



PROJECT SUMMARY SHEET FOR PLAN REVIEW OF PROPOSED WATERLINE EXTENSIONS

Water System Name Butler County Board of Commissioners

Project Title (same as listed on water supply data sheet): _____

The following is a summary of the proposed waterline:

PIPE MATERIAL	DIAMETER (INCHES)	LENGTH (FEET)	LOCATION	APPLICABLE STANDARDS*	CLASS	PRESSURE RATING
Ductile Iron				AWWA	53	450
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*Material and installation, JUSTIFY IF NOT AN AWWA STANDARD

1. Will all pipe, fittings, valves and fire hydrants conform to the latest standards issued by AWWA and/or NSF? Yes No
2. Will all packing and jointing materials used for pipe joints conform to the requirements of AWWA? Yes No
3. Will all waterlines be pressure tested and tested for leakage in accordance with applicable AWWA Standards? Yes No
 - a. Test to be performed by _____
 - b. Test to be supervised by Butler County Water and Sewer Department
4. Will all waterlines be disinfected in accordance with AWWA Standard C651? Yes No
 - a. Disinfection to be performed by _____
 - b. Disinfection to be supervised by Butler County Water and Sewer Department
 - c. Microbiological samples to be analyzed at Butler County Water and Sewer Department

5. Is the system designed to maintain a minimum pressure of 20 psi at ground level at all points in the system under all conditions of flow? Yes X No
6. Will the normal working pressure in the system be between 35 and 60 psi? Yes No
7. Is the system designed to provide fire protection? Yes X No
- a. Fire protection class Const. Class 1 . 750
 GPM minimum at 20 PSI Residual pressure
- b. Will hydrants be provided as recommended by the State ISO? Yes X No
 Maximum spacing 500
- c. Will hydrant drains be plugged? Yes No X
- d. Is the minimum size of all waterlines at least six inches? Yes X No
8. Will a backflow prevention program be implemented or followed to prevent cross connections with unapproved sources? Yes X No
9. Are there any master meters to be installed as part of this project? Yes No X
- NOTE: If the answer above is yes, contact your Ohio EPA district office to determine if the entity being served by a master meter is an exempt public water system.
10. Is at least four feet of cover provided to protect the waterline from freezing? Minimum cover 4 feet. Yes X No
11. What is the maximum spacing between shutoff valves? 800 feet
 (each intersection and 800 feet maximum recommended, 500 feet in commercial areas)
12. Have the number of dead end mains been minimized? Yes X No
13. Where dead end mains occur, has a means of flushing the main been provided? (2 fpm minimum) Yes X No
14. Will all waterlines have at least 10 feet horizontal separation (edge to edge) from sanitary sewers? Yes X No

15. Will all waterlines which cross sanitary sewers have a minimum vertical separation (outside to outside) of 18 inches? Yes X No
16. Will a reliable means to detect leakage at water crossings wider than 15 feet be provided? N/A Yes No
17. Will piping at water crossing have flexible watertight joints? N/A Yes No
18. Are air relief valves provided (attached summary sheet)? Yes No X

Provide a justification for any of the above questions which are answered "no".

6. The system has a static HGL of 1,000 feet , static pressure for the project is psi. For static pressures above 80 psi, BCDES requires individual pressure reducing valves on all services.

7c. BCDES requires all hydrants installed in areas where clay or impervious soil exists to have a 2-foot diameter, 3-foot deep drainage pit, as per Great Lakes Upper Mississippi River Board of State Public Health & Environmental Managers Recommended Standards for Water Works Section 8.3.4.

18. Service lines are tapped near the top of the water main and an attempt is made to locate hydrants at all high points in the water main. BCDES has experienced numerous failure in automatic air relief valves, therefore we no longer use them in our water system. Manual air relief valves will be provided where no other means of relief is available.

Name: _____ Date: _____
 Martha A. Shelby, P.E., Engineering & Construction Manager