



GRAVITY SEWER, PUMP STATION, AND FORCE MAIN PERMIT APPLICATION

Applicability

- As a part of this project additional public sewer main (gravity or force) is being extended or abandoned
- As a part of this project work involving a public pump station will be completed
- As a part of this project new service taps are proposed
- As a part of this project sewer flow is expected to increase due to land use change or building addition
- As a part of this project flow from a private pump station is expected

If all the above are non-applicable AND only replacement of private service is proposed:
STOP HERE AND CONTACT INSPECTIONS AND PERMITS AT (919) 469-4046

Instructions

Indicate that you have included the following list of required application package items by checking in the space provided next to each item. Failure to submit all required items will lead to additional processing and review time for the permit application.

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- A. Application Form** – Submit one electronic (PDF) copy of the completed and appropriately executed application form as indicated in step D. The application form shall be signed as follows:
 1. in the case of a corporation, by a principal executive officer of at least the level of vice-president, or their duly authorized representative;
 2. in the case of a partnership or limited partnership, by a general partner;
 3. in the case of a sole proprietorship, by the proprietor;
 4. in the case of a municipality, state agency, or other public entity, by either a principal executive officer, ranking elected official, or other duly authorized employee.
 - B. Detailed Plans** – Utility plans are submitted via the plan review process. No additional copies are required. Plans shall conform to the most recent versions of the Town of Cary Standard Specifications, North Carolina Department of Environmental Quality (NCDEQ) Gravity Sewer Minimum Design Criteria, NCDEQ Minimum Design Criteria for the Permitting of Pump Stations and Force Mains, and all other applicable regulations. Plans shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.
 - C. Engineering Calculations (Pump Station/Force Main Applications)** - Submit one set of Engineering Calculations. Engineering Calculations shall include at a minimum: flow quantity calculations, flow velocity calculations, pipe capacity calculations, total dynamic head calculations and system curves, pumping cycle calculations, and structure buoyancy calculations. Engineering Calculations shall be signed, sealed, and dated by a North Carolina licensed Professional Engineer.
 - D. Application Submittal** - Submit application and all supporting documents as indicated during the plan review process.

Application Fee - The fee for projects permitted via the plan review process will be collected prior to project approval. Note: phased plans shall require multiple permits.

Permit Number: _____ (to be completed by Town of Cary)

Applicant Information

Applicant Name:		
Applicant Address:		
City:	State:	Zip:
Telephone Number: ()	Email:	
Owner's or signing official's name and title (if different than applicant):		

Project Information

Project Name (name of subdivision, facility or establishment, etc.):
Project Site Plan Number (Cary, Morrisville, or NCDOT Assigned):

Engineering Firm Information

Engineering Firm Name:		
Engineering Firm Address:		
City:	State:	Zip:
Telephone Number: ()	Email:	
Name and affiliation of contact person who can answer questions about application:		

Permit Information

Project is:	<input type="checkbox"/> New	<input type="checkbox"/> Modification
If this application is being submitted as a result of a modification to an existing permit, provide information below:		
Existing Permit Number:	Issuance Date:	

Design Information

Brief project description:

Information on Wastewater

- Please provide a one- or two-word description specifying the origin of the wastewater (school, subdivision, hospital, commercial facility, industry, apartment, condominium, etc.):
- Wastewater flow was determined from: (show calculation in section a or b)

TOWN OF CARY FLOWRATES	
Land Use	Flow Factor
Single Family Residential	280 GPD per dwelling unit
Multi-Family Residential	100 GPD per bedroom
Office and Institutional	0.09 GPD/SF building space
Commercial	0.12 GPD/SF building space
Industrial	0.20 GPD/SF building space

- TOC approved flowrates per Std. Spec 07010.A.2.b:
- OR** if land use is not included in TOC approved flowrates use 15A NCAC 2T.0114:

3) Volume of wastewater generated by this project (Gallons Per Day):
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4) Nature of wastewater:	%	Domestic/Commercial	%	Industrial	%	Other waste – specify:
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- If wastewater is industrial in nature:
 - Level of pretreatment that has been provided to ensure protection of the receiving collection system and wastewater treatment facility:
 - If a pretreatment permit is required, has one been issued? _____ Yes; _____ No. If yes, please attach a copy of the pretreatment permit. If no, provide date application was submitted:

Summary of Public Gravity Sewer Mains to be Permitted

Diameter (Inches)	Length (Linear Feet)	Material

Minimum Gravity Sewer Design Criteria

Does the subject gravity sewer collection system comply with the most recent versions of the Town of Cary Standard Specifications, NCDEQ Gravity Sewer Minimum Design Criteria, and 15A NCAC 2T .0300?

Yes No. If no, please identify variances and explain below

Summary of Public Pump Stations to be Permitted

No. or Name	Design Flow (MGD)	Pump Operational Points	GPM @	feet TDH

Summary of Public Force Mains to be Permitted

Diameter (Inches)	Length (Linear Feet)	Material

Equipment Utilized

List any equipment being utilized that is not specifically mentioned elsewhere in the application or is not required in the Town of Cary Standard Specifications or NCDEQ Minimum Design Criteria for the Permitting of Pump Stations and Force Mains (e.g., telemetry, hoist, odor control equipment, mechanical bar screens, etc.):

Minimum Design Criteria for Pump Stations and Force Mains

Do the subject pump stations and force mains comply with the most recent versions of the Town of Cary Standard Specifications, NCDEQ Minimum Design Criteria for the Fast-Track Permitting of Pump Stations and Force Mains, and 15A NCAC 2T .0300?

Yes No. If no, please identify variances and explain below

Other Permits/Certifications

Have the following permits/certifications been received or submitted for approval? If yes, indicate date received or submitted. If no, please explain

Wetland/Stream Crossing – General Permit or 401 Certification:

Sedimentation and Erosion Control Plan:

Stormwater:

CERTIFICATIONS

Professional Engineer's Certification:

I, _____, attest that this application for _____ has been reviewed by me and is accurate, complete, and consistent with the information in the engineering plans, calculations, and all other supporting documentation to the best of my knowledge. I further attest that to the best of my knowledge the proposed design has been prepared in accordance with the applicable regulations, including the most recent versions of the Town of Cary Standard Specifications, NCDEQ Gravity Sewer Minimum Design Criteria, NCDEQ Minimum Design Criteria for the Permitting of Pump Stations and Force Mains, and the watershed classification in accordance with NCDEQ guidance. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. I understand that if any offsite easements are required for installation of the gravity sewer, pump station, or force main improvements as shown on the plans, this permit is not valid without legal proof of that easement acquisition.

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

Applicant's Certification:

I, _____, attest that this application for _____ has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application package will be returned as incomplete. I understand that if any offsite easements are required for installation of the gravity sewer, pump station, or force main improvements as shown on the plans, this permit is not valid without legal proof of that easement acquisition. Furthermore, I certify that upon complete installation of the gravity sewer, pump station, or force main improvements permitted through this application form, and Town of Cary approval, the gravity sewer, pump station, or force main infrastructure shall be dedicated to the Town of Cary.

Signature:	Date:
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APPROVAL:

The permit cited in the foregoing application is hereby approved insofar as the protection of public health is concerned as provided in the regulations, standards and criteria adopted under the authority of Chapter 36 of the Code of Ordinances for the Town of Cary, with the following provisions: The official copies of plans accompanying this application have been sealed and stamped with the serial number of this application _____. Only such plans are included in this permit approval, and any erasures, additions, or alterations of the proposed gravity sewer, pump station, or force main improvements will make such approval null and void. This permit shall be effective from the date of site plan approval or as dated below. This permit shall expire one (1) year from the date of site plan approval if the permitted improvements have not been initiated.

APPROVED BY _____