



770.621.7200 (o) | Watershed Management
770.621.7271 (f) | 1580 Roadhaven Drive
DeKalbCountyga.gov | Stone Mountain, GA 30083

Watershed Utility Review Checklist

AP # _____

Project Name _____

Project Address _____

Reviewed # _____ Date _____

- Refer to the Design Criteria section in the DCDWM Design Standards for all water and sewer infrastructure design at <https://www.dekalbcountyga.gov/watershed-management/office-engineering-construction-management-services>
- **SEWER CAPACITY AVAILABILITY LETTER REQUIRED:** Fill out Sewer Capacity Evaluation Request (SCR) application (link below), show calculations, and submit via email sewercapacity@dekalbcountyga.gov <https://www.dekalbcountyga.gov/sites/default/files/users/user3566/2020%20SCR%20Eval%20Electronic%20Form.pdf>
- Site conditions may dictate more stringent requirements if deemed necessary by the plan reviewer, construction inspector, or DWM engineering group.
- Provide description of planned water and sewer infrastructure on all utility plans.
- Include full project scope on cover sheet.
- Provide all DWM water and sewer details associated with the project.
- Identify all GDOT roads associated with the project. Water meters are not allowed in GDOT ROW.
- Projects entering a State of Georgia controlled ROW will require a GDOT approval and permit.
- Water and sewer infrastructure should be as close to parallel along GDOT ROW and as close to perpendicular as possible when entering GDOT's ROW.
- Show and label any existing or proposed ROW and designate ownership.
- Include a Table of Quantities which include diameter and length for all water, sewer and force main pipes planned for installation.
- Existing water mains along the frontage of proposed subdivisions must be upgraded to current standards.
- Recording of easements at the DeKalb County Courthouse is required prior to Final Plat or As-built approval. A copy of the recorded easement must be provided to the plan review team.

Water

- Water systems must be designed to maintain a minimum of 20 psi at each connection under all conditions of flow, including while flowing fire protection demand. Normal working pressure shall not be less than 35 psi.
- Water systems must be designed with consideration for water quality. Water lines should be looped wherever feasible, and any dead-end lines shall have a blow-off valve or hydrant at termination.
- Isolation valves are required as needed to allow for maintenance and repair.
- Show size, material, and location of existing and proposed water lines. Water mains should be a minimum of 8" diameter in residential areas and 12" diameter in commercial/ industrial areas.
- Tapping an existing water line of 16" diameter or larger will be evaluated on a case-by-case basis by DWM.
- Show and label all proposed and existing easements. Proposed water easements shall be a minimum of 15 feet.
- Show diameter and length of bore casing. Show bore pit and receiving pit locations on drawings. See table Table 6.2 of the DCDWM Design Standards for casing size requirements.
- Show and label all water appurtenances.
- Label pipe size and type for each section of line.
- Potable water mains shall maintain a minimum horizontal clearance of 10 feet from all other underground utilities.
- Potable water mains shall maintain a minimum vertical clearance of 18" from any other utilities.
- Water meters shall be placed in greenspace. Water meters outside of ROW require a water meter easement.
- Residential fire sprinkler lines 4" or less require a water meter.

Sewer

- Show and label size, material, location, and **flow direction** of all existing and proposed sewer mains.
- Show, label, and number all proposed manholes including rim, invert elevations, and station numbers.
- All MHs located in roadways must be traffic-rated. Refer to standards for MH rings and covers.
- Show stub locations for each lot. Clean out must be located within ROW, property boundary, or easement boundary.
- Sewer stubs located beneath roadway ROW shall be minimum 6" DIP.

- Show and label all proposed and existing easements. Sewer easements shall be a minimum of 20 feet.
- Private sewer infrastructure is not allowed within County ROW or easements.
- Show angle deflection at manholes.
- Gravity sewer line material shall be DIP (Class 350) within roadway ROW.
- Add material list, including length, type, size and number of manholes for proposed sewer lines 8" or larger.
- Manhole spacing:
 - Maximum distance between MHs for mains under 24": 400 feet
 - Maximum distance between MHs for mains 24" to 36": 500 feet
 - Maximum distance between MHs for mains over 36": 800 feet
- Manholes shall be a minimum of 4 feet from the curb line when located within the public right-of-way.
- Sanitary sewer mains shall be located as near to center of the street as practical.
- Show the size and location of all jack and bore pits.
- Installation at extreme depth should be avoided. Depths of greater than 20 feet will be evaluated on a case-by-case basis by DWM.

Sewer Profiles

- Show all lines and manholes per site plan beginning at existing infrastructure/ MH. Include MH numbers for existing DWM MHs.
- Show all utility crossings. Include **water line crossings** in sanitary sewer profiles.
- Show pipe length, slope, pipe size, and pipe type for each section of line.
- Show manhole numbers, stations numbers, rim elevations, inverts in and out elevations.
- Show proposed drops at manholes. If greater than a 2 foot drop, an outside drop must be utilized. Inside drops require a 60" diameter manhole.
- Show 100 year flood elevation. Manholes within the flood plain must have bolted or lockable covers. Rim is to be placed no more than 2' above ground elevation.
- Show existing and proposed grade on profiles.
- Show horizontal and vertical scales.
- PVC pipes shall have a minimum depth of cover of four (4) feet and a maximum depth of cover of fifteen (15) feet in un-paved areas.

- DIP is the only pipe material allowed under the road right-of-way at any depth.
- If cover of pipe is less than 4 feet, then a higher class of pipe (Class 450 not Class 350) in conjunction with concrete casing may be required to satisfy loading conditions.
- Maintain a minimum 0.20 foot elevation drop across manhole.

Backflow Requirements

- Show the location of all proposed water meters and label meter size along with the appropriate backflow prevention device per DWM Design Specifications. Note that tap, meter, and backflow must be the same size.
- Backflow preventers shall be placed on private property.
- Backflow prevention device is required to be installed on all non-domestic water service connections lines, including but not limited to: commercial, fire line, and irrigation services.
- Irrigation lines requires a RPP/RPZ backflow preventer.
- Water connections to facilities with high hazard potential require the installation of Reduced Pressure Zone Principle (RPZ) assemblies. (See BF checklist)

Detailed Backflow Checklist:

<https://www.dekalbcountyga.gov/sites/default/files/users/user3566/Backflow%20Prevention%20Checklist%202021.pdf>

Notes

- All design and construction for water, sewer, force mains, lift stations, and backflow prevention shall comply with DeKalb County Department of Watershed Management Design Standards Latest Edition.
- Buildings, building pads, and any permanent structure must maintain 10 feet of horizontal clearance and cannot be placed within easements.
- Manholes located outside of the right-of-way shall be centered within a sanitary sewer easement.
- Vaults shall have only one (1) line entering and leaving the structure.
- Developer shall provide sanitary sewer as-built drawings. All easements dedicated to DeKalb County shall be recorded in the DeKalb County Superior courthouse with final plat or as-built.
- F.O.G. Compliance (Grease Trap) review and approval required.

FOG Permitting Packet:

https://www.dekalbcountyga.gov/sites/default/files/users/user3566/FOG%20Permitting%20Information_01.pdf

- Projects involving construction of (individually-owned) townhomes and/or condominiums are required to have individual water meters and sewer clean outs for each unit.

- Field changes during construction must be submitted for review and approval by the DeKalb County Department of Watershed Management **BEFORE** changes are implemented.
- For projects located within the Cities, the developer shall provide a maintenance bond to DeKalb County Watershed Management prior to approval of As-Built Plans.
- Contractor must jet clean and CCTV sanitary sewer lines after all tie-in connections are made to the existing sewer infrastructure. Tracer wire should be installed for all PVC pipes.
- Contractor to notify the DWM Construction Inspector at least 72 hours prior to commencing construction activities.

Inspector	Contact No	Email
Daniel Tucker	404-732-6411	datucker@dekalbcountyga.gov
Edwin Simpson	404-379-6947	edsimpson@dekalbcountyga.gov

- Water and sewer access fees need to be paid under the following circumstances:
 - o New Construction, Re-Development, Additions, Change of Use, Change of Occupancy etc.
 - o These fees are to be paid through the epermitting portal or at 330 West Ponce De Leon Ave, 2nd Floor.
- For Industrial sites, a separate review is required by DWM IPP at IPP@dekalbcountyga.gov
- Sewer action plans and lift station (public or private) must receive separate approval from DWM Engineering. Send plans to Pavel Vayner, PE at pvayner@dekalbcountyga.gov for considerations

Additional Comments:

PLEASE ADDRESS ALL ITEMS WITH AN “X” AND UPLOAD CORRECTIONS TO PROJECT DOX.

Reviewer:

- _____ Scott Dalrymple, Engineer Sr. sdalrymple@dekalbcountyga.gov
- _____ Yola Lewis, Engineer Sr. ylewis@dekalbcountyga.gov
- _____ Abdul Hasan, Engineer Sr. adhasan@dekalbcountyga.gov
- _____ Bob Stepanek, Engineer Sr. bbstepanek@dekalbcountyga.gov
- _____ Mohammed Shamsuddin, Engineer Sr. mshamsuddin@dekalbcountyga.gov
- _____ Della Taylor, Principal Engineer dataylor@dekalbcountyga.gov