

## **CHAPTER 6**

### **DISTRIBUTION FACILITIES DESIGN & CONSTRUCTION STANDARDS**

#### **OBJECTIVE**

The objective of this chapter is to document the Association's design and construction standards to allow the Association to obtain DOH approval to utilize the alternative review process for construction of new and replaced water distribution facilities. Through this process, a purveyor needs no further approval from DOH for distribution project reports, construction documents, or installation of distribution mains, pipe linings, and tank coatings.

Thus chapter includes the following elements:

- System Standards, Policies and Procedures
- Project Review Procedures
- Policies and Requirements for Outside Parties
- Design Standards
- Construction Standards
- Construction Inspection Procedures

The Association's *Development Standards* are located in Appendix D.

#### **SYSTEM STANDARDS, POLICIES AND PROCEDURES**

The Association has developed the *Development Standards* document to govern any improvements within the public right-of-way and/or public easements, all improvements required within the proposed right-of-way of new subdivisions and for all improvements intended for maintenance by the Association.

#### **PROJECT REVIEW PROCEDURES**

Project reports and construction documents are submitted to the Association for review and approval. Construction documents that do not meet the standards are returned for resubmittal if the deviation is significant, or returned with corrections noted if the deviation is minor. Construction may not proceed unless the Association has stamped and signed the drawings "approved."

## **POLICIES AND REQUIREMENTS FOR OUTSIDE PARTIES**

The policies and requirements for development within the Association service area can be found in the Development Standards in Appendix D. Included in the Appendix are written descriptions of the policies regarding the water system and also standard details that show the requirements.

Any project that needs to be approved by the Association has to meet these requirements.

## **DESIGN STANDARD**

All design shall comply with Washington Department of Health *Water System Design Manual (2001)*.

## **CONSTRUCTION STANDARDS (MATERIALS AND METHODS)**

Appendix D has copies of the water design standards from the Association's *Development Standards*. All construction shall be in accordance with the following, including any amendments or revisions:

- 2008 Washington Department of Transportation Standard Specifications for Roadway, Bridge, and Municipal Construction
- AWWA Standards
- 2007 King County Road Standards

In the event of a conflict between these standards, the one which provides for a higher level of public safety shall take precedence.

## **CONSTRUCTION INSPECTION PROCEDURES**

The Association inspects all new construction during and after construction to ensure that projects are constructed in accordance with the construction standards. This inspection includes being present during pressure test procedures and, if applicable, disinfection procedures and water quality sampling procedures to ensure that all have been properly performed. As-builts of the final system are to be submitted for each project. Service will not be provided until all requirements are satisfied.

A Construction Completion Report is completed for each project. The report is to be prepared by the developer for the new development and by the Association Engineer for system improvements. New development Construction Reports are submitted to the Association Engineer for review and approval. System Improvement Construction Reports are submitted to the Department of Health for review and approval.

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