CMOM IN WISCONSIN
5. DESIGN & PERFORMANCE PROVISIONS

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Design and Performance Provisions is the fifth of the eight elements of a Capacity, Management, Operation & Maintenance (CMOM) Program.

Design and performance standards are often contained in state or municipal codes. These standards establish requirements for collection system design, construction, inspection and final approval. Some municipalities have employees that review, approve, and/or inspect collection system design and construction. Other municipalities or utilities contract with a registered professional engineer to perform these services or require the company constructing sewers to hire a qualified professional to provide these services. The CMOM Program summary should include the procedures followed to maintain control over the design, construction and inspection of the collection system.

Design and Performance Standards Procedures

Check those that apply to your collection system and include these documents in your written CMOM Program.
· **State Plumbing Code**

*Department of Safety and Professional Services, SPS 382, Wisconsin Administrative Code—Design, Construction, Installation, Supervision, Maintenance and Inspection of Plumbing* must be followed when designing and constructing residential and commercial plumbing and pipes. An important installation is the connection of the private laterals to the sewer main. Often these connections, if not installed properly, can be significant sources of infiltration, so a municipal program that ensures proper construction and connection of private lateral pipes will significantly control infiltration.

· **State Sewerage System Code(s)**

*Department of Natural Resources Chapter NR 110, Wisconsin Administrative Code—Sewerage Systems* must be followed when designing and constructing sewage conveyance systems.

· **Local Municipal Code Requirement**

Local communities may have their own set of standards and requirements, specific to community needs, in the design and construction of building plumbing and sewerage systems.

Who designs your sewer system and what standards do they follow? Who inspects sewer construction work and what procedures are followed?

**Check those that apply below and identify the standards and procedures that are followed for each.**

- Municipal employees for sewer design work
- Contracted services for sewer design work
- Municipal employees for sewer construction inspection work
- Contracted services for sewer construction inspection work

I/I reduction starts with construction. Being sure your sewer pipes, both mainlines and private laterals, are constructed and installed properly, is an investment in the long-term life and integrity of the pipes and maintaining a tight sewer system, with very low I/I. Before the pipes are covered, it is especially important to
be sure that all joints and connections are properly installed because once it is backfilled, you may not see that pipe again in your lifetime. Getting the job done right from the start will serve your community residents well for many years and keep I/I to a minimum. So this construction season, take the time to inspect new sewers and private lateral connections! After all, “A inspection, in time, saves I (infiltration)”. Dig safely and enjoy your summer.