

## INTRODUCTION

The Public Works Commission (PWC) was created by an act of the North Carolina Legislature to provide utility services to the citizens and industry within the City of Fayetteville, Town of Hope Mills, and surrounding unincorporated areas. The Public Works Commission is owned by the City of Fayetteville and its citizens. The PWC is operated by a four (4) member Board of Commissioners appointed by the Fayetteville City Council. The day-to-day management of the PWC is by a General Manager with a Chief Operating Officer for each Department (Finance, Administration, Electric, and Water Resources).

The PWC Water Resources Engineering Office is located at the following address:

Water Resources Engineering  
PWC Operations and Maintenance Complex  
955 Old Wilmington Road  
Fayetteville, NC 28301

The City of Fayetteville Public Works Commission provides electric, water and sewer service to a major portion of the City of Fayetteville and the surrounding area. The PWC service area is not limited and is considered to be all of Cumberland County excepting Ft. Bragg. Currently PWC serves approximately 58% of the population of Cumberland County and intends to serve 90% of the population by the year 2030.

PWC currently provides 26.6 mgd of water to 184,136 people through 56,000 meters on 1,200 miles of distribution system. PWC has two water treatment plants, the P.O. Hoffer Treatment Plant and the Glenville Lake Treatment Plant. The Hoffer Plant has a treatment capacity of 32 mgd expandable to 96 mgd; the Glenville Lake Plant has a treatment capacity of 18 mgd.

The PWC wastewater collection system is composed of two water reclamation facilities (WRF), the Rockfish Creek WRF and the Cross Creek WRF. The Rockfish Creek WRF is permitted for 21 mgd of wastewater; the Cross Creek WRF is permitted for 25 mgd of wastewater. The collection system contains approximately 1,200 miles of sewer mains conveying wastewater from approximately 55,000 customers.

The purpose of this Manual is to serve as a guide in determining the planning, design standards and methodology, construction materials, details, technical specifications and regulatory requirements for the preparation and submittal of water and wastewater extensions for the Public Works Commission of the City of Fayetteville, NC.

This document and contents are intended to establish the minimum PWC requirements and is not intended to provide an explanation for every design problem nor as a substitute for experience, sound judgment, and engineering knowledge. Likewise, this publication is not intended to replace or supercede adopted codes, ordinances, or statues. Engineers are encouraged to use this Manual on PWC related projects to facilitate the review process of detailed engineering drawings. These guidelines and requirements shall apply to all utility extensions to be owned and/or operated by PWC.

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Water Resources Engineering Manager

## ACKNOWLEDGMENT

This Manual for the Design and Construction of Water and Wastewater System Extensions for Public Works Commission of the City of Fayetteville, NC was created and assembled by the following:

### P.W.C. Commissioners:

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## COPIES OF MANUAL

This Manual is available on the Public Works Commission website (<http://www.faypwc.com>) for downloading and easy reference. Periodically, updates to this Manual will be posted to the website. The Public Works Commission will send an email notification to those that have previously purchased a manual. It is the individual's responsibility to verify that they are using the most up to date information, requirements, and technical standards, as posted to the website.

If you would like to purchase a hard copy of this manual, please contact the Water Resources Engineering Department at:

Public Works Commission  
955 Old Wilmington Road  
Fayetteville, NC 28301  
(910) 223-4730  
(910) 829-0203 (fax)

Hard copies of the manual are available for a fee of \$100. This fee includes a CD of the standard details, a CD of the technical specifications, covers production costs, and the costs of future revisions. Please note that revisions will not be mailed – they will only be available via the internet.

**Contact List**

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W - 910-433-1992

City Manager  
Roger Stancil  
W - 910-433-1990

Planning Division  
Jimmy Teal  
W - 910-433-1996

Police Department  
Dial 911

Fire Department  
Dial 911

**COUNTY OF  
CUMBERLAND**

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William Elmore  
W - 910-321-6736

Sheriff's Department  
Earl Butler, Sheriff  
W - 910-323-1500

Joint Planning Board  
Barry Warren  
W - 910-678-7600

**STATE OF NORTH**

**CAROLINA**

State Emergency Operations  
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1-800-858-0368

NCDENR - Dam Safety -  
State Dam Safety Engineer  
919-733-4574

NCDENR - Fayetteville  
Regional Office - Regional  
Engineer  
910-486-1541

National Weather Service  
919-515-8209

American Red Cross  
910-867-8151

## **DISCLAIMER**

### **OWNERSHIP OF DOCUMENTS**

This document including design standards, design methodology, construction details, technical specifications, and drafting standards have been compiled based on PWC standards and practices, from various Governmental Agencies Guidelines, North Carolina General Statutes and enabling legislation. This document is intended to be used in the planning, designing and constructing water and sewer utilities to be owned and maintained by PWC. The document or the contents are not intended or represented to be suitable for use on projects that will not be owned and/or operated by PWC. Any reuse without written verification or adaptation by PWC will be at the Engineer's sole risk and without liability to PWC.

### **NONDISCLOSURE OF PROPRIETARY INFORMATION**

Engineers providing services for PWC utility extensions shall consider all information provided herein by PWC and this document to be proprietary, unless such information is available from public sources. Consulting Engineers shall not publish or disclose proprietary information for any purpose without PWC's prior written authorization.

### **COMMENTS**

Any and all comments will be greatly appreciated. Please direct comments to:

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