



THE CITY OF SAN DIEGO

M E M O R A N D U M

DATE: March 25, 2013

TO: Distribution

FROM: James Nagelvoort, P.E., City Engineer

SUBJECT: Adoption of the Sewer Design Guide 2013 Edition

The City of San Diego, Public Utilities Department has adopted the 2013 edition of the City of San Diego's Sewer Design Guide. This latest edition includes updates to the design standards and will be posted on the Department website, <http://www.sandiego.gov/mwwd/business/sewer.shtml>. A summary of the changes are described below:

Chapter 1

- Added clarification regarding separation of sewer mains from other utilities
- Mains deeper than 20 feet and any connections to trunk sewers now require approval by the Wastewater Collection Division Senior Engineer
- Added clarification on the criteria and requirements for proposing a private pump station

Chapter 2

- Added clarification for the allowable depth of mains in open space areas and adjacent to buildings
- Added clarification for allowable changes of direction in mains
- Added locations prohibited for sewer mains to include environmentally sensitive areas (coastal bluffs, canyons, steep slopes, etc.)
- Added clarification on when extension of mains is required in existing neighborhoods and for dead-end and cul-de-sac mains
- Added clarification on transitions through manholes and manhole shelf requirements
- Added clarification on requirements when raising manhole covers
- Added new standard for maximum depth of 7' for sewer laterals at the curb line
- Revised requirements for when connections to trunk sewers are allowed
- Added requirement for installation of P-traps in certain types sewer lateral connections
- Added clarification for installations of property line cleanouts on laterals
- Added clarification for shared (common) lateral connections
- Added requirements for replacement of sewer laterals during CIP construction
- Added clarification on the definition of encroachment laterals

Chapter 2 (continued)

- Added a new section on requirements for rehabilitation of mains, laterals and manholes
- New requirement for all development plans to provide a standard checklist with each plan resubmittal which addresses all plan review comments

Chapter 3

- Revised and clarified access facility requirements for sewers located in environmentally sensitive lands
- Added detailed planting requirements for allowable vegetation adjacent to sewer access roads and sewer access paths

Chapter 4

- Added clarification on requirements for force-main isolation valves and pipe sleeves in bridges
- Added clarification for access requirements to pipelines located in bridges

Chapter 5

- All sewer mains to be abandoned in place, regardless of size or location, must now be sand or slurry filled
- Where facilities are abandoned or relocated by private development or CIP, and the sewer easement is no longer required, that easement must be abandoned as part of the work

Chapter 6

- Acceptable corrosion control methods for various pipe materials have been updated with the most recent technology and methods
- Sections on pre-design corrosion surveys, including soil resistivity and laboratory soils testing, and for corrosion monitoring and cathodic protection design have been added which incorporate many previous requirements but also add clarification on testing and design parameters for corrosion control for pipelines and appurtenances
- Added clarification that concrete encasement is not allowed for PVC pipes
- Added clarification for identification of potential stray current sources

Chapter 7


- Added sections regarding requirements for energy efficient designs in pump stations
- Added clarifications for special station requirements and that WWC Senior must determine and approve all special station requirements
- Added updates regarding requirements for check valves in pump stations
- Added new sections and updated requirements for emergency generator engines and

- control panels in pump stations
- Added clarification for odor control requirements in wet wells in pump stations
- Added new requirement for ½” hose bib inside pump stations
- Added minimum and maximum velocity requirements for pump station force mains
- Added new requirement for PVC sleeves in all pump station floor penetrations
- Added minor additional requirements for testing of pump station components
- Add new requirement for wet well access to be outside of the dry well

Figures and Exhibits

- Revised Figure 2-1 for sewer lateral connections
- Added Exhibit 3-1 “Sewer Access Roads – New Sewers in Environmentally Sensitive Lands”
- Added Exhibit 3-2 “Sewer Access Paths – Existing Sewers in Environmentally Sensitive Lands”
- Deleted Attachment 1: “State of California Department of Health Services Criteria for the Separation of Water Mains and Sanitary Sewers” Instead, the user is referred to the State of California’s Department of Health Standards, Title 22
- Added Attachment 1: “City of San Diego Council Policies 400-13 and 400-14”
- Attachment 2 has been modified to include the actual “Deviation From Standards” form
- Added Attachment 4: “Approved Planting Palette for Access Facility Plant Material” which is to be used for plantings adjacent to sewer access facilities in or adjacent to environmentally sensitive lands
- Added Attachment 5: “Minimum Intake Checklist for Construction Documents”, which is now required to be used by plan preparers as part of the resubmittal process

A three-month period beginning on March 25th, 2013 will be allowed to transition projects in the design stage. All projects currently in design should attempt to incorporate the new standards wherever possible. However, starting June 24th, 2013, all designs must follow the new standards. Please notify project engineers, designers, and developers of the new standards. If you have any questions or comments regarding the 2013 edition, please contact Tung Phung at (858) 292-6425 or tphung@sandiego.gov.



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