

30 July 2020

To: Mayor and City Council members

Design progressing, now taking into consideration additional improvements that will add safety and flow for the expanded UHCL campus, in addition to the other benefits. Clay

Note: Schedule updated August 12, 2020



Pearland Parkway Traffic Circle Modifications

Scope: The project scope consists of the design and improvements to the existing rotary traffic circle at the intersection of Pearland Parkway and McHard to provide a more conventional geometry with a two-lane roundabout with an outside by-pass lane designed for higher speeds for the right turn movements. The project will also include the installation of sidewalks to connect existing gaps identified along the route and provide pedestrian connectivity.



Justification: Reconfiguration of the traffic rotary will improve traffic flows by providing for higher speed by-pass movements that result in a right exiting movement and reduce conflicts resulting from the existing two-lane configuration. Reducing the traffic circle diameter by constructing a roundabout per Federal Highway Administration (FHWA) roundabout design criteria will provide the traffic calming effect needed to improve intersection safety.

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Project Manager: Fatema Weekly

Designer: Alliance Transportation Group, Inc.

Contractor: N/A

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds	TBS 2020	3,272,000		3,272,000
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		3,272,000	-	3,272,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	389,404		389,404
Construction		2,720,400	2,720,400
Construction Management/Inspection			-
Construction Materials Testing		85,000	85,000
FF&E			-
Total Expenditures	389,404	2,805,400	3,194,804

Project Balance/Contingency	77,196
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Schedule Info:

	Base Line	Current
Design Start	July-19	July-19
Bid Start	January-20	October-20
Construction Start	January-21	
Proposed Construction Completion	July-22	

Rain Days: N/A

Highlights:

- Staff received 90% design documents June 15, 2020 for internal review and comment. Staff is working with the designer to resolve traffic speed of merging issues and minor ponding/drainage issues and have provided direction for both.
- Discussions with U of H officials uncovered complaints regarding difficulties for traffic exiting the campus to enter the Pearland Parkway lanes. To address the issue, an acceleration lane has been added along and we are working with U of H to relocate their exist driveway. This combination will allow exiting traffic to safely merge onto Pearland Parkway lanes in advance of the round about lanes or to exit to the McHard by-pass lane. The coordination with U of H to accommodate the campus traffic and include the acceleration lane design will push the schedule for bidding the project.
- The addition of this acceleration lane for traffic exiting the U of H Campus has resulted in the design needing to accommodate additional utility conflicts. Staff along with the design engineer are working with all utility providers to provide necessary remedies.
- Staff is working with the design engineer to extend the proposed 6' sidewalk on the north and west sides of the roundabout an extra 4' to achieve a desired 10' multi-use path. Increasing the width of the sidewalk aligns with the recently developed multi-modal plan and current HGAC funded Clear Creek trail that brings a proposed 10' sidewalk to the U of H campus from Clear Creek. Staff is working to ensure enough right-of-way and easements will accommodate needs of the project.
- Staff is working with the City's Urban Forester to determine current and future disposition of existing trees with the goal of retaining as many as possible and relocating several trees to other locations.
- Current Engineer's opinion of probable costs (OPC) is \$2,720,400 which exceeds the construction budget by \$360,400. The project budget contains a contingency that will cover this overrun, the purpose of the budgeted contingency, should the bids come in at or below the OPC, leaving a balance of \$160,000 for materials testing, street light relocations and other contingencies. The additional costs are attributable to the addition of the acceleration lane for U of H traffic. Staff plans to proceed with the current design that will include the acceleration lane and driveway relocation for U of H and will assess the projects next steps upon receipt of contractor bids during the bid phase of the project.

Upcoming Work Items:

- Design Engineer to finalize and submit 100% plans, specifications and construction cost estimate.
- Coordination to continue with CenterPoint Energy regarding movement of existing illumination poles for proposed improvements.

- Staff to work with the City's Urban Forrester to finalize the tree transplant list and determine the probability of relocating vs. removal of identified trees.
- Staff will continue to provide project information to the local Community Managers for distribution to area residents to provide project updates. Further project information will be made available through existing communication channels as the project approaches construction start.
- Schedule the required project Technical Review Committee (TRC) to review final project plans by the City Engineer.

Previous Memos: 6/20/19, 11/27/19, 2/27/20

Vicinity Map

