



Athens-Clarke County Public Utilities Department General Design Guidance for Water and Sanitary Sewer Development Projects

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Article I. General Water and Sanitary Sewer Design Guidance

Section 1.01 Construction Document Submission

- a. Athens-Clarke County Public Utilities Department (PUD) promulgated these policies and rules applicable to the installation of utilities. (Municode §7-3-37(b))
- b. PUD requires that all water and sewer extensions to the main system be built equal to those installed by PUD with respect to materials, installation, performance, and durability in compliance with the most recent version of the PUD specifications for water and sanitary sewer construction. Private water and sewer mains must function within the framework of the public system and therefore must be built according to specifications.
- c. Construction documents must be submitted through the current plan review process to the Athens-Clarke County Planning Department for permitting. All fees for plan review are calculated based on the Planning Department's Fee Calculator and are due at plan submission.
- d. All water and sewer plans shall be signed and sealed by a Georgia Registered Professional Engineer.

Section 1.02 Plan Review

- a. All water main and sanitary sewer line (less than 36 inch diameter) design review and approval will be administered by PUD under delegation by Georgia Environmental Protection Department (EPD).
- b. Plans will be reviewed and written comments will be provided indicating required corrections and/or changes to the applicant through the Athens-Clarke County Planning Department. Plans submitted for review will not be returned to the applicant.
- c. The written comments are one of three types, corrective, conditional, or recommendations. Corrective comments will require resubmission to address the comments prior to approval. Conditional comments will require actions by the applicant prior to issuing the construction permit or the certificate of occupancy. Recommendation comments are not binding on the applicant.

Section 1.03 GDOT Permit for Utility Construction in Right of Way

- a. All utility construction on State right-of-way requires a permit from the Georgia Department of Transportation (GDOT) Georgia Utilities Permitting System (GUPS Permit). PUD will process the GUPS permit application.
- b. The applicant/contractor is responsible for supplying all drawings and traffic control plans required by GDOT as part of the GUPS process.

- c. The PUD fee processing the application for the permit is \$160.00. (Municode §5-3-71)

Section 1.04 Variance to PUD Specifications

- a. The Director of Public Utilities is authorized to approve a variance for any significant deviation from the water and sanitary sewer construction specifications.
- b. The approval of a variance for the project must occur before final approval of the construction documents.

Section 1.05 Plan Approval Process

- a. Water and sanitary sewer projects are sorted into one of three categories for approval.
 - 1) The project does not include any In-house work by PUD forces and there is no extension to the public water or sewer mains. These projects may require cost estimates for water meters and/or sewer connection fees.
 - 2) The project includes work on the water or sewer main line by PUD forces, such as installation of a tap on a water main. No contractor work is involved in the utility construction of the public water or sewer system. This will be an **In-house project**.
 - 3) The project includes an extension of the public water and/or sewer main by an approved utility contractor. This project will require a utility extension permit issued by PUD. This is a **Permit project**.
- b. **In-house projects** require submission of 4 sets of drawings for the approval process (1 complete set of site plans and 3 partial sets). The partial sets include the cover page, all site demolition plans, all plan and profile of utilities, all utility details, and the tree management plans. Erosion and sediment control drawings and details are not required in the partial sets.
- c. All construction estimate costs for In-house projects must be paid by the developer prior to PUD scheduling work.
- d. **Permit projects** require submission of 8 sets of drawings for the approval process (1 complete set of site plans and 7 partial sets). The partial sets include the cover page, all site demolition plans, all plan and profile of utilities, all utility details, and the tree management plans. Erosion and sediment control drawings and details are not required in the partial sets.
- e. All construction estimate costs and inspection fees must be paid and the permit signed by the developer, reviewed by the PUD Director, and signed by the Utility Engineer prior to construction. The Utility Contractor must contact PUD inspector before construction on the water or sanitary sewer project can begin.
- f. Utility contractors must be on PUD's Approved Contractors List to work in Athens-Clarke

County. This requires a current Utility Contractor's License and proof of current general liability (1,000,000 each occurrence) and workmen's comp (1,000,000 each accident) insurance.

- g. Electronic submittals for final plans are required at the Planning Department for permitting. PUD can accept electronic documents in pdf or dwg formats. However, electronic documents are not to be substituted for the 4 sets or 8 sets requirements for approved plans.

Section 1.06 Utility Easements and Plats

- a. All components of the public water and sanitary sewer mains including pipelines, valves, hydrants, meters, manholes, etc., must be physically located in the roadway, street, public right of way or in an easement granted to PUD.
- b. Permanent easements for water and sanitary sewer will typically be 20 foot wide centered on the utility line. Easements for parallel water and sewer mains will be 30 feet wide centered with 10 foot separation between the mains. Water and sewer mains that are deep may require additional width in the permanent easement.
- c. Temporary construction easements will typically be an additional 10 feet on both sides of the permanent easement.
- d. Easements with locked gates are allowed as long as PUD is supplied with a key, and fence and gate must be perpendicular to the utility line direction.
- e. The easement plat must be reviewed and approved by PUD then recorded at the Clerk of the Superior Court of Athens-Clarke County. Afterwards, the easement document will be recorded with the Plat Book and Page number included from the Plat. The plat and easement documents must be sent to PUD digitally. All other documentation including Title Opinion, Owner's Affidavit, and Record Drawings as Built (5 sets) must be submitted by hard copy to PUD. A Consent of Lender may be required for easements valued above \$15,000.00. All easement documentation must be submitted and all fees paid prior to a letter of acceptance, issuance of certificate of occupancy, or setting the water meter(s).
- f. Should existing platted and recorded easements for water and sewer lines not accommodate the existing water and sewer lines as needed, the easement may be exchanged with the property owner to accommodate planned construction. PUD will determine if the relocation will not impede the ability to exercise all of the powers and property interests granted in the original easement.
- g. If the relocation is requested by any party other than PUD, the owner of the property will be responsible for the field survey and preparation of the deeds and plats as necessary along with all related costs.
- h. Easement Documents: Entities having ownership must sign the easement as stated below:

- 1) Corporations – Georgia law requires that documents transferring interest in real property must be signed by the president or vice president of the corporation and be attested by the secretary or treasurer of the corporation or have the corporate seal affixed.
- 2) Limited Liability Companies – Georgia law requires that documents must be signed by a member.
- 3) Limited Partnership – Georgia law requires that documents must be signed by the general partner. If the general partner is a corporation, set up the “by” signature block in accordance with laws for corporations.
- 4) General Partnership – Georgia law requires that documents must be signed by every partner.
- 5) Trusts – Georgia law requires that documents must be signed by every trustee for the trust.
- 6) Individuals – Georgia law requires that documents must be signed by every individual holding title exactly as each took title.
- 7) Every signature on a document must be witnessed by an unofficial witness and notarized. Notary’s seal must be affixed.

- i. PUD reserves the rights to increase the easement requirements based on site specific issues such as extra depth or steep surface topography.
- j. No permanent structures or trees are allowed in permanent sewer easements, or within five feet of existing or proposed sewer laterals.

Section 1.07 Permits

- a. Developer/Owner is required to submit current Articles of Incorporation to PUD for creation of the permit.
- b. The permit will include all costs for work performed by PUD forces on the project.
- c. The permit will include all inspection costs for proposed extension to the water and/or sanitary sewer main systems. The water main extension inspection fee is \$1.20 per foot. The sanitary sewer main extension inspection fee is \$2.80 per foot.

Section 1.08 Record Drawings (as built)

- a. Record Drawings must be sharp, clear, clean, legible, and submitted both on hard copy and digitally as pdf or dwg files. See section h.1 below.
- b. Record Drawings must be stamped by a Professional Engineer currently registered in the State of Georgia.
- c. Record Drawings shall include a site plan with utility lines in plan view as well as a profile view of sanitary sewer lines and any supplemental or shop drawings as may be required by PUD. The Record Drawings should be based on the approved drawings

plus any approved field changes or change to approved noted.

- a. Unless noted otherwise, Record Drawings shall provide dimensions, distances, and coordinates to the nearest 0.1 foot.
- b. Unless noted otherwise, Record Drawings shall provide elevations to the nearest 0.01 foot for all pertinent items constructed by the Contractor.
- c. The Contractor shall employ a currently registered surveyor to prepare the Record Drawings from a post construction, field run survey. The Record Drawings shall provide elevations to the nearest 0.01 foot for all manhole inverts, manhole frames and other pertinent items constructed by the Contractor. The Record Drawings shall provide dimensions, distances, and coordinates to the nearest 0.01 foot and horizontal angles to the nearest 10 seconds.
- d. Other required information:
 - 1) Any changes in dimension and detail.
 - 2) Details not on original drawings such as added dog house manholes, added casing details, or other detail added in the field.
 - 3) Horizontal and vertical locations of all exposed and underground utilities and appurtenances, both new facilities constructed and those utilities encountered, referenced to permanent surface improvements.
 - 4) Location of and dimensions of roadways and parking areas, providing dimensions to back of curb when present.
 - 5) The locations shall be referenced to at least two easily identifiable, permanent landmarks (e.g., fire hydrants, valve markers, etc.) or benchmarks.
 - 6) For each fire hydrant, include the manufacturer, year, barrel diameter, and nozzle diameters.
 - 7) The Record Drawings shall include the horizontal angle and distance between manhole covers.
- a. Record Drawing Deliverables
 - 1) Provide an electronic copy of record drawings to ACC in AutoCAD 2000 (dwg.) or later format.
 - 2) Electronic file shall be in Georgia State Plane Coordinates, NAD 1983 West FIPS 1002, feet.
 - 3) Format shall include the following features:
 - Water Main- Polyline/continuous
 - Water system appurtenances- single point
 - Sewer Main- Polyline/continuous
 - Sewer manholes and appurtenances- Single Point
- b. Drawing layers shall be:
 - 1) FH- Fire hydrant

- 2) WV- Water valve
- 3) FDC- Fire Department Connection
- 4) WL- Water Line
- 5) Vault
- 6) Meter
- 7) Fittings (tees, crosses, taps)
- 8) SSMH- Sanitary Sewer Manhole
- 9) SSL- Sanitary Sewer Line

Section 1.09 EPD Required Notes for Approved Plans

- a. Include a statement weather the sewers cross a jurisdictional wetland. If so, indicate that the Corp of Engineers requirements concerning wetlands are met.
- b. Include a statement that all unsuitable excavated material must be properly disposed of in a manner acceptable to the Athens-Clarke County Government and in a manner that will not adversely impact the environment.
- c. Include a statement that bypassing of raw wastewater onto the ground or into a receiving stream is prohibited by law.
- d. Include a statement that all construction will comply with the Department of Labor Occupational Safety and Health Administration, 29 CFR Part 1926, latest edition.
- e. Include a statement that none of the sanitary sewers, water mains, services, or any other utilities associated with this project are constructed or proposed to be constructed on a solid waste landfill.

Section 1.10 PUD Required Notes for Approved Plans

- 1. All Sanitary Sewer Utility construction shall be performed in accordance with ACC PUD Sanitary Sewer Specifications, latest edition. All Water Utility construction shall be performed in accordance with ACC PUD Standard Specifications for Water Main Construction, latest edition, and AWWA standards. This includes public mains and private service lines.
- 2. All Water Main and Sanitary Sewer Line construction contractors must be on PUD's approved contractors list with current utility license and current insurance for workman's comp and liability.
- 3. Erosion and sediment control measures shall be installed prior to any other construction on the site and shall be maintained until a permanent ground cover is established.
- 4. The Contractor shall coordinate all utility installations.
- 5. Prior to performing any land disturbing activities or when work is to be performed within 10 feet of high voltage overhead power lines, the contractor is required by law

to notify the Utility Protection Center at 1-800-282-7411 or by calling 811. Seventy-two (72) hours advanced notice is required.

6. Existing underground utility locations as shown should be considered approximate and may not be complete. Underground utilities as shown are based on information provided by the utility owners. It shall be the Contractor's responsibility to locate all underground utilities. Any damage to such utilities shall be repaired at the Contractors cost and per the utility specifications.
7. The Contractor shall field verify location and depth of existing utility lines prior to construction and report any discrepancies to PUD's Inspector and the design engineer/firm.
8. The Contractor shall notify the ACC PUD Inspector twenty-four (24) hours prior to beginning construction.
9. **Administrative Cost Fee:** Water Main taps on the existing water main shall be performed by ACC PUD at the Developer's expense. Inspection of all water main and sanitary sewer lines to be conveyed to ACC PUD will be carried out by ACC PUD Inspectors or PUD's contracted agent. Inspection Fees and Construction Cost Estimates must be paid prior to beginning utility construction.
10. **Connection and Meter Fee:** Charges to establish water and sanitary sewer services apply and are the Developer's responsibility. All meter and connection fees must be paid prior to setting water meters. All water meters must be installed by ACC Meter Management. Developer must complete a separate Water and Sanitary Sewer Application at the Building Inspection Department (120 W Dougherty) for all water meter connections proposed for the public water and/or sanitary sewer system for this project.
11. Water main existing depth is approximately four (4) feet, contractor must verify. The minimum cover on a proposed water main is four (4) feet.
12. Contractor will coordinate the location of water service lines and sanitary sewer service lines from the building. Stub locations will be marked on a stub plat and submitted to PUD prior to acceptance of the project. Stub markers will indicate the stub locations on each parcel.
13. Show required ten (10) foot horizontal separation for Water Mains and Sanitary Sewer Lines running parallel with other utilities and one and a half (1.5) foot vertical separation required when crossing other utilities. Perpendicular crossing is desired when possible. Water and Sewer service lines require ten (10) foot separation.
14. PUD Inspectors will oversee all utility line testing and disinfection in accordance with PUD Specifications. Disinfection of water mains and disposal of heavy chlorinated water shall be in accordance with AWWA Standards.
15. All proposed or relocated fire hydrants will be located two (2) feet behind sidewalks unless otherwise noted. Any existing fire hydrant that does not have a check-valve on the project will be replaced with a check-valve hydrant. Any RD Woods fire hydrant on the project will be updated with a new hydrant.
16. All PVC materials and plastic service lines shall bear the National Sanitation Foundation Seal of approval for potable water service.

17. Any non-potable water lines and appurtenant fixtures shall be colored purple for easy identification.
18. Open road cuts greater than 150' require full lane milling and inlay for final repair. All pavement repair will be resurfaced per ACC requirements and details at Developer's expense. Concrete curb and sidewalk shall be repaired to equal or better by contractor at Developer's expense.
19. US Army Corp of Engineers requirements concerning construction in wetlands must be met.
20. All unsuitable excavated material must be properly disposed of in a manner acceptable to ACC PUD and in a manner that will not adversely impact the environment.
21. Bypassing of raw wastewater onto the ground or into a receiving stream is prohibited by law.
22. All construction will comply with the Department of Labor Occupational Safety and Health Administration, 20 CFR Part 1926, latest edition.
23. None of the sewers, services, or any other utilities associated with this project will be constructed or proposed to be constructed on a solid waste landfill.
24. No trees or structures within permanent utility easement are allowed. The maximum slope shall be 3:1 or flatter in an easement unless approved by PUD.
25. Utility easement for water mains or sanitary sewer lines is twenty (20) feet wide, typical, and thirty (30) feet wide, typical, when combined water and sanitary sewer. Provide a thirty (30) foot width easement when depth of pipe is greater than fifteen (15) feet. When combined, provide ten (10) feet of separation from center to center of water and sanitary sewer lines. If lines are equal to or larger than twelve (12) inch diameter, horizontal separation requirement is ten (10) feet measured from the outside edge of the each pipe. All easements must be properly recorded prior to acceptance of water or sanitary sewer line additions to the PUD utility systems.
26. All sanitary sewer mains shall be SDR 26 PVC or cement lined Ductile Iron Pipe (DIP) unless otherwise specified on plans. Maximum fill on SDR 26 PVC is fifteen (15) feet deep. All sewer service laterals shall be SDR 26 PVC. GA EPD limits the sewer service lateral length to two hundred and fifty (250) feet maximum.
27. Provide a minimum two-tenths (0.2) foot drop across the invert in to invert out in new manhole construction. Provide outside drops for drops greater than two (2) feet. Outside drops require DIP pipe.
28. The Contractor and Developer shall not interfere with the use and operation of ACC's existing water distribution and sanitary sewer collection lines.
29. Upon completion of the utility project, the developer will submit: 1) A permanent easement conveying the utility lines to PUD together with all appurtenant fixtures; 2) A title opinion from a State of Georgia attorney at law stating that the Developer has good, valid, and marketable fee simple title in and to the property subject only to the utility easements and free from any liens or encumbrances, including deeds to secure debt and currently due and payable ad valorem taxes; 3) An affidavit executed by the Developer stating that all utility improvements to the Property have been completed and that all contractors, subcontractors, laborers, and materialmen have been paid,

and have released of record all liens or notice of intent to perfect a lien for labor and materials; and 4) As-built drawings of the utilities, easements, and stub locations.

30. PUD shall not be liable for any costs for design, engineering, survey, or construction of the utility project. Developer accepts sole responsibility for the design and construction of the utility lines and liability for providing individual sewer service to each and every individual point of service, and hereby relieves PUD and agrees to hold PUD harmless for any liability to provide such service to each individual point of service.
31. To the fullest extent allowed by law, Developer shall indemnify and hold harmless the Unified Government of Athens-Clarke County from any and all claims whatsoever arising out of the design or construction of the utility lines occurring prior to the PUD's acceptance of the lines.
32. Developer warrants the utility construction against any and all defects in design, engineering, materials, and workmanship for a period of twelve (12) months from the date of final acceptance of the lines by PUD. The warranty provided herein includes, but is not limited to, the duty of Developer during the warranty period to make any and all adjustments to the lines necessary to conform to accepted engineering standards and to ACC, Georgia, or Federal regulations, building codes, ordinances, or laws.
33. The Contractor shall provide PUD with a rough grade approval letter from a certified Professional Engineer or Land Surveyor prior to beginning any waterline construction.

Section 1.11 Water Metering Requirements and Connection Fee

- a. Water connection fees are based on the water meter size per structure on a parcel.
- b. Water connection fees may not be refunded.
- c. All water connection fee waivers must be approved by Mayor and Commission on the basis of qualified affordable housing developments of substantial benefit to Athens-Clarke County.
- d. PUD charges a meter fee (cost of the meter), a stub fee (cost of connecting to the main water line), and a connection fee.
- e. Irrigation meters may be $\frac{3}{4}$ inch or 1 inch. The fee is the same as a domestic water meter. However, sewer charges are not included. The water rate charge for irrigation meters is set at Tier 4 pricing.
- f. Each individual parcel of property to be served by the PUD water distribution system must have an existing water main located within the frontage of said property. Said parcel must be served through its own individual connection and individual water meter from PUD. Master meters will not be allowed to serve projects or developments which have been subdivided into more than one parcel or property.
- g. In addition, each structure (building) as a minimum, must be served by its own individual connection to the public owned water system and through its own individual water meter. Certain types of buildings may be exempt from this requirement, if approved by the Public Utilities Director (i.e., material storage building, etc.). This type exemption is to be based on a review and finding that the building type and the land

development pattern are such that the subdivision of the property, at some future date, will not occur or would not result in the subject structure being located on its own individual parcel or property.

- h. Each unit in apartment complexes, condominium developments (residential and retail), and commercial/industrial developments must be individually metered with private or public meters per Georgia State Law. If private meters are used, each structure (building) as a minimum, must be served by its own individual connection to the public owned water system and through its own individual public water meter. If each individual unit is metered with a public meter, a master meter is not required.
- i. All existing structures provided water service by an individual well or other private water service, and are now desirous of obtaining water service from PUD, must as a minimum, obtain a plumbing permit from the Athens-Clarke County Building Permit and Inspection Office, and install a reduced pressure backflow preventer. All new structures desirous of obtaining water service from PUD, must obtain a plumbing permit from the Athens-Clarke County Building Permit and Inspection Office and install a back-flow preventer.
- j. All water services for duplex and/or triplex developments will be sized to provide a minimum of seventeen (17) gallons per minute per unit. A minimum requirement of a one- inch water meter and stub for a duplex structure, and a 1-1/2 inch water meter and stub for a triplex structure is hereby established.
- k. Connection fees for duplex and triplex developments will be the sum of individual connection fees as if each unit within the duplex or triplex has been individually metered. The connection fee for a duplex dwelling will be the connection fee for a single-family dwelling multiplied by two. The connection fee for a triplex will be the connection fee for a single-family dwelling multiplied by three.
- l. Fire protection cannot be provided through a master domestic water meter. All fire hydrant service must be provided through direct connections with the Public Water System. Privately owned fire hydrants must be painted yellow in color to designate same from Public water system hydrants.

Section 1.12 Back Flow Preventer Program

- a. The Cross Connection Control (Isolation) Program will be enforced per the currently adopted plumbing code. The Containment Program will be enforced per the ordinance adopted on May 6, 1986. (Municode §5-3-60 and 5-3-61). The Containment Program was devised to protect the Athens-Clarke County public water system.
- b. All new water services to the system must meet the program requirements at the time of occupancy or use begins.
- c. Any structures or services that are added to, altered, or remodeled greater than 50% must meet the requirements of the program before work is completed on the project.

- d. Single and double family homes are not included at this time, unless they have an irrigation system, or other potentially hazardous process on the property or an alternative water supply.
- e. Existing services not included in paragraphs b, c, or d will be surveyed and prioritized according to degree of hazard and required to meet the Containment Program on that basis. It is noted that the Isolation Program will not be required on these services unless a safety hazard exists.
- f. Any back flow device must be installed adjacent to and downstream of the metering point (the point of receiving service). All back flow preventers and lines beyond the water meter are the responsibility of the property owner. Exceptions may be granted by the Cross Connection Coordinator to locate the back flow device within a structure.
- g. Any user with water contaminating materials on their property, or with contaminating materials used in any process by the user, must use the Reduced Pressure Zone (RPZ) backflow preventer for containment protection requirements.
- h. All other domestic users (except in paragraph g) must use the Double Check Valve backflow preventer for containment requirements.
- i. Fire Protection systems shall use detector devices. Class 1, 2, and 3 shall use Double Detector Check Valve backflow preventers and any systems that have contaminants used shall use RPZ Detector backflow preventers for containment requirements.
- j. Irrigation services of one (1) inch and less may use a Double Check Valve backflow preventer, if no chemigation is used at any time in the irrigation system.
- k. Irrigation systems of any size that use any type of chemigation (permanent or temporary) shall use a RPZ backflow preventer for containment.
- l. Domestic and irrigation systems that use alternate sources of water shall use a RPZ backflow preventer for containment requirements.
- m. Every service on the public water system shall be reviewed for program requirements in order of potential hazard as prioritized.
- n. Any person who performs tests, repairs, or maintains a backflow device shall be certified under guidelines acceptable to the Cross Connection Coordinator.
- o. Any person who installs a backflow preventer must be a Georgia licensed plumber, hold a certificate of competency for fire suppression systems from the state of Georgia, or be a certified backflow prevention device specialist.
- p. Any gauge or instrument used to test a backflow device shall be calibrated annually and a record of calibration shall be submitted to the Cross Connection Control Coordinator.

Section 1.13 Sanitary Sewer Connection Fees

- a. Sewer connection fees are based on the water meter size per structure on a parcel.

- b. Sewer connection fees may not be refunded.
- c. All sewer connection fee waivers must be approved by Mayor and Commission on the basis of qualified affordable housing developments of substantial benefit to Athens-Clarke County.
- d. Each parcel of property to be served by the PUD system must be served by its own individual connection sewer line and/or stub to the public system.
- e. Connection to the PUD system through a private sewer line and/or stub, which provides service to more than one parcel, is prohibited.
- f. Each individual parcel of property to be served by the PUD sanitary sewer system must have an existing sewer main located within the frontage of said property. Said parcel must be served through its own individual connection stub.
- g. Joint use stubs that serve more than one parcel will not be allowed. Multiple structures on a single parcel may have a single stub connected to the sewer main.
- h. The sewer connection fee for each individually master metered separate building within a condominium or apartment complexes with four units and greater will be the sum of the individual connection fees (as if the units had been individually metered) times a factor of 0.60. For example, the connection fee for an apartment complex with a master meter with 10 units would be the connection fee for a single-family dwelling x 10 units x 0.60 equivalence factor.

Section 1.14 Connection Required to Sanitary Sewer Line

- a. All houses, buildings, or properties used for human and/or animal occupancy, employment, recreation, or other purposes, situated within Athens-Clarke County and abutting on any street, alley, or right of way in which there is now located, or may in the future be located, a public sanitary sewer is required at the owner's expense to install suitable toilet facilities.
- b. Connection to the public sanitary sewer facility is required if the public sewer is within 200 feet of the property line.

Section 1.15 Sanitary Sewer Lines

- a. All sanitary sewer lines are 8 inches or greater in diameter and have manholes at each change in direction or grade.
- b. These lines must be constructed to PUD standards and must be inspected by PUD Inspectors. All other sewer lines are referred to as service connection lines and/or stubs and will be inspected by the Building Inspection Department.
- c. The following identifies the minimum and maximum grades acceptable for all sanitary sewer lines:

| Pipe Diameter (Inches) | Minimum Grade (%) | Maximum Grade (%) |
|------------------------|-------------------|-------------------|
| 8 | 0.5 | 15.0 |
| 10 | 0.4 | 10.0 |
| 12 | 0.3 | 10.0 |
| 15/16 | 0.25 | 8.0 |
| 18 | 0.22 | 6.0 |
| 20 | 0.20 | 5.0 |
| 24 | 0.15 | 4.0 |

- a. Sewer lines that traverse and/or serve more than one parcel must be owned by Athens-Clarke County. Sewer lines within the limits of a single parcel intended to serve multiple structures and/or multiple individually owned units on a single land parcel (i.e. residential or office condominiums, multiple structure apartment complexes, etc.) may be privately owned. However, the sewer must be constructed to PUD standards (easement conveyance for these private lines is not required) and inspected by PUD, if such lines are to be tied to the public system. Each structure (building) must be connected to a public sewer main or PUD approved private sewer line by its own individual stub.

Section 1.16 Sewer Sampling of Industrial Wastes (§ 5-1-7)

- a. Athens-Clarke County has the right to enter the facilities of any industrial user to ascertain whether the permit or order issued is being met, and whether the industrial user is complying with all requirements. Industrial users shall allow the public utilities director or his representatives ready access to all parts of the premises for the purposes of inspection, sampling, records examination and copying, and the performance of any additional duties.
- b. Where an industrial user has security measures in force which require proper identification and clearance before entry into its premises, the industrial user shall make necessary arrangements with its security guards so that, upon presentation of suitable identification, personnel from Athens-Clarke County, state, and EPA will be permitted to enter without delay, for the purposes of performing their specific responsibilities.
- c. Athens-Clarke County, state, and EPA shall have the right to set up on the industrial user's property, or require installation of, such devices as are necessary to conduct sampling and/or metering of the user's operations.

- d. Athens-Clarke County may require the industrial user to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the industrial user at its own expense. All devices used to measure wastewater flow and quality shall be calibrated per the manufacturer's specifications, at least semiannually to ensure accuracy.
- e. Any temporary or permanent obstruction to safe and easy access to the industrial facility to be inspected and/or sampled shall be promptly removed by the industrial user at the request of the public utilities director and shall not be replaced. The costs of clearing such access shall be borne by the industrial user.
- f. Unreasonable delays in allowing Athens-Clarke County personnel access to the industrial user's premises shall be a violation of municipal ordinance.
- g. Where Athens-Clarke County holds an easement, duly authorized employees of Athens-Clarke County bearing proper credentials and identification shall be permitted to enter all private properties through which Athens-Clarke County holds a duly negotiated easement for the purposes of, but not limited to, inspection, observation, measurement, sampling, repair and maintenance of any portion of the sewage works lying within the easement. All entry and subsequent work, if any, on the easement shall be done in full accordance with the terms of the duly negotiated easement pertaining to the private property involved.
- h. While performing the necessary work on private properties referred to in this section, duly authorized employees of Athens-Clarke County shall observe all safety rules applicable to the premises established by the Owner. And Athens-Clarke County shall indemnify the Owner against loss or damage to its property by Athens-Clarke County employees and against liability claims and demands for personal injury or property damage asserted against the owner and growing out of the gauging and sampling operation, except as such may be caused by negligence or failure of the owner to maintain safe conditions.

Section 1.17 Participation by Athens-Clarke County

- a. Development projects situated other than at the highest part of the drainage basin may be required to install a larger sized sewer main to serve the entire basin. The extra cost associated with increasing the gravity main size beyond that required to serve the project may be paid by PUD under a participation agreement. The conditions relating to method of payment will be negotiated by PUD on a case-by-case basis during the development review process.

Section 1.18 Athens-Clarke County Supplementary Powers

- a. ACC may provide sanitary sewer service collection and treatment and development, storage, treatment, purification, and distribution of water for portions of neighboring

counties or municipalities, but only under contract with said municipality or county affected. (Municode §1-18-1)

- b. Project site plans for developments in other municipalities or counties that are to be located in an area under contract to be served by PUD water or sewer systems, must be approved by PUD for water or sanitary sewer service.
- c. All water mains and sanitary sewer mains connected to the PUD public system must meet all of the requirements and specifications of Athens-Clarke County including materials, design, installation, disinfection, and testing.

Section 1.19 Force Main Sewer Connections (§ 5-1-2(a)(5))

- a. It shall be unlawful for any person, without the consent of the Mayor and Commission, to connect to the PUD public sanitary sewer system by means of any force main from a pumping facility or apparatus. One-family residences and duplexes containing two-family units are not required to seek Mayor and Commission approval.
- b. Force main connections may be considered by the Mayor and Commission by written request submitted to PUD.
- c. Requests for connection of a force main shall be accompanied by detailed plans and specifications of the proposal together with any other pertinent information required by PUD.
- d. The force main pumping system and apparatus will be owned by the parcel owner, and all maintenance is the responsibility of the parcel owner. PUD will not take ownership of the system.
- e. The effluent from all pumping systems will enter the public system from a manhole on private property that then enters the public sanitary sewer system by gravity. No effluent will be allowed to enter the public sanitary sewer system under pressure or force from the pumps.

Section 1.20 Contractor Warranty Obligation

- a. The general contractor performing the initial utility line extensions is responsible for a one-year warranty period commencing with the date of written acceptance of same by PUD. All repairs performed under the warranty provision shall be the responsibility of the contractor and made entirely at the contractor's expense.
- b. Emergency warranty repairs which require the immediate attention of the general contractor, as determined by the Public Utilities Director, shall be performed within the same day of notification with actual repair commencing within two (2) hours from time of actual notification and completed within a maximum of 24 hours.
- c. Repairs that are non-emergency in nature, as determined by the Public Utilities Director, must be repaired by the general contractor within five working days to PUD's

satisfaction.

- d. Failure by the general contractor to respond in a manner acceptable to the Public Utilities Director and within the time frames identified will result in the general contractor being placed on probationary status for a six-month period. At the end of said six-month probationary period, the general contractor can request reinstatement to permanent status.
- e. Any repetition of a failure to respond to an emergency repair request within any given six-month time frame will result in the general contractor being removed from PUD's list of qualified contractors for a one year period. At the end of said one year period, the general contractor can submit a written request for reinstatement on a probationary basis for a six-month time frame. At the end of said six-month probationary period, the contractor can request reinstatement to a permanent status.
- f. Should the general contractor be unable to perform the necessary repairs within the guidelines of this policy statement, the following action will be taken:
 - 1) The Public Utilities Director will direct PUD forces to make the necessary repairs.
 - 2) A cost determination will be made as to the actual expense incurred by PUD to make said repairs. The contractor will be responsible for reimbursing PUD 200 percent of said cost. Failure by the contractor to reimburse PUD in the amount established within 30 working days will result in the contractor's immediate removal from the city's list of approved contractors for one year beginning no later than the date of actual remittance for cost incurred. Upon expiration of said one-year period, the contractor can request reinstatement on a probationary basis for six months.
 - 3) All repairs must be performed in compliance with the PUD standards and procedures.
 - 4) The appropriate PUD representative must be notified prior to the commencement of any warranty work repairs.
 - 5) The general contractor performing the warranty work repairs is responsible for obtaining the appropriate permits and any associated fees. GDOT permits will be handled as shown above.

Section 1.21 One Lot Removed from Water and Sewer

- a. Each individual parcel of property to be served by the Public Water and/or Sanitary Sewer System must have an existing water main and/or sanitary sewer line located adjacent to said property. In addition, each individual structure within said parcel, must be served through its own individual water and/or sewer connection and be individually metered from the Public Water System.
- b. Any exceptions to this policy must be approved by the Public Utilities Director. All requests for exceptions to the requirements as stated in this policy must be

accompanied by the following information

- 1) Documentation to substantiate the subject property was subdivided prior to February 1992.
- 2) Executed easement conveyances, in a form acceptable to the Chief Plumbing Inspector of the Athens-Clarke County Building Permits and Inspection Department. No easement will be allowed to cross a public street relative to any proposed private service(s).
- 3) Agreement by the property owner to install a backflow device, as approved by the Chief Plumbing Inspector for the Unified Government of Athens-Clarke County, Georgia, adjacent to the requested water meter.
- 4) Letter from the property owner requesting exception consideration, transmitting the above identified information to the Public Utilities Director, acknowledging all provisions as outlined in this policy statement.
- 5) Only one water stub, meter and/or sewer stub per parcel will be considered under the provisions of this exception. In addition, there cannot be other individual parcels of property located geographically between the parcels for which the exception is requested, unless the intermediate parcel has access to the public systems. Parcels requesting additional services and/or parcels outside the definition of this policy will warrant and require the extension of a public main.
- 6) Applicants that are denied a variance by the Director may request being added to the next available Mayor and Commission agenda for consideration of their variance request.
 - a. If the parcel in question is one of a series of parcels that are one lot removed, an exception will not be granted. An extension of the public water main will be required.
 - b. Additional requirements must be met when one owner owns both lots.

END OF ARTICLE