

CITY OF SANTA ROSA  
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES

FROM: CARYN LOZADA, DEVELOPMENT REVIEW COORDINATOR,  
WATER ENGINEERING SERVICES

SUBJECT: UPDATE TO 2017 WATER, WASTEWATER AND RECYCLED  
WATER STANDARDS AND SPECIFICATIONS

AGENDA ACTION: RESOLUTION

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RECOMMENDATION

It is recommended by the Water Department that the Board of Public Utilities, by resolution, approve the update to the Water, Wastewater, Recycled Water Design and Construction Standards.

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EXECUTIVE SUMMARY

Santa Rosa Water's Design and Construction Standards (Standards) were updated and approved by the City Council in September of 2017. Since the Standards were adopted, Staff has identified several typographical errors and other edits that need to be corrected, including two of our Water Standards, Numbers 879 and 888 (both backflow standards) that had their numbers transposed and need to be corrected to avoid confusion for current customers and future applications. In addition, due to the Tubbs-Adobe fire in October of 2017 and the need to rebuild many homes that are now required to install fire sprinklers, new Standard 875F is being allowed for use for the properties rebuilding.

BACKGROUND

In September of 2017, Santa Rosa Water's Design and Construction Standards update was approved by the City Council via Resolution Number RES-2017-177. At that time, the Council delegated authority for the Board of Public Utilities to approve future Standards Updates. Since the adoption of the Standards in September of 2017, staff identified several typographical errors that needed to be corrected.

In addition, due to the Tubbs-Adobe Fire that occurred in October of 2017, these homes are required by State law to install fire sprinklers. In an effort to find cost effective

solutions, Water is allowing homes that are rebuilding to use the existing water service laterals. To achieve better flow rates for their fire sprinkler calculations, Water is proposing a new backflow option for the rebuild area. This would not be used for properties outside the fire areas at this time.

### PRIOR BOARD OF PUBLIC UTILITIES REVIEW

On June 1, 2017, the Board, by Resolution No. 1142, approved a recommendation that the City Council adopt the revised Water, Recycled Water and Sewer Standards and Specifications and delegate authority to the Board of Public Utilities to adopt future updates to the standards.

### ANALYSIS

Since the Standards were adopted in September 2017, the following errors that need to be corrected have been identified:

1. Staff recently discovered that the 2017 Water Standards 879 and 888 were mislabeled. In the 2017 Standards, the Above Ground Single Check Detector Assembly Standard was incorrectly identified as Standard 879 and Single Check Assembly in Vault Standard was incorrectly labeled as Standard 888.

These two standards need to be renumbered and corrected to match the previous version as follows:

- Standard 879 – Single Check Detector in Vault
- Standard 888 – Above Ground Single Check Detector Assembly

The master list of Water Standards for both Water and Recycled Water will also need to be corrected to match the number changes. This correction will avoid future confusion to our staff and customers who have these devices installed currently.

2. Water Standard 875 had a typographical error that referenced an incorrect note number on the detail portion. The error has been identified and corrected.
3. The Water and Sewer Construction Standard Specifications had typographical errors through-out that were identified and corrected.
4. The Sewage Peak Load Factor Graph located in the sewer design standards was found to have a typographical error in the formula on the graph along with a scale missing from the horizontal axis. The graph was corrected and verified by a staff Engineer.

5. Due to the Tubbs-Adobe fire that ravaged several thousand homes in October of 2017, these homes are being rebuilt and due to State law, are required to install fire sprinklers. The parcels are utilizing existing water service line infrastructure and not upsizing the services to the properties from the street (saving homeowners many thousands of dollars). Santa Rosa Water requires that a backflow prevention device be installed when a fire suppression system is installed onsite. The inline dual check backflow device not only costs less than the typical double check backflow device, it can improve the flow for the fire sprinklers. Santa Rosa Water has been allowing properties in the fire affected areas the option to install this device over other approved backflow standards to assist in the rebuilding efforts. The new Standard 875F provides this backflow option only for properties in the Tubbs-Adobe fire affected area at this time.

#### FISCAL IMPACT

None

#### ENVIRONMENTAL IMPACT

This action is exempt from the California Environmental Quality Act (CEQA) because it is not a project which has a potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, pursuant to CEQA Guideline section 15378.

#### BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

None

#### ATTACHMENTS

- Attachment 1 – City Council Resolution #RES-2017-177
- Attachment 2 - Board of Public Utilities Resolution #1142
- Attachment 3 – Standard 879 approved in September 2017 and Corrected Standard 888
- Attachment 4 – Standard 888 approved in September 2017 and Corrected Std. 879
- Attachment 5 – Corrected Master List of Water and Recycled Water System Standard Plans
- Attachment 6 – Redline Standard 875 and corrected Standard 875
- Attachment 7 - Redline corrections to Sewer Construction Standard Specifications
- Attachment 8 - Corrected version of Sewer Construction Standard Specifications

- Attachment 9 - Redline corrections to Water Construction Standard Specifications
- Attachment 10 – Corrected version of Water Construction Standard Specifications
- Attachment 11 - Corrected Sewage Peak Load Factor vs Population Graph
- Attachment 12 –Standard 875F – Residential Fire Line Below Ground Inline Dual Check Valve Backflow Device

## CONTACT

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