

12/22/2021

To: Mayor and City Council members

Progress report on multiple traffic improvements. Signals at Pearland Pkwy & Forest Park and Broadway & Winward Bay wrapping up along with multiple additional turn lanes. Pearland Pkwy traffic circle moving into next phase that will require many traffic control plan changes. All on budget and schedule.

-Trent



Pearland Parkway Traffic Improvements

Pearland Parkway Traffic Circle Modifications

Intersection Improvements-Winward Bay at Broadway

Is it in Budget?		Is it on Schedule for the Current Phase per the Contract?		Community Benefit
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Sound Infrastructure
Project Phase? Construction				

Highlights:

This report provides progress information on three projects that were bid together to produce economies of scale. A single contractor is performing all the work at all three project locations.

Pearland Parkway Traffic Improvements (Traffic Signal at Forest Park Lane)

- The turn lanes have been completed and opened as they were finalized. The opening of the left turn bays has been done to minimize the impact to the citizens of Pearland.
- The traffic signal bases at Forest Park have been poured.
- This project will be completed on-time and under budget.

Pearland Parkway Traffic Circle Modifications:

- The entrance to the UHCH Pearland Campus has been poured, sealed and opened for use. The adjoining acceleration lane to the southeast is been started.
- The electrical conduit for the traffic circle has been installed and inspected by CenterPoint and the light poles have been relocated.
- All road expansions leading to the central portion of the roundabout have been poured, and the medians are being raised to the proper elevations.
- The central portion of the roundabout has been poured.
- The relocation of all the trees has been completed. The relocation has been very hard on many of the trees involved and has resulted in adverse impacts. The replacement of those trees that did not recover from the shock of the transplantation are currently being resolved by the contractor. Staff is working with Urban Forestry on the resolution of this unfortunate circumstance.

Intersection Improvements-Winward Bay at Broadway, Pearland Parkway at Oakridge Drive, & Dixie Farm Road near Long Oak Drive

- The traffic signal bases have been poured and the traffic signal poles and mast arms have been installed at Winward Bay. The traffic box, wiring and signal heads remain to be installed.
- All major lane construction components of the Broadway and Winward Bay improvements have been completed. This includes the installation of the left turn bays and associated concrete work. The intersection is open to utilize the left turn bays to help traffic have safe refuge make a left turn.
- The two left turn bays located at Pearland Parkway and Oakridge Drive and at Dixie Farm Road near Long Oak Drive have been completed and open.



- The additional hooded left turn added at Long Oak Drive was added to this project and has been completed and open.
- The substantial completion walk through is currently being scheduled. This project will be completed on schedule and under budget.

Budget Info:

Pearland Parkway Traffic Improvements

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds	2020 PIB	974,000		974,000
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Other Funding Sources				-
Total Funding Sources		974,000	-	974,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	128,006		128,006
Construction	627,156		627,156
Construction Management/Inspection			-
Construction Materials Testing	20,288		20,288
FF&E			-
Total Expenditures	775,451	-	775,451

Project Contingency	13%		124,000
Project Balance			74,549

Pearland Parkway Traffic Circle Modification

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation				-
Certificates of Obligation				-
General Obligation Bonds	2020	1,272,000		1,272,000
General Obligation Bonds	2021	1,000,000		1,000,000
General Obligation Bonds	TBS 2022	1,000,000		1,000,000
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	2,725,942		2,725,942
Construction Management/Inspection			-
Construction Materials Testing	83,125		83,125
FF&E			-
Total Expenditures	3,198,471	-	3,198,471

Project Contingency	2%	73,529
Project Balance		0

Intersection Improvements-Winward Bay at Broadway

Funding Sources	Series	To Date	Future	Total Budget
General Revenue - Cash				-
Certificates of Obligation	2018	755,001		755,001
Certificates of Obligation	2020A	-		-
Certificates of Obligation				-
General Obligation Bonds				-
General Obligation Bonds				-
W/S Revenue Bonds				-
Impact Fee - Debt				-
Fund Balance - Fund 501 balance		220,000		220,000
Total Funding Sources		975,001	-	975,001

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	127,206		127,206
Construction	801,520		801,520
Construction Management/Inspection			-
Construction Materials Testing	21,183		21,183
FF&E			-
Total Expenditures	949,909	-	949,909

Project Contingency	3%	25,092
Project Balance		0



Schedule Info:

Pearland Parkway Traffic Improvements

	Base Line	Current
Design Start	July-19	July-19
Bid Start	December-19	October-20
Construction Start	January-21	March-21
Construction Completion	December-21	

Pearland Parkway Traffic Circle Modification

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

Intersection Improvements-Winward Bay at Broadway

	Base Line	Current
Design Start	July-18	September-18
Bid Start	March-19	October-20
Construction Start	January-21	March-21
Construction Completion	December-21	

Upcoming Work Items:

- The traffic signal lights will be installed on the masts at Windward Bay.
- Substantial completion walk throughs will take place on the Intersection Improvements at the Broadway-Windward Bay.
- The traffic signal poles will be installed at Forest Park.
- The Pearland Parkway Traffic Improvements substantial completion walk through will take place in December.
- The Traffic circle pavement will continue to be poured and will move into the next phase of the project by connecting the circle to inbound and outbound traffic lanes. Staff will be meeting with the contractor to review the Traffic Control Plan, phasing of pours and schedule. City Communications will be part of these discussions to develop a communication plan to notify the public of the upcoming activities and lane closures.

Project Manager: Fatema Weekly

Construction Manager: Michael Collins

Designer: Alliance Transportation Group / Kimley Horn

Contractor: Teamwork Construction



Scope:

The Pearland Parkway Traffic Improvements: project consists of the installation of a traffic signal at the intersection of Pearland Parkway and Forrest Park Lane/Summit Springs Lane. Directional pedestrian ramps will be included along with two left turn bays.

Pearland Parkway Traffic Circle Modification: is a reconfiguration of the existing rotary traffic to a roundabout. After construction, higher speed traffic flow will be managed by an outside turning lane designed for higher-speed right turn movements.

Intersection Improvements-Winward Bay at Broadway: The project will provide the installation of a traffic signal located at the intersection of Winward Bay and Broadway.

Justification:

The Pearland Parkway Traffic Circle Modification project is designed to improve the existing rotary traffic circle at the int Accident reports dating back to 2013 indicated the need for the reduction of uncontrolled left turn movements along the entire corridor. The installation of a signal at this complex intersection will reduce the incidence of unprotected left turn movements and consequently reduce the number of conflicting left turn movements. Alliance Transportation Group was selected through the City's Qualification Based selection process based on their familiarity with Pearland Parkway traffic issues and historic consultation on potential solutions and the proximity of this signal installation to the modifications to the traffic circle. Council approved the design contract for Alliance Transportation Group in July 2019 and the plans and specifications (bid documents) were completed in October 2020. The project was advertised and bid in November this year in conjunction with the above and below two projects as a means of gaining economies of scale. In addition, this allows for the contractor to manage both projects eliminating the need for additional outside coordination.

Accident reports dating back to 2013 indicated the need for the reduction of uncontrolled left turn movements along the entire corridor. These modifications provide the reduction of unprotected left turn movements and will reduce the number of entering left turns. The Pearland Parkway Traffic Improvements consists of the installation of traffic signals and improvements at the intersection of Pearland Parkway and Forest Park Lane/Summit Springs Lane. Directional pedestrian ramps and cross walks across Pearland Parkway will be included. Left turn bays on the minor street approaches will be striped.

During the speed study that was conducted along Broadway, an analysis of vehicular crash data was reviewed at the intersection. In addition, a traffic signal study was conducted. It was determined that a signal was warranted at Winward Bay to assist in providing safe vehicular movement.

Previous Memos:

Pearland Parkway Traffic Improvements- 10.31.19, 1.23.20, 5.27.21

Pearland Parkway Traffic Circle Modifications- 11.27.19, 7.30.20, 2.20.20, 1.07.21, 5.27.21

Intersection Improvements-Winward Bay at Broadway: 08.39.18, 11.07.19, 1.30.20, 5.27.21



Project Location Maps:

Pearland Parkway Traffic Improvements

VICINITY MAP



● Addition of Traffic Signals and Improvement of Left Turn Lanes



1:1,200
1 inch = 100 feet



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MAP PREPARED: DECEMBER 2, 2007



Pearland Parkway Traffic Circle Modifications





Intersection Improvements Windward Bay/Pearland Parkway/Dixie Farm

VICINITY MAP



- Addition of Traffic Signals and Improvement of Left Turn Lanes



1:1,200
1 inch = 100 feet



NORTH
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MAP PREPARED: DECEMBER 2, 2001



Intersection Improvements Windward Bay/Pearland Parkway/Dixie Farm

VICINITY MAP



● Addition of Left Turn Lane



1:1,200
1 inch = 100 feet



NORTH
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MAP PREPARED: DECEMBER 2, 2001



Intersection Improvements Windward Bay/Pearland Parkway/Dixie Farm

VICINITY MAP



- Addition of Left Turn Lane and Hooded Left Turn Lane



1:2,400
1 inch = 200 feet



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MAP PREPARED: DECEMBER 2, 2021



Project Photos:



Central Roundabout Has Been Poured



Trees have been Relocated



Northern Roundabout Entrance and Exit Have Been Poured



Storm Sewer Inlets Have Been Installed



Manholes Have Been Set in Place



Grading in Medians is Being Brought to Proper Elevation



Traffic Signal Bases have been Poured at Forest Park and Pearland Parkway



Traffic Signal Masts have been Installed at Windward Bay and Broadway