

RULE NO.: R161-17.15

NOTICE OF PROPOSED RULE

POSTING DATE: July 6, 2017

The Director of the Department of Austin Water proposes to adopt the following rule after August 6, 2017.

Comments on the proposed rule are requested from the public. Comments should be submitted to Mr. Eric Langhout, P.E.; Austin Water, 3907 S. Industrial Dr., Suite 236, Austin, Texas 78744, 512-972-0073, or via email at Eric.Langhout@austintexas.gov. To be considered, comments must be submitted before May 7, 2017, the 32nd day after the date this notice is posted. A summary of the written comments received will be included in the notice of rule adoption that must be posted for the rule to become effective.

An affordability impact statement regarding the proposed rule has been obtained and is available for inspection or copying at the address noted in the preceding paragraph.

EFFECTIVE DATE OF PROPOSED RULE

A rule proposed in this notice may not become effective before the effective date established by a separate notice of rule adoption. A notice of rule adoption may not be posted before August 6, 2017 (the 32nd day after the date of this notice) or not after September 13, 2017 (the 70th day after the date of this notice).

If a proposed rule is not adopted on or before September 13, 2017, it is automatically withdrawn and cannot be adopted without first posting a new notice of a proposed rule.

TEXT OF PROPOSED RULE

A copy of the complete text of the proposed rule is available for public inspection and copying at the following locations. Copies may be purchased at the following locations at a cost of ten cents per page:

Austin Water, located at 3907 S. Industrial Dr., Suite 236, Austin, Texas, 78744. See Mr. Eric Langhout, P.E. and:

Office of the City Clerk, City Hall, located at 301 West 2nd Street, Austin, Texas.

BRIEF EXPLANATION OF PROPOSED RULE

R161-17.15: Proposed revision to the Utility Criteria Manual Preface & Section 2.7

Rule 1 – UCM Preface

- This section is being changed in order to update it. This includes changing “Water and Wastewater Utility” to “AW” and “Texas Department of Health (TDH)” to “Texas Commission on Environmental Quality (TCEQ).” We are also taking out the Special Thanks and Special Recognition sections.

Rule 1 – UCM Section 2.7

- We are changing “AWU” to “AW” throughout the section and corrected a Section number.
- Section 2.7.3.D – This language is to require an All-weather access roadway to the lift stations. The all-weather access roadway is defined in Rule 2 – 2.9.4.J.16.

AUTHORITY FOR ADOPTION OF PROPOSED RULE

The authority and procedure for adoption of a rule to assist in the implementation, administration, or enforcement of a provision of the City Code is provided in Chapter 1-2 of the City Code. The authority to regulate construction requirements is established in Section 552.001 and Title 15 of the City Code.

CERTIFICATION BY CITY ATTORNEY

By signing this Notice of Proposed Rule R161-17.15, the City Attorney certifies the City Attorney has reviewed the rule and finds that adoption of the rule is a valid exercise of the Director's administrative authority.

REVIEWED AND APPROVED



Greg Meszaros, Director
Austin Water

Date: 6/22/17



Anne L. Morgan
City Attorney

Date: 6/27/17

Austin Water 3rd Quarter 2017 Backup Material

For Proposed Changes to UCM Preface & Sect. 2.7

UTILITIES CRITERIA MANUAL

PREFACE

The purpose of the Utilities Criteria Manual is to provide guidelines and criteria for design, construction and coordination of electrical, water and wastewater facilities within the City of Austin and outside the city to the boundaries of the utility service areas. Information obtained from this manual is intended to provide orderly methods for obtaining utility services. The respective utilities should be contacted in the early stages of project planning to insure that adequate services are available and to obtain assistance in designing a system compatible with utility standards.

The guidelines presented in the Electric Utility portion of this manual are designed to provide architects, engineers and contractors with basic information on design and installation criteria for electric service. It is intended to be used in conjunction with direct communication with Electric Utility staff to insure proper and safe electrical installations.

The guidelines and criteria presented in the Austin Water (AW) and Wastewater Utility portion of this manual provide a foundation or starting point for rational engineering design decisions. The standards contained herein satisfy the guidelines and policies of the American Water Works Association (AWWA) and the Texas Commission on Environmental Quality (TCEQ) Department of Health (TDH) which in some cases are a minimum requirement. It includes relationships between known quantities and flows for determining amounts of water and wastewater needed for different projects in the City of Austin. Deviations in the recommendations set forth in this document should be warranted on good engineering judgment.

The Electric Utility portion of this manual represents the team effort of a large number of people in the Transmission and Distribution Division and the Heter Division of the Electric Utility. There was also valuable assistance from the Electrical Inspection Division of the Building Safety Department. Sincere thanks go to all of the people associated with the compilation of this manual.

~~Portions of this document were prepared by the Water and Wastewater Utility staff. Specific thanks go to Ronald L. Bond, P.E., Ted Naumann, P.E. and Hark Stehling of the Utility Development Services Division; Tracy Owens of the Wastewater Treatment Division; Kathy Hobbs of the Taps Division and Tom Ellison and Tom Kinnard of the Construction Inspection Division for their assistance in preparing the Water and Wastewater segment of this manual.~~

~~Special recognition goes to the professionals on the technical review committees organized by the Austin Contractors and Engineers Association, the Texas Capital Area Builders Association and the Land Development Council for their in-depth technical review and comments on this document.~~

2.7.0 - LIFT STATION REVIEW, APPROVAL AND ACCEPTANCE

2.7.1 - Engineering Report, Plans and Specifications Review and Approval

(NOTE: Lift station plan Approval shall expire one (1) year from the date of approval. If construction has not begun on the facility within one year of the approval date, plans must be resubmitted for approval and must include all criteria in effect at the time resubmitted.)

- A. Prior to design, four (4) copies of a detailed engineering report shall be submitted to ~~the~~ Austin Water ~~(AW) Utility~~ for review and approval of the lift station and all related line work. The engineering report shall include the following:
1. Justification for the proposed lift station. The report must clearly show that gravity lines are not available and are not economically feasible and that the number of lift stations has been minimized. This justification must include a cost benefit analysis of gravity versus lift station project including 30 years of operation and maintenance of the proposed system.
 2. A master development plan for the service area of the proposed lift station shall be prepared. This plan shall include a map showing the location of the lift station, the service area, the boundaries of the drainage basin it is in and the location of the nearest existing wastewater interceptor within that basin.
 3. Engineering calculations and data described in Sections 2.9.34.A and 2.9.34.H shall be contained in the engineering report.
 4. The Engineering Report shall be approved by ~~the Utility~~ ~~AW~~ prior to beginning preparation of the plans and specifications.
- B. Prior to construction, four (4) complete sets of the plans and specifications shall be submitted to ~~the Austin Water Utility~~ ~~AW~~ for review and approval. These plans and specifications shall be prepared, sealed, signed and dated by a Registered Professional Engineer licensed to practice in Texas and shall be in compliance with the approved Engineering Report. The plans and specifications for the lift station shall also include all related line work and a comprehensive site plan including any required access road(s) and easement(s).
- C. All drawings and specifications for lift stations within the City of Austin extra territorial jurisdiction (ETJ), submitted for review and approval, must demonstrate compliance with current ~~Austin Water Utility~~ ~~AW~~ Design Criteria and standard lift station specifications. Approval of the lift station plans and specification does not imply ~~the Austin Water Utility~~ ~~AW~~ will accept the lift station for operation and maintenance (Refer to 2.7.3).
1. Within the Water and Wastewater Impact Fee Service Area the following type of Lift Stations may be submitted for review and approval:
 - a. Submersible or grinder pump facilities with rated horsepower no greater than 25 BHP for the largest pump.
 - b. For installation with a required rated horsepower motor greater than 25 BHP ~~the Utility~~ ~~AW~~ prefers wet/dry well type installation. However, submersible non-clog pump facilities with a rated horsepower of between 25 BHP and 50 BHP may be considered on a case-by-case basis. The Engineer must submit cost comparisons for submersible versus wet/dry well installations. The cost comparison should include initial station costs, pump replacement costs, installation costs and all operational and maintenance cost including energy costs over the life of the station. The comparison should assume a typical service life for submersible pumps.
 2. Within the City of Austin ~~extra territorial jurisdiction (ETJ)~~ but outside the ~~Austin Water Utility~~ ~~AW~~ Impact Fee Service Area, submersible non-clog pump facilities with a rated horsepower of 25 to 50 BHP may be considered on a case-by-case basis.

2.7.2 - Submittal and Shop Drawing Review

Once the engineering report, drawings and specifications have been approved, at least four (4) complete sets of submittals and shop drawings shall be provided to the Facility Engineering Division of ~~AW~~ ~~the Utility~~. These submittals shall contain complete detailed information and drawings for all lift station equipment and components.

2.7.3 - City Operation and Maintenance Acceptance

The City of Austin may accept a lift station with a firm pumping capacity greater than 25 gpm for operation and maintenance provided the following conditions are met:

- A. The station is located within the City's approved wastewater service area and impact fee area.
- B. ~~The Austin Water Utility~~ **The City** has inspected the lift station and determined that it is constructed in conformance to the City's requirements. Any lift station not conforming to ~~Utility~~ **AW** standards shall be upgraded to ~~Utility~~ **AW** standards before the City of Austin will accept the lift stations for operation and maintenance.
- C. The owner or his representative has provided all information requested in Sections 2.7.1 and 2.7.2 above, five (5) complete sets of all Operations and Maintenance Manuals for all equipment installed, and has received ~~the Utility~~ **AW**'s approval.
- D. The owner has granted the City a wastewater easement for the lift station and access road, ***including the construction of the lift station and access road.*** A copy of the recorded easement plat, legal description and any other legal documents granting the easement shall be delivered to ~~the Austin Water Utility~~ **AW**. The easement shall extend to at least five (5) feet outside the lift station fence and shall include access road with turn-around areas that extend back to paved public right-of-way. This easement shall be separate and in addition to any necessary pipeline easement.

If the lift station is to become a permanent installation, transfer of ownership and title to the land may be required by the Director of ~~the Austin Water Utility~~ **AW** prior to acceptance of the station for operation and maintenance.

- E. A letter of assignment has been written to the City from the owner transferring title of the lift station and related equipment to the City of Austin. This letter shall be delivered to ~~the Austin Water Utility~~ **AW** before acceptance of the lift station for operation and maintenance. The original owner may regain title to a temporary lift station that was designed and constructed entirely at his expense and for which no refund was made by the City. After written notification by the City that the lift station has been abandoned, the original owner has one (1) month to notify the City in writing of his intent to regain title to the lift station.
- F. One (1) complete set of reproducible Mylar of the as-built drawings and a copy of the file on disk(s) in electronic format as specified by Facility Engineering shall also be provided to ~~the Austin Water Utility~~ **AW** prior to acceptance of the lift station for operation and maintenance.