designed by an NC licensed professional?	Yes
INFILTRATION SYSTEM MDC FROM 02H .1051		
18	Proposed slope of the subgrade surface (%)	0-2%
19	Are terraces or baffles provided?	No
20	Type of pretreatment:	Other
Soils Data		
21	Was the soil investigated in the footprint and at the elevation of the infiltration system?	Yes
22	SHWT elevation (fmsl)	5.30
23	Depth to SHWT per soils report (in)	2.20
24	Ground elevation at boring in soils report (fmsl)	10.40
25	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	N/A
26	Soil infiltration rate (in/hr)	10.00
27	Factor of safety (FS) (2 is recommended):	2.00
Elevations		
29	Bottom elevation (fmsl)	8 ft
30	Storage elevation (fmsl)	9 ft
31	Bypass elevation (fmsl)	10 ft
For Basins Only		
32	Bottom surface area (ft ²)	1413 ft
33	Storage elevation surface area (ft ²)	8734. ft
For Trenches Only		
34	Length (ft)	
35	Width (ft)	
36	Perforated pipe diameter, if applicable (inches)	
37	Number of laterals	
38	Total length of perforated piping	
39	Stone type, if applicable	
40	Stone porosity (%)	
41	Is stone free of fines?	
42	Is the stone wrapped in geotextile fabric?	
43	Has at least one inspection port been provided?	
Volumes/Drawdown		
44	Design volume of SCM (cu ft)	7286 cf
45	Time to draw down (hours)	48 hrs
ADDITIONAL INFORMATION		
46	Please use this space to provide any additional information about the infiltration system(s):	

INFILTRATION SYSTEM

1	Drainage area number	
2	Minimum required treatment volume (cu ft)	B 1851 cf
GENERAL MDC FROM 02H .1050		
3	Is the SCM sized to treat the SW from all surfaces at build-out?	Yes
4	Is the SCM located away from contaminated soils?	Yes
5	What are the side slopes of the SCM (H:V or enter "Vertical" for trenches)?	6:1
6	Does the SCM have retaining walls, gabion walls or other engineered side slopes?	No
7	Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes
8	Is there an overflow or bypass for inflow volume in excess of the design volume?	Yes
9	What is the method for dewatering the SCM for maintenance?	Other
10	If applicable, will the SCM be cleaned out after construction?	Yes
11	Does the maintenance access comply with General MDC (8)?	Yes
12	Does the drainage easement comply with General MDC (9)?	N/A
13	If the SCM is on a single family lot, does (will?) the plat comply with General MDC (10)?	N/A
14	Is there an O&M Agreement that complies with General MDC (11)?	Yes
15	Is there an O&M Plan that complies with General MDC (12)?	Yes
16	Does the SCM follow the device specific MDC?	Yes
17	Was the SCM designed by an NC licensed professional?	Yes
INFILTRATION SYSTEM MDC FROM 02H .1051		
18	Proposed slope of the subgrade surface (%)	0-2%
19	Are terraces or baffles provided?	No
20	Type of pretreatment:	Other
Soils Data		
21	Was the soil investigated in the footprint and at the elevation of the infiltration system?	Yes
22	SHWT elevation (fmsl)	5.30
23	Depth to SHWT per soils report (in)	2.70
24	Ground elevation at boring in soils report (fmsl)	10.40
25	Is a detailed hydrogeologic study attached if the separation is between 1 and 2 feet?	N/A
26	Soil infiltration rate (in/hr)	10.00
27	Factor of safety (FS) (2 is recommended):	2.00
Elevations		
29	Bottom elevation (fmsl)	
30	Storage elevation (fmsl)	8 ft
31	Bypass elevation (fmsl)	9.6 ft
		10 ft
For Basins Only		
32	Bottom surface area (ft ²)	2715 ft
33	Storage elevation surface area (ft ²)	5526. ft
For Trenches Only		
34	Length (ft)	
35	Width (ft)	
36	Perforated pipe diameter, if applicable (inches)	
37	Number of laterals	
38	Total length of perforated piping	
39	Stone type, if applicable	
40	Stone porosity (%)	
41	Is stone free of fines?	
42	Is the stone wrapped in geotextile fabric?	
43	Has at least one inspection port been provided?	
Volumes/Drawdown		
44	Design volume of SCM (cu ft)	6450 cf
45	Time to draw down (hours)	48 hrs
ADDITIONAL INFORMATION		
46	Please use this space to provide any additional information about the infiltration system(s):	



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949
(252) 715-3497

Evolve Deign + Build
3949 Caratoke Highway, Barco, Currituck County
Stormwater Management Plan
Design Narrative
June 24, 2024



The above referenced project is additional development of an existing commercial business. The business is located on lots 4 and 5 of "Barco Commercial Lots" as recorded with the Currituck County Register of Deeds. The two lots are a total of 102,427 sq.ft. or 2.35 acres. Existing Development at the site is concentrated on Lot 5 with an existing commercial building and associated parking and other infrastructure. The proposed development of the project area consists of an additional "service" building at the rear of lot 5 with associated concrete drive and associated infrastructure. Lot 4 development will consist of a gravel parking area, and a grass storage area with associated infrastructure. Stormwater runoff from the project, both existing and proposed, will be managed by 2 drainage areas, Drainage Area "A" will manage runoff from the majority of the proposed development, with the exception being the roadside concrete walk on Lot 5. Drainage Area "A" also receives runoff from the existing entrance drive from Caratoke Highway. Drainage Area "B" receives Stormwater runoff from the remaining existing impervious surfaces on Lot 5 and the proposed roadside concrete sidewalk on Lot 5. Stormwater runoff generated by the project will be managed by infiltration/detention basins through sheet flow.

Design parameters for the Stormwater Management conservatively assume 95% of runoff from impervious asphalt, concrete, gravel surfaces and buildings will be conveyed to the proposed infiltration/detention basins. The design storms for the system are a 1.5 inch rain event, (State, infiltration), and the runoff difference between the 2 year, 24 hour storm, (pre-development), and 5 year, 24 hour storm, (post-development), (County, detention and infiltration). Due to the soils present and conditions at the site, pre-development runoff at the site is taken as 0, and the design volume of the basins will retain the runoff volume from impervious surfaces generated by the 5 year, 24 hour storm. This storm is listed as a 4.81 inch rain event, according to NOAA Point Precipitation Frequency Estimates for the area. The site is located at 3949 Caratoke Highway, Barco, Currituck County, North Carolina.

The proposed stormwater management plan consists of two drainage areas. For Drainage Area "A". The infiltration area consists of a perimeter swale/basin system as shown on the attached drawings. Proposed impervious coverages consist of the proposed building, (2,705 sq. ft.), proposed concrete, (5,324 sq.ft.), proposed gravel pavement, (6,350 sq. ft.), and existing asphalt, (4,587 sq. ft.). The infiltration system for Drainage Area "A" will provide direct storage of 7,286 cu. ft., equivalent to a 4.85 inch rain event. Storage below the basin and above the Seasonal High Water Table provides additional storage of 4,525 cu.ft. for total storage for a 7.86 inch rain event.

For Drainage Area "B". The infiltration area consists of a rectangular basin with a conveyance swale as shown on the attached drawings. Proposed impervious coverages consist of the existing building, (2,256 sq. ft.), proposed concrete walk, (1,005 sq.ft.), existing asphalt pavement, (11,480 sq. ft.), and existing concrete, (845 sq. ft.). The infiltration system for Drainage Area "A" will provide direct storage of 6,450 cu. ft., equivalent to a 5.22 inch rain event. Storage below the basin and above the Seasonal High Water Table provides additional storage of 2,984 cu.ft. for total storage for a 7.64 inch rain event.

Erosion control measures for the site consist of temporary silt fence and inlet protection as well as permanent stabilization of soils at the site. All slopes are 4H: 1V or flatter, with the majority of slopes being 5H or 6H to 1V slope.



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949
252-715-3497

Evolve Design + Build STORMWATER MANAGEMENT PLAN CALCULATIONS 7/23/24

Infiltration Basin Contour Areas (Calculated/verified by Autocad)

DRAINAGE AREA "A"

Large Infiltration Basin Contour Areas

9.0' - 8,734 sq.ft. (Top of storage)

8.5' - 5,216 sq. ft.

8.0' - 2,827 sq. ft.

7.5' - 1,413 sq. ft. (Bottom of basin)

Large Basin Open Volume

9.0' to 8.5' $0.5 \text{ ft} \times ((8,734 \text{ sq. ft.} + 5,216 \text{ sq. ft.})/2) = 3,488 \text{ cu. ft.}$

8.5' to 8.0' $0.5 \text{ ft} \times (5,216 \text{ sq. ft.} + 2,827 \text{ sq. ft.})/2 = 2,011 \text{ cu. ft.}$

8.0' to 7.5' $0.5 \text{ ft} \times ((2,827 \text{ sq. ft.} + 1,413 \text{ sq. ft.})/2) = 1,060 \text{ cu. ft.}$

Total Large Basin Open Volume = 6,559 cu. Ft.

Small Infiltration Basin Contour Areas

9.0' - 1,550 sq.ft. (Top of storage)

8.5' - 646 sq. ft.

8.0' - 66 sq. ft. (Bottom of basin)

Small Basin Open Volume

9.0' to 8.5' $0.5 \text{ ft} \times ((1,550 \text{ sq. ft.} + 646 \text{ sq. ft.})/2) = 549 \text{ cu. ft.}$

8.5' to 8.0' $0.5 \text{ ft} \times (646 \text{ sq. ft.} + 66 \text{ sq. ft.})/2 = 178 \text{ cu. ft.}$

Total Small Basin Open Volume = 727 cu. Ft.

Total Basins Open Volume Drainage Area "A" = 7,286 cu. Ft.

Drainage Area "A" Impervious coverages runoff: (post Development)

Buildings: 2,705 sq. ft. (.95 runoff coefficient) = 2,570 sq. ft. (Effective area)

Concrete: 5,324 sq. ft. (.95 runoff coefficient) = 5,058 sq. ft. (Effective area)

Asphalt: 4,587 sq. ft. (.95 runoff coefficient) = 4,358 sq. ft. (Effective area)

Gravel 6,350 sq. ft. (.95 runoff coefficient) = 6,032 sq. ft. (Effective area)

Total Effective Impervious Area - D.A. "A" = 18,018 sq. ft. = 0.4136 acres

Volume required to retain 1.5 inch design storm (State) = $18,018(1.5/12) = 2,252 \text{ cu. Ft.}$

Volume required to retain 4.81 inch design storm (County) = $18,018(4.81/12) = 7,222 \text{ cu. Ft.}$

Therefore, Total Direct Storage to elevation 9.0' is in excess of the 4.81 inch County Design Storm.

Additional Storage in Soil Voids above the Seasonal High Water Table, (S.H.W.T.) = $(8,734 \text{ sq. ft.} + 1,550 \text{ sq. ft.}) \times 2.2 \text{ ft.} \times 0.20 = \underline{4,525 \text{ cu. Ft.}}$

Therefore, Total Direct and Indirect Storage to elevation 9.0' is equal to precipitation from a 7.86 inch Storm Event.



DRAINAGE AREA "B"

Infiltration Basin Contour Areas

9.6' - 5,526 sq. ft. (Top of storage @ Overflow Elevation)

9.0' - 4,293 sq. ft.

8.0' - 2,715 sq. ft. (Bottom of basin)

Basin Open Volume

9.6' to 9.0' $0.6 \text{ ft} \times ((5,526 \text{ sq. ft.} + 4,293 \text{ sq. ft.})/2) = 2,946 \text{ cu. ft.}$

9.0' to 8.0' $1.0 \text{ ft} \times (4,293 \text{ sq. ft.} + 2,715 \text{ sq. ft.})/2 = 3,504 \text{ cu. ft.}$

Total Basin Open Volume Drainage Area "B" = **6,450 cu. Ft.**

Drainage Area "B" Impervious coverages runoff: (post Development)

Buildings: 2,256 sq. ft. (.95 runoff coefficient) = 2,143 sq. ft. (Effective area)

Concrete: 1,850 sq. ft. (.95 runoff coefficient) = 1,758 sq. ft. (Effective area)

Asphalt: 11,480 sq. ft. (.95 runoff coefficient) = 10,906 sq. ft. (Effective area)

Total Effective Impervious Area - D.A. "B" = 14,807 sq. ft. = 0.340 acres

Volume required to retain 1.5 inch design storm (State) = $14,807(1.5/12) = 1,851 \text{ cu. Ft.}$

Volume required to retain 4.81 inch design storm (County) = $14,807/(4.81/12) = 5,935 \text{ cu. Ft.}$

Therefore, Total Direct Storage to elevation 9.6' is in excess of the 4.81 inch County Design Storm.

Additional Storage in Soil Voids above the Seasonal High Water Table, (S.H.W.T.) =
 $(5,526 \text{ sq. ft.}) \times 2.7 \text{ ft.} \times 0.20 = \underline{\underline{2,984 \text{ cu. Ft.}}}$

Therefore, Total Direct and Indirect Storage to elevation 9.6' is equal to precipitation from a 7.64 inch Storm Event.



LANDMARK ENGINEERING & ENVIRONMENTAL, P.C.

P.O. Box 1190
KITTY HAWK, NC 27949
252-715-3497

Subject: Field evaluation of soil characteristics for Evolve Design & Build, located at 3949 Caratoke Highway, Barco, Currituck County, North Carolina.

The above site was visited by representatives of Landmark Engineering & Environmental, P.C. On July 9, 2024 to obtain information on soil profile characteristics in the proposed Stormwater Infiltration Basin Area for Drainage area "B" at the site and corroborate findings from Protocol Sampling Service's investigation of the soils at the site from March 27, 2024. The findings are as follows:

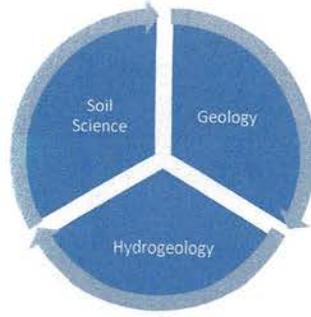
Physical observation and written profiles of the soils were completed during a single soil boring advanced at the site. The soil profile encountered during the boring is listed below as follows:

Boring #1 (ground Elevation 10.4' msl +/-)

0"-12"	Dark Brown - Brown silty fine sand - (SP-SM), (7.5YR 4/4). common fine root matter
12"-22"	Light Yellowish Brown fine sand - (SP), (10YR 6/4). some fine root matter
22"-50"	Brownish Yellow fine sand with some clay and silt - (SP-SC) (10YR 6/8), clay content gradually decreasing with depth throughout profile
50"-64"	Brownish Yellow silty fine sand - (SP-SM) (10YR 6/8), slightly moist starting at 58"-60", moisture content increasing with depth to 66". Faint SHWT indicators detected at 62"-64"
64"-74"	Light Yellowish Brown fine sand - (SP) (10YR 6/4), moisture increasing with depth. SHWT indicators detected at 64"-66" No static water detected at end of boring (74" BLS)

SHWT conservatively estimated to be at 5.3' msl (NAVD 88)

Based on site investigations, the soils present at the site are consistent with a State Loamy Fine Sand, (StA). This classification corresponds well with the USDA's "Soil Survey of Currituck County North Carolina". Soils encountered during site investigations have estimated infiltration rates of 10 to in excess of 20"/hr. A Conservative Seasonal High Water Table, (SHWT) elevation of 5.3' msl, (NAVD 88 Datum), was calculated based on the boring at the site and Protocol Sampling's previous investigation. Using this conservative estimate of the SHWT, the bottom of the infiltration basin has a 2 + foot separation from the SHWT.



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"

Protocolsampling@yahoo.com
Environmentalservicesnc.com

April 2, 2024

Mr. Thomas Kwasny, P. E.
Civil Engineering and Land Planning Consultants
198 Augusta Drive
Grandy, North Carolina 27939

Re: **Soil Inspection – Stormwater – Evolve Design + Build**
0 Caratoke Highway
Barco, Currituck County, North Carolina
Protocol Project No. 24-56

Dear Mr. Kwasny:

The subject property that will be developed as a warehouse facility was inspected by Protocol Sampling Service, Inc., personnel Wednesday, March 27, 2024. Protocol personnel inspected the lot by advancing two (2) soil borings for lithologic descriptions, depth to the seasonal high-water table and the depth to static water table in proposed storm water basin "A".

The infiltration area was found to be flat (slope <1.0%) with surveyed elevations of 8.6 to 8.9 feet-msl. The seasonal high-water table was found from 42 to 43 inches below land surface and the static water table was found from depths of 54 to 55-inches below the soil surface across the study area. The soil matched the State soil series profile with excellent structure (granular), consistence (friable) and texture (loamy sand) with a seasonal high water table elevation of 5.10 to 5.32' msl. Given a 20% porosity value for the loamy sand surface soils and an infiltration rate of at least 20.0-inches/hour, which overlies a sandy clay loam with greater than 30% porosity with an infiltration rate of 10.0-inches/hour, the infiltration area should easily accept any storm water flow from the impervious areas.

Please call me at (919) 210-6547 if you have any questions or comments.

Sincerely,
Protocol Sampling Service, Inc.

David E. Meyer, N.C.L.S.S.
President



cc: file

Soil Profile Description
0 Caratoke Highway – Profile 1&2

- A 0 – 8 inches; dark brown (7.5YR 3/3) loamy fine sand; granular; friable.
- E 8 – 14 inches; yellowish brown (10YR 5/4) loamy sand; granular; friable.
- Bt 14 – 36 inches; brownish yellow (10YR 6/8) sandy clay loam; subangular blocky; friable.
- BC 36 – 42 inches; brownish yellow (10YR 6/8) and very pale brown (10YR 7/4) sandy loam; subangular blocky; friable.
- C1 42 – 60 inches; brownish yellow (10YR 6/8) loamy sand with strong brown (7.5YR 5/6) concentrations and gray (10YR 6/1) depletions; single grained; loose
- C2 60 – 72 inches; light yellowish brown (10YR 6/4) fine sand; single grained; loose

Soil Series: **State**
Landscape: Coastal Plain
Landform: terrace
Parent Material: Marine sediments
Drainage Class: well drained
Particle Size Class: sandy
Temperature Regime: thermic
Subgroup Classification: Typic Hapludult
Examination Method: auger boring
Date: March 27, 2024
Weather: Overcast, 55°
Investigators: David Meyer
Shwt: 42-43"
Measured water table depth: 54-55"

Soil Map—Currituck County, North Carolina
(Evolve Design + Build)



Soil Map may not be valid at this scale.

Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.



MAP LEGEND

- Area of Interest (AOI)**
 - Area of Interest (AOI)
- Soils**
 - Soil Map Unit Polygons
 - Soil Map Unit Lines
 - Soil Map Unit Points
- Special Point Features**
 - Blowout
 - Borrow Pit
 - Clay Spot
 - Closed Depression
 - Gravel Pit
 - Gravelly Spot
 - Landfill
 - Lava Flow
 - Marsh or swamp
 - Mine or Quarry
 - Miscellaneous Water
 - Perennial Water
 - Rock Outcrop
 - Saline Spot
 - Sandy Spot
 - Severely Eroded Spot
 - Sinkhole
 - Slide or Slip
 - Sodlic Spot
- Water Features**
 - Streams and Canals
- Transportation**
 - Rails
 - Interstate Highways
 - US Routes
 - Major Roads
 - Local Roads
- Background**
 - Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Currituck County, North Carolina
Survey Area Data: Version 23, Sep 13, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 18, 2022—May 31, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
StA	State fine sandy loam, 0 to 2 percent slopes	7.8	99.1%
To	Tomotley fine sandy loam	0.1	0.9%
Totals for Area of Interest		7.9	100.0%

Operation & Maintenance Agreement

Project Name: Evolve Design + Build
Project Location: 3949 Caratoke Highway, Barco, Currituck County

Cover Page

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

The SCM(s) on this project include (check all that apply & corresponding O&M sheets will be added automatically):

Infiltration Basin	Quantity: 2	Location(s):
Infiltration Trench	Quantity: 0	Location(s):
Bioretention Cell	Quantity: 0	Location(s):
Wet Pond	Quantity: 0	Location(s):
Stormwater Wetland	Quantity: 0	Location(s):
Permeable Pavement	Quantity: 0	Location(s):
Sand Filter	Quantity: 0	Location(s):
Rainwater Harvesting	Quantity: 0	Location(s):
Green Roof	Quantity: 0	Location(s):
Level Spreader - Filter Strip	Quantity: 0	Location(s):
Proprietary System	Quantity: 0	Location(s):
Treatment Swale	Quantity: 0	Location(s):
Dry Pond	Quantity: 0	Location(s):
Disconnected Impervious Surface	Present: No	Location(s):
User Defined SCM	Present: No	Location(s):
Low Density	Present: No	Location(s):
		Type:

[CLICK TO UPDATE O&M MANUAL](#)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed for each SCM above, and attached O&M tables. I agree to notify NCDEQ of any problems with the system or prior to any changes to the system or responsible party.

Responsible Party: Mr. Jordan Daneker
 Title & Organization: Managing Member, Evolve Design + Build, LLC
 Street address: 3949 Caratoke Highway
 City, state, zip: Barco, NC 27917
 Phone number(s):
 Email:

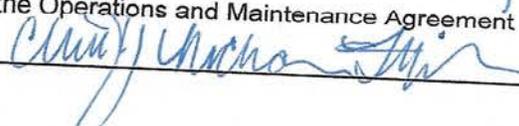
Signature: 

Date: 7-24-24

I, Christy Nichole Filipak, a Notary Public for the State of Virginia
 County of Chesapeake

do hereby certify that Jordan Daneker
 personally appeared before me this 24th day of July 2024 and

acknowledge the due execution of the Operations and Maintenance Agreement.

Witness my hand and official seal, 



My commission expires 9/30/24

Infiltration Basin Maintenance Requirements

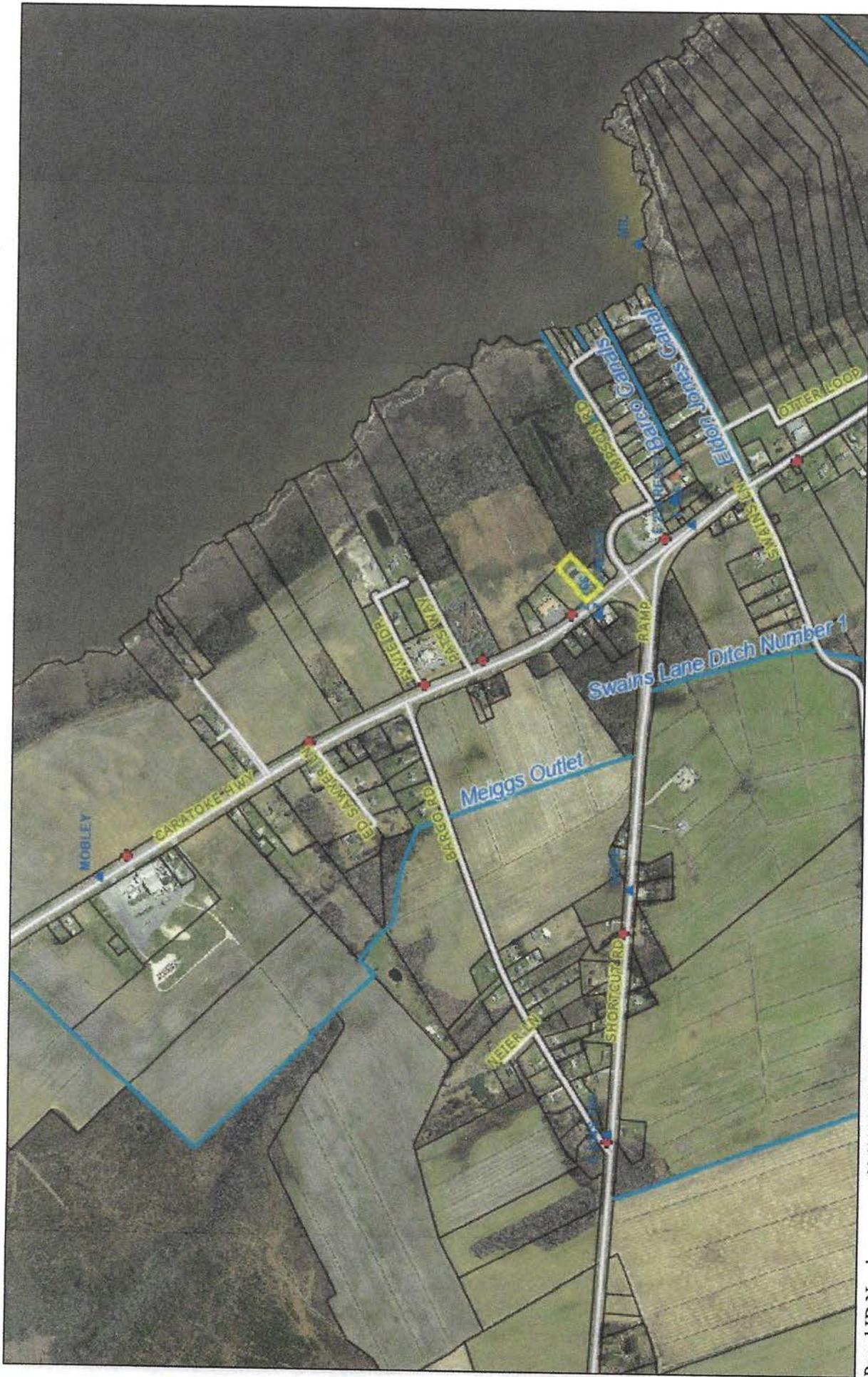
Important operation and maintenance procedures:

- The drainage area will be carefully managed to reduce the sediment load to the infiltration basin.
- No portion of the infiltration basin will be fertilized after the initial fertilization that is required to establish the vegetation. Lime may be allowed if vegetation is planted on the surface of the infiltration basin and a soil test shows that it is needed.
- The vegetation in and around the basin will be maintained at a height of four to six inches.

After the infiltration basin is established, it will be inspected **quarterly and within 24 hours after every storm event greater than 1.0 inches (or 1.5 inches if in a Coastal County)**. Records of operation and maintenance shall be kept in a known set location and shall be available upon request.

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

SCM element:	Potential problem:	How to remediate the problem:
The entire infiltration basin	Trash/debris is present.	Remove the trash/debris.
The grass filter strip or other pretreatment area	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, plant ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Sediment has accumulated to a depth of greater than three inches.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
The flow diversion structure (if applicable)	The structure is clogged.	Unclog the conveyance and dispose of any sediment in a location where it will not cause impacts to streams or the SCM.
	The structure is damaged.	Make any necessary repairs or replace if damage is too much for repair.
The inlet device	The inlet pipe is clogged (if applicable).	Unclog the pipe and dispose of any sediment in a location where it will not cause impacts to streams or the SCM.
	The inlet pipe is cracked or otherwise damaged (if applicable).	Repair or replace the pipe.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary and provide erosion control devices such as reinforced turf matting or riprap to avoid future erosion problems.
	Stone verge is clogged or covered in sediment (if applicable).	Remove sediment and clogged stone and replace with clean stone.
The basin	More than four inches of sediment has accumulated.	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
	Erosion of the basin surface has occurred or riprap is displaced.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Water is standing more than three days after a storm event.	Replace the top few inches of soil to see if this corrects the standing water problem. If not, consult an appropriate professional for a more extensive repair.



Parcel ID Number: 0060000057E0000

Property Address: 3949 BARCO 27917

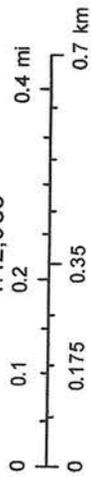
Property Owner: EVOLVE DESIGN + BUILD LLC

CARATOKE HWY

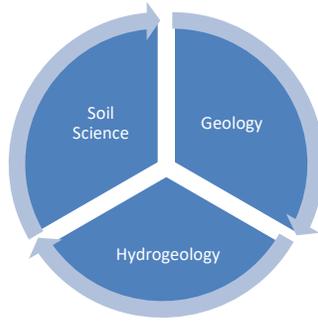
Map Date: July 23, 2024



1:12,963



This map should be used for general reference purposes only. Currituck County assumes no legal liability for the information shown on this map. This map is not a survey.



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"

Protocolsampling@yahoo.com
Environmentalservicesnc.com

April 2, 2024

Mr. Thomas Kwasny, P. E.
Civil Engineering and Land Planning Consultants
198 Augusta Drive
Grandy, North Carolina 27939

Re: **Soil Inspection – Stormwater – Evolve Design + Build
0 Caratoke Highway
Barco, Currituck County, North Carolina
Protocol Project No. 24-56**

Dear Mr. Kwasny:

The subject property that will be developed as a warehouse facility was inspected by Protocol Sampling Service, Inc., personnel Wednesday, March 27, 2024. Protocol personnel inspected the lot by advancing two (2) soil borings for lithologic descriptions, depth to the seasonal high-water table and the depth to static water table in proposed storm water basin "A".

The infiltration area was found to be flat (slope <1.0%) with surveyed elevations of 8.6 to 8.9 feet-msl. The seasonal high-water table was found from 42 to 43 inches below land surface and the static water table was found from depths of 54 to 55-inches below the soil surface across the study area. The soil matched the State soil series profile with excellent structure (granular), consistence (friable) and texture (loamy sand) with a seasonal high water table elevation of 5.10 to 5.32' msl. Given a 20% porosity value for the loamy sand surface soils and an infiltration rate of at least 20.0-inches/hour, which overlies a sandy clay loam with greater than 30% porosity with an infiltration rate of 10.0-inches/hour, the infiltration area should easily accept any storm water flow from the impervious areas.

Please call me at (919) 210-6547 if you have any questions or comments.

Sincerely,
Protocol Sampling Service, Inc.



David E. Meyer, N.C.L.S.S.
President

cc: file

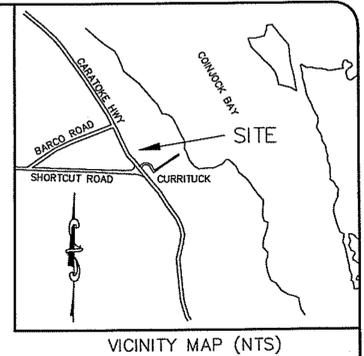
Soil Profile Description
0 Caratoke Highway – Profile 1&2

- A 0 – 8 inches; dark brown (7.5YR 3/3) loamy fine sand; granular; friable.
- E 8 – 14 inches; yellowish brown (10YR 5/4) loamy sand; granular; friable.
- Bt 14 – 36 inches; brownish yellow (10YR 6/8) sandy clay loam; subangular blocky; friable.
- BC 36 – 42 inches; brownish yellow (10YR 6/8) and very pale brown (10YR 7/4) sandy loam; subangular blocky; friable.
- C1 42 – 60 inches; brownish yellow (10YR 6/8) loamy sand with strong brown (7.5YR 5/6) concentrations and gray (10YR 6/1) depletions; single grained; loose
- C2 60 – 72 inches; light yellowish brown (10YR 6/4) fine sand; single grained; loose

Soil Series: **State**
Landscape: Coastal Plain
Landform: terrace
Parent Material: Marine sediments
Drainage Class: well drained
Particle Size Class: sandy
Temperature Regime: thermic
Subgroup Classification: Typic Hapludult
Examination Method: auger boring
Date: March 27, 2024
Weather: Overcast, 55°
Investigators: David Meyer
Shwt: 42-43”
Measured water table depth: 54-55”

Doc No: 357745
 Recorded: 03/05/2024 10:59:28 AM
 Fee Amt: \$21.00 Page 1 of 1
 Currituck County, North Carolina
 Debra A. Harris, Register of Deeds
 BK 5 PG 95-95 (1)

Unofficial Document
 Unofficial Document
 Unofficial Document



N/F
 DEBORAH A. BAIN
 D.B. 519, PG. 316

NC GRID COORDINATES
 N 973,541.978'
 E 2,890,180.135'
 NAD 83 (2011)

SURVEY PLAT BY QUIBLE & ASSOC.
 (RECORDED AT P.C.-I, SL. 208)
 SHOWS A POSSIBLE DEEDED
 OVERLAP ALONG THIS PROPERTY
 LINE. HOWEVER, NO PHYSICAL
 EVIDENCE OF AN OVERLAP WAS
 FOUND DURING THIS SURVEY

N/F
 ROBERT D. WHITE
 P.C.-I, SL. 208
 D.B. 1734, PG. 583

NOTES:
 LOT 5 ADDRESS: 3949 CARATOKE HIGHWAY
 LOT 4 AREA: 49,162 SQ FT
 LOT 5 AREA: 53,265 SQ FT
 -BY COORDINATE METHOD
 EXISTING
 LOT 5 COVERAGE: 29,657 SQ FT (47.3%)
 FIRM REFERENCE:
 3720 8987 00K
 CURRENT FLOOD ZONE: *X*

SETBACKS SHOWN ARE AS PER CURRITUCK
 COUNTY ZONING. THEY MUST BE VERIFIED
 PRIOR ANY PLANNING OR CONSTRUCTION
 THIS SURVEY IS BASED ON EXISTING
 FIELD EVIDENCE AND EXISTING RECORDS
 THIS SURVEY IS SUBJECT TO ANY FACTS
 DISCLOSED IN A FULL AND ACCURATE
 TITLE SEARCH

I, MICHAEL D. SADLER, P.L.S., DO CERTIFY
 THAT THIS PLAT IS OF AN ACTUAL FIELD
 LAND SURVEY PERFORMED UNDER MY
 SUPERVISION; THAT THE ERROR OF
 CLOSURE AS CALCULATED BY LATITUDES
 AND DEPARTURES IS AT LEAST 1:10000;
 WITNESS MY HAND AND SEAL THIS
 26TH DAY OF JANUARY, 2024.
Michael D. Sadler
 P.L.S. L-5029



- 1.) CLASS OF SURVEY: SUBURBAN
- 2.) POSITIONAL ACCURACY: 0.01 HORIZ.; 0.05' VERT.
- 3.) TYPE OF GPS FIELD PROCEDURE: IFC NETWORK RTK
- 4.) DATES OF SURVEY: 1-24-24
- 5.) DATUM/EPOCH: NAD 83 / 2011
- 6.) PUBLISHED/FIXED CONTROL USED: NCGS MOBLEY 2005
- 7.) GEOID MODEL: 2018
- 8.) COMBINED GRID FACTOR: 1.00007231
- 9.) UNITS: SURVEY FEET

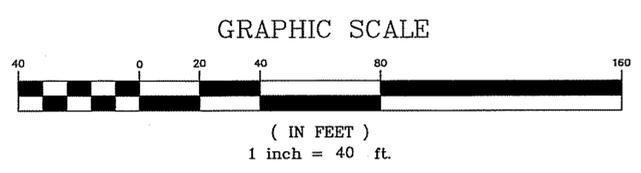
- LEGEND:**
- EX. REBAR
 - ⊙ NCDOT R/W DISC
 - ⊙ EX. PINCH PIPE
 - REBAR SET
 - NCGS MOBLEY 2005
 - ⊙ FIRE HYDRANT
 - ⊙ PHONE PEDESTAL
 - ⊙ CABLE TV PEDESTAL
 - ⊙ MV MONUMENT
 - ⊙ DROP INLET
 - ⊙ SPEED LIMIT SIGN
 - ⊙ GUY WIRE
 - ⊙ POWER POLE
 - ⊙ HANDI-CAP SIGN
 - x 7.7 GROUND ELEVATION NAVD 88

LINE TABLE:
 L-1: N32°10'55"W 16.37'

NCGS MOBLEY 2005
 N 977,241.84'
 E 2,887,591.85'
 NAD 83 (2011)

EXISTING MONUMENT
 FROM ORIGINAL
 RIGHT-OF-WAY
 P.C.-D, SL. 114

RIGHT-OF-WAY DETERMINED BY
 EXISTING MONUMENTATION IN
 CONJUNCTION WITH THE RECORDED
 REFERENCES GIVEN



SADLER SURVEYING, PLLC 502 FIRST FLIGHT LANE, KILL DEVIL HILLS, NC 27948 PHONE: 252-423-1317 P-2511 <small>ALTERATION OF THIS DOCUMENT IS PROHIBITED</small>			
SURVEYED FOR: EVOLVE DESIGN + BUILD, LLC			
LOT 4 & LOT 5, BARCO COMMERCIAL LOTS <small>Crawford Township, County, North Carolina</small>			
FILE #: 24-001	DATE: 1-24-24	REC. REFERENCES: P.C.-F, SL. 181 ; P.C.-D, SL. 114 P.C.-I, SL. 208; D.B. 408, PG. 887; D.B. 397, PG. 38	SHEET: 1 OF 1
DWG #: 24011P	SCALE: 1" = 40'	PIN #: LOT 4: 0060-000-057D-0000 LOT 5: 0060-000-057E-0000	