



WATER SITE PLAN REVIEW CHECKLIST

(Required for any development which extends or installs public water mains.)

Site Plan Number: _____

Date: _____ **Project Name:** _____

Project Address: _____

Owner Name: _____

Owner Address: _____

Phone Number: _____ **Owner Email:** _____

Project Description: _____

WATER PLANS REVIEW CHECKLIST

This checklist is intended as a guide to the critical items required by the State of Tennessee, and the City of Maryville Water & Sewer Department. The Engineer is responsible for being familiar with and meeting the design standards of the state and city. It is strongly suggested that a pre-design conference be scheduled with a preliminary development layout including topography and water features available for the conference. Each element presented in this list shall be checked "Yes", as applicable to the site. Checks placed under the "No" column shall be justified in a written statement attached to this checklist. Elements of the plan that are not applicable for the site shall be marked as "N/A".

- Yes No N/A **1. Date of plan and date of any revision(s) on plan sheets.**
- Yes No N/A **2. Plans stamped and sealed by a licensed engineer.**
- Yes No N/A **3. Vicinity map including: North arrow, adjacent roadways, site boundary lines, and latitude/longitude. Sheet sizes 24"x36".**
- Yes No N/A **4. Name of water system and county in which it is located.**
- Yes No N/A **5. Location, size and material of all water lines and appurtenances relative to the project- both existing and for construction (City of Maryville uses Class 51 Cement Mortar Lined Ductile Iron Pipe for all new construction- older pipes may be of different materials, please check with WQC engineering for existing pipe materials)**
- Yes No N/A **6. Hydraulic profile or data and computations showing hydraulics or proposed additions to the distribution system. (NOTE- City of Maryville Minimum standards are 750 GPM fire flow with 30 PSI residual pressure- this exceeds the State of Tennessee minimums. The City of Maryville also requires the lowest and highest static residual pressure to be calculated and shown on the plans.)**
- Yes No N/A **7. Location/ (100ft) stationing of valves, fire hydrants, tees, reducers/enlargers, bends, and other appurtenances.**



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- Yes No N/A **8. Scale drawings which clearly show the following items:**
- a. The following lines with accurate bearings and distances:
 - Property boundaries
 - Lot lines
 - Right-of-way lines of streets.
 - Utility access or other easements (existing and proposed for water lines that fall outside of the property owned or controlled by the developer)
 - b. Existing topographic contours in GRAYSCALE line style including trees within 25ft of centerline of proposed main.
 - c. Proposed topographic contours presented at a 2-foot interval in a BOLD line style within 25ft of centerline of proposed main.
- Yes No N/A **9. Maximum allowable plan view scale 1" : 100' Vertical scale maximum of 1" : 10' Use corresponding horizontal scales for plans and profiles.**
- Yes No N/A **10. Sufficient detail shown on the plans to allow for material take off and location of lines in the field by a third party.**
- Yes No N/A **11. Locations of proposed water lines in relation to roads, bridges, and other identifiable objects.**
- Yes No N/A **12. Minimum pipe size is 6" if gridded with maximum leg length of 800ft, otherwise all pipe shall have a minimum diameter of 8".**
- Yes No N/A **13. Lot lines and locations shown on all plan views including lot numbers.**
- Yes No N/A **14. Street names and edge of pavement locations as well as right of way.**
- Yes No N/A **15. Location of proposed service connection- City of Maryville sets individual taps on the same side of the road as the water line and double settings on the opposite side of the road from the water line. Taps should be spaced to avoid conflict with sanitary sewer laterals.**
- Yes No N/A **16. Stream crossings providing profiles with elevations of the stream bed and the normal and extreme high and low water levels if this information is available.**
- Yes No N/A **17. Detail drawings of special joints, appurtenances, etc.**
- Yes No N/A **18. Plan & profile view shall be drawn for water lines 10" in diameter or larger. Existing lines shall be field located whenever reasonable and the source of the utility locations noted on the plans.**
- Yes No N/A **19. For all lines 8" in diameter and smaller, the relevant elevations of all pipe lines and conflicting structures at utility crossings shall be shown- This shall include a short profile view of all utility crossings of the water line where new utility lines are being constructed.**



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- Yes No N/A **20. Include the radius of any turns where a joint deflection is to be used to curve the water line. For eight inch pipe, the maximum deflection is 5 degrees/per joint. For curves tighter than this please include appropriate bends as part of the plans.**
- Yes No N/A **21. Plan and profile view shall be on the same sheet and oriented in generally the same direction.**
- Yes No N/A **22. Servicing utility name, address and phone on first sheet of plans. (City of Maryville Water & Sewer Department, 332 Home Avenue, Maryville, TN 37801, (865) 273-3300)**
- Yes No N/A **23. Developer and property owner name, address and phone on first sheet of plans.**
- Yes No N/A **24. Engineer name, address and phone on first sheet of the plans.**
- Yes No N/A **25. Note: All construction is to be in accordance with the Water & Sewer Department Rules, Regulations, Rates, and Policies. (Note if the standard details are included as part of the plan, this note is already on the City of Maryville Standard Detail Sheet, and does not need to be included on any other sheets)**
- Yes No N/A **26. A key map showing location of detailed drawings when project is comprehensive.**
- Yes No N/A **27. Revisions tabulated on re-submittals.**
- Yes No N/A **28. Benchmarks (All plans to include the establishment of a minimum of one benchmark for each project. Benchmark and its elevation are to be shown in the plan set. Benchmark is to be maintained through the completion of the project.)**
- Yes No N/A **29. Inclusion of City of Maryville Detail sheets or similar relevant detail sheets. Details must match City of Maryville standards.**

SUBMITTED BY:

Print Name: _____

Company Name: _____

Address: _____

Phone Number: _____ Email: _____

Signature: _____