

Section 5.0: Design and Performance Provisions

5.1 Regulatory Requirements

- a. Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems.
- b. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

5.1.a. Design and construction standards and specifications for the installation of new sanitary sewer systems, pump stations and other appurtenances; and for the rehabilitation and repair of existing sanitary sewer systems.

New and rehabilitated sewers and pump stations are planned, designed and constructed in accordance with the TSD R&R Collection. The rules are a comprehensive set of criteria for planning and design of new sewers, pump stations, force mains, and appurtenances, and for the rehabilitation of existing sewers. The TSD R&R for the Sewage Collection System is broken down into 5 parts:

1. General Conditions and Rules
2. Standard Criteria for the Design of the Sewer System and Improvements
3. Standard Specifications for Construction of Sewage Systems and Construction Inspection
4. Customer Fees, Application for Service, monthly Sewer Service Charges, Service Rules and Enforcement of R&R
5. Standard Plates for Construction of Sewer Systems.

Standard Plans are used to provide consistency and quality in design. The TSD encourages users of the Rules and Standard Plans to critique and provide feedback on the standards. Thus, the Rules and the Standard Plans are continuously being updated to incorporate improved materials, methods and processes.

As new products are introduced, they undergo a thorough review and evaluation by the “Greenbook” Committee, a group of public works officials in the Southern California area that are dedicated to high performance construction materials and standards. The “Greenbook” Committee is a clearinghouse for the review of new products and construction methods. It develops standard specifications that become part of the “Greenbook”. The TSD references applicable “Greenbook” specifications as appropriate for the construction of new and repair sewer projects. Emergency repairs are conducted according to the “Greenbook” standards.

All system components are designed to meet permit requirements of the various federal, state and local agencies. In addition, environmental documents are prepared to comply with the California Environmental Quality Act (CEQA), the National Environmental

Policy Act (NEPA), or both as appropriate. This process ensures that projects benefit from the input of all affected and interested parties.

The TSDs Engineering staff are responsible for updating and maintaining the TSDs design requirements and standards. Users of the design guide are responsible for submitting suggested modifications to the standards. The TSDs Engineering staff are also responsible for enforcing compliance with the plans and specifications for installing new sewers, pumps, other appurtenances, for rehabilitation and repair projects.

5.1.b. Procedures and standards for inspecting and testing the installation of new sewers, pumps, and other appurtenances and for rehabilitation and repair projects.

The TSDs Engineering staff or their representative(s) provide inspection on all rehabilitation and new sewer system construction contracts. Written inspection procedures are followed to ensure that sewer system facilities are built to conform to the plans and specifications. Inspections are conducted both on the jobsite. The TSD does not accept the installed components until they pass all required performance tests and a field acceptance from the inspector is issued. New or rehabilitated system components are placed into service upon certification by TSDs inspectors that they have been installed in accordance with plans and specifications.

References

Building News, “Standard Specifications for Public Works Construction,” (referred to as the “Greenbook”), 1997 Edition amendments, 1999 Supplement to the “Greenbook”

Building News, “Standard Plans for Public Works Construction”, Latest Edition

Building News, “Public Works Inspectors’ Manual”, Latest Edition

Uniform Plumbing Code, Latest Edition

Triunfo Sanitation District Rules and Regulations for the Sewage Discharge System, June 26, 1995, Resolution No. T95-1.

Triunfo Sanitation District Rules and Regulations for the Sewage Collection System, April 24, 1989