

PRELIMINARY OPINION OF PROBABLE PROJECT COSTS

Project ID#	CIP Budget Category	City Staff Evaluation as of	Total Project Cost
WTS008	Water Distribution	September 2016	\$2,336,580

Island Lake Pressure District Expansion - Phase 1

Sections 29, 30, 31, and 32



Project Description, Justification, & Operating Budget Impact

The Island Lake Pressure District (ILPD) expansion project has four key project components which will allow for the expansion of the ILPD into sections 29, 30, 31, and 32. The four main components of this project include: (1) Extension of a 12-inch water main along 10 Mile from Wixom to the stub at Woodham Road; (2) Installation of a new PRV at Ten Mile and Beck Road; (3) Installation of a new PRV at 9 Mile and Beck Road; (4) Pump upgrades at the Island Lake Booster Station. Over the past several years, residents sections 29, 30, 31, and 32 have complained of low pressure issues, especially during high usage periods when lawn sprinkling is occurring. Typically, system operators would increase the discharge pressure from the West Park Booster Station during these periods of pressure complaints; however, there is limited opportunity to boost pressures to the desired level in these sections as it would cause excessively high pressures within the lower elevation areas in the Intermediate Pressure District (along Novi Road north of 9 Mile and south of Grand River). For this reason, re-districting was proposed as part of the 2014 Water System Master Plan update.

Design Engineering	\$	106,880
Right-of-Way Acquisition	\$	75,000
Geotechnical Design	\$	41,108
Other	\$	-
TOTAL ENGINEERING	\$	222,988
Contingency	\$	44,598

Notes:

TOTAL ENGINEERING (including contingency) \$ 267,586

Construction	\$	1,644,302
Construction Engineering	\$	82,216
Crew Days	\$	31,500
Material Testing	\$	41,108
Other	\$	-
TOTAL CONSTRUCTION	\$	1,799,126
Contingency	\$	269,869

Notes:

TOTAL CONSTRUCTION (including contingency) \$ 2,068,995

BUDGET DETERMINATION BASED ON YEAR AWARDED

Budget Determination excludes **TOTAL ENGINEERING (including contingency)** if completed in prior fiscal year

2018-19	\$2,336,580	2023-24	\$2,708,737
2019-20	\$2,406,678	2024-25	\$2,789,999
2020-21	\$2,478,878	2025-26	\$2,873,699
2021-22	\$2,553,244	2026-27	\$2,959,910
2022-23	\$2,629,841	2027-28	\$3,048,707

Engineering Completed in Prior Fiscal Year?

No

Funding Source?

592 - Water Sewer Fund

Outside Funding?

No