



1 September 2022
 To: Mayor and City Council members
 Update on the big McHard Road extension to give continuous four lanes from Pearland Parkway westward beyond city limits. Although total project completion will go into February, tracking for opening road in both directions to traffic in December. Clay

McHard Road Extension (Mykawa to Cullen)

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		<i>Improves mobility by providing an additional east west corridor as an alternative to Broadway (FM 518)</i>
Project Phase					
Construction					

Highlights:

- Drainage system installation.
 - The entire drainage system is approximately 95% complete.
 - Three residential sanitary sewer lines must be relocated, and a sanitary sewer manhole must be adjusted before the drainage system along Hatfield can be completed.
 - City staff has coordinated with a plumber to relocate the lines and the work is scheduled to be complete by the end of August.
 - Hickory Slough Detention Pond 1 (HS1) is complete.
 - A Brazoria Drainage District 4 (BDD4) Construction Inspector met with field personnel at the Hickory Slough Detention Pond 2 (HS2) on July 14, 2022.
 - The BDD4 inspector routinely inspects construction on the district's infrastructure.
 - During this inspection, it was determined that the existing plans, approved by BDD4 does not include the correct slope detail for the overflow weir. The plans call for a 4:1 slope, but the maintenance requirement is 6:1.
 - The project team is working with BDD4 to resolve this oversight in the most economical way.
 - During the field meeting, BDD4 advised that since they will complete the work on the regional detention within the next six months, there is no need for this project to install the back slope interceptor or riprap because the BDD4 project will remove them to complete their work.
- Paving.

- **The current project schedule has McHard Road opening to traffic in both directions by mid- December.**
 - Signs and pavement markings will have to be completely installed before roadway opening.
 - Work in the medians and right of way restoration will continue after road opening.
- Main lane concrete paving is 100% complete.
- Sidewalk paving is ongoing.



- Sidewalks have been installed between Max Rd. and Mykawa Rd.
- Sidewalks between Cullen and Roy have been prepped with fine grading and subbase.
- Driveways have been poured between Cullen and Stone Rd.
- Side street work is approximately 50% complete.
- Changed traffic direction on Garden Rd. and Max Rd.
- The fiber optics subcontractor has completed approximately 80% of the conduit installation within the project limits.
- **The irrigation sub-contractor is adding a second crew to expedite the installation schedule.**
- Ongoing work includes:
 - Sidewalks installed between Cullen and Max Rd.
 - **Contractor expedited the schedule to have Garden Rd. and Max Rd. open completely before the start of the school year.**
 - **Both roads opened on August 16th.**
 - Work at Roy Rd. and Hatfield Rd. intersections will begin in September.
- **The contractor has been granted 35 additional contract days for extra work required to install the drainage system due to utility conflicts impacting the critical path.**
 - The project is tracking delays that are due to the materials shortage to determine the impact on the critical path.

Challenges:

- Continued coordination between the City of Pearland Traffic Operations Division and the contractor for bringing the traffic signals on-line.
- Continued coordination with BDD4.
- **Continued challenges with the availability of concrete and cement stabilized sand.**

Budget Info:

Funding Sources	Series	To Date	Future	Total Budget
Certificates of Obligation	2022A	3,468,428		3,468,428
General Obligation Bonds	2014	531,488		531,488
General Obligation Bonds	2015	238,566		238,566
General Obligation Bonds	2016A	222,627		222,627
General Obligation Bonds	2017	1,725,637		1,725,637
General Obligation Bonds	2020	7,850,000		7,850,000
General Revenue - Cash				-
HGAC TIP		32,380,531		32,380,531
Other Funding Sources - (Old Alvin 2017)		1,016,382		1,016,382
Other Funding Sources - Fund 506 Balance		413,341		413,341
Total Funding Sources		47,847,000	-	47,847,000

Expenditures	To Date	Future	Total
PER			-
Land	6,671,451	478,549	7,150,000
Design	4,545,300	90,000	4,635,300



Construction Contract	30,361,477	2,120,000	32,481,477
Construction Management/Inspection	2,480,193		2,480,193
Construction Materials Testing	425,289	20,000	445,289
FF&E			-
Total Expenditures	44,483,710	2,708,549	47,192,260

Project Contingency	1%	654,740
Project Balance		0

Project balance includes TIP funds associated with the project.

Schedule Info:

	<i>Base Line</i>	<i>Current</i>
<i>Design Start</i>	August-14	August-14
<i>Bid Start</i>	April-17	January-20
<i>Construction Start</i>	June-20	September-20
<i>Construction Completion</i>	September-22	February-23

Upcoming Work Items:

- The contractor will continue paving at the intersections.
- The subcontractor will continue installing the irrigation system.
- The contractor will continue installing the sidewalk.
- Two future projects that are funded by the overall McHard Road Extension project.
 - A new Fiber Optics project for the installation of fiber outside of the McHard Road Extension project limits.
 - The fiber project will tie-on to the east and west terminus of fiber that is being installed as part of the McHard Road project.
 - The fiber project will install approximately 17,600 LF of conduit and cable from west of SH 288 to Cullen Blvd. along McHard Road including a tie-in to the Westside Event Center on Country Place Pkwy. and from the intersection of McHard Road and Mykawa Road to SH 35.
 - A McHard Road at Cullen Blvd. Intersection Improvements Feasibility Study for northbound dual left turn lanes.
 - The scope of the project is an alternative roadway geometric study to possibly add a second northbound lane from eastbound McHard Road.

Project Manager: Jennifer Lee

Designer: Freese and Nichols, Inc.

Contractor: James Construction Group

Construction Manager: HDR, Inc.

Scope:

The McHard Road project will extend from the intersection of Mykawa and McHard Rd. west to tie into the existing roadway at Cullen Blvd. It will include the construction of approximately 3.5 miles of four lane divided concrete curb and gutter roadway with signalized intersections (Max Rd., Roy Rd., O’Day Rd., Garden Rd., and Hatfield Rd.). Also included in the road design is grading, paving, mixed use sidewalks, drainage, detention ponds, signage, pavement markings, illumination, traffic control, storm water pollution prevention and landscaping/irrigation.



Justification:

The project is in accordance with the City's Thoroughfare Plan to alleviate traffic on FM 518 by providing an alternate east/west route between SH 288 and SH 35. The project was selected by H-GAC to receive 80% federal funding for design and construction through the 2016 TIP.

Previous Memos: 04.01.2015, 07.15.2015, 10.14.2015, 02.04.2016, 10.06.2016, 01.26.2017, 05.04.2017, 09.07.2017, 05.31.2018, 01.24.2019, 09.26.2019, 06.04.2020, 11.19.2020, 02.04.2021, 04.15.2021, 06.24.21, 9.30.21, 03.03.22, 06.02.22

Project Location Map:





Project Photos:



42" Outfall Pipe and channel at HS2 Detention Pond.



Sidewalk installation near Max Rd.



Early morning sidewalk pour east of Stone Rd.



Asphalt Paving at Garden Rd.-southbound Lane.



Asphalt paving on Stone Rd.



Asphalt paving at O'Day Rd., looking south.