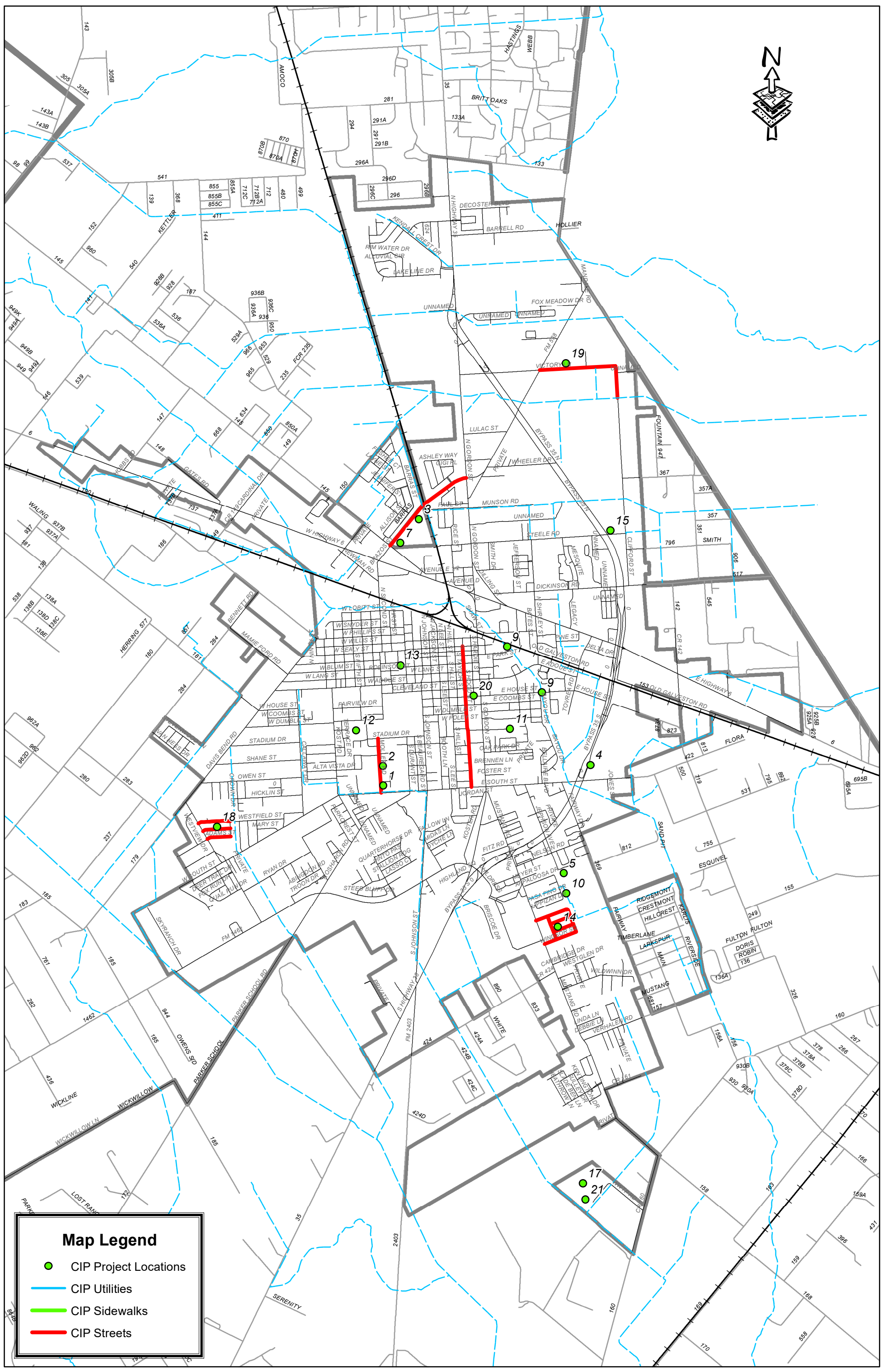
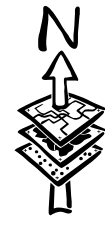


**Capital Improvement Program  
Quarterly Report  
February 2022**





**Map Legend**

- CIP Project Locations
- CIP Utilities
- CIP Sidewalks
- CIP Streets



# FY 2022 CIP Project Location Map

Rev. Date 1/27/2022  
Engineering Dept.  
X:/Projects/City Engineer/CIP Projects/Maps



FY 2022 Capital Improvement Program Project Schedule - February 2022

PROJECTS:	10/15/21	10/31/21	11/15/21	11/30/21	12/15/21	12/31/21	1/15/22	1/31/22	2/15/22	2/29/2022	3/15/22	3/31/22	4/15/22	4/30/22	5/15/22	5/31/22	6/15/22	6/30/22	7/15/22	7/31/22	8/15/22	8/31/22	9/15/22	9/30/22
1. Moller Road Storm Sewer and Pavement Phase 1	Construction																							
2. Moller Road Storm Sewer and Pavement Phase 2	Design																							
3. FM 528 Extension	Design																							
4. Lift Station 30 Expansion & Hwy. 35 Gravity Mains	Construction																							
5. 54" Eastside Interceptor	Construction																							
6. Northwest/Northeast Basin Sewer Rehab. Project	Construction																							
7. Water Plant #6 Tank Replacement Remaining Work	Bid								Construction															
8. Wayfinding Signs Project	Design										Bid		Construction											
9. Mustang Bayou Bank Repair	Bid								Construction															
10. Hike and Bike Trail Phase III	Design																							
11. Waterline Improvements Phase 3	Design													Bid		Construction								
12. Waterline Improvements Phase 4																	Design							
13. Water Plant #4 Tank Replacement	Design																							
14. 2021 Asphalt Pavement Project	Bid								Construction															
15. Lift Station 23 Expansion	Design																							
16. 2021 Wastewater Master Plan Update/Rate Study	Design																							
17. WWTP Facility Plan	Design																							
18. 2021 Concrete Pavement and Drainage Project	Design										Bid		Construction											
19. 2022 Asphalt Pavement Project											Design						Bid		Construction					
20. 2022 Concrete Pavement and Drainage Project																Design				Bid				
21. WWTP Critical Improvements												Design												



## Moller Road Storm Sewer and Pavement Improvements Phase 1

Project Number:	1
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund / Bond Funds
Assigned:	City Engineer
Project Location:	Moller Road near South Street. Project location identified as number 1 on the CIP project location map.
Project Description:	This project includes the design of the first of a three phase project to add a storm sewer system, concrete curb and gutter pavement, and sidewalk along Moller Road. This is the third of several drainage improvement projects that were recommended in the M-1 Ditch Watershed Study that was completed in January 2011 by Dannenbaum Engineering.
Project Justification:	To improve drainage in the M-1 Ditch Watershed by adding a storm sewer system along Moller Road.
Current Status:	Triple B Services started construction of this 410 calendar day project on October 20, 2021.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30+ years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$250,000	\$249,932	\$250,000	2018	
<u>CONSTRUCTION</u>	\$1,803,659	\$1,292,299	\$1,800,000	2019	Bond
<u>GEO. STUDY</u>					
<u>TOTAL:</u>	\$2,053,659	\$1,542,231	\$2,050,000		



## Moller Road Storm Sewer and Pavement Improvements Phase 2 (Design)

Project Number:	2
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Moller Road near South Street. Project location identified as number <b>2</b> on the CIP project location map.
Project Description:	This project includes the design of the second of a three phase project to add a storm sewer system, concrete curb and gutter pavement, and sidewalk along Moller Road. This is the fourth of several drainage improvement projects that were recommended in the M-1 Ditch Watershed Study that was completed in January 2011 by Dannenbaum Engineering.
Project Justification:	To improve drainage in the M-1 Ditch Watershed by adding a storm sewer system along Moller Road.
Current Status:	Dannenbaum Engineering is completing the final design of the project and a final plan set is anticipated to be ready in February 2022. This project will bid in October/November 2022 so that construction can start once construction of Moller Road Storm Sewer and Pavement Improvements Phase 1 is complete.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30+ years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$250,000	\$381,980	\$381,980	2019	Bond
<u>CONSTRUCTION</u>	\$3,550,000		\$3,700,000	2020	Bond
<u>GEO. STUDY</u>					
<u>TOTAL:</u>	\$3,800,000	\$381,980	\$4,081,980		



## FM 528 Extension (Design)

Project Number:	3
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Extension of FM 528 from Gordon Street to Highway 6. Project location identified as number 3 on the CIP project location map.
Project Description:	This project involves the construction of the extension of FM 528 from Gordon Street to Highway 6 along right-of-way that has been acquired in the last ten plus years.
Project Justification:	Completion of this project will help to relieve traffic congestion at the Gordon Street and Highway 6 intersection, as well as, provide a secondary evacuation route over the railroad tracks in the event that the railroad underpass along Highway 6 floods.
Current Status:	TXDOT has this project scheduled to let for construction in 2028. Council approved an Advance Funding Agreement with TXDOT for their review of the plans for the project on 7/16/2020. HDR submitted the plans to TXDOT for review on 9/30/2020. In June 2021 TXDOT informed HDR that the project drainage would have to be redesigned to include Atlas 14 design parameters and the bridge would have to be redesigned using the inverted tee green ribbon bent caps before they would do a full review of the plans. On August 2, 2021 TXDOT notified HDR that they would accept the aesthetics of the bridge as designed and would not required the inverted tee green ribbon bent caps. In November 2021 HDR received more review comments from TXDOT regarding the need to redesign the roadway/bridge typical section using new criteria for shared use bike/pedestrian pathways.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	30-35 years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,000,000	\$1,186,353.11	\$1,000,000	2018	
<u>CONSTRUCTION</u>	\$15,100,000				
<u>OTHER</u>					
<u>TOTAL:</u>	\$16,100,000	\$1,186,353.11	\$1,000,000		



## Lift Station 30 Expansion & HWY 35 Bypass Gravity Mains

Project Number:	4
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Lift Station 30 Expansion and HWY 35 Bypass gravity mains. Project location identified as number 4 on the CIP project location map.
Project Description:	This project includes the expansion of lift station 30 from a firm capacity of 4.61 MGD to a firm pumping capacity of 11.5 MGD. This project includes a new 24 inch force main, and the upsizing of the gravity lines to 36 inches immediately upstream and downstream of lift station 30.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	On April 15, 2021 Council awarded a bid to TLC Construction Contract Services for the construction of this 330 calendar day project. The Preconstruction meeting for the project was held on June 2, 2021 and the Notice to Proceed was issued June 21, 2021. Construction in progress.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

<b><u>PROJECT COST</u></b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,495,900	\$760,515	\$679,865	2018	Bonds
<u>CONSTRUCTION</u>	\$10,064,900	\$8,833,433	\$10,064,900	2019/2020	Bonds
<u>OTHER</u>					
<u>TOTAL:</u>	\$11,560,800	\$9,593,948	\$10,744,765		



## 54" Eastside Interceptor

Project Number:	5
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018/2019/2020 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Replacement 54" Eastside Interceptor. Project location identified as number 5 on the CIP project location map.
Project Description:	This project includes the construction of a 54 inch wastewater line from the 35 Bypass to the WWTP. The model showed the existing 27 inch and 33 inch wastewater lines do not have enough capacity to convey existing peak flows to the plant.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	Bids were opened on November 17, 2020 and Harper Brothers Construction, LLC was the qualified low bidder. Council awarded the bid in the amount of \$16,044,022 to Harper Brothers at their meeting on December 17, 2020. This is a 540 calendar day project. The Pre-Construction Meeting was held on March 24, 2021 and construction started April 26, 2021. Construction in progress.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	30+ years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$2,165,300	\$2,076,000	\$2,076,000	2018	Bond
<u>CONSTRUCTION</u>	\$16,399,450	\$16,044,022	\$16,047,130	2019/2020	Bond
<u>OTHER</u>	\$89,865	\$89,865		2019	Bond
<u>TOTAL:</u>	\$18,654,615	\$18,209,887	\$18,123,130		





## Northwest and Northeast Sanitary Sewer Basin Rehabilitation Project

Project Number:	6
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan - Wastewater CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer / Public Services Director
Project Location:	Northwest and Northeast Sanitary Sewer Basins in the northern portion of the City.
Project Description:	Utilities Master Plan recommended that a Sanitary Sewer Evaluation Survey be conducted throughout the Northeast and Northwest Basins to identify sources of Inflow and Infiltration. Once sources of I/I are found, the City should address them as required to reduce excess water from entering the wastewater system.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	City Council awarded a bid to Mitchell Contracting, Inc. on September 17, 2020 in the amount of \$540,265. This is a 122 calendar day project. The Notice to Proceed was issued on November 30, 2020. The final inspection for this project was held on July 15, 2021. The contractor completed a portion of the final inspection punch list in December 2021.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$95,300	\$95,200	\$95,300	2018	
<u>CONSTRUCTION</u>	\$855,700	\$540,265	\$850,000	2020	
<u>OTHER</u>					
<u>TOTAL:</u>	\$951,000	\$635,465	\$945,300		



### Water Plant #6 Tank Replacement Remaining Work

Project Number:	7
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2018 Water and Sewer Bond Funds
Assigned:	City Engineer
Project Location:	Water Plant No. 6 Ground Storage Tank Replacement identified as project number 7 on the CIP project location map.
Project Description:	Decommission three existing 0.43 MG ground storage tanks and add new 1.5 MG ground storage tank at Water Plant No. 6
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	The contract with T & C Construction, Ltd. was terminated on 11/9/2020 due to their inability to complete the project. The tank was placed online in December 2020 and the remaining site work was bid on 11/23/2021. The City Council awarded a bid for the remaining work on 1/6/2022 to W.W. Payton Corporation in the amount of \$415,635. Construction is anticipated to start in February 2022 on this 75 calendar day project.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$526,500	\$330,380	\$330,380	2018	Bond
<u>CONSTRUCTION</u>	\$2,632,500	\$2,583,157	\$2,583,157	2018/2022	Bond/Impact Fees
<u>OTHER</u>					
<b><u>TOTAL:</u></b>	<b>\$3,159,000</b>	<b>\$2,913,537</b>	<b>\$2,913,537</b>		



## Wayfinding Signs Project

Project Number:	8
Project Type:	Wayfinding
Strategic Plan:	Planning for directional movement in the City to key locations.
Funding:	General Fund
Assigned:	Economic Development Coordinator
Project Location:	Corporate City Limits
Project Description:	To develop a wayfinding signage system that will create a uniqueness about Alvin while also improving the economic vitality of lesser known parts of the City that tourists and visitors may not be aware of.
Project Justification:	By implementing wayfinding signage, visitors will be easily directed to key locations creating a more positive experience and it will encourage others to see what the City of Alvin has to offer beyond the visible elements on the main roadways.
Current Status:	Ongoing (01/10/22): Requested revisions to the planning document that would direct motorists to the train depot instead of city hall for the visitor center (CVB). Staff is considering relocating the CVB back to the train depot, which would alter a few directional signs. Once determined whether the visitor center will be located at city hall or the train depot, a bid package will be created for fabrication and installation of the signs.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	N/A

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$50,000	\$49,500	\$49,500	2019	
<u>CONSTRUCTION</u>	\$180,500	\$180,500	\$105,500	2020	
<u>OTHER</u>					
<b><u>TOTAL:</u></b>	<b>\$230,500</b>	<b>\$230,000</b>	<b>\$155,000</b>		



## Mustang Bayou Bank Repair

Project Number:	9
Project Type:	Park / Drainage
Strategic Plan:	Maintain Infrastructure
Funding:	General Fund
Assigned:	City Engineer / Parks Director / City Attorney
Project Location:	Two areas along the bank of Mustang Bayou that washed out during Hurricane Harvey. Project location identified as number 9 on the CIP project location map.
Project Description:	This project includes the design and repair of two locations along Mustang Bayou where the bayou side slope failed due to flood waters from Hurricane Harvey.
Project Justification:	This project is needed to restore the portion of the Hike and Bike Trail that was destroyed due to the side slope failure and to restore the bayou.
Current Status:	City Council awarded the bid to WadeCon, LLC in an amount not to exceed \$519,266 on August 5, 2021. Construction to start in mid February 2022.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	20 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$156,408	\$156,408	\$156,408	2018	
<u>CONSTRUCTION</u>	\$302,126	\$519,266	\$519,266	2022/FEMA	
<u>OTHER</u>					
<u>TOTAL:</u>	\$458,534	\$675,674	\$675,674		



## Hike and Bike Trail Phase III Design

Project Number:	10
Project Type:	Parks
Strategic Plan:	Extending the existing hike and bike trail as a key addition to the Alvin trail system for non-motorized transportation
Funding:	General Fund
Assigned:	Parks and Recreation Director
Project Location:	Identified on the CIP project location map as project number <b>10</b> . South Street to Mustang Road within the Corporate City Limits.
Project Description:	Design third phase of the existing Hike and Bike Trail adding approximately 1.6 miles of trail to the existing 1.7 miles.
Project Justification:	Provide non-motorized transportation from downtown Alvin to Alvin Community College.
Current Status:	Kimley/Horn is working on the final design of the trail.
Impact on Operating Budget:	Yes
Estimated Useful Life of Capital Investment:	20+ years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$100,000	\$150,000	\$150,000	2020/2021	
<u>CONSTRUCTION</u>	\$2,756,000				
<u>OTHER</u>					
<u>TOTAL:</u>	\$2,856,000	\$150,000	\$150,000		



### Water Line Improvements Phase 3

<b>Project Number:</b>	11
<b>Project Type:</b>	Water
<b>Strategic Plan:</b>	2015 Utility Master Plan - Water CIP Projects - 2020
<b>Funding:</b>	2020 Water and Sewer Bond Funds
<b>Assigned:</b>	City Engineer
<b>Project Location:</b>	General project location identified as project <b>11</b> on the CIP project location map.
<b>Project Description:</b>	New 8-inch and 6-inch water lines to connect and replace existing small diameter water lines in the area bounded by House Street, Bayou Drive, South Street, and Gordon Street. In addition replacement of waterline along Foley Street and within an easement from Legion Street to Adoue Street.
<b>Project Justification:</b>	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
<b>Current Status:</b>	LJA Engineering is completing the 100% plans in order to bid the project in May 2022.
<b>Impact to Operating Budget:</b>	No
<b>Estimated Useful Life of Capital Investment:</b>	20-25 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$549,900	\$549,900	\$549,900	2019	Bond
<u>CONSTRUCTION</u>	\$2,728,092		\$2,728,092	2019/2020	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$3,277,992	\$549,900	\$3,277,992		



## Water Line Improvements Phase 4

<b>Project Number:</b>	12
<b>Project Type:</b>	Water
<b>Strategic Plan:</b>	2015 Utility Master Plan - Water CIP Projects - 2022
<b>Funding:</b>	Water and Sewer Bond Funds
<b>Assigned:</b>	City Engineer
<b>Project Location:</b>	General project location identified as project <b>12</b> on the CIP project location map.
<b>Project Description:</b>	New 12-inch, 10-inch, 8-inch, and 6-inch water lines to connect and replace existing small diameter water lines in the area bounded by Blum Street, Johnson Street, South Street, and Callaway Drive.
<b>Project Justification:</b>	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
<b>Current Status:</b>	It is anticipated that design of this project will start in May / June 2022.
<b>Impact to Operating Budget:</b>	No
<b>Estimated Useful Life of Capital Investment:</b>	20-25 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$527,500		\$527,500	2015/2018	Bond
<u>CONSTRUCTION</u>	\$2,645,034		\$2,645,034	2019/2020/2023	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$3,172,534	\$0	\$3,172,534		



## Water Plant #4 Tank Replacement

Project Number:	13
Project Type:	Water
Strategic Plan:	2015 Utility Master Plan - Water CIP Projects - 2020
Funding:	2021 Water and Sewer Bonds / Impact Fees
Assigned:	City Engineer
Project Location:	Water Plant No. 4 Ground Storage Tank Replacement identified as project number <b>13</b> on the CIP project location map.
Project Description:	Decommission the existing 0.21 and 0.43 Million Gallon (MG) steel ground storage tanks and add a new 1.0 MG concrete ground storage tank at Water Plant #4.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	LJA Engineering is working on the final design of the project.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	20-25 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$351,000	\$378,500	\$378,500	2021	Impact Fees
<u>CONSTRUCTION</u>	\$2,900,000		\$915,587	2018	Bond/Impact Fees
<u>OTHER</u>					
<u>TOTAL:</u>	\$3,251,000	\$378,500	\$1,294,087		





## 2021 Asphalt Pavement Project (Contractor)

Project Number:	14
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Windsor Square, Oxford Road, Hurstgreen Lane, and Coventry Lane. Identified as number <b>14</b> on the CIP Project Location Map.
Project Description:	This project involves the rehabilitation of various asphalt streets within the City of Alvin. The project includes the reclamation, stabilization, and overlay of asphalt streets. The project locations will be determined based on recommendations from the 2014 Asphalt Pavement Assessment by JET Consulting.
Project Justification:	To improve existing infrastructure.
Current Status:	Council awarded a bid to Texas Materials Group, Inc. at their meeting on 11/18/2021 in the amount of \$1,651,931. Construction to start in February 2022 for this 120 calendar day project.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	10-15 years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>		\$98,000	\$98,000	2021	
<u>CONSTRUCTION</u>	\$1,300,000	\$1,651,931	\$1,651,931	2021/2022	
<u>OTHER</u>		\$35,000	\$35,000	2020	Geo./Topo.
<u>TOTAL:</u>	\$1,300,000	\$1,784,931	\$1,784,931		



### Lift Station 23 Expansion Project (design)

Project Number:	15
Project Type:	Sewer
Strategic Plan:	2015 Utility Master Plan
Funding:	2015 Certificates of Obligation Bond Funds/ 2022 Water and Sewer Revenue Bond
Assigned:	City Engineer
Project Location:	Lift Station 23 Expansion. Project location identified as number <b>15</b> on the CIP project location map.
Project Description:	This project includes the expansion of lift station 23 from a firm capacity of 2.02 MGD to a firm pumping capacity of 9.0 MGD and elimination of lift stations 15 and 16. This project includes 7,000 feet of new 24 inch force main along Bypass 35, and the upsizing 14,720 feet of the gravity mains along Steele Rd., N. Gordon, Rice St., and Ave. E 1/2 ranging in size from 15-inch to 30-inch.
Project Justification:	Identified in the 2015 Utility Master Plan by Freese and Nichols, Inc. that was approved by the City Council on March 3, 2016.
Current Status:	On October 21, 2021 City Council approved a professional services agreement with LJA for the acquisition of 35 easements and 1 fee simple property acquisition that are required for the construction of the project.
Impact to Operating Budget:	Yes
Estimated Useful Life of Capital Investment:	20-25 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$1,389,800	\$1,389,800	\$1,389,800	2015	Bond
<u>CONSTRUCTION</u>	\$19,800,000		\$2,248,800	2022	Bond
<u>OTHER- Easement Acquisition</u>	\$150,000	\$151,200	\$151,200	2022	Bond
<u>TOTAL:</u>	\$21,339,800	\$1,541,000	\$3,789,800		



## 2021 Wastewater Master Plan Update / Utility Rate Study

Project Number:	16
Project Type:	Utility
Strategic Plan:	Maintain Infrastructure / Planning for the Future
Funding:	Utility Project Fund
Assigned:	City Engineer / Public Services Director
Project Location:	All areas of the City and ETJ that the Wastewater System serves.
Project Description:	This project will provide an update to the wastewater portion of the City's Utility Master Plan that was done in 2015, provide an evaluation of the City's West-Central/Central Sanitary Sewer Basins, and provide a Water and Wastewater Rate Study (the last one was done in 2016).
Project Justification:	This project is needed in order to evaluate the City's Wastewater System now that projects that were recommended in the 2015 Utility Master Plan are in process or complete.
Current Status:	Council approved a contract with Freese and Nichols for engineering design services at their meeting on January 7, 2021. It is anticipated that design will be complete in 18 months. The kickoff meeting for the project was held on February 3, 2021. The wastewater flow monitoring was completed on May 27, 2021. Staff met with Freese on September 29, 2021 to discuss the preliminary findings. The draft Wastewater Master Plan Report is scheduled to be submitted to Staff in February 2022.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	5-10 years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$380,000	\$380,000	\$380,000	2021	
<u>CONSTRUCTION</u>					
<u>OTHER</u>					
<u>TOTAL:</u>	\$380,000	\$380,000	\$380,000		



## 2021 Wastewater Treatment Plant Facility Plan

Project Number:	17
Project Type:	Sewer
Strategic Plan:	Maintain Infrastructure / Planning for the Future
Funding:	Utility Project Fund
Assigned:	City Engineer / Public Services Director
Project Location:	City's Wastewater Treatment Plant. Identified as number 17 on the CIP Project Location Map.
Project Description:	This project will provide an evaluation of the City's Wastewater Treatment Plant and develop a facility plan that will identify improvements that will be required at the plant in the 5-year, 10-year, and 20-year planning periods.
Project Justification:	This project is needed in order to evaluate the City's only wastewater treatment plant now that the two optimization projects (2008 and 2018) are complete.
Current Status:	Council approved a contract with Freese and Nichols for engineering design services at their meeting on January 7, 2021. This evaluation will use wastewater flow projections from the Wastewater Master Plan Update, therefore this plan is time dependent on that plan. The project kickoff meeting was held on February 3, 2021 and the onsite assessment of the WWTP was conducted on March 3, 2021. Preliminary results of the onsite assessment were presented to Staff on April 21, 2021. Flow monitoring results were received May 27, 2021. Staff met with Freese on October 13, 2021 to discuss their preliminary findings. The draft report is expected in February 2022.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	10-15 years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$59,914	\$59,914	\$59,914	2021	
<u>CONSTRUCTION</u>					
<u>OTHER</u>					
<u>TOTAL:</u>	\$59,914	\$59,914	\$59,914		



## 2021 Concrete Pavement and Drainage Project

Project Number:	18
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Westfield Drive (Adams Street to Rowan Burton), Perry Lane (Adams Street to Rowan Burton), and Adams Street (portion that runs east-west to Rowan Burton). Project location identified as a number 18 on the CIP Project Location Map.
Project Description:	This project includes the removal and replacement of concrete pavement / curbs, the installation of storm pipe, manholes, inlets, and sidewalks.
Project Justification:	This project will replace the broken and uneven pavement and upgrade the storm system to allow for proper drainage.
Current Status:	On June 3, 2021 Council approved an engineering services agreement with Adico Consulting Engineers, LLC for the design of the project. Staff reviewed the final plan set and submitted comments to Adico in January 2022. This project is scheduled to bid in March 2022.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	25-30 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>		\$140,460			
<u>CONSTRUCTION</u>	\$1,584,000		\$1,800,000	2021	
<u>OTHER</u>					
<u>TOTAL:</u>	\$1,584,000	\$140,460	\$1,800,000		



## 2022 Asphalt Pavement Project

Project Number:	19
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Victory Lane from FM 528 to Clifford Street and Clifford Street from Victory Lane to the bridge over the D-4 Ditch. Identified as number <b>19</b> on the CIP Project Location Map.
Project Description:	This project involves the rehabilitation of various asphalt streets within the City of Alvin. The project includes the reclamation, stabilization, and overlay of asphalt streets. The project locations were determined based on recommendations from the 2020 Asphalt Pavement Assessment by JET Consulting.
Project Justification:	To improve existing infrastructure.
Current Status:	It is anticipated that design will start in March 2022.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	10-15 years

<b>PROJECT COST</b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>	\$1,500,000		\$1,500,000	2022	
<u>OTHER</u>					
<u>TOTAL:</u>	\$1,500,000	\$0	\$1,500,000		



## 2022 Concrete Pavement and Drainage Project

Project Number:	20
Project Type:	Streets
Strategic Plan:	Maintain Infrastructure
Funding:	Sales Tax Fund
Assigned:	City Engineer
Project Location:	Hood Street from Sealy Street to South Street. Project location identified as a number <b>20</b> on the CIP Project Location Map.
Project Description:	This project includes the removal and replacement of concrete pavement / curbs, the installation of storm pipe, manholes, inlets, and sidewalks.
Project Justification:	This project will replace the broken and uneven pavement and upgrade the storm system to allow for proper drainage.
Current Status:	It is anticipated that design of this project will start in May 2022.
Impact on Operating Budget:	No
Estimated Useful Life of Capital Investment:	25-30 years

<b><u>PROJECT COST</u></b>					
	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>					
<u>CONSTRUCTION</u>			\$1,600,000	2022	
<u>OTHER</u>					
<u>TOTAL:</u>	\$0	\$0	\$1,600,000		



## Wastewater Treatment Plant Critical Improvements

Project Number:	21
Project Type:	Sewer
Strategic Plan:	Maintain Infrastructure / Planning for the Future
Funding:	FY 2022/2023 Water and Wasterwater Revenue Bonds
Assigned:	City Engineer / Public Services Director
Project Location:	City's Wastewater Treatment Plant. Identified as number <b>21</b> on the CIP Project Location Map.
Project Description:	Complete critical WWTP improvements to the influent screen and lift station, grit removal system, a new blower at the aeration basins, erosion control at the clarifiers, two new RAS pumps, valves and flow meters, new tanks and improvements at the chemical building, new gates/valves/guardrails at the aerated sludge holding tank, one new blower, a blower replacement and miscellaneous improvements.
Project Justification:	These critical improvements were noted during the initial inspection of the plant for the 2021 WWTP Facility Plan.
Current Status:	Staff has requested a proposal from Freese and Nichols for engineering design of these critical improvements.
Impact to Operating Budget:	No
Estimated Useful Life of Capital Investment:	25+ years

### PROJECT COST

	<u>ESTIMATED</u>	<u>ACTUAL</u>	<u>FUNDS BUDGETED</u>	<u>FISCAL YEAR</u>	
<u>DESIGN</u>	\$701,276		\$701,276	2022	Bond
<u>CONSTRUCTION</u>	\$4,079,867		\$4,079,864	2022/2023	Bond
<u>OTHER</u>					
<u>TOTAL:</u>	\$4,781,143	\$0	\$4,781,140		