

Chatham County Planning Department

P.O. Box 54
Pittsboro, NC 27312
Tel: (919) 542-8204
Fax: (919) 542-2698

Type of Review

- Sketch
- Preliminary
- Final

MAJOR SUBDIVISION APPLICATION

Name of Subdivision: Fearrington "The Knolls"

Subdivision Applicant: _____ **Subdivision Owner:** _____

Name: Fitch Creations, Inc.

Name: Fitch Creations, Inc.

Address: 2000 Fearrington Village Center
Pittsboro, NC 27312

Address: 2000 Fearrington Village Center
Pittsboro, NC 27312

Phone:(W) 919-542-4000

Phone:(W) 919-542-4000

Phone:(H) _____ Fax: 919-542-4020

Phone:(H) _____ Fax: 919-542-4020

E-Mail rb@fearrington.com

E-Mail rb@fearrington.com

Township: Williams **Zoning:** CUP RA 40

P. I. N. # 9774-73-3897 (-73-1419)(-43-1655)

Flood Map # 3710977400J **Zone:** X

Parcel # 73739 70288 18998

Watershed: WS IV PA

Existing Access Road: S.R. # 1817

S.R. road name Millcroft

Total Acreage: 19.744 ac.

Total # of Lots: 28

Min. Lot Size: 0.206 ac.

Ph. I Acreage _____

Ph. I # of lots _____

Max. Lot Size: 0.379 ac.

Ph. II Acreage _____

Ph. II # of lots _____

Avg. Lot Size: 0.276 ac.

Ph. III Acreage _____

Ph. III # of lots _____

Name and date of contact with Chatham County Historical Association: _____

Type of new road: Private/ Length 2090 ft. Public/ Length _____

Road Surface:

- paved
- gravel

Water System:

- individual wells
- community wells
- public system

Sewer System:

- septic systems
- community system
- public system

name Chatham County

name Fearrington

List other facilities: commercial, recreation, etc., and the approximate acreage or square footage:

Ray Scott Pur Date 12/8/2009 *Ray Scott Pur* Date 12/8/2009
 Signature of Applicant Signature of Owner

For Office Use Only:

Notes: _____

Approved by County Commissioners: Sketch _____
 Preliminary _____
 Final _____

Payment: Date _____ / _____ / _____ Amount: \$ _____

DIEHL & PHILLIPS, P.A.

CONSULTING ENGINEERS

219 East Chatham Street

Cary, North Carolina 27511

Telephone (919) 467-9972 • Fax (919) 467-5327

WILLIAM C. DIEHL, P.E.

JOHN F. PHILLIPS, P.E.

ALAN R. KEITH, P.E.

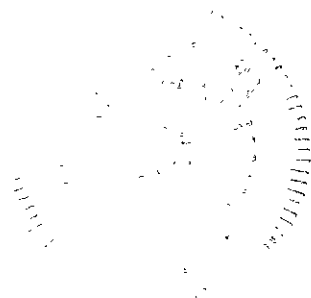
December 9, 2009

Ms. Lynn Richardson
Chatham County Planning Department
P.O. Box 54
Pittsboro, NC 27312

Re: Street Construction for The Knolls
Farrington P.U.D

Dear Ms. Richardson:

The street to serve The Knolls has been constructed. The street in The Knolls is a private street. Based upon testing services and reports by ECS Carolinas, LLP and our periodic observation, we hereby certify to the best of our knowledge and belief, that the street in the Knolls was constructed in accordance with North Carolina Department of Transportation (NCDOT) standards for materials and construction. We do not put forward that the geometric design of the street is in full compliance with NC DOT subdivision standards since it is a private street. Contact our office if you require further information.



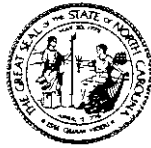
Sincerely,

Diehl & Phillips, P.A.

Alan R. Keith, P.E.

12/9/09

Cc: R.B. Fitch
Robert Flynn
Dan Sears
John Phillips



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

DIVISION OF HIGHWAYS

EUGENE A. CONTI, JR.
SECRETARY

April 30, 2009

Mr. Roy B. Fitch, Jr.
Fitch Creations, Inc.
2000 Fearrington Village Center
Pittsboro, NC 27312

and

Mr. Charlie Horne
Chatham County
P.O. Box 910
Pittsboro, NC 27312

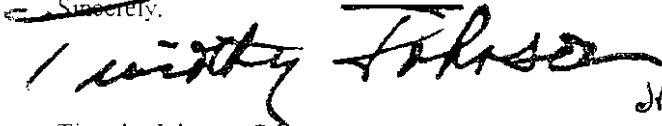
SUBJECT: ENCROACHMENT AGREEMENT (19-3662)
Approx. 45 L.F. of 8", and approx. 40 L.F. of 6" D.I.P. water line
SR 1817
Chatham County

Dear Mr. Fitch and Mr. Horne:

Attached is a properly executed copy of a Right of Way Encroachment Agreement which covers the following

Installation of approx. 45 L.F. of 8" D.I.P. and approx. 40 L.F. of 6" D.I.P. water line along SR 1817 to service The Knolls and Millcroft Cluster Homer Close 5 subdivisions in Chatham County.

This agreement is approved subject to the Special Provisions which are attached to and made a part of the Encroachment Agreement.

Sincerely,

Timothy Johnson, P.E.
Division Engineer

Attachments

cc: Robert Memory, State Utility Agent, Utility Coordination Unit (w/orig.)
Reuben Blakley, P.E., District Engineer
Benny Sloan, County Maintenance Engineer
Mr. Alan Keith, P.E., Diehl & Phillips, P.A.
File

(19-3662)

DIEHL & PHILLIPS, P.A.

CONSULTING ENGINEERS
219 East Chatham Street
Cary, North Carolina 27511
Telephone (919) 467-9972 • Fax (919) 467-5327

WILLIAM C. DIEHL, P.E.
JOHN F. PHILLIPS, P.E.
ALAN R. KEITH, P.E.

December 9, 2009

Ms. Lynn Richardson
Chatham County Planning Department
P.O. Box 54
Pittsboro, NC 27312


Re: Wastewater System Capacity for The Knolls
Farrington P.U.D

Dear Ms. Richardson:

The sanitary sewer collection system to serve The Knolls has been constructed. The sewer to serve the Knolls has been connected to the Farrington Utilities system. The Farrington Utilities collection system and wastewater treatment plant have the capacity to serve the Knolls. Contact our office if you require further information.

Sincerely,

Diehl & Phillips, P.A.



Alan R. Keith, P.E.

12/9/09

Cc: R.B. Fitch
Robert Flynn
Dan Sears
John Phillips



Division of Environmental Health

Terry L. Pierce, Director

Public Water Supply Section

Jessica G. Miles, Section Chief

State of North Carolina
Michael F. Easley, Governor

Department of Environment and
Natural Resources
William G. Ross, Secretary

July 9, 2008

CHARLIE HORNE
P OBOX 910,
PITTSBORO, NC 27312

Re: **Authorization to construct
THE KNOLLS, FEARRINGTON PUD
CHATHAM CO WATER SYSTEM
CHATHAM County, NC0319126**

Authorization to Construct (This is not a Final Approval)

Dear Applicant:

This letter is to confirm that a complete Engineer's Report and a Water System Management Plan have been received, and that engineering plans and specifications have been approved by the Department for **THE KNOLLS, FEARRINGTON PUD, DEH Serial No. 08-00983.**

The Authorization to Construct is valid for 24 months from the **Issue Date** (refer to next page). Authorization to Construct may be extended if the Rules Governing Public Water Supplies and site conditions have not changed (see Rule .0305). The Authorization to Construct and the engineering plans and specifications approval letter shall be posted at the primary entrance of the job site before and during construction.

Upon completion of the construction or modification, and **prior to placing the new construction or modification into service**, the applicant must submit an Engineer's Certification and Applicant Certification directly to **HENRI OU** of this office.

- **Engineer Certification:** in accordance with Rule .0303 (a), the applicant shall submit a certification statement signed and sealed by a registered professional engineer stating that construction was completed in accordance with approved engineering plans and specifications, including any provisions stipulated in the Department's engineering plan and specification approval letter.
- **Applicant Certification:** in accordance with Rule .0303 (c), the applicant shall submit a signed certification statement indicating that the requirements for an Operation and Maintenance Plan and Emergency Management Plan have been satisfied in accordance with Rule .0307 (d) and (e) and that the system has a certified operator in accordance with Rule .1300. The "Applicant Certification" form is available at <http://www.deh.enr.state.nc.us/pws/> (click on Plan Review Forms, under Plan Review heading).

If this Authorization to Construct is for a new public water system, the owner must submit a completed **application for an Operating Permit** and the appropriate fee. For a copy of the application for an Operating Permit please call (919) 715-3214.

Once the certifications and permit application and fee, (if applicable), are received and determined adequate the Department will issue a Final Approval letter to the applicant. In accordance with Rule .0309 (a), **no portion of this project shall be placed into service until the Department has issued Final Approval.**

If Public Water Supply Section can be of further assistance, please call (919) 733-2321.

Sincerely,

Tony C. Chen, P.E.
Technical Services Branch
Public Water Supply Section

TCC:HSO

cc: MICHAEL L. DOUGLAS, P.E., Regional Engineer
DIEHL & PHILLIPS PA

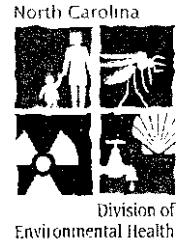
1634 Mail Service Center, Raleigh, North Carolina 27699-1634
Telephone 919-733-2321 ▲ Fax 919-715-4374 ▲ Lab Form Fax 919-715-6637
<http://ncdrinkingwater.state.nc.us/>

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North Carolina
Naturally



State of North Carolina
Department of Environment and Natural Resources
Division of Environmental Health



Public Water System Authorization to Construct

**Public Water System Name
and PWSID No. (if available):**

CHATHAM CO WATER SYSTEM
NC0319126

Project Name:

THE KNOLLS, FEARRINGTON PUD

DEH Serial No.

08-00983

Issue Date:

7/8/2008

Expiration Date:

24 months after Issue Date

In accordance with NCAC 18C .0305, this Authorization to Construct must be posted for inspection at the primary entrance to the job site during construction.



Division of Environmental Health
Terry L. Pierce, Director

State of North Carolina
Michael F. Easley, Governor

Public Water Supply Section
Jessica G. Miles, Section Chief

Department of Environment
and Natural Resources
William G. Ross, Secretary

July 10, 2008

Mr. Charlie Horne, County Manager
County of Chatham
Post Office Box 910
Pittsboro, North Carolina 27312

Re: Engineering Plans and Specifications Approval
Water Main Extension
Chatham County North Water System
to serve The Knoils at Fearington P.U.D.
Chatham County
I.D. # 03-19-126

This is not an Authorization to Construct

Dear Mr. Horne:

Enclosed please find one copy of the "Application for Approval..." together with one copy of the referenced engineering plans and specifications bearing the Division of Environmental Health stamp of approval for the referenced project. These engineering plans and specifications are approved under Division of Environmental Health serial number 08-00983, dated July 8, 2008.

Engineering plans and specifications prepared by Alan R. Keith, P.E., call for the installation of approximately 1,615 feet of 8-inch water main, valves, hydrants and other related appurtenances along Street L and Street K to serve the Knoils at Fearington P.U.D. with 29 connections located off Millcroft Road (S.R. 1817).

Please note that an "Authorization to Construct" requires both this approval of Engineering Plans and Specifications and submittal of a complete Water System Management Plan. No construction shall be undertaken, and no contract for construction, alteration, or installation shall be entered into until the Department issues an Authorization to Construct letter in accordance with 15A NCAC 18C .0305(a).

These plans and specifications cited in the foregoing application are approved insofar as the protection of public health is concerned as provided in the rules, standards and criteria adopted under the authority of Chapter 130A-317 of the General Statutes. This approval does not constitute a warranty of the design, construction or future operation of the water system.

One copy of each enclosed document is being forwarded to our Raleigh Regional Office. The third copy is being retained in our permanent files.

If Public Water Supply can be of further service, please call (919) 733-2321.

Sincerely,

Tony C. Chen, P.E.
Lead Engineer, Plan Review
Technical Services Branch

TCC/HSO/db

Enclosures: Approval Documents
cc: Michael L. Douglas, P.E., Regional Engineer
Chatham County Health Department
Diehl & Phillips, PA

1634 Mail Service Center, Raleigh, North Carolina 27699-1634
Telephone 919-733-2321 ▲ Fax 919-715-4374 ▲ Lab Form Fax 919-715-6637
<http://ncdrinkingwater.state.nc.us/>

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Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources
Coleen H. Sullins, Director
Division of Water Quality

April 23, 2008

Roy B. Fitch, Jr., President
Fitch Creations, Inc. (dba Fearington Utilities)
2000 Fearington Village Center
Pittsboro, NC 27312

Subject: Permit No. WQ0032934
The Knolls & Henderson Place
Wastewater Collection System Extension
Chatham County

Dear Mr. Fitch:

In accordance with your permit application received April 11, 2008, we are forwarding herewith Permit No. WQ0032934 dated April 23, 2008, to Fearington Utilities for the construction and operation of the subject wastewater collection system. This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein. This cover letter shall be considered a part of this permit and is therefore incorporated therein by reference.

Please pay particular attention to Permit Condition 3 which requires that the wastewater collection facilities be properly operated and maintained in accordance with 15A NCAC 2T .0403 or any individual system-wide collection system permit issued to the Permittee. Your attention is also directed to Permit Condition 6, which requires Engineering Certification prior to operation of this collection system extension.

Permitting of this project does not constitute an acceptance of any part of the project that does not meet 15A NCAC 2T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; and the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable, unless specifically mentioned herein. Division approval is based on acceptance of the certification provided by a North Carolina-licensed Professional Engineer in the application. It shall be the Permittee's responsibility to ensure that the as-constructed project meets the appropriate design criteria and rules. Failure to comply may result in penalties in accordance with North Carolina General Statute §143-215.6A through §143-215.6C, construction of additional or replacement wastewater collection facilities, and/or referral of the North Carolina-licensed Professional Engineer to the licensing board.

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations, permission is hereby granted to the Owner for the construction and operation of:

One
North Carolina
Naturally

North Carolina Division of Water Quality	1628 Mail Service Center	Raleigh, NC 27699-1628	Phone (919) 791-4200	Customer Service
Internet www.ncwaterquality.org	Location: 3800 Barrett Drive	Raleigh, NC 27609	Fax (919) 788-7159	1-877-623-6748

- approximately 6,263 linear feet of 8-inch gravity sewer

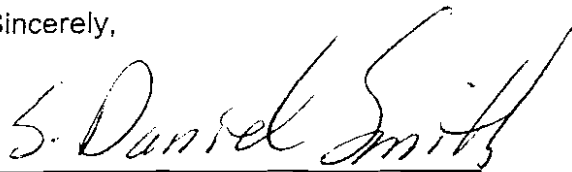
to serve 75 single family dwellings as part of the Knolls & Henderson Place project, and the discharge of 18,750 gallons per day of collected domestic wastewater into the Ferrington Utilities existing sewerage system, pursuant to the application received April 11, 2008, and in conformity with 15A NCAC 2T; the Division's Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting data subsequently filed and approved by the Department of Environment and Natural Resources and considered a part of this permit.

The sewage and wastewater collected by this system shall be treated in the Ferrington Utilities Wastewater Treatment Facility (Permit No. NC0043559) prior to being discharged into the receiving stream.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within 30 days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of North Carolina General Statutes, and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made, this permit shall be final and binding.

If you have any questions regarding this permit or require any additional information, please contact Barry Herzberg at (919) 791-4249, or by e-mail to barry.herzberg@ncmail.net.

Sincerely,



for Coleen H. Sullins, Director
Division of Water Quality

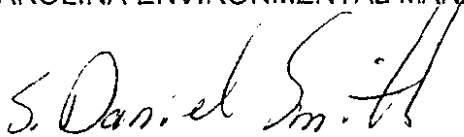
by S. Daniel Smith
Surface Water Quality Supervisor
Raleigh Regional Office

cc: Chatham County Health Department
Raleigh Regional Office, SWP
Alan Keith, PE; Diehl & Phillips, 219 E. Chatham Street, Cary, NC 27511
Central Files
Deborah Gore, PERCS Unit

SSO (or the most current Division approved form), within five days following first knowledge of the occurrence. This report shall outline the actions taken or proposed to ensure that the problem does not recur. Per Condition I(2), Part II of Form CS-SSO (or the most current Division approved form) can also be completed to show that the SSO was beyond control.

Permit issued this the 23rd Day of April, 2008.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

A handwritten signature in black ink that reads "S. Daniel Smith". The signature is written in a cursive style and is positioned above a horizontal line.

for Coleen H. Sullins, Director
Division of Water Quality
By Authority of the Environmental Management Commission

by S. Daniel Smith
Surface Water Quality Supervisor
Raleigh Regional Office

Permit Number WQ0032934
Farrington Utilities
The Knolls & Henderson Place

NORTH CAROLINA
ENVIRONMENTAL MANAGEMENT COMMISSION
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
RALEIGH
WASTEWATER COLLECTION SYSTEM EXTENSION PERMIT

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

1. This permit shall become voidable unless the wastewater collection facilities are constructed in accordance with the conditions of this permit; 15A NCAC 2T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting materials unless specifically mentioned herein.
2. This permit shall be effective only with respect to the nature and volume of wastes described in the application and other supporting data.
3. The wastewater collection facilities shall be properly maintained and operated at all times. The Permittee shall maintain compliance with an individual system-wide collection system permit for the operation and maintenance of these facilities as required by 15A NCAC 2T .0403. If an individual permit is not required, the following performance criteria shall be met as provided in 15A NCAC 2T .0403:
 - a. The sewer system shall be effectively maintained and operated at all times to prevent discharge to land or surface waters, and any contravention of the groundwater standards in 15A NCAC 2L .0200 or the surface water standards in 15A NCAC 2B .0200.
 - b. A map of the sewer system shall be developed and shall be actively maintained.
 - c. An operation and maintenance plan shall be developed and implemented.
 - d. Pump stations that are not connected to a telemetry system shall be inspected every day (i.e. 365 days per year). Pump stations that are connected to a telemetry system shall be inspected at least once per week.
 - e. High-priority sewer lines shall be inspected at least once per every six-month period of time.
 - f. A general observation of the entire sewer system shall be conducted at least once per year.
 - g. Inspection and maintenance records shall be maintained for a period of at least three years.
 - h. Overflows and bypasses shall be reported to the appropriate Division regional office in accordance with 15A NCAC 2B .0506(a), and public notice shall be provided as required by North Carolina General Statute §143-215.1C.
4. **This permit shall not be transferable.** In the event there is a desire for the wastewater collection facilities to change ownership, or there is a name change of the Permittee, a formal permit request shall be submitted to the Division accompanied by documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request shall be considered on its merits and may or may not be approved.

5. Construction of the gravity sewers, pump stations, and force mains shall be scheduled so as not to interrupt service by the existing utilities nor result in an overflow or bypass discharge of wastewater to the surface waters of the State.
6. Per 15A NCAC 2T .0116, upon completion of construction and **prior to operation** of these permitted facilities, the completed Engineering Certification form attached to this permit shall be submitted with the required supporting documents to the address provided on the form. A complete certification is one where the form is fully executed and the supporting documents are provided as applicable. Gravity sewers installed below the minimum required slope per the Division's Gravity Sewer Minimum Design Criteria shall not be acceptable and shall not be certified until corrected. If there is a unforeseen obstacle in the field where all viable solutions have been examined, a slope variance can be requested from the Division with firm supporting documentation. This shall be done through a permit modification with fee. Such variance requests will be evaluated on a case by case basis. Resolution of such request shall be evident prior to completing and submitting the construction certification.
7. A copy of the construction record drawings shall be maintained on file by the Permittee for the life of the wastewater collection facilities.
8. Failure to abide by the conditions and limitations contained in this permit; 15A NCAC 2T; the Division's Gravity Sewer Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Station and Force Mains adopted June 1, 2000 as applicable; and other supporting materials may subject the Permittee to an enforcement action by the Division, in accordance with North Carolina General Statutes §143-215.6A through §143-215.6C.
9. In the event that the wastewater collection facilities fail to perform satisfactorily, including the creation of nuisance conditions, the Permittee shall take immediate corrective action, including those as may be required by this Division, such as the construction of additional or replacement facilities.
10. The issuance of this permit shall not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (local, state and federal) which have jurisdiction, including but not limited to applicable river buffer rules in 15A NCAC 2B .0200, erosion and sedimentation control requirements in 15A NCAC Ch. 4 and under the Division's General Permit NCG010000, and any requirements pertaining to wetlands under 15A NCAC 2B .0200 and 15A NCAC 2H .0500.

11. **Noncompliance Notification:**

The Permittee shall verbally report to a water quality staff member at the Raleigh Regional Office, telephone number 919-791-4200, as soon as possible, but in no case more than 24 hours or on the next working day, following the occurrence or first knowledge of the occurrence of either of the following:

- a. Any process unit failure, due to known or unknown reasons, that renders the facility incapable of adequate wastewater transport, such as mechanical or electrical failures of pumps, line blockage or breakage, etc., or
- b. Any failure of a pumping station or sewer line resulting in a by-pass directly to receiving waters without treatment of all or any portion of the influent to such station or facility.

Initial voice mail messages or faxed information shall not be considered as the initial verbal report. Overflows and spills occurring outside normal business hours may also be reported to the Division of Emergency Management at telephone number (800) 858-0368 or (919) 733-3300. Persons reporting any of the above occurrences shall file a spill report by completing Part I of Form CS-

FAST TRACK ENGINEERING CERTIFICATION

Permit No. WQ0032934
Farrington Utilities
The Knolls & Henderson Place
April 23, 2008

Complete and submit this form to the permit issuing regional office with the following:

- One copy of the project record drawings (plan & profile views of sewer lines) of the wastewater collection system extension
- supporting design calculations (selected pumps, system curve, operating point, available storage if portable generator(s) or storage greater than longest past three year outage reliability option selected) for any pump stations permitted as part of this project
- Changes to the project should be clearly identified on the record drawings or in written summary form. Permit modifications are required for any changes resulting in non-compliance with this permit, regulations or minimum design criteria.

This project shall not be considered complete nor allowed to operate until this Engineer's Certification and all required supporting documentation have been received by the Division. **Therefore, it is highly recommended that this certification be sent in a manner that provides proof of receipt by the Division.**

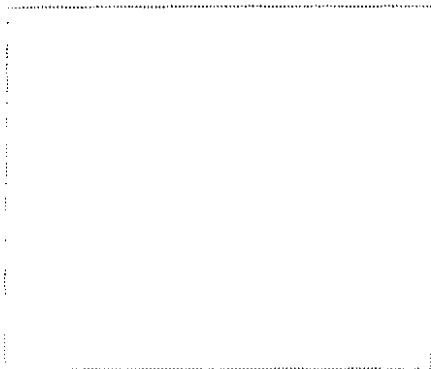
ENGINEER'S CERTIFICATION

Partial

Final

I, _____, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the subject project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance of this permit; 15A NCAC 2T; the Division of Water Quality's (Division) Gravity Sewer Minimum Design Criteria adopted February 12, 1996 as applicable; the Division's Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains adopted June 1, 2000 as applicable; and other supporting materials.

North Carolina Professional Engineer's seal, signature, and date:



**SEND THIS FORM & SUPPORTING DOCUMENTATION
WITH REQUIRED ATTACHMENTS TO THE FOLLOWING ADDRESS**

**RALEIGH REGIONAL OFFICE
1628 MAIL SERVICE CENTER
RALEIGH NC 27699-1628**

The Permittee is responsible for tracking all partial certifications up until a final certification is received. Any wastewater flow made tributary to the wastewater collection system extension prior to completion of this Engineer's Certification shall be considered a violation of the permit and shall subject the Permittee to appropriate enforcement actions.