

City of Maryville Water Plans Review Checklist

Project: _____

Date of Review: _____

Engineer: _____

Phone #: _____

Developer: _____

Phone #: _____

The list below is intended as a guide to the critical items required by Tennessee State requirements and the Rules, Regulations, Rate and Policies of the City of Maryville Water Quality Control Department. The engineer is responsible for being familiar with and meeting the design standards of the City and State. It is strongly suggested that a predesign conference be schedule with a preliminary development layout including topography and water features available for the conference.

State of Tennessee required items:

Plans and Specifications:

The State of Tennessee notes: "Detail plans shall include plan views, elevations, sections, profiles and supplementary structures, the outline form of equipment, locations and size of piping, water levels, ground elevations and erosion control facilities."

State of Tennessee requirements General Plan of sewer:

- Approximate plan size 24" x 36"
- Location map
- Location, size, and direction of flow of all sewer lines
- Plans stamped and signed by licensed engineer
- Hydraulic calculations for all lines in the project showing adequacy either on the plans or in a supplementary report using the State of Tennessee format – ref. Chapter 2 of State of Tennessee standards
- Topography and elevations – both existing and proposed
- All bodies of water including direction of flow and high water elevations

State of Tennessee requirements Plan and Profile of Sewers:

- Maximum allowable scale 50 feet to the inch (State is 100 to the inch, COM is 50 feet) Vertical scale 10 feet to the inch maximum. Use corresponding scales plans and profiles
- Location of streets and sewers
- Sewer details – Lines of ground surface, pipe type (material/class), pipe size, manhole stationing, manhole inverts elevations, surface elevation at manhole, manhole top elevation, length and slope of sewer between adjacent manholes, manholes labeled on both the plan and profile. MH distance <350 ft.

- Where any question of depth – elevation and location of basement floor or other low point source shall be plotted on the profile of the sewer which is to serve the house or source in question.
- Locations of all special features.
- Locations of all existing or planned structures below and above ground with might interfere with the proposed construction, particularly water mains, gas mains, storm drains, etc. (show on both plan and profile)
- Detail drawing of all stream crossings – reference Chapter 2 of State of Tennessee regulations for stream crossing requirements.
- Detail drawings of special joints, appurtenances, etc.
- Location of adjacent streams and extent of streamside vegetation.
- General topography including trees within 25 feet of center line of proposed sewer. (Note: This is both existing and proposed).

City of Maryville Additional requirements not listed above:

- Overall project and layout map showing entire project
- Right-of-ways and Easements needed for the sewer that fall outside of the property owned or controlled by the developer.
- Lot lines and locations shown on all plan views including lot numbers
- Street names
- Location and size of services – distance upstream from downstream manhole and length of 6 inch lateral and depth of the lateral needed at the end of the lateral to serve the lot.
- Inverts for the manholes – inlet inverts and outlet invert rather than a single manhole, centerline invert. (Outlet should be a minimum of 0.1 feet lower than invert)
- Manhole deflection angles.
- 100 foot stationing of sewer lines and stationing of all appurtenances on plan and any included profile views
- Plan and profile shall be on the same sheet and oriented in generally the same direction.
- Servicing utility name, address and phone on first sheet of plans. (City of Maryville Water Quality Control Department, 332 Home Avenue, Maryville, TN 37801, (865) 981-3300)
- Developer and property owner name, address and phone on first sheet of plans.
- Engineer name, address and phone number on first sheet of plans.
- Project name, date, scale, north arrow, and sheet numbers on all sheets.
- Inclusion of City of Maryville detail sheets or similar relevant detail sheets. Details must match City of Maryville standards.

- NOTE: All construction is to be conformance with WQC Rules, Regulations, Rates, and Policies. (Note: if the standards details are included as part of the plan this note is already on the City of Maryville Standard Detail sheets and does not need to be included on any other sheets.)
- Revisions tabulated on re-submittals
- Benchmarks (All plans to include the establishment of a minimum of one benchmark for each project. Benchmark and its elevation are to be shown on the plan set. Benchmark to be maintained through the completion of the project.)