

5/21/2020

To: Mayor and City Council members

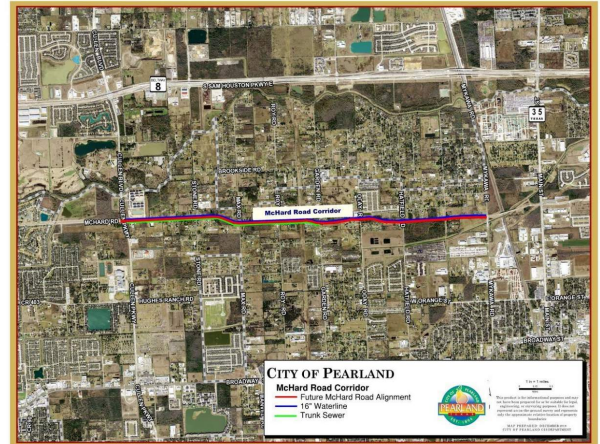
Update on the water and waste water major lines nearly complete in advance of the McHard roadway itself that will start later this summer. Clay



McHard Road Trunk Sewer (Garden to Southdown)

McHard Road Waterline Ph II (Cullen Pkwy to Mykawa Rd)

Scope: (Trunk Sewer) Install, along McHard Rd, approximately 4,500 feet of 24" trunk sewer from Cullen to Southdown Wastewater Reclamation Facility (completed by Developer Agreement with Lake Park Subdivision); **Phase 2** includes 5, 800 feet of 18" trunk sewer from Cullen to Max Road; and approximately 4,000 LF of 15" trunk sewer from Max Road to Garden Road. **(Phase 2 Waterline)** Phase II of the distribution line extends from Cullen Parkway to Mykawa Road a total of approximately 17,500 linear feet. This portion of the project is timed to coincide with Right of Way approval and acquisition for the McHard Road project.



Justification: (Trunk Sewer) This project will provide gravity sewer from Southdown WRF to Garden Road with limited extensions north and south along Max Road, Roy Road and Garden Road as detailed in the wastewater master plan. Extends Southdown service area to the east, picking up areas not currently served by City system. **(Phase 2 Water Line)** This will be the second segment completing the transmission connection between the east and west sides of the City. It will allow for more efficient water flow, better fire protection and the movement of water from the expanded Alice Street Water Plant.

Project Manager: Jennifer Lee

Designer: Freese and Nichols, Inc

Contractor: Reddico Construction Co., Inc

Budget Info:

McHard Trunk Sewer:

Funding Sources	Series	To Date	Future	Total Budget
System Revenue - Cash		618,390		618,390
W/S Revenue Bonds	2014	225,745		225,745
W/S Revenue Bonds	2016A	558,500		558,500
W/S Revenue Bonds	2017C	1,164,750		1,164,750
W/S Revenue Bonds				-
Impact Fee - Debt	2016A	558,500		558,500
Impact Fee - Debt	2017C	1,164,750		1,164,750
Impact Fee - Debt				-
Other Funding Sources		809,365		809,365
Total Funding Sources		5,100,000	-	5,100,000

Expenditures	To Date	Future	Total
PER			-

Land	92,097		92,097
Design	220,480		220,480
Construction	4,066,520		4,066,520
Construction Management/Inspection			-
Construction Materials Testing	73,520		73,520
FF&E			-
Total Expenditures	4,452,617	-	4,452,617

Project Balance/Contingency	647,383
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McHard Waterline:

Funding Sources	Series	To Date	Future	Total Budget
Certificates of Obligation				-
Certificates of Obligation				-
W/S Revenue Bonds				-
W/S Revenue Bonds	2017C	1,468,240		1,468,240
System Fund - Cash				-
Impact Fee - Cash				-
Impact Fee - Debt	2017C	1,368,240		1,368,240
Other Funding Sources		99,520		99,520
Total Funding Sources		2,936,000	-	2,936,000

Expenditures	To Date	Future	Total
PER			-
Land			-
Design	115,346		115,346
Construction	2,327,341	40,000	2,367,341
Construction Management/Inspection			-
Construction Materials Testing	55,235		55,235
FF&E			-
Total Expenditures	2,497,922	40,000	2,537,922

Project Balance/Contingency	398,078
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Schedule Info:

	Base Line	Current
Design Start	February-17	April-17
Bid Start	December-17	April-19
Construction Start	July-19	August-19
Proposed Construction Completion	August-20	

Rain Days: 12

Highlights:

Since the last project update the contractor, Reddico Construction Co, has completed the following on Phase 2 of both the Water line and Trunk Sewer:

General

- The contractor's scope was amended to include the demolition/removal of twenty existing structures within the McHard Road Right of Way. These consist of properties purchased within the road right of way but had to be removed to install one or both utilities. The properties included houses, barns, well houses and storage sheds. All had to be checked for asbestos, abated if found and then demolished
- To date, 16 of the 20 structures have been removed.
- The remaining structures contain asbestos and are awaiting abatement before demolition.
- The McHard Road right of way has been graded and cleared of trees, structures and debris.

Trunk Sewer

- Completed the installation of the trunk sewer line from Cullen to Max Road.
- Completed the interior coating on nearly 90% of the sanitary manholes.
- Completed the line (pressure) & manhole (vacuum) testing of the trunk sewer.
- Completed 90% of the mandrel testing of the sewer line.

Phase 2 Water line

- Constructed and tested approximately 93% of 16" water line through the McHard Corridor.
 - The remaining segments to be installed are under the wetland area requiring an Individual Permit. Staff were originally told the project met the requirements for a Nationwide 14 Permit (for transportation projects) That application was submitted to the US Army Corp of Engineers. (USACE) in September 2016.
 - In 2018 USACE informed the City that the project would require an Individual Permit. Staff responded with a plan to purchase portions of the required mitigation area from a local mitigation bank and create the balance on land owned by the City north of Clear Creek.
 - Staff and environmental consultants have addressed three rounds of comments from the USACE, the latest was May 8, 2020. USACE continues to require additional information and clarification.
- The contractor has been instructed to bore under the wetlands to avoid further delay in completing this project. This installation methodology will allow the contractor to complete the water line but the Individual Permit issue remains an outstanding issue for the roadway construction that Staff is continuing to pursue.

Upcoming Work Items:

General

- A Change Order is being prepared to add the installation of 12-inch waterline off-sets and one force main on existing lines at the Garden Road, O'Day Road, and Hatfield Road that will be in conflict

of the McHard Road storm sewer once that project gets underway. The conflicts were identified in the McHard Road project and since TxDOT doesn't participate in cost sharing on utilities, staff is taking advantage of unit prices of this contractor that is currently mobilized. Staff is currently working through the scope of this additional effort. The contractor elected to bore a greater percentage of the original work, so there are some line item underruns that will be used to reduce the total amount of this change order.

- Asbestos abatement and demo of the remaining structures should be complete by May 30.

Phase 2 Water Line

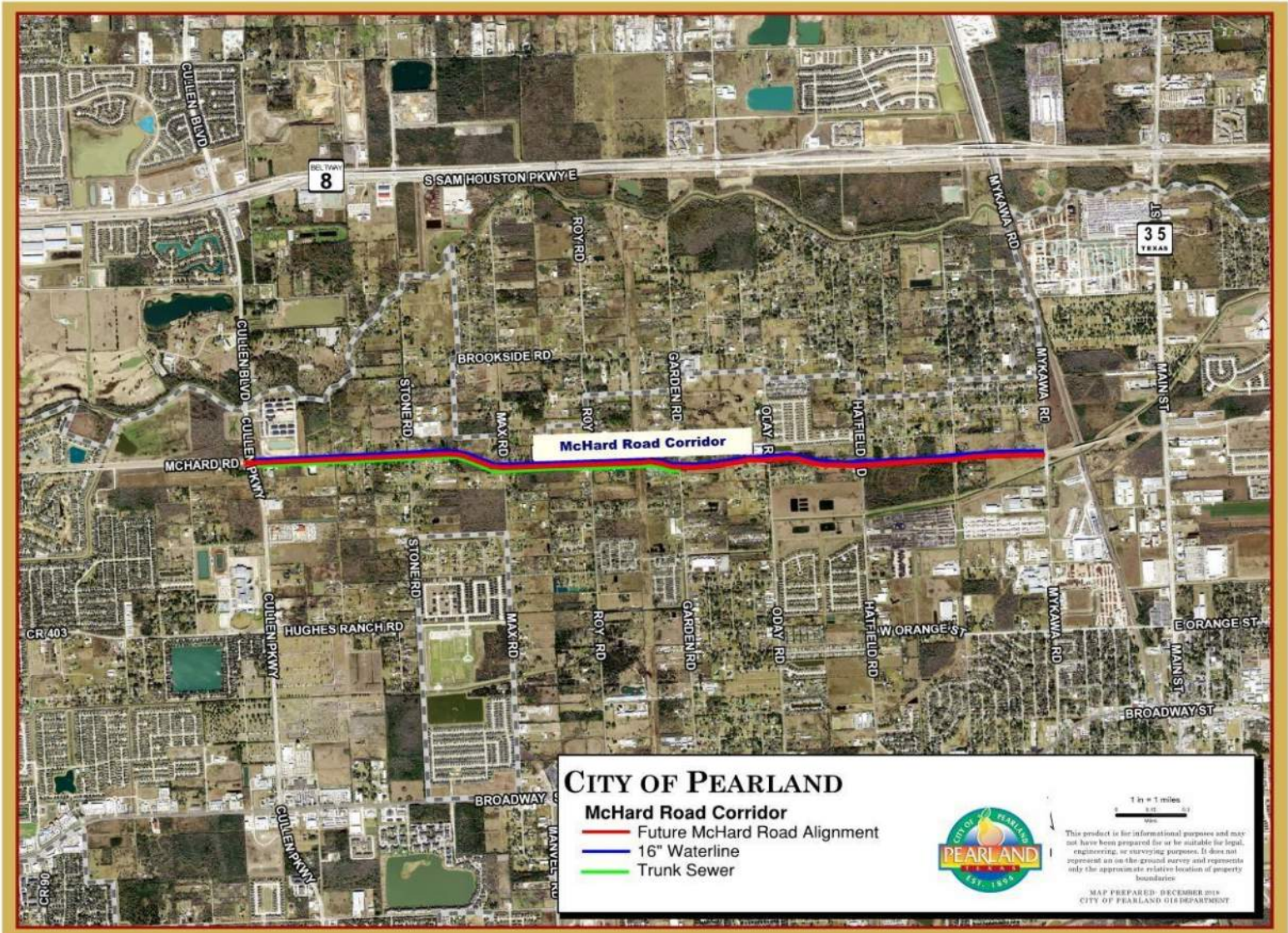
- The contractor began performing chlorination on the water line from Cullen to Stone in preparation for bacteriological testing. This work will continue for the next several weeks.

Trunk Sewer

- The contractor will complete the mandrel testing and manhole coating within the next two weeks.
- Schedule final inspections.

Previous Memos: 06/06/19; 11/27/19, 01/30/20

Project Location Map:





Pilot Head for 16" Directional Bore



Flusing the 16" Water Line



Site Cleanup



View looking down the cleared McHard Road corridor



View looking down the cleared McHard Road corridor