

### PUBLIC WATER DISTRIBUTION SYSTEM EXTENSION OR MODIFICATION APPLICATION

#### INSTRUCTIONS FOR FORM: WDSEM

The City of Concord will not accept this application unless all of the following instructions are adhered to: Prior to the submittal of an application package for publicly maintained and operated water distribution system extensions/modifications, the civil engineering design drawings shall be approved through the appropriate technical review process as required by the Director of Engineering and defined by the City of Concord Development Ordinance. The design drawings must be prepared in accordance with Subchapter 15A NCAC 18C of the North Carolina Administrative Code, the Water and Sewer Authority of Cabarrus County's "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County," the City of Concord Code of Ordinances, and good engineering practices. Failure to submit all of the required items will lead to additional fees and processing and review time for the application.

A. <b>A</b>	Application Form: (All Application Packages):  Submission of an executed application form. Incomplete applications may result in the application being returned. The City of Concord will only accept application packages that have been fully completed with all applicable items addressed. The project name should be consistent with the project name on the plans and supporting data.  If this project involves a modification of an existing "Authorization to Construct," submit one copy of the existing "Authorization to Construct." Please note that modifications must meet current design standards.
В. А	<b>Application Fee:</b> (All Application Packages): Each application shall be subject to an Engineering Review fee in the amount as required by the current "City of Concord Fiscal Year Fees and Charges Schedule" A copy current City of Concord Fiscal Year Fees and Charges Schedule can be viewed on the City of Concord web page at <a href="www.concordnc.gov">www.concordnc.gov</a> under "Departments" – "Finance" - "Adopted Fees Schedule"
C. <b>D</b>	Digital Copy of Plans (All Application Packages):  Submit one digital copy of the complete design drawings in PDF format are to be uploaded to the Accela online portal in the applicable case at https://accela1.cabarruscounty.us/CitizenAccess/, unless otherwise specified.
D. <b>D</b>	Detailed Plans and Specifications: (All Application Packages):  Submission of the final design drawing plan set must be signed, sealed, and dated by a N.C. Professional Engineer. The Water and Sewer Authority of Cabarrus County's "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County" and the City of Concord Development Ordinance and Code of Ordinances Utilities Article and Technical Specifications must be adhered to without exception. Use of the Water and Sewer Authority of Cabarrus County's (WSACC) "Standard Specifications for Wastewater Collection and Water Distribution Construction for Cabarrus County," and the City of Concord Development Ordinance, Code of
П	Ordinances Chapter 62 and Technical Standards must be noted on each sheet of the plans.
	<ul> <li>Design plans must include but shall not be limited to the following minimum items:</li> <li>Water distribution system extensions and/or modifications shall be designed in accordance with all applicable federal, state, and local regulations and standards.</li> <li>Engineering plans shall be sealed by a North Carolina registered professional engineer and submitted on 24-inch by 36-inch sheets with the approved City of Concord border and logo.</li> </ul>

- The horizontal scale shall be one-inch equals 40 feet and the vertical scale shall be one-inch equals 4 feet.
- A general location map, a North arrow, plan and profile views of the water extension as well as the proximity of the sewer
  extension to other utilities and natural features, and detail drawings of all items pertinent to the water extension.
- Depict minimum separations on the plans, in accordance with 15A NCAC 18C and the City of Concord's ordinance, policies, and specifications. Clearly indicate on the plans, the sections where the minimum separations cannot be maintained and the ferrous pipe material is required.
- Minimum cover over water extensions must also be shown clearly on the plans, in accordance with 15A NCAC 18C and the City of Concord's ordinance, policies, and specifications.
- Plans and specifications must not be labeled with preliminary phrases (e.g., FOR REVIEW ONLY, NOT FOR CONSTRUCTION, etc.) that indicate that they are anything other than final plans and specifications.

Cross connection control in accordance with the City of Concord Water Resource Department's "Backflow Prevention Ordinance and Cross Connection Control Ordinance" must be specified on the drawings and details provided.  • The City of Concord Backflow Manual and details can be viewed on the City of Concord web page at <a href="www.concordnc.gov">www.concordnc.gov</a> under "Departments" – "Water Resources" – "Backflow Prevention Documents" or a copy can be obtained from the Water Resources Department.
<ul> <li>Engineering Calculations (All Application Packages):</li> <li>Hydraulic design calculations signed, sealed, and dated by a N.C. Professional Engineer for the proposed public water system and domestic service and fire service, as applicable.</li> <li>The proposed extension shall be able to produce the required fire flows, including but not limited to any necessary pumping or storage, throughout the proposed extension without negatively impacting the existing system. Documentation of this ability shall be submitted to the Director of Engineering or his/her designee for approval.</li> </ul>
F. City of Concord Water Distribution System Technical Design Checklist (WDSTD-Checklist):  The proposed water distribution system design conforms to the requirements indicated in City of Concord Water Distribution System Technical Design Checklist.

A DIGITAL COPY OF THE COMPLETED APPLICATION PACKAGE, INCLUDING PLANS, SUPPORTING INFORMATION AND MATERIALS, SHOULD BE UPLOADED TO ACCELA ONLINE PORTAL IN THE APPLICABLE CASE AT <a href="https://accela1.cabarruscounty.us/CitizenAccess/">https://accela1.cabarruscounty.us/CitizenAccess/</a>, UNLESS OTHERWISE SPECIFIED.

For Accela Case Inquiries, Contact:

CITY OF CONCORD
Planning & Neighborhood DevelopmentZoning Services
Post Office Box 308
Concord, North Carolina 28026-0308
Telephone Number: (704) 920-5152

For Engineering Design Inquiries, Contact:

CITY OF CONCORD
Engineering Department
Post Office Box 308
Concord, North Carolina 28026-0308
Telephone Number: (704) 920-5425

FORM: WDSEM 11/2023 Instructions Page 2 of 2



## WATER DISTRIBUTION SYSTEM EXTENSION OR MODIFICATION APPLICATION

(THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL)

TO BE COMPLETED BY THE CITY OF CONCORD

		Planning Proj	ect No:						
		Engineering Pro	oject No:						
		ATC No							
	╽┕	THETW	<i>.</i>						
	1.)	Project Title:							
	(Project name of title as indicated on the								
Ī		drawings)							
_ ا		Description of							
Ö	2.)	project location:	(Example: Site located on (Road name) SR ####, approx #### linear feet (North, South, West or East) of the intersection of Road name (SR ####) and Road Name (SR ####)						
nat	,	Cabarrus County	(SK #### )						
Lic	4.)	Parcel Identification Number:			4a ) Bawaal	A			
Inf	,	Number.			4a.) Parcel				
ct	5.)	Site Zoning and use:				5a.) Min. Fire Flow (Per NC Fire Code)		0 psi	
A. Project Information						( )		% Domestic	
Pro								% Commercial	
⋖					6a.) Estimated Wat	er Usage:		% Industrial	
		Area Commercial or						% Other use (Specify)	
	6.)	Industrial Building		(sq. ft.)				<del></del>	
	7a.)	Description of Facility to be served.			7b.) Number of Lots		7c.) Number of U	nits	
		Additional description			1,				
	7 <b>d.</b> )	information:							
					(Title)				
_	(Name of legal owner, board, council, and/or authorized official with title; as defined in						(Applicant's Street	or Box Number)	
ţi		ty records and/or a registered age, hereby referred to as the Applic		IC Secretary of State C	orporation				
B. Applicant Information					_				
orr	(Name of Applicant's company, city, town, corporation, sanitary district, water company  (Applicant's City, State, Zip Code)								
Inf	(Name of Applicant's company, city, town, corporation, saintary district, water company or other defined in property records and/or as listed in the NC Secretary of State Corporation filings. as applicable.)						(Applicant's City,	State, Zip Code)	
ır		11	ings. as applicable.)						
ica									
ldc		(Appli	cant's Phone Numl	ber)		(Applicant's Facsimile Number)			
₹									
B.		(Nama with T	(Name) itle and Email of cont	act nerson	(Email)		(Amiliant's E	anoil Addresse)	
			ver questions about ap				(Applicant's E	man Address)	
					REQUIRED				
Applicant is to attach documentation of their signature authority if signing for a corporation and documentation of ownership if s							of ownership if signing as owner.		

eer	(Typed name of North Carolina Professional Engineer)	(Company Name)					
Design Engineer Information							
esign Engir Information	(NCPE Registration Number)	(Street or Box Number)					
ign orm							
es Inf	(Phone Number)	(City, State, Zip Code)					
С. D							
	(Name and affiliation of contact person, who can answer questions about application)	(Email Address)					
	□ New						
	1.) Project is: Modification (of an existing Authorize	ration to Construct)					
تِ	If Modification, specify the ATC Number	•					
D. Applicant Information	2.) City of Concord	·· <u></u>					
т	Owner of Water Distribution System Supplying Potable Water	r To This Project					
nfo	3a.) City of Concord Water System	3b.) 01-13-010					
nt I	Name of Water System	Public Water Supply Identification No.					
ica	3c.) 22-00085 3d.) February 18, 2022	3d.) Cabarrus					
ldď	WSMP No: WSMP Submittal Date:	County					
∀ .	3e.)By my signature below, I, <u>Jacklyn Beth Deal, Director of Engineering</u> , certify that the previously submitted WSMP contains the						
	information required by 15A NCAC 18C .0307(c) for the project defined in the attached engineering plans and specifications.						
1							
	(Signature of Engineering Director)	(Doto)					
	(Signature of Engineering Director)	(Date)					
	E. Engineer's	s Report					
	E. Engineer's	s Report					
	E. Engineer's  1a.)  Owner of the Existing Water Main at Tie-in(s)	S Report  1b.) Existing Water Main Diameter(s)					
	1a.) Owner of the Existing Water Main at Tie-in(s)  2.) Volume of water demand to be allocated for this particular	S Report  1b.) Existing Water Main Diameter(s) r project: gallons per day.					
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	NC Fire Code Duration (hour)  {(Average Water Demand in gpd X Peaking Factor) plus (Minimum fire flow demand X NC Fire Code Duration Fire Demand) in gallons}  (gallor								(gallons per day)				
Ì	,	5b.) Peak demand of the project: Peak potable water daily demand plus minimum fire flow {(Average Water Demand X Peaking Factor) plus (Minimum fire flow demand in gpm at 20 psi)} (gallons per minute)											
}	6.) l	6.) If the water system does not provide fire flow, indicate the minimum calculated pressure at domestic peak water demand (non-fire flow):  Psig  Per Title 15A NCAC 18C Rule 0.0901 – A minimum pressure of 30 psi must be maintained throughout the system.  Attach the supporting calculations in confirmation that the calculated system pressure indicated above and the proposed system complies with the Title 15A NCAC 18C Rule 0.0901.											
	7.) l	7.) If the water system does provide fire flow, indicate the minimum calculated pressure at domestic peak water demand [Potable (Domestic) plus fire flow]: Psig  Per Title 15A NCAC 18C Rule 0.0901 – A minimum pressure of 20 psi must be maintained throughout the system.  Attach the supporting documentation and calculations in confirmation that minimum system pressure indicated above complies with the Title 15A NCAC 18C Rule 0.0901.											
	8.) [	Does the project	meet the fire	flow requ	uirements sp	ecified b	y the public wa	ater sys	tem?		Yes	□No	□ N/A
	9.)	Summary of wa			•	ch addit	ional sheets	f neces	ssary)		T		
	ı	Diameter (in.)		ength (I hydrant leg	in. ft.) is and services)	Low E	levation (ft.)	High	Elevat	tion (ft.)	Qua (E	ntity of the exclude blow-of	Main-line Valves ff assembly valves)
I													
ł													
				1			<del></del>						
	10.) Number of hydrants with guard valves			Number of elease valves	11b.) Station location of air-release valves			c.) Elevation of air-release valves					
ŀ													
l													
							System Hyd						
ŀ	12.) Closest existing fire hydrant - (Include location on hydr						· · ·				·		
ļ		Road name/locat from proj		nce				w Rate Residual Pres gpm) (Pounds per se					
ŀ													
l	13.)	Applicable Pr	essure Zor	e - (El	evated Sto	rage Ta	ank)				1		
l		Name	Location		k Capacity Ele Elevation -Tan		Pressure Zone El (Tank Overflo		,	nt Test Rep ater Level	port- Dis		roposed water system tion in <mark>(miles)</mark>
ŀ		REQUIRED	- Attach se	aled hy	draulic ca	Iculatio	on report(s)	with Fi	ire Hy	drant F	low Test	Report a	nd exhibits.
İ				_								-	
DESIGN COMPLIANCE CERTIFICATION													
	14.) Does the subject water distribution system comply with the (latest version) of State of North Carolinas' Administrative Code, Subchapter 15A NCAC 18C, the Water and Sewer Authority of Cabarrus County Standard technical Specifications for wastewater Collection and Water Distribution Construction for Cabarrus County, and the City of Concord Development Code, Code of Ordinances, Policies and Technical Standards; as applicable?  Yes No If No, to City of Concord Design Standards; please reference the pertinent minimum design criteria and indicate why an exception is requested. SUBMIT TWO COPIES OF SPECIFICATIONS OR CALCULATIONS												
			PERTIN	ENI TO	THE EXCE	≁HON W	/ITH YOUR AI	'PLICA	ATION.				

S	15.) Have the following permits/encroachments/certifications been s associated project? If "yes," submit a copy of all applicable						
OTHER PERMITS	US Army Corp 404 or NCDENR DWQ 401wetland permit?	☐ Yes [	☐ No	□ N/A			
	Sedimentation and Erosion Control Plan?	☐ Yes [	☐ No	□ N/A			
Д П	Stormwater Management Permit?	☐ Yes	☐ No	□ N/A			
里	NCDOT Encroachment?	☐ Yes	☐ No	□ N/A			
F. OT	Environmental Assessment?		☐ Yes ☐ N/A (If Yes, Submit FONSI or EIS)				
is conce applicable with the according Environ. Any eraca approval RESPOI CONSU ERROR LIABIL UPON TO DRAWI RELIAN The off (ATC)  I, Jacl ground: Carolin policies Concorthe app shall p	ans and specifications cited in the foregoing application, including any provisos in the med as provided in the rules, standards and criteria adopted under the authority of Note le laws, rules, standards and criteria, and other approvals and licenses that may be resunderstanding that upon installation of such works, its operation shall be placed unding to best accepted practice and in accordance with the recommendations of the City mental Health.  Sures, additions or alterations of the proposed improvements except those permitted is does not constitute a warranty of the design, construction or future operation of the NSIBLE FOR ERRORS IN DESIGNS, CALCULATIONS, DRAWINGS OR STAT LTANTS, SURVEYORS OR ENGINEERS. THE CITY AND ITS STAFF ARE NEW SOR DEFICIENCIES IN PLANS SUBMITTED TO THE CITY FOR REVIEW AND ITS FOR ERRORS CONTAINED IN PLANS SUBMITTED TO THE CITY. THE TO ESTABLISH ANY DUTY OR RELATIONSHIP (SUCH AS A THIRD PARTY NG. PARTIES USING THIS DOCUMENT SHOULD CONDUCT THEIR OWN IN ICC ON THIS DOCUMENT.  Inicial copies of plans and specifications accompanying this application have number for this application package and its contents meet all applicable als Administrative Code, the Water and Sewer Authority of Cabarrus Cour and specifications as presented. The denial of the issuance of a permit, so dicant's proposed activities or plan which will be required in order that reclude or otherwise bar the City from denying a permit, which incontation not previously known by the Director of Engineering or the applicant.	CGS 130A-315 and quired by the local, er the care of a com of Concord through in 15A NCAC 18C water system. THE EMENTS SUBMIT OT RESPONSIBLE ND APPROVAL. TO SIGNATURE OF BENEFICIARY) WE been sealed and me and contains standards of Subty Standard Speculipect to the provise for the denial at the applicant marporates such character of the contains and the special substitution.	d 130Å-317, state or fenpetent per h the delegation of the delay obtain	7. This approval does not address all deral government. This approval is given son, and the operation shall be carried out ated authority of Division of  make this approval null and void. This ID ITS STAFF ARE NOT APPLICANTS, THEIR TECHNICAL ADING OR CORRECTING ANY OF CONCORD DISCLAIMS ANY OF CONCORD DISCLAIMS ANY OF REALIED AND THIS PLAN OR FOR MAKING DECISIONS IN DECISIONS IN THE INTERPRETATION OF CONSTRUCT OF THE ORDER OF THE O			
Signature: , Date: ,							
	Jacklyn Beth Deal, PE, Director of Engineering						

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#### **Professional Engineer's Certification:**

As a duly registered Professional Engineer in the State of North Carolina, I certify that this application has been reviewed by me and is accurate, complete and consistent with the information supplied 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 and supporting documentation has been prepared in accordance with and subject to the Water and Sewer Authority of Cabarrus County's standard specifications; the City of Concord's ordinances, policies, and standard specifications, and the North Carolina Administrative Code for water distribution systems. In the event of conflict between the Water and Sewer Authority of Cabarrus County's standard specifications; the City of Concord's ordinances, policies, and standard specifications, or the North Carolina Administrative Code, the more restrictive requirements shall apply. 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. Although the attached City of Concord Water System Supplied information report incorporates data provided by others, inclusion of these materials under my seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design. Note: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application 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, and referral to the State Board of Registered Professional Engineers and Surveyors.

(Signature of North Carolina Professional Engineer)	(Company Name)
(Type Name Signed Above)	(Street or Box Number)
(NCPE Registration Number)	(City, State, Zip Code)
(Seal & Signature Date)	(Email Address)
(Phone Number)	(Facsimile Numbers)
(Engine	eer's seal)

#### **Applicant's Certification:**

This application is made under and in full accord with the provision of NCGS 130A-317, and such other statutes as related to public water systems. The applicant agrees that no change or deviation from the engineering plans and specifications approved by the Division of Environmental Health will be made except as allowed by 15A NCAC 18C .0306 or with the written consent and approval of the City of Concord Director of Engineering or the Directors' authorized representative. The applicant agrees that a professional engineer licensed to practice in the State of North Carolina shall submit a statement reflecting that adequate observations during and upon completion of construction, by the engineer or by a representative of the engineer's office who is under the engineer's supervision, indicates that construction was completed in accordance with approved plans and specifications. 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 to me as incomplete. Any application package determined incomplete by the Director of Engineering shall be returned to the applicant. Revised engineering plans and specifications shall constitute a re-submittal, shall be accompanied by a new fee, and shall require additional time for review. Note: In accordance with NC General Statutes 143-215.6A and 143-215.6B, any person who knowingly makes any false statement, representation, or certification in any application 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 of legal owner, board, council, and/or authorized official with title; as defined in property records and/or a registered agent(s) as listed in the NC Secretary of State Corporation filings.)	(Applicant's Street or Box Number)
(Applicant's Typed Name & Title of signing entity)  (Applicant's Signature Date)	(Applicant's City, State, Zip Code)
(Applicant's Phone Number)	(Applicant's Email Address)

# City of Concord Water System-Supplied Information Form (Water System ID No: 01-13-010)

**Annual Report 2024** 

Engineer's Initials:	Date of Initials:						
The form must be initial and dated by the Consultant Engineer							

City Use Only: Data Reference - City of Concord Local Water Supply Report 2023					
Signature: Deal Deal Deal Date: 2024.04.30 11:52:09 -04'00'  Jacklyn Deal, City of Concord Director of Engineering  Date provided:					
Number of current connections in water system (Reference Local Water Supply Report – Item 2 - Meter Connections total)	45,650 connections *				
Approved number of connections in water system (Local Water Supply Report - Not applicable)	N/A – local government system				
Current average and maximum day demand of existing system Average day demand is the one-day average demand for the latest calendar year.  (Reference Local Water Supply Report – Item 3 - Water Supply Sources -Average Daily Use (MGD of Raw Water Withdrawls) (Reference Local Water Supply Report – Item 3 - Water Supply Sources –Max Day Daily Use (MGD of Raw Water Withdrawls) (Item 3 Note - The purchase water contract with Charlotte Water is listed as a regular use connection to account for the ability that Concord has to purchase up to 5MGD as needed. A total of 1637.956 MG of finished water was purchased from Albemarle. A total of 0.174 MG of finished water was purchased from the City of Kannapolis in CY 2023. A total of 5.159 MG of finished water was purchased from Charlotte Water in CY 2023.)	16.2358 average Million gpd *  17.8767 maximum Million gpd *				
Current maximum daily treated water supply of existing system  Maximum daily treated water supply is the maximum quantity of treated water that can be produced and/or purchased by the system. (Reference Note – The values are based on the Safe Yield volume and purchase contracts for finished water.)	30.15 maximum Million gpd *				
Total elevated storage capacity of existing system (Reference actual Elevated Storage Tank TOTAL Permitted Capacity)	12.75 Million gallons				
Total ground storage capacity of existing system (Reference actual Ground Storage Tank TOTAL Permitted Capacity)	8_Million gallons				
Total hydropneumatic storage capacity of existing system N/A	N/A Million gallons				
Contractual storage with other system(s) Attach a copy of the agreement with the providing system N/A	0Million gallons				
Systems > 300 connections or systems < 300 connections without hydropneumatic storage:					
• Total storage volume is at least half the average annual daily demand (Rule .0805(c))	⊠ Yes □ No				
• Has elevated storage or meets high yield aquifer criteria (Rule.0405(d))	⊠ Yes □ No □ N/A				
<ul> <li>For municipalities, at least 75,000 gallons elevated storage and at least half the average day demand combined elevated and ground finished water storage (Rule .0805(b))</li> </ul>	⊠ Yes □ No □ N/A				
Systems with hydropneumatic storage tanks up to 300 connections:	Not applicable.				
• Volume of hydropneumatic storage tank is sufficient to meet peak demands based on Rule .0802 and calculations in Appendix B, Figure 6	☐ Yes ☐ No       N/A				
• For residential community systems, volume of hydropneumatic storage tank is at least 40 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	Yes No N/A				
• For mobile home park systems, volume of hydropneumatic storage tank is at least 25 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	☐Yes ☐ No   ☑ N/A				
• For campground systems, volume of hydropneumatic storage tank is at least 10 times the number of connections or 500 gallons, whichever is greater (Rule .0803)	Yes No N/A				
	City of Concord 2024 WSSI FORM				

(\*Reference data - 2023 Local Water Supply Planning Report)