

SECTION 2 – GENERAL

2.1 AUTHORITY AND PURPOSE

Clackamas County Service District No. 1 (CCSD#1), Clackamas County, Oregon, was organized pursuant to Chapter 451, Oregon Revised Statutes, for the purpose of providing sewerage works, including all facilities necessary for collecting, pumping, treating and disposing of sanitary or storm sewage within its boundaries. It is further declared to be the policy of the District to provide and offer sewage disposal service for such areas adjacent to the District as may, in the judgment of the District, be feasibly served upon such terms, conditions, and rates as the District shall, from time to time, determine. The objective of the District's Rules and Regulations are: (a) to advance public health and welfare; (b) to prevent the introduction of pollutants which will interfere with the operation of the sewage system or contaminate the resulting sludge; (c) to prevent the introduction of pollutants which will pass through the sewage system, inadequately treated, into receiving waters or the atmosphere or otherwise be incompatible with the system; (d) to protect District personnel who may come into contact with sewage, sludge and effluent in the course of their employment as well as protecting the general public; (e) to ensure that the District complies with its NPDES permit conditions, sludge use and disposal requirements and other applicable Federal and State laws; (f) to improve the opportunity to recycle and reclaim wastewater and biosolids from the system; and (g) to provide for the equitable distribution of the costs of the sewage system.

This Guide incorporates all provisions of CCSD#1 Rules and Regulations originally adopted August 22, 1974, and all revisions set forth in the Board Orders and incorporated by reference.

The purpose of This Guide is to provide a consistent policy under which certain physical aspects of sanitary sewer design will be implemented. Most of the elements contained in this document are Public Works oriented and most are related to public improvements; however, it is intended they apply to both public and private work designated herein.

Public improvements are conditioned through the development review and land use approval process, described and administered under the Clackamas County Zoning and Development Ordinance or by Federal, State, or other Local Government regulation. Completed engineering plans for all proposed improvements within public right-of-way or impacting public facilities or easements under jurisdiction of the County shall be submitted to CCSD#1 for approval. Such plans shall be prepared under the supervision and display the stamp of a licensed Engineer. Additionally, private property improvements impacting public right-of-way, public facilities, or surface water discharge shall be subject to the same plan submittal and approval requirements.

Public improvement or construction of public sanitary sewer facilities shall not precede plan approval and issuance of a " PUBLIC SEWER EXTENSION PERMIT (found in the Appendix of This Guide).

This Guide cannot provide for all situations. This Guide is intended to assist but not to substitute for competent work by design professionals. It is expected that engineers will bring to each project the best of skills from their respective disciplines.

This Guide is also not intended to limit unreasonably any innovative or creative effort which could result in better quality, cost savings, or both. Any proposed departure from This Guide will be judged, however, on the likelihood that such variances will produce compensating or comparable result, in every way adequate for the user/District.

Following from the above purpose, This Guide has the objective of developing a sanitary sewer system that will:

1. Be of adequate design to carry the expected flow, within the design life, and at sufficient depth to serve adjacent properties;
2. Have sufficient slope to maintain a minimum velocity of two (2) feet per second when flowing half full;
3. Have sufficient structural strength to withstand all external loads which may be imposed;
4. Be of materials resistant to both corrosion and erosion with a minimum design life of 50 years;
5. Be economical and safe to build and maintain; and
6. Prevent infiltration or inflow of ground and surface waters and exfiltration of sewage.

Alternate materials and methods will be considered for approval on the basis of these objectives.

2.2 ENGINEERING POLICY

It shall be the policy of the District to require compliance with Oregon Revised Statute 672 for professional engineers.

All engineering plans, reports, or documents shall be prepared by a registered professional engineer, or by a subordinate employee under the engineer's direction, and shall be signed by the engineer and stamped with the engineer's seal to indicate the engineer's responsibility for them. It shall be the engineer's responsibility to review any proposed public facility extension, modification or other change with the district prior to engineering or proposed design work, to determine any special requirements or whether the proposal is permissible. A "Preliminary Review" and/or a "Plans Approved for Construction" (or equivalent) stamp of the district on the plans, etc., for any job, does not in any way relieve the engineer of responsibility to meet all requirements of the district for obligation to protect life, health, and property of the public. The plan for any project shall be revised or supplemented at any time it is determined that the full requirements of the district have not been met.

All Drawings submitted for final approval shall be stamped and signed by a registered professional engineer. No approval shall be made without signed and stamped Drawings.

2.3 APPLICABILITY

This Guide shall govern all construction and upgrading of all public and privately financed public sewerage facilities in the District and applicable work within its service areas.

2.4 STANDARD SPECIFICATIONS

Except as otherwise provided by This Guide, all construction design detail, workmanship and materials shall be in accordance with the current edition of the CCSD#1 Standard Sewer Specifications, the Supplement and drawings.

2.5 APPROVAL OF ALTERNATE MATERIALS OR METHODS

Any substitution material or alternate method not explicitly approved herein will be considered for approval as set forth in Section 2.1 of This Guide. Persons seeking such approvals shall make application in writing. Approval of any deviation from This Guide will be in written form. Approval of minor matters will be made in writing if requested.

Any alternate material or method must meet or exceed the minimum requirements set in This Guide.

The written application is to include, but is not limited to, the manufacturer's specifications and testing results, design drawings, calculations, reason and justification, and other pertinent information.

Any deviations or special problems shall be reviewed on a case-by-case basis and approved by the District. When requested by the District, full design calculations shall be submitted for review with the request for approval.

2.5.1 MODIFICATION PROCESS

1. Submittal

Requests to modify shall be submitted in writing to the District to the attention of the Technical Services Coordinator. This written request shall state the desired modification(s), the reason(s) for the request(s) and a comparison between the specification(s)/standard(s) and the modification(s) as far as performance, etc.

Any modification or variance of This Guide should be documented and reference nationally accepted specifications/standards. The use thereof shall not compromise public safety or the intent of the District's standards.

2. Review

The request to modify shall be reviewed first by the Technical Services Coordinator who shall make one of the following decisions:

1. Approve as is.
2. Approve with changes.
3. Deny with an explanation.

Approval of a site-specific request shall not constitute a precedent, unless the approval is incorporated in subsequent issuance's of This Guide.

3. Appeal

Applicant may make a written appeal of the Technical Services Coordinator decision to the District's Engineer within 30 days of receipt of the written decision.

The District's Engineer shall review the appeal and make a separate written decision to either denial the appeal or modify the prior decision. The District's Engineer shall respond in writing within 30 days of receipt of the appeal by the Applicant.

Applicant may make a written appeal of the District's Engineer's decision to the Director within 30 days of receipt of the findings under Sec. 11 of the District's Rules and Regulations. Applicant must also obtain DEQ approval for the modification.

2.6 SPECIAL DESIGN APPLICATIONS

Special applications not covered in This Guide require review and approval by the District. Submittal of full design calculations, supplemental drawings and information will be required prior to any approval.

Such application which may occur requiring special review and approval are among, but not limited to, the following:

Sewer Force Mains	Sewage Pump Stations
Relining of Existing Sewers	Sewer Siphons
Internal Sealing of Existing Sewers	Sewage Treatment Plants
Sewer Regulatory Devices	Sewer Flow Measurement/Monitoring Devices

2.7 REVISIONS TO GUIDE

It is anticipated that revisions to This Guide will be made from time to time. The date appearing on the bottom of this page is the date of the latest revision of this copy. Users should apply the latest published issue to the work contemplated. Copies of the latest published issue of This Guide or the most current updates may be obtained from Water Environment Services offices on Sunnybrook Blvd., or from our web site.

<http://www.co.clackamas.or.us/wes>

Parenthetical notations at the end of sections indicate the most recent change to those sections. Sections without notations are from the original Guide. Some sections may be changed more than once and it shall be the user's responsibility to maintain his/her copy of This Guide with the latest changes.

REVISIONS TO THIS GUIDE

DATE

DESCRIPTION

JUNE 1, 2001

Original Issue