

# Documentation Workshop

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ENGINEERING REPORT

FOR

2012 BOND ISSUE

FOR

WASTEWATER AUTHORITY IMPROVEMENTS  
WATER AUTHORITY IMPROVEMENTS

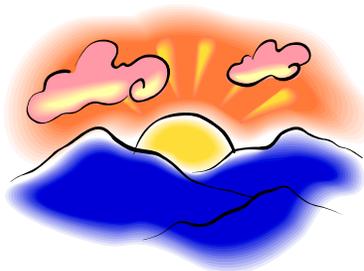
BY

TWIN PEAKS WATER AND SEWER AUTHORITY

November 2012

PREPARED BY

SUNSET CONSULTING



## Proposed Capital Improvements

### A. Description of Capital Improvements

The proposed capital improvements consist of six projects. These are: miscellaneous water main extensions along four roads in various parts of the town, a water pipeline along the proposed Leman Street Bypass Extension, a wastewater pipeline extension to the proposed hospital on Colonial Road, a water pipeline extension to the proposed hospital on Colonial Road, a raw water pipeline from the Twin Peaks Creek to the Clarks Bay Reservoir, improvements in conjunction with roadway improvements around the county, and replacement of polybutylene water services at locations around the county.

#### Miscellaneous Pipeline Extensions

The Miscellaneous Water Pipeline Extensions are 8-inch diameter pipelines (except as noted) to be installed in eleven streets to provide additional water capacity, pressure, or availability to various areas of the county. These locations are:

Location	Length (feet)
Sunrise Road	12,987
Main Street	4,296
First Street	17,100
Lakeview Road	2,020

#### Leman Street Bypass Extension Pipeline

The water pipeline extension installs a 12-inch pipeline southward along the proposed Leman Street Bypass from Elm Road to its intersection with US Highway 2.

#### Colonial Road Wastewater Pipeline Extension

The wastewater pipeline extension to Colonial Road installs a 12-inch diameter gravity flow wastewater pipeline from the WW Treatment Plant to this intersection, with a 6-inch diameter force main and pump station as a branch line to the north. The primary purpose of this extension is to serve a proposed hospital.

#### Colonial Road Water Pipeline Extension

The water pipeline extension to Colonial Road installs a 12-inch water pipeline in Poplar Road from the existing County pipeline at the entrance to Highway 12 intersection. The primary purpose of this extension is to serve a proposed hospital.

#### Twin Peaks River Pipeline

The Twin Peaks River water pipeline project constructs a water intake and a raw water pump station on the Twin Peaks River, and a 6 mile long 20-inch water pipeline to connect the Twin Peaks River to the Twin Peaks Reservoir located next to the water treatment plant. The purpose of this project is to divert water that Twin Peaks Water Authority has rights to use to the water treatment plant at that location.

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## Relocates

The bonds will finance construction and relocation of water and wastewater facilities in conjunction with roadway and intersection improvements that will be undertaken by the City, County, and DOT.

## Various Cast Iron Watermain Replacements

The bonds will finance replacement of old cast iron mains of various sizes throughout the city.

## **B. Estimated Cost of Improvements**

The following is an estimate of the costs associated with the projects to be financed by this bond issue. Costs include design/engineering, construction, and inspection.

<b>Project</b>	<b>Cost Estimate</b>
Miscellaneous Pipeline Extensions	\$1,886,517
Leman Street Bypass Extension Pipeline	\$1,214,654
Colonial Road Wastewater Pipeline Extension	\$1,985,850
Colonial Road Water Pipeline Extension	\$1,994,562
Twin Peaks Pond Pipeline	\$3,555,796
Relocates	\$1,400,000
Cast Iron Main Replacements	\$7,000,000