DESIGN CRITERIA

1. Related Sections: See related Division 22 Design Criteria for piping inside and outside the building, and Division 26 Design Criteria for required cathodic protection.
2. The water utility has been privatized at a number of Installations. If this is the case, all work to the water system must be in strict accordance with the requirements of the private utility company. The private utility company's details and specifications should be included, in their original form, in the solicitation documents. Additional specifications and details may be added by the designer to further clarify the intent of the design, but care must be taken to ensure that the additional details do not conflict with those of the private utility provider.
3. PVC and ductile iron watermain materials are listed in the standard specification. PVC should be the preferred alternate based on the cost savings. In the case where an Installation will not allow PVC watermain and fittings, ductile iron should be used. If ductile iron is used, there are also provisions in the standard specifications for CORROSION PROTECTION PIPING ENCASEMENT where required based on local conditions. The A/E should delete the sections of the specifications that do not apply.
4. Two types of water valves are included within the guide specification. They are non-rising stem metal seated gate valves, and non-rising stem resilient seated gate valves. The A/E should evaluate which type should be used based on the local standards and modify the guide specification accordingly.
5. Specification for precast concrete valve vaults is included in the guide specification, in the event they are required by the Installation. Delete this specification item if not required. Standard installation for DeCA projects should include valve boxes. Pressure connections to existing watermain must be made in valve vaults.
6. Verify that the Installation does not have any special watermain chlorination or testing requirements that are not covered in the guide specification. Any unique requirements should be added to the specification.
7. Determine minimum utility ground cover requirements of local jurisdictional agency and clearly indicate in specification or on drawings.
8. A/E shall investigate if the Installation will allow the existing water main to be shut down during connection of the new water main required for the Project. Further determine what the extent of any restrictions placed on the Contractor will be, such as duration of shutdown and time restrictions. This should be specified in the Contract Documents so the Contractors know if pressure connections are required or not.
9. If local agencies having jurisdiction have standard drawings for watermain construction, include them in the Contract Documents. Confirm that no conflicts exist between local standard drawings and Project Specifications.

END OF SECTION