



Capital Improvement Program FY20-24+

City of Seabrook

August 2019

ABOUT CAPITAL IMPROVEMENTS

The comprehensive Capital Improvement Program document (CIP) is a tool for planning and visualizing the capital budget. The overall goals of the CIP are to:

- Present a document that can be reviewed by staff and council in workshop to address content and priorities yearly
- Projects supported by Enterprise Fund are differentiated from the General Fund. The Enterprise Fund supports Water and Sewer projects
- Detailed project information will be included on each project showing a brief description of project, timeline, proposed funding (if currently identified) if project is approved and completed projects.

Authority

The preparation of the Capital Improvement Program is in accordance with the City Charter. It consists of a capital budget for the ensuing fiscal year and a capital improvement program for the four fiscal years following. There is also a "FY24+" column to depict additional projects that have been identified for potential longer range goals.

Seabrook City Charter

Section 5.02 (11)

A Five (5) Year Capital Program and Budget, which may be revised and extended each year to indicate capital improvements pending or in the process of construction or acquisition, and shall include the following items:

- a. A summary of proposed programs;*
- b. A list of all capital improvements which are proposed to be undertaken during the five (5) fiscal years next ensuing, with appropriate supporting information as to the necessity for such improvements;*
- c. Cost estimates, method of financing and recommended time schedules for each such improvement; and*
- d. Adoption of the budget is for the ensuing fiscal year only and does not constitute adoption for the subsequent four (4) fiscal years.*

Purpose

The Capital Improvement Program (CIP) is a recommended schedule of improvements or additions to city capital assets, including the planning and design thereof. The CIP is a 5-year plan, of which the first year represents the proposed capital budget for the current fiscal year. The remaining four years of the CIP serve as a financial plan for capital investments. The CIP will be updated annually, at which time the schedule of projects will be re-evaluated, and another fiscal year added with new projects, as appropriate.

Capital assets are comprised of facilities, infrastructure, equipment, and networks that enable or improve the delivery of public sector services. The procurement, construction, and maintenance of capital assets are critical activities in the management of those assets.

Capital projects are major projects undertaken by the City that fit one or more of the following categories:

1. Construction of new facilities or infrastructure.
2. Non-recurring rehabilitation or major repairs to a capital asset.
3. Acquisition of land for a public purpose.
4. All projects requiring debt obligation or borrowing.
5. Purchase of major equipment and vehicles meeting the threshold definition of a capital asset.
6. Any specific planning, engineering study or design work related to a project that falls in the above categories

Financing the Capital Budget

The City considers all forms of public financing when developing its CIP. These include:

General Obligation Bonds – Bonds are the primary source of funding by which capital projects are financed and are a long term debt instrument backed by the full faith and credit of the city and issued with the guarantee that the government will use its general taxing authority to pay principal and interest payments on the debt. Seabrook citizens must vote to approve the authorization to issue GO Bonds, and once authorized, the bonds may only be used for project listed in propositions.

Revenue Bonds – Long term debt instrument secured by the revenues of the City's utilities. Revenue Bonds can only be issued for utility related capital projects and are issued with 5-20 year amortizations.

Government Loans and Grants – The City receives state grants and loans for various capital projects, including roads and community facilities.

Grants and Contributions – Funds contributed to a project via a project-specific grant program or by a local business or special interest group. This includes developer contributions, which are payments by developers for capital facilities that enhance their property.

Capital Impact Fees – A source of funding for Water and Wastewater projects only, these are user fees in the form of connection charges.

Community Development Block Grant (CDBG) Funds – Federal grant funds used primarily to facilitate the production and preservation of low and moderate-income housing, but also utilized for capital projects that serve or benefit the City's low-income population.

Operating Funds – Next to general obligation bonds, operating funds are the largest source of funding for capital projects. Transfer of funds from the operating (General Fund, Economic Development Fund, Parks Fund, or other special funds) to the capital budget for specific capital projects are noted in budget documents.



Role of the Master Plans in the Capital Improvement Program

The Seabrook Comprehensive Plan is the financially unconstrained long-range plan for the city. In accordance with Article XI, Section 11.24 of the Seabrook City Charter it identifies goals and policies for city land use, economic development, transportation, sensitive environmental resources, community facilities, including parks, and water resources. The Comprehensive Plan is recognized as a key component of the CIP because it assists in determining the strategic goals that the city aims to achieve over the long term via its program of capital investments. The link between the Comprehensive Plan, the Annual Strategic Plan and CIP is supported by various planning documents and studies, including functional master plans that inventory and assess particular types of physical infrastructure, identify deficiencies, and prioritize needed investments.

How to Read this Document

The sections which follow represent the capital improvement projects grouped category by schedule of funding and then in a table format that includes the funding possibilities. Additional capital needs anticipated over the long term are noted. Those potential projects may be included in the CIP in future years, depending on priorities, funding availability, and other considerations. They are included in this document to convey to City leaders and other interested parties the general parameters and breadth of upcoming capital needs.

Within each of the projects, it is further sorted into project stages by year. This allows like projects to be considered together, so as to determine overall City priorities and allow for resources to be allocated accordingly.

Project Planning Stage: Includes the development of the project scope, feasibility study, a design budget, and order of magnitude construction budget.

Design Stage: Includes the development of any environmental documents, legal documents, construction plans and specifications, and a detailed construction budget.

Construction Stage: Includes site preparation, utility and infrastructure placement, equipment installation, construction, and environmental mitigation.

FUNDS - OVERVIEW

The city considers all funds when developing the CIP. Sources of include operating funds (General Fund, Enterprise Fund, Economic Development Corporation, Park Improvement Fund or other special funds), General Obligation Bonds, Revenue Bonds, government loans and grants, Community Development Block Grant (CDBG) funds, revenue from fees, and revenue from Capital Impact Fees.

In 2017, the city established a Capital Reserve Fund (Fund 28) by Resolution 2017-41. This fund is used to maintain and preserve infrastructure and enhance the funding ability for the City's CIP. The fund is separate from the special capital project funds.

Completed Projects



CIP #	PROJECT DESCRIPTION	FISCAL YEAR COMPLETED		ACTUAL PROJECT COST
WATER PROJECTS				
W4	HUMBLE DRIVE WATER PLANT RELOCATION	FY18	\$	2,407,990
W8	WATER PLANT BOOSTER PUMPS <i>(INCLUDED WITH W4)</i>	FY18	\$	-
W*	RED ACRES SUBDIVISION WATERLINE (PHASE 1)			39,201
TOTAL WATER PROJECTS				\$ 2,447,191
WASTEWATER PROJECTS				
WW*	EAST MEYER PIPE BURSTING ¹	FY16	\$	97,500
WW5	WASTEWATER TREATMENT PLANT UPGRADES PHASE 1	FY15	\$	537,579
TOTAL WASTEWATER PROJECTS				\$ 635,079
DRAINAGE PROJECTS				
D7	HESTER'S GULLY DRAINAGE IMPROVEMENTS	FY17	\$	1,205,934
TOTAL DRAINAGE PROJECTS				\$ 1,205,934
STREET PROJECTS				
S1	BAYBROOK SECTION 1 - DELABROOK CT	FY16	\$	209,723
S2	BAYBROOK SECTION 1 - CEDARBROOK CT	FY17	\$	217,169
S10	MARVIN CIRCLE	FY19	\$	296,746
TOTAL STREET PROJECTS				\$ 723,638
FACILITY PROJECTS				
FAC8	VOLUNTEER FIRE DEPARTMENT FLOOR COATING	FY19	\$	45,824
TOTAL FACILITY PROJECTS				\$ 321,346
PARK PROJECTS				
P3	PINDO PALMS	FY19	\$	15,000
P4	BAYBROOK TENNIS COURT	FY19	\$	12,290
P5	ROBINSON PARK PARKING LOT	FY19	\$	18,000
TOTAL PARK PROJECTS				\$ 45,290
TOTAL COMPLETED CIP PROJECTS			\$	5,378,478

NOTES:

¹ Includes engineering costs only. Project did not go to construction.

[MAY EXTEND INTO 2020](#)

Future Projects

Project Name	Year Proposed for Funding
Boat Ramp FY22	TxDOT and TPWD
Commercial Road	Developer Driven Project
Humble Drive Extension	TBD
Public Safety / Court Building	FY 24+
SH 146 Beautification – Lighting	TBD
SH 146 Beautification – Gateway Signage	TBD
Fire – Heavy Rescue Tools	General Fund
Fire – Engine Replacement	FY 24+
Fire – Traffic Emption System	TBD
Fire – Thermal Imaging Cameras	TBD
Fire – Radios	TBD

CAPITAL IMPROVEMENT PROJECT SUMMARY

CIP #	PROJECT DESCRIPTION	Funding	PROJECT COST						PROJECT TOTALS
			PREVIOUS	FY20	FY21	FY22	FY23	FY24+	
WATER PROJECTS									
W2	SHIPYARDS WATER SERVICE PHASE 1	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 693,820	\$ 693,820
W3	SHIPYARDS WATER SERVICE PHASE 2	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 843,080	\$ 843,080
W5	TAYLOR LAKE WATER LINE CROSSING	OTHER AGENCY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,093,800	\$ 2,093,800
W6	OLD SEABROOK WATER LINE IMPROVEMENTS	IMPACT & ENTERPRISE	\$ 44,302	\$ 253,485	\$ -	\$ -	\$ -	\$ -	\$ 297,787
W7	STATE HIGHWAY 146 WATER LINE IMPROVEMENTS	SIB & ENTERPRISE	\$ 1,937,453	\$ 33,750	\$ -	\$ -	\$ -	\$ -	\$ 1,971,203
W9	RED ACRES SUBDIVISION WATER LINE	IMPACT & FBOND	\$ 39,201	\$ -	\$ -	\$ 1,255,878	\$ -	\$ -	\$ 1,295,079
W10	PINE GULLY AREA WATER LINE IMPROVEMENTS - SIDE STREET	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,179,750	\$ 1,179,750
W11	FRIENDSHIP PARK WATER TANK REHABILITATION	IMPACT FEES	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000
W12	REPSDORPH WATER TANK REHABILITATION	ENTERPRISE	\$ -	\$ -	\$ 780,313	\$ -	\$ -	\$ -	\$ 780,313
W13	CHLORAMINE CONVERSION	ENTERPRISE	\$ 27,875	\$ 245,000	\$ -	\$ -	\$ -	\$ -	\$ 272,875
W14	NASA 1 WATER LINE IMPROVEMENTS	IMPACT & ENTERPRISE	\$ 96,350	\$ 297,423	\$ -	\$ -	\$ -	\$ -	\$ 393,773
W15	RED BLUFF 12-INCH WATER LINE	ENTER & FBOND	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,066,585	\$ 1,066,585
W16	OLD SH 146 INTERCONNECT	IMPACT	\$ -	\$ -	\$ 124,588	\$ 622,938	\$ -	\$ -	\$ 747,525
W17	PINE GULLY WATER LINE IMPROVEMENTS	ENTERPRISE	\$ 33,274	\$ 89,541	\$ -	\$ -	\$ -	\$ -	\$ 122,815
W18	HESTER'S GULLY WATER LINE IMPROVEMENTS	ENTERPRISE	\$ 38,403	\$ 105,771	\$ -	\$ -	\$ -	\$ -	\$ 144,174
TOTAL WATER PROJECTS			\$ 2,216,858	\$ 1,374,970	\$ 904,900	\$ 1,878,816	\$ -	\$ 5,877,035	\$ 12,252,578
WASTEWATER PROJECTS									
		Funding	PREVIOUS	FY20	FY21	FY22	FY23	FY24+	PROJECT TOTALS
WW1	EAST MEYER TEMP PARALLEL 12" SAN. SEW. (DIRECTIONAL DRILL)	FBONDS	\$ -	\$ -	\$ 862,896	\$ -	\$ -	\$ -	\$ 862,896
WW2	SHIPYARDS SEWER SERVICE PHASE 1	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,460,763	\$ 1,460,763
WW3	SHIPYARDS SEWER SERVICE PHASE 2	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 682,500	\$ 682,500
WW4	TODVILLE SEWER LINE REPLACEMENT	2016A COS	\$ 1,281,247	\$ 78,353	\$ -	\$ -	\$ -	\$ -	\$ 1,359,600
WW6	WASTEWATER TREATMENT PLANT UPGRADES PHASE 2	2016A COS	\$ 827,394	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 827,394
WW7	RED BLUFF SANITARY SEWER EXTENSION	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640,800	\$ 640,800
WW8	STATE HIGHWAY 146 SANITARY SEWER IMPROVEMENTS	SIB & ENTERPRISE	\$ 2,191,566	\$ 33,750	\$ -	\$ -	\$ -	\$ -	\$ 2,225,316
WW9	PINE GULLY WASTEWATER TREATMENT PLANT PHASE 1A	2016A COS & IMPACT	\$ 619,501	\$ 2,679,967	\$ 1,112,472	\$ -	\$ -	\$ -	\$ 4,411,940
WW10	PINE GULLY WASTEWATER TREATMENT PLANT PHASE 1B	POTENTIAL GRANT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,231,250	\$ 4,231,250
WW11	PINE GULLY WASTEWATER TREATMENT PLANT PHASE 2	POTENTIAL GRANT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,895,840	\$ 23,895,840
WW12	PINE GULLY WASTEWATER TREATMENT PLANT PHASE 3	POTENTIAL GRANT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,897,600	\$ 24,897,600
WW13	PINE GULLY WASTEWATER TREATMENT PLANT PHASE 4	POTENTIAL GRANT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 728,650	\$ 728,650
TOTAL WASTEWATER PROJECTS			\$ 4,919,707	\$ 2,792,070	\$ 1,975,368	\$ -	\$ -	\$ 56,537,403	\$ 66,224,548
DRAINAGE PROJECTS									
		Funding	PREVIOUS	FY20	FY21	FY22	FY23	FY24+	PROJECT TOTALS
D1	TODVILLE ROAD BRIDGE	HARRIS COUNTY	\$ -	\$ -	\$ 4,112,418	\$ -	\$ -	\$ -	\$ 4,112,418
D2	EL MAR DITCH	HARRIS COUNTY 50% CITY	\$ -	\$ 3,905,527	\$ -	\$ -	\$ -	\$ -	\$ 3,905,527
D3	RED BLUFF ROAD DRAINAGE CHANNEL	DEVELOPER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,572,500	\$ 9,572,500
D4	WILDLIFE PARK DRAINAGE EXPANSION	IMPACT & FBOND	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 785,243	\$ 785,243
D5	BAYBROOK SECTION 1 - DRAINAGE IMPROVEMENTS	FBONDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,188,024	\$ 1,188,024
D6	LOWER PINE GULLY DRAINAGE IMPROVEMENTS	POTENTIAL GRANT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,792,493	\$ 2,792,493
D8	SURF OAKS DRIVE	IMPACT FEES	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,800	\$ 345,800
D9	DU LAC TRACE, WATER WAY OUTFALLS	FUND 28 GEN	\$ 29,400	\$ 159,125	\$ -	\$ -	\$ -	\$ -	\$ 188,525
D10	BAYWOOD BRIDGE IMPROVEMENTS	HARRIS COUNTY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 820,500	\$ 820,500
D11	SEASCAPE SUBDIVISION HCFCD BOND E-07	HARRIS COUNTY 50% CITY	\$ 49,880	\$ 1,190,120	\$ -	\$ -	\$ -	\$ -	\$ 1,240,000
D12	BAYBROOK SUBDIVISION HCFCD BOND E-07	HARRIS COUNTY 50% CITY	\$ 38,000	\$ 960,000	\$ -	\$ -	\$ -	\$ -	\$ 998,000
D13	MIRAMAR SUBDIVISION STREET AND STORM IMPROVEMENTS	TBD	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,300,759	\$ 7,300,759
TOTAL DRAINAGE PROJECTS			\$ 117,280	\$ 6,214,772	\$ 4,112,418	\$ -	\$ -	\$ 22,805,319	\$ 33,249,788

STREET PROJECTS			Funding	PREVIOUS	FY20	FY21	FY22	FY23	FY24+	PROJECT TOTALS
S3	BAYBROOK SECTION 1 - BROOKWOOD CT	SANIT FRANCHISE		\$ 306,772	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 306,772
S8	SEASCAPE II STREET IMPROVEMENTS	FBONDS		\$ -	\$ -	\$ -	\$ 2,574,748	\$ 1,839,106	\$ -	\$ 4,413,855
S9	BAYBROOK SECTION III STREET IMPROVEMENTS	FBONDS		\$ -	\$ -	\$ -	\$ -	\$ 1,479,418	\$ 2,465,696	\$ 3,945,114
TOTAL STREET PROJECTS				\$ 306,772	\$ -	\$ -	\$ 2,574,748	\$ 3,318,524	\$ 2,465,696	\$ 8,665,741
FACILITY PROJECTS			Funding	PREVIOUS	FY20	FY21	FY22	FY23	FY24+	PROJECT TOTALS
FAC1	SCADA SYSTEM UPGRADES	2016 CO & TBD		\$ 275,522	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 275,522
FAC6	SMART WATER METER CONVERSION	2016A SURPLUS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,162,556	\$ 2,162,556
FAC7	PUBLIC SAFETY INSPECTION AREA (SH 146)	FUND 28 GEN		\$ -	\$ 326,294	\$ -	\$ -	\$ -	\$ -	\$ 326,294
FAC9	CITY HALL COUNCIL CHAMBERS	COURT FUNDS		\$ -	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ 37,500
FAC10	WATER WELLS FIBER CONDUIT	FUND 28 GEN & FD 31		\$ -	\$ 114,176	\$ -	\$ -	\$ -	\$ -	\$ 114,176
FAC11	WATER WELLS FIBER CONDUIT	FUND 28 GEN		\$ -	\$ 230,825	\$ -	\$ -	\$ -	\$ -	\$ 230,825
FAC12	SCADA SYSTEM UPGRADES WASTE WATER	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
FAC13	FIRE STATION A/C REPLACEMENT	FUND 28 GEN		\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ 160,000
FAC14	FIRE STATION WATER HEATER REPLACEMENT	FUND 28 GEN		\$ -	\$ 31,250	\$ -	\$ -	\$ -	\$ -	\$ 31,250
TOTAL FACILITY PROJECTS				\$ 275,522	\$ 900,045	\$ -	\$ -	\$ -	\$ 2,712,556	\$ 3,888,123
PARK PROJECTS			Funding	PREVIOUS	FY20	FY21	FY22	FY23	FY24+	PROJECT TOTALS
P1	PINE GULLY HIKE AND BIKE TRAIL	POTENTIAL GRANT		\$ -	\$ -	\$ 60,000	\$ 749,400	\$ -	\$ -	\$ 809,400
P2a	E MEYER SAFE ROUTES TO SCHOOL SIDEWALK	OTHER AGENCY		\$ -	\$ -	\$ 560,137	\$ -	\$ -	\$ -	\$ 560,137
P2b	E MEYER HIKE AND BIKE TRAIL - Segment B	OTHER AGENCY		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 336,158	\$ 336,158
P6	WILDLIFE PARK PLAYGROUND EQUIPMENT	TBD		\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ 40,000
P7	MEADOR PARK TRAIL LIGHTS	TBD		\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000
P9	TAYLOR LAKE KAYAK	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000
P11	PINE GULLY PIER TEE HEAD REPLACEMENT	TBD		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000
TOTAL PARK PROJECTS				\$ -	\$ -	\$ 665,137	\$ 789,400	\$ -	\$ 531,158	\$ 1,985,695
EDC1	STARBOARD ROAD (RED BLUFF EXTENTION)	DEVELOPER		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,744,093	\$ 2,744,093
TOTAL EDC PROJECTS				\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,744,093	\$ 2,744,093
TOTAL COST PER YEAR				\$ 7,836,139	\$ 11,281,857	\$ 7,657,823	\$ 5,242,964	\$ 3,318,524	\$ 93,673,260	\$ 129,010,566

PROPOSED WATER PROJECTS

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SHIPYARDS WATER SERVICE PHASE 1
 Project Location/Limits: TODVILLE ROAD TO JENNINGS ISLAND (UNDER SH146)
 CIP Number: W2
 Facility Type: WATER

Project Description and Justification

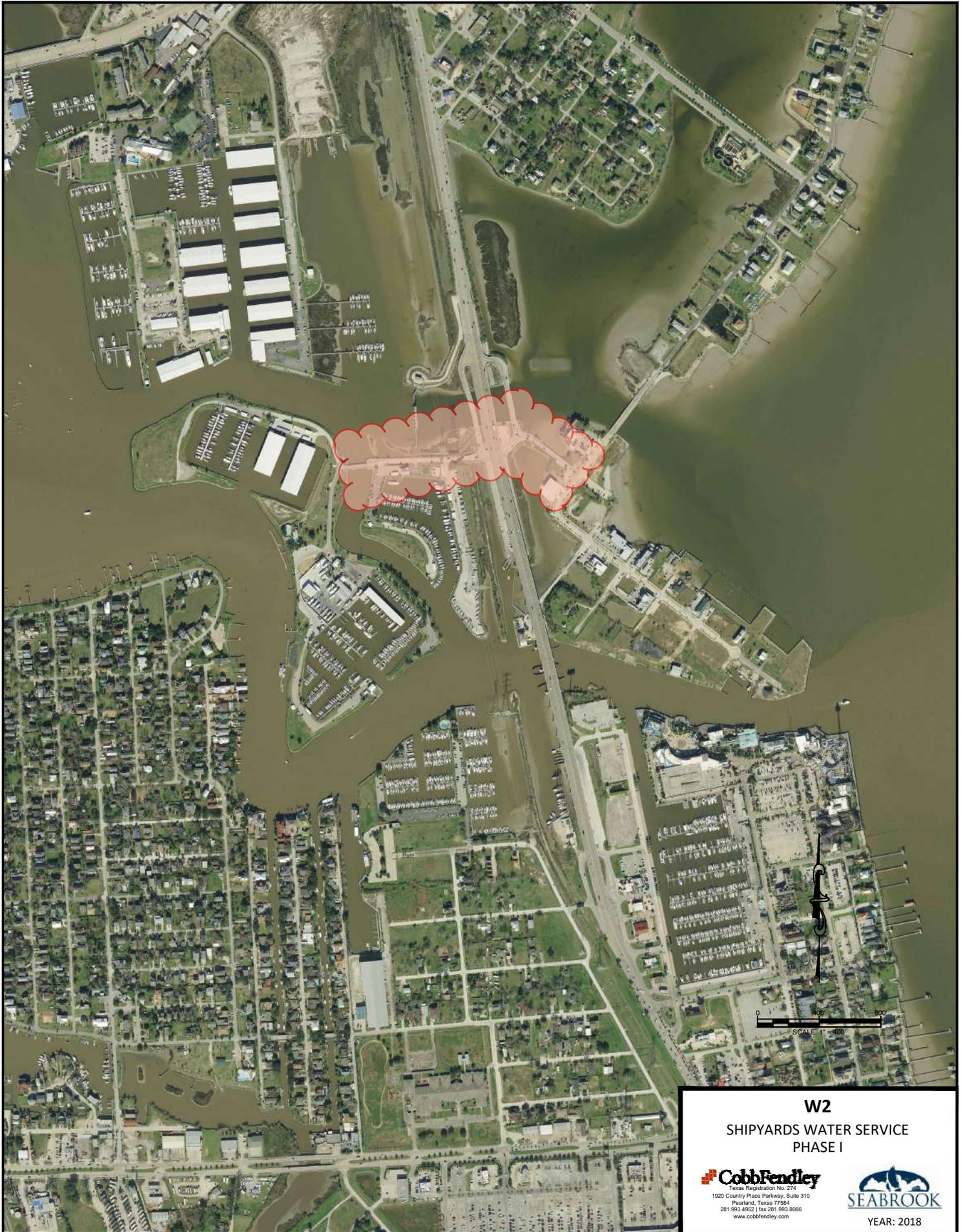
The Shipyards (Jennings Island) is a poorly served area with much of it still on water wells. This project will provide City water services to the area and provide for future development in the area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 98,500	\$ 98,500
Land/Easements Acq.						\$ 60,000	\$ 60,000
Construction						\$ 535,320	\$ 535,320
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 693,820	\$ 693,820

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 693,820	\$ 693,820
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 693,820	\$ 693,820

Comments/Special Project Notes:



W2
SHIPYARDS WATER SERVICE
PHASE I

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pasland, Texas 77564
281.993.4952 | fax 281.993.8086
www.cobbfendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SHIPYARDS WATER SERVICE PHASE 2
 Project Location/Limits: EAST SIDE OF JENNINGS BRIDGE TO WEST AND SOUTHERN EXTENTS OF THE ISLAND
 CIP Number: W3
 Facility Type: WATER

Project Description and Justification

This project will provide adequate supply for firefighting within the Shipyards, as well as provide the means to support economic development within the area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 110,000	\$ 110,000
Land/Easements Acq.						\$ 30,000	\$ 30,000
Construction						\$ 703,080	\$ 703,080
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 843,080	\$ 843,080

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 843,080	\$ 843,080
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 843,080	\$ 843,080

Comments/Special Project Notes:

Project is dependent on W2 being completed or under construction.



W3
SHIPYARDS WATER SERVICE
PHASE II


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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: TAYLOR LAKE WATER LINE CROSSING
 Project Location/Limits: ALONG RED BLUFF ROAD BRIDGE ACROSS TAYLOR LAKE
 CIP Number: W5
 Facility Type: WATER

Project Description and Justification

This line segment is owned by the City of Pasadena and should be properly maintained by Pasadena. The water line has not been properly maintained, however, and is in poor condition. The line was originally installed by the City of Seabrook but traded to the City of Pasadena years ago as part of a service arrangement with Pasadena. The line is of critical importance to the City of Seabrook for future outlay.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 325,000	\$ 325,000
Land/Easements Acq.						\$ 150,000	\$ 150,000
Construction						\$ 1,618,800	\$ 1,618,800
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,093,800	\$ 2,093,800

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							
Other: ___ (Fund/Agency)						\$ 2,093,800	\$ 2,093,800
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,093,800	\$ 2,093,800

Comments/Special Project Notes:

The aerial crossing attached to Taylor Lake Bridge suffers from corrosion. The lack of maintenance subjects the City of Seabrook to the likelihood of perforations and service downtime. This project would replace the existing aerial crossing with an underground, directional drilled HDPE line that would not be subject to corrosion or storm damage. In Fall 2016, City of Pasadena installed a coating (stopaq) on the existing pipe to protect it from continued corrosion. Future improvements to Red Bluff Road may require modifications to the line's existing location. This project may require a USACE Permit and a GLO Easement.



W5
TAYLOR LAKE WATER LINE
CROSSING

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: OLD SEABROOK WATER LINE IMPROVEMENTS
 Project Location/Limits: ALONG 1ST STREET FROM SH146 TO NORTH MEYER, ANDERS FROM 1ST STREET TO ELEM. SCHOOL
 CIP Number: W6 project 312
 Facility Type: WATER

Project Description and Justification

The water line along 1st Street and Anders is old asbestos cement pipe and is in need of being replaced. The water line along 1st Street will be upsized from an 8-Inch line to a 12-Inch line to provide increased capacity and provide options for the PW Department to isolate and redirect lines as conditions arise.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 44,302	\$ 4,922					\$ 49,224
Land/Easements Acq.							\$ -
Construction		\$ 248,563					\$ 248,563
Total Cost	\$ 44,302	\$ 253,485	\$ -	\$ -	\$ -	\$ -	\$ 297,787

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash		\$ 248,563					\$ 248,563
Impact Fees	\$ 44,302	\$ 4,922					\$ 49,224
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 44,302	\$ 253,485	\$ -	\$ -	\$ -	\$ -	\$ 297,787

Comments/Special Project Notes:

Project should initiate once SH146 utility adjustments are under construction or completed. Project construction does not include crossing under SH 146, see CIP W7.



W6
OLD SEABROOK WATER LINE
IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: RED ACRES SUBDIVISION WATER LINE
 Project Location/Limits: RED BLUFF ROAD TO LOGANBERRY CIRCLE
 CIP Number: W9
 Facility Type: WATER

Project Description and Justification

The City currently has a 6-inch water line in this location now. The water modeling suggests that this area is not class A in its capacity to supply fire flow at 2500 gpm. A water line arrangement that limits supply efficiency and an aged 6" water line that limits capacity.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 39,201			\$ 208,003			\$ 247,204
Land/Easements Acq.							\$ -
Construction				\$ 1,047,875			\$ 1,047,875
Total Cost	\$ 39,201	\$ -	\$ -	\$ 1,255,878	\$ -	\$ -	\$ 1,295,079

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash	\$ 39,201			\$ 208,003			\$ 247,204
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD				\$ 1,047,875			\$ 1,047,875
Other: __Cap improvement__							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 39,201	\$ -	\$ -	\$ 1,255,878	\$ -	\$ -	\$ 1,295,079

Comments/Special Project Notes:



W9 Ph 2
RED ACRES SUBDIVISION
WATER LINE



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WATER LINE IMPROVEMENTS
 Project Location/Limits: PINE GULLY, SURF OAKS, CASA MARE, FLAMINGO DR.
 CIP Number: W10
 Facility Type: WATER

Project Description and Justification

This area is mostly served by single-strand 6-inch water lines. From our water model, it can be observed that the infrastructure is not Class A fire flow at 2500 gpm. By upsizing these 6" water lines to 8" water lines, there will be improved capacity to this area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 166,000	\$ 166,000
Land/Easements Acq.							\$ -
Construction						\$ 1,013,750	\$ 1,013,750
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,179,750	\$ 1,179,750

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)						\$ 1,179,750	\$ 1,179,750
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,179,750	\$ 1,179,750

Comments/Special Project Notes:

These areas were included based on the water model that was done as part of the impact fee study.



W10
PINE GULLY WATER LINE
REPLACEMENT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: FRIENDSHIP PARK WATER TANK REHABILITATION
 Project Location/Limits: ELEVATED STORAGE TANK
 CIP Number: W11
 Facility Type: WATER TANK

Project Description and Justification

To ensure the public water supply storage tanks are in safe and productive working order and in compliance with the TCEQ & EPA environmental rules and regulations. The project will include replacing protective coating systems and performing minor structural repairs.

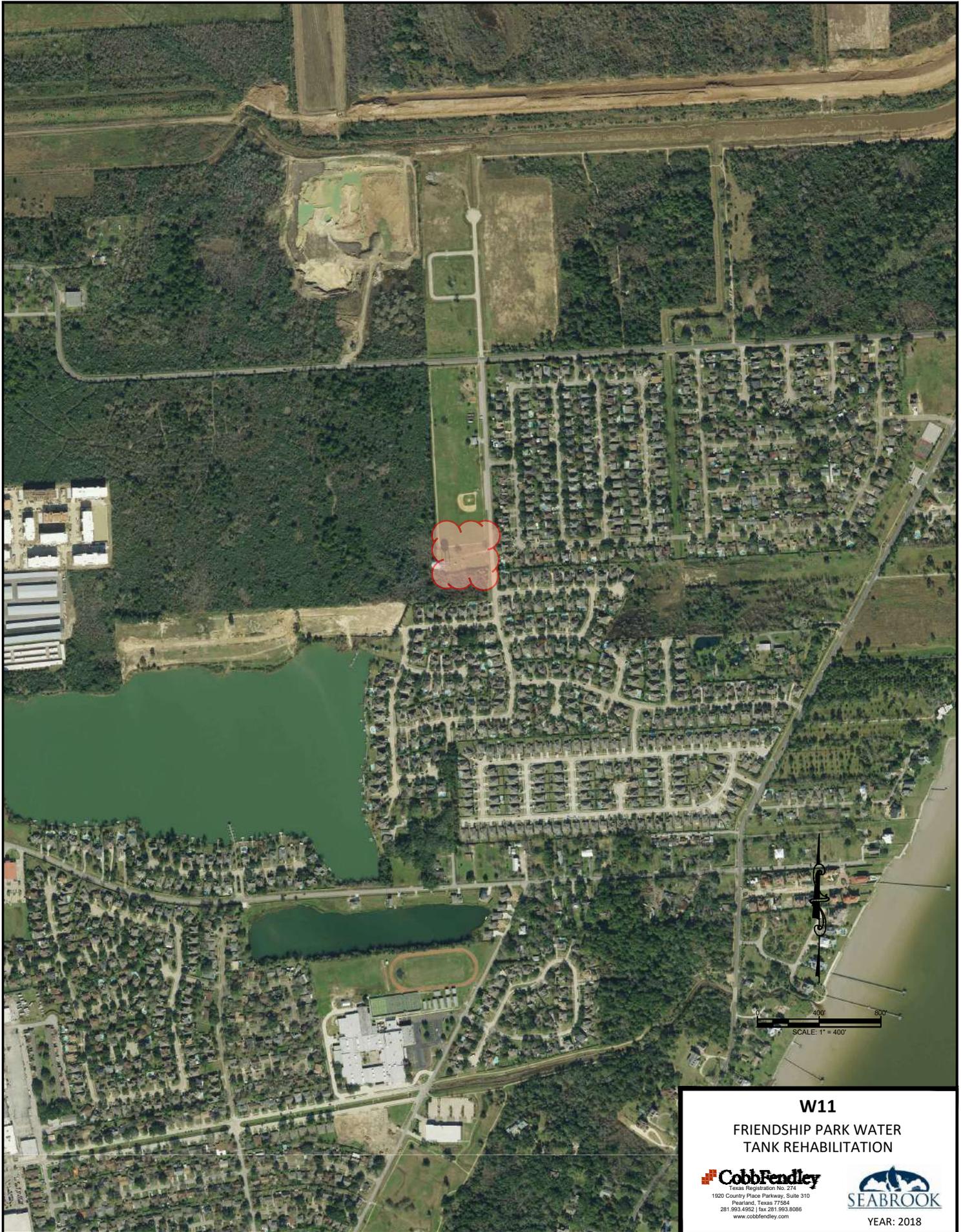
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning		\$ 50,000					\$ 50,000
Land/Easements Acq.							\$ -
Construction		\$ 300,000					\$ 300,000
Total Cost	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees		\$ 350,000					\$ 350,000
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Comments/Special Project Notes:

Above estimate provided based on current DEI inspection reports.



W11
FRIENDSHIP PARK WATER
TANK REHABILITATION

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: REPSDORPH WATER TANK REHABILITATION
 Project Location/Limits: ELEVATED STORAGE TANK
 CIP Number: W12
 Facility Type: WATER TANK

Project Description and Justification

To ensure the public water supply storage tanks are in safe and productive working order and in compliance with the TCEQ & EPA environmental rules and regulations. The project will include replacing protective coating systems and performing minor structural repairs.

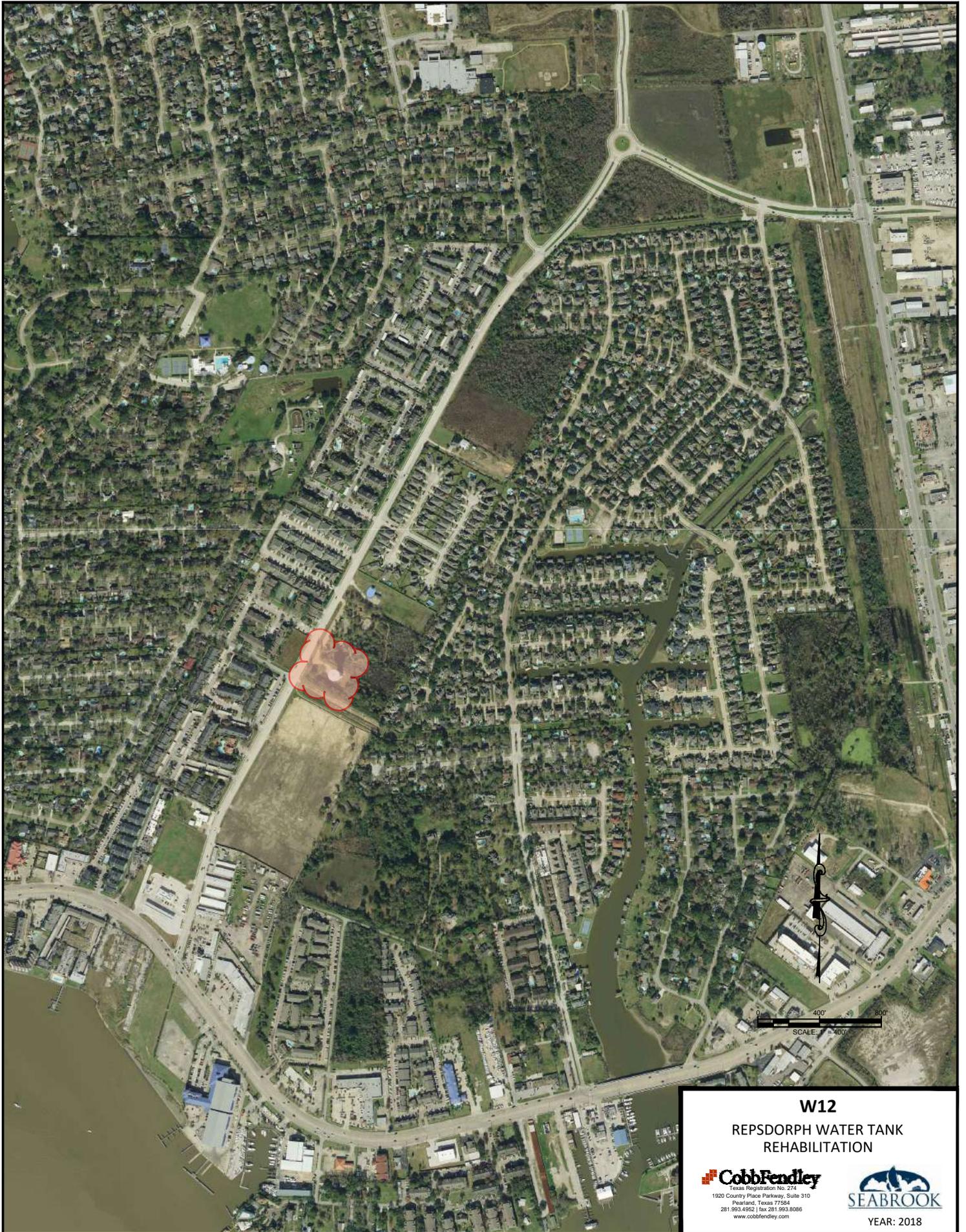
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning			\$ 65,000				\$ 65,000
Land/Easements Acq.							\$ -
Construction			\$ 715,313				\$ 715,313
Total Cost	\$ -	\$ -	\$ 780,313	\$ -	\$ -	\$ -	\$ 780,313

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash			\$ 780,313				\$ 780,313
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ 780,313	\$ -	\$ -	\$ -	\$ 780,313

Comments/Special Project Notes:

Above estimate provided based on current DEI inspection reports.



W12
REPSDORF WATER TANK
REHABILITATION

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CHLORAMINE CONVERSION
 Project Location/Limits: CITY OWNED WATER PLANTS
 CIP Number: W13
 Facility Type: DISINFECTION EQUIPMENT

Project Description and Justification

The City purchases chloraminated surface water from the City of Pasadena. The City's water wells are disinfected with chlorine only. The City wants to use the same disinfection method on the surface water and well water to reduce taste and odor issues and production of disinfection by-products. Conversion to chloramine disinfection requires an ammonia chemical system to be installed at each of the three water plant sites. Liquid ammonia solution (LAS) is the preferred product. The ammonia and chlorine together create chloramines.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 27,875	\$ 13,750					\$ 41,625
Land/Easements Acq.							\$ -
Construction		\$ 231,250					\$ 231,250
Total Cost	\$ 27,875	\$ 245,000	\$ -	\$ -	\$ -	\$ -	\$ 272,875

FUNDING SOURCES BY FISCAL YEAR

Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash	\$ 27,875	\$ 245,000					\$ 272,875
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 27,875	\$ 245,000	\$ -	\$ -	\$ -	\$ -	\$ 272,875

Comments/Special Project Notes:

TCEQ indicated that a city-wide chloramine conversion is preferable to converting one plant at a time. Liquid ammonia solution is stored in drums and day tanks, and is less volatile than ammonia gas.

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: NASA RD 1 WATER LINE IMPROVEMENTS
 Project Location/Limits: NASA RD 1 FROM SH146 TO 7TH ST AND 3RD ST FROM NASA RD 1 to NICHOLSON ST
 CIP Number: W14
 Facility Type: WATER

Project Description and Justification

The water line along NASA Rd 1 from SH146 to 7 Street needs to be upsized to a 12-Inch line to match the lines on each side of SH146. A water line crossing NASA Rd 1 running along 3rd Street needs to be upsized to a 12-inch to allow for future development north of Nicholson St.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 96,350	\$ 10,706					\$ 107,056
Land/Easements Acq.							\$ -
Construction		\$ 286,717					\$ 286,717
Total Cost	\$ 96,350	\$ 297,423					\$ 393,773

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash		\$ 286,717					\$ 286,717
Impact Fees	\$ 96,350	\$ 10,706					\$ 107,056
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 96,350	\$ 297,423	\$ -	\$ -	\$ -	\$ -	\$ 393,773

Comments/Special Project Notes:

Project should be started once SH146 utility adjustments are under construction or completed. Project construction does not include crossing under SH 146, see CIP W7.



W14

**NASA RD 1 WATER LINE
IMPROVEMENTS**

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: OLD SH 146 INTERCONNECT
 Project Location/Limits: PORT ROAD TO SEABROOK CITY LIMITS
 CIP Number: W16
 Facility Type: WATER

Project Description and Justification

The purpose of this project is to provide an interconnect between the City of Pasadena and the City of Seabrook. This is one of several locations for possible interconnects that will be used for emergency purposes.

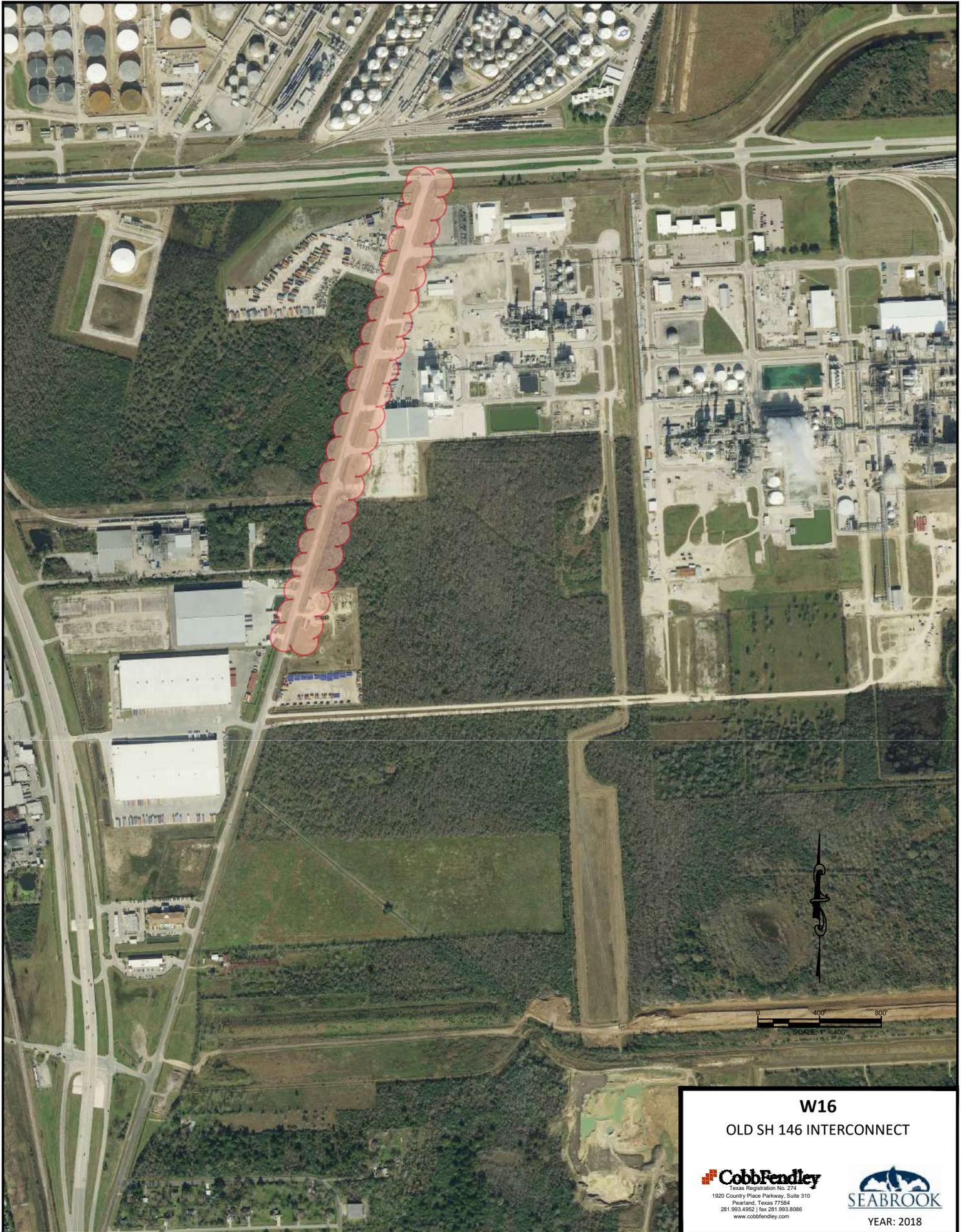
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning			\$ 124,588				\$ 124,588
Land/Easements Acq.							
Construction				\$ 622,938			\$ 622,938
Total Cost	\$ -	\$ -	\$ 124,588	\$ 622,938	\$ -	\$ -	\$ 747,525

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees			\$ 124,588	\$ 622,938			\$ 747,525
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: __Other agency							\$ -
Park Impact Fees							\$ -
Total Funding			\$ 124,588	\$ 622,938	\$ -	\$ -	\$ 747,525

Comments/Special Project Notes:

Alternate water source. 12" interconnect, provides for more balanced water pressure.



W16
OLD SH 146 INTERCONNECT

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY GULLY WATER LINE IMPROVEMENTS
 Project Location/Limits: TODVILLE ROAD BRIDGE CROSSINGS AT PINE GULLY
 CIP Number: W17 - PROJECT 314
 Facility Type: WATER

Project Description and Justification

The purpose of this project is to provide increased water capacity to the water lines crossing at Pine Gully. The entirety of this project has been budgeted to be expensed in FY19 with amendment 2019-06.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 14,542	\$ 14,542					\$ 29,084
Land/Easements Acq.							
Construction	\$ 18,732	\$ 74,999					\$ 93,731
Total Cost	\$ 33,274	\$ 89,541					\$ 122,815

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash	\$ 33,274	\$ 89,541					\$ 122,815
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ HARRIS COUNTY							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 33,274	\$ 89,541	\$ -	\$ -	\$ -	\$ -	\$ 122,815

Comments/Special Project Notes:

Pine Gully Improvements are also included in D1 as the existing water line is tied to the bridge over Pine Gully. The crossings at both Pine Gully and Hester's Gully will require GLO easements.



0 400' 800'
SCALE: 1" = 400'

W17
PINE GULLY WATER LINE
IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: HESTER'S GULLY WATER LINE IMPROVEMENTS
 Project Location/Limits: TODVILLE ROAD BRIDGE CROSSINGS AT HESTER'S GULLY
 CIP Number: W18
 Facility Type: WATER

Project Description and Justification

The purpose of this project is to provide increased water capacity to the water lines crossing at Hester's Gully. Entire project has been budgeted to be expensed in FY19 with amendment 2019-06

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 17,428	\$ 17,428					\$ 34,856
Land/Easements Acq.							\$ -
Construction	\$ 20,975	\$ 88,343					\$ 109,318
Total Cost	\$ 38,403	\$ 105,771	\$ -	\$ -	\$ -	\$ -	\$ 144,174

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash	\$ 38,403	\$ 105,771					\$ 144,174
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ HARRIS COUNTY PG PORTION							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 38,403	\$ 105,771	\$ -	\$ -	\$ -	\$ -	\$ 144,174

Comments/Special Project Notes:

Pine Gully Improvements are also included in D1 as the existing water line is tied to the bridge over Pine Gully. The crossings at both Pine Gully and Hester's Gully will require General Land Office (GLO) easements.



0 200' 400'
SCALE: 1"=200'

W18
HESTER'S GULLY WATER LINE
IMPROVEMENTS

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YEAR: 2018

PROPOSED WASTEWATER PROJECTS

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: EAST MEYER TEMP PARALLEL 12" SAN. SEW. (DIRECTIONAL DRILL)
 Project Location/Limits: SH146 TO NORTH MEYER
 CIP Number: WW1
 Facility Type: WASTEWATER

Project Description and Justification

The existing 18" East Meyer sewer carries all of the City's wastewater from a large area west of SH146. The service area is everything west of SH146 except for Lake Cove and the NASA 1 corridor. The area immediately adjacent to SH146 on the east side from Meyer to the northern City Limits is also connected to this line. The project will provide some additional needed capacity until completion of the first phase of the Pine Gully WWTP.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning			\$ 78,445				\$ 78,445
Land/Easements Acq.							
Construction			\$ 784,451				\$ 784,451
Total Cost	\$ -		\$ 862,896	\$ -	\$ -	\$ -	\$ 862,896

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds			\$ 862,896				\$ 862,896
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ 862,896	\$ -	\$ -	\$ -	\$ 862,896

Comments/Special Project Notes:

The project's need is dictated by the development remaining between Lakeside Drive and SH146, north of Repsdorff. The Current line is near full capacity, so this project is needed to support further development west of SH146.

EAST MEYER TEMPORARY PARALLEL 12" SAN SEW (DIRECTIONAL DRILL)

DRAFT PRELIMINARY LAYOUT OF POSSIBLE LOCATION/DESIGN



PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SHIPYARDS SEWER SERVICE PHASE 1
 Project Location/Limits: WEST SIDE OF JENNINGS CHANNEL TO NORTH SIDE OF SECOND CUT BRIDGE
 CIP Number: WW2
 Facility Type: WASTEWATER

Project Description and Justification

This project would provide the means to provide sewer service to the Shipyards area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 211,388	\$ 211,388
Land/Easements Acq.						\$ 75,000	\$ 75,000
Construction						\$ 1,174,375	\$ 1,174,375
Total Cost						\$ 1,460,763	\$ 1,460,763

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 1,460,763	\$ 1,460,763
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,460,763	\$ 1,460,763

Comments/Special Project Notes:



WW2

SHIPYARDS SEWER SERVICE PHASE I

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SHIPYARDS SEWER SERVICE PHASE 2
 Project Location/Limits: WEST SIDE OF JENNINGS BRIDGE TO WEST AND SOUTHERN EXTENTS OF THE ISLAND
 CIP Number: WW3
 Facility Type: WASTEWATER

Project Description and Justification

This would provide adequate public sewer service to the Shipyards area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 95,000	\$ 95,000
Land/Easements Acq.							\$ -
Construction						\$ 587,500	\$ 587,500
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 682,500	\$ 682,500

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 682,500	\$ 682,500
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 682,500	\$ 682,500

Comments/Special Project Notes:

Project is dependent on WW2 being completed or under construction.



WW3

SHIPYARDS WATER SERVICE PHASE II

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www.cobbhendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: TODVILLE SEWER LINE REPLACEMENT
 Project Location/Limits: BRUMMERHOP STREET TO MEYER ROAD
 CIP Number: WW4-Project 302
 Facility Type: WASTEWATER

Project Description and Justification

The project will replace the leaking sewer system from E Meyer Rd to Brummerhop St with a new HDPE pipe and reconnect all services with PVC pipe. In addition, all manholes will be replaced with precast manholes and corrosive resisitant liner.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 369,700						\$ 369,700
Land/Easements Acq.							\$ -
Construction	\$ 911,547	\$ 78,353					\$ 989,900
Total Cost	\$ 1,281,247	\$ 78,353	\$ -	\$ -	\$ -	\$ -	\$ 1,359,600

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation	\$ 1,281,247	\$ 78,353					\$ 1,359,600
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 1,281,247	\$ 78,353	\$ -	\$ -	\$ -	\$ -	\$ 1,359,600

Comments/Special Project Notes:

Waiting on final inspection.



WW4
TODVILLE SEWER LINE
REPLACEMENT

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WASTEWATER TREATMENT PLANT UPGRADES PHASE 2
 Project Location/Limits: WWTP SITE
 CIP Number: WW6-Project 303
 Facility Type: WASTEWATER

Project Description and Justification

This project includes the replacement of one existing clarifier and coating and replacing piping within the lift station. Replacement of the clarifier is needed since it is reaching the end of its service life. The piping and walls in the lift station are deteriorating.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 138,000						\$ 138,000
Land/Easements Acq.							\$ -
Construction	\$ 689,394						\$ 689,394
Total Cost	\$ 827,394	0	\$ -	\$ -	\$ -	\$ -	\$ 827,394

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation	\$ 827,394						\$ 827,394
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 827,394	\$ -	\$ 827,394				

Comments/Special Project Notes:

Phase 2 was completed 9/10/19



WW6
WASTEWATER TREATMENT
PLANT UPGRADES PHASE II

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: RED BLUFF ROAD SANITARY SEWER EXTENSION
 Project Location/Limits: BAYVIEW DRIVE TO PARK DRIVE
 CIP Number: WW7
 Facility Type: WASTEWATER

Project Description and Justification

This project would extend the gravity sanitary sewer line at Bayview Drive along Red Bluff to Park Drive to provide for future expansion in the area.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 106,800	\$ 106,800
Land/Easements Acq.							\$ -
Construction						\$ 534,000	\$ 534,000
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640,800	\$ 640,800

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 640,800	\$ 640,800
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 640,800	\$ 640,800

Comments/Special Project Notes:



WW7

RED BLUFF ROAD SANITARY
SEWER EXTENSION

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**SEABROOK**

YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: STATE HIGHWAY 146 SANITARY SEWER IMPROVEMENTS
 Project Location/Limits:
 CIP Number: WW8- project 306
 Facility Type: WASTEWATER

Project Description and Justification

The purpose of this project is to relocate the existing wastewater line facilities with the existing TxDOT SH146 ROW to a location outside of the new proposed highway improvements.

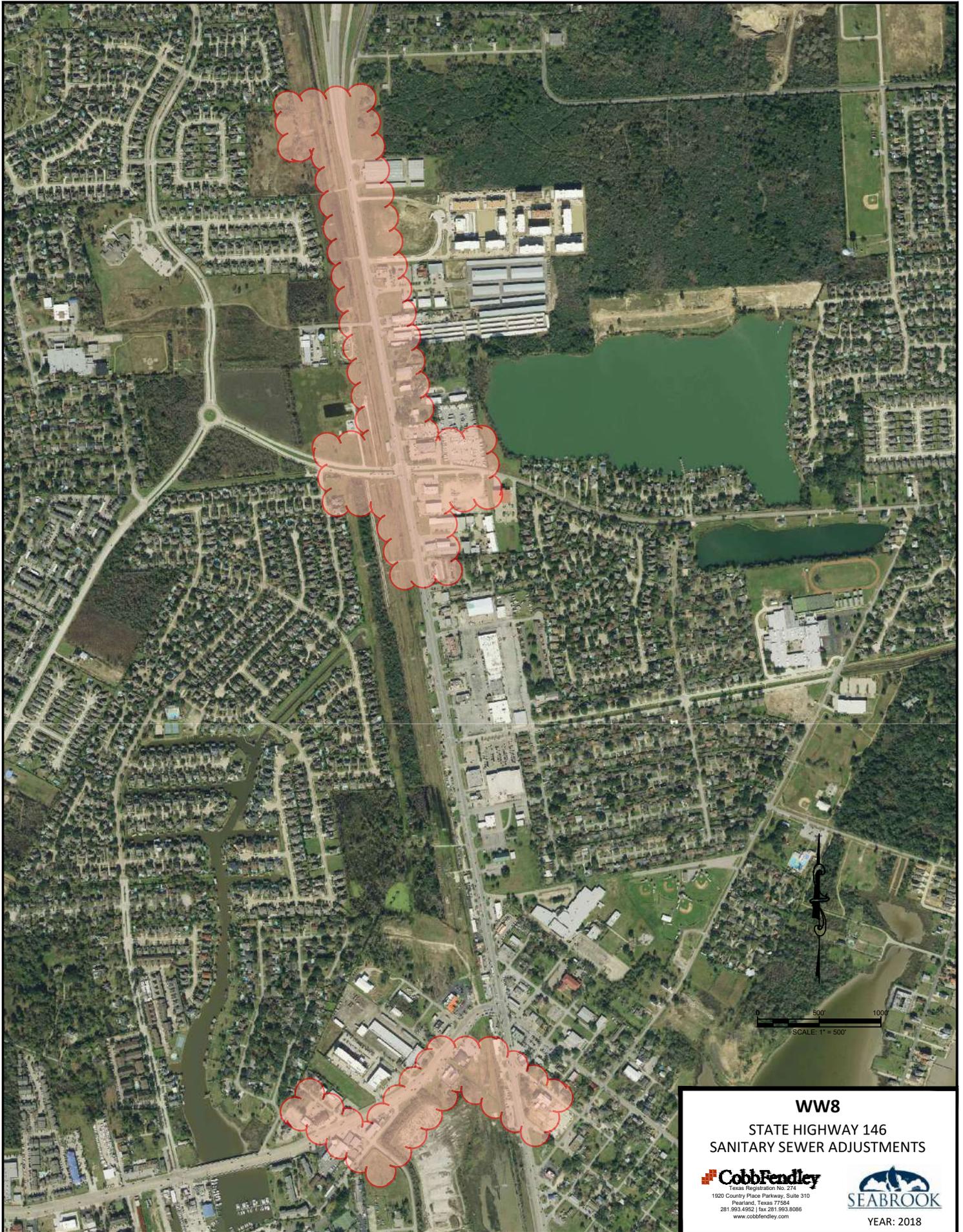
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 231,563	\$ 33,750					\$ 265,313
Land/Easements Acq.							
Construction	\$ 1,960,003						\$ 1,960,003
Total Cost	\$ 2,191,566	\$ 33,750	\$ -	\$ -	\$ -	\$ -	\$ 2,225,316

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash	\$ 231,563	\$ 33,750					\$ 265,313
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ SIB	\$ 1,960,003						\$ 1,960,003
Park Impact Fees							\$ -
Total Funding	\$ 2,191,566	\$ 33,750	\$ -	\$ -	\$ -	\$ -	\$ 2,225,316

Comments/Special Project Notes:

The plan is to included these utility improvements with the TxDOT plans for there contractor to install, instead of the City bidding it out as a separate project. The benefit for this approach is that it will eliminate the unknown timing of each property acquisition where the new utilities will be laid. THE 146 project is currently being split 45% water and 55% Sewer.



WW8
STATE HIGHWAY 146
SANITARY SEWER ADJUSTMENTS

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT PHASE 1A
 Project Location/Limits: NORTH OF THE PUBLIC WORKS FACILITY
 CIP Number: WW9-Project 301
 Facility Type: WASTEWATER

Project Description and Justification

This project is the first phase (Phase 1A) to relocating the City's Waste Water Treatment Plant (WWTP) from Main Street to a site located adjacent to the new Public Works Facility. The City's existing WWTP suffered significant damage during Hurricane Ike due to its location to Galveston Bay.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 619,501	\$ 84,199					\$ 703,700
Land/Easements Acq.							
Construction		\$ 2,595,768	\$ 1,112,472				\$ 3,708,240
Total Cost	\$ 619,501	\$ 2,679,967	\$ 1,112,472	\$ -	\$ -	\$ -	\$ 4,411,940

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation	\$ 619,501	\$ 2,367,439					\$ 2,986,940
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees		\$ 312,528	\$ 1,112,472				\$ 1,425,000
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 619,501	\$ 2,679,967	\$ 1,112,472	\$ -	\$ -	\$ -	\$ 4,411,940

Comments/Special Project Notes:

Applied for grant; status pending.



WW9

**PINE GULLY WASTEWATER
TREATMENT PLANT PHASE 1A**

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT PHASE 1B
 Project Location/Limits: NORTH OF THE PUBLIC WORKS FACILITY
 CIP Number: WW10
 Facility Type: WASTEWATER

Project Description and Justification

This project is Phase 1B in relocating the City's Waste Water Treatment Plant (WWTP) from Main Street to a site located adjacent to the new Public Works Facility. Sewage from areas served by LS 11 and LS 14 will be conveyed to the proposed WWTP. Force mains from LS 11 and 14 will tie into the existing 12 inch force main on SH 146. The remaining force main to the manhole on East Meyer Avenue will be plugged and abandoned. WWTP will have capacity to treat 0.50 MGD.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 640,000	\$ 640,000
Land/Easements Acq.							
Construction						\$ 3,591,250	\$ 3,591,250
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,231,250	\$ 4,231,250

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant						\$ 4,231,250	\$ 4,231,250
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,231,250	\$ 4,231,250

Comments/Special Project Notes:

This project is one five phases (1A, 1B, 2, 3, 4). This phase will provide an additional 0.25 MGD of capacity to the plant and bring the total to 0.50 MGD.



WW10

PINE GULLY WASTEWATER TREATMENT PLANT PHASE 1B

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT PHASE 2
 Project Location/Limits: NORTH OF THE PUBLIC WORKS FACILITY
 CIP Number: WW11
 Facility Type: WASTEWATER

Project Description and Justification

This project is Phase 2 in relocating the City's Waste Water Treatment Plant (WWTP) from Main Street to a site located adjacent to the new Public Works Facility. Sewage from areas served by LS 4 will be conveyed to the proposed WWTP. Proposed 8 inch force main will convey flow from LS 4 to WWTP. A lift station at the WWTP is proposed for this phase. WWTP will have capacity to treat 1.25 MGD.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 3,982,640	\$ 3,982,640
Land/Easements Acq.							\$ -
Construction						\$ 19,913,200	\$ 19,913,200
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,895,840	\$ 23,895,840

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant						\$ 23,895,840	\$ 23,895,840
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,895,840	\$ 23,895,840

Comments/Special Project Notes:

This project is one five phases (1A, 1B, 2, 3, 4). This phase will provide an additional 0.75 MGD of capacity to the plant and bring the total to 1.25 MGD.



WW11
PINE GULLY WASTEWATER
TREATMENT PLANT PHASE 2

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT PHASE 3
 Project Location/Limits: NORTH OF THE PUBLIC WORKS FACILITY
 CIP Number: WW12
 Facility Type: WASTEWATER

Project Description and Justification

This project is Phase 3 in relocating the City’s Waste Water Treatment Plant (WWTP) from Main Street to a site located adjacent to the new Public Works Facility. Sewage from areas served by areas that ultimately gravity flow to the existing WWTP will be conveyed to the proposed WWTP. Force mains from the WWTP LS will require a new force main or combination of force main and gravity sewer to convey the sewage to the new WWTP. For preliminary cost estimating a 12 inch force main was used. WWTP will have capacity to treat 2.50 MGD.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 4,149,600	\$ 4,149,600
Land/Easements Acq.							\$ -
Construction						\$ 20,748,000	\$ 20,748,000
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,897,600	\$ 24,897,600

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant						\$ 24,897,600	\$ 24,897,600
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,897,600	\$ 24,897,600

Comments/Special Project Notes:

This project is one five phases (1A, 1B, 2, 3, 4). This phase will provide an additional 1.25 MGD of capacity to the plant and bring the total to 2.5 MGD.



WW12
PINE GULLY WASTEWATER
TREATMENT PLANT PHASE 3

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT PHASE 4
 Project Location/Limits: WWTP FACILITY ON MAIN STREET
 CIP Number: WW13
 Facility Type: WASTEWATER

Project Description and Justification

This project is Phase 4 in relocating the City's Waste Water Treatment Plant (WWTP) from Main Street to a site located adjacent to the new Public Works Facility. This project is to demolish and decommission the facilities at the Main Street WWTP, except for the LS.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 111,150	\$ 111,150
Land/Easements Acq.							\$ -
Construction						\$ 617,500	\$ 617,500
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 728,650	\$ 728,650

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant						\$ 728,650	\$ 728,650
Fun 28 Gen CIP							\$ -
TBD							
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 728,650	\$ 728,650

Comments/Special Project Notes:

This project is one five phases (1A, 1B, 2, 3, 4).



WW13
PINE GULLY WASTEWATER
TREATMENT PLANT PHASE 4

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YEAR: 2018

PROPOSED DRAINAGE PROJECTS

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: TODVILLE ROAD BRIDGE
 Project Location/Limits: INTERSECTION OF TODVILLE ROAD AND PINE GULLY
 CIP Number: D1
 Facility Type: DRAINAGE

Project Description and Justification

The purpose of this project is to replace the existing Todville Road Bridge with a longer elevated span. This will provide for additional stormwater runoff to pass through. When the City expanded the width of Pine Gully from Todville to the Fire Training Grounds to provide for 100-yr stormwater runoff in the area, the bridge has since been a bottleneck (restrictor) for stormwater reaching Galveston Bay.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning			\$ 627,318				\$ 627,318
Land/Easements Acq.							
Construction			\$ 3,485,100				\$ 3,485,100
Total Cost	\$ -	\$ -	\$ 4,112,418	\$ -	\$ -	\$ -	\$ 4,112,418

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							
Other: ___ Harris County			\$ 4,112,418				\$ 4,112,418
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ 4,112,418	\$ -	\$ -	\$ -	\$ 4,112,418

Comments/Special Project Notes:

The crossing is based on the proposed ultimate cross section of Todville Road (Master Thoroughfare Plan) and the ultimate width of Pine Gully. As part of this project, Lift Station No. 1 (LS#1) will need to be relocated and the water and sewer line along the bridge will be lowered under the Gully. It is planned to relocate LS#1 on adjacent property owned by the City. Currently Todville Road is a Harris County Roadway and Pine Gully is a Harris County Flood Control Channel. Any improvements would be under each of thier jurisdictions, as well as the United States Army Corps of Engineers (USACE). A GLO Easement would also be required.



D1
TODVILLE ROAD BRIDGE

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: EL MAR DITCH
 Project Location/Limits: FROM BAHAMA DRIVE TO GALVESTON BAY
 CIP Number: D2
 Facility Type: DRAINAGE

Project Description and Justification

This ditch is in the center of El Mar Lane and is too shallow to provide proper drainage to the subdivision area or the commercial area along SH146 that is connected to it. The City has attempted to improve the drainage within the Miramar Subdivision several times, but the depth of this channel has precluded reaching a satisfactory outcome. The intent would be to provide a 100-year storm capacity for the SH146 & Miramar area. This is a 50/50 Harris County and City project.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							
Land/Easements Acq.							
Construction		\$ 3,905,527					\$ 3,905,527
Total Cost	\$ -	\$ 3,905,527	\$ -	\$ -	\$ -		\$ 3,905,527

Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds		\$ 2,000,000					\$ 2,000,000
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fund 28 Gen CIP							\$ -
TBD							
Other:Harris County(Fund/Agency)		\$ 1,905,527					\$ 1,905,527
Park Impact Fees							
Total Funding	\$ -	\$ 3,905,527	\$ -	\$ -	\$ -	\$ -	\$ 3,905,527

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: RED BLUFF ROAD DRAINAGE CHANNEL
 Project Location/Limits: SOUTHERN CURVE IN RED BLUFF ROAD TO THE WESTERN BOUNDARY OF THE FIRE TRAINING FACILITY
 CIP Number: D3
 Facility Type: DRAINAGE

Project Description and Justification

This project would extend a new drainage channel along Red Bluff Road through Lazarri property and others to provide an outfall drainage system for most of the undeveloped property in the northern part of the City. This project would eliminate the need for properties within its service area from the need to set aside land for stormwater detention.

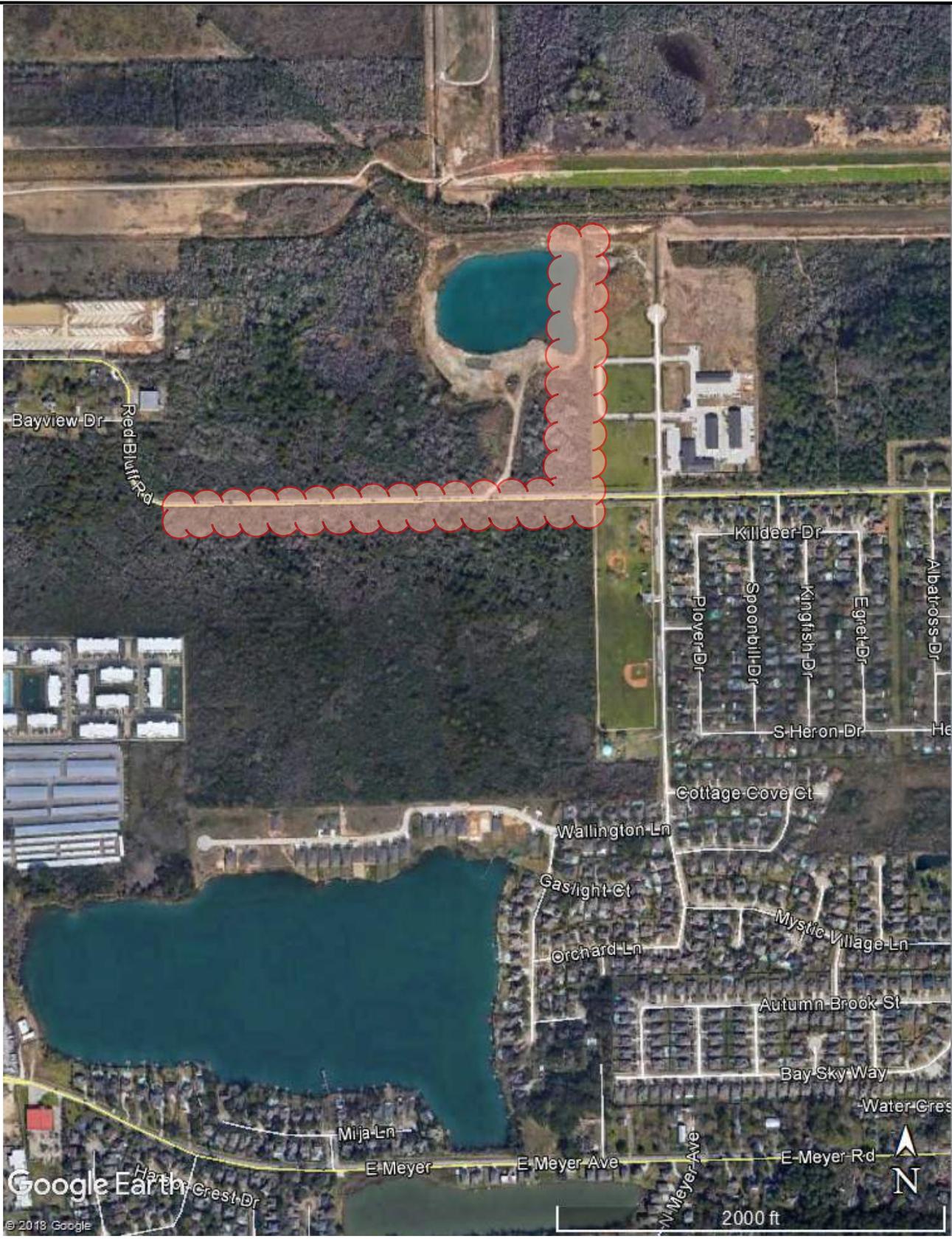
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 450,000	\$ 450,000
Land/Easements Acq.						\$ 7,000,000	\$ 7,000,000
Construction						\$ 2,122,500	\$ 2,122,500
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,572,500	\$ 9,572,500

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution						\$ 9,572,500	\$ 9,572,500
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,572,500	\$ 9,572,500

Comments/Special Project Notes:

The construction cost for the channel excavation could be considerably less than the amount shown, if the City was able to sell the fill material for fill else where. This plan could also be done with a box culvert system, but the construction cost would be higher. Development in the area would drive this project. The Land Acquisition cost could be removed or reduced if the developer of the adjacent properties is willing to donate the entire or a portion of the drainage right of way needed to drain those tracts. (Est 400,000 sf of property acquisition)



Google Earth
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D3
RED BLUFF ROAD
DRAINAGE CHANNEL



DATE: MAY 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WILDLIFE PARK DRAINAGE (HCFCF F220-02-00)
 Project Location/Limits: RED BLUFF ROAD TO PINE GULLY
 CIP Number: D4
 Facility Type: DRAINAGE

Project Description and Justification

This project would be to widen the existing HCFCF Channel F220-02-00 to provide 100-year flow from the box culverts at Red Bluff to Pine Gully. In 2012, Harris County installed 2- 7-ft x 5-ft reinforced concrete box culverts to improve the stormwater runoff coming from the Baybrook Subdivision. The County installed a restrictor in the box culverts until the downstream channel is improved to handle the additional flow. This is the final piece to that project.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 114,095	\$ 114,095
Land/Easements Acq.							\$ -
Construction						\$ 671,148	\$ 671,148
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 785,243	\$ 785,243

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds						\$ 671,148	\$ 671,148
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees						\$ 114,095	\$ 114,095
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 785,243	\$ 785,243

Comments/Special Project Notes:



D4
WILDLIFE PARK
DRAINAGE EXPANSION

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYBROOK SECTION 1 - DRAINAGE IMPROVEMENTS
 Project Location/Limits: BAYBROOK SUBDIVISION
 CIP Number: D5
 Facility Type: DRAINAGE

Project Description and Justification

The ditches adjacent to the Baybrook Subdivision Section 1 have the potential to overgrow with brush, hindering the flow of water during rain events. This project would increase the channel size, within current limits, and slope pave the channel to provide for ease of maintenance.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 181,224	\$ 181,224
Land/Easements Acq.							\$ -
Construction						\$ 1,006,800	\$ 1,006,800
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,188,024	\$ 1,188,024

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds						\$ 1,188,024	\$ 1,188,024
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,188,024	\$ 1,188,024

Comments/Special Project Notes:

Project may require environmental permitting, due to outfall along Clopper Street.



D5
BAYBROOK SECTION 1
DRAINAGE IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: LOWER PINE GULLY DRAINAGE IMPROVEMENTS
 Project Location/Limits: PINE GULLY AND PINE GULLY TRIBUTARY
 CIP Number: D6
 Facility Type: DRAINAGE

Project Description and Justification

The project will consist of expanding Pine Gully Channel and Pine Gully Tributary to provide an increase in hydraulic capacity for future development in the surrounding area. Pine Gully Road Bridge will be replaced with prefabricated concrete bridges on Pine Gully Tributary. The pedestrian bridge will also be replaced on Pine Gully Tributary.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 518,499	\$ 518,499
Land/Easements Acq.						\$ 200,000	\$ 200,000
Construction						\$ 2,073,994	\$ 2,073,994
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,792,493	\$ 2,792,493

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant						\$ 2,792,493	\$ 2,792,493
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: __Harris_ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,792,493	\$ 2,792,493

Comments/Special Project Notes:

Engineering includes LSLS coastal boundary surveys for permitting with the Texas General Land Office, drainage study, environmental investigation and permitting with USACE. Additional R.O.W. for Tributary from Pine Gully North to Seabrook City Limit will be needed. Baywood Drive Bridge (D10) can be done concurrently or as a separate project on Pine Gully tributary.



D6
LOWER PINE GULLY
DRAINAGE IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SURF OAKS DRIVE
 Project Location/Limits: SURF OAKS DRIVE FROM TODVILLE RD TO GALVESTON BAY
 CIP Number: D8
 Facility Type: DRAINAGE

Project Description and Justification

This project would provide an additional drainage outfall for the street via Galveston Bay. Other drainage improvements (ex. ditch expansion, culverts, inlets, etc.) will be included to carry the additional flow to the new outfall. Look at possible funding from Fund 28

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 65,000	\$ 65,000
Land/Easements Acq.							\$ -
Construction						\$ 280,800	\$ 280,800
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,800	\$ 345,800

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP						\$ 345,800	\$ 345,800
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 345,800	\$ 345,800

Comments/Special Project Notes:

Surf Oaks Drive is a public street as of 2014. Improvements are needed to provide better drainage and access during specific rain storm events. Environmental permit will be needed to add outfall into Galveston Bay, included in engineering/planning cost.



0 400' 800'
SCALE: 1" = 400'

D8

SURF OAKS DRIVE

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: DU LAC TRACE, WATER WAY OUTFALL
 Project Location/Limits: OUTFALLS LOCATED ON DU LAC TRACE, WATER WAY
 CIP Number: D9
 Facility Type: DRAINAGE

Project Description and Justification

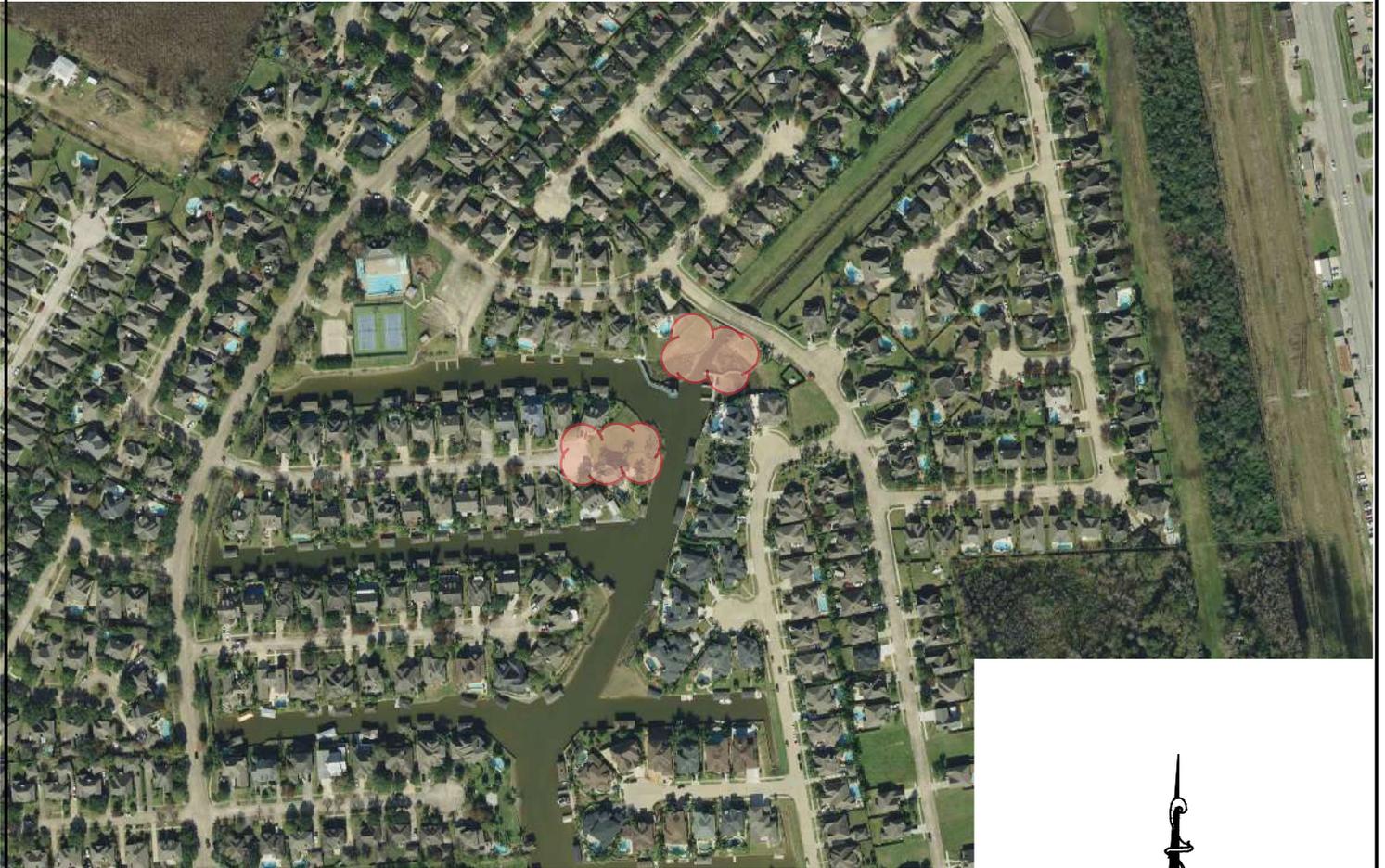
This project(s) is for improvements to existing outfall structures that are failing due to continued erosion and wave action. The Seascape outfall has been completed with Du Lac Trace and Water Way remaining.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning	\$ 29,400	\$ 13,500					\$ 42,900
Land/Easements Acq.							
Construction		\$ 145,625					\$ 145,625
Total Cost	\$ 29,400	\$ 159,125	\$ -	\$ -	\$ -	\$ -	\$ 188,525

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP	\$ 29,400	\$ 159,125					\$ 188,525
TBD							
Other: ___ fund							\$ -
Park Impact Fees							
Total Funding	\$ 29,400	\$ 159,125	\$ -	\$ -	\$ -	\$ -	\$ 188,525

Comments/Special Project Notes:



D9
DU LAC TRAC & WATER WAY
OUTFALL



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYWOOD BRIDGE IMPROVEMENTS
 Project Location/Limits: BAYWOOD DR AND PINE GULLY TRIBUTARY
 CIP Number: D10
 Facility Type: DRAINAGE

Project Description and Justification

Baywood Drive Bridge will be replaced with prefabricated concrete bridges on Pine Gully Tributary.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning						\$ 185,000	\$ 185,000
Land/Easements Acq.						\$ 200,000	\$ 200,000
Construction						\$ 435,500	\$ 435,500
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 820,500	\$ 820,500

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							
Other: ___harris county						\$ 820,500	\$ 820,500
Park Impact Fees							
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 820,500	\$ 820,500

Comments/Special Project Notes:

Engineering includes LSLs coastal boundary surveys for permitting with the Texas General Land Office, drainage study, environmental investigation and permitting with USACE. Additional R.O.W. for Tributary from Pine Gully North to Seabrook City Limit will be needed.



D10
BAYWOOD BRIDGE
IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SEASCAPE SUBDIVISON HCFCD BOND E-07
 Project Location/Limits: SEASCAPE SECTION 2 - WEST OF TODVILLE AND SOUTH OF REDBLUFF
 CIP Number: D11
 Facility Type: DRAINAGE

Project Description and Justification

2018 HCFCD Bond project to modify the Red Bluff Road drainage crossing to F220-02-00 tributary, perform detailed study of the storm sewer system in Seascape Subdivision Sec.2 and make improvements based on the study.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction							\$ -
Total Cost	\$ 49,880	\$ 1,190,120	\$ -	\$ -	\$ -	\$ -	\$ 1,240,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds		\$ 620,000					\$ 620,000
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___harris county	\$ 49,880	\$ 570,120	\$ -	\$ -			\$ 620,000
Park Impact Fees							\$ -
Total Funding	\$ 49,880	\$ 1,190,120	\$ -	\$ -	\$ -	\$ -	\$ 1,240,000

Comments/Special Project Notes:

Project being overseen by Harris County.



- LEGEND**
- EXISTING STORM SEWER ALIGNMENT
 - EXTREME STORM EVENT PONDING AREAS
 - PROPOSED FEATURES
 - A 60" RCP STORM SEWER
 - B 24" RCP STORM SEWER
 - C 48" RCP STORM SEWER
 - D 36" CMP OUTFALL
 - E CONVERT TO RCP AND ADD SLOPE PAVING WITH CURB OPENINGS FOR OVERFLOW
 - FLOW PATH

PROJECT FEATURES



February 2019

www.hcfd.org/2018bondprogram

EXHIBIT 4



D11
 BAYBROOK SUBDIVISION
 HCFCF BOND E-07

SEABROOK
 YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYBROOK SUBDIVISION HCFCD BOND E-07
 Project Location/Limits: BAYBROOK SUBDIVISION SEC. 3
 CIP Number: D12
 Facility Type: DRAINAGE

Project Description and Justification

Harris County bond project to reduce flooding risk in the subdivision for a 100-yr rain event. Project involves adding 60" RCP from Park Dr to Pine Gully tributary on south ditch of Red Bluff Road, 24" RCP storm tie in to 60" RCP on Red Bluff from Plover Dr., 48" RCP from Coronado St to Pine Gully tributary on south ditch of Red Bluff Road, upsizing the Killdeer outfall to 36" CMP, and converting ourfalls along Heron to RCP and adding slope paving with curb openings for street drainage overflow.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction							\$ -
Total Cost	\$ 38,000	\$ 960,000	\$ -	\$ -	\$ -	\$ -	\$ 998,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds		\$ 499,000					\$ 499,000
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___harris county	\$ 38,000	\$ 461,000					\$ 499,000
Park Impact Fees							\$ -
Total Funding	\$ 38,000	\$ 960,000	\$ -	\$ -	\$ -	\$ -	\$ 998,000

Comments/Special Project Notes:

Project being overseen by Harris County.

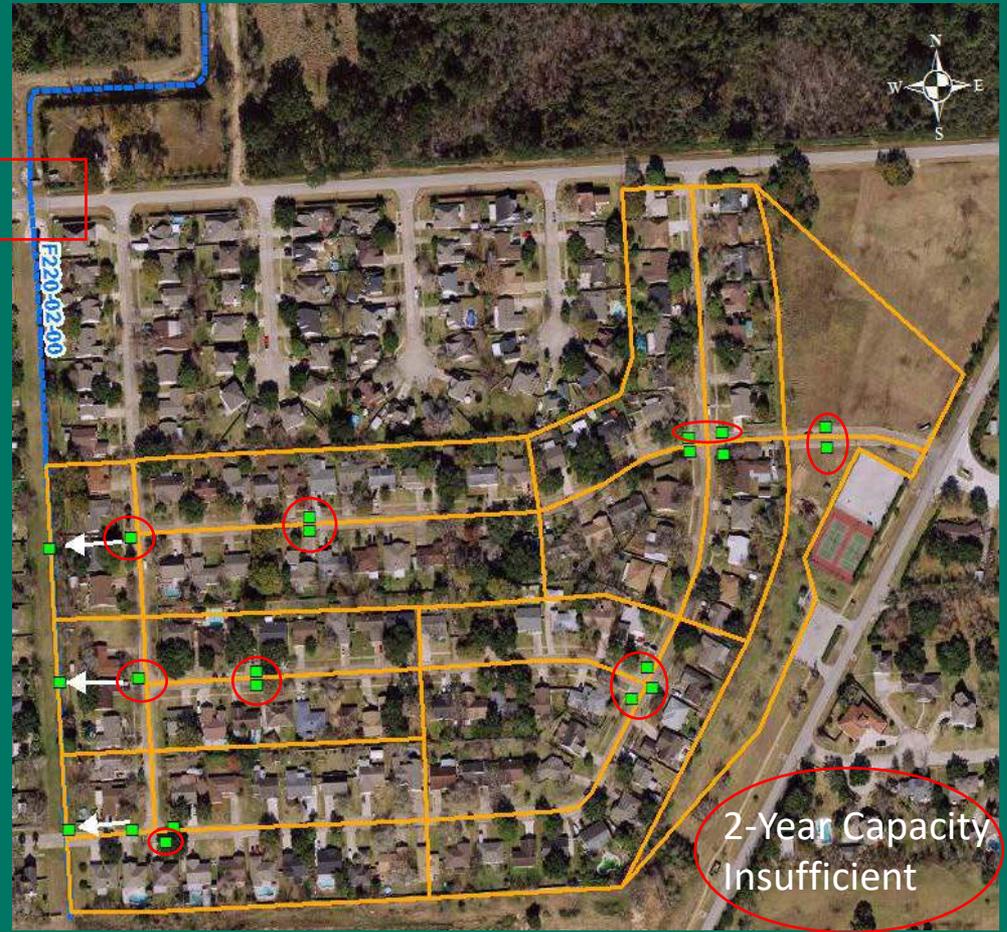
Storm Sewer System

- ❖ Increase F220-02-00 Tributary Red Bluff Crossing.



- ❖ Inlet Replacements

- ❖ Detailed Study of Storm Sewer System with Survey



PROJECT PROGRESS & COMMUNITY ENGAGEMENT

2018 | BOND PROGRAM

D12

SEASCAPE SUBDIVISION
HCFC D BOND E-07



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: MIRAMAR SUBDIVISION STREET AND STORM IMPROVEMENTS
 Project Location/Limits: MIRAMAR SUB
 CIP Number: D13
 Facility Type: DRAINAGE/STREETS

Project Description and Justification

Harris County bond project to reduce storm flooding risk in the subdivision for a 100-yr rain event.

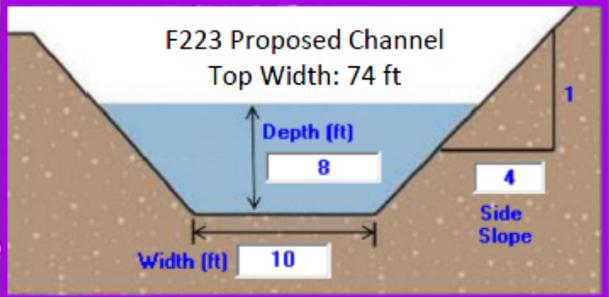
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction						\$ 7,300,759	\$ 7,300,759
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,300,759	\$ 7,300,759

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds						\$ 3,650,380	\$ 3,650,380
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 3,650,380	\$ 3,650,380
Other: ___harris county							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,300,760	\$ 7,300,760



Disconnect from El Mar



Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**D13
MIRAMAR
SUBDIVISION
STREET AND STORM
IMPROVEMENTS**

HCFC D BOND E-07



YEAR: 2019

PROPOSED STREET PROJECTS

FY20 – FY24+



S3
BAYBROOK SECTION 1
BROOKWOOD CT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SEASCAPE II STREET IMPROVEMENTS
 Project Location/Limits: ALL STREETS (W. FLAMINGO, N. HERON, ALBATROSS, SANDPIPER, ALLEGRO, BEEHCRAFT, CORONADO)
 CIP Number: S8
 Facility Type: STREET

Project Description and Justification

This project is to replace all of the concrete paved streets, sidewalks, and driveways within the Seascape II subdivision. These roads were paved in the early 1960s and late 1970s.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning				\$ 735,642			\$ 735,642
Land/Easements Acq.							
Construction				\$ 1,839,106	\$ 1,839,106		\$ 3,678,212
Total Cost	\$ -	\$ -	\$ -	\$ 2,574,748	\$ 1,839,106	\$ -	\$ 4,413,855

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds				\$ 2,574,748	\$ 1,839,106		\$ 4,413,855
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ 2,574,748	\$ 1,839,106	\$ -	\$ 4,413,855

Comments/Special Project Notes:

This project could be spilt into multiple phases if necessary.



0 500' 1000'
SCALE: 1" = 500'

S8
SEASCAPE II STREET
IMPROVEMENTS

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYBROOK SECTION III STREET IMPROVEMENTS
 Project Location/Limits: ALL STREETS (KILLDER, SOUTH HERON, EGRET, KINGFISH, SPOONBILL, PLOVER, SANDCRANE, SEABIRD)
 CIP Number: S9
 Facility Type: STREET

Project Description and Justification

This project is to replace all of the concrete paved streets, sidewalks, and driveways within Baybrook Subdivision Section III. These roads were paved back in the late 1970s.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning					\$ 657,519		\$ 657,519
Land/Easements Acq.							
Construction					\$ 821,899	\$ 2,465,696	\$ 3,287,595
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ 1,479,418	\$ 2,465,696	\$ 3,945,114

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds					\$ 1,479,418	\$ 2,465,696	\$ 3,945,114
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ 1,479,418	\$ 2,465,696	\$ 3,945,114

Comments/Special Project Notes:

This project may be spilt into multiple phases if necessary.



0 500' 1000'
SCALE: 1" = 500'

S9
BAYBROOK SECTION III STREET
IMPROVEMENTS

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YEAR: 2018

PROPOSED FACILITY PROJECTS

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM
 Project Location/Limits: CITY OWNED FACILITIES
 CIP Number: FAC1
 Facility Type: COMPUTERS AND SOFTWARE

Project Description and Justification

The existing SCADA system monitors and controls the City's lift stations, water plants, and wastewater plant. The system has reached the end of its useful life. Project will include master computer station, remote terminal units, software, licensing, cellular based communications, programmable controllers for 3 Water Plants, 21 Lift Stations, 2 Wastewater Plants, and 2 Surface Water Delivery Stations.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction	\$ 275,522						\$ 275,522
Total Cost	\$ 275,522	\$ -	\$ 275,522				

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation	\$ 275,522						\$ 275,522
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ 275,522	\$ -	\$ 275,522				

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SMART WATER METER CONVERSION
 Project Location/Limits: CITY OWNED FACILITIES
 CIP Number: FAC6
 Facility Type: WATER METER

Project Description and Justification

Neptune AMI water meter conversion program will upgrade manual read water meters to AMI type installations. Project will also include the implementation of behavior-based software – such as WaterSmart, DropCounter, or other providers – using the data provided by the AMI system. This software will help customers identify leaks on the customer side of the meter, and will also promote municipal conservation measures appropriate to their homes or facilities. This project includes replacing approximately 50% of the City's water meters and the remaining 50% will be retrofitted.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							
Land/Easements Acq.							
Construction						\$ 2,162,556	\$ 2,162,556
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,162,556	\$ 2,162,556

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 2,162,556	\$ 2,162,556
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,162,556	\$ 2,162,556

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PUBLIC SAFETY INSPECTION AREA (SH 146)

Project Location/Limits: North of Red Bluff underpass turnaround at SH 146

CIP Number: FAC7

Facility Type: PARKING LOT

Project Description and Justification

This parking area will allow public safety officers to inspect commercial vehicles for compliance in an area that will allow vehicles to safely park outside of traffic lanes.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning		\$ 54,382					\$ 54,382
Land/Easements Acq.							
Construction		\$ 271,912					\$ 271,912
Total Cost	\$ -	\$ 326,294	\$ -	\$ -	\$ -	\$ -	\$ 326,294

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP		\$ 326,294					\$ 326,294
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 326,294	\$ -	\$ -	\$ -	\$ -	\$ 326,294

Comments/Special Project Notes:

The proposed area is located in TxDOT ROW and will require concurrence from TxDOT to perform the work.



FAC7
PUBLIC SAFETY INSPECTION AREA
(SH 146)

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CITY HALL COUNCIL CHAMBERS/COURT CHAMBERS SECURITY REMODEL
 Project Location/Limits: CITY HALL COUNCIL CHAMBERS/COURT CHAMBERS
 CIP Number: FAC9
 Facility Type: CITY HALL

Project Description and Justification

Remodel City Hall Council Chambers/Court Chambers by adding an emergency means of egress door to be located on

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning		\$ 2,500					\$ 2,500
Land/Easements Acq.							\$ -
Construction		\$ 35,000					\$ 35,000
Total Cost	\$ -	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ 37,500

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)		\$ 37,500					\$ 37,500
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 37,500	\$ -	\$ -	\$ -	\$ -	\$ 37,500

Comments/Special Project Notes:

Funded with Court Security Fund



FAC9
CITY HALL COUNCIL CHAMBERS/COURT
CHAMBERS SECURITY REMODEL

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**SEABROOK**

YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WATER WELLS FIBER CONDUIT
 Project Location/Limits: EAST MEYER FIRE STATION TO WATER WELLS #1 & #2
 CIP Number: FAC10
 Facility Type: FIBER CONDUIT

Project Description and Justification

The project will consist of an interconnect fiber network within conduit running from the fire station at 1850 East Meyer under SH146 along Repsdorff and connect to both Water Wells #1 & #2.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction		\$ 114,176	\$ -	\$ -			\$ 114,176
Total Cost	\$ -	\$ 114,176	\$ -	\$ -	\$ -	\$ -	\$ 114,176

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds		\$ 51,000					\$ 51,000
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP		\$ 93,176					\$ 93,176
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 144,176	\$ -	\$ -	\$ -	\$ -	\$ 144,176

Comments/Special Project Notes:



FAC10

WATER WELLS FIBER CONDUIT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WATER WELLS FIBER CONDUIT
 Project Location/Limits: WATER WELL #2 TO ADDITIONAL WATER FACILITIES
 CIP Number: FAC11
 Facility Type: FIBER CONDUIT

Project Description and Justification

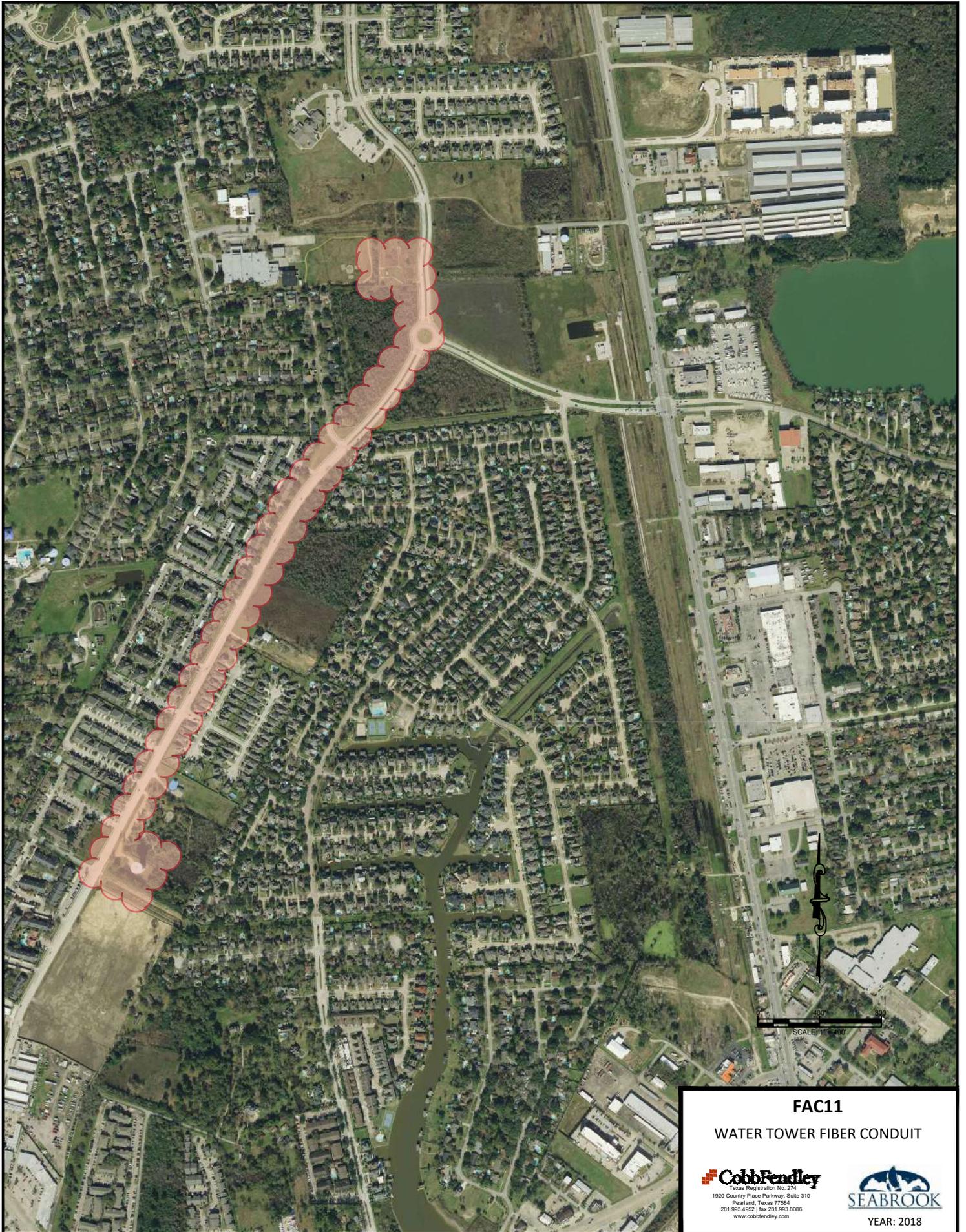
The project will consist of an interconnect fiber network within conduit running from Water Well 2 to additional water facilities.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction		\$ 230,825					\$ 230,825
Total Cost	\$ -	\$ 230,825	\$ -	\$ -	\$ -	\$ -	\$ 230,825

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation		\$ 170,825					\$ 170,825
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP		\$ 60,000					\$ 60,000
TBD							\$ -
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 230,825	\$ -	\$ -	\$ -	\$ -	\$ 230,825

Comments/Special Project Notes:



FAC11

WATER TOWER FIBER CONDUIT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SCADA SYSTEM UPGRADES WASTE WATER
 Project Location/Limits: CITY OWNED FACILITIES
 CIP Number: FAC12
 Facility Type: COMPUTERS AND SOFTWARE

Project Description and Justification

The existing SCADA system monitors and controls the City's lift stations, water plants, and wastewater plant. The system has reached the end of its useful life. Project will include remote terminal units, software, licensing, cellular based communications, programmable controllers for 21 Lift Stations and 2 Wastewater Plants.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 550,000	\$ 550,000
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000

Opinion of Probable Construction Cost Estimate						
Description	Quantity	Unit	Unit Price		Total Cost	
Mobilization	1	LS	\$	24,000.00	\$	24,000.00
Master Station computer and software with	1	LS	\$	50,000.00	\$	50,000.00
Lift Station remote terminal units, telemetry,	21	EA	\$	15,000.00	\$	315,000.00
Water Plant remote terminal units, telemetry,	3	EA	\$	25,000.00	\$	75,000.00
Surface Water Delivery Station remote terminal	2	EA	\$	15,000.00	\$	30,000.00
Wastewater Plant remote terminal units,	2	EA	\$	35,000.00	\$	70,000.00
Cellular service set up with modem	29	EA	\$	200.00	\$	5,800.00
				Project Contingencies (25%)	\$	142,450.00
Construction Total					\$	712,250

Comments/Special Project Notes:

Master Station can be installed in building of the City's choice. Cell phone service is estimated to be \$45/month per site.

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: FIRE STATION A/C REPLACEMENT
 Project Location/Limits: CITY OWNED FACILITIES
 CIP Number: FAC13
 Facility Type: EQUIPMENT

Project Description and Justification

The four original air conditioning units at the fire station are failing and need continuous maintenance. The operational life of the units has expired and a new unit/system is needed.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction		\$ 160,000					\$ 160,000
Total Cost	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ 160,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP		\$160,000					\$ 160,000
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 160,000	\$ -	\$ -	\$ -	\$ -	\$ 160,000

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: FIRE STATION WATER HEATER REPLACEMENT
 Project Location/Limits: CITY OWNED FACILITIES
 CIP Number: FAC14
 Facility Type: EQUIPMENT

Project Description and Justification

The water heater / boiler at the fire station is failing. The operational life of the unit has expired and a new unit is needed.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Engineering/Planning							\$ -
Land/Easements Acq.							\$ -
Construction		\$ 31,250					\$ 31,250
Total Cost	\$ -	\$ 31,250	\$ -	\$ -	\$ -	\$ -	\$ 31,250

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP		\$ 31,250					\$ 31,250
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 31,250	\$ -	\$ -	\$ -	\$ -	\$ 31,250

Comments/Special Project Notes:

PROPOSED PARKS PROJECTS

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY HIKE AND BIKE TRAIL

Project Location/Limits: OLD HIGHWAY 146 TO PARK DRIVE

CIP Number: P1

Facility Type: PARK

Project Description and Justification

This project consists of approximately 4,500 linear feet of decomposed granite and two bridge crossings over Pine Gully for a hike and bike trail.

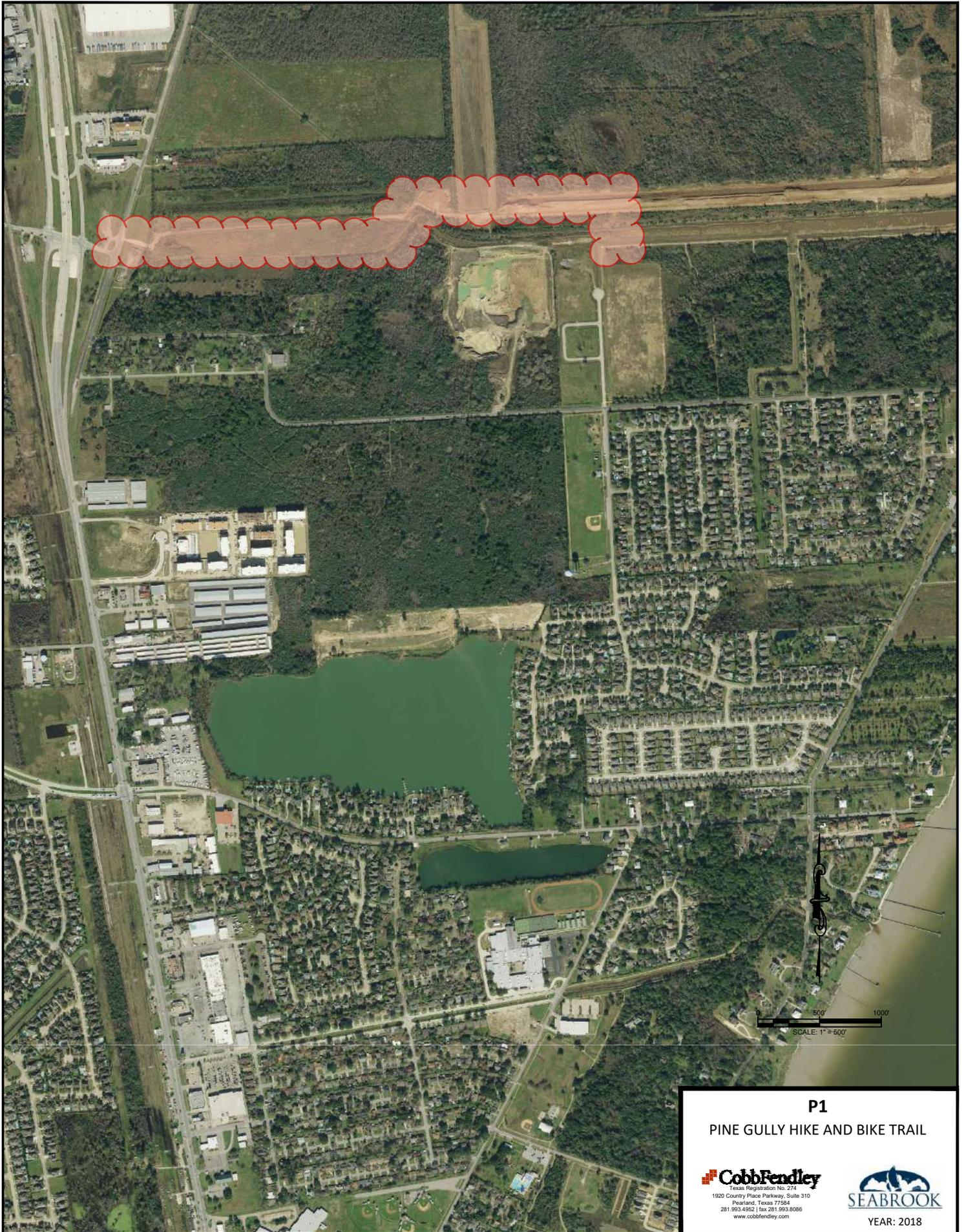
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental			\$ 10,000				\$ 10,000
Engineering/Planning							\$ -
Land/Easements Acq.			\$ 50,000				\$ 50,000
Construction				\$ 749,400			\$ 749,400
Total Cost	\$ -	\$ -	\$ 60,000	\$ 749,400	\$ -	\$ -	\$ 809,400

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant TPWG			\$ 60,000	\$ 749,400			\$ 809,400
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ 60,000	\$ 749,400	\$ -	\$ -	\$ 809,400

Comments/Special Project Notes:

The plan is for city staff to perform the trail construction. The design and construction of the walk bridge would be outside of city staff's scope.



0 500' 1000'
SCALE: 1" = 500'

P1
PINE GULLY HIKE AND BIKE TRAIL

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: E MEYER SAFE ROUTES TO SCHOOL SIDEWALK
 Project Location/Limits: N Meyer north of E Meyer to N Meyer and El Mar Intersection
 CIP Number: P2a
 Facility Type: PARK

Project Description and Justification

This project consists of approximately 1,400 linear feet of roadside walking path along the west right-of-way of N Meyer north of E Meyer; the north right-of-way of E Meyer; and the east right-of-way of N Meyer to the El Mar intersection.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental		\$ 15,000					\$ 15,000
Engineering/Planning		\$ 140,030					\$ 140,030
Land/Easements Acq.							\$ -
Construction			\$ 560,137				\$ 560,137
Total Cost	\$ -	\$ 155,030	\$ 560,137	\$ -	\$ -	\$ -	\$ 715,167

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: _TXDOT_ (Fund/Agency)		\$ 155,030	\$ 560,137				\$ 715,167
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 155,030	\$ 560,137	\$ -	\$ -	\$ -	\$ 715,167

Comments/Special Project Notes:



P2a
E MEYER SAFE ROUTES TO SCHOOL
SIDEWALK



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: E MEYER HIKE AND BIKE TRAIL

Project Location/Limits: North side of E Meyer from north N Meyer to SH 146

CIP Number: P2b

Facility Type: PARK

Project Description and Justification

This project consists of approximately 4,200 linear feet of roadside walking path along north ROW of E Meyer from north N Meyer to SH 146

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Engineering/Planning						\$ 51,278	\$ 51,278
Land/Easements Acq.							\$ -
Construction						\$ 284,880	\$ 284,880
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 336,158	\$ 336,158

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: _TXDOT_ (Fund/Agency)						\$ 336,158	\$ 336,158
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 336,158	\$ 336,158

Comments/Special Project Notes:

The existing roadside drainage is assumed to range from 24" to 36" deep and is in a v-shape. Typical roadside swales are at 0.10% slope.



500' 1000'
SCALE: 1" = 500'

P2b
E MEYER HIKE AND BIKE TRAIL



SEABROOK
YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WILDWOOD PLAYGROUND EQUIPMENT REPLACEMENT
 Project Location/Limits: WILDWOOD PLAYGROUND
 CIP Number: P6
 Facility Type: PARK

Project Description and Justification

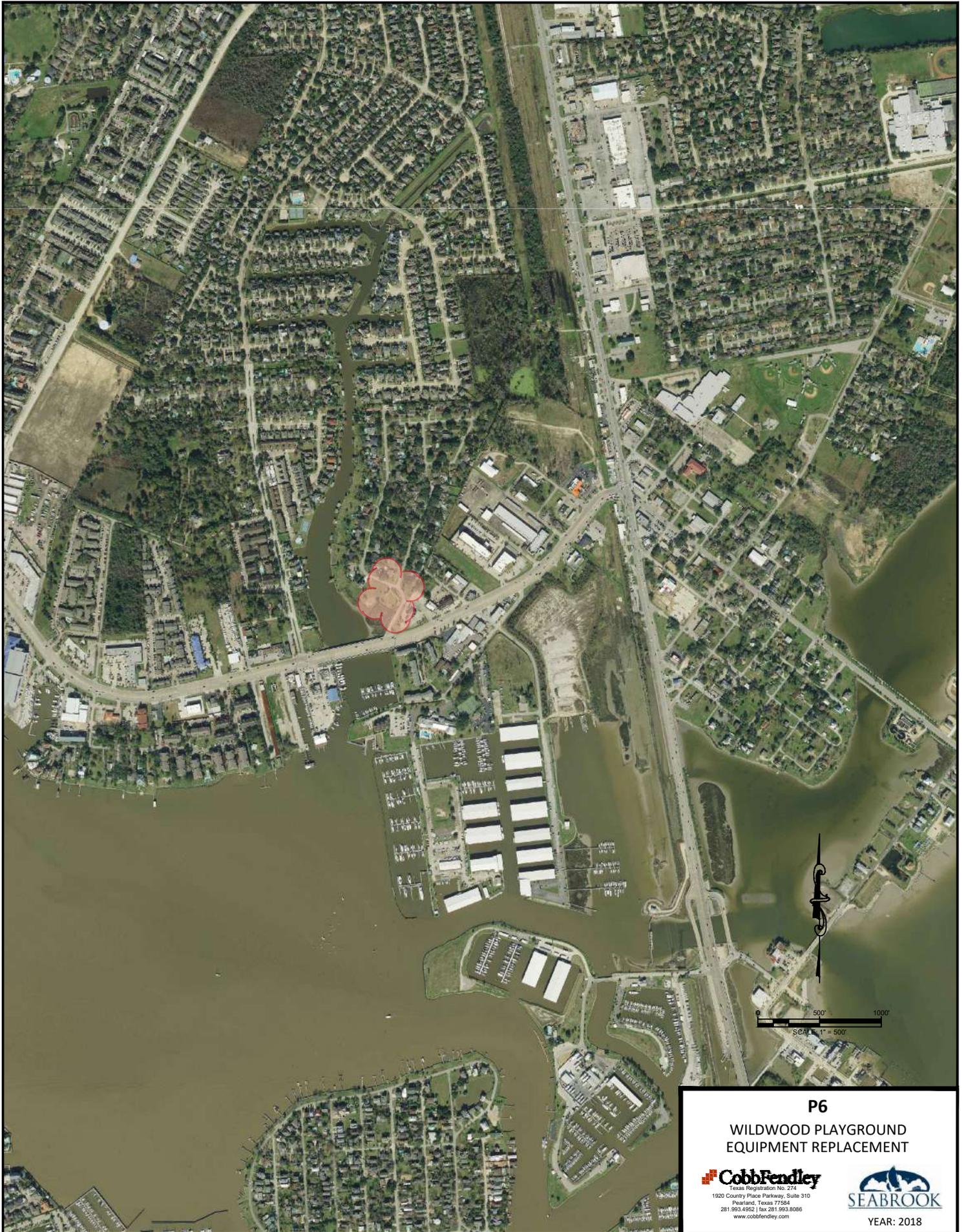
This project is to replace the existing playground equipment at Wildwood Playground.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction				\$ 40,000			\$ 40,000
Total Cost	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ 40,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD				\$ 40,000			\$ 40,000
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ 40,000

Comments/Special Project Notes:



P6

WILDWOOD PLAYGROUND
EQUIPMENT REPLACEMENT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: MEADOR PARK TRAIL LIGHTS
 Project Location/Limits: MEADOR PARK
 CIP Number: P7
 Facility Type: PARK

Project Description and Justification

This project is to add lighting to Meador Park Trail.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction			\$ 45,000	\$ -			\$ 45,000
Total Cost	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees			\$ 45,000				\$ 45,000
Total Funding	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000

Comments/Special Project Notes:

Meador Trail is approximately 1,600 linear feet.



0 500' 1000'
SCALE: 1" = 500'

P7
MEADOR PARK TRAIL LIGHTS

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pearland, Texas 77564
281.993.4952 | fax 281.993.8086
www.cobbfendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: RED BLUFF/TAYLOR LAKE KAYAK LAUNCH
 Project Location/Limits: TAYLOR LAKE AT RED BLUFF
 CIP Number: P9
 Facility Type: PARK

Project Description and Justification

This project is to add a kayak boat launch to Taylor Lake at Red Bluff.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction						\$ 75,000	\$ 75,000
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 75,000	\$ 75,000
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,000	\$ 75,000

Comments/Special Project Notes:



P9

**RED BLUFF/TAYLOR LAKE
KAYAK LAUNCH**

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pearland, Texas 77584
281.993.4952 | fax 281.993.8086
www.cobbfendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY HIKE AND BIKE TRAIL EAST

Project Location/Limits: ON PORT BERM EAST OF PARK DRIVE TOWARD TODVILLE (WITHIN CITY LIMITS)

CIP Number: P10

Facility Type: PARK

Project Description and Justification

This project consists of approximately 3,000 linear feet of decomposed granite for a hike and bike trail.

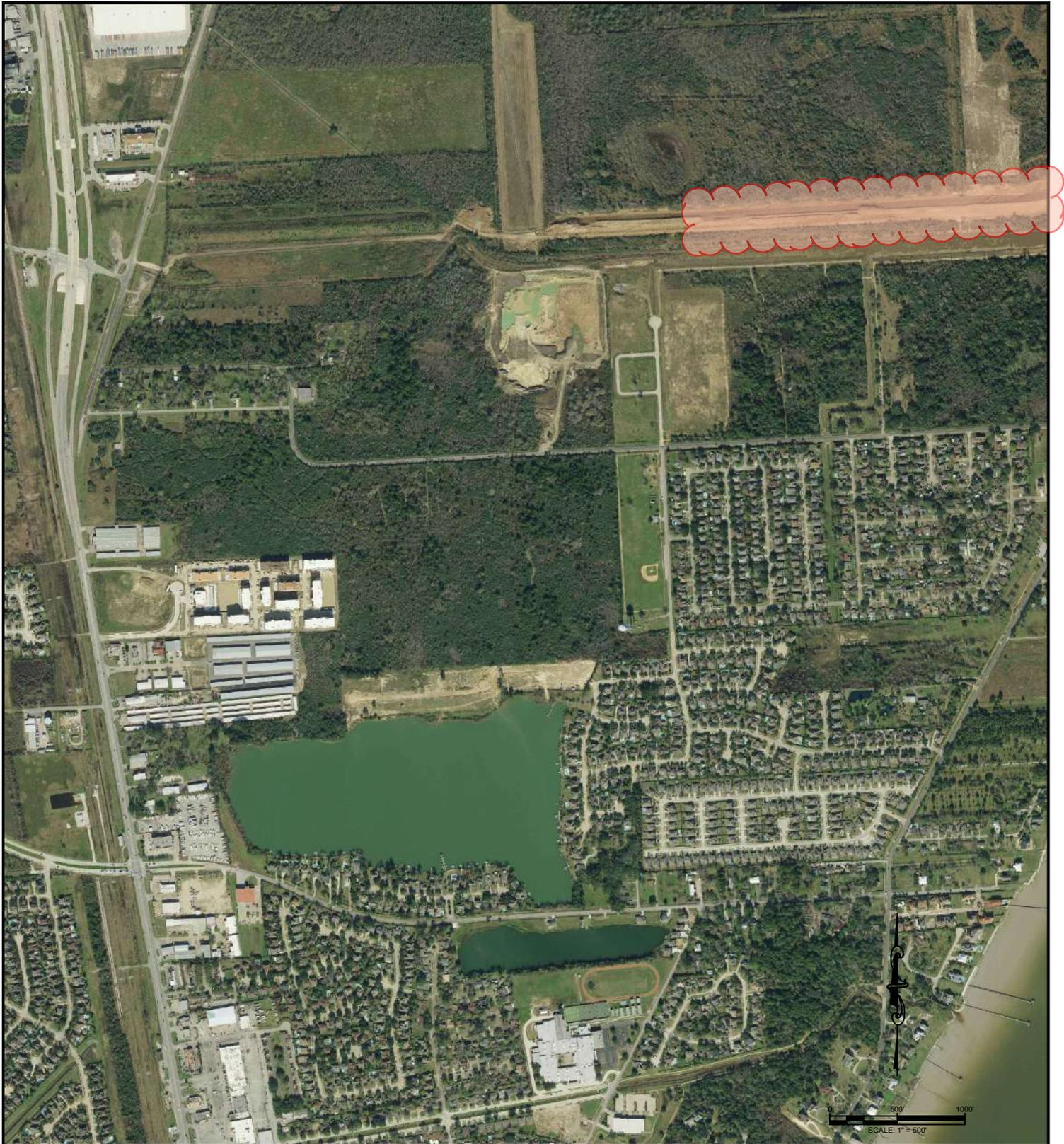
Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction						\$ 115,200	\$ 115,200
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,200	\$ 115,200

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 115,200	\$ 115,200
Other: ____ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 115,200	\$ 115,200

Comments/Special Project Notes:

City staff will perform trail construction.



P10
PINE GULLY HIKE AND BIKE TRAIL EAST



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY PIER TEE HEAD REPLACEMENT
 Project Location/Limits: END OF PINE GULLY PIER
 CIP Number: P11
 Facility Type: PARK

Project Description and Justification

This project consists of removal of the pier tee head wood decking and replacement with a flow through grate decking, removal and replacement of needed piers, and removal and replacement of stringers and handrails. The tee head is the most damaged aspect of the pier during high wave action causing the boards to pop off; the flow through grating would prevent this.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction						\$ 120,000	\$ 120,000
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD						\$ 120,000	\$ 120,000
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,000	\$ 120,000

Comments/Special Project Notes:



Google Earth

© 2018 Google

500 ft



P11
PINE GULLY PIER TEE HEAD
REPLACEMENT



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: COOK STREET OUTDOOR EXERCISE PARK
 Project Location/Limits: COOK STREET (JUST BEFORE BAY ELEMENTARY)
 CIP Number: P12
 Facility Type: PARK

Project Description and Justification

The construction of an outdoor exercise park on Cook Street that would include outdoor fitness equipment and trail segment addition.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Land/Easements Acq.							\$ -
Engineering/Planning							\$ -
Construction		\$ 60,000					\$ 60,000
Total Cost	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds							\$ -
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fun 28 Gen CIP							\$ -
TBD		\$ 60,000					\$ 60,000
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Comments/Special Project Notes:

**PROPOSED
ECONOMIC DEVELOPMENT
CORPORATION (EDC) PROJECTS**

FY20 – FY24+

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: STARBOARD ROAD (RED BLUFF EXTENSION)
 Project Location/Limits: BETWEEN RED BLUFF AND SH 146
 CIP Number: EDC1
 Facility Type: EDC1

Project Description and Justification

Proposed development of property between existing Red Bluff Rd and SH 146 to include a 4 lane fully developed paving, drainage, and utility improvements know as Starboard Road.

Project Cost Estimates:

COST BY FISCAL YEAR							
Project Cost	Prior Funding	FY20	FY21	FY22	FY23	FY24+	TOTAL
Environmental							\$ -
Engineering/Planning						\$ 457,349	\$ 457,349
Land/Easements Acq.							\$ -
Construction						\$ 2,286,744	\$ 2,286,744
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,744,093	\$ 2,744,093

FUNDING SOURCES BY FISCAL YEAR							
Funding Source	Prior Funding	FY19	FY20	FY21	FY22	FY23+	TOTAL
General Fund -Cash							\$ -
Certificates of Obligation							\$ -
Prior Certificates of Obligation							\$ -
General Obligation Bonds							\$ -
Prior Bonds							\$ -
Future Bonds							\$ -
SEDC 4B Funds						\$ 2,744,093	\$ 2,744,093
Water/Sewer Revenue Bonds							\$ -
Enterprise Utility Fund - Cash							\$ -
Impact Fees							\$ -
Developer Contribution							\$ -
Potential Grant							\$ -
Fund 28 Gen CIP							\$ -
TBD							\$ -
Other: ___ (Fund/Agency)							\$ -
Park Impact Fees							\$ -
Total Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,744,093	\$ 2,744,093

Comments/Special Project Notes:

Road is proposed by developers in order to develop the proposed parcel. Coordination with TxDOT on access to SH 146. Possible environmental assessment.