



8 March 2021
 To: Mayor and City Council members
 Design of water system improvements in titled neighborhood moving forward in communication with residents. Clay

Water Quality Program I & II – Oakbrook & Oakbrook Estates

Is It In Budget?		Is It On Schedule?		Community Benefit
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Improved Water Quality
Project Phase?				
Engineering/Design				

Highlights:

- As discussed in prior memos, the project is behind schedule due to the necessary changes to route the line within the right-of-way resulting from the lack of dedicated easements existing in the development. Identification of auspicious locations to loop the waterlines and preparation of the necessary easement exhibits have extended the duration of the design phase.
- Staff attended meetings with both the Oakbrook & Oakbrook Estates Homeowner Association (HOA) boards to introduce the project scope, the design and construction schedules, the need for easements in some locations and to explain the benefits of these improvements for the community.
- ARKK Engineers provided an overall map of the 18 locations where easements will be used to loop existing dead-end lines. The map details the 10 existing utility easements and the proposed 8 which are to be dedicated by the HOA or acquired through friendly condemnation.
- To maintain the project schedule, Staff intends to acquire right-of-entry agreements while the acquisition is being finalized. This process will coincide with the construction phase.
- Consultant is completing plan and profile drawings by finalizing coordination efforts with utilities and pipelines that are identified as critical crossings.
- The 90% design documents, which include technical specifications, drawings and an updated construction cost estimate, were received by staff on March 5, 2021. A review meeting is scheduled for late March to provide comments to consultant for incorporation in the 100% design.

Budget Info:

OakBrook Ph. I:

Funding Sources	Series	To Date	Future	Total Budget
System Revenue - Cash		427,000		427,000
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		427,000	-	427,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	46,250		46,250



Construction		350,600	350,600
Construction Management/Inspection			-
Construction Materials Testing		15,000	15,000
FF&E			-
Total Expenditures	46,250	365,600	411,850
Project Balance/Contingency			15,150

OakBrook Ph. II:

Funding Sources	Series	To Date	Future	Total Budget
System Revenue - Cash		837,000		837,000
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		837,000	-	837,000

Expenditures	To Date	Future	Total
PER			-
Land		18,500	18,500
Design	99,200		99,200
Construction		669,360	669,360
Construction Management/Inspection			-
Construction Materials Testing		20,000	20,000
FF&E			-
Total Expenditures	99,200	707,860	807,060

Project Balance/Contingency	29,940
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Schedule Info:

	Base Line	Current
<i>Design Start Phase I</i>	July-19	July-19
<i>Design Start Phase II</i>	June-20	September-20
Bid Start	December-20	April-21
Construction Start	June-21	
Proposed Construction Completion	December-21	

Upcoming Work Items:

- The 100% design documents are scheduled to be submitted for Staff review early April. A meeting of the Technical Review Committee (TRC) is planned in mid-April.
- Bid phase begin: May 2021
- Construction phase: July 2021 – December 2021



Project Manager: Morgan R Early

Designer: ARKK Engineers

Contractor: N/A

Scope: As part of the city's multi-year program, the project will address water quality issues related to the age of the water in the system. The objective is to improve circulation of water within the Oakbrook subdivision by looping the dead-end water lines where possible with the added benefit of reducing the need to flush water lines, reducing system water loss. Streets included in Phase 1 are: Oak Lane Circle, Oak Cluster Circle, Oak Gate Circle, Oakbrook Circle, Oak Fork Circle, Oak Tree Circle, Oak Shire Drive, Castle Oaks Drive, Barretts Glen Drive, and Oak Lodge Drive. Streets included in Phase 2 are: Oak Bend Drive, Branch Hill Drive, Oak Lodge Drive, Scarlet Oak Drive, Oak Top Drive, East Baden Oaks Drive, Dixie Hill Court, Oak Point Court, Bracket Drive, Oak Leaf Circle, Oak Land Circle, Oak Point Drive, Pin Oak Drive N, Oak Place Court, Oak Trace Court, Oak Chase Court, Oak Bark Court, Majestic Oaks Court, and Winding Forest Drive. Although design was divided into two phases, based on a relative order of priority, the construction will be carried out in a single phase to limit impact to customers as much as possible.

Justification: As the water system continues to grow, opportunities are developed to continue the extension of water lines to connect and loop existing dead-end lines. By extending waterlines to connect to other parts of the system, and removing dead end waterlines, this will assist in enhancing water quality by circulating water, reducing staff time used to flush waterlines and by reducing system water loss.

Previous Memos: 05/30/19, 08/20/20, 01/07/21

VICINITY MAP



Water Quality - Oakbrook & Oakbrook Estates



1:12,000
1 inch = 1,000 feet

NORTH
This product is for informational purposes only and may not be prepared or be suitable for legal, engineering, or surveying purposes.

MAP PREPARED: MAY 28, 2015