

ALBEMARLE REGIONAL HEALTH SERVICES

369544

Applicant:

Paul Henriques, Premiere Contracting
PO Box 269
Kitty Hawk, NC 27949

Owner:

Cynthia Spain
112 Poplar Haven Road
Poplar Branch, NC 27965

Site Location:

4511 Caratoke Hwy
Coinjock, NC 27923

GPD: **LTAR:** 0.500 **Classification:** PS w/Fill

If unsuitable, the site may be reclassified to provisionally suitable with the following modification(s):

To obtain an Authorization to Construct:

Comments:

- **Before a septic can be properly sized, plans will be submitted showing proposed size of bakery and proposed use.
- ** Seasonal Soil Wetness was determined to be 22" towards front by highway and 18" towards rear of lot
- **Permit fee will be based on proposed daily flow once determined
- **Management Entity paperwork may be needed depending on type system designed
- **Proposed 2 bedroom residential above bakery will add 240gpd to daily flow

EHS: 
Carver, Kevin

Date: 02/24/2022

THIS APPROVAL WILL BECOME VOID AFTER 12 MONTHS AND A NEW APPLICATION WILL BE NECESSARY.

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



ALBEMARLE REGIONAL HEALTH SERVICES
ON-SITE WASTE WATER SYSTEM APPLICATION

County: CURRITUCK

File#

Parcel Identification Number (Site Evaluations only): 00700000 22J0000

Type of Service Requested	Fee
<input checked="" type="checkbox"/> Site Evaluation/ Improvement Permit for Wastewater System	\$ 300.00
<input type="checkbox"/> Existing Wastewater System Inspection	\$ 100.00
<input type="checkbox"/> Construction Authorization for Repair of Wastewater System	\$ 100.00
<input type="checkbox"/> Construction Authorization Permit *If Approved*	\$ 400.00 - 450.00
<input type="checkbox"/> Construction Authorization Permit *If Approved* (5 BR+ fee varies based on system type)	\$ 550.00 +
<input type="checkbox"/> Permit Redraw	\$ 50.00

Applicant Information

Name: CYNTHIA J. SPAIN
 Mailing Address: 112 POPLAR HAVEN ROAD
 City/State/Zip: POPLAR BRANCH NC 27963
 Telephone Number: 252-619-0421
 Email: mrobinson@orbengineering.com (AGENT)

Property Owner Information Check if same as applicant

Name: _____
 Mailing Address: _____
 City/State/Zip: _____
 Telephone Number: _____
 Email: _____

Property Information

Location	<u>Lot 1 CARCER/BRUNSER</u> <u>DIVISION. LOT BETWEEN</u> <u>4495 and 4511 CARATOKH</u> <u>Hwy, COINJOCK</u>
Date property was originally deeded and recorded	<u>P.C. B SL. 384</u> <u>8 / 17 / 88</u>
Size: (acres)	<u>1.69 ac.</u>
Water Supply	<input checked="" type="checkbox"/> Public supply <input type="checkbox"/> Private Well
Map submitted	<input type="checkbox"/> Survey Plat <input checked="" type="checkbox"/> Site Plan

Building Information

Type of Facility	<input type="checkbox"/> Mobile Home <input type="checkbox"/> House <input type="checkbox"/> Business (domestic strength only) <input checked="" type="checkbox"/> Other <u>RESTAURANT</u>
Number of Bedrooms	<u>DESIGN FLOW</u> <u>SEE NOTE 11</u> <u>1640 gpd</u>
Number of Occupants	<u>N/A</u>
For Repairs, please state the nature of problem	<u>N/A</u> _____ _____

For Existing System Inspection; List size/type of new construction:

NEW LPP SYSTEM FOR NEW RESTAURANT

(See Back)

The applicant shall notify ARHS upon submittal of this application if any of the following apply to the property in question. If "YES," the applicant must attach supporting documentation and show location(s) on the submitted site plan/plat.	YES	NO
Does the site contain any jurisdictional wetlands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the site contain any wastewater systems?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is any wastewater going to be generated on the site other than domestic sewage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are there any easements or right of ways on this property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is this facility subject to approval by another public agency?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Are there any wells, springs, or existing water lines on this property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

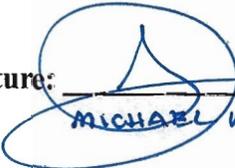
INITIAL

- MD 1. THE APPLICANT SHALL MARK THE SITE AND MAKE THE SITE ACCESSIBLE FOR A SITE EVALUATION.
- RA 2. A \$60.00 REVISIT FEE WILL BE CHARGED IF THE PROPERTY IS UNIDENTIFIABLE OR INACCESSIBLE DUE TO VEGETATIVE OVERGROWTH, LOCKED GATES, LOOSE DOGS, ETC.
- WA 3. IF THE INFORMATION SUBMITTED BY THE APPLICANT IS FOUND TO BE INCORRECT, OR IF THE SITE AND SOIL CONDITIONS ARE ALTERED, ANY IMPROVEMENT PERMIT SHALL BECOME INVALID.

PLEASE ALLOW UP TO 2 WEEKS FOR COMPLETION.

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to the property to conduct the services requested.

Date: 10-11-23

Owner or Agent Signature:  MICHAEL W. ROBINSON P.E. (AGENT)

Mail To: ARHS Environmental Health; P.O. Box 189; Elizabeth City, NC 27907

Bertie Co. P: (252) 794-5303 F: (252) 794-5361	Camden Co. P: (252) 338-4460 F: (252) 338-4475	Chowan Co. P: (252) 482-1199 F: (252) 482-6020	Currituck Co. P: (252) 232-6603 F: (252) 232-1912	Gates Co. P: (252) 357-1380 F: (252) 357-2251	Hertford Co. P: (252) 862-4054 F: (252) 862-4263	Pasquotank Co. P: (252) 338-4490 F: (252) 337-7921	Perquimans Co. P: (252) 426-2100 F: (252) 426-2104
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October 24, 2023

Currituck County Planning & Zoning
Currituck Historic Courthouse
153 Courthouse Road, Suite 110
Currituck, North Carolina 27929

Re: Stormwater Management Design Submittal
Major Stormwater Plan
Cindy's Kitchen
Corolla, Currituck County, NC

Dear Planning Staff;

On behalf of Cindy's Kitchen, we hereby submit for your review a Major Stormwater Plan application package for the stormwater management system design for the Cindy's Kitchen project.

Three copies of the following items are included with and shall be considered part of this submittal package:

1. Major Stormwater Plan Form SW-002
2. NCDEQ Stormwater Permit Application
3. NCDEQ Operation & Maintenance Agreement
4. Currituck County Stormwater Management Plan Narrative & Calculations

This package is being submitted with a matching Construction Plans TRC Submittal, and so additional Construction Plans are not included under this transmittal (you will receive your plans under the TRC submittal).

One (1) Solid State USB memory drive containing .pdf of all above reference documents is also included for your files

At your earliest convenience, please review the attached information for compliance. If you have any questions, or if you require any additional information, please do not hesitate to contact me at (252) 202-3803.

Sincerely,



David A. Deel, P.E.

Encl: as stated



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: Cynthia J. Spain
Address: 112 Poplar Haven Road
Poplar Branch, NC 27965
Telephone: 252-619-0421
E-Mail Address: cindy@cindyskitchennc.com

PROPERTY OWNER:

Name: Cynthia J. Spain
Address: 112 Poplar Haven Road
Poplar Branch, NC 27965
Telephone: 252-619-0421
E-Mail Address: cindy@cindyskitchennc.com

Property Information

Physical Street Address: 1bd Caratoke Highway, Coinjock, NC
Parcel Identification Number(s): 0070000022J0000
FEMA Flood Zone Designation: Zone X

Request

Project Description: Proposed 48 seat restaurant on 1.69 acre undeveloped parcel

Total land disturbance activity: 1 1.34 ac ~~sf~~ Calculated volume of BMPs: 11,113 cf ~~sf~~
Maximum lot coverage: 20,946 ~~sf~~ Proposed lot coverage: 20,946 ~~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.

Cynthia J. Spain
Property Owner(s)/Applicant

1-10-23
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: Cindy's Kitchen

Applicant/Property Owner: Cynthia J. Spain

Minor Stormwater Plan Design Standards Checklist		
General		
1	Property owner name and address.	DAD
2	Site address and parcel identification number.	DAD
3	North arrow and scale to be 1" = 100' or larger.	DAD
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.	DAD
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.	DAD
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.	DAD
8	Limits of all proposed fill, including the toe of fill slope and purpose of fill.	DAD
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.	DAD
10	Existing and proposed drainage patterns, including direction of flow.	DAD
11	Location, capacity, design plans (detention, retention, infiltration), and design discharge of existing and proposed stormwater management features.	DAD
12	Elevation of the seasonal high water level as determined by a licensed soil scientist.	DAD
13	Plant selection.	DAD
Permits and Other Documentation		
14	NCDENR stormwater permit application (if 10,000sf or more of built upon area).	DAD
15	NCDENR erosion and sedimentation control permit application (if one acre or more of land disturbance).	DAD
16	NCDENR coastal area management act permit application, if applicable.	N/A
17	Stormwater management narrative with supporting calculations.	DAD
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	N/A
20	Design spreadsheets for all BMPs (<i>Appendix F – Currituck County Stormwater Manual</i>).	DAD**
21	Detailed maintenance plan for all proposed BMPs.	DAD

"SIMPLE VOLUME CALCULATION" utilized to determine peak flows for pre-and post- construction conditions. Therefore Forms SW-003 and SW-004 do not apply.

** Deel Engineering Design Spreadsheet is included in Appendix D of the Stormwater Narrative

Certificate	
22	<p>The major stormwater plan shall contain the following certificate:</p> <p>I, _____, owner/agent hereby certify the information included on this and attached pages is true and correct to the best of my knowledge.</p> <p>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.</p> <p>Date: _____ Owner/Agent: _____</p>
	DAD

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: Cindy's Kitchen

Applicant/Property Owner: Cynthia J. Spain

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

Comments

"SIMPLE VOLUME CALCULATION" utilized to determine peak flows for pre-and post-construction conditions. Therefore Forms SW-003 and SW-004 do not apply.

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

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

Cindy's Kitchen

2. Location of Project (street address):

(tbd) Croatan Highway

City: Coinjock

County: Currituck

Zip: 27965

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

Project is located on the east side of NC 158 approximately 570 feet north

of the intersection of NC 158 and Coinjock Acres Drive

4. Latitude: 36° 21' 17.07" N Longitude: 75° 57' 35.14" W of the main entrance to the project.

II. PERMIT INFORMATION:

1. a. Specify whether project is (check one): New Modification Renewal w/ Modification†

†Renewals with modifications also requires SWU-102 - Renewal Application Form

b. 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

2. Specify the type of project (check one):

Low Density High Density Drains to an Offsite Stormwater System Other

3. 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, _____.

4. a. 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: 1.69 ac of Disturbed Area

NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts _____

b. 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: _____

5. 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: Cynthia J. Spain

Signing Official & Title: Cynthia J. Spain

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

Street Address: 112 Poplar Haven Road

City: Poplar Branch State: NC Zip: 27965

Mailing Address (if applicable): same as above

City: State: Zip:

Phone: (252) 619-0421 Fax: ()

Email: cindy@cindyskitchennnc.com

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

- [X] 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: same as above

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:

Signing Official & Title:

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

Mailing Address:

City: State: Zip:

Phone: () Fax: ()

Email:

4. Local jurisdiction for building permits: Currituck County

Point of Contact: Donna Voliva, Asst. Planning Director Phone #: (252) 232-6032

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

AutoCAD Area Routine

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.

Initials

1. *Original and one copy* of the Stormwater Management Permit Application Form. _____
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 the project. This is required in addition to the brief summary provided in the Project Information, item 1. _____
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 ½ mile of the site boundary, include the ½ 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" x 11" 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: 17 Page No: 94
 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: David A. Deel, P.E.

Consulting Firm: Deel Engineering, PLLC

Mailing Address: P.O. Box 3901

City: Kill Devil Hills State: NC Zip: 27948

Phone: (252) 202-3803 Fax: ()

Email: dadeeleng@gmail.com

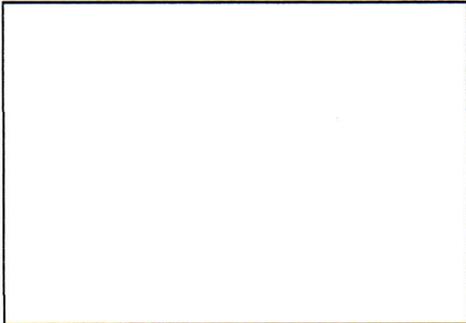
IX. PROPERTY OWNER AUTHORIZATION (if Contact Information, item 2 has been filled out, complete this section)

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

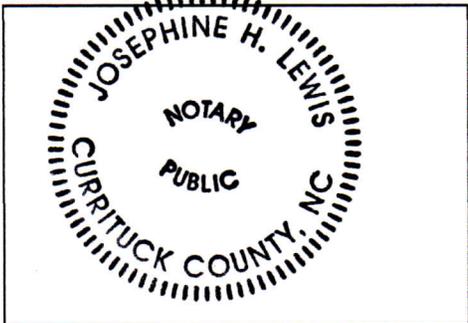
My commission expires _____

X. APPLICANT'S CERTIFICATION

I, (print or type name of person listed in Contact Information, item 1a) Cynthia J. Spain 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: Cynthia J. Spain Date: 1-12-23

I, Josephine H. Lewis, a Notary Public for the State of North Carolina County of Currituck, do hereby certify that Cynthia J. Spain personally appeared before me this 12th day of January, 2023 and acknowledge the due execution of the application for a stormwater permit. Witness my hand and official seal, Josephine H. Lewis



SEAL

My commission expires 11-9-2024

Operation & Maintenance Agreement

Project Name: Cindy's Kitchen
Project Location: Caratoke Highway, Coinjock, NC

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: <u>1</u>	Location(s): <u>Located in NE corner of site</u>
Infiltration Trench	Quantity: <u> </u>	Location(s): <u> </u>
Bioretention Cell	Quantity: <u> </u>	Location(s): <u> </u>
Wet Pond	Quantity: <u> </u>	Location(s): <u> </u>
Stormwater Wetland	Quantity: <u> </u>	Location(s): <u> </u>
Permeable Pavement	Quantity: <u> </u>	Location(s): <u> </u>
Sand Filter	Quantity: <u> </u>	Location(s): <u> </u>
Rainwater Harvesting	Quantity: <u> </u>	Location(s): <u> </u>
Green Roof	Quantity: <u> </u>	Location(s): <u> </u>
Level Spreader - Filter Strip	Quantity: <u> </u>	Location(s): <u> </u>
Proprietary System	Quantity: <u> </u>	Location(s): <u> </u>
Treatment Swale	Quantity: <u> </u>	Location(s): <u> </u>
Dry Pond	Quantity: <u> </u>	Location(s): <u> </u>
Disconnected Impervious Surface	Present: <u>No</u>	Location(s): <u> </u>
User Defined SCM	Present: <u>No</u>	Location(s): <u> </u>
Low Density	Present: <u>No</u>	Type: <u> </u>

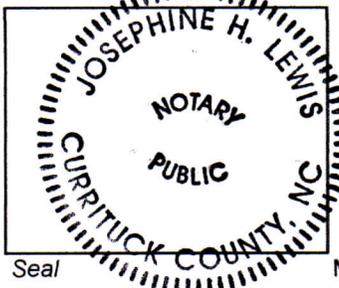
I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed for each SCM above, and attached O&M tables. I agree to notify NCDEQ of any problems with the system or prior to any changes to the system or responsible party.

Responsible Party:	<u>Cynthia J. Spain</u>
Title & Organization:	<u>Owner</u>
Street address:	<u>112 Poplar Haven Road</u>
City, state, zip:	<u>Poplar Branch, NC 27965</u>
Phone number(s):	<u>(252)-619-0421</u>
Email:	<u>cindy@cindyskitchennc.com</u>

Signature: *Cynthia J. Spain* Date: 1-12-2023

I, Josephine H. Lewis, a Notary Public for the State of North Carolina
 County of Currituck, do hereby certify that Cynthia J. Spain
 personally appeared before me this 12th day of January 2023 and
 acknowledge the due execution of the Operations and Maintenance Agreement.

Witness my hand and official seal, Josephine H. Lewis



Seal My commission expires 11-9-2024

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.

Infiltration Basin Maintenance Requirements (continued)

SCM element:	Potential problem:	How to remediate the problem:
The embankment	Shrubs or trees are growing on the embankment.	Remove shrubs and trees immediately.
	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make needed repairs immediately.
The outlet device	Clogging has occurred.	Clean out the outlet device and dispose of sediment in a location where it will not cause impacts to streams or the SCM.
	The outlet device is damaged	Repair or replace the outlet device.
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Repair the damage and improve the flow dissipation structure.
	Discharges from the infiltration basin are causing erosion or sedimentation in the receiving water.	Contact the local NCDEQ Regional Office.

Stormwater Management Plan Narrative

Cindy's Kitchen
Currituck County Submittal
October 24, 2023



General

The following narrative will detail the proposed stormwater management plan for a proposed 48 seat restaurant proposed to be placed on a 1.69 acre parcel in Coinjock, NC. As per state regulations, a high density stormwater permit is being pursued, with water quality treatment provided in a stormwater infiltration basin. To meet Currituck County's peak flow mitigation requirements, the infiltration basin will be designed to retain a peak flow mitigation volume which exceeds the State required water quality volume. The following narrative, application and calculations will demonstrate the parameters of this design in full compliance with Currituck County regulations.

Summary of Design Approach

Currituck County's Stormwater Management Ordinance prescribes that for this project, stormwater control measures must be provided such that the post-construction runoff from the site for a 5yr, 24hr rainfall event must be equal to or less than the pre-construction runoff from a 2yr, 24hr rainfall event across a theoretically wooded site.

What we have found working with small commercial sites in Currituck County with soils predominately classified as "Hydrologic Soils Group A", is that the runoff from the 2-yr, 24hr rainfall for a wooded site is close to zero. The proposed project site has a mixture of A and C soils on the site, but a conservative approach is to analyze the site as entirely consisting of soils within Hydrologic Class A and to therefore assume a pre-construction runoff from a theoretically wooded site to be 0 cfs.

This allows a simplified approach to the analysis and design of a dry infiltration basin system for this site. Since the 5yr, 24 hr post-construction runoff target is 0cfs (as outlined above), the infiltration basins can be sized to fully capture and infiltrate the 5-yr, 24hr runoff total volume in order to meet the County's pre- / post- construction runoff requirements. This total runoff volume approach is what is presented in this report.

Approximately 25% of the site will remain undeveloped (the rear portion of the site). Therefore, the design & analysis was assigned a "Project Area" which encompassed the entirety of the disturbed area, leaving the undeveloped area uncontrolled. This Project Area is shown on an exhibit in the appendices to this Narrative.

Summary of Existing Conditions

The subject parcel is located on the east side of NC 158 approximately 570 feet north of the intersection of NC 158 and Coinjock Acres Drive. The site is currently vacant and maintained as a grassy field. Runoff from the site predominately flows to the rear of the property where it is collected in a ditch that ultimately discharges into the wooded wetland to the east.

Summary of Proposed Conditions

The proposed development consists of the construction of a 48 seat restaurant & bakery with associated parking and utility infrastructure. Stormwater will be managed via an oversized infiltration basin & swale located along the southern, western, and northern periphery of the developed area. Runoff from all developed areas will be collected in this infiltration basin & swale system. The total volume of post-construction runoff resulting from a 5-yr, 24 hr storm event across all developed areas will be captured and infiltrated without any discharge to the existing outfall ditch. Total flows for the property (developed area and open space) will not exceed the 2-yr, 24 hr peak runoff rate for the site in a theoretical wooded pre-development condition.

Stormwater Collection, Treatment, Storage and Disposal

Collection

Runoff from all developed areas will be collected in an infiltration basin & swale system “ringing” the south, west, and northern perimeter of the developed area.

Treatment & Storage

The infiltration basin will offer several methods of stormwater runoff treatment prior to release. Runoff from the drainage area will enter the basin via overland flow through vegetation. Large particulates and debris such as paper trash, sticks, and plastic products will accumulate within the vegetation.

The basin bottom, side slopes, and berm will be seeded or sodded and maintained according to the operation and maintenance plan. The runoff will undergo filtration of fine particulates and pollutants by the vegetation within not only the basin bottom but also the basin side walls. The filtration by the vegetation is considered the primary treatment method. A secondary treatment method is also available when the stormwater runoff infiltrates into the subsurface. When the water passes through the void spaces between the particles of soil material particulates and pollutants that have a particle or grain size larger than the void size will be filtered out. In addition, some pollutants will adsorb to the surface of the soil particles. The benefit of this adsorption will prevent the pollutants from reaching the water table and in some nutrient and microbe rich areas existing within the subsurface the pollutants will be consumed as food and undergo a natural biodegradation.

The runoff generated by a 1.5 inch storm (NCDEQ requirement) will require 2,721 ft³ of storage. The runoff generated by a 4.81 inch storm (5yr, 24hr rainfall – Currituck County requirement) will require 8,824 ft³ of storage.

The storage available above the ground surface within the basin is 8,544 ft³. An additional 2,569 ft³ of storage is available within the subsurface in the 1.0 feet of separation between the basin bottom and the seasonal high water table and the separation between the submerged basin side-slopes and the seasonal high water table. The resulting total storage available within the infiltration basin is 11,113 ft³ (equivalent to runoff generated by a 6.13 inch storm).

A more detailed discussion of subsurface storage volume value can be found within the soils section of this narrative.

Disposal

As discussed in previous sections the majority of stormwater runoff entering this management system will be infiltrated, therefore infiltration will be the primary source of disposal. Using a factor of safety of two and an infiltration rate of 0.8 in/hr (per the soils investigation report), the drawdown time for the 5yr, 24 hr rainfall event is calculated to be 56.90 hours for the proposed infiltration basin. In the event that the capacity of the system is exceeded, runoff will overflow the system via a drop inlet located in the east end of the infiltration basin and will be conveyed to the existing outfall ditch.

Peak Flow Mitigation

Currituck County's Stormwater Ordinance requires that the runoff rate from the 5-yr, 24-hr storm in the post-construction condition not exceed the runoff rate from the 2-yr, 24-hr storm in the pre-construction, theoretical fully wooded condition. As discussed at the beginning of this Narrative, this analysis treats the entire pre-construction site as Hydrologic Soils Group A, resulting in a total pre-construction runoff volume of 0 cf. Since there is no runoff from the theoretical pre-construction condition, a volumetric analysis will demonstrate compliance with pre-post runoff flow requirements.

Pre-development total runoff volume from the Project Area was conservatively assumed (based on prior experience / calculations) to be zero.

Pre-development 2-yr, 24hr, Wooded: 0.0 cf

In order to achieve a system with a total runoff volume of 0 cfs for the 5-yr, 24hr rainfall event, an infiltration basin system with a volumetric capacity equal to the total runoff volume from the developed Project Area was designed. The runoff generated by a 4.81 inch storm (5yr, 24hr rainfall – Currituck County requirement) will require 8,824 ft³ of storage. Within the proposed infiltration basin system, the storage available above the ground surface within the basin is 8,544 ft³. An additional 2,569 ft³ of storage is available within the subsurface in the 1.0 feet of separation between the basin bottom and the seasonal high water table and the separation between the submerged basin side-slopes and the seasonal high water table. The resulting total storage available within the infiltration basin system is 11,113 ft³ (equivalent to runoff generated by a 6.13 inch storm). The entirety of this volume will be infiltrated into the subsurface, resulting in a net runoff volume from the developed Project Area of 0.0 cf.

Due to complete volume capture, peak flows can be expressed as follows:

Pre-development 2-yr, 24hr, Wooded: 0.00 cfs
Post-development 5-yr, 24hr, Proposed: 0.00 cfs

Soils

Protocol Sampling Service, Inc. performed on-site soil borings to verify soil type and determine elevation of the seasonal high water table. Information collected indicates that the soils found throughout this site are composed primarily of sandy loam and loamy sand. These soil types will have moderately high to high permeability. These findings generally correlate with the description mapped and discussed in the United States Department of Agriculture, Soil Conservation Service, Soil Survey of Currituck County, North Carolina, which map the soil for this site as follows:

AaA - Altavista fine sandy loam, Permeability is moderately high to high

BoA – Bojac loamy sand, Permeability is high

A soils map excerpt has been included in the appendix of this narrative.

Calculations

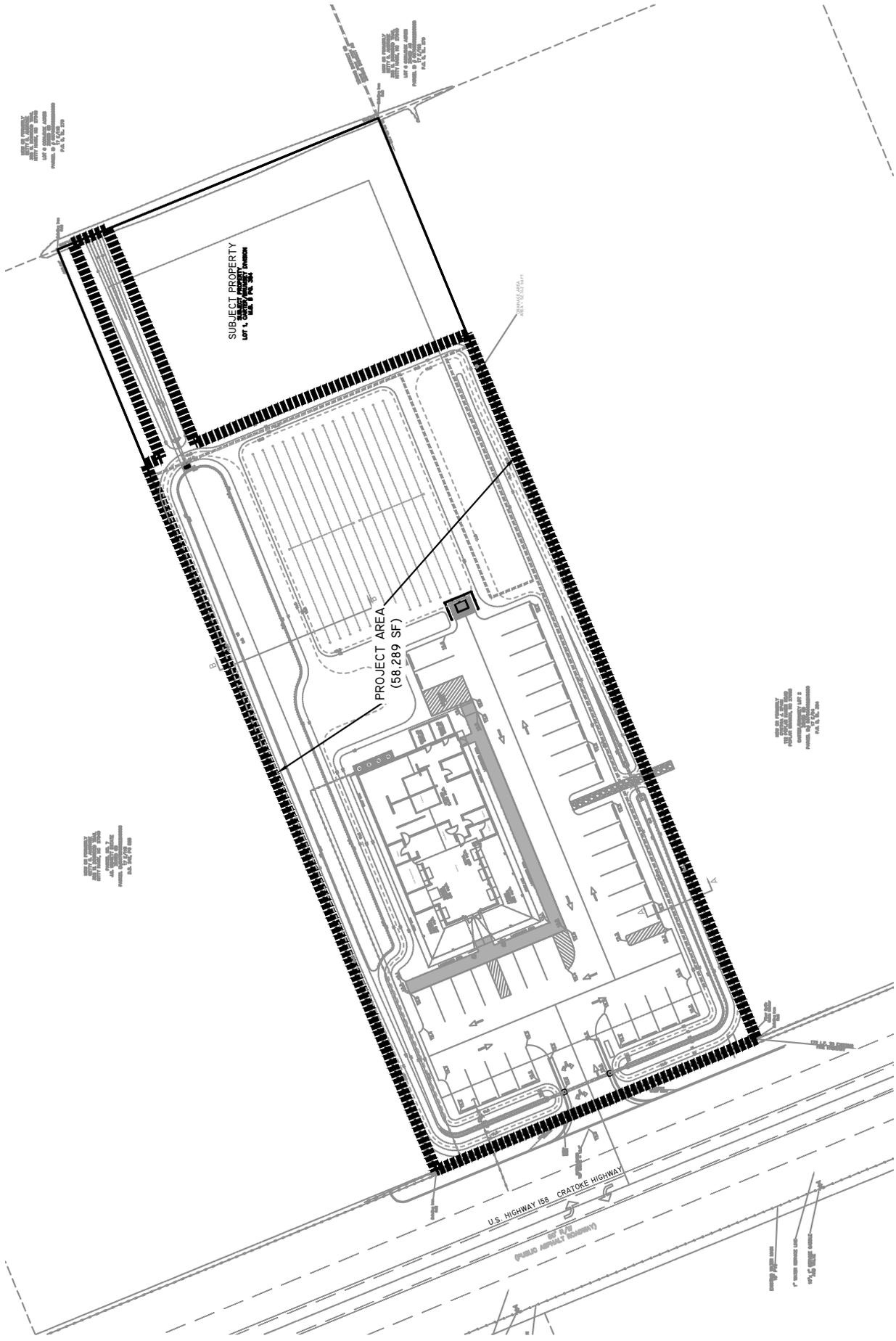
A set of calculations can be found within appendix portion of this narrative.

Conclusions

The proposed stormwater management plan for this site will handle the difference in runoff between the pre-development 2-yr, 24hr and the post-development 5-yr, 24 hr storm events, as prescribed in the Currituck County Stormwater Management Ordinance. Additionally, the design provides treatment of the NCDEQ required water quality volume. This proposed design will more than adequately serve the stormwater management requirements of this site.

APPENDIX A
Aerial Imagery

APPENDIX B
Project Area Exhibit



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 08/14/01 BY 60322 UCBAW/STP

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 08/14/01 BY 60322 UCBAW/STP

SUBJECT PROPERTY
LPT 1, CRATE HIGHWAY PROJECT

PROJECT AREA
(58,289 SF)

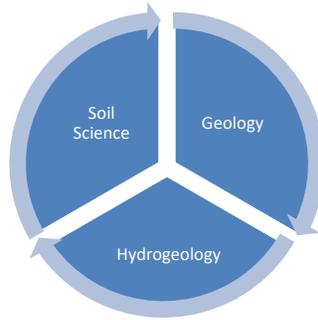
U.S. HIGHWAY 158 CRATE HIGHWAY
PUBLIC AIRPORT ROADWAY

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APPENDIX C
Soils Investigation &
SCS Soil Survey Excerpts



4114 Laurel Ridge Drive
Raleigh, North Carolina 27612

Protocol Sampling Service, Inc.
"Experts in Environmental Compliance"
(919) 210-6547

Protocolsampling@yahoo.com
Environmentalservicesnc.com

November 11, 2022

Mr. Andy Deel, P.E.
Post Office Box 3901
Kill Devil Hills, North Carolina 27948
Via email; dadeeleng@gmail.com

Re: **Storm Water Management Soil Investigation
Hydraulic Conductivity (Ksat) Testing
Cindy's Kitchen
US Highway 158 – Caratoke Highway
Coinjock, Currituck County, North Carolina
Protocol Project #22-172**

Dear Mr. Deel:

The following Soil Investigation is submitted to assist in a site assessment for the proposed storm water management improvements associated with the proposed Cindy's Kitchen Restaurant. The study area which is being considered for infiltration swales. The site is located on the east side of Caratoke Highway (US Highway 158) in Coinjock, Currituck County, North Carolina.

SITE HISTORY AND PHYSICAL CHARACTERISTICS

The study area is currently undeveloped. Commercial development surrounds the study area. Protocol Sampling Service, Inc. of Raleigh, North Carolina was hired to perform an investigation to identify the depth to seasonal high-water table, if any restrictive layers are present in the proposed location of the infiltration swales determine subsurface permeabilities at or slightly above the expected basin bottom elevation.

SOIL INVESTIGATION

The field survey was conducted on November 10, 2022. Three (3) soil borings were advanced to 48 inches below land surface (bls) with a hand auger in predetermined boring locations as shown on the attached exhibit. Soil color was determined with a Munsell Soil Color Chart. The presence of fill or other disturbances, the depth to the seasonal high-water table, soil structure and consistence were noted. The borings were also checked for reduced colors, an anaerobic smell or obvious soil wetness. Surface elevations range from 13 feet msl to 9 feet msl from west to east across the study area.

FINDINGS - Soil

- The subject property contains, from west to east, soil belonging to the Bojac series in the higher elevations, the Augusta series in the middle elevations and Dragston series in the lower elevations.
- The soil was found to have an apparent depth to seasonal high-water table ranging from 42, 27 and 12-inches bls in soil boring No.1, 2 and 3, respectively. Static water levels were found from 60-inches bls in soil boring No.1, 43-inches bls in soil boring No.2 and at 32-inches bls in boring No.3.
- No major restrictive horizons were encountered to a depth of 48-inches in any of the soil borings.

HYDRAULIC CONDUCTIVITY TESTING

Saturated hydraulic conductivity tests were performed to determine the permeability at or slightly below the expected infiltration depth of the infiltration swale. Saturated hydraulic conductivity is a quantitative measure of a saturated soil's ability to transmit water. It can be thought of as the ease with which pores of a saturated soil permit water movement. A common method to measure saturated hydraulic conductivity (K_{SAT}) of the unsaturated zone is by a constant-head well permeameter method (Amoozegar and Mecklenburg, 1999). These K_{SAT} tests take into account soil morphologic factors other than texture, because soil structure and clay mineralogy have been found to have a significant impact on the rate of water movement through soils (Bouma et al., 1983; Schoeneberger et al, 1995, Vepraskas et al, 1996). The Compact Constant Head Permeameter (Amoozemeter) is an example of a constant head permeameter which allows measurements of K_{SAT} in the vadose zone and is widely used in North Carolina and other parts of the country (Amoozegar, 2004; Amoozegar and Mecklenburg, 1999).

The K_{sats} were run at 18 and 6-inches above the current seasonal high water table elevation at 24 and 36-inches bls and above the capillary fringe. The saturated hydraulic conductivity test performed at 24-inches bls reached steady state readings within twenty minutes and three consecutive readings revealed an average conductivity of 0.854 inches/hour or 0.68 feet/day. The saturated hydraulic conductivity test performed at 36-inches bls reached steady state readings within five minutes and three consecutive readings revealed an average conductivity of 4.40 inches/hour or 8.70 feet/day.

FINDINGS - Conductivity

- In-situ testing has revealed an infiltration and percolation rate through the subsurface loamy sand found at 36-inches bls of greater than 4-inches/hour. The moderately well-sorted silty fine sand is estimated to have a porosity of 25 to 30%.

The findings presented herein are based on the site conditions observed during performance of the field survey on November 10, 2022.

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

Sincerely,
Protocol Sampling Service, Inc.



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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: Cindy's Friends
ADDRESS: Lot 1 Laurel Ridge Subdivision (Apt 101) Hwy 101/102 NC
PROPOSED FACILITY: Retention PROPOSED DESIGN FLOW (.1949): 1460 gpd
LOCATION OF SITE: Concord NC APPLICATION DATE: _____
DATE EVALUATED: 11-10-22
WATER SUPPLY: Private Public Well Spring Other _____
PROPERTY SIZE: _____
EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Sewage Industrial Process Mixed
PROPERTY RECORDED: Yes

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)				OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE		.1941 CONSISTENCE/ MINERALOGY		.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR O CLASS	.1944 RESTR HORIZ	
1	T 0-1% SW	0-12"	br	LS	Fr	NS NP	10/16/6 42" ▽ 60" K _{sat} 1 24" K _{sat} 2 36"	48"±			PS 03-0.6
		12-24"	SCL	SL	Fr	SS SL					
		24-35"	SCL	SL	Fr	SS SL					
		35-45"	SCL	LS	Fr	NS NP					
		45-48"	br	Sb	L	NS NP					
2	T 0-1% SW	0-8"	br	SL	Fr	NS NP	10/16/6 27" ▽ 48"	48"±			PS 03-0.6
		8-18"	SCL	SCL	Fr	SS SL					
		18-37"	br/SCL	LS	Fr	NS NP					
		37-47"	SCL	SL	Fr	SS SL					
		47-	br	LS	Fr/L	NS NP					
3	T 0-1% SW/WN	0-12"	br	SL	Fr	SS SL	10/16/6 12" ▽ 32" 10/16/6 15" ▽ 34"	36"±			PS w/ Fine
		12-18"	SCL	SCL	Fr	SL					
		18-27"	SCL	SL	Fr	SS SL					
		27-36"	SCL	SL	Fr	SS SL					
4	T 0-1% WN	0-10"	br	LS	Fr	NS NP	10/16/6 21" ▽ 40"	48"±			PS 01-0.4
		10-18"	br	SL	Fr	NS NP					
		18-26"	SCL	SCL	Fr	SS SL					
		26-39"	SCL	SL	Fr	SS SL					
		39-48"	SCL	LS	Fr	NS NP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): SITE CLASSIFICATION (.1948): EVALUATED BY: OTHER(S) PRESENT:
Available Space (.1945)	Yes	Yes	
System Type(s)			
Site LTAR			

COMMENTS:

Custom Soil Resource Report for Currituck County, North Carolina



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

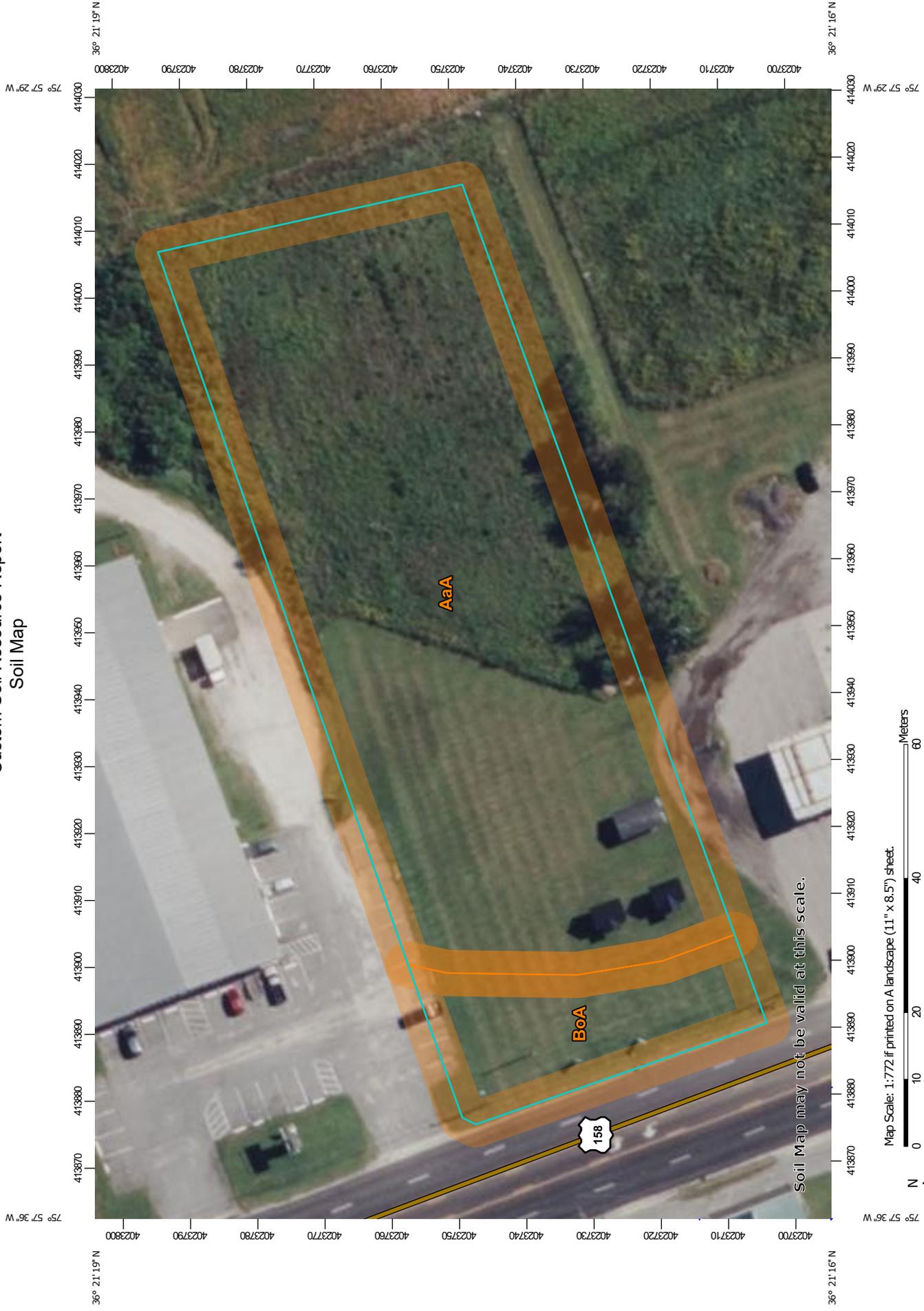
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



Map Scale: 1:772 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)	 Area of Interest (AOI)	 Spoil Area
Soils	 Soil Map Unit Polygons	 Stony Spot
	 Soil Map Unit Lines	 Very Stony Spot
	 Soil Map Unit Points	 Wet Spot
Special Point Features	 Blowout	 Other
	 Borrow Pit	 Special Line Features
	 Clay Spot	Water Features
	 Closed Depression	 Streams and Canals
	 Gravel Pit	Transportation
	 Gravelly Spot	 Rails
	 Landfill	 Interstate Highways
	 Lava Flow	 US Routes
	 Marsh or swamp	 Major Roads
	 Mine or Quarry	 Local Roads
	 Miscellaneous Water	Background
	 Perennial Water	 Aerial Photography
	 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 22, Sep 8, 2022

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

Date(s) aerial images were photographed: Oct 5, 2020—Oct 7, 2020

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
AaA	Altavista fine sandy loam, 0 to 2 percent slopes	1.4	87.0%
BoA	Bojac loamy sand, 0 to 3 percent slopes	0.2	13.0%
Totals for Area of Interest		1.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

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onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Currituck County, North Carolina

AaA—Altavista fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 3m7
Elevation: 0 to 20 feet
Mean annual precipitation: 42 to 58 inches
Mean annual air temperature: 61 to 64 degrees F
Frost-free period: 190 to 270 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Altavista and similar soils: 80 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Altavista

Setting

Landform: Marine terraces
Landform position (two-dimensional): Summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy and loamy fluviomarine deposits and/or marine deposits

Typical profile

Ap - 0 to 12 inches: fine sandy loam
BE - 12 to 15 inches: sandy clay loam
Bt - 15 to 35 inches: sandy clay loam
BC - 35 to 42 inches: sandy loam
Cg - 42 to 80 inches: coarse sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)
Depth to water table: About 18 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Tomotley, undrained

Percent of map unit: 5 percent
Landform: Depressions on stream terraces, flats on marine terraces

Custom Soil Resource Report

Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: Yes

BoA—Bojac loamy sand, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3rnb
Elevation: 0 to 30 feet
Mean annual precipitation: 42 to 58 inches
Mean annual air temperature: 61 to 64 degrees F
Frost-free period: 190 to 270 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Bojac and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bojac

Setting

Landform: Ridges on marine terraces
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy and sandy fluviomarine deposits

Typical profile

Ap - 0 to 8 inches: loamy fine sand
Bt - 8 to 47 inches: fine sandy loam
C - 47 to 85 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: About 48 to 72 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Hydric soil rating: No

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References

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- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084>

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APPENDIX D
Stormwater Calculations

Cindy's Kitchen

2yr-5yr Infiltration Basin Calculations

10/23/2023

Infiltration Basin DA

	(sf)	(ac)
Drainage Area, A	58,289	1.34
Impervious Area, Imp	20,946	0.48

Calculate Design Volume:

Impervious Fraction, Ia	0.359	(Imp/A)
Runoff Coefficient Rv	0.373	(0.05+0.9*Ia)
Rainfall Depth Rd	4.81	(in)
Design Volume Dv (cf)	8,724	(3630*Rd*Rv*A)

Impervious Surface Area	DA 1 (Infil. Basin)
On-site Buildings / Lots (sf)	4,791
On-site Streets (sf)	-
On-site Parking (sf)	14,313
On-site Sidewalks (sf)	1,187
Other on-site (sf)	155
Future (sf)	500
Off-site (sf)	-
Existing BUA (sf)	-
Total (sf):	20,946



Cindy's Kitchen

Infiltration Basin Volume Tabulations
10/23/2023

DA1 Infiltration Basin

Above Grade Storage	
SHWT @:	8.8
Bottom Basin @	9.8
Top Storage @	11.0

Elev:	Area (sf)	Avg Area	Vol	Sum Vol (cf)
9.8	4600			0
		4985	997	
10.0	5370			997
		7547	7547	
11.0	9723			8544 (Total)

Below Grade Storage	
SHWT @:	8.8
Bottom Basin @	9.8
Top Storage @	11.0
Porosity:	20%

Storage in Subgrade = [(Top Storage Area x Depth to SHWT)-Above Grade Volume]x0.2

Storage in Subgrade= **2569**

Total Storage Available = 11113

Cindy's Kitchen

Infiltration System Dewatering (drawdown) Calculations
10/23/2023

Per NCDEQ SCM Manual:

$$T = FS \times (Dv \times 12) / (K \times SA)$$

T = dewatering time (hrs)

FS = factor of safety (use 2.0)

2

Dv = design volume (cf)

K = hydraulic conductivity of soil (in/hr) =

0.8 in/hr

SA = surface area of bottom of infil system (sf)

Drainage Area 1 - Infiltration Basin

Dv = **8724** cf
SA = **4600** sf

T = **56.90** hrs

T = **2.37** days



Major Site Plan Review Process

Pre-Application
Conference

Community
Meeting
(optional)

Submit
Application

Determination of
Completeness

Staff Report
(optional)

Technical Review
Committee
Decision

Notice of
Decision

Major
Site Plan

Contact Information

Currituck County
Development Services Department
153 Courthouse Road, Suite 110
Currituck, NC 27929

Phone: 252.232.3055

Website: <http://www.currituckcountync.gov/planning-zoning/>

General

Major site plan approval is required for any non-residential, multi-family, or mixed-use development that:

- Is 5,000 square feet or greater of building gross floor area, impervious surface, disturbed land area, and other use area.

Step 1: Pre-application Conference

The purpose of a pre-application conference is to provide an opportunity for the applicant to determine the submittal requirements and the procedures and standards applicable to an anticipated development application. A pre-application conference is also intended to provide an opportunity for county staff to become familiar with, and offer the applicant preliminary comments about, the scope, features, and impacts of the proposed development, as it relates to the standards in the Unified Development Ordinance (UDO).

The applicant shall submit conceptual drawings that show the location, general layout, and main elements of the proposed development as part of the application to the Development Services Department at least three business days before the pre-application conference.

Step 2: Application Submittal and Acceptance

The applicant must submit a complete application packet on or before the application submittal date. A complete application packet consists of the following:

- Completed Currituck County Major Site Plan Application.
- Application Fee (\$.10 per square foot of gross floor area or \$400 minimum).
- Site plan drawn to scale. The plan shall include the items listed in the major site plan design standards checklist.
- Landscape plan drawn to scale. The plan shall include the items listed in the major site plan design standards checklist.
- Exterior lighting plan drawn to scale. The plan shall include the items listed in the major site plan design standards checklist.
- Stormwater Review Fee (see fee schedule) and Major Stormwater Plan and Form SW-002.
- Architectural elevations illustrating the design and character of the proposed structures, if applicable.
- ARHS site evaluation(s) OR if connecting to existing wastewater system, a letter of commitment from centralized sewer provider and letter from DWQ indicating the existing plant has sufficient capacity to serve the development at the time of site plan approval.

- NCDEQ, DWQ stormwater permit application (if 10,000sf or more of built upon area).
- NCDEQ, Land Quality, Erosion and Sedimentation Control permit application (if one acre or more of land disturbance).
- NCDOT Street and Driveway Access Permit Application and Encroachment Agreement.
- Number of Copies Submitted:
 - 2 Copies of site plans
 - 2 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, within ten business days, 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. If an application is determined to be incomplete, the applicant may correct the deficiencies and resubmit the application for completeness determination. Failure to resubmit a complete application within 45 calendar days after being determined incomplete will result in the application being considered withdrawn. Applicants may submit applications for a site plan and building permit concurrently.

Step 3: Staff Review and Action

Once an application is determined complete, it will be distributed to the Technical Review Committee (TRC) and placed on the TRC meeting agenda. TRC shall review and prepare a written report that will include any outstanding concerns with the application. TRC shall approve, approve subject to conditions or disapprove the application. Conditions of approval shall be limited to those deemed necessary to ensure compliance with the standards of the UDO.

An application for a site plan shall be approved on a finding the applicant has demonstrated the proposed development:

- Is consistent with the Land Use Plan or other officially adopted plan;
- Complies with the applicable district, use-specific, development, environmental, and infrastructure design standards of the UDO;
- Complies with the Currituck County Stormwater Manual and all other applicable standards of the UDO and the County Code of Ordinances; and
- Complies with all standards or conditions of any prior applicable development permits or approvals.



Major Site Plan Application

OFFICIAL USE ONLY:	
Case Number:	_____
Date Filed:	_____
Gate Keeper:	_____
Amount Paid:	_____

Contact Information

APPLICANT:		PROPERTY OWNER:	
Name: Cynthia J. Spain		Name: Same as Applicant	
Address: 112 Poplar Haven Road		Address: _____	
Poplar Branch, NC 27965		_____	
Telephone: 252-619-0421		Telephone: _____	
E-Mail Address: _____		E-Mail Address: _____	

LEGAL RELATIONSHIP OF APPLICANT TO PROPERTY OWNER: **Same**

Property Information

Physical Street Address: **Caratoke Highway between 4495 and 4511 Caratoke Highway**

Location: **580 I.f. along Caratoke Highway South of S.R. 1416**

Parcel Identification Number(s): **0070 000 022J 0000**

Total Parcel(s) Acreage: **73,600 sq.ft. 1.69 ac.**

Existing Land Use of Property: **Vacant with unpermitted sheds to be removed**

Request

Project Name: **Cindy's Kitchen**

Proposed Use of the Property: **Restaurant with Bakery**

Deed Book/Page Number and/or Plat Cabinet/Slide Number: **D.B. 17 Pg. 17 P.C. E Sl. 94**

Total square footage of land disturbance activity: **53,000 sq.ft. +/-**

Total lot coverage: **20,446 sq.ft.** Total vehicular use area: **14,313 sq.ft.**

Existing gross floor area: **0** Proposed gross floor area: **4,791 sq.ft.**

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

Cynthia J. Spain 10-24-23
Property Owner(s)/Applicant* Date



Major Site Plan Application

OFFICIAL USE ONLY:

Case Number: _____
Date Filed: _____
Gate Keeper: _____
Amount Paid: _____

Contact Information

APPLICANT:

Name: **Cynthia J. Spain**
Address: **112 Poplar Haven Road**
Poplar Branch, NC 27965
Telephone: **252-619-0421**
E-Mail Address: _____

PROPERTY OWNER:

Name: **Same as Applicant**
Address: _____
Telephone: _____
E-Mail Address: _____

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Property Owner(s)/Applicant*

Date

***NOTE: Form must be signed by the owner(s) of record, contract purchaser(s), or other person(s) having a recognized property interest. If there are multiple property owners/applicants a signature is required for each.**

Major Site Plan Design Standards Checklist

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

Major Site Plan Design Standards Checklist

Date Received: _____

TRC Date: _____

Project Name: **Cindy's Kitchen**
Applicant/Property Owner: **Cynthia J. Spain**

Site Plan Design Standards Checklist		
General		
1	Property owner name, address, phone number, and e-mail address.	x
2	Site address and parcel identification number.	x
3	North arrow and scale to be 1" = 100' or larger.	x
4	Vicinity map showing property's general location in relation to streets, railroads, and waterways.	x
5	Existing zoning classification and zoning setback lines of the property.	x
6	Scaled drawing showing existing and proposed site features : Property lines, acreage, adjacent use types, streets (right-of-ways), easements, buildings and accessory structures (including square feet and use), parking layout, vehicular use areas, driveways (including opposing driveways), loading spaces, refuse collection facilities (dumpsters), outdoor storage areas, ground based utility equipment, fences and walls, and sidewalks and pedestrian circulation. And location and size of existing and proposed infrastructure : Water mains (including and water taps), water meter details, backflow prevention details, wells, sewer mains or on-site septic systems (including repair area), electrical service, fire hydrants, detail of fire apparatus access to buildings, and any other public utility within all adjacent public right-of-ways and easements.	x
7	Approximate location of all designated Areas of Environmental Concern 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.	n/a
8	Sight distance triangles.	x
9	Proposed common areas, open space set-asides, and required buffers.	x
Landscape Plan		
10	All existing and proposed planting areas and vegetation that will be used to comply with the landscaping requirements, including the species, caliper, and spacing of all vegetation.	n/a
11	Existing and proposed physical barriers to be used to comply with the bufferyard and screening requirements.	x
12	Heritage tree inventory and proposed tree protection zones.	n/a
13	Adjoining property lines, zoning, and names and address of adjoining property owners.	x
Exterior Lighting Plan		
14	Location, height, and type of all proposed exterior lighting including but not limited to site, street, building, and security lighting.	n/a

15	Footcandle measurements of the entire site including lot lines, or light fixture documentation when minimal lighting is proposed.	n/a
Major Stormwater Management Plan		
16	Major Stormwater Plan and Form SW-002	x
Architectural Elevations		
17	Architectural drawings and/or sketches illustrating the design, character, height, and materials of the proposed buildings.	
Flood Damage Prevention, if Applicable		
18	Proposed elevation of all structures and utilities.	x
19	Location, dimensions, and use of: Development and disturbance, existing and proposed structures and utility systems grading and pavement areas, fill materials, storage areas, drainage facilities, and other development.	x
20	Boundary of Special Flood Hazard Area (SFHA), floodway, Coastal Barrier Resource System (CBRS) Area, water course relocation, or a statement that the entire lot is within a specific SFHA.	x
21	Flood zone designation as determined on the County's Flood Insurance Rate Maps (FIRM).	x
22	Design Flood Elevation (Base Flood Elevation plus two foot freeboard).	x
23	Plans and/or details for the protection of public facilities and utilities (sewer, gas, electrical, and water systems) from inundation of flood waters up to Design Flood Elevation.	n/a
24	Water course alteration or relocation: Description of alteration or relocation, report on effects of proposed project on the flood carrying capacity of the water course, and effects to properties located up and downstream.	x
25	Fill – plans for non-structural fill (if being utilized in VE zone).	x

Major Site Plan Submittal Checklist

Staff will use the following checklist to determine the completeness of your application within ten business days of submittal. 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 Site Plan Submittal Checklist

Date Received: _____

TRC Date: _____

Project Name: **Cindy's Kitchen**

Applicant/Property Owner: **Cynthia J. Spain**

Major Site Plan Submittal Checklist		
1	Complete Major Site Plan application	x
2	Application fee (\$.10 per square foot of gross floor area or \$400 minimum)	x
3	Site plan	x
4	Landscape plan	x
5	Exterior Lighting plan	n/a
6	Stormwater Review Fee Deposit (see fee schedule) and Major Stormwater Management plan and Form SW-002	
7	Architectural elevations, if applicable	x
8	ARHS site evaluation(s) OR if connecting to existing wastewater system, a letter of commitment from owner of centralized sewer provider and letter from DWQ indicating the existing plant has sufficient capacity to serve the development at the time of site plan approval.	x
9	NCDEQ stormwater permit application (if 10,000sf or more of built upon area).	x
10	NCDEQ Erosion and Sedimentation Control permit application (if one acre or more of land disturbance).	x
11	NCDOT Street and Driveway Access Permit Application and Encroachment Agreement	x
12	2 copies of plans	x
13	2 hard copies of ALL documents	x
14	1 PDF digital copy of all plans AND documents (ex. Compact Disk – e-mail not acceptable)	x

For Staff Only

Pre-application Conference

Pre-application Conference was held on **February 13, 2023** and the following people were present:

Mike Robinson, P.E., Rick Godsey, Dave Spence, Dylan Lloyd, Jason Litteral, Anna Cherry, Jennie Turner, Kevin Kemp

Comments

Completeness Determination
