**Plans, specifications and supporting documents shall be prepared in accordance with,** [**15A NCAC 02T .0100**](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)**,** [**15A NCAC 02T .0300**](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)**,** [**Division Policies**](http://portal.ncdenr.org/web/wq/swp/ps/cs) **and** [**good engineering practices**](http://www.ncbels.org/rulesandlaws.html)**. Failure to submit all required items will necessitate additional processing and review time, and may result in return of the application.**

##### *For more information, visit the Water Quality Permitting Section’s collection systems* [*website*](https://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/collection-systems/sewer-extension-permitting)

#####  General – When submitting an application, please use the following instructions as a checklist in order to ensure all required items are submitted. Adherence to these instructions and checking the provided boxes will help produce a quicker review time and reduce the amount of requested additional information.

Unless otherwise noted, the Applicant shall submit one original and one copy of the application and supporting documentation**.**

1. **One Original and One Copy of Application and Supporting Documents**

[ ]  Required unless otherwise noted

1. **Cover Letter (Required for All Application Packages):**

[ ]  List all items included in the application package, as well as a brief description of the requested permitting action.

* Be specific as to the system type, number of homes served, flow allocation required, etc.
* If necessary for clarity, include attachments to the application form.
* If the project is funded by American Rescue Plan Act (ARPA) funds, please include the ARPA project number in the cover letter and in parentheses under Project Name (Section II.1. of the application).
1. **Application Fee (All New and Major Modification Application Packages):**

[ ]  Submit a check or money order dated within 90 days of application submittal and made payable to North Carolina Department of Environmental Quality (NCDEQ). The appropriate fee amount for new and major modification applications may be found at: [Water Quality Permitting Project Fees](https://www.deq.nc.gov/about/divisions/water-resources/permitting/npdes-wastewater/fee-schedule-water-quality-permits).

* Payable to North Carolina Department of Environmental Quality (NCDEQ).
1. **Alternative Sewer Extension (Form: ASEA 07-25) Application (Required for All Application Packages):**

[ ]  Submit the completed and appropriately executed application.

* If necessary for clarity or due to space restrictions, attachments to the application may be made.

[ ]  If the Applicant Type in Item I.2 is a corporation or company, provide documentation it is registered for business with the [North Carolina Secretary of State](http://www.secretary.state.nc.us/Corporations/CSearch.aspx).

[ ]  If the Applicant Type in Item I.2 is a partnership or d/b/a, enclose a copy of the certificate filed with the Register of Deeds in the county of business.

[x]  The project name in Item II.1 shall be consistent with the project name on the plans, specifications, flow acceptance letters, agreements, etc.

[ ]  The Professional Engineer’s Certification on Page 5 of the application shall be signed, sealed and dated by a [North Carolina licensed Professional Engineer](https://www.membersbase.com/ncbels-vs/public/searchdb.asp).

[ ]  The Applicant’s Certification on Page 5 of the application shall be signed in accordance with [15A NCAC 02T .0106(b)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf). Per 15A NCAC 02T .0106(c), an alternate person may be designated as the signing official if a delegation letter is provided from a person who meets the criteria in 15A NCAC 02T .0106(b).

1. [**Section X & XI Attachment**](https://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/collection-systems/sewer-extension-permitting) **(If Applicable):**

[ ]  If the project includes gravity sewer, pump stations with multiple pumps and force mains, include the Section X & XI attachment(s).

1. **Flow Tracking/Acceptance Form (Form:** **FTSE 03-25) (If Applicable):**

[ ]  Submit the completed and appropriately executed Flow Tracking/Acceptance for Sewer Extension Permit Form from the owners of the downstream sewers and treatment facility.

* The flow acceptance indicated in form FTSE 03-25 must not expire prior to permit issuance and must be dated less than one year prior to the application date.
* Submittal of this application and form FTSE 03-25 indicates that owner has adequate capacity and will not violate [G.S. 143-215.67(a)](http://www.ncga.state.nc.us/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-215.67.html).
* Intergovernmental agreements or other contracts will not be accepted in lieu of a project-specific FTSE 03-25.
1. **Engineering Plans (Required for All Application Packages):**

[ ]  Per [15A NCAC 02T .0305(b)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit two sets of detailed plan sets that have been signed, sealed and dated by a [North Carolina licensed Professional Engineer](https://www.membersbase.com/ncbels-vs/public/searchdb.asp), and shall include at a minimum:

* Table of contents with each sheet numbered.
* A general location map with at least two geographic references and a vicinity map.
* Plan and profile views of the sewer extension as well as the proximity of the sewer extension to other utilities and natural features
* Detail drawings of all items pertinent to the sewer extension (including clean-out locations) and pump stations.
* The location of all wells (including usage and construction details if available), streams (ephemeral, intermittent, and perennial), springs, lakes, ponds, and other surface drainage features within 100 feet of the project.
* Minimum separations required per 15A NCAC 02T.0305(f), and where separations cannot be maintained, alternative criteria per 15A NCAC 02T.0305(g).
* Minimum cover for sewer extensions required per 15A NCAC 02T.0305(f) must also be shown clearly on the plans.
* Nodes/Zones listed in calculations and computer models must be accurately reflected on the plans.
* Plans must include lot numbers, zones, approximate pump and top of wet well elevations, and pump model number and capacity in a table format.

[ ]  Plans shall represent a completed design and not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate they are anything other than final plans. However, the plans may be labeled with the phrase: FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION.

1. **Specifications (Required for All Application Packages):**

[ ]  Per [15A NCAC 02T .0305(b)(3)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit specifications that have been signed, sealed and dated by a [North Carolina licensed Professional Engineer](https://www.membersbase.com/ncbels-vs/public/searchdb.asp), and shall include at a minimum:

* Table of contents with each section/page numbered.
* Detailed specifications for pump stations (i.e. packaged grinder pump requirements, valves, controls, etc.)
* Site Work (i.e., earthwork, clearing, grubbing, excavation, trenching, backfilling, compacting, fencing, seeding, etc.)
* Materials (i.e., low pressure mains and laterals, force main, gravity, concrete, method of construction, etc.)
* Electrical (i.e., control panels, transfer switches, automatically activated standby power source, etc.)
* Means for ensuring quality and integrity of the finished product in accordance with the Minimum Design Criteria, including leakage and pressure testing for the sewer extension.

[ ]  Specifications shall represent a completed design and not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate they are anything other than final specifications. However, the specifications may be labeled with the phrase: FINAL DESIGN - NOT RELEASED FOR CONSTRUCTION.

[ ]  Specifications for standard equipment may only be omitted for municipalities with approved standard specifications, but the use of the standard specifications must be noted on each sheet of the plans.

1. **Engineering Calculations (All Application Packages):**

[ ]  Per [15A NCAC 02T .0305(b)(2)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) and [15A NCAC 02T .0305(j)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit engineering calculations that have been signed, sealed and dated by a [North Carolina licensed Professional Engineer](https://www.membersbase.com/ncbels-vs/public/searchdb.asp), and shall include at a minimum:

* Friction/Total Dynamic Head calculations and system curve analysis (with one pump running, two pumps running, etc.)
* Pump selection information including pump curves, manufacturer’s information, and recommended installation guidelines.
* Pump station cycle times and pump run times.
* Minimum velocities in the sewer extension in accordance with the Minimum Design Criteria
* Flotation calculations for all units constructed partially or entirely below grade (i.e. pump stations)

[ ]  If computer models are provided to document system design, the model and corresponding node/zone nomenclature must clearly and accurately reflect the plans and specifications.

**Note that upon completion of the review process and prior to permit issuance, a request for the final plans and specifications will be requested on digital media for our records. You will be notified when this information is requested, as the review may necessitate changes**

1. **Downstream Sewer Evaluations (All Application Packages)**

[ ]  Per [15A NCAC 02T .0305(b)(2)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) and [15A NCAC 02T .0304(h)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit engineering calculations that have been signed, sealed and dated by a [North Carolina licensed Professional Engineer](https://www.membersbase.com/ncbels-vs/public/searchdb.asp), for receiving collection systems:

[ ]  For connection to a gravity sewer, submit:

An evaluation of the gravity sewer based on peak flow from the proposed project and peak flows already tributary to the existing gravity sewer. Provide calculations and detail how existing peak flows were determined.

[ ]  For connection to a pump station, submit:

An evaluation of the existing pump station to pump peak flow from the proposed project and peak flows already tributary to the existing pump station. Provide calculations and detail how existing peak flows were determined.

[ ]  For connection to a force main/low pressures sewer, submit:

An evaluation of the existing system based on peak flows from the proposed project and peak flows already tributary to the existing system. In addition, evaluate the ability of each pump station tributary to the existing system to pump against additional head created by greater flows through the system. Evaluation may include alternative designs such as telemetry to coordinate pumping between pump stations (provided sufficient storage is available). Also include an evaluation of the discharge point of the existing force main/pressure sewer.

1. **Site Maps (All Application Packages):**

[ ]  Submit an 8.5-inch x 11-inch color copy of a USGS Topographic Map of sufficient scale to identify the entire project area and closest surface waters.

* Location of the project (gravity sewer, pump stations & force main)
* Downstream connection points and permit number (if known) for the receiving sewer

[ ]  Include a street level map showing general project area.

1. **Existing Permit (All Modification Packages):**

[ ]  Submit the most recently issued existing permit.

[ ]  Provide a list of any items within the permit the Applicant would like the Division to address during the permit modification (i.e., permit description, flow allocation, treatment facility, etc.).

1. **Power Reliability Plan (All Application Packages):**

[ ]  Per [15A NCAC 02T .0305(h)(1)(D)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit documentation of power reliability for simplex/vacuum units.

[ ]  Per [15A NCAC 02T .0305(h)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit documentation of power reliability for pumping stations.

* This alternative is only available for average daily flows less than 15,000 gallons per day
* It shall be demonstrated to the Division that the portable source is owned or contracted by the applicant and is compatible with the station. The Division will accept a letter signed by the applicant (see [15A NCAC 02T .0106(b)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)) or proposed contractor, stating that “the portable power generation unit or portable, independently-powered pumping units, associated appurtenances and personnel are available for distribution and operation of this pump station.”
* **If the portable power source or pump is dedicated to multiple pump stations, an evaluation of all the pump stations' storage capacities and the rotation schedule of the portable power source or pump, including travel timeframes, shall be provided in the case of a multiple station power outage. (Required at time of certification)**
1. **Final Environmental Document (If Applicable):**

[ ]  Per [15A NCAC 02T .0105(c)(4)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit one copy of the environmental assessment and one copy of the final environmental document (i.e., Finding of No Significant Impact or Record of Decision).

[ ]  Include information on any mitigating factors from the Environmental Assessment that impact the design and/or construction of the subject sewer.

1. **Certificate of Public Convenience and Necessity (All Application Packages for Privately-Owned Public Utilities):**

[ ]  Per [15A NCAC 02T .0115(a)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) provide the Certificate of Public Convenience and Necessity from the [North Carolina Utilities Commission](http://www.ncuc.commerce.state.nc.us/) demonstrating the Applicant is authorized to hold the utility franchise for the area to be served by the sewer extension, or

[ ]  Provide a letter from the [North Carolina Utilities Commission’s Water and Sewer Division Public Staff](http://www.pubstaff.commerce.state.nc.us/pswater/pswater.htm) stating an application for a franchise has been received and that the service area is contiguous to an existing franchised area or that franchise approval is expected.

1. **Operational Agreements (Applications from HOA/POA and Developers for lots to be sold):**

[ ]  Home/Property Owners’ Associations

[ ]  Per [15A NCAC 02T .0115(c)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit the properly executed [Operational Agreement (FORM: HOA)](https://www.deq.nc.gov/hoa-12-23-sewer-extensions/download?attachment).

[ ]  Per [15A NCAC 02T .0115(c)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit a copy of the Articles of Incorporation, Declarations and By-laws.

[ ]  Developers of lots to be sold

[ ]  Per [15A NCAC 02T .0115(b)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), submit the properly executed [Operational Agreement (FORM: DEV)](https://www.deq.nc.gov/dev-12-23-sewer-extensions/download?attachment).

**THE COMPLETED APPLICATION AND SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO:**

**NCDEQ/DWR**

**WATER QUALITY SECTION**

**PERCS UNIT**

|  |  |
| --- | --- |
| By U.S. Postal Service: | By Courier/Special Delivery: |
| 1617 Mail Service Center | [512 N. SALISBURY ST.](http://maps.google.com/maps?q=512+North+Salisbury+Street,+Raleigh,+NC&hl=en&sll=37.0625,-95.677068&sspn=33.077336,56.162109&vpsrc=0&hnear=512+N+Salisbury+St,+Raleigh,+North+Carolina+27603&t=m&z=16) SUITE 925 |
| RALEIGH, NORTH CAROLINA 27699-1636 | [RALEIGH, NORTH CAROLINA 27604](http://maps.google.com/maps?q=512+North+Salisbury+Street,+Raleigh,+NC&hl=en&sll=37.0625,-95.677068&sspn=33.077336,56.162109&vpsrc=0&hnear=512+N+Salisbury+St,+Raleigh,+North+Carolina+27603&t=m&z=16) |
|  |  |
| TELEPHONE NUMBER: (919) 807-6312 |  |

Application Number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (to be completed by DWR)

1. **APPLICANT INFORMATION**:
2. Applicant's name:       (company, municipality, HOA, utility, etc.)
3. Applicant type: [ ] [ ]  Individual [ ] [ ]  Corporation [ ] [ ]  General Partnership [ ] [ ]  Privately-Owned Public Utility

[ ] [ ]  Federal [ ] [ ]  State [ ] [ ]  Municipal [ ] [ ]  County

1. Signature authority’s name:       per [15A NCAC 02T .0106(b)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)

Title:

1. Applicant’s mailing address:

City:       State:       Zip:      -

1. Applicant’s contact information:

 Phone number: (   )    -     Email Address:

1. **PROJECT INFORMATION:**
2. Project name:
3. Application/Project status: [ ]  Proposed (New Permit) [ ]  Existing Permit/Project [ ]  ARPA funded

If a modification, provide the existing permit number: WQ00      and issued date:

If new construction but part of a master plan, provide the existing permit number: WQ00

1. County where project is located:
2. Approximate Coordinates (Decimal Degrees): Latitude:   .     ○ Longitude: -  .     ○
3. **CONSULTANT INFORMATION:**
4. Professional Engineer:       License Number:

Firm:

Mailing address:

City:       State:       Zip:      -

Phone number: (   )    -     Email Address:

1. **WASTEWATER TREATMENT FACILITY (WWTF) INFORMATION:**
2. Facility Name:       Permit Number:

Owner Name:

1. **RECEIVING DOWNSTREAM SEWER INFORMATION:**
2. Permit Number(s):

System Wide Collection System Permit Number(s):

Owner Name(s):

1. **GENERAL REQUIREMENTS**
2. If the Applicant is a Privately-Owned Public Utility, has a Certificate of Public Convenience and Necessity been submitted? [ ]

[ ] [ ]  Yes [ ]  [ ] No [ ] [ ] N/A

1. If the Applicant is a Developer of lots to be sold, has a [Developer’s Operational Agreement (FORM: DEV)](https://www.deq.nc.gov/dev-12-23-sewer-extensions/download?attachment) been submitted?

[ ] [ ]  Yes [ ] [ ] No [ ] N/A

1. If the Applicant is a Home/Property Owners' Association, has an [Operational Agreement (FORM: HOA)](https://www.deq.nc.gov/hoa-12-23-sewer-extensions/download?attachment) been submitted?

[ ] [ ]  Yes [ ]  [ ] No [ ] [ ] N/A

1. Origin of wastewater: (check all that apply):

[ ] [ ]  Residential Owned [ ] [ ]  Retail (stores, centers, malls) [ ] [ ] [ ] [ ]  Car Wash

[ ]  Residential Leased [ ] [ ]  Retail with food preparation/service [ ] [ ] [ ]  Hotel and/or Motels

[ ]  School / preschool / day care [ ] [ ]  Medical / dental / veterinary facilities [ ] [ ] [ ]  Swimming Pool /Clubhouse

[ ] [ ]  Food and drink facilities [ ] [ ]  Church [ ] [ ] [ ] [ ] [ ]  Swimming Pool/Filter Backwash

[ ]  Businesses / offices / factories [ ] [ ] [ ]  Nursing Home [ ] [ ]  Other (Explain in Attachment)

1. Is/was an Environmental Assessment required under [15A NCAC 01C](http://portal.ncdenr.org/c/document_library/get_file?uuid=baa8513f-7441-4074-8c83-31498fc037b5&groupId=38364)? [ ] [ ]  Yes [ ] [ ]  No

If yes, submit the appropriate final environmental document (FONSI, ROD, etc.)

1. Nature of wastewater :       % Domestic/Commercial       % Other waste – specify:

       % Industrial ([See 15A NCAC 02T .0103(20)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)) [ ]

1. Wastewater generated by project:       GPD (per [15A NCAC 02T .0114](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) and G.S. 143-215.1)

Has a flow reduction been approved under [15A NCAC 02T .0114(f)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)? [ ] [ ]  Yes [ ] [ ]  No

**If yes, provide a copy of approval**

1. Summarize wastewater generated by project:

|  |  |  |  |
| --- | --- | --- | --- |
| **Establishment Type** | **Daily Design Flow a** | **No. of Units** | Flow |
|       |       gal/      |       |       GPD |
|       |       gal/      |       |       GPD |
|       |       gal/      |       |       GPD |
|       |       gal/      |       |       GPD |
|       |       gal/      |       |       GPD |
|       |       gal/      |       |       GPD |
| Total |       GPD |

a See [15A NCAC 02T .0114(b), (d), (e)(1) and (e)(2)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) for caveats to wastewater design flow rates (i.e., minimum flow per dwelling; proposed unknown non-residential development uses; public access facilities located near high public use areas; and residential property located south or east of the Atlantic Intracoastal Waterway to be used as vacation rentals as defined in [G.S. 42A-4](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/BySection/Chapter_42A/GS_42A-4.html)).

b Per 15A NCAC 02T .0114(c), design flow rates for establishments not identified below shall be determined using available flow data, water using fixtures, occupancy or operation patterns, and other measured data.

1. **PRESSURE SEWER DESIGN CRITERIA –** [**15A NCAC 02T .0305**](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)**:**
2. Number of simplex pump stations (STEP tanks/effluent pumps, vacuum pits, etc.) provided:
3. What is the nearest 100-year flood elevation to the facility?       feet mean sea level.

Is any of the proposed project located within the 100-year flood plain? [ ] [ ]  Yes [ ] [ ]  No

1. If Yes, are the following items provided per [15A NCAC 02T .0305(e)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf):

Water-tight seals on all station hatches and manholes; **and**

Control panels vents extend two feet above the100-year flood plain elevation? [ ] [ ]  Yes [ ] [ ]  No [ ] [ ]  N/A

If No, what measures are being taken to protect them against flooding?

1. Volume of storage in wet well above pump on elevation:       Gallons **(include calculations)**
2. How power reliability will be provided in accordance with [15A NCAC 02T .0305(h)(D)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf):

[ ] [ ]  Wet well storage provides 24 hours worth of wastewater storage; or

[ ] [ ]  Wet well storage provides wastewater storage based on power reliability and response times

 [(See “Policy for Meeting Reliability Requirements”)](http://ncdenr.s3.amazonaws.com/s3fs-public/Water%20Quality/Surface%20Water%20Protection/PERCS/WCS%20%28Sewer%20Extension%29/Reliability%20Requirements%20for%20Simplex%20Pumps.pdf)

* **Provide 3 years of power history date in the area.**
* **Provide response time to replace a failed pump. This would include travel time, time to replace pump, etc.**
* **Wet well storage would be based on whichever is greater.**

All other pump stations meet the reliability requirements of [15A NCAC 02T .0305(h)(1)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf): [ ] [ ]  Yes [ ] [ ]  No [ ] [ ]  N/A

1. Summarize simplex pump station design elements:

|  |  |  |
| --- | --- | --- |
| **Design Element** | **Plan Sheet Reference** | **Specification Reference** |
|
| Emergency Contact Placard or Sticker |       |       |
| Screened Wet Well Vent |       |       |
| Restricted Access Details |       |       |
| Control Panel |       |       |
| High Water Alarms (Audible & Visual) |       |       |
| Valves (Check, Gate, etc) |       |       |
| Air Relief Valves |       |       |

1. Summarize the pipe length by diameter to be permitted. Lines from a building to the septic or pump tank should be excluded. (provide attachments if necessary)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Zone | **From Node** | To Node | Diameter (in) | **Length (feet)** | **# Pumps in Zone** | **Pump Model Specified for Zone** |
|       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |
|       |       |       |       |       |       |       |

1. Air release valve station locations per [15A NCAC 02T .0305(i](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)) (provide attachments if necessary)

|  |  |  |
| --- | --- | --- |
| **Air Release Valve #** | **Station** | **Plan Sheet Reference** |
|
|       |       |       |
|       |       |       |
|       |       |       |

1. **SETBACKS & SEPARATIONS – (02B .0200** & **15A NCAC 02T .0305(f)):**
2. Does the project comply with all separations found in [15A NCAC 02T .0305(f) & (g)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) [ ] [ ]  Yes[ ]  [ ]  No
* 15A NCAC 02T.0305(f) contains minimum separations that shall be provided for sewer systems:

|  |  |
| --- | --- |
| Setback Parameter\* | Separation Required |
| Storm sewers and other utilities not listed below (vertical) | 24 inches |
| Water mains (vertical-water over sewer including in benched trenches) | 18 inches |
| Water mains (horizontal) | 10 feet |
| Reclaimed water lines (vertical - reclaimed over sewer) | 18 inches |
| Reclaimed water lines (horizontal - reclaimed over sewer) | 2 feet |
| \*\*Any private or public water supply source, including any wells, WS-I waters of Class I or Class II impounded reservoirs used as a source of drinking water | 100 feet |
| \*\*Waters classified WS (except WS-I or WS-V), B, SA, ORW, HQW, or SB from normal high water (or tide elevation) and wetlands (see item IX.2) | 50 feet |
| \*\*Any other stream, lake, impoundment, or ground water lowering and surface drainage ditches | 10 feet |
| Any building foundation | 5 feet |
| Any basement | 10 feet |
| Top slope of embankment or cuts of 2 feet or more vertical height | 10 feet |
| Drainage systems and interceptor drains | 5 feet |
| Any swimming pools | 10 feet |
| Final earth grade (vertical) | 36 inches |

* [15A NCAC 02T.0305(g)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) contains alternatives where separations in [02T.0305(f)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) cannot be achieved.
* \*\*Stream classifications can be identified using the Division’s [NC Surface Water Classifications webpage](http://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=6e125ad7628f494694e259c80dd64265)
* If noncompliance with [02T.0305(f) or (g),](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf) see Section IX of this application
1. Does the project comply with separation requirements for wetlands? (50 feet of separation) [ ] [ ]  Yes[ ]  [ ]  No [ ]  N/A
* See the Division’s draft separation requirements for situations where separation cannot be meet
* No variance is required if the alternative design criteria specified is utilized in design and construction
* As built documents should reference the location of areas effected
1. Does the project comply with setbacks found in the river basin rules per [15A NCAC 02B .0200](http://reports.oah.state.nc.us/ncac/title%2015a%20-%20environment%20and%20natural%20resources/chapter%2002%20-%20environmental%20management/subchapter%20b/subchapter%20b%20rules.pdf)? [ ] [ ]  Yes[ ]  [ ]  No [ ]  N/A
* This would include Trout Buffered Streams per [15A NCAC 2B.0202](http://reports.oah.state.nc.us/ncac/title%2015a%20-%20environment%20and%20natural%20resources/chapter%2002%20-%20environmental%20management/subchapter%20b/15a%20ncac%2002b%20.0202.html)
1. Does the project require coverage/authorization under a 404 Nationwide or [ ]  Yes [ ]  No

individual permits or 401 Water Quality Certifications?

* Information can be obtained from the [401 & Buffer Permitting Branch](http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits)
1. Does project comply with [15A NCAC 02T.0105(c)(6](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)) (additional permits/certifications)? [ ]  Yes [ ]  No

Per [15A NCAC 02T.0105(c)(6)](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), directly related environmental permits or certification applications are being prepared, have been applied for, or have been obtained. Issuance of this permit is contingent on issuance of dependent permits (erosion and sedimentation control plans, stormwater management plans, etc.).

1. Does this project include any sewer collection lines that are deemed “high-priority?”

Per [15A NCAC 02T.0402](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), “high-priority sewer” means “any aerial sewer, sewer contacting surface waters, siphon, or sewer positioned parallel to streambanks that is subject to erosion that undermines or deteriorates the sewer.

[ ] [ ]  Yes[ ]  [ ]  No

* If yes, include an attachment with details for each line, including type (aerial line, size, material, and location).

**High priority lines shall be inspected by the permittee or its representative at least once every six-months and inspections documented per 15A NCAC 02T.0403(a)(5) or the permitee’s individual System-Wide Collection permit.**

1. **CERTIFICATIONS:**
	* + 1. Does the submitted system comply with [15A NCAC 02T](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf), the [Minimum Design Criteria for the Permitting of Pump Stations and Force Mains (latest version),](http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/collection-systems/sewer-extension-permitting) and the [Gravity Sewer Minimum Design Criteria (latest version)](http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/collection-systems/sewer-extension-permitting) as applicable?

[ ] [ ]  Yes [ ] [ ]  No

“If no, you must provide the application number of the variance pending approval in order to proceed with this application. Variance No. WQSV\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The Variance/Alternative Sewer Application form is available on the [Sewer Extension Permitting](https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.deq.nc.gov%2Fabout%2Fdivisions%2Fwater-resources%2Fwater-quality-permitting%2Fcollection-systems%2Fsewer-extension-permitting&data=05%7C02%7Czac.lentz%40deq.nc.gov%7Cd5c52a23b6a64e1eb5eb08dd9ee003bc%7C7a7681dcb9d0449a85c3ecc26cd7ed19%7C0%7C0%7C638841407148022374%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=jL0D0HdLgRAOTMq%2BJIXaGbIgynqlAxIiYgWgQMhF5eg%3D&reserved=0) website.

1. Professional Engineer's Certification:

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_attest that this application for

(Professional Engineer’s name from Application Item III.1.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Facility name from Application Item II.1.)

has been reviewed by me and is accurate, complete and consistent with the information supplied in the plans, specifications, engineering 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 this application package and its instructions, as well as all applicable regulations and statutes. Although other professionals may have developed certain portions of this submittal package, 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.

**NOTE** – In accordance with General Statutes [143-215.6A](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-215.6A.html) and [143-215.6B](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-215.6B.html), any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed $10,000, as well as civil penalties up to $25,000 per violation.

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

1. Applicant's Certification per[**15A NCAC 02T .0106(b):**](http://portal.ncdenr.org/c/document_library/get_file?p_l_id=1169848&folderId=10351930&name=DLFE-120266.pdf)

I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_attest that this application for

(Signature Authority’s name & title from Application Item I.3.)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Facility name from Application Item II.1.)

has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that any discharge of wastewater from this non-discharge system to surface waters or the land will result in an immediate enforcement action that may include civil penalties, injunctive relief, and/or criminal prosecution. I will make no claim against the Division of Water Resources should a condition of this permit be violated. I also understand that if all required parts of this application package are not completed and that if all required supporting information and attachments are not included, this application package will be returned to me as incomplete. **As the permittee for the pressure sewer system, I understand I will be required to own, maintain, and operate all individual pump stations**.

**NOTE** – In accordance with General Statutes [143-215.6A](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-215.6A.html) and [143-215.6B](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/BySection/Chapter_143/GS_143-215.6B.html), any person who knowingly makes any false statement, representation, or certification in any application package shall be guilty of a Class 2 misdemeanor, which may include a fine not to exceed $10,000 as well as civil penalties up to $25,000 per violation.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_