

1 The City Council of the City of Seabrook met in special teleconference session on Tuesday, July
2 7, 2020 at 6:00 p.m. to discuss, consider and if appropriate, take action on the items listed below.

3
4 THOSE PRESENT WERE:

| | |
|--------------------|---------------------|
| 5 THOM KOLUPSKI | MAYOR |
| 6 ED KLEIN | COUNCIL PLACE NO. 1 |
| 7 LAURA DAVIS | COUNCIL PLACE NO. 2 |
| 8 JEFF LARSON | COUNCIL PLACE NO. 3 |
| 9 NATALIE PICHA | MAYOR PRO TEM |
| 10 | COUNCIL PLACE NO. 4 |
| 11 BUDDY HAMMANN | COUNCIL PLACE NO. 5 |
| 12 JOE MACHOL | COUNCIL PLACE NO. 6 |
| 13 GAYLE COOK | CITY MANAGER |
| 14 SEAN LANDIS | DEPUTY CITY MANAGER |
| 15 STEVE WEATHERED | CITY ATTORNEY |
| 16 ROBIN LENIO | CITY SECRETARY |

17
18 Mayor Kolupski called the meeting to order at 6:00 p.m. and conducted roll call to establish a
19 quorum of City Council members.

20
21 **1. PUBLIC COMMENTS AND ANNOUNCEMENTS – none**

22
23 **2. CAPITAL IMPROVEMENTS PROGRAM**

24
25 **2.1** City Council and City Staff will hear a presentation on, review and discuss, and if
26 necessary, take all appropriate action on the FY 2020-2021 Capital Improvements Program (CIP)
27 projects. *Gayle Cook, City Manager*

28
29 Brian Craig, City Engineer and Assistant Director of Public Works, presented the FY
30 2020-2021 CIP project as shown in Attachment A.

31
32 *Motion was made by Mayor Pro Tem Picha and seconded by Councilmember Davis*

33
34 *To approve the FY 2020-2021 Capital Improvements Program (CIP) projects as presented.*

35
36 **MOTION CARRIED BY UNANIMOUS CONSENT**

37
38 Upon motion duly made and seconded, Mayor Kolupski adjourned the meeting at 6:21 p.m.

39
40 Approved this 21st day of July, 2020.

Thomas G. Kolupski

Thomas G. Kolupski, Mayor

Robin Lenio

Robin Lenio, TRMC, City Secretary





Capital
Improvement
Program
FY21-25+

City of Seabrook

June 2020

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 "FY25+" 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.



Potential Future Projects

Many projects are identified through master planning processes, regional plan development, and city council direction. The following list are projects identified but not prioritized for inclusion into the current Capital Improvements Plan.

| Project Name | Year Proposed for Funding |
|--|---------------------------|
| Commercial Road | Developer Driven Project |
| Humble Drive Extension | TBD |
| Public Safety / Court Building | FY 24+ |
| SH 146 Beautification - Lighting | TBD |
| Fire - SCBA Replacement and Compressor | TBD |
| Fire - Engine Replacement | FY 25+ |
| Fire - Traffic Emption System | TBD |
| Fire - Thermal Imaging Cameras | TBD |
| Fire - Radios | TBD |



2020 COMPLETED PROJECTS

W6 OLD SEABROOK WATER LINE IMPROVEMENTS
W13 CHLORAMINE CONVERSION
W14 NASA 1 WATER LINE IMPROVEMENTS
W17 PINE GULLY AND HESTER'S GULLY WATER LINE IMPROVEMENTS
W18 HESTER'S GULLY WATER LINE IMPROVEMENTS
WW4 TODVILLE SEWER LINE REPLACEMENT
S3 BAYBROOK SECTION 1 - BROOKWOOD CT
S10 MARVIN CIRCLE
FAC1 SCADA SYSTEM UPGRADES WATER
FAC8 VOLUNTEER FIRE DEPARTMENT FLOOR COATING
FAC10 WATER WELLS FIBER CONDUIT
FAC11 WATER WELLS FIBER CONDUIT
P3 PINDO PALMS
P4 BAYBROOK TENNIS COURT RESURFACING
P5 ROBINSON PARK PARKING LOT INCREASES

2021 PROPOSED PROJECTS

WW1 EAST MEYER PIPE BURSTING
WW9 PINE GULLY WASTEWATER TREATMENT PLANT RETROFIT
D1 TODVILLE ROAD BRIDGE
D2 EL MAR DITCH
D11 SEASCAPE SUBDIVISION HCFCD BOND E-07
D12 BAYBROOK SUBDIVISION HCFCD BOND E-07
FAC6 SMART WATER METER CONVERSION
FAC9 CITY HALL COUNCIL CHAMBERS/COURT CHAMBERS SECURITY REMODEL

PROJECTS ADDED TO CIP THIS YEAR (2020)

S13 TODVILLE SIDE STREET ASPHALT REHAB
S14 CITYWIDE STREET SIGN REPLACEMENT
FAC16 GATEWAY AND DIRECTIONAL SIGNAGE
FAC17 TRAFFIC EMPTION SYSTEM
FAC18 2005 DASH PUMPER FIRE ENGINE REPLACEMENT
FAC19 2008 AERIAL PLATFORM LADDER TRUCK
FAC20 2009 PUMPER FIRE TRUCK REPLACEMENT
FAC21 2016 PUMPER FIRE TRUCK REPLACEMENT
P13 CITY PARK STANDARDAZATION
EDC2 PROPOSED RED BLUFF EXTENSION

CAPITAL IMPROVEMENT PROJECT SUMMARY

| | | | | PROJECT COST | | | | | | |
|----------------------------------|-----------|--|------------------------------|---------------------|----------------------|----------------------|---------------------|-------------|----------------------|----------------------|
| CIP # | Project # | PROJECT DESCRIPTION | Funding | PREVIOUS | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| WATER PROJECTS | | | | | | | | | | |
| W2 | | SHIPYARDS WATER SERVICE PHASE 1 | DEVELOPER CONTRIBUTION | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 674,620 | \$ 674,620 |
| W3 | | SHIPYARDS WATER SERVICE PHASE 2 | DEVELOPER CONTRIBUTION | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 478,280 | \$ 478,280 |
| W5 | | TAYLOR LAKE WATER LINE CROSSING | OTHER AGENCY | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,829,800 | \$ 1,829,800 |
| W6 | 312 | OLD SEABROOK WATER LINE IMPROVEMENTS | IMPACT & ENTERPRISE FUND | \$ 290,369 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 290,369 |
| W7 | 306 | STATE HIGHWAY 146 WATER LINE IMPROVEMENTS | SIB & ENTERPRISE | \$ 2,052,940 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,127,940 |
| W9 | | RED ACRES SUBDIVISION WATER LINE | ENTERPRISE & TBD | \$ 39,201 | \$ - | \$ - | \$ - | \$ - | \$ 1,255,878 | \$ 1,295,079 |
| W10 | | PINE GULLY AREA WATER LINE IMPROVEMENTS | OTHER AGENCY | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 344,788 | \$ 344,788 |
| W11 | | FRIENDSHIP PARK WATER TANK REHABILITATION | IMPACT FEES | \$ 350,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 350,000 |
| W12 | | REPSDORPH WATER TANK REHABILITATION | ENTERPRISE | \$ - | \$ - | \$ - | \$ 780,313 | \$ - | \$ - | \$ 780,313 |
| W13 | 317 | CHLORAMINE CONVERSION*** | ENTERPRISE | \$ 285,375 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 285,375 |
| W14 | 313 | NASA 1 WATER LINE IMPROVEMENTS*** | IMPACT & ENTERPRISE FUND | \$ 363,587 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 363,587 |
| W16 | | OLD SH 146 INTERCONNECT | IMPACT FEES | \$ - | \$ - | \$ 65,013 | \$ 325,063 | \$ - | \$ - | \$ 390,075 |
| W17 | 314 | PINE GULLY AND HESTER'S GULLY WATER LINE IMPROVEMENTS*** | ENTERPRISE | \$ 122,006 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 122,006 |
| W18 | 315 | HESTER'S GULLY WATER LINE IMPROVEMENTS*** | ENTERPRISE | \$ 104,009 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 104,009 |
| TOTAL WATER PROJECTS | | | | \$ 3,607,488 | \$ 75,000 | \$ 65,013 | \$ 1,105,375 | \$ - | \$ 4,583,366 | \$ 9,436,241 |
| CIP # | Project # | PROJECT DESCRIPTION | Funding | PREVIOUS | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| WASTEWATER PROJECTS | | | | | | | | | | |
| WW1 | | EAST MEYER PIPE BURSTING | FBONDS | \$ - | \$ 856,596 | \$ - | \$ - | \$ - | \$ - | \$ 856,596 |
| WW2 | | SHIPYARDS SEWER SERVICE PHASE 1 | DEVELOPER | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,322,113 | \$ 1,322,113 |
| WW3 | | SHIPYARDS SEWER SERVICE PHASE 2 | DEVELOPER | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 341,875 | \$ 341,875 |
| WW4 | 302 | TODVILLE SEWER LINE REPLACEMENT | 2016A COS | \$ 1,281,247 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,281,247 |
| WW6 | 303 | WASTEWATER TREATMENT PLANT UPGRADES PHASE 2 | 2016A COS | \$ 827,394 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 827,394 |
| WW7 | | RED BLUFF SANITARY SEWER EXTENSION | DEVELOPER | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 204,000 | \$ 204,000 |
| WW8 | 306 | STATE HIGHWAY 146 SANITARY SEWER IMPROVEMENTS | SIB & ENTERPRISE | \$ 2,078,334 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,153,334 |
| WW9 | 301 | PINE GULLY WASTEWATER TREATMENT PLANT RETROFIT | 2016A COS & IMPACT & 2020 CO | \$ 4,592,888 | \$ 15,676,775 | \$ 15,676,775 | \$ - | \$ - | \$ - | \$ 35,946,438 |
| WW14 | | LIFT STATION NO 5 FORCE MAIN IMPROVEMENT | DEVELOPER | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 370,500 | \$ 370,500 |
| TOTAL WASTEWATER PROJECTS | | | | \$ 8,779,863 | \$ 16,608,371 | \$ 15,676,775 | \$ - | \$ - | \$ 2,238,488 | \$ 43,303,497 |
| CIP # | Project # | PROJECT DESCRIPTION | Funding | PREVIOUS | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| DRAINAGE PROJECTS | | | | | | | | | | |
| D1 | | TODVILLE ROAD BRIDGE | HARRIS COUNTY | \$ - | \$ 3,940,374 | \$ - | \$ - | \$ - | \$ - | \$ 3,940,374 |
| D2 | | EL MAR DITCH | HARRIS CO 50% City(2020 CO) | \$ - | \$ 3,905,527 | \$ - | \$ - | \$ - | \$ - | \$ 3,905,527 |
| D4 | | WILDLIFE PARK DRAINAGE EXPANSION | IMPACT & FBOND | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 749,090 | \$ 749,090 |
| 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 | FUND 28 GEN | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 214,500 | \$ 214,500 |
| D9 | 319 | WATER WAY OUTFALL | FUND 28 GEN | \$ - | \$ - | \$ 83,625 | \$ - | \$ - | \$ - | \$ 83,625 |
| D10 | | BAYWOOD BRIDGE IMPROVEMENTS | HARRIS COUNTY | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 820,500 | \$ 820,500 |
| D11 | | SEASCAPE SUBDIVISION HCFCD BOND E-07 | HARRIS CO 50% City(2020 CO) | \$ 49,880 | \$ 1,190,120 | \$ - | \$ - | \$ - | \$ - | \$ 1,240,000 |
| D12 | | BAYBROOK SUBDIVISION HCFCD BOND E-07 | HARRIS CO 50% City(2020 CO) | \$ 38,000 | \$ 960,000 | \$ - | \$ - | \$ - | \$ - | \$ 998,000 |
| D13 | | MIRAMAR SUBDIVISION STREET AND STORM IMPROVEMENTS | HARRIS COUNTY 50% City | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 7,300,759 | \$ 7,300,759 |
| TOTAL DRAINAGE PROJECTS | | | | \$ 87,880 | \$ 9,996,021 | \$ 83,625 | \$ - | \$ - | \$ 13,065,366 | \$ 23,232,892 |
| CIP # | Project # | PROJECT DESCRIPTION | Funding | PREVIOUS | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| STREET PROJECTS | | | | | | | | | | |
| S3 | 307 | BAYBROOK SECTION 1 - BROOKWOOD CT | SANIT FRANCHISE | \$ 266,593 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 266,593 |
| S4 | | MIRAMAR STREETS - DOLPHIN DRIVE | FBONDS | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| S6 | | MIRAMAR STREETS - CAPRI LANE | FBONDS | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| S6 | | MIRAMAR STREETS - BIMINI WAY | FBONDS | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| S7 | | MIRAMAR STREETS - ASPEN LANE | FBONDS | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| S8 | | SEASCAPE II STREET IMPROVEMENTS | FBONDS & GENERAL FUND 28 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4,334,655 | \$ 4,334,655 |
| S9 | | BAYBROOK SECTION III STREET IMPROVEMENTS | FBONDS | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 3,858,714 | \$ 3,858,714 |
| S10 | 311 | MARVIN CIRCLE | SANIT FRANCHISE | \$ 322,378 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 322,378 |
| S14 | | TODVILLE ROAD RECONSTRUCTION | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| S12 | | CAPRI LANE ROAD RECONSTRUCTION | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 430,588 | \$ 430,588 |
| S13 | | TODVILLE SIDE STREET ASPHALT REHAB | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 634,273 | \$ 634,273 |
| S14 | | CITYWIDE STREET SIGN REPLACEMENT | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 20,000 | \$ 20,000 |
| TOTAL STREET PROJECTS | | | | \$ 588,970 | \$ - | \$ - | \$ - | \$ - | \$ 9,278,230 | \$ 9,867,200 |

| CIP # | Project # | PROJECT DESCRIPTION | Funding | PREVIOUS | FY21 | FY22 | FY23 | FY24 | FY25+ |
|--------------------------------|-----------|--|----------------------|---------------|---------------|---------------|--------------|--------------|---------------|
| FACILITY PROJECTS | | | | | | | | | |
| FAC1 | 309 | SCADA SYSTEM UPGRADES WATER | 2016 CO | \$ 275,522 | \$ - | \$ - | \$ - | \$ - | \$ 275,522 |
| FAC4 | | MIRAMAR PARK PARKING LOT | OTHER AGENCY | \$ - | \$ - | \$ - | \$ - | \$ 414,345 | \$ 414,345 |
| FAC6 | | SMART WATER METER CONVERSION | 2020 CO | \$ - | \$ 3,000,000 | \$ - | \$ - | \$ - | \$ 3,000,000 |
| FAC7 | | PUBLIC SAFETY INSPECTION AREA (SH 146) | FUND 28 GEN | \$ - | \$ - | \$ - | \$ 339,404 | \$ - | \$ 339,404 |
| FAC8 | 316 | VOLUNTEER FIRE DEPARTMENT FLOOR COATING | FUND 28 GEN | \$ 45,824 | \$ - | \$ - | \$ - | \$ - | \$ 45,824 |
| FAC9 | | CITY HALL COUNCIL CHAMBERS/COURT CHAMBERS SECURITY REMODEL | COURT FUNDS | \$ 2,500 | \$ 7,500 | \$ - | \$ - | \$ - | \$ 10,000 |
| FAC10 | 318 | WATER WELLS FIBER CONDUIT | GO BONDS FUND 28 GEN | \$ 110,000 | \$ - | \$ - | \$ - | \$ - | \$ 110,000 |
| FAC11 | 318 | WATER WELLS FIBER CONDUIT | FUND 28 GEN | \$ 170,915 | \$ - | \$ - | \$ - | \$ - | \$ 170,915 |
| 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 | \$ 7,900 | \$ - | \$ - | \$ - | \$ - | \$ 7,900 |
| FAC15 | | CITY HALL REMODEL | TBD | \$ - | \$ - | \$ - | \$ 62,500 | \$ - | \$ 62,500 |
| FAC16 | | GATEWAY AND DIRECTIONAL SIGNAGE | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| FAC17 | | TRAFFIC EMPTION SYSTEM | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| FAC18 | | 2005 DASH PUMPER FIRE ENGINE REPLACEMENT | TBD | \$ - | \$ - | \$ - | \$ - | \$ 849,493 | \$ 849,493 |
| FAC19 | | 2008 AERIAL PLATFORM LADDER TRUCK | TBD | \$ - | \$ - | \$ - | \$ - | \$ 1,537,174 | \$ 1,537,174 |
| FAC20 | | 2009 PUMPER FIRE TRUCK REPLACEMENT | TBD | \$ - | \$ - | \$ - | \$ - | \$ 1,041,784 | \$ 1,041,784 |
| FAC21 | | 2016 PUMPER FIRE TRUCK REPLACEMENT | TBD | \$ - | \$ - | \$ - | \$ - | \$ 1,202,432 | \$ 1,202,432 |
| TOTAL FACILITY PROJECTS | | | | \$ 772,661 | \$ 3,007,500 | \$ - | \$ 401,904 | \$ 414,345 | \$ 550,000 |
| PARKS PROJECTS | | | | | | | | | |
| P1 | | PINE GULLY HIKE AND BIKE TRAIL | POTENTIAL GRANT | \$ - | \$ - | \$ 173,400 | \$ - | \$ 540,000 | \$ 713,400 |
| P2a | | E MEYER SAFE ROUTES TO SCHOOL SIDEWALK | OTHER AGENCY | \$ - | \$ - | \$ - | \$ 140,030 | \$ 560,137 | \$ 700,167 |
| P2b | | E MEYER HIKE AND BIKE TRAIL | OTHER AGENCY | \$ - | \$ - | \$ - | \$ - | \$ 237,038 | \$ 237,038 |
| P3 | | PINDO PALMS | GENERAL FUND | \$ 15,000 | \$ - | \$ - | \$ - | \$ - | \$ 15,000 |
| P4 | | BAYBROOK TENNIS COURT RESURFACING | PARK IMPACT | \$ 12,290 | \$ - | \$ - | \$ - | \$ - | \$ 12,290 |
| P5 | | ROBINSON PARK PARKING LOT INCREASES | PARK IMPACT | \$ 18,000 | \$ - | \$ - | \$ - | \$ - | \$ 18,000 |
| P6 | | WILDWOOD PLAYGROUND EQUIPMENT REPLACEMENT | PARK IMPACT | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| P7 | | MEADOR PARK TRAIL LIGHTS | PARK IMPACT | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| P8 | | BAYSIDE KAYAK LAUNCH | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| P9 | | TAYLOR LAKE KAYAK | TBD | \$ - | \$ - | \$ - | \$ - | \$ 75,000 | \$ 75,000 |
| P10 | | PINE GULLY HIKE AND BIKE TRAIL EAST EXTENSION | TBD | \$ - | \$ - | \$ - | \$ - | \$ 79,200 | \$ 79,200 |
| P11 | | PINE GULLY PIER TEE HEAD REPLACEMENT | TBD | \$ - | \$ - | \$ - | \$ - | \$ 120,000 | \$ 120,000 |
| P13 | | CITY PARK STANDARDAZATION | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOTAL PARK PROJECTS | | | | \$ 45,290 | \$ 173,400 | \$ 140,030 | \$ 1,100,137 | \$ 511,238 | \$ 1,970,095 |
| EDC PROJECTS | | | | | | | | | |
| EDC1 | | STARBOARD ROAD (RED BLUFF EXTENTION) | DEVELOPER | \$ - | \$ - | \$ - | \$ - | \$ 2,744,093 | \$ 2,744,093 |
| EDC2 | | PROPOSED RED BLUFF EXTENSION | TBD | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| TOTAL EDC PROJECTS | | | | \$ - | \$ - | \$ - | \$ - | \$ 2,744,093 | \$ 2,744,093 |
| TOTAL COST PER YEAR | | | | \$ 13,882,151 | \$ 29,686,892 | \$ 15,998,813 | \$ 1,647,309 | \$ 1,514,482 | \$ 30,226,687 |
| | | | | \$ 92,956,334 | | | | | |

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 very poorly served area with much of it still on water wells. This project would provide City water services to the area and provide for future development in the area.

Project Cost Estimates:

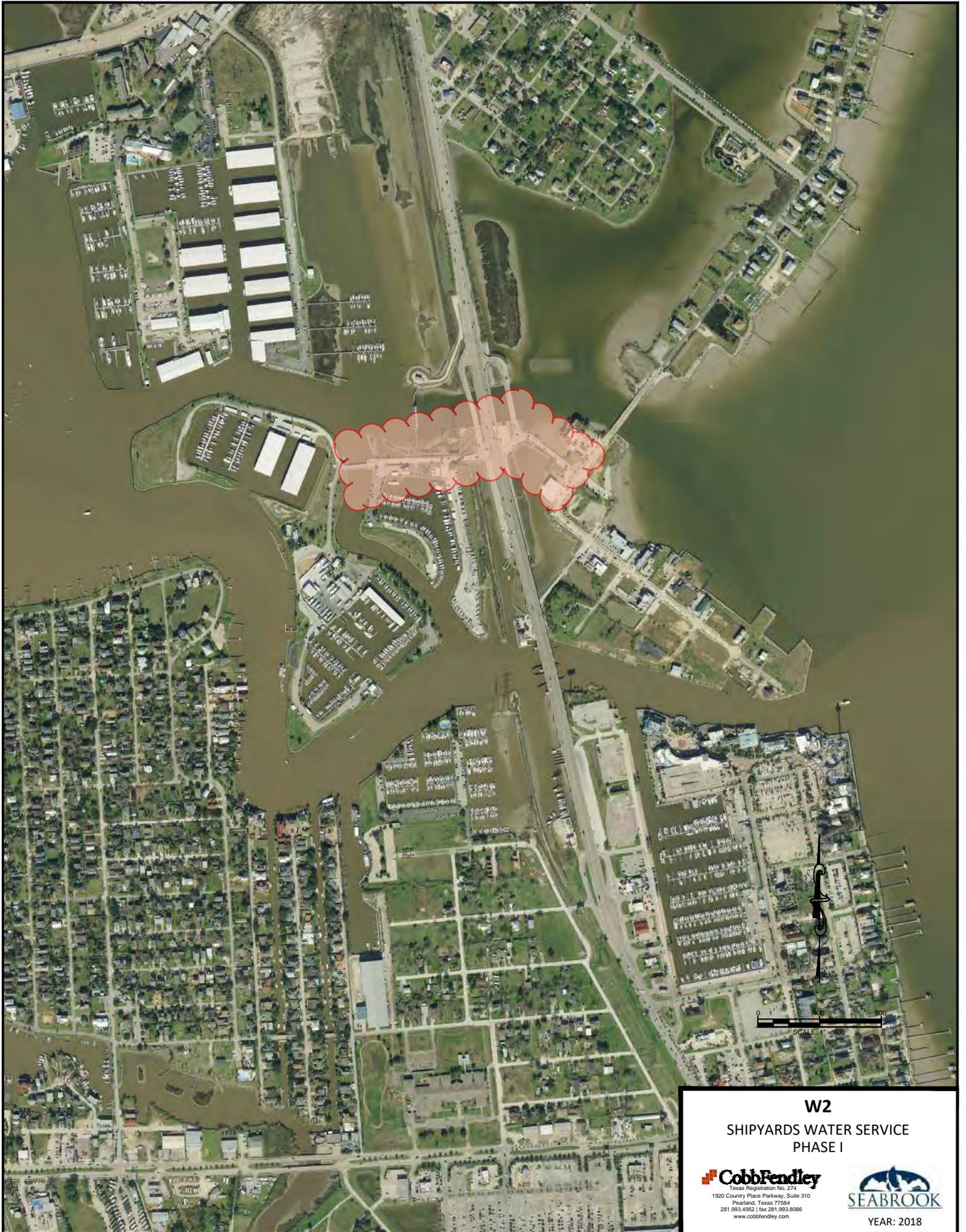
| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 98,500 | \$ 98,500 |
| Land/Easements Acq. | | | | | | \$ 60,000 | \$ 60,000 |
| Construction | | | | | | \$ 535,320 | \$ 535,320 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 693,820 | \$ 693,820 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|-----------------------------|----------------------|
| 12-Inch PVC Water Line | 400 | LF | \$ 90.00 | \$ 36,000.00 |
| 12-Inch PVC Water Line (Trenchless) | 100 | LF | \$ 120.00 | \$ 12,000.00 |
| 12-Inch Bore & Jacked (20" Casing) | 400 | LF | \$ 400.00 | \$ 160,000.00 |
| 20-Inch HDPE Directional Drilled | 600 | LF | \$ 320.00 | \$ 192,000.00 |
| 12-Inch Gate Valves | 5 | EA | \$ 2,000.00 | \$ 10,000.00 |
| Fire Hydrant Assemblies | 5 | EA | \$ 4,500.00 | \$ 22,500.00 |
| Water Services | 3 | EA | \$ 1,200.00 | \$ 3,600.00 |
| Dewatering | 400 | LF | \$ 25.00 | \$ 10,000.00 |
| | | | Project Contingencies (20%) | \$ 89,220.00 |
| | | | Construction Total | \$ 535,320.00 |

Comments/Special Project Notes:



W2
SHIPYARDS WATER SERVICE
PHASE I

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Pasland, Texas 77564
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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 would provide adequate supply for firefighting within the Shipyards, as well as provide the means to support economic development within the area.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------------|----------|------|-----------------------------|----------------------|
| 12-Inch PVC Water Line | 3600 | LF | \$ 90.00 | \$ 324,000.00 |
| 20-Inch HDPE Directional Drilled | 250 | LF | \$ 320.00 | \$ 80,000.00 |
| 12-Inch Gate Valves | 8 | EA | \$ 2,000.00 | \$ 16,000.00 |
| Fire Hydrant Assemblies | 15 | EA | \$ 4,500.00 | \$ 67,500.00 |
| Water Services | 7 | EA | \$ 1,200.00 | \$ 8,400.00 |
| Dewatering | 3600 | LF | \$ 25.00 | \$ 90,000.00 |
| | | | Project Contingencies (20%) | \$ 117,180.00 |
| | | | Construction Total | \$ 703,080.00 |

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 project is not properly categorized as a City CIP Project. The line segment is owned by the City of Pasadena and should be properly maintained by Pasadena, but due to it's current condition, it has been poorly maintained. 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, but no importance to Pasadena and is therefore not well maintained.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

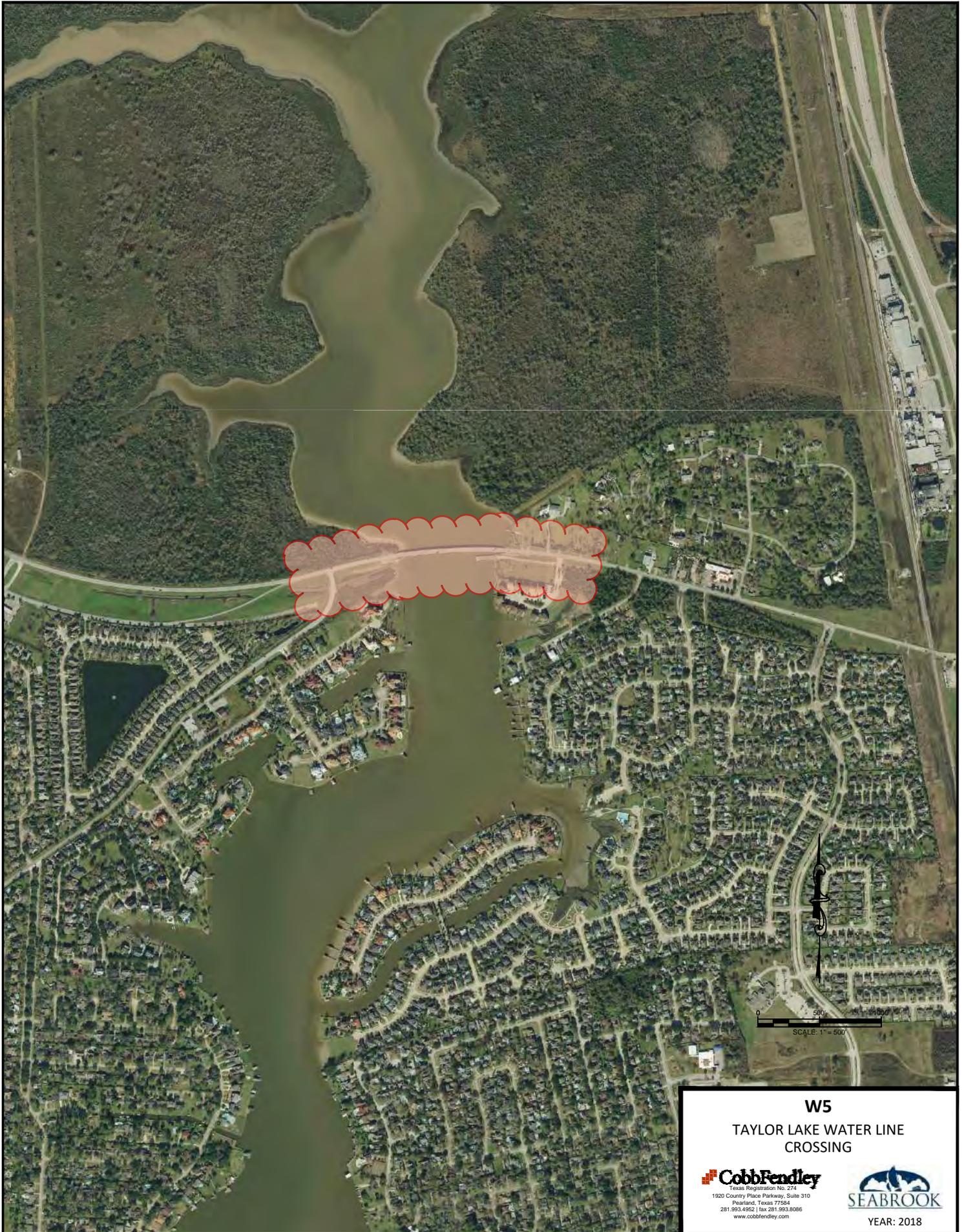
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-----------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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) | | | | | | \$ 2,093,800.00 | \$ 2,093,800 |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 2,093,800 | \$ 2,093,800 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------------|----------|------|-----------------------------|------------------------|
| 24-Inch PVC Water Line | 800 | LF | \$ 300.00 | \$ 240,000.00 |
| 32-Inch HDPE Directional Drilled | 1700 | LF | \$ 600.00 | \$ 1,020,000.00 |
| 24-Inch Valves | 2 | EA | \$ 4,500.00 | \$ 9,000.00 |
| Relocate Metering Station | 1 | LS | \$ 40,000.00 | \$ 40,000.00 |
| Dewatering | 800 | LF | \$ 50.00 | \$ 40,000.00 |
| | | | Project Contingencies (20%) | \$ 269,800.00 |
| | | | Construction Total | \$ 1,618,800.00 |

Comments/Special Project Notes:

The aerial crossing attached to the Taylor Lake Bridge suffers from corrosion and 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 lines existing location. Would possibly require a USACE Permit and a GLO Easement.



W5
TAYLOR LAKE WATER LINE
CROSSING

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SEABROOK

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

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:

| Project Cost | COST BY FISCAL YEAR | | | | | | | TOTAL |
|----------------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------------|-------|
| | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | | |
| Engineering/Planning | \$ 49,224 | \$ - | \$ - | | | | \$ 49,224 | |
| Land/Easements Acq. | | | | | | | \$ - | |
| Construction | \$ 241,145 | \$ - | | | | | \$ 241,145 | |
| Total Cost | \$ 290,369 | \$ - | \$ 290,369 | |

| Funding Source | FUNDING SOURCES BY FISCAL YEAR | | | | | | | TOTAL |
|----------------------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------------|-------|
| | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | | |
| 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 | \$ 241,145 | \$ - | | | | | \$ 241,145 | |
| Impact Fees | \$ 49,224 | \$ - | | | | | \$ 49,224 | |
| Developer Contribution | | | | | | | \$ - | |
| Potential Grant | | | | | | | \$ - | |
| Fun 28 Gen CIP | | | | | | | \$ - | |
| TBD | | | | | | | \$ - | |
| Other: ___ (Fund/Agency) | | | | | | | \$ - | |
| Park Impact Fees | | | | | | | \$ - | |
| Total Funding | \$ 290,369 | \$ - | \$ 290,369 | |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|-----------------------------|----------------------|
| Old Seabrook | | | | |
| 8-Inch PVC Water Line | 390 | LF | \$ 50.00 | \$ 19,500.00 |
| 12-Inch PVC Water Line | 850 | LF | \$ 90.00 | \$ 76,500.00 |
| 12-Inch PVC Water Line (Trenchless) | 500 | LF | \$ 120.00 | \$ 60,000.00 |
| Wet Connection to Existing 12" WL | 1 | EA | \$ 3,500.00 | \$ 3,500.00 |
| 12-Inch Gate Valves | 4 | EA | \$ 2,000.00 | \$ 8,000.00 |
| 8-Inch Gate Valves | 3 | EA | \$ 1,200.00 | \$ 3,600.00 |
| Fire Hydrant Assemblies | 4 | EA | \$ 4,500.00 | \$ 18,000.00 |
| Water Services | 8 | EA | \$ 2,000.00 | \$ 16,000.00 |
| | | | Project Contingencies (20%) | \$ 41,020.00 |
| | | | Construction Total | \$ 246,120.00 |

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.



W6
OLD SEABROOK WATER LINE
IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: STATE HIGHWAY 146 WATER LINE IMPROVEMENTS

Project Location/Limits: FROM NASA RD 1 TO 400FT SOUTH OF BAYVIEW DRIVE ALONG STATE HIGHWAY 146

CIP Number: W7

Facility Type: WATER

Project Description and Justification

The purpose of this project is to relocate the existing water line facilities with the existing TxDOT SH146 ROW to a location outside of the new proposed highway improvements. Improvements and extensions of services in areas that were not provided before will be included.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 205,761 | \$ 75,000 | | | | | \$ 280,761 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 1,847,179 | \$ - | | | | | \$ 1,847,179 |
| Total Cost | \$ 2,052,940 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,127,940 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------------|--------------------------------|-------------|-------------|-------------|-------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 205,761 | \$ 75,000 | | | | | \$ 280,761 |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: __sib_ (Fund/Agency) | \$ 1,847,179 | \$ - | \$ - | \$ - | | | \$ 1,847,179 |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 2,052,940 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,127,940 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|------------------------------|----------|------|-------------|---------------|
| Trench Excavation Protection | 18505 | LF | \$ 8.00 | \$ 148,040.00 |
| 6-Inch PVC Water Line | 60 | LF | \$ 78.00 | \$ 4,680.00 |
| 8-Inch PVC Water Line | 1485 | LF | \$ 92.00 | \$ 136,620.00 |
| 10-Inch PVC Water Line | 40 | LF | \$ 97.00 | \$ 3,880.00 |
| 12-Inch PVC Water Line | 8626 | LF | \$ 110.00 | \$ 948,860.00 |
| 12-Inch Restrained Joint | 754 | LF | \$ 141.00 | \$ 106,314.00 |
| 22-Inch Steel Casing | 724 | LF | \$ 725.00 | \$ 524,900.00 |
| 2-Inch Wet Connection | 1 | EA | \$ 1,600.00 | \$ 1,600.00 |
| 6-Inch Wet Connection | 3 | EA | \$ 2,000.00 | \$ 6,000.00 |
| 8-Inch Wet Connection | 2 | EA | \$ 2,200.00 | \$ 4,400.00 |
| 10-Inch Wet Connection | 1 | EA | \$ 2,500.00 | \$ 2,500.00 |
| 12-Inch Wet Connection | 8 | EA | \$ 3,500.00 | \$ 28,000.00 |
| Fire Hydrant Assembly | 35 | EA | \$ 2,500.00 | \$ 87,500.00 |
| Water Meter and Vault | 14 | EA | \$ 675.00 | \$ 9,450.00 |

| | | | | | | |
|-------------------------------|---|----|----|---------------------------|-----------|---------------------|
| 6-Inch Cut & Plug Water Line | 2 | EA | \$ | 1,700.00 | \$ | 3,400.00 |
| 8-Inch Cut & Plug Water Line | 2 | EA | \$ | 1,900.00 | \$ | 3,800.00 |
| 10-Inch Cut & Plug Water Line | 1 | EA | \$ | 2,200.00 | \$ | 2,200.00 |
| 12-Inch Cut & Plug Water Line | 7 | EA | \$ | 3,500.00 | \$ | 24,500.00 |
| Remove & Salvage Fire Hydrant | 7 | EA | \$ | 503.00 | \$ | 3,521.00 |
| | | | | Construction Total | \$ | 2,050,165.00 |

Comments/Special Project Notes:

The plan is to include these utility improvements with the TxDOT plans for their 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. From Towers Blvd to Bayview Dr, the City currently has easement rights in which TxDOT will compensate for the easement and utility relocation cost.

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

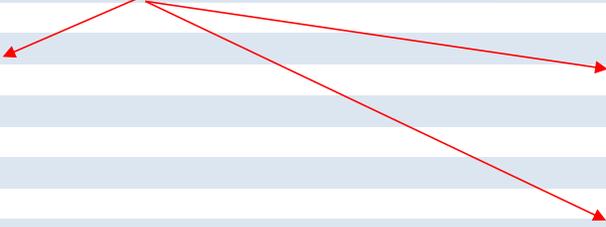
The City currently has a 6-inch water line in this location now. The water modeling suggests that this area is not class A in its capacity to supply fire flow at 2500 gpm. A water line arrangement that limits supply efficiency and an aged 6" water line that limits capacity.

Project Cost Estimates:

| Project Cost | COST BY FISCAL YEAR | | | | | | TOTAL |
|----------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|
| | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | FUNDING SOURCES BY FISCAL YEAR | | | | | | TOTAL |
|----------------------------------|--------------------------------|-------------|-------------|-------------|-------------|---------------------|---------------------|
| | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Due to construction related to the State's Red Bluff Project, the City took the opportunity to fund a portion of the Red Acres Project. Thus, drastically reducing the overall cost of the project. However, future funding is still required to complete the entire Red Acres Project.



Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-------------|------------|
| Red Bluff Crossing (Phase 1) | | | | |
| Mobilization | | LS | \$ 4,000.00 | \$ - |
| Remove & Replace Existing Sidewalk | | SF | \$ 10.00 | \$ - |
| 12-Inch PVC Water Line (Trenchless) | | LF | \$ 125.00 | \$ - |
| 12-Inch PVC Water Line (Open Cut) | | LF | \$ 90.00 | \$ - |
| 12-Inch Gate Valve & Box | | EA | \$ 2,000.00 | \$ - |
| Short Side Water Service Line and Connection | | EA | \$ 500.00 | \$ - |
| Fire Hydrant Assembly | | EA | \$ 4,250.00 | \$ - |
| 12-Inch Wet Connection | | EA | \$ 3,000.00 | \$ - |
| Erosion/Sediment Control | | LS | \$ 2,000.00 | \$ - |
| SWPPP Inspection and Maintenance | | LS | \$ 1,500.00 | \$ - |
| Reinforced Filter Fabric Fence | | LF | \$ 2.00 | \$ - |
| Sodding for Erosion Control | | SY | \$ 5.00 | \$ - |
| Traffic Control and Regulation | | LS | \$ 3,000.00 | \$ - |

| | | | | | | |
|-------------------------------------|------|----|----|------------------------------------|-----------|---------------------|
| | | | | Project Contingencies (15%) | \$ | - |
| | | | | Red Bluff Crossing Subtotal | \$ | - |
| Loganberry Circle (Phase 2) | | | | | | |
| 12-Inch PVC Water Line | 275 | LF | \$ | 90.00 | \$ | 24,750.00 |
| 12-Inch PVC Water Line (Trenchless) | 5230 | LF | \$ | 120.00 | \$ | 627,600.00 |
| 12-Inch Water Inside 24" Casing | 70 | LF | \$ | 675.00 | \$ | 47,250.00 |
| 12-Inch Gate Valves | 12 | EA | \$ | 2,000.00 | \$ | 24,000.00 |
| 6-Inch Gate Valves | 9 | EA | \$ | 1,100.00 | \$ | 9,900.00 |
| Fire Hydrant Assemblies | 7 | EA | \$ | 4,500.00 | \$ | 31,500.00 |
| Water Services | 59 | EA | \$ | 1,200.00 | \$ | 70,800.00 |
| Cap and Plug Existing 6" Waterline | 1 | LS | \$ | 2,500.00 | \$ | 2,500.00 |
| | | | | Project Contingencies (25%) | \$ | 209,575.00 |
| | | | | Loganberry Circle Subtotal | \$ | 1,047,875.00 |
| | | | | Construction Total | \$ | 1,047,875.00 |

Comments/Special Project Notes:

Phase 1 (Red Bluff crossing) completed in Summer 2018.



W9
RED ACRES SUBDIVISION
WATER LINE

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YEAR: 2018

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------|----------|------|-----------------------------|------------------------|
| 8-Inch PVC Water Line | 8600 | LF | \$ 50.00 | \$ 430,000.00 |
| 8-Inch Gate Valves | 10 | EA | \$ 1,200.00 | \$ 12,000.00 |
| Fire Hydrant Assemblies | 22 | EA | \$ 4,500.00 | \$ 99,000.00 |
| Water Services | 10 | EA | \$ 1,200.00 | \$ 12,000.00 |
| Plug and Abandon 6" Waterline | 8600 | LF | \$ 5.00 | \$ 43,000.00 |
| Dewatering | 8600 | LF | \$ 25.00 | \$ 215,000.00 |
| | | | Project Contingencies (25%) | \$ 202,750.00 |
| | | | Construction Total | \$ 1,013,750.00 |

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 50,000 | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 300,000 | \$ - | \$ - | \$ - | | | \$ - |
| Total Cost | \$ 350,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

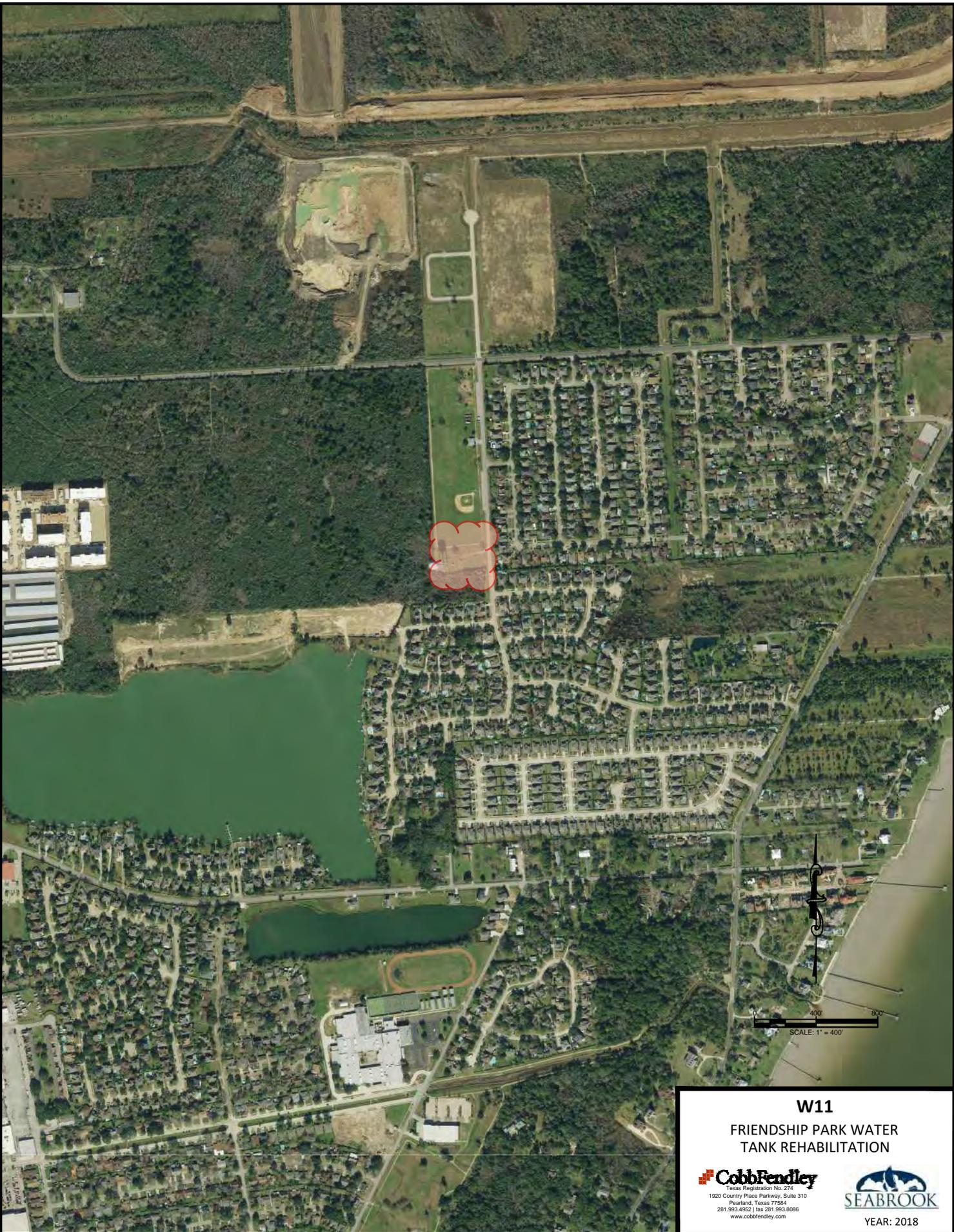
Previous CIP has project W11 estimated at \$730,000. After discussions with Tank Engineer the amount of rehabilitation needed on this tank is significantly less than original estimate. The reduction allows for funding to be reallocated to W14. overlapping years FY21.

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------|----------|------|---------------|----------------------|
| Interior Steel | 10000 | SF | \$ 10.00 | \$ 100,000.00 |
| Dehumidification and Disposal | 1 | LS | \$ 60,000.00 | \$ 60,000.00 |
| Exterior Steel | 20000 | SF | \$ 10.00 | \$ 200,000.00 |
| Shroud and Disposal | 1 | LS | \$ 110,000.00 | \$ 110,000.00 |
| Structural Allowance | 1 | LS | \$ 30,000.00 | \$ 30,000.00 |
| Project Contingencies (25%) | | | | \$ 125,000.00 |
| Construction Total | | | | \$ 625,000.00 |

Comments/Special Project Notes:

Above estimate provided based on current DEI inspection reports.



W11
FRIENDSHIP PARK WATER
TANK REHABILITATION

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SEABROOK
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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | \$ - | \$ 65,000 | | | \$ 65,000 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | \$ - | \$ - | \$ 715,313 | \$ - | | \$ 715,313 |
| Total Cost | \$ - | \$ - | \$ - | \$ 780,313 | \$ - | \$ - | \$ 780,313 |

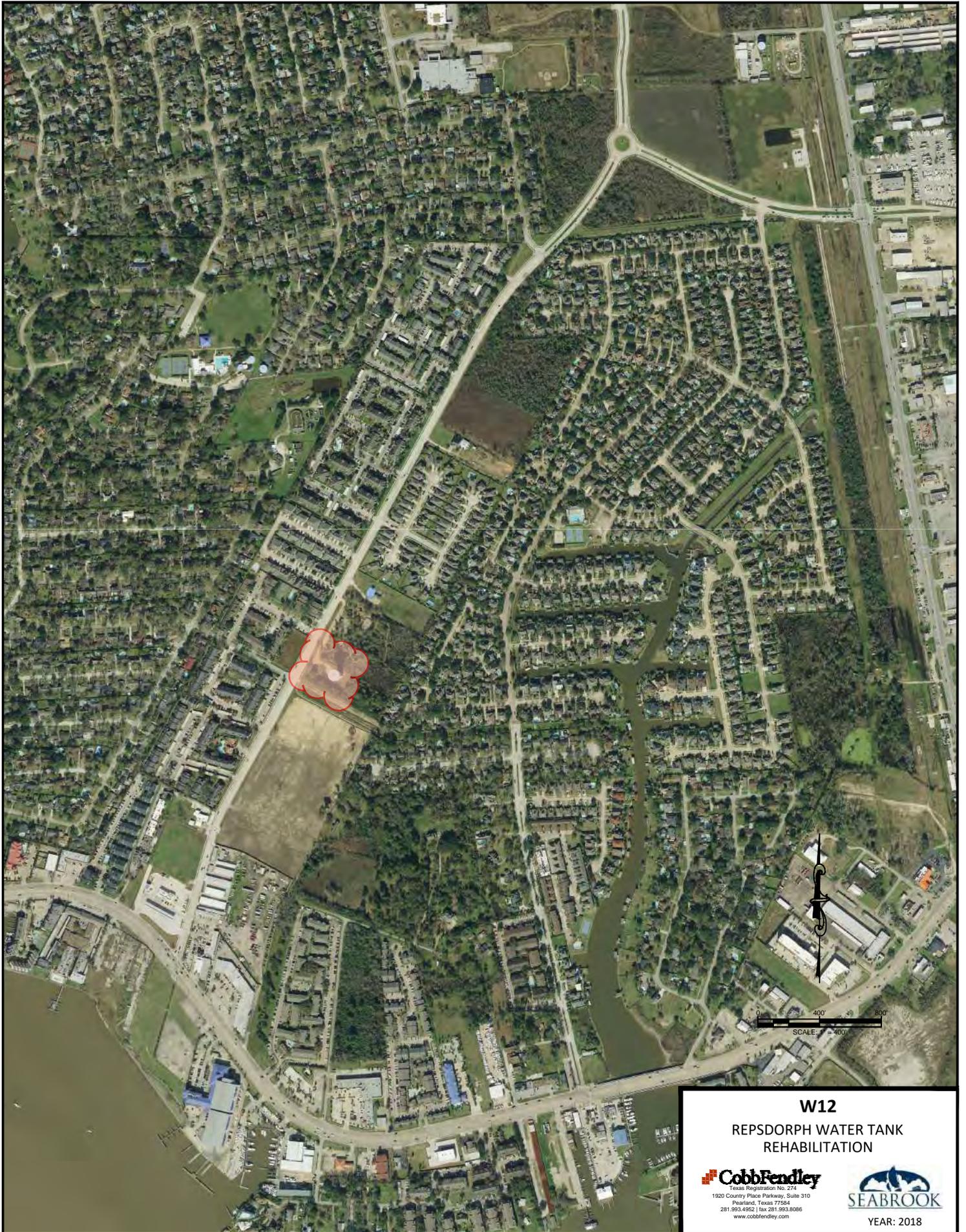
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------|----------|------|-----------------------------|----------------------|
| Interior Steel | 20000 | SF | \$ 10.00 | \$ 200,000.00 |
| Dehumidification and Disposal | 1 | LS | \$ 60,000.00 | \$ 60,000.00 |
| Exterior Steel | 15000 | SF | \$ 10.00 | \$ 150,000.00 |
| Shroud and Disposal | 1 | LS | \$ 110,000.00 | \$ 110,000.00 |
| Structural Allowance | 1 | LS | \$ 25,000.00 | \$ 25,000.00 |
| | | | Project Contingencies (25%) | \$ 136,250.00 |
| | | | Construction Total | \$ 681,250.00 |

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 creates chloramines.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 41,625 | \$ - | | | | | \$ 41,625 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 231,250 | \$ - | | | | | \$ 231,250 |
| Total Cost | \$ 272,875 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 272,875 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 272,875 | \$ - | | | | | \$ 272,875 |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 272,875 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 272,875 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|--------------|----------------------|
| Mobilization | 1 | LS | \$ 10,000.00 | \$ 10,000.00 |
| Water Plant 1 LAS disinfection in a fiberglass enclosure | 1 | LS | \$ 65,000.00 | \$ 65,000.00 |
| Water Plant 2 LAS disinfection in existing MCC room, | 1 | LS | \$ 45,000.00 | \$ 45,000.00 |
| Water Plant 3 LAS disinfection in a fiberglass enclosure | 1 | LS | \$ 65,000.00 | \$ 65,000.00 |
| Project Contingencies (25%) | | | | \$ 46,250.00 |
| Construction Total | | | | \$ 231,250.00 |

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 107,056 | \$ - | | | | | \$ 107,056 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 256,531 | \$ - | | | | | \$ 256,531 |
| Total Cost | \$ 363,587 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 363,587 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 256,531 | | | | | | \$ 256,531 |
| Impact Fees | \$ 107,056 | \$ - | | | | | \$ 107,056 |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 363,587 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 363,587 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|-------------|--------------|
| Along NASA Rd 1 | | | | |
| 12-Inch PVC Water Line | 635 | LF | \$ 90.00 | \$ 57,150.00 |
| 12-Inch PVC Water Line (Trenchless) | 595 | LF | \$ 120.00 | \$ 71,400.00 |
| 12-Inch Gate Valves | 3 | EA | \$ 2,000.00 | \$ 6,000.00 |
| Fire Hydrant Assemblies | 3 | EA | \$ 4,500.00 | \$ 13,500.00 |
| Water Services | 4 | EA | \$ 2,000.00 | \$ 8,000.00 |
| Connect to Existing 6" WL | 2 | EA | \$ 1,500.00 | \$ 3,000.00 |
| Wet Connection to Existing 12" WL | 1 | EA | \$ 3,500.00 | \$ 3,500.00 |
| Along 3rd Street | | | | |
| 12-Inch PVC Water Line | 100 | LF | \$ 90.00 | \$ 9,000.00 |
| 12-Inch PVC Water Line (Trenchless) | 460 | LF | \$ 120.00 | \$ 55,200.00 |
| 12-Inch Water inside 24" Casing | 130 | LF | \$ 675.00 | \$ 87,750.00 |

| | | | | | | |
|------------------------------------|---|----|----|-----------------------------|-----------|-------------------|
| 6-Inch Gate Valves | 4 | EA | \$ | 1,100.00 | \$ | 4,400.00 |
| Fire Hydrant Assemblies | 2 | EA | \$ | 4,500.00 | \$ | 9,000.00 |
| Water Services | 4 | EA | \$ | 1,200.00 | \$ | 4,800.00 |
| Cap and Plug Existing 6" Waterline | 2 | LS | \$ | 2,500.00 | \$ | 5,000.00 |
| | | | | Project Contingencies (20%) | \$ | 197,580.00 |
| | | | | Construction Total | \$ | 535,280.00 |

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 of possible interconnects that will be used for emergency purposes.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------------|------------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | \$ 124,588 | \$ - | | | \$ 124,588 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | \$ 622,938 | | | \$ 622,938 |
| Total Cost | \$ - | \$ - | \$ 124,588 | \$ 622,938 | \$ - | \$ - | \$ 747,525 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------------|------------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|-----------------------------|----------------------|
| 12-Inch PVC Water Line | 2870 | LF | \$ 90.00 | \$ 258,300.00 |
| 12-Inch PVC Water Line (Trenchless) | 280 | LF | \$ 120.00 | \$ 33,600.00 |
| 12-Inch Gate Valves | 7 | EA | \$ 2,000.00 | \$ 14,000.00 |
| 12-Inch Vault/Meter/Check Valve | 1 | EA | \$ 75,000.00 | \$ 75,000.00 |
| Fire Hydrant Assemblies | 7 | EA | \$ 4,500.00 | \$ 31,500.00 |
| Water Services | 6 | EA | \$ 1,200.00 | \$ 7,200.00 |
| Dewatering | 3150 | LF | \$ 25.00 | \$ 78,750.00 |
| | | | Project Contingencies (20%) | \$ 124,587.50 |
| | | | Construction Total | \$ 622,937.50 |

Comments/Special Project Notes:

Alternate water source. 12" interconnect, gives us 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
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. Entire project has been budgeted to be expensed in FY19 with amendment 2019-06

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 38,106 | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 83,900 | \$ - | | | | | \$ - |
| Total Cost | \$ 122,006 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|-------------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 122,006 | \$ - | \$ - | | | | \$ 122,006 |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ HARRIS COUNTY PG PORTION | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 122,006 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 122,006 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------------------|----------------------|
| Pine Gully | | | | |
| 12-Inch Equiv HDPE Direct Drill (Ult.) | 400 | LF | \$ 270.00 | \$ 108,000.00 |
| 12-Inch Gate Valve and Box | 1 | EA | \$ 3,500.00 | \$ 3,500.00 |
| Air Release Valve | 2 | EA | \$ 5,000.00 | \$ 10,000.00 |
| Wet Connection | 2 | EA | \$ 3,000.00 | \$ 6,000.00 |
| | | | Project Contingencies (20%) | \$ 25,500.00 |
| | | | Pine Gully Subtotal | \$ 153,000.00 |
| Hester's Gully | | | | |
| Mobilization | 1 | LS | \$ 2,800.00 | \$ 2,800.00 |
| Remove & Dispose of Existing Pipe | 1 | LS | \$ 800.00 | \$ 800.00 |
| 8-Inch HDPE (Directional Drill) | 100 | LF | \$ 120.00 | \$ 12,000.00 |
| Fire Hydrant Assembly | 2 | EA | \$ 4,000.00 | \$ 8,000.00 |

| | | | | | | |
|--------------------------------|----|----|----|--------------------------------|-----------|-------------------|
| 8-Inch Wet Connection | 2 | EA | \$ | 2,000.00 | \$ | 4,000.00 |
| Trench Safety System | 80 | LF | \$ | 5.00 | \$ | 400.00 |
| Erosion/Sediment Control | 1 | LS | \$ | 2,000.00 | \$ | 2,000.00 |
| SWPPP Inspection & Maintenance | 1 | LS | \$ | 3,000.00 | \$ | 3,000.00 |
| Reinforced Filter Fabric Fence | 80 | LF | \$ | 2.00 | \$ | 160.00 |
| Inlet Protection Barrier | 2 | EA | \$ | 40.00 | \$ | 80.00 |
| Sodding for Erosion Control | 10 | SY | \$ | 25.00 | \$ | 250.00 |
| Traffic Control | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| | | | | Project Contingencies (20%) | \$ | 7,698.00 |
| | | | | Hester's Gully Subtotal | \$ | 46,188.00 |
| | | | | Construction Total | \$ | 199,188.00 |

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 29,084 | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 74,925 | \$ - | | | | | \$ - |
| Total Cost | \$ 104,009 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|-------------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 104,009 | \$ - | \$ - | | | | \$ 104,009 |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ HARRIS COUNTY PG PORTION | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 104,009 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 104,009 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------------------|----------------------|
| Pine Gully | | | | |
| 12-Inch Equiv HDPE Direct Drill (Ult.) | 400 | LF | \$ 270.00 | \$ 108,000.00 |
| 12-Inch Gate Valve and Box | 1 | EA | \$ 3,500.00 | \$ 3,500.00 |
| Air Release Valve | 2 | EA | \$ 5,000.00 | \$ 10,000.00 |
| Wet Connection | 2 | EA | \$ 3,000.00 | \$ 6,000.00 |
| | | | Project Contingencies (20%) | \$ 25,500.00 |
| | | | Pine Gully Subtotal | \$ 153,000.00 |
| Hester's Gully | | | | |
| Mobilization | 1 | LS | \$ 2,800.00 | \$ 2,800.00 |
| Remove & Dispose of Existing Pipe | 1 | LS | \$ 800.00 | \$ 800.00 |
| 8-Inch HDPE (Directional Drill) | 100 | LF | \$ 120.00 | \$ 12,000.00 |
| Fire Hydrant Assembly | 2 | EA | \$ 4,000.00 | \$ 8,000.00 |

| | | | | | | |
|--------------------------------|----|----|----|--------------------------------|-----------|-------------------|
| 8-Inch Wet Connection | 2 | EA | \$ | 2,000.00 | \$ | 4,000.00 |
| Trench Safety System | 80 | LF | \$ | 5.00 | \$ | 400.00 |
| Erosion/Sediment Control | 1 | LS | \$ | 2,000.00 | \$ | 2,000.00 |
| SWPPP Inspection & Maintenance | 1 | LS | \$ | 3,000.00 | \$ | 3,000.00 |
| Reinforced Filter Fabric Fence | 80 | LF | \$ | 2.00 | \$ | 160.00 |
| Inlet Protection Barrier | 2 | EA | \$ | 40.00 | \$ | 80.00 |
| Sodding for Erosion Control | 10 | SY | \$ | 25.00 | \$ | 250.00 |
| Traffic Control | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| | | | | Project Contingencies (20%) | \$ | 7,698.00 |
| | | | | Hester's Gully Subtotal | \$ | 46,188.00 |
| | | | | Construction Total | \$ | 199,188.00 |

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.



0 200 400
SCALE: 1"=200'

W18
HESTER'S GULLY WATER LINE
IMPROVEMENTS

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



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: EAST MEYER PIPE BURSTING

Project Location/Limits: SH146 TO NORTH MEYER

CIP Number: WW1

Facility Type: WASTEWATER

Project Description and Justification

The 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.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ 87,500 | \$ - | | | | \$ 87,500 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | \$ 784,451 | \$ - | | | | \$ 784,451 |
| Total Cost | \$ - | \$ 871,951 | \$ - | \$ - | \$ - | \$ - | \$ 871,951 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 871,951 | | | | | | \$ 871,951 |
| Developer Contribution | | | | | | \$ - | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ 871,951 | \$ - | \$ - | \$ - | \$ - | \$ 871,951 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------|----------|------|--------------|--------------|
| Mobilization | 1 | LS | \$ 33,958.93 | \$ 33,958.93 |
| Remove and Replace Pavement | 100 | SY | \$ 126.36 | \$ 12,636.00 |
| Remove and Replace 6" Curb | 32 | LF | \$ 12.00 | \$ 384.00 |
| Sawcut Pavement | 1 | LS | \$ 2,000.00 | \$ 2,000.00 |

Install 12-Inch HDPE (IPS), SDR 19, Sanitary Sewer Pipe,
 Cell Class 445574E (Gray or Approved Equal),
 Equivalent

11.32-Inch I.D., ASTM D3350, PE 4710, by
 method of directional drilling, including

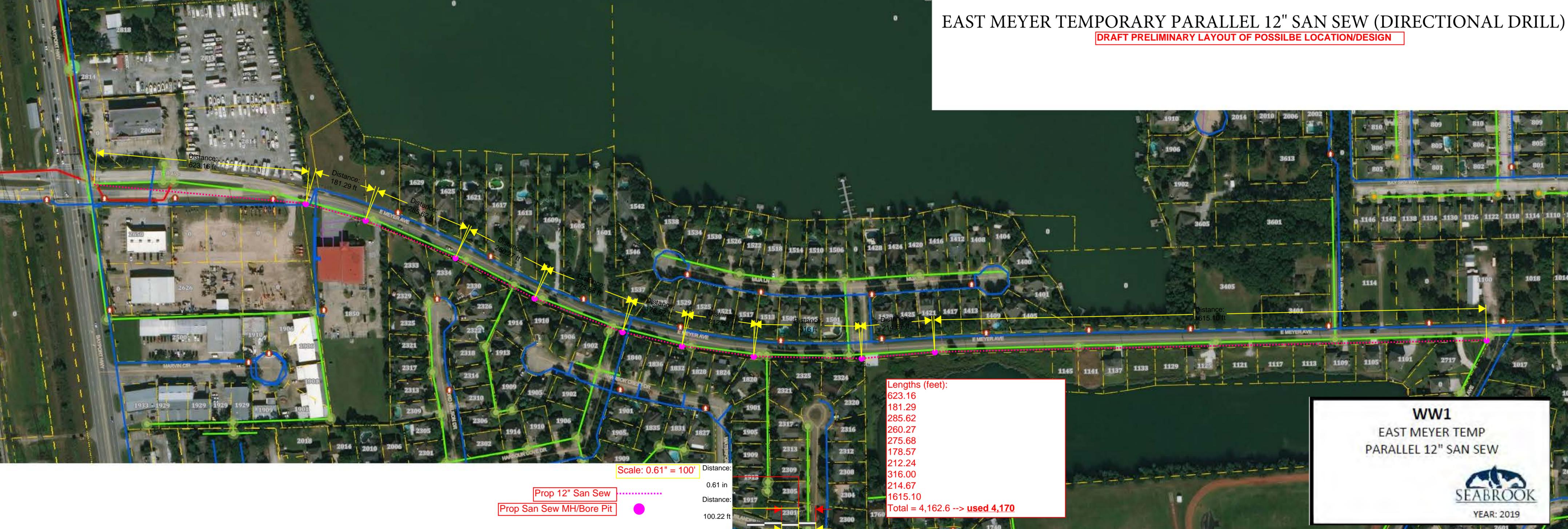
| | | | | | | |
|--|------|----|----|-----------------------------|-----------|-------------------|
| dewatering, Complete in Place | 4170 | EA | \$ | 125.00 | \$ | 521,250.00 |
| Trench Safety System | 200 | LF | \$ | 3.00 | \$ | 600.00 |
| 4-Foot Diameter Precast Manhole | 10 | LF | \$ | 8,000.00 | \$ | 80,000.00 |
| Erosion/Sediment Control | 1 | EA | \$ | 1,500.00 | \$ | 1,500.00 |
| Reinforced Filter Fabric Fence | 500 | LF | \$ | 2.00 | \$ | 1,000.00 |
| Inlet Protection Barrier | 2 | LF | \$ | 80.00 | \$ | 160.00 |
| Sodding for Erosion Control | 471 | LF | \$ | 3.50 | \$ | 1,648.50 |
| Traffic Control | 1 | EA | \$ | 30,000.00 | \$ | 30,000.00 |
| Roadside Ditch Regrading | 100 | EA | \$ | 5.00 | \$ | 500.00 |
| Dewatering | 100 | EA | \$ | 25.00 | \$ | 2,500.00 |
| Manhole Base for Wet Sand Construction | 5 | LS | \$ | 5,000.00 | \$ | 25,000.00 |
| | | | | Project Contingencies (10%) | \$ | 71,313.74 |
| | | | | Construction Total | \$ | 784,451.17 |

Comments/Special Project Notes:

The Project's need is dictated by the development remaining between Lakeside Drive and SH146, north of Repsdorph. 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



Prop 12" San Sew
 Prop San Sew MH/Bore Pit

Scale: 0.61" = 100'

Distance:
 0.61 in
 Distance:
 100.22 ft

Lengths (feet):
 623.16
 181.29
 285.62
 260.27
 275.68
 178.57
 212.24
 316.00
 214.67
 1615.10
 Total = 4,162.6 --> **used 4,170**

WW1
 EAST MEYER TEMP
 PARALLEL 12" SAN SEW

SEABROOK
 YEAR: 2019

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|------------------------------------|----------|------|---------------|---------------|
| 6-Inch Force Main | 1900 | LF | \$ 60.00 | \$ 114,000.00 |
| 6-Inch Force Main w/12-Inch Casing | 400 | LF | \$ 225.00 | \$ 90,000.00 |
| 6-Inch FM Directional Drilled | 400 | LF | \$ 225.00 | \$ 90,000.00 |
| 8-Inch Sanitary Sewer Pipe | 800 | LF | \$ 75.00 | \$ 60,000.00 |
| Dewatering | 2700 | LF | \$ 25.00 | \$ 67,500.00 |
| Manholes | 2 | EA | \$ 4,000.00 | \$ 8,000.00 |
| New Lift Station | 1 | LS | \$ 500,000.00 | \$ 500,000.00 |
| Dewatering | 400 | LF | \$ 25.00 | \$ 10,000.00 |
| Project Contingencies (25%) | | | | \$ 234,875.00 |

Comments/Special Project Notes:



WW2
SHIPYARDS SEWER SERVICE
PHASE I

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



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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 95,000 | \$ 95,000 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 587,500 | \$ 587,500 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 682,500 | \$ 682,500 |

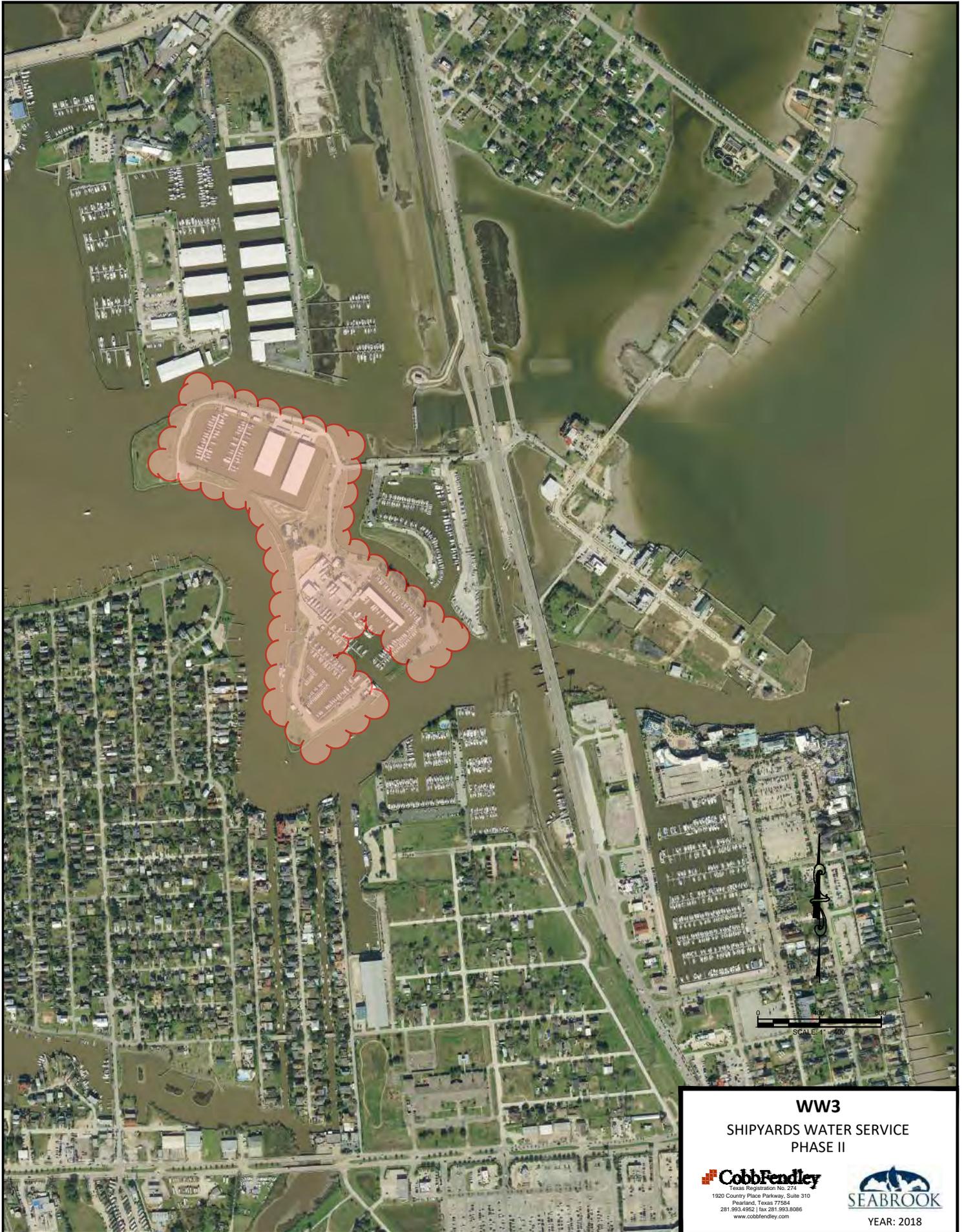
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------|----------|------|-----------------------------|----------------------|
| 8-Inch Sanitary Sewer Pipe | 3900 | LF | \$ 75.00 | \$ 292,500.00 |
| Manholes | 20 | EA | \$ 4,000.00 | \$ 80,000.00 |
| Dewatering | 3900 | LF | \$ 25.00 | \$ 97,500.00 |
| | | | Project Contingencies (25%) | \$ 117,500.00 |
| | | | Construction Total | \$ 587,500.00 |

Comments/Special Project Notes:

Project is dependent on WW2 being completed or under construction.



WW3
SHIPYARDS WATER SERVICE
PHASE II

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pasadena, Texas 77504
281.993.4952 | fax 281.993.8086
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. Additionally all manhole will be replaced with precast manholes and corrosive resisitant liner.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 369,700 | | | | | | \$ 369,700 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 911,547 | \$ - | | | | | \$ 911,547 |
| Total Cost | \$ 1,281,247 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,281,247 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------------|--------------------------------|-------------|-------------|-------------|-------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | \$ 1,281,247 | \$ - | | | | | \$ 1,281,247 |
| 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 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,281,247 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------|----------|------|--------------|---------------|
| Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| 12-Inch Sanitary Sewer Pipe | 6400 | LF | \$ 130.00 | \$ 832,000.00 |
| Services | 75 | EA | \$ 1,200.00 | \$ 90,000.00 |
| Remove Existing Manholes | 19 | EA | \$ 1,800.00 | \$ 34,200.00 |
| Remove Existing Sewer | 6400 | LF | \$ 15.00 | \$ 96,000.00 |
| Pavement Point Repair | 450 | SY | \$ 75.00 | \$ 33,750.00 |
| Manholes | 20 | EA | \$ 11,500.00 | \$ 230,000.00 |
| Dewatering | 1280 | LF | \$ 50.00 | \$ 64,000.00 |
| Bypass Pumping | 240 | DAYS | \$ 1,500.00 | \$ 360,000.00 |
| SWPPP | 1 | EA | \$ 5,000.00 | \$ 5,000.00 |

| | | | | | | |
|-----------------|---|----|----|-----------------------------|-----------|---------------------|
| Traffic Control | 1 | LS | \$ | 30,000.00 | \$ | 30,000.00 |
| | | | | Project Contingencies (15%) | \$ | 273,742.50 |
| | | | | Construction Total | \$ | 2,098,692.50 |

Comments/Special Project Notes:

Project completed 2019



WW4

**TODVILLE SEWER LINE
REPLACEMENT**

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: 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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 138,000 | | | | | | \$ 138,000 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 689,394 | \$ - | | | | | \$ 689,394 |
| Total Cost | \$ 827,394 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 827,394 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------|----------|------|-----------------------------|---------------|
| Clarifier Mechanism | | | | |
| Clarifier Demo | 1 | EA | \$ 35,000.00 | \$ 35,000.00 |
| Clarifier Mechanism | 1 | EA | \$ 195,000.00 | \$ 195,000.00 |
| Launder/Weir Replacement | 1 | EA | \$ 135,000.00 | \$ 135,000.00 |
| Weir Cleaning Equipment | 1 | EA | \$ 75,000.00 | \$ 75,000.00 |
| RAS Equipment | 1 | LS | \$ 40,000.00 | \$ 40,000.00 |
| Electrical | 1 | LS | \$ 22,500.00 | \$ 22,500.00 |
| Lift Station | | | | |
| Upgrades to Lift Station | 1 | LS | \$ 275,000.00 | \$ 275,000.00 |
| | | | Project Contingencies (20%) | \$ 155,500.00 |

Construction Total \$

933,000.00

Comments/Special Project Notes:
Project completed 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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | \$ - | | | \$ 106,800 | \$ 106,800 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | \$ - | | \$ 534,000 | \$ 534,000 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 640,800 | \$ 640,800 |

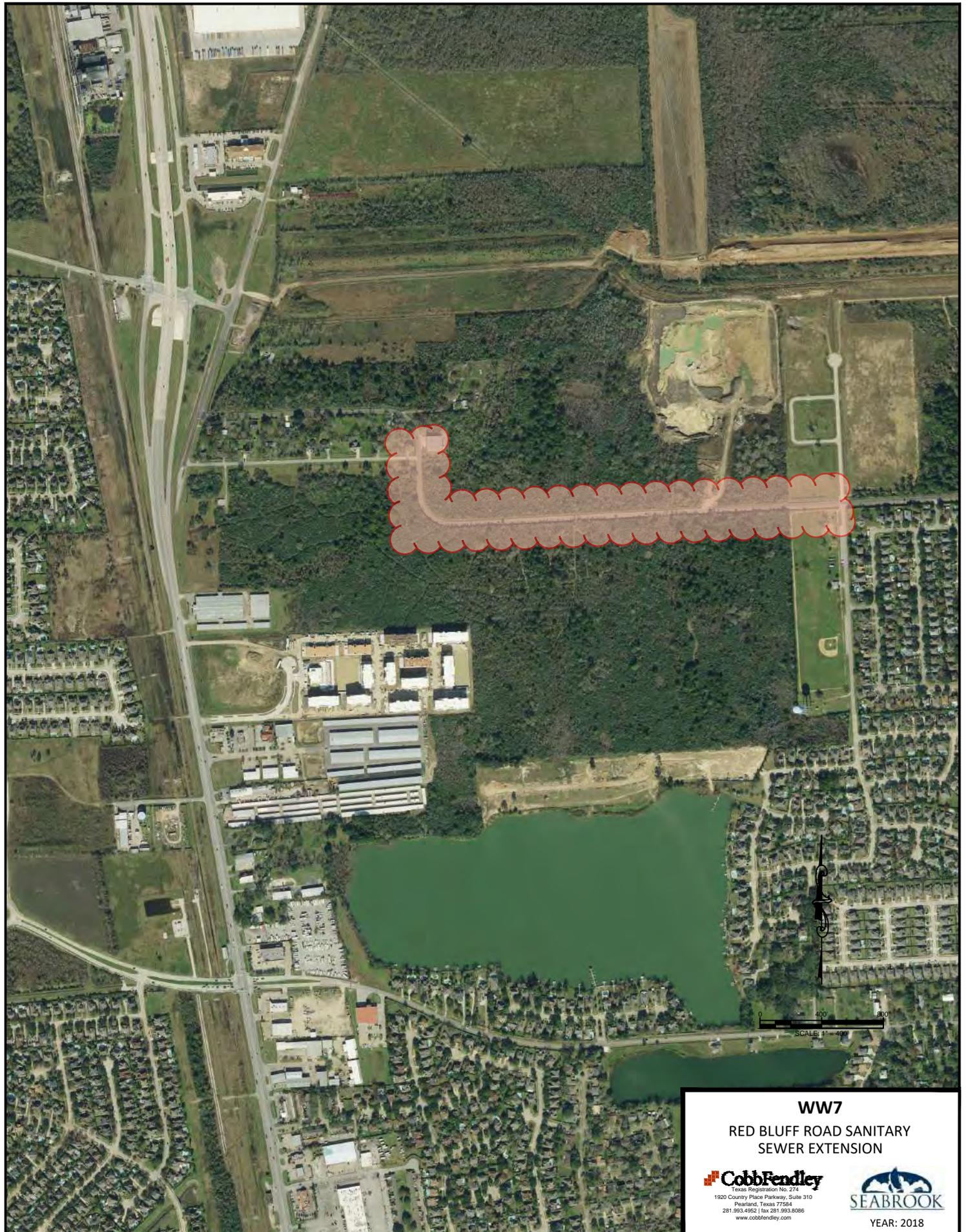
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------------|----------|------|-----------------------------|----------------------|
| 12-Inch Sanitary Sewer (Gravity) | 3200 | LF | \$ 120.00 | \$ 384,000.00 |
| Manholes | 10 | EA | \$ 5,000.00 | \$ 50,000.00 |
| Dewatering | 3200 | LF | \$ 25.00 | \$ 80,000.00 |
| | | | Project Contingencies (25%) | \$ 20,000.00 |
| | | | Construction Total | \$ 534,000.00 |

Comments/Special Project Notes:

Development driven.



WW7
RED BLUFF ROAD SANITARY
SEWER EXTENSION

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pasadena, Texas 77564
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www.cobbendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: STATE HIGHWAY 146 SANITARY SEWER IMPROVEMENTS

Project Location/Limits:

CIP Number: WW8-

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 231,155 | \$ 75,000 | | | | | \$ 306,155 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 1,847,179 | \$ - | | | | | \$ 1,847,179 |
| Total Cost | \$ 2,078,334 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,153,334 |
| FUNDING SOURCES BY FISCAL YEAR | | | | | | | |
| Funding Source | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | 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 | \$ 231,155 | \$ 75,000 | | | | | \$ 306,155 |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ SIB | \$ 1,847,179 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 1,847,179 |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 2,078,334 | \$ 75,000 | \$ - | \$ - | \$ - | \$ - | \$ 2,153,334 |

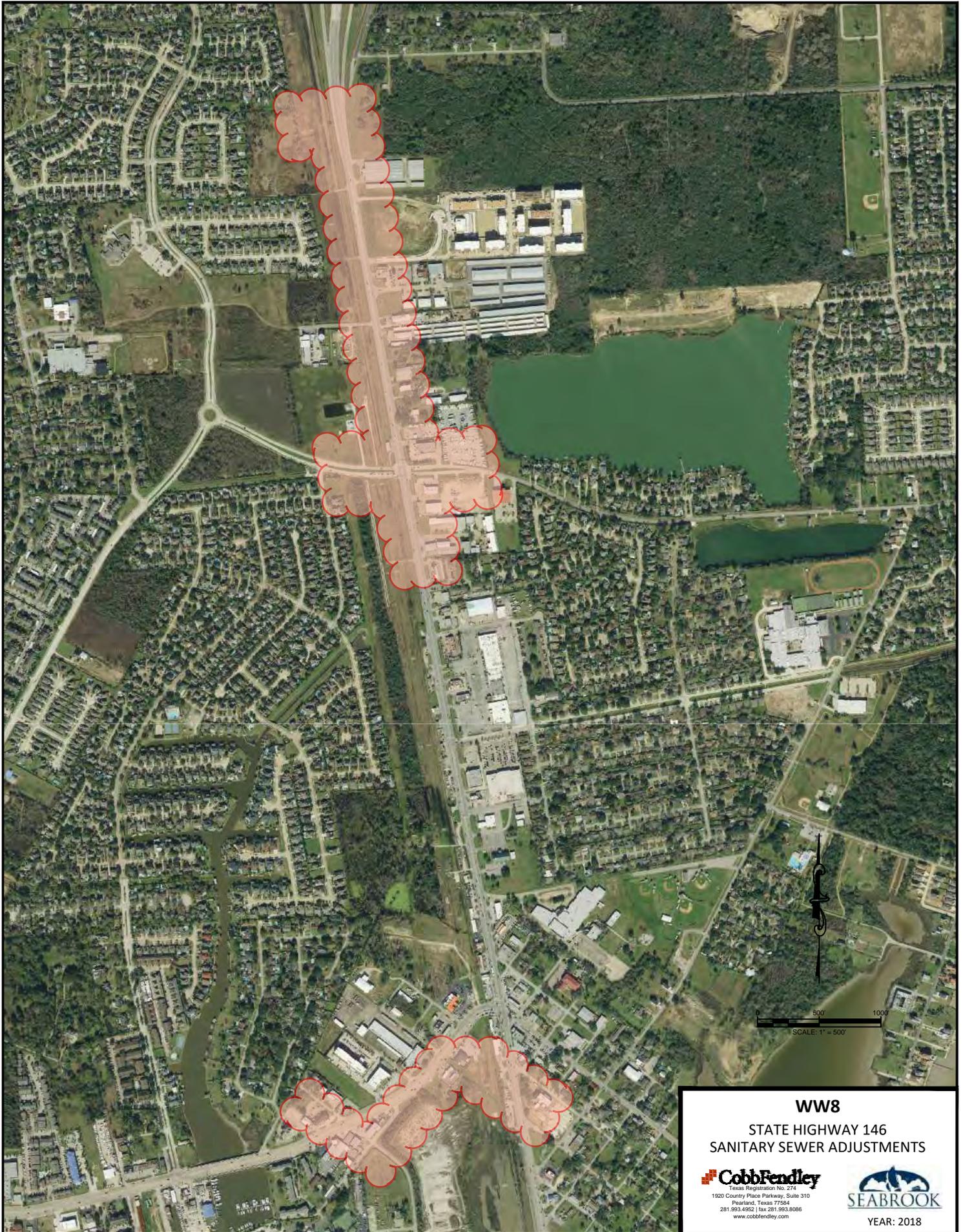
Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---|----------|------|--------------|---------------|
| Concrete | 10 | CY | \$ 87.00 | \$ 870.00 |
| 12-Inch Sanitary Sewer | 3558 | LF | \$ 235.00 | \$ 836,130.00 |
| 18-Inch Sanitary Sewer | 233 | LF | \$ 322.00 | \$ 75,026.00 |
| Sanitary Manhole | 8 | EA | \$ 5,425.00 | \$ 43,400.00 |
| Sanitary Manhole w/ Drop | 3 | EA | \$ 6,150.00 | \$ 18,450.00 |
| Tie Existing Sanitary Sewer to Prop Manhole | 4 | EA | \$ 3,700.00 | \$ 14,800.00 |
| Connection to Existing Manhole | 2 | EA | \$ 2,400.00 | \$ 4,800.00 |
| Abandon 10-Inch Sanitary Sewer | 2 | EA | \$ 30,000.00 | \$ 60,000.00 |
| Abandon 12-Inch Sanitary Sewer | 2 | EA | \$ 40,000.00 | \$ 80,000.00 |

| | | | | | | |
|-----------------------------|------|----|----|------------|-----------|---------------------|
| 6-Inch Force Main | 225 | LF | \$ | 87.00 | \$ | 19,575.00 |
| 10-Inch Force Main | 3957 | LF | \$ | 96.00 | \$ | 379,872.00 |
| 16-Inch Force Main | 321 | LF | \$ | 121.00 | \$ | 38,841.00 |
| 22-Inch Steel (Auger) | 572 | LF | \$ | 725.00 | \$ | 414,700.00 |
| 28-Inch Steel (Auger) | 186 | LF | \$ | 900.00 | \$ | 167,400.00 |
| Air Release Valve & Manhole | 2 | EA | \$ | 8,075.00 | \$ | 16,150.00 |
| Force Main Connection | 5 | EA | \$ | 3,200.00 | \$ | 16,000.00 |
| Abandon Sanitary Sewer | 1 | LS | \$ | 1,515.00 | \$ | 1,515.00 |
| Bypass Pumping | 1 | LS | \$ | 199,500.00 | \$ | 199,500.00 |
| Construction Total | | | | | \$ | 2,387,029.00 |

Comments/Special Project Notes:

The plan is to include these utility improvements with the TxDOT plans for their 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 55 SEWER.**



WW8
STATE HIGHWAY 146
SANITARY SEWER ADJUSTMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PINE GULLY WASTEWATER TREATMENT PLANT RETROFIT

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 complete infrastructure retrofit of the City's Waste Water System to include the relocation of the treatment plant from Main Street to a site located adjacent to the new Public Works facility. This project contains both phases (phase 1 - design; phase 2 - construction) of the waste water system retrofit. The City's existing WWTP suffered significant damage during Hurricane Ike due to its location to Galveston Bay.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------------|----------------------|----------------------|-------------|-------------|-------------|----------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 638,173 | \$ - | \$ - | | | | \$ 638,173 |
| Engineering/Other | \$ 3,954,715 | \$ 1,042,500 | \$ 1,042,500 | | | | \$ 6,039,715 |
| Construction | | \$ 14,634,275 | \$ 14,634,275 | | | | \$ 29,268,550 |
| Total Cost | \$ 4,592,888 | \$ 15,676,775 | \$ 15,676,775 | \$ - | \$ - | \$ - | \$ 35,946,438 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------------|--------------------------------|----------------------|-------------|-------------|-------------|----------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | \$ 1,626,852 | \$ 3,919,194 | \$ 3,919,194 | | | | \$ 9,465,239 |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | | | | | | \$ - |
| Future Bonds | | | | | | | \$ - |
| SEDC 4B Funds | | | | | | | \$ - |
| Water/Sewer Revenue Bonds | | | | | | | \$ - |
| Enterprise Utility Fund - Cash | | | | | | | \$ - |
| Impact Fees | | \$ - | \$ 1,425,000 | | | | \$ 1,425,000 |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | \$ 2,966,036 | \$ 11,757,581 | \$ 11,757,581 | | | | \$ 26,481,199 |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 4,592,888 | \$ 15,676,775 | \$ 17,101,775 | \$ - | \$ - | \$ - | \$ 37,371,438 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------|-----------------|
| 0.25 MGD Package Plant | 1 | LS | \$ 1,250,000.00 | \$ 1,250,000.00 |
| One Structural Mezzanine and | 1 | LS | \$ 150,000.00 | \$ 150,000.00 |
| Electrical Interconnection | 1 | LS | \$ 162,700.00 | \$ 162,700.00 |
| Utility Piping | 1 | LS | \$ 150,000.00 | \$ 150,000.00 |
| WWTP Foundation and Access Sidewalks | 500 | SYD | \$ 175.00 | \$ 87,500.00 |
| All Weather Access Road (Crushed Concrete) | 350 | SYD | \$ 30.00 | \$ 10,500.00 |
| Concrete Access Apron | 100 | SYD | \$ 125.00 | \$ 12,500.00 |
| Force Main from LS 20 to WWTP | 6200 | LF | \$ 100.00 | \$ 620,000.00 |
| Line Work - Boring/Casing (Excluding FM) | 100 | LF | \$ 300.00 | \$ 30,000.00 |

| | | | | |
|--|---|----|-----------------------------|------------------------|
| Upgrade Pumps | 1 | LS | \$ 150,000.00 | \$ 150,000.00 |
| Flow Measurement Incoming Fm (at WWTP) | 1 | EA | \$ 40,000.00 | \$ 40,000.00 |
| LS 19 (Breezeway) Tie into 12 inch FM on 146 | 1 | LS | \$ 75,000.00 | \$ 75,000.00 |
| 4 Ft MH with Combination Air Valves | 3 | EA | \$ 15,000.00 | \$ 45,000.00 |
| 12 Inch valve on Existing 12 FM | 1 | LS | \$ 12,000.00 | \$ 12,000.00 |
| Manual – Transfer Switch (400 AMPS) | 1 | LS | \$ 45,000.00 | \$ 45,000.00 |
| Standby Generator for .25 MGD and | 1 | LS | \$ 250,000.00 | \$ 250,000.00 |
| | | | Project Contingencies (20%) | \$ 618,040.00 |
| | | | Construction Total | \$ 3,708,240.00 |

Comments/Special Project Notes:

This project will provide the waterwater system retrofit to relocate the MSWWTP to a less prone area.. All CO surplus is earmarked contengency for grant match on new wastewater plant.



WW9
PINE GULLY WASTEWATER
TREATMENT PLANT PHASE 1A

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SEABROOK
YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: LIFT STATION NO. 5 FORCE MAIN IMPROVEMENTS

Project Location/Limits: ALONG TODVILLE FROM WATERFRONT LIFT STATION TO MAIN ST

CIP Number: WW14

Facility Type: WASTEWATER

Project Description and Justification

The purpose of this project is to increase capacity to the line to address the development at Waterfront and the shipyards.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 100,230 | \$ 100,230 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 501,150 | \$ 501,150 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 601,380 | \$ 601,380 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | | | | \$ - | \$ 601,380 | \$ 601,380 |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 601,380 | \$ 601,380 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------|----------|------|-----------------------------|----------------------|
| 8-Inch Force Main | 2100 | LF | \$ 80.00 | \$ 168,000.00 |
| 8-Inch FM Directional Drilled | 600 | LF | \$ 250.00 | \$ 150,000.00 |
| Dewatering | 2700 | LF | \$ 25.00 | \$ 67,500.00 |
| | | | Project Contingencies (30%) | \$ 115,650.00 |
| | | | Construction Total | \$ 501,150.00 |

Comments/Special Project Notes:

This project will require a USACE Permit and GLO Easement.



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

WW14

LIFT STATION NO. 5 FORCE
MAIN IMPROVEMENTS

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CLARIFIER AT MAIN STREET WWTP

Project Location/Limits: MAIN STREET WWTP

CIP Number: WW15

Facility Type: WASTEWATER

Project Description and Justification

Replacement of Clarifier No. 1 since it is reaching the end of its service life. Depends on PGWWTP progression.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 137,250 | \$ 137,250 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 686,250 | \$ 686,250 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 823,500 | \$ 823,500 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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) | | | | | | \$ 823,500 | \$ 823,500 |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 823,500 | \$ 823,500 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|-----------------------------|----------------------|
| Demolition of Mechanical Components | 1 | LS | \$ 24,000.00 | \$ 24,000.00 |
| Clarifier Rehabilitation | 1 | LS | \$ 450,000.00 | \$ 450,000.00 |
| Scum System | 1 | LS | \$ 75,000.00 | \$ 75,000.00 |
| | | | Project Contingencies (25%) | \$ 137,250.00 |
| | | | Construction Total | \$ 686,250.00 |

Comments/Special Project Notes:

This project is dependent upon the status of the Pine Gully WWTP. If all flows have not been redirected to the Pine Gully WWTP by the end of its service life, the clarifier will need to be replaced.



WW15
CLARIFIER NO. 1 REHABILITATION
AT MAIN STREET WWTP

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YEAR: 2018

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 to 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 bottle neck (restrictor) for stormwater reaching Galveston Bay.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ 601,074 | \$ - | | | | \$ 601,074 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | \$ 3,339,300 | \$ - | | | | \$ 3,339,300 |
| Total Cost | \$ - | \$ 3,940,374 | \$ - | \$ - | \$ - | \$ - | \$ 3,940,374 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|--------------|------|------|-------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | \$ - | \$ 1,970,187 | | | | |
| Other: ___ Harris County | | \$ - | \$ 1,970,187 | | | | \$ 1,970,187 |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ 3,940,374 | \$ - | \$ - | \$ - | \$ 1,970,187 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--------------------------------------|----------|------|-------------------------------------|------------------------|
| Bridge & Paving | | | | |
| Concrete Bridge (70' by 225') (Ult.) | 15750 | SF | \$ 105.00 | \$ 1,653,750.00 |
| Roadway Approaches (30' by 400') | 12000 | SF | \$ 30.00 | \$ 360,000.00 |
| Hike and Bike Trail | 400 | FT | \$ 25.00 | \$ 10,000.00 |
| | | | Bridge & Paving Subtotal | \$ 2,023,750.00 |
| Sanitary | | | | |
| Relocate Lift Station No. 1 | 1 | LS | \$ 550,000.00 | \$ 550,000.00 |
| Sanitary Gravity Line (10-Inch +) | 200 | LF | \$ 140.00 | \$ 28,000.00 |
| 10-Inch HDPE Direct Drill San. FM | 400 | LF | \$ 250.00 | \$ 100,000.00 |
| Sanitary Force Main (8-Inch) | 600 | LF | \$ 85.00 | \$ 51,000.00 |
| Sanitary Manhole w/Vent | 3 | EA | \$ 7,000.00 | \$ 21,000.00 |

| | | | | | | |
|--|------------|-----------|-----------|--------------|-----------|---------------------|
| Air Release Valve | 2 | EA | \$ | 2,000.00 | \$ | 4,000.00 |
| Dewatering | 200 | LF | \$ | 25.00 | \$ | 5,000.00 |
| Sanitary Subtotal | | | | | \$ | 759,000.00 |
| Water | | | | | | |
| 12-Inch Equiv HDPE Direct Drill (Ult.) | 0 | LF | \$ | 270.00 | \$ | - |
| 12-Inch Gate Valve and Box | 0 | EA | \$ | 3,500.00 | \$ | - |
| Air Release Valve | 0 | EA | \$ | 2,000.00 | \$ | - |
| Wet Connection | 0 | EA | \$ | 3,000.00 | \$ | - |
| Water Subtotal | | | | | \$ | - |
| Total | | | | | \$ | 2,782,750.00 |
| Project Contingencies (20%) | | | | | \$ | 556,550.00 |
| Construction Total | | | | | \$ | 3,339,300.00 |

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 their jurisdictions, as well as the United States Army Corps of Engineers (USACE). A GLO Easement would also be required. Would anticipate a cost sharing of this project with Harris County and possibly the Port of Houston Authority (POHA).



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 1000-FT EAST OF N. MEYER
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 space with the street right of way would require the ditch to be enclosed to achieve the needed depth and capacity. The intent would be to provide a 100-year storm capacity for the SH146 & Miramar area.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | \$ 3,905,527 | | | | | \$ 3,905,527 |
| Total Cost | \$ - | \$ 3,905,527 | \$ - | \$ - | \$ - | \$ - | \$ 3,905,527 |

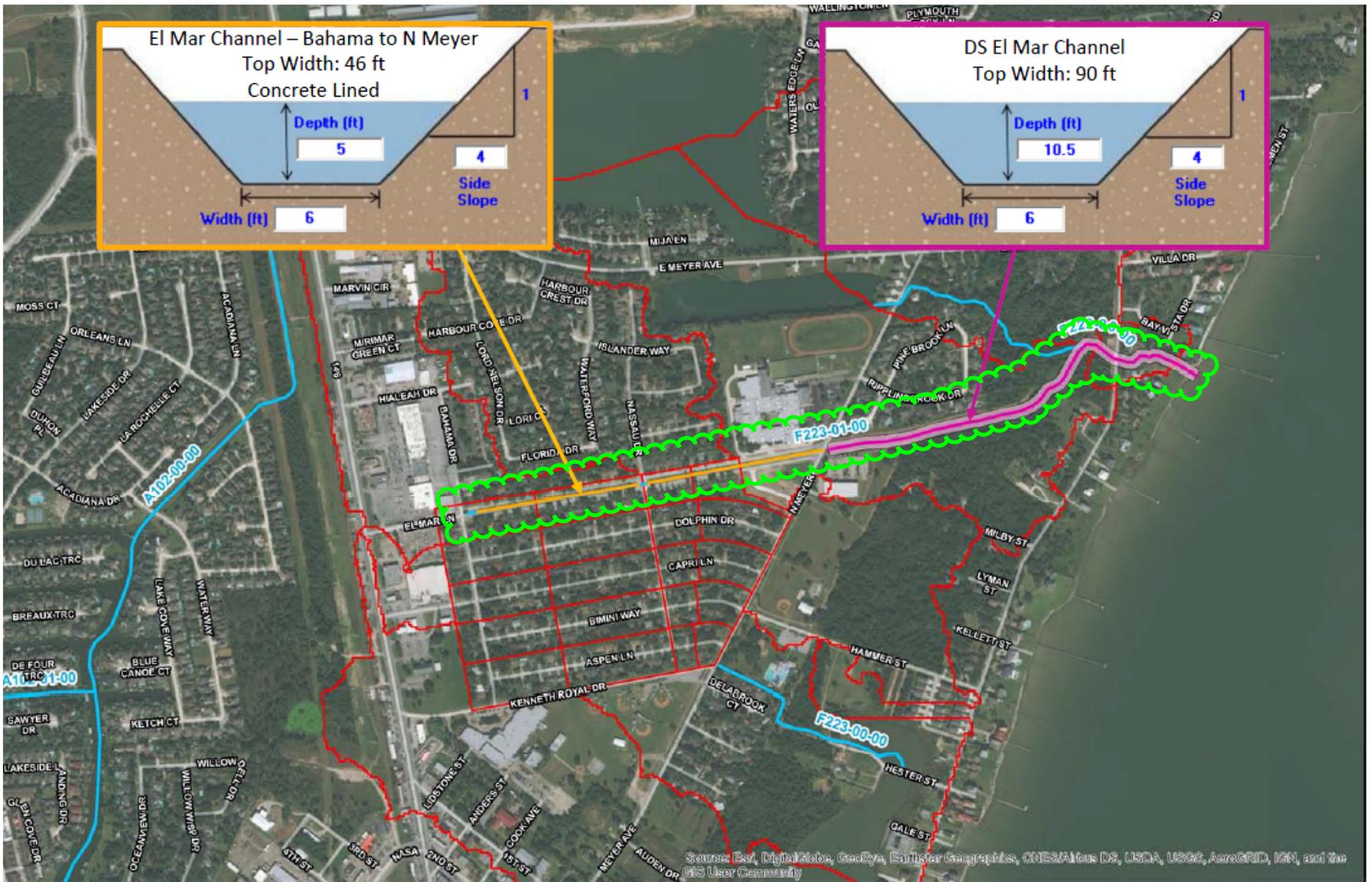
| Funding Source | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | TOTAL |
|----------------------------------|---------------|--------------|------|------|------|-------|---------------------|
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | \$ 2,000,000 | | | | | \$ 2,000,000 |
| 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(Fund/Agency) | | \$ 1,905,527 | | | | | \$ 1,905,527 |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ 3,905,527 | \$ - | \$ - | \$ - | \$ - | \$ 3,905,527 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------------|----------|------|-----------------------------|------------------------|
| Box Storm Sewer | 2800 | LF | \$ 725.00 | \$ 2,030,000.00 |
| Channel Excavation | 27500 | CY | \$ 20.00 | \$ 550,000.00 |
| Channel Excavation (Within Park) | 800 | LF | \$ 400.00 | \$ 320,000.00 |
| Backslope Swales and Interceptors | 1100 | LF | \$ 40.00 | \$ 44,000.00 |
| Trails | 2500 | LF | \$ 15.00 | \$ 37,500.00 |
| | | | Project Contingencies (30%) | \$ 894,450.00 |
| | | | Construction Total | \$ 3,875,950.00 |

Comments/Special Project Notes:

Project would require environmental permit from the USACE for the work east of N. Meyer.



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. under county review for bond funding.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 114,095 | \$ 114,095 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 671,148 | \$ 671,148 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 785,243 | \$ 785,243 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------------|----------|------|-----------------------------|----------------------|
| Clearing and Grubbing | 3 | AC | \$ 15,000.00 | \$ 45,000.00 |
| Channel Excavation (Add. 20-40ft) | 20000 | CY | \$ 10.00 | \$ 200,000.00 |
| Slope Paving | 1000 | SY | \$ 60.00 | \$ 60,000.00 |
| Backslope Swales and Interceptors | 1600 | LF | \$ 40.00 | \$ 64,000.00 |
| Pedestrian Walk Bridge (12'x100') | 1 | LS | \$ 150,000.00 | \$ 150,000.00 |
| Trails | 1600 | LF | \$ 15.00 | \$ 24,000.00 |
| | | | Project Contingencies (20%) | \$ 108,600.00 |
| | | | Construction Total | \$ 651,600.00 |

Comments/Special Project Notes:

Coordination and possible funding from Harris County Flood Control, since it is their channel. Improvements would benefit existing subdivision to the

south of Red Bluff Road.



400' 800'
SCALE: 1" = 400'

D4
WILDLIFE PARK
DRAINAGE EXPANSION

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
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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 hendering the flow of water durning 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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------|----------|------|-----------------------------|------------------------|
| Slope Paving | 9600 | SY | \$ 85.00 | \$ 816,000.00 |
| Channel Excavation | 8000 | CY | \$ 20.00 | \$ 160,000.00 |
| Clearing & Grubbing | 0.75 | AC | \$ 40,000.00 | \$ 30,000.00 |
| Culverts | 250 | LF | \$ 100.00 | \$ 25,000.00 |
| | | | Project Contingencies (20%) | \$ 206,200.00 |
| | | | Construction Total | \$ 1,237,200.00 |

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---|----------|------|---------------|------------|
| GENERAL ITEMS | | | | |
| Mobilization, 5% Maximum of Total Contract Amount | 1 | LS | \$ 90,000.00 | \$ 90,000 |
| Clearing and Grubbing | 10 | AC | \$ 15,000.00 | \$ 150,000 |
| PINE GULLY CHANNEL TOTAL | | | | |
| Channel Excavation Including Haul-Off and Disposal (170' Wide Channel, 4' Deep, 30' Bottom, 2600 LF Long) | 27,000 | CY | \$ 30.00 | \$ 810,000 |
| Hydromulch Seeding | 4 | AC | \$ 3,000.00 | \$ 12,000 |
| PINE GULLY TRIBUTARY | | | | |
| Channel Excavation Including Haul-Off and Disposal (40') | 1,200 | CY | \$ 30.00 | \$ 36,000 |
| Hydromulch Seeding | 1 | AC | \$ 3,000.00 | \$ 3,000 |
| PINE GULLY ROAD BRIDGE | | | | |
| Prefabricated Concrete Bridge | 1 | EA | \$ 200,000.00 | \$ 200,000 |

| | | | | | | | |
|--|-----|------|----|------------|-----------------------------|------------|---------------------|
| Roadway Embankment | 400 | CY | \$ | 30.00 | \$ | 12,000 | |
| Remove Pavement | 600 | SY | \$ | 6.00 | \$ | 3,600 | |
| Asphalt Pavement Base (Type B) | 200 | TONS | \$ | 100.00 | \$ | 20,000 | |
| Asphalt Pavement Final (Type D) | 50 | TONS | \$ | 150.00 | \$ | 7,500 | |
| Signing and Striping | 1 | LS | \$ | 500.00 | \$ | 500 | |
| Temporary Detour | 1 | LS | \$ | 50,000.00 | \$ | 50,000 | |
| Sodding | 120 | SY | \$ | 4.00 | \$ | 480 | |
| BOARDWALK | | | | | | | |
| Pedestrian Bridge & Boardwalk (12'x200') | 1 | LS | \$ | 200,000.00 | \$ | 200,000.00 | |
| Sodding | 75 | SY | \$ | 4.00 | \$ | 300.00 | |
| | | | | | Project Contingencies (30%) | \$ | 478,614.00 |
| | | | | | Construction Total | \$ | 2,073,994.00 |

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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SEABROOK
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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 65,000 | \$ 65,000 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 280,800 | \$ 280,800 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 345,800 | \$ 345,800 |

| Funding Source | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------------|----------|------|-----------------------------|----------------------|
| Reinforced Concrete Pipe | 1100 | LF | \$ 110.00 | \$ 121,000.00 |
| Remove and Replace Concrete D/W's | 1500 | SF | \$ 10.00 | \$ 15,000.00 |
| Clearing and Grubbing | 1 | LS | \$ 15,000.00 | \$ 15,000.00 |
| Concrete Inlets | 5 | EA | \$ 4,000.00 | \$ 20,000.00 |
| Outfall Structure | 1 | LS | \$ 20,000.00 | \$ 20,000.00 |
| Remove and Replace Fence | 1 | LS | \$ 15,000.00 | \$ 15,000.00 |
| Regrading of Open Ditch Section | 1000 | LF | \$ 10.00 | \$ 10,000.00 |
| | | | Project Contingencies (30%) | \$ 64,800.00 |
| | | | Construction Total | \$ 280,800.00 |

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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Pasland, Texas 77564
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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: WATER WAY OUTFALL
Project Location/Limits: OUTFALL LOCATED ON 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.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ - | \$ - | \$ 13,938 | | | | \$ 13,938 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ - | \$ 69,688 | | | | | \$ 69,688 |
| Total Cost | \$ - | \$ - | \$ 83,625 | \$ - | \$ - | \$ - | \$ 83,625 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | | \$ 83,625 | | | | \$ 83,625 |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ 83,625 | \$ - | \$ - | \$ - | \$ 83,625 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--------------------------------|----------|------|--------------|--------------|
| DU LAC TRACE OUTFALL | | | | |
| 36" HDPE Storm Pipe | 50 | LF | \$ 140.00 | \$ 7,000.00 |
| Remove 36" CMP | 50 | LF | \$ 15.00 | \$ 750.00 |
| Coffer Dam | 1 | LS | \$ 15,000.00 | \$ 15,000.00 |
| Dewatering | 1 | LS | \$ 4,000.00 | \$ 4,000.00 |
| Outfall Structure | 1 | LS | \$ 20,000.00 | \$ 20,000.00 |
| Remove and Replace Fence | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| Replace Existing Storm Manhole | 1 | LS | \$ 9,000.00 | \$ 9,000.00 |
| WATER WAY OUTFALL | | | | |
| 36" HDPE Storm Pipe | 50 | LF | \$ 140.00 | \$ 7,000.00 |
| Remove 36" CMP | 50 | LF | \$ 15.00 | \$ 750.00 |

| | | | | | | |
|--------------------------------|---|----|----|-----------------------------|-----------|------------------|
| Coffer Dam | 1 | LS | \$ | 15,000.00 | \$ | 15,000.00 |
| Dewatering | 1 | LS | \$ | 4,000.00 | \$ | 4,000.00 |
| Outfall Structure | 1 | LS | \$ | 20,000.00 | \$ | 20,000.00 |
| Replace Existing Storm Manhole | 1 | LS | \$ | 9,000.00 | \$ | 9,000.00 |
| SEASCAPE OUTFALL | | | | | | |
| 36" HDPE Storm Pipe | 0 | LF | \$ | 140.00 | \$ | - |
| Remove 36" CMP | 0 | LF | \$ | 15.00 | \$ | - |
| Coffer Dam | 0 | LS | \$ | 15,000.00 | \$ | - |
| Dewatering | 0 | LS | \$ | 4,000.00 | \$ | - |
| Outfall Structure | 0 | LS | \$ | 20,000.00 | \$ | - |
| Replace Existing Storm Manhole | 0 | LS | \$ | 9,000.00 | \$ | - |
| | | | | Project Contingencies (25%) | \$ | 13,937.50 |
| | | | | Construction Total | \$ | 69,687.50 |

Comments/Special Project Notes:



D9

DU LAC TRACE, WATER WAY
& SEASCAPE OUTFALL

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Pasadena, Texas 77564
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YEAR: 2018

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|---------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | \$ - | \$ - | \$ - | \$ - | \$ 820,500.00 | \$ 820,500 |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 820,500 | \$ 820,500 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------------|----------|------|-----------------------------|---------------|
| BAYWOOD DRIVE BRIDGE | | | | |
| Prefabricated Concrete Bridge | 1 | EA | \$ 225,000.00 | \$ 225,000.00 |
| Roadway Embankment | 400 | CY | \$ 30.00 | \$ 12,000.00 |
| Remove Pavement | 600 | SY | \$ 6.00 | \$ 3,600.00 |
| Asphalt Pavement Base (Type B) | 200 | TONS | \$ 120.00 | \$ 24,000.00 |
| Asphalt Pavement Final (Type D) | 50 | TONS | \$ 200.00 | \$ 10,000.00 |
| Concrete Driveways | 100 | SY | \$ 85.00 | \$ 8,500.00 |
| Signing and Striping | 1 | LS | \$ 1,000.00 | \$ 1,000.00 |
| Temporary Detour | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| Tree Protection | 1 | LS | \$ 500.00 | \$ 500.00 |
| Sodding | 100 | SY | \$ 4.00 | \$ 400.00 |
| | | | Project Contingencies (30%) | \$ 100,500.00 |

Construction Total \$

435,500.00

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.



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

D10
BAYWOOD BRIDGE
IMPROVEMENTS

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SEABROOK
YEAR: 2018

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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | | \$ - |
| Total Cost | \$ 38,000 | \$ 960,000 | \$ - | \$ - | \$ - | \$ - | \$ 998,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | \$ 499,000 | | | | | \$ 499,000 |
| 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 | \$ 38,000.00 | \$ 461,000 | \$ - | \$ - | | | \$ 499,000 |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 38,000 | \$ 960,000 | \$ - | \$ - | \$ - | \$ - | \$ 998,000 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------|----------|------|------------|------------|
| BAYWOOD DRIVE BRIDGE | | | | |

Construction Total \$ -

Comments/Special Project Notes:

Project being overseen by Harris County.

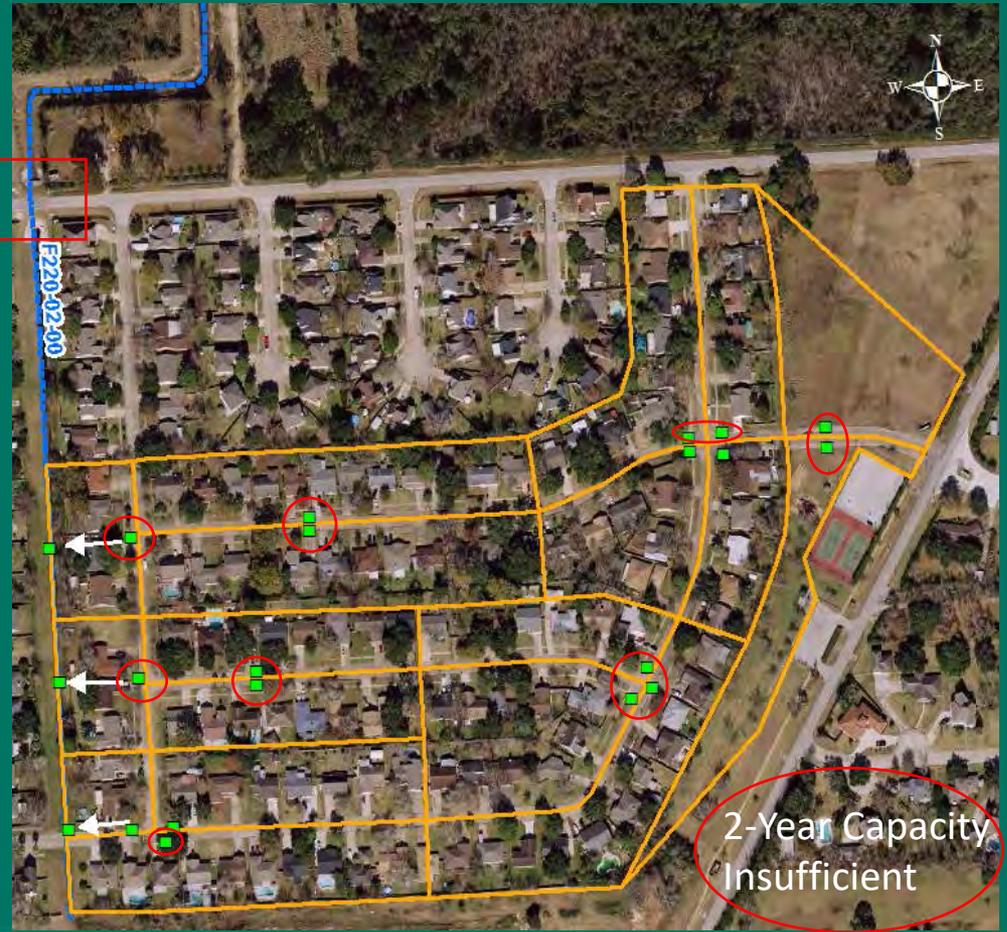
Storm Sewer System

- ❖ 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

SEASCOPE 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

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

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|--------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 7,300,759 | \$ 7,300,759 |
| Total Cost | | \$ - | \$ - | \$ - | \$ - | \$ 7,300,759 | \$ 7,300,759 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|--------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | |
| Other: ___harris county | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 7,300,759 | \$ 3,650,380 |

Opinion of Probable Construction Cost Estimate

| ITEM NO. | SPEC NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | AMOUNT |
|----------|---------------------------------------|--|------|-----------|--------------|--------------|
| A | SITE PREPARATION AND EARTHWORK | | | | | |
| 1 | Div 0 | Mobilization | LS | 1.00 | \$151,283.06 | \$151,283.06 |
| 2 | Drawing | Project Sign | EA | 2.00 | \$1,000.00 | \$2,000.00 |
| 3 | 102 | Clearing and Grubbing | STA | 11.50 | \$3,500.00 | \$40,250.00 |
| 4 | 465 | Remove and Dispose of Existing Concrete or Metal Pipe (18"-36") | LF | 7,836.00 | \$38.00 | \$297,768.00 |
| 5 | 495 | Removing Old Structures - Waterlines | LF | 0.00 | \$12.00 | \$0.00 |
| 6 | COH-02221 | Removing Sanitary | LF | 0.00 | \$12.00 | \$0.00 |
| 7 | 495 | Removing Old Structures – Inlets (All Depths) | EA | 109.00 | \$500.00 | \$54,500.00 |
| 8 | 500 | Remove & Dispose Traffic Signs, Mail Boxes and Roadway Signs | LS | 1.00 | \$5,000.00 | \$5,000.00 |
| 9 | 530 | Reinforced Concrete Sidewalks (5") | SY | 1,895.00 | \$90.00 | \$170,550.00 |
| 10 | 530 | ADA Ramp - Type 9 | EA | 21.00 | \$1,250.00 | \$26,250.00 |
| 11 | 540 | Remove and Dispose Existing Asphaltic Surface and Base Material (All Depths) | SY | 24,360.00 | \$5.00 | \$121,800.00 |
| 12 | 559 | Construction Safety Fence | LF | 17,248.00 | \$3.00 | \$51,744.00 |

| | | | | | | |
|---------------------------|--|---|-----|-----------|-------------|-----------------------|
| 13 | 561 | Video Recording Construction | LS | 1.00 | \$5,000.00 | \$5,000.00 |
| Subtotal of Item A | | | | | | \$926,145.06 |
| B | PAVING | | | | | |
| 14 | 230 | Crushed Aggregate Base Course (6" Depth) | SY | 24,360.00 | \$2.00 | \$48,720.00 |
| 15 | 360 | Concrete Pavement (6") | SY | 24,360.00 | \$35.00 | \$852,600.00 |
| 16 | 220 | Lime Stabilized Subgrade (6" Depth) | SY | 24,360.00 | \$2.00 | \$48,720.00 |
| 17 | 221 | Hydrated Lime (Ty A) (Dry) | TON | 140.00 | \$150.00 | \$21,000.00 |
| Subtotal of Item B | | | | | | \$971,040.00 |
| C | STORM SEWER | | | | | |
| 18 | 429 | Trench Safety System (5' to 10') | LF | 7,830.00 | \$0.50 | \$3,915.00 |
| 19 | 480 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (24") | LF | 0.00 | \$70.00 | \$0.00 |
| 20 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (30") | LF | 50.00 | \$100.00 | \$5,000.00 |
| 21 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (36") | LF | 4,526.00 | \$120.00 | \$543,120.00 |
| 22 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (42") | LF | 285.00 | \$150.00 | \$42,750.00 |
| 23 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (48") | LF | 777.00 | \$175.00 | \$135,975.00 |
| 24 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (54") | LF | 853.00 | \$220.00 | \$187,660.00 |
| 25 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (60") | LF | 230.00 | \$260.00 | \$59,800.00 |
| 26 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (66") | LF | 225.00 | \$310.00 | \$69,750.00 |
| 27 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (72") | LF | 463.00 | \$350.00 | \$162,050.00 |
| 28 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (78") | LF | 1,170.00 | \$400.00 | \$468,000.00 |
| 29 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (84") | LF | 280.00 | \$450.00 | \$126,000.00 |
| 30 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (90") | LF | 76.00 | \$500.00 | \$37,800.00 |
| 31 | 460 | Reinforced Concrete Pipe, C76, Class III, Rubber Gasket (96") | LF | 260.00 | \$600.00 | \$156,000.00 |
| 32 | 471 | Junction Box | EA | 41.00 | \$10,000.00 | \$410,000.00 |
| 33 | 472 | Type BB Inlets | EA | 78.00 | \$3,000.00 | \$234,000.00 |
| Subtotal of Item C | | | | | | \$2,641,520.00 |
| D | CHANNEL IMPROVEMENTS | | | | | |
| 34 | 120 | Channel Excavation | CY | 21,832.63 | \$15.00 | \$327,489.44 |
| Subtotal of Item D | | | | | | \$327,489.44 |
| E | TRAFFIC CONTROL PLAN | | | | | |
| 35 | 671 | Temporary Residential Driveways - Furnish-Install & Remove | EA | 165.00 | \$800.00 | \$132,000.00 |
| 36 | 671 | Temporary Commercial Driveways - Furnish-Install & Remove | EA | 8.00 | \$2,000.00 | \$16,000.00 |
| Subtotal of Item E | | | | | | \$148,000.00 |
| F | SIGNING AND PAVEMENT MARKINGS | | | | | |
| 37 | 624 | Aluminum Signs (Ground Mounted)- Furnish & Install | EA | 92.00 | \$300.00 | \$27,600.00 |
| Subtotal of Item F | | | | | | \$27,600.00 |
| G | TRAFFIC SIGNAL | | | | | |
| Subtotal of Item G | | | | | | \$0.00 |
| H | STORM WATER POLLUTION PREVENTION PLAN | | | | | |
| 38 | 162 | Sodding for Erosion Control (Various Widths) | SY | 7,030.00 | \$5.25 | \$36,907.50 |
| 39 | 165 | Hydromulch Seeding | SY | 2,425.85 | \$2.50 | \$6,064.62 |
| 40 | 708 | Filter Fabric Fence (60% of unit cost for furnish and installation and 40% of unit cost for removal) | LF | 15,660.00 | \$1.00 | \$15,660.00 |
| 41 | 724 | Stabilized Construction Access (Type 1-Rock; 60% of unit cost for furnish and installation, and 40% of unit cost for removal) | EA | 2.00 | \$1,250.00 | \$2,500.00 |
| 42 | 730 | Concrete Truck Washout Structures (60% of unit cost for furnish and installation, and 40% of unit cost for removal) | SY | 75.00 | \$15.00 | \$1,125.00 |
| Subtotal of Item H | | | | | | \$62,257.12 |
| I | ** EXTRA WORK ITEMS | | | | | |
| 43 | | Extra ROW acquisition | SQ | 15,000.00 | \$6.00 | \$90,000.00 |
| Subtotal of Item I | | | | | | \$90,000.00 |

| | |
|----------------------------|----------|
| Summary of Estimate | |
| Stage: | Proposal |

| Stage | Proposed |
|--|----------------|
| Total Amount for Roadway: | \$5,194,051.62 |
| Total Amount for Survey: | \$259,702.58 |
| Total Amount for Engineering: | \$457,076.54 |
| Soils Investigation and Drainage Report (20% of Eng) | \$91,415.31 |
| 25% Contingency | \$1,298,512.91 |
| Total Amount for ROW/Easements: | \$90,000.00 |
| Total Amount for Pvt Utility Relocation: | UNKNOWN |
| Total Including Engineering, Survey and Contingency: | \$7,300,758.96 |



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 CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYBROOK SECTION 1 - BROOKWOOD CT
Project Location/Limits: FROM CURB RETURN OF N. MEYER AVE TO CUL-DE-SAC
CIP Number: S3
Facility Type: STREET

Project Description and Justification

This project is one phase of a three phase project to replace the concrete pavement in Baybrook Section 1.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY20 | FY21 | FY22 | FY23 | FY24+ | |
| Engineering/Planning | \$ 53,772 | | | | | | \$ 53,772 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 212,821 | | | | | | \$ 212,821 |
| Total Cost | \$ 266,593 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 266,593 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY20 | FY21 | FY22 | FY23 | FY24+ | |
| General Fund -Cash | \$ 266,593 | | | | | | \$ 266,593 |
| 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 | | | | | | | \$ - |
| Total Funding | \$ 266,593 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 266,593 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------------|----------|------|--------------|--------------|
| Mobilization | 1 | LS | \$ 10,500.00 | \$ 10,500.00 |
| Tree and Plant Protection | 1 | LS | \$ 500.00 | \$ 500.00 |
| Remove Existing Tree | 1 | LS | \$ 500.00 | \$ 500.00 |
| Remove Existing Misc Pavement | 2100 | SY | \$ 8.00 | \$ 16,800.00 |
| Remove Existing Storm | 350 | LF | \$ 15.00 | \$ 5,250.00 |
| Lime Stabilized Subgrade | 1750 | SY | \$ 3.75 | \$ 6,562.50 |
| Type B, Commerical Lime Slurry | 20 | TON | \$ 190.00 | \$ 3,800.00 |
| 6" Black Base (Type B) | 36 | TON | \$ 140.00 | \$ 5,040.00 |
| 2" HMAC | 12 | TON | \$ 175.00 | \$ 2,100.00 |
| 6" Reinforced Concrete Pavement | 1650 | SY | \$ 60.00 | \$ 99,000.00 |
| Concrete Pavement for Driveways | 2860 | SF | \$ 6.00 | \$ 17,160.00 |

| | | | | | | |
|---------------------------------------|-----|----|----|-----------------------------|-----------|-------------------|
| 4 x12" Concrete Curb | 900 | LF | \$ | 5.00 | \$ | 4,500.00 |
| Concrete Pavement Header | 28 | LF | \$ | 20.00 | \$ | 560.00 |
| 4 1/2" Concrete Sidewalk | 264 | SF | \$ | 8.00 | \$ | 2,112.00 |
| 12-Inch PVC (SDR 26) | 120 | LF | \$ | 68.00 | \$ | 8,160.00 |
| 18-Inch RCP (Type III) | 50 | LF | \$ | 115.00 | \$ | 5,750.00 |
| Grate Top | 2 | EA | \$ | 200.00 | \$ | 400.00 |
| Concrete Paving for Drainage Channels | 8 | SY | \$ | 60.00 | \$ | 480.00 |
| Erosion/Sediment Control | 2 | EA | \$ | 350.00 | \$ | 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ | 2,000.00 | \$ | 2,000.00 |
| Inlet Protection Barrier | 3 | EA | \$ | 100.00 | \$ | 300.00 |
| Sodding for Erosion Control | 250 | SY | \$ | 5.00 | \$ | 1,250.00 |
| Traffic Control and Regulation | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| Cement Stabalized Sand | 100 | CY | \$ | 50.00 | \$ | 5,000.00 |
| Bank Sand | 25 | CY | \$ | 100.00 | \$ | 2,500.00 |
| | | | | Project Contingencies (10%) | \$ | 20,592.45 |
| | | | | Construction Total | \$ | 226,516.95 |

Comments/Special Project Notes:

Project completed in 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SEASCAPE II STREET IMPROVEMENTS

Project Location/Limits: ALL STREETS (W. FLAMINGO, N. HERON, ALBATROSS, SANDPIPER, ALLEGRO, BEECHCRAFT, 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 back in the early 1960's and late 1970's.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | \$ - | | \$ 735,642 | \$ 735,642 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | \$ - | \$ - | \$ 3,678,212 | \$ 3,678,212 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4,413,855 | \$ 4,413,855 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | | | | | | \$ - |
| Future Bonds | | | \$ - | \$ - | \$ - | \$ 2,823,855 | \$ 2,823,855 |
| SEDC 4B Funds | | | | | | | \$ - |
| Water/Sewer Revenue Bonds | | | | | | | \$ - |
| Enterprise Utility Fund - Cash | | | | | | | \$ - |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | | | | | | \$ 1,590,000 | \$ 1,590,000 |
| TBD | | | | | | | |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 4,413,855 | \$ 4,413,855 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------------------|----------|------|--------------|-----------------|
| Mobilization | 1 | LS | \$ 75,000.00 | \$ 75,000.00 |
| Tree and Plant Protection | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Remove Existing Concrete Pavement | 23854 | SY | \$ 8.00 | \$ 190,832.00 |
| Remove Existing Driveways & Sidewalks | 5430 | SY | \$ 8.00 | \$ 43,440.00 |
| Lime Stabilized Subgrade | 25762 | SY | \$ 4.25 | \$ 109,489.86 |
| Type B, Commerical Lime Slurry | 464 | TON | \$ 190.00 | \$ 88,107.13 |
| 6" Black Base (Type B) | 110 | TON | \$ 100.00 | \$ 11,000.00 |
| 2" HMAc | 40 | TON | \$ 175.00 | \$ 7,000.00 |
| 6" Reinforced Concrete Pavement | 23854 | SY | \$ 60.00 | \$ 1,431,240.00 |
| Concrete Pavement for Driveways | 48870 | SF | \$ 7.00 | \$ 342,090.00 |
| 4 x12" Concrete Curb | 14950 | LF | \$ 5.00 | \$ 74,750.00 |
| 4 1/2" Concrete Sidewalk | 32300 | SF | \$ 8.00 | \$ 258,400.00 |
| Inlet | 20 | EA | \$ 3,500.00 | \$ 70,000.00 |
| Concrete Pipe | 2000 | LF | \$ 115.00 | \$ 230,000.00 |
| Manhole | 10 | EA | \$ 4,000.00 | \$ 40,000.00 |

| | | | | | | |
|---------------------------------------|------|----|----|-----------------------------|-----------|---------------------|
| Concrete Paving for Drainage Channels | 130 | SY | \$ | 60.00 | \$ | 7,800.00 |
| Erosion/Sediment Control | 2 | EA | \$ | 350.00 | \$ | 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| Inlet Protection Barrier | 8 | EA | \$ | 100.00 | \$ | 800.00 |
| Reinforced Filter Fabric Fence | 2000 | LF | \$ | 5.00 | \$ | 10,000.00 |
| Sodding for Erosion Control | 8306 | SY | \$ | 5.00 | \$ | 41,527.78 |
| Traffic Control and Regulation | 1 | LS | \$ | 25,000.00 | \$ | 25,000.00 |
| | | | | Project Contingencies (20%) | \$ | 613,035.35 |
| | | | | Construction Total | \$ | 3,678,212.13 |

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

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



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 1970's.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | \$ - | \$ 657,519 | \$ 657,519 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | \$ - | \$ 3,287,595 | \$ 3,287,595 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 3,945,114 | \$ 3,945,114 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | | | | | | \$ - |
| Future Bonds | | | | \$ - | \$ - | \$ 3,945,114 | \$ 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 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 3,945,114 | \$ 3,945,114 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------------------|----------|------|--------------|-----------------|
| Mobilization | 1 | LS | \$ 80,000.00 | \$ 80,000.00 |
| Tree and Plant Protection | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Remove Existing Concrete Pavement | 19288 | SY | \$ 8.00 | \$ 154,304.00 |
| Remove Existing Driveways & Sidewalks | 4950 | SY | \$ 8.00 | \$ 39,600.00 |
| Lime Stabilized Subgrade | 20831 | SY | \$ 4.25 | \$ 88,531.92 |
| Type B, Commerical Lime Slurry | 375 | TON | \$ 190.00 | \$ 71,242.16 |
| 6" Black Base (Type B) | 20 | TON | \$ 100.00 | \$ 2,000.00 |
| 2" HMAC | 60 | TON | \$ 175.00 | \$ 10,500.00 |
| 6" Reinforced Concrete Pavement | 19288 | SY | \$ 60.00 | \$ 1,157,280.00 |
| Concrete Pavement for Driveways | 44550 | SF | \$ 7.00 | \$ 311,850.00 |
| 4 x12" Concrete Curb | 12418 | LF | \$ 5.00 | \$ 62,090.00 |
| 4 1/2" Concrete Sidewalk | 38820 | SF | \$ 8.00 | \$ 310,560.00 |
| Inlet | 22 | EA | \$ 3,500.00 | \$ 77,000.00 |

| | | | | | | |
|---------------------------------------|------|----|----|-----------------------------|-----------|---------------------|
| Concrete Pipe | 2224 | LF | \$ | 115.00 | \$ | 255,760.00 |
| Manhole | 10 | EA | \$ | 4,000.00 | \$ | 40,000.00 |
| Concrete Paving for Drainage Channels | 60 | SY | \$ | 60.00 | \$ | 3,600.00 |
| Erosion/Sediment Control | 2 | EA | \$ | 350.00 | \$ | 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| Inlet Protection Barrier | 22 | EA | \$ | 100.00 | \$ | 2,200.00 |
| Reinforced Filter Fabric Fence | 2000 | LF | \$ | 5.00 | \$ | 10,000.00 |
| Sodding for Erosion Control | 6889 | SY | \$ | 5.00 | \$ | 34,444.44 |
| Traffic Control and Regulation | 1 | LS | \$ | 20,000.00 | \$ | 20,000.00 |
| | | | | Project Contingencies (20%) | \$ | 547,932.50 |
| | | | | Construction Total | \$ | 3,287,595.03 |

Comments/Special Project Notes:

This project could be spilt into multiple phases if necessary.



0 500 1000
SCALE: 1" = 500'

S9
BAYBROOK SECTION III STREET
IMPROVEMENTS

CobbFendley
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1920 Country Place Parkway, Suite 310
Pearland, Texas 77564
281.993.4952 | fax 281.993.8086
www.cobbhendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: MARVIN CIRCLE

Project Location/Limits: FROM PROPOSED ROW TO CUL-DE-SAC

CIP Number: S10

Facility Type: STREET

Project Description and Justification

This project is to replace the existing concrete pavement, curb, and driveways with 8" concrete pavement and 4"x12" curb. Also in this project, the existing water line will be replaced with 8" water line and the existing inlets and associated drainage will be replaced.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 63,416 | | | | | | \$ 63,416 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 258,962 | | | | | | \$ 258,962 |
| Total Cost | \$ 322,378 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 322,378 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | \$ 322,378 | \$ - | | | | | \$ 322,378 |
| 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 | | | | | | | \$ - |
| Total Funding | \$ 322,378 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 322,378 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------------|----------|------|--------------|--------------|
| Mobilization | 1 | LS | \$ 10,000.00 | \$ 10,000.00 |
| Tree and Plant Protection | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Remove Existing Concrete Pavement | 1665 | SY | \$ 8.00 | \$ 13,320.00 |
| Remove Existing Driveways | 300 | SY | \$ 8.00 | \$ 2,400.00 |
| Lime Stabilized Subgrade | 1778 | SY | \$ 4.25 | \$ 7,556.50 |
| Type B, Commerical Lime Slurry | 32 | TON | \$ 190.00 | \$ 6,080.00 |
| 6" Black Base (Type B) | 55 | TON | \$ 100.00 | \$ 5,500.00 |
| 2" HMAC | 18 | TON | \$ 175.00 | \$ 3,150.00 |
| 8" Reinforced Concrete Pavement | 300 | SY | \$ 60.00 | \$ 18,000.00 |
| Concrete Pavement for Driveways | 2700 | SF | \$ 7.00 | \$ 18,900.00 |
| 4 x12" Concrete Curb | 1000 | LF | \$ 5.00 | \$ 5,000.00 |
| Type C Inlet | 2 | EA | \$ 3,750.00 | \$ 7,500.00 |
| Concrete Pipe | 200 | LF | \$ 115.00 | \$ 23,000.00 |

| | | | | | | |
|----------------------------------|-----|----|----|-----------------------------|-----------|-------------------|
| Wet Connection to Existing WL | 1 | EA | \$ | 3,500.00 | \$ | 3,500.00 |
| 8-Inch PVC Water Line | 500 | LF | \$ | 50.00 | \$ | 25,000.00 |
| Fire Hydrant Assembly | 1 | EA | \$ | 4,500.00 | \$ | 4,500.00 |
| Water Services | 8 | EA | \$ | 1,200.00 | \$ | 9,600.00 |
| Erosion/Sediment Control | 2 | EA | \$ | 350.00 | \$ | 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| Inlet Protection Barrier | 2 | EA | \$ | 100.00 | \$ | 200.00 |
| Sodding for Erosion Control | 30 | SY | \$ | 5.00 | \$ | 150.00 |
| Traffic Control and Regulation | 1 | LS | \$ | 5,000.00 | \$ | 5,000.00 |
| | | | | Project Contingencies (20%) | \$ | 35,411.30 |
| | | | | Construction Total | \$ | 212,467.80 |

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CAPRI LANE ROAD RECONSTRUCTION
Project Location/Limits: SH 146 TO BAHAMA DRIVE
CIP Number: S12
Facility Type: STREET

Project Description and Justification

This project will remove the existing asphalt pavement within the project limits and replace with 8" reinforced concrete pavement. 18 wheelers and commercial vehicles use this road to access Kroger.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 30,895 | \$ 30,895 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 386,193 | \$ 386,193 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 417,088 | \$ 417,088 |

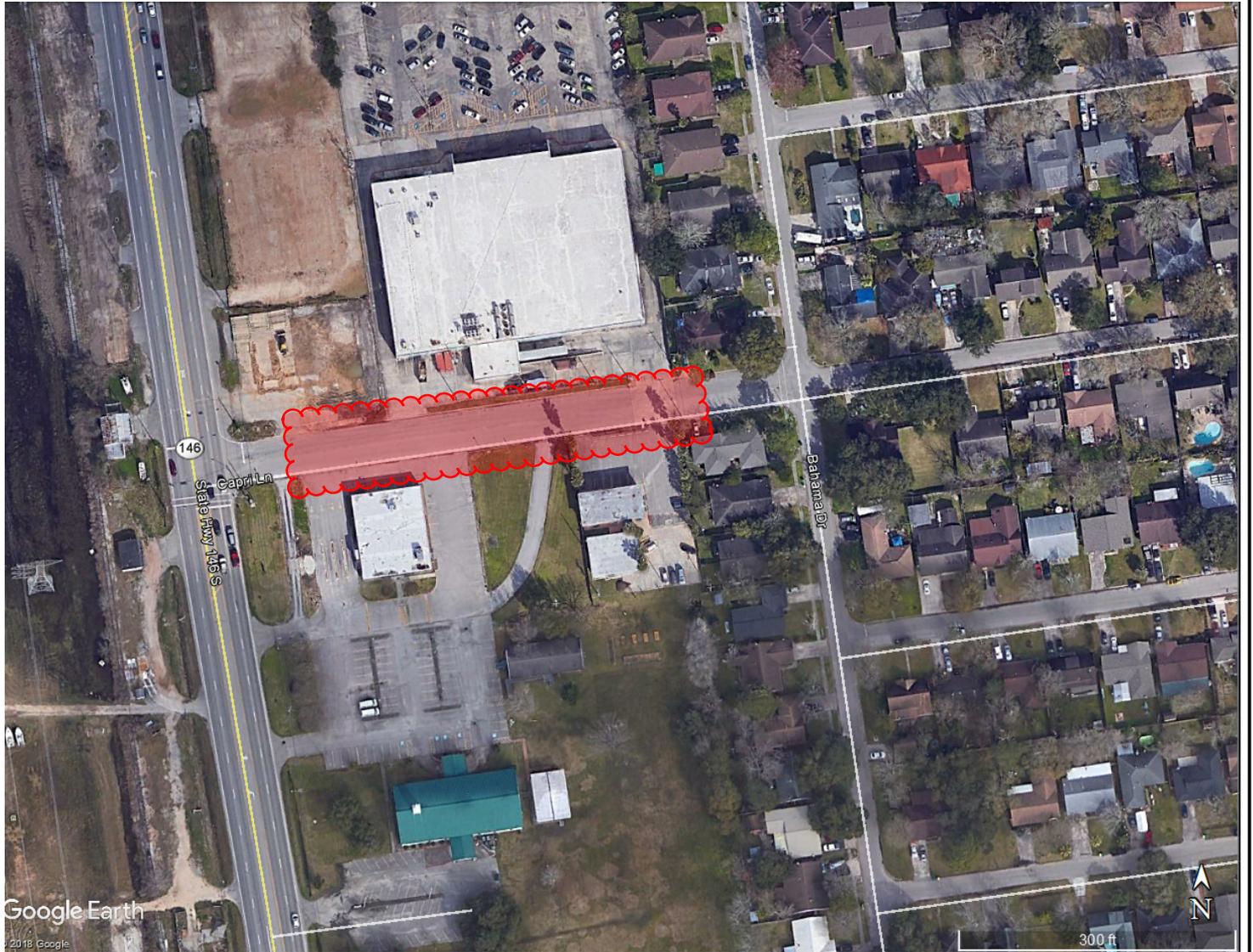
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | \$ - | | | | | | \$ - |
| 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 | | | | | | \$ 417,088 | \$ 417,088 |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 417,088 | \$ 417,088 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | | Total Cost |
|---------------------------------------|----------|------|------------|-----------|---------------|
| Mobilization | 1 | LS | \$ | 10,000.00 | \$ 10,000.00 |
| Remove Existing Asphalt Pavement | 2200 | SY | \$ | 15.00 | \$ 33,000.00 |
| Remove Existing Driveways & Sidewalks | 324 | SY | \$ | 8.00 | \$ 2,592.00 |
| Lime Treatment | 2524 | SY | \$ | 4.25 | \$ 10,727.00 |
| Type B, Commerical Lime Slurry | 50 | TON | \$ | 190.00 | \$ 9,500.00 |
| 8" Reinforced Concrete Pavement | 2200 | SY | \$ | 80.00 | \$ 176,000.00 |
| Concrete D/W's and Intersections | 324 | SY | \$ | 60.00 | \$ 19,440.00 |
| 4" Concrete Curb | 330 | LF | \$ | 3.50 | \$ 1,155.00 |
| 5' Concrete Sidewalk | 183 | SY | \$ | 53.00 | \$ 9,716.67 |
| Erosion/Sediment Control | 2 | EA | \$ | 350.00 | \$ 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ | 10,000.00 | \$ 10,000.00 |
| Sodding for Erosion Control | 321 | SY | \$ | 3.50 | \$ 1,123.50 |
| Signage and Pavement Markings | 1 | LS | \$ | 15,000.00 | \$ 15,000.00 |

| | | | | | | |
|--------------------------------|---|----|----|-----------------------------|-----------|-------------------|
| Traffic Control and Regulation | 1 | LS | \$ | 10,000.00 | \$ | 10,000.00 |
| | | | | | \$ | - |
| | | | | | \$ | - |
| | | | | Project Contingencies (20%) | \$ | 77,238.54 |
| | | | | Construction Total | \$ | 386,192.71 |

Comments/Special Project Notes:



S12
CAPRI LANE ROAD
RECONSTRUCTION



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: TODVILLE SIDE STREET ASPHALT REHAB
Project Location/Limits: 7TH St to Hester St.
CIP Number: S13
Facility Type: STREET

Project Description and Justification

This project involves rehabing existing asphalt streets that intersect with Todville Road. Right-of-Ways that are currently unimproved would remain as such.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | \$ 56,461 | \$ 56,461 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 564,612 | \$ 564,612 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 621,073 | \$ 621,073 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | | | | | \$ 621,073 | \$ 621,073 |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 621,073 | \$ 621,073 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---|----------|------|--------------|---------------|
| Mobilization | 1 | LS | \$ 10,000.00 | \$ 10,000.00 |
| Tree and Plant Protection | 1 | SY | \$ 3,000.00 | \$ 3,000.00 |
| Remove Existing Asphalt Pavement | 0 | SY | \$ 8.00 | \$ 50,842.67 |
| Lime Stabilized Subgrade | 0 | SY | \$ 4.25 | \$ 27,010.17 |
| Type B, Commerical Lime Slurry (6% w/ soil density of | 116 | TON | \$ 190.00 | \$ 22,040.00 |
| 6" Black Base (Type B) (140pcf) | 0 | SY | \$ 100.00 | \$ 200,193.00 |
| 2" HMAC (150pcf) | 0 | SY | \$ 175.00 | \$ 125,120.63 |
| 24" concrete culvert | 0 | LF | \$ 115.00 | \$ 6,900.00 |
| Erosion/Sediment Control | 30 | SY | \$ 350.00 | \$ 10,500.00 |
| SWPPP Inspection and Maintenance | 1 | EA | \$ 5,000.00 | \$ 5,000.00 |
| Sodding for Erosion Control | 0 | LS | \$ 5.00 | \$ 4,903.33 |
| Traffic Control and Regulation | 1 | SY | \$ 5,000.00 | \$ 5,000.00 |
| | | | \$ | \$ - |

| | | |
|-----------------------------|-----------|-------------------|
| | \$ | - |
| Project Contingencies (20%) | \$ | 94,101.96 |
| Construction Total | \$ | 564,611.76 |

Comments/Special Project Notes:



S13
TODVILLE SIDE
STREET ASPHALT
REHAB



SEABROOK
YEAR: 2020

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CITYWIDE STREET SIGN REPLACEMENT
Project Location/Limits: Citywide
CIP Number: S14
Facility Type: STREET

Project Description and Justification

This project involves removing and replacing all street stop and street names signs with a standardized decorative one. There are 388 stop signs.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | \$ | - | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | \$ | 308,072 | \$ 308,072 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 308,072 | \$ 308,072 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | | | | | \$ 308,072 | \$ 308,072 |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 308,072 | \$ 308,072 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|------------------------------------|----------|------|-----------------------------|----------------------|
| Complete sign pole and accessories | 388 | ea | \$ 794.00 | \$ 308,072.00 |
| | | | \$ - | \$ - |
| | | | \$ - | \$ - |
| | | | \$ - | \$ - |
| | | | Project Contingencies (20%) | \$ - |
| | | | Construction Total | \$ 308,072.00 |

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM: WATER
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, and 2 Surface Water Delivery Stations.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 275,522 | | \$ - | \$ - | | | \$ 275,522 |
| Total Cost | \$ 275,522 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 275,522 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | \$ 275,522.00 | \$ - | | | | | \$ 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 |

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 licensing | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| Lift Station remote terminal units, telemetry, antenna, | 21 | EA | \$ 15,000.00 | \$ 315,000.00 |
| Water Plant remote terminal units, telemetry, antenna, | 3 | EA | \$ 25,000.00 | \$ 75,000.00 |
| Surface Water Delivery Station remote terminal units, | 2 | EA | \$ 15,000.00 | \$ 30,000.00 |
| Wastewater Plant remote terminal units, telemetry, | 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 | \$ 712,250.00 |

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: MIRAMAR PARK PARKING LOT
Project Location/Limits: Southeast Corner of N. Meyer Avenue and Hammer Street
CIP Number: FAC4
Facility Type: PARKING LOT

Project Description and Justification

The parking lot will increase the capacity of parking for Miramar Park due to an increase in visitors.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------------|-------|------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | \$ 66,557 | \$ - | \$ 66,557 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | \$ 332,787 | \$ - | \$ 332,787 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ 399,345 | \$ - | \$ 399,345 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|---------------|-------|------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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) | | | | | \$ 399,345.00 | \$ - | \$ 399,345 |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ 399,345 | \$ - | \$ 399,345 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------------|----------|------|--------------|---------------|
| Mobilization | 1 | LS | \$ 10,000.00 | \$ 10,000.00 |
| Tree Removal | 1 | LS | \$ 5,000.00 | \$ 5,000.00 |
| Lime Treatment | 2944 | SY | \$ 4.00 | \$ 11,775.11 |
| Type A, Hydrated Lime | 53 | TON | \$ 190.00 | \$ 10,067.72 |
| 5" Reinforced Concrete Pavement | 2889 | SY | \$ 55.00 | \$ 158,895.00 |
| 6" Concrete Curb | 773 | LF | \$ 3.50 | \$ 2,705.50 |
| Reinforced Concrete Pipe | 200 | LF | \$ 100.00 | \$ 20,000.00 |
| Inlet | 4 | EA | \$ 3,000.00 | \$ 12,000.00 |
| Curb/Wheel Stop | 56 | EA | \$ 60.00 | \$ 3,360.00 |
| 4" Yellow Stripe | 1240 | LF | \$ 1.50 | \$ 1,860.00 |
| Handicap Ramp | 1 | EA | \$ 2,000.00 | \$ 2,000.00 |
| Handicap Sign | 6 | EA | \$ 200.00 | \$ 1,200.00 |
| Light Poles | 4 | EA | \$ 3,500.00 | \$ 14,000.00 |

| | | | | | | |
|--|-----|----|----|-----------------------------|-----------|-------------------|
| Electrical System for Parking Lot Lights | 1 | LS | \$ | 10,000.00 | \$ | 10,000.00 |
| SWPPP | 1 | LS | \$ | 2,000.00 | \$ | 2,000.00 |
| Sodding | 273 | SY | \$ | 5.00 | \$ | 1,366.67 |
| | | | | Project Contingencies (25%) | \$ | 66,557.50 |
| | | | | Construction Total | \$ | 332,787.50 |

Comments/Special Project Notes:

Constructing with Asphalt pavement would result in an approx. 10% cost reduction from concrete.

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

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, DropCountr, 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 all of the City's water meters smaller than 2" and retrofitting the rest.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|--------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | \$ 3,000,000 | | | | \$ - | \$ 3,000,000 |
| Total Cost | \$ - | \$ 3,000,000 | \$ - | \$ - | \$ - | \$ - | \$ 3,000,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-------|--------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | \$ 3,000,000 | | | | | \$ 3,000,000 |
| 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 | \$ - | \$ 3,000,000 | \$ - | \$ - | \$ - | \$ - | \$ 3,000,000 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---|----------|------|------------|---------------|
| Infrastructure | | | | |
| 5/8x3/4 Neptune R900i registers. 5 years or younger | 997 | EA | \$ 195.00 | \$ 194,415.00 |
| 5/8x3/4 Neptune Water Meters w/R900i. 6 years or | 2326 | EA | \$ 230.00 | \$ 534,980.00 |
| ¾ Neptune R900i registers. 5 years or younger | 272 | EA | \$ 195.00 | \$ 53,040.00 |
| ¾ Neptune Water Meters w/R900i. 6 years or older | 345 | EA | \$ 300.00 | \$ 103,500.00 |
| 1" Neptune R900i registers. 5 years or younger | 71 | EA | \$ 195.00 | \$ 13,845.00 |
| 1" Neptune Water Meters w/R900i. 6 years or older | 126 | EA | \$ 352.00 | \$ 44,352.00 |
| 1-1/2" Neptune R900i registers. 5 years or younger | 10 | EA | \$ 195.00 | \$ 1,950.00 |
| 1-1/2 Neptune Water Meters w/R900i. 6 years or | 38 | EA | \$ 555.00 | \$ 21,090.00 |

| | | | | | | |
|--|----|----|----|-----------|----|------------|
| 2" Neptune R900i registers. 5 years or younger | 19 | EA | \$ | 195.00 | \$ | 3,705.00 |
| 2" Neptune Water Meters w/R900i. 6 years or older | 63 | EA | \$ | 689.00 | \$ | 43,407.00 |
| 2" Neptune TruFlo Comp Meter w/R900i. 6 years or | 1 | EA | \$ | 1,782.00 | \$ | 1,782.00 |
| 3" Neptune TruFlo Comp Meter R900i register (x2). 5 | 3 | EA | \$ | 390.00 | \$ | 1,170.00 |
| 3" Neptune TruFlo Comp. Meter w/R900i. 6 years or | 12 | EA | \$ | 2,410.00 | \$ | 28,920.00 |
| 4" Neptune TruFlo Comp. meter w/R900i. 6 years or | 2 | EA | \$ | 3,025.00 | \$ | 6,050.00 |
| 6" Neptune TruFlo Comp. meter w/R900i. 6 years or | 5 | EA | \$ | 4,850.00 | \$ | 24,250.00 |
| 10" Neptune Protectus III Water Meter register (x2). 5 | 1 | EA | \$ | 390.00 | \$ | 390.00 |
| 3" Neptune bronze strainer | 12 | EA | \$ | 675.00 | \$ | 8,100.00 |
| 4" Neptune bronze strainer | 2 | EA | \$ | 907.00 | \$ | 1,814.00 |
| 6" Neptune bronze strainer | 5 | EA | \$ | 1,769.00 | \$ | 8,845.00 |
| MRX920 Drive –By unit. Less laptop | 1 | EA | \$ | 6,875.00 | \$ | 6,875.00 |
| Server, Per Neptune specs | 1 | EA | \$ | 10,000.00 | \$ | 10,000.00 |
| Mono Poles, set in place | 5 | EA | \$ | 30,000.00 | \$ | 150,000.00 |
| Gateway w/AC power (Cell and Ethernet) | 5 | EA | \$ | 11,000.00 | \$ | 55,000.00 |
| N_Sight 5.0 Software | 1 | EA | \$ | 6,250.00 | \$ | 6,250.00 |
| Training | 1 | EA | \$ | 5,000.00 | \$ | 5,000.00 |

Installation

| | | | | | | |
|--|------|----|----|-----------------------------|-----------|---------------------|
| Retrofit 5/8"x3/4" meter 5 years and younger w/R900i | 1377 | EA | \$ | 45.00 | \$ | 61,965.00 |
| Install new 5/8x3/4 R900i meter on 6 year or older | 2326 | EA | \$ | 60.00 | \$ | 139,560.00 |
| Retrofit ¾" meter 5 years and younger w/R900i | 271 | EA | \$ | 45.00 | \$ | 12,195.00 |
| Install new ¾ R900i meter on 6 year or older | 345 | EA | \$ | 60.00 | \$ | 20,700.00 |
| Retrofit 1" meter 5 year and younger w/R900i | 71 | EA | \$ | 45.00 | \$ | 3,195.00 |
| Install new 1" R900i meter on 6 year or older | 126 | EA | \$ | 60.00 | \$ | 7,560.00 |
| Retrofit 1 ½" meter 5 year or younger w/R900i | 10 | EA | \$ | 45.00 | \$ | 450.00 |
| Install new 1 ½ R900i meter on 6 years or older | 38 | EA | \$ | 60.00 | \$ | 2,280.00 |
| Retrofit 2" meter 5 years and younger w/R900i | 19 | EA | \$ | 45.00 | \$ | 855.00 |
| Install new 2 R900i meter on 6 year or older | 63 | EA | \$ | 60.00 | \$ | 3,780.00 |
| Install new 2 R900i compound meter 6 years or older | 1 | EA | \$ | 300.00 | \$ | 300.00 |
| Retrofit 3" compound meter 5 years or younger | 3 | EA | \$ | 90.00 | \$ | 270.00 |
| Install new 3" R900i compound 6 years or older | 12 | EA | \$ | 450.00 | \$ | 5,400.00 |
| Install new 4" R900i compound 6 years or older | 2 | EA | \$ | 650.00 | \$ | 1,300.00 |
| Install new 6" R900i compound 6 years or older | 5 | EA | \$ | 1,000.00 | \$ | 5,000.00 |
| Retrofit 10" Protectus Meter w/r900i register | 1 | EA | \$ | 90.00 | \$ | 90.00 |
| | | | | Project Contingencies (15%) | \$ | 239,044.50 |
| | | | | Construction Total | \$ | 1,832,674.50 |

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 out of lanes of traffic.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL | |
|----------------------------------|---------------|---------------------|-----------|------------|-------------------|-----------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | | |
| 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 | FY21 | FY22 | FY23 | FY24 | FY25+ | 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------------|----------|------|--------------|---------------|
| Mobilization | 1 | LS | \$ 10,500.00 | \$ 10,500.00 |
| Clearing and Grubbing | 0.36 | AC | \$ 2,000.00 | \$ 720.00 |
| Steel Cable Grate | 2 | EA | \$ 5,000.00 | \$ 10,000.00 |
| Tie-In to Existing Pavement | 1 | LS | \$ 1,500.00 | \$ 1,500.00 |
| 10" Conc Pvmt | 1750 | SY | \$ 80.00 | \$ 140,000.00 |
| 12" Lime Subgrade | 1900 | SY | \$ 8.00 | \$ 15,200.00 |
| 24-inch RCP | 170 | LF | \$ 100.00 | \$ 17,000.00 |
| SET (TXDOT) | 4 | EA | \$ 2,000.00 | \$ 8,000.00 |
| 4" Pvmt Markings | 500 | LF | \$ 5.00 | \$ 2,500.00 |
| Allowance for Electrical Drop | 1 | LS | \$ 12,000.00 | \$ 12,000.00 |
| Allowance for Electrical Meter | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Allowance for Electrical Conduit | 1 | LS | \$ 4,000.00 | \$ 4,000.00 |
| Erosion/Sediment Control | 2 | EA | \$ 350.00 | \$ 700.00 |
| SWPPP Inspection and Maintenance | 1 | LS | \$ 2,000.00 | \$ 2,000.00 |

| | | | | | | |
|--------------------------------|-----|----|----|-----------------------------|-----------|-------------------|
| Inlet Protection Barrier | 4 | EA | \$ | 100.00 | \$ | 400.00 |
| Reinforced Filter Fabric Fence | 100 | LF | \$ | 5.00 | \$ | 500.00 |
| Sodding | 85 | SY | \$ | 5.00 | \$ | 425.00 |
| Traffic Control | 1 | LS | \$ | 8,000.00 | \$ | 8,000.00 |
| | | | | Project Contingencies (15%) | \$ | 35,466.75 |
| | | | | Construction Total | \$ | 271,911.75 |

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)

CobbFendley
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www.cobbfendley.com



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: VOLUNTEER FIRE DEPARTMENT FLOOR COATING
Project Location/Limits: VOLUNTEER FIRE DEPARTMENT
CIP Number: FAC8
Facility Type: FIRE DEPARTMENT

Project Description and Justification

The existing floor coating needs to be removed and replaced due to wear. COMPLETE

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|------------------|---------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 45,824 | | | \$ - | | | \$ 45,824 |
| Total Cost | \$ 45,824 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 45,824 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|------------------|--------------------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 45,824 | \$ - | | | | | \$ 45,824 |
| TBD | | | | | | | |
| Other: ____ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | |
| Total Funding | \$ 45,824 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 45,824 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--------------------------------|----------|------|-----------------------------|---------------------|
| Remove & replace floor coating | 1 | | \$ 80,000.00 | \$ 80,000.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | Project Contingencies (15%) | |
| | | | Construction Total | \$ 80,000.00 |

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CITY HALL COUNCIL CHAMBERS & 2nd FLOOR REMODEL
Project Location/Limits: CITY HALL COUNCIL CHAMBERS & 2nd FLOOR REMODEL
CIP Number: FAC9
Facility Type: CITY HALL

Project Description and Justification

Remodel City Hall Council Chambers/Court Chambers to address security concerns. Remodel 2nd floor of City Hall to accommodate staffing demands.

remove this is in FAC15

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-----------------|---------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | \$ 2,500 | \$ 7,500 | \$ - | | | | \$ 10,000 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | \$ - | \$ - | | | \$ - |
| Total Cost | \$ 2,500 | \$ 7,500 | \$ - | \$ - | \$ - | \$ - | \$ 10,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-----------------|--------------------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | \$ 2,500.00 | \$ 7,500.00 | | | | | \$ 10,000 |
| 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 | | | | | | | \$ - |
| Total Funding | \$ 2,500 | \$ 7,500 | \$ - | \$ - | \$ - | \$ - | \$ 10,000 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------|----------|------|-----------------------------|-------------|
| | 1 | | \$ - | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | Project Contingencies (15%) | |
| | | | Construction Total | \$ - |

Comments/Special Project Notes:

Court Security funds.



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 Repsdorph and connecto to both Water Wells #1 & #2.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | \$ - | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 110,000 | \$ - | \$ - | \$ - | | | \$ 110,000 |
| Total Cost | \$ 110,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 110,000 |

| Funding Source | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | TOTAL |
|----------------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| | | | | | | | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | \$ 52,437 | | | | | | \$ 52,437 |
| 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 | \$ 149,438 | | | | | | \$ 149,438 |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 201,875 | \$ - | \$ 201,875 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------|----------|------|-----------------------------|----------------------|
| | 1 | | \$ 201,875.00 | \$ 201,875.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | Project Contingencies (15%) | |
| | | | Construction Total | \$ 201,875.00 |

Comments/Special Project Notes:



FAC10

WATER WELLS FIBER CONDUIT

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www.cobbendley.com



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:

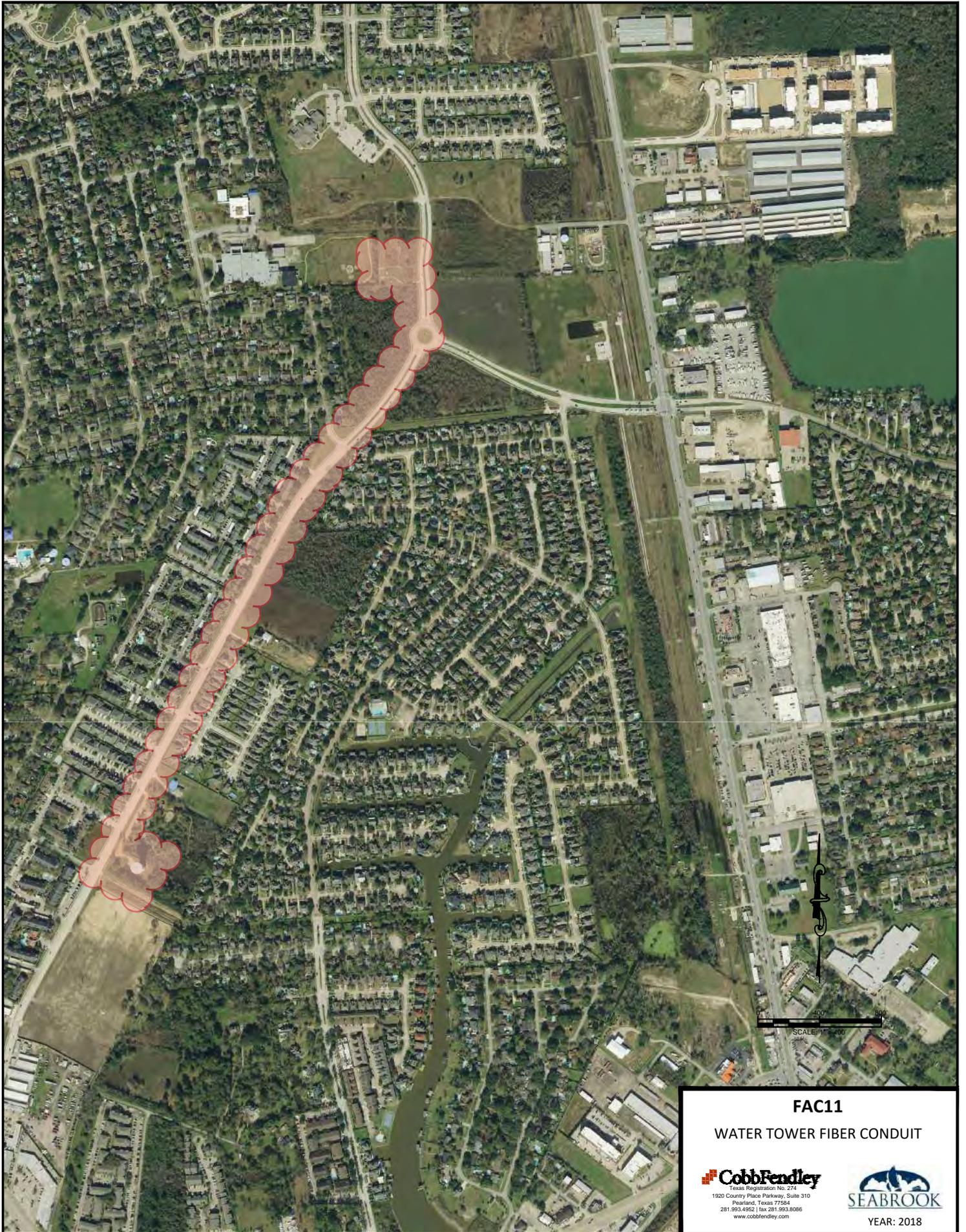
| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | \$ - | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 170,915 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 170,915 |
| Total Cost | \$ 170,915 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 170,915 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| Certificates of Obligation | | | | | | | \$ - |
| Prior Certificates of Obligation | | | | | | | \$ - |
| General Obligation Bonds | | | | | | | \$ - |
| Prior Bonds | | | | | | | \$ - |
| Future Bonds | | | | | | | \$ - |
| SEDC 4B Funds | | | | | | | \$ - |
| Water/Sewer Revenue Bonds | \$ 170,915 | | | | | | \$ 170,915 |
| Enterprise Utility Fund - Cash | | | | | | | \$ - |
| Impact Fees | | | | | | | \$ - |
| Developer Contribution | | | | | | | \$ - |
| Potential Grant | | | | | | | \$ - |
| Fun 28 Gen CIP | \$ - | \$ - | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ____ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 170,915 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 170,915 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------|----------|------|-----------------------------|----------------------|
| | 1 | | \$ 170,915.00 | \$ 170,915.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | Project Contingencies (15%) | |
| | | | Construction Total | \$ 170,915.00 |

Comments/Special Project Notes:



FAC11

WATER TOWER FIBER CONDUIT

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YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM 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, licensing, cellular based communications, programmable controllers for 21 Lift Stations and 2 Wastewater Plants.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|-------------|-------------|-------------|-------------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | \$ - | \$ - | | \$ 550,000 | \$ 550,000 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 550,000 | \$ 550,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|-------------|-------------|-------------|-------------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |
| Lift Station remote terminal units, telemetry, antenna, | 21 | EA | \$ 16,225.00 | \$ 340,725.00 |
| Wastewater Plant remote terminal units, telemetry, | 2 | EA | \$ 35,000.00 | \$ 70,000.00 |
| Cellular service set up with modem | 23 | EA | \$ 200.00 | \$ 4,600.00 |
| | | | Project Contingencies (25%) | \$ 109,831.25 |
| | | | Construction Total | \$ 549,156.25 |

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

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-------------------|---------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 160,880 | \$ - | \$ - | \$ - | | | \$ 160,880 |
| Total Cost | \$ 160,880 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 160,880 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-------------------|--------------------------------|-------------|-------------|-------------|-------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | \$ 160,880 | \$ - | | | | | \$ 160,880 |
| TBD | | | | | | \$ - | \$ - |
| Other: ____ (Fund/Agency) | | | \$ - | \$ - | \$ - | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ 160,880 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 160,880 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------|----------|------|---------------|----------------------|
| A/C units | 1 | LS | \$ 160,000.00 | \$ 160,000.00 |
| | | | | \$ 880.00 |
| Project Contingencies (0%) | | | | \$ - |
| Construction Total | | | | \$ 160,880.00 |

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 is expired and new unit is needed.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|-----------------|---------------------|-------------|-------------|-------------|-------------|-----------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 7,900 | \$ - | \$ - | \$ - | | | \$ 7,900 |
| Total Cost | \$ 7,900 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 7,900 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|-----------------|--------------------------------|-------------|-------------|-------------|-------------|-----------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | \$ 7,900 | | | | | | \$ 7,900 |
| 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 | | | | | | | \$ - |
| Total Funding | \$ 7,900 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 7,900 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------|----------|------|--------------|---------------------|
| Water Heater / Boiler | 1 | LS | \$ 25,000.00 | \$ 25,000.00 |
| | | | | |
| | | | | |
| | | | | |
| Project Contingencies (25%) | | | | \$ 6,250.00 |
| Construction Total | | | | \$ 31,250.00 |

Comments/Special Project Notes:

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: CITY HALL REMODEL
Project Location/Limits: CITY HALL
CIP Number: FAC15
Facility Type: BUILDING

Project Description and Justification

Remodel offices to better allocate available space for staff and storage.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|-----------|------|-------|------------------|
| | | FY20 | FY21 | FY22 | FY23 | FY24+ | |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | \$ - | \$ 62,500 | | | \$ 62,500 |
| Total Cost | \$ - | \$ - | \$ - | \$ 62,500 | \$ - | \$ - | \$ 62,500 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|-----------|------|-------|------------------|
| | | FY20 | FY21 | FY22 | FY23 | FY24+ | |
| 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 | | | | \$ 62,500 | | \$ - | \$ 62,500 |
| Other: ____ (Fund/Agency) | | | \$ - | \$ - | \$ - | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ 62,500 | \$ - | \$ - | \$ 62,500 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------------------------------|----------|------|------------|---------------------|
| Public Information Office Remodel | | | | \$ 20,000.00 |
| Emergency Management Office Remodel | | | | \$ 10,000.00 |
| Court Office Remodel Upstairs | | | | \$ 20,000.00 |
| | | | | |
| Project Contingencies (25%) | | | | \$ 12,500.00 |
| Construction Total | | | | \$ 62,500.00 |

Comments/Special Project Notes:

Projects could be phased due to limited funding

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: DASH PUMPER TRUCK
Project Location/Limits: FIRE DEPARTMENT
CIP Number: FAC18
Facility Type: FIRE APPARATUS

Project Description and Justification

2005 PIERCE/DASH PUMPER FIRE TRUCK IS COMING TO THE END OF USEFUL LIFE OF 20 YEARS. NEED TO PLAN A REPLACEMENT.

Project Cost Estimates:

| Project Cost | COST BY FISCAL YEAR | | | | | | TOTAL |
|----------------------|---------------------|------|------|------|------|------------|-------------------|
| | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | | \$ 849,493 | \$ 849,493 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 849,493 | \$ 849,493 |

| Funding Source | FUNDING SOURCES BY FISCAL YEAR | | | | | | TOTAL |
|----------------------------------|--------------------------------|------|------|------|------|------------|-------------------|
| | Prior Funding | FY20 | FY21 | FY22 | FY23 | FY24+ | |
| 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 | | | | | | \$ 849,493 | \$ 849,493 |
| Other: ___ (Fund/Agency) | | | \$ - | \$ - | \$ - | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 849,493 | \$ 849,493 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|----------------------------|----------|------|------------|----------------------|
| Fire Engine Truck | | | | \$ 849,493.00 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Project Contingencies (5%) | | | | |
| Construction Total | | | | \$ 849,493.00 |

Comments/Special Project Notes:

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. **Is this section what we received the grant award recently?**

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------------|------|------------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | \$ - | | | | | \$ - |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | \$ - | | | | | \$ - |
| Construction | | | \$ 209,400 | \$ - | \$ 540,000 | | \$ 749,400 |
| Total Cost | \$ - | \$ - | \$ 209,400 | \$ - | \$ 540,000 | \$ - | \$ 749,400 |

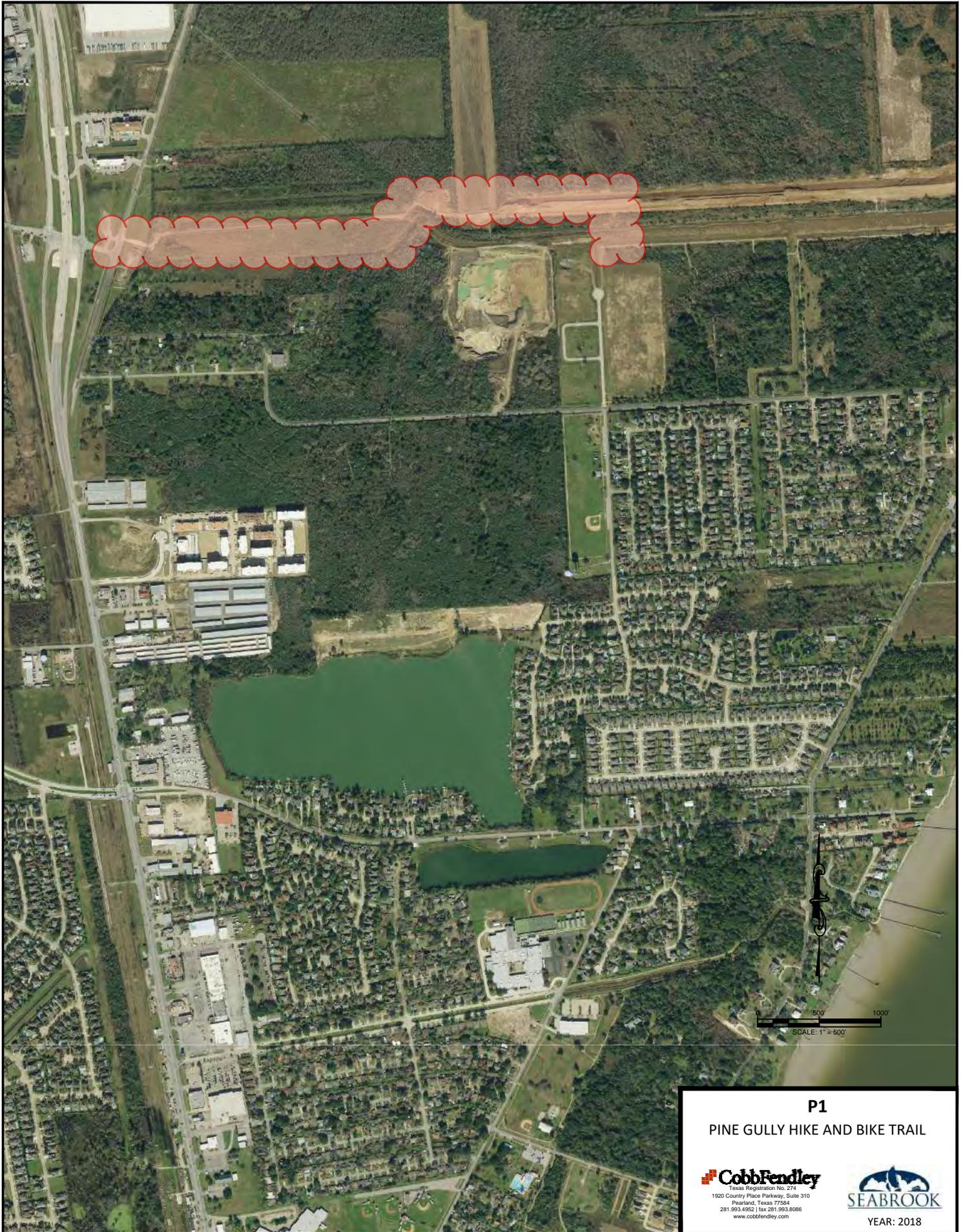
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------------|------|------------|-------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | \$ 39,400 | \$ - | | | \$ 39,400 |
| 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 | | | \$ 131,400 | \$ - | \$ 540,000 | | \$ 671,400 |
| Fun 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ___ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ 170,800 | \$ - | \$ 540,000 | \$ - | \$ 710,800 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------------------|----------------------|
| Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| Decomposed Granite (4' Wide, 6" Thick) | 450 | TON | \$ 80.00 | \$ 36,000.00 |
| Class 200 Filter Fabric | 4500 | LF | \$ 3.00 | \$ 13,500.00 |
| Crushed Concrete | 150 | TON | \$ 40.00 | \$ 6,000.00 |
| Drainage Pipe | 100 | LF | \$ 30.00 | \$ 3,000.00 |
| 150 Ft Truss Walking Bridge - 150'X7' | 2 | EA | \$ 225,000.00 | \$ 450,000.00 |
| Bridge Installation | 2 | LS | \$ 30,000.00 | \$ 60,000.00 |
| Rest Area Benches | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Educational Signage | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| | | | Project Contingencies (20%) | \$ 124,900.00 |
| | | | Construction Total | \$ 749,400.00 |

Comments/Special Project Notes:

City staff would self perform trail construction. Design & Construction of walk bridge would be outside of City staff scope.



0 500 1000
SCALE: 1" = 500'

P1
PINE GULLY HIKE AND BIKE TRAIL

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



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 west ROW of N Meyer north of E Meyer, north ROW of E Meyer and east ROW of N Meyer to the El Mar intersection.

Project Cost Estimates:

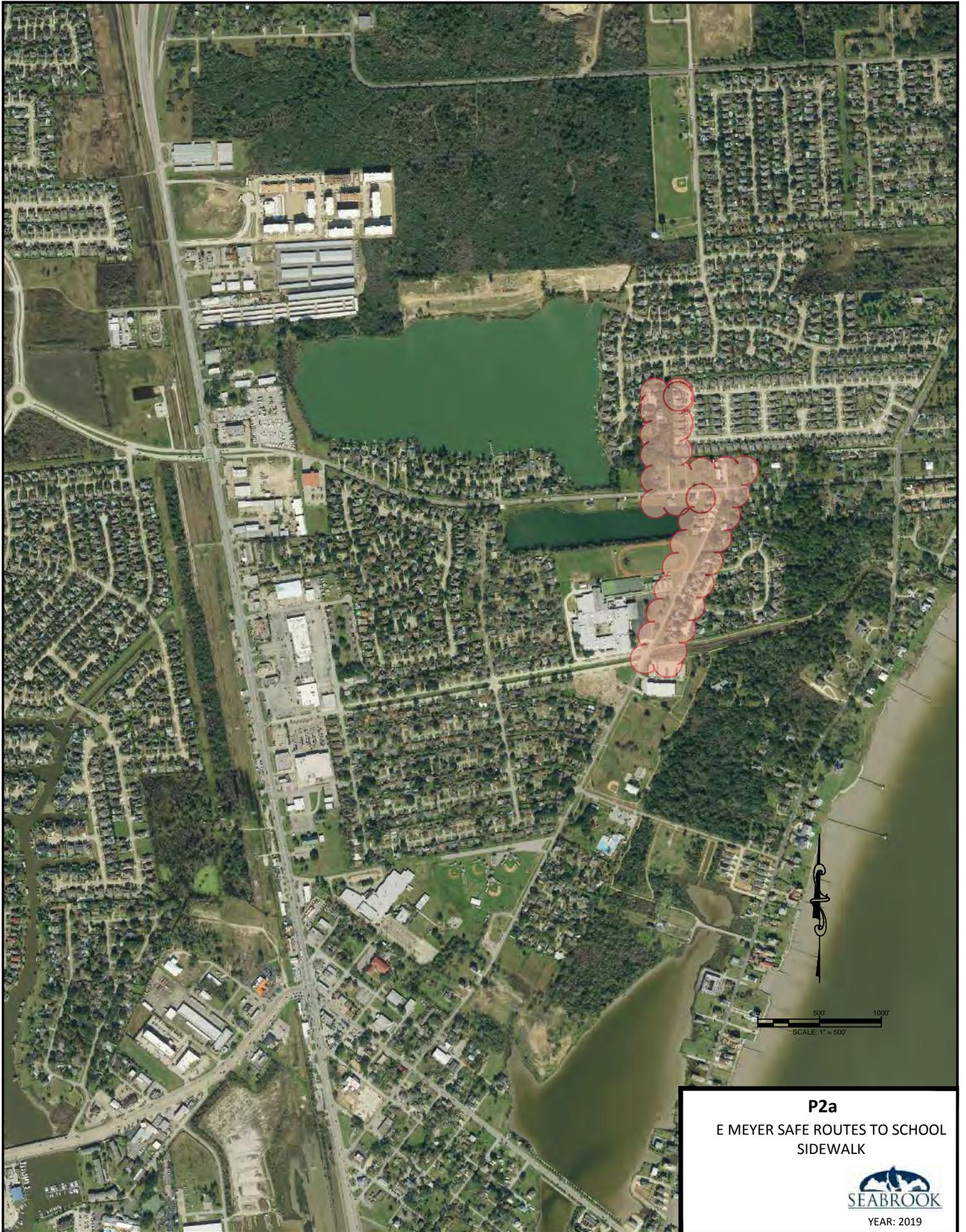
| COST BY FISCAL YEAR | | | | | | | |
|----------------------------------|---------------|------|------|------------|------------|-------|-------------------|
| Project Cost | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | TOTAL |
| Environmental | | | | \$ 15,000 | | | \$ 15,000 |
| Engineering/Planning | | | | \$ 140,030 | | | \$ 140,030 |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | | | | | \$ 560,137 | | \$ 560,137 |
| Total Cost | \$ - | \$ - | \$ - | \$ 140,030 | \$ 560,137 | \$ - | \$ 700,167 |
| FUNDING SOURCES BY FISCAL YEAR | | | | | | | |
| Funding Source | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | 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) | | \$ - | \$ - | | | \$ - | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-------------|--------------|
| Mobilization | 1 | LS | \$50,000.00 | \$ 50,000.00 |
| Preparing ROW | 26 | Sta | \$1,950.00 | \$ 50,700.00 |
| Clearing and Grubbing | 1 | Ls | \$6,500.00 | \$ 6,500.00 |
| Concrete Sidewalk (5' Wide, 4" Thick) - E Meyer and South Segment of N Meyer | 1083 | SY | \$84.50 | \$ 91,513.50 |
| Concrete Sidewalk (6' Wide, 4" Thick) - North Segment of N Meyer | 317 | SY | \$84.50 | \$ 26,786.50 |
| Driveway removal and replacement | 10 | EA | \$3,000.00 | \$ 30,000.00 |
| Ditch Cleaning and Reshaping | 2425 | LF | \$19.50 | \$ 47,287.50 |
| Retaining Wall (Conc Block) Assume 2' Tall along E Meyer | 1350 | SF | \$58.50 | \$ 78,975.00 |

| | | | | | |
|---|------|-------|------------|-----------|-------------------|
| Retaining Wall (Conc Block) Assume 2' Tall and 20' of Wall per occurrence | 240 | SF | \$58.50 | \$ | 14,040.00 |
| Handrail along Retaining Wall | 530 | LF | \$130.00 | \$ | 68,900.00 |
| Slotted Curb - North Segment of N Meyer | 475 | LF | \$26.00 | \$ | 12,350.00 |
| 24" RCP Culvert | 20 | LF | \$91.00 | \$ | 1,820.00 |
| 24" SET 6:1 | 4 | EA | \$1,625.00 | \$ | 6,500.00 |
| Demo and Extend Culvert Headwall at E Meyer/N Meyer | 1 | EA | \$4,940.00 | \$ | 4,940.00 |
| Solar Powered Pedestrian Beacon (Continuously Flashing) | 2 | EA | \$3,900.00 | \$ | 7,800.00 |
| Pedestrian Signage | 4 | EA | \$250.00 | \$ | 1,000.00 |
| Crosswalk Striping (Thermo) | 1 | LS | \$2,600.00 | \$ | 2,600.00 |
| ADA Curb Ramps (6' width) | 3 | EA | \$1,950.00 | \$ | 5,850.00 |
| Adjust Fire Hydrant Assembly | 2 | EA | \$1,950.00 | \$ | 3,900.00 |
| Remove Concrete Riprap | 89 | SY | \$13.00 | \$ | 1,157.00 |
| Relocate Storm Area Inlet | 4 | EA | \$3,250.00 | \$ | 13,000.00 |
| Replace Concrete Riprap | 89 | STY | \$156.00 | \$ | 13,884.00 |
| Erosion Control | 2425 | LF | \$4.29 | \$ | 10,403.25 |
| Reestablish Sod (Assumes 2' on either side of sidewalk) | 972 | SY | \$2.50 | \$ | 2,430.00 |
| Traffic Control | 4 | Month | \$1,950.00 | \$ | 7,800.00 |
| Construction Total | | | | \$ | 560,136.75 |

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: HIGHWAY 146 TO N. MEYER
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:

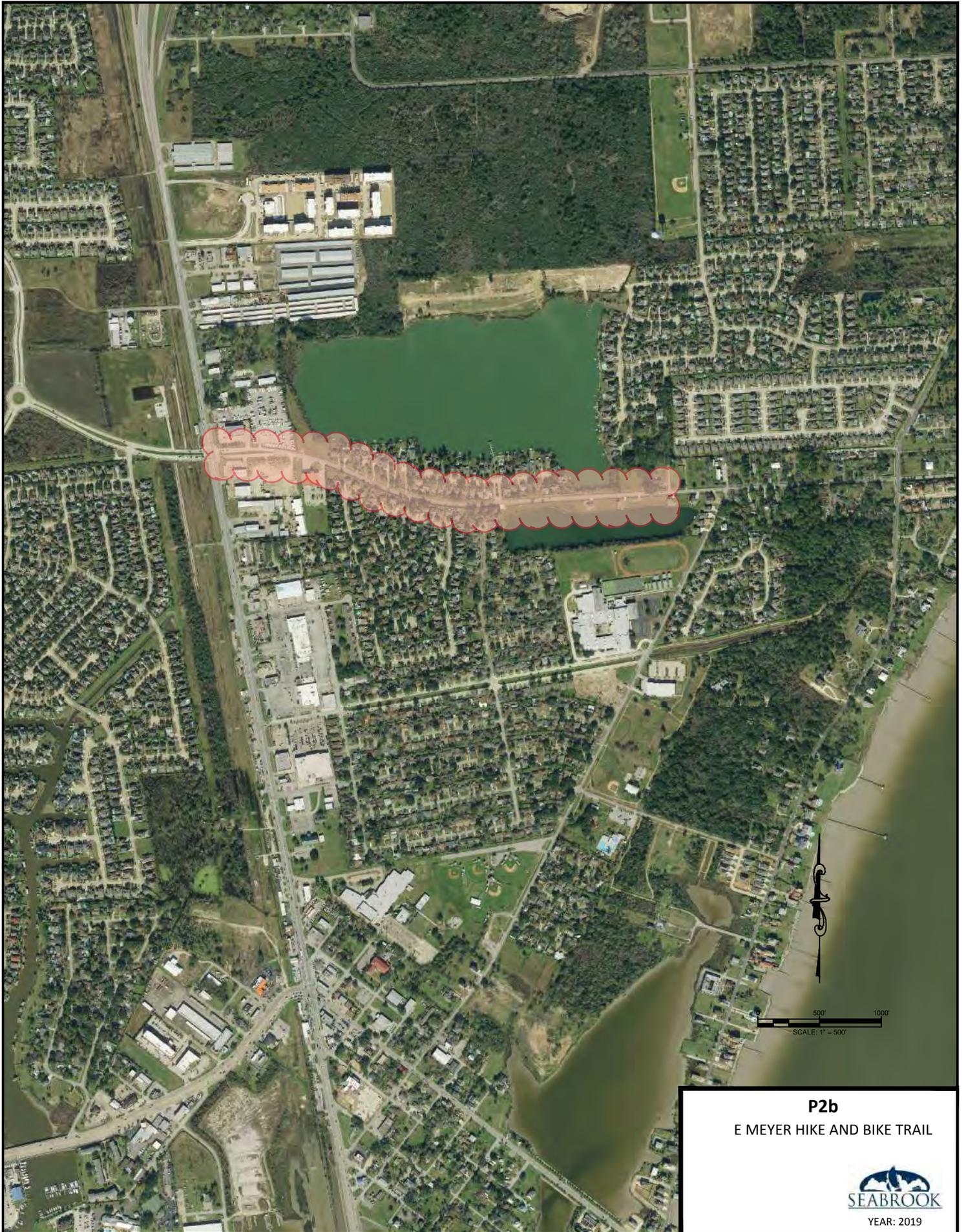
| COST BY FISCAL YEAR | | | | | | | |
|----------------------------------|---------------|------|------|------|------|------------|-------------------|
| Project Cost | Prior Funding | FY21 | FY22 | FY23 | FY24 | FY25+ | TOTAL |
| Environmental | | | | | | | \$ - |
| Engineering/Planning | | | | | | \$ 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 | FY21 | FY22 | FY23 | FY24 | FY25+ | 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------------------|----------------------|
| Mobilization | 1 | LS | \$ 90,000.00 | \$ 90,000.00 |
| Decomposed Granite (4' Wide, 6" Thick) | 560 | TON | \$ 80.00 | \$ 44,800.00 |
| Class 200 Filter Fabric | 4200 | LF | \$ 3.00 | \$ 12,600.00 |
| Ditch Cleaning and Reshaping | 4200 | LF | \$ 20.00 | \$ 84,000.00 |
| Rest Area Benches | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Educational Signage | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| | | | Project Contingencies (20%) | \$ 47,480.00 |
| | | | Construction Total | \$ 284,880.00 |

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.



P2b
E MEYER HIKE AND BIKE TRAIL



YEAR: 2019

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: MAIN STREET PINDO PALMS
Project Location/Limits: MAIN STREET
CIP Number: P3
Facility Type: PARK

Project Description and Justification

DONE

This project consists of 60 Pindo Palm Trees to be installed along Main Street.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|------------------|---------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | | | | | | \$ - |
| Engineering/Planning | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Construction | \$ 15,000 | | | | | | \$ 15,000 |
| Total Cost | \$ 15,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 15,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|------------------|--------------------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | \$ 15,000 | | | | | | \$ 15,000 |
| 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 | | | | | | | \$ - |
| Total Funding | \$ 15,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 15,000 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-------------|----------|------|-----------------------------|---------------------|
| Pindo Palm | 1 | LS | \$ 15,000.00 | \$ 15,000.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | Project Contingencies (20%) | \$ - |
| | | | Construction Total | \$ 15,000.00 |

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.

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: ROBINSON PARK PARKING LOT INCREASES

Project Location/Limits: ROBINSON PARK

CIP Number: P5

Facility Type: PARK

Project Description and Justification

DONE

This project is to increase the size of the existing parking lot at Robinson Park.

Project Cost Estimates:

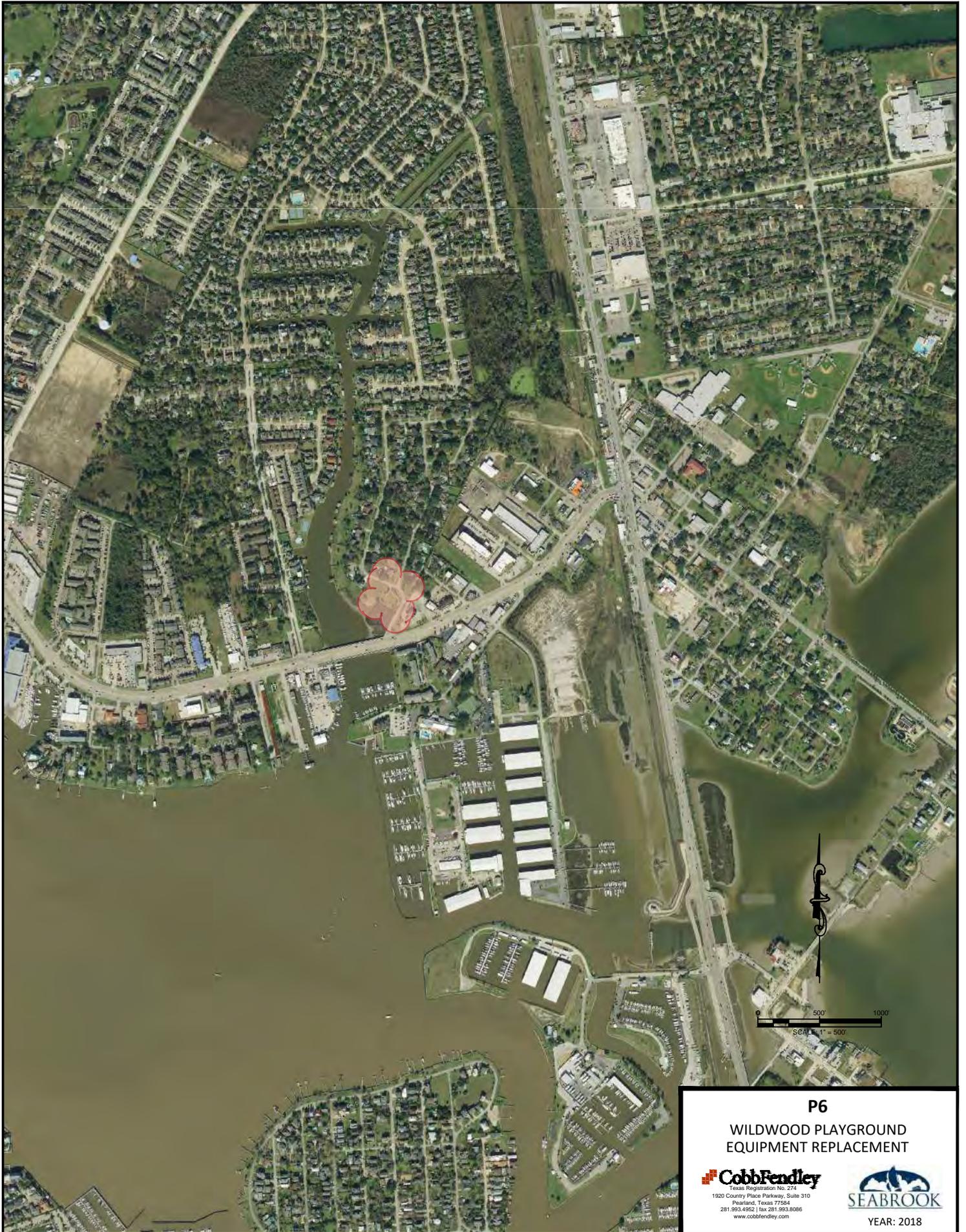
| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|------------------|---------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Engineering/Planning | | \$ - | | | | | \$ - |
| Construction | \$ 18,000.00 | | \$ - | | | | \$ 18,000 |
| Total Cost | \$ 18,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 18,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|------------------|--------------------------------|-------------|-------------|-------------|-------------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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: ____ (PARK IMPROV FUND) | | | | | | | \$ - |
| Park Impact Fees | \$ 18,000 | | | | | | \$ 18,000 |
| Total Funding | \$ 18,000 | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 18,000 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------|----------|------|--------------|---------------------|
| Parking Lot | 1 | LS | \$ 18,000.00 | \$ 18,000.00 |
| Construction Total | | | | \$ 18,000.00 |

Comments/Special Project Notes:



P6

WILDWOOD PLAYGROUND
EQUIPMENT REPLACEMENT

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



YEAR: 2018



0 500 1000
SCALE: 1" = 500'

P7
MEADOR PARK TRAIL LIGHTS

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



YEAR: 2018

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: BAYSIDE KAYAK LAUNCH
Project Location/Limits: BAYSIDE PARK
CIP Number: P8
Facility Type: PARK

Project Description and Justification

This project is to add a kayak boat launch to Bayside Park.

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-------|-------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Engineering/Planning | | | | | | | \$ - |
| Construction | | | | \$ - | \$ - | \$ - | \$ - |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-------|-------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------|----------|------|--------------|------------------|
| Kayak Launch | 1 | LS | \$ 20,000.00 | \$ 20,000.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| Construction Total | | | \$ | 20,000.00 |

Comments/Special Project Notes:

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:

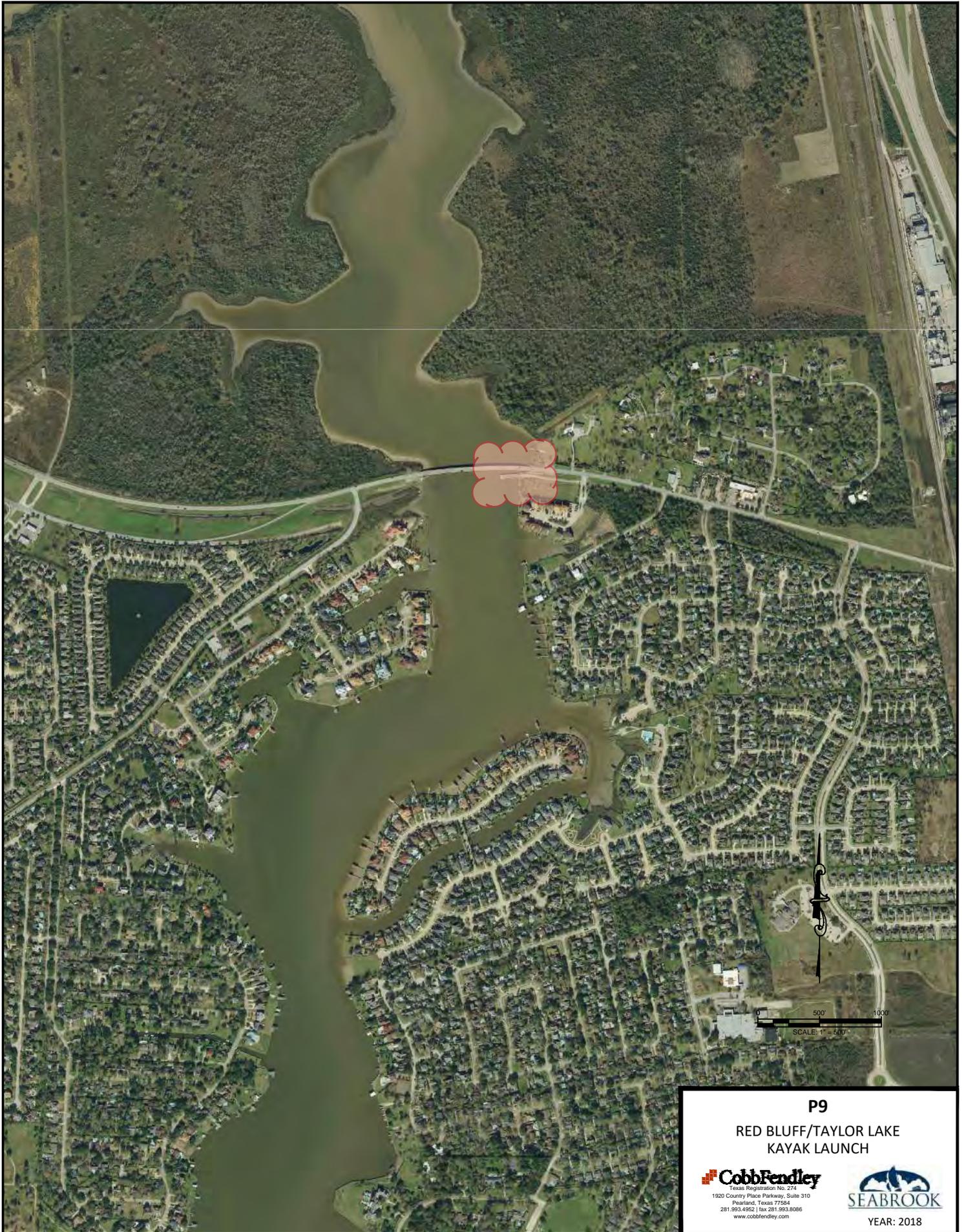
| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|-----------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Engineering/Planning | | | | | | | \$ - |
| Construction | | | | | | \$ 75,000 | \$ 75,000 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 75,000 | \$ 75,000 |

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-----------|------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|---------------------------|----------|------|--------------|---------------------|
| Kayak Launch | 1 | LS | \$ 75,000.00 | \$ 75,000.00 |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| Construction Total | | | | \$ 75,000.00 |

Comments/Special Project Notes:



P9

**RED BLUFF/TAYLOR LAKE
KAYAK LAUNCH**

CobbFendley
Texas Registration No. 274
1920 Country Place Parkway, Suite 310
Pasadena, Texas 77564
281.993.4952 | fax 281.993.8086
www.cobbendley.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:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| Environmental | | | | | | | \$ - |
| Land/Easements Acq. | | | | | | | \$ - |
| Engineering/Planning | | | | | | | \$ - |
| Construction | | | | | | \$ 115,200 | \$ 115,200 |
| Total Cost | \$ - | \$ - | \$ - | \$ - | \$ - | \$ 115,200 | \$ 115,200 |

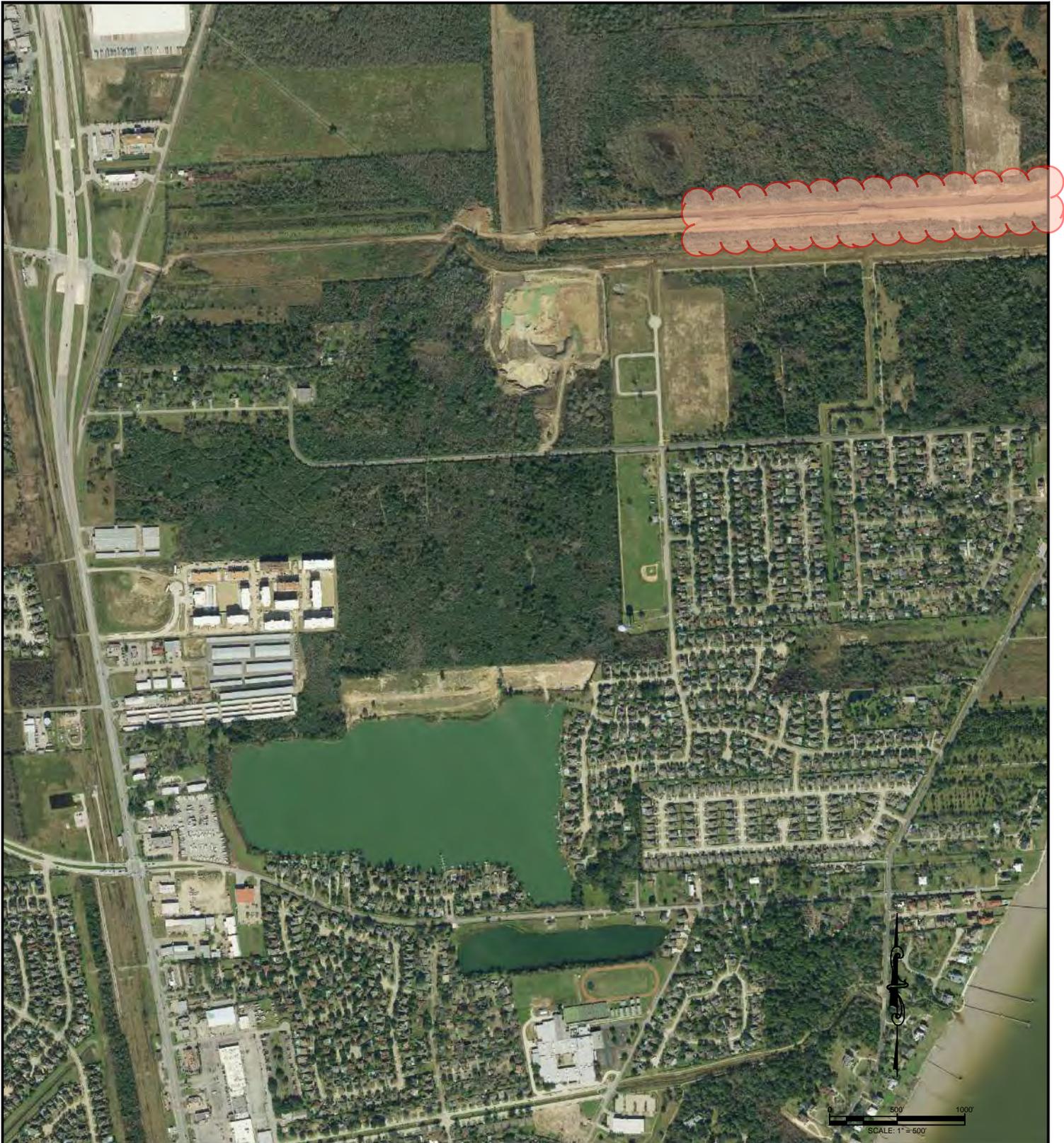
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|------------|-------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--|----------|------|-----------------------------|----------------------|
| Mobilization | 1 | LS | \$ 50,000.00 | \$ 50,000.00 |
| Decomposed Granite (4' Wide, 6" Thick) | 300 | TON | \$ 80.00 | \$ 24,000.00 |
| Class 200 Filter Fabric | 3000 | LF | \$ 3.00 | \$ 9,000.00 |
| Crushed Concrete | 100 | TON | \$ 40.00 | \$ 4,000.00 |
| Drainage Pipe | 100 | LF | \$ 30.00 | \$ 3,000.00 |
| Rest Area Benches | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| Educational Signage | 1 | LS | \$ 3,000.00 | \$ 3,000.00 |
| | | | Project Contingencies (20%) | \$ 19,200.00 |
| | | | Construction Total | \$ 115,200.00 |

Comments/Special Project Notes:

City staff would self perform trail construction.



P10
PINE GULLY HIKE AND BIKE TRAIL EAST



YEAR: 2019



P11
PINE GULLY PIER TEE HEAD
REPLACEMENT



YEAR: 2019

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. Change to S12

Project Cost Estimates:

| Project Cost | Prior Funding | COST BY FISCAL YEAR | | | | | TOTAL |
|----------------------|---------------|---------------------|------|------|--------------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| 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 |

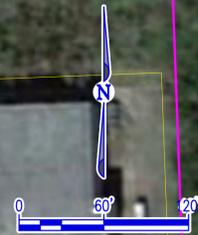
| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|--------------|--------------|---------------------|
| | | FY21 | FY22 | FY23 | FY24 | FY25+ | |
| General Fund -Cash | | | | | | | \$ - |
| 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 |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|-----------------------------------|----------|------|-----------------------------|------------------------|
| Clearing and Grubbing | 4.7 | AC | \$ 7,000.00 | \$ 32,900.00 |
| Excavation | 6000 | CY | \$ 18.00 | \$ 108,000.00 |
| Lime Slurry | 310 | TON | \$ 210.00 | \$ 65,100.00 |
| Mixing and Compacting Subgrade | 14760 | SY | \$ 3.80 | \$ 56,088.00 |
| Dowel into Existing Concrete | 48 | EA | \$ 25.00 | \$ 1,200.00 |
| 10" Reinforced Concrete | 10368 | SY | \$ 80.00 | \$ 829,440.00 |
| 6" Curb | 5300 | LF | \$ 3.50 | \$ 18,550.00 |
| 18" RCP | 600 | LF | \$ 80.00 | \$ 48,000.00 |
| 24" RCP | 750 | LF | \$ 100.00 | \$ 75,000.00 |
| 30" RCP | 500 | LF | \$ 120.00 | \$ 60,000.00 |
| Storm Manhole | 8 | EA | \$ 3,000.00 | \$ 24,000.00 |
| Storm Inlet | 4 | EA | \$ 3,000.00 | \$ 12,000.00 |
| Trench Safety | 1000 | LF | \$ 1.50 | \$ 1,500.00 |
| Curb Inlet | 4 | EA | \$ 2,500.00 | \$ 10,000.00 |
| 5' Sidewalk | 1800 | SY | \$ 57.00 | \$ 102,600.00 |
| Wheelchair Ramp | 4 | EA | \$ 1,000.00 | \$ 4,000.00 |
| Temporary Traffic Control | 6 | MO | \$ 2,000.00 | \$ 12,000.00 |
| 4" White Dashed Pavement Markings | 1600 | LF | \$ 1.75 | \$ 2,800.00 |
| 4" Yellow Solid Pavement Markings | 1600 | LF | \$ 1.75 | \$ 2,800.00 |
| Traffic Paint Striping | 3600 | SF | \$ 1.75 | \$ 6,300.00 |
| Type II-AA Pavement Markers | 300 | EA | \$ 4.50 | \$ 1,350.00 |
| Type I-C Pavement Markers | 115 | EA | \$ 4.50 | \$ 517.50 |
| White Traffic Buttons | 50 | EA | \$ 3.50 | \$ 175.00 |
| Yellow Traffic Buttons | 150 | EA | \$ 3.50 | \$ 525.00 |
| Word "ONLY" Pavement Marking | 3 | EA | \$ 200.00 | \$ 600.00 |
| Arrow Symbol Pavement Marking | 16 | EA | \$ 175.00 | \$ 2,800.00 |
| 12" Water Line | 1600 | LF | \$ 44.00 | \$ 70,400.00 |
| Fire Hydrant Assembly | 6 | EA | \$ 3,700.00 | \$ 22,200.00 |
| 6-Inch Gate Valve | 4 | EA | \$ 1,000.00 | \$ 4,000.00 |
| 12-Inch Gate Valve | 2 | EA | \$ 2,500.00 | \$ 5,000.00 |
| Cast Iron Fittings | 1 | TON | \$ 3,500.00 | \$ 3,500.00 |
| Sanitary Sewer Manhole | 6 | EA | \$ 3,250.00 | \$ 19,500.00 |
| 10-Inch Sanitary Sewer Line | 1600 | LF | \$ 38.00 | \$ 60,800.00 |
| Trench Safety 5'-10' | 800 | LF | \$ 1.00 | \$ 800.00 |
| Trench Safety 10'-15' | 1000 | LF | \$ 1.00 | \$ 1,000.00 |
| 6-Inch Schedule 80 Conduit | 1600 | LF | \$ 22.00 | \$ 35,200.00 |
| Quazite Tier 15 Pull Boxes | 6 | EA | \$ 2,500.00 | \$ 15,000.00 |
| CenterPoint Underground Power | 1 | LS | \$ 75,000.00 | \$ 75,000.00 |
| Sodding for Erosion Control | 1000 | SY | \$ 8.00 | \$ 8,000.00 |
| Hydromulch Seeding | 2 | AC | \$ 2,500.00 | \$ 5,000.00 |
| SWPPP | 1 | LS | \$ 17,000.00 | \$ 17,000.00 |
| Cement Stabilized Sand | 50 | TON | \$ 175.00 | \$ 8,750.00 |
| | | | Project Contingencies (25%) | \$ 457,348.88 |
| | | | Construction Total | \$ 2,286,744.38 |

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.



LANDSCAPE
1.017 ACRES
44,320 SQ FT

PROP. OLD HWY 146
(60' R.O.W.)

BAYVIEW STREET (60' R.O.W.)

RED BLUFF RD
(90' R.O.W.)

PROP. STARBOARD SIDE DR
(80' R.O.W.)

PROP. ROW DE
5.070 ACRES
(220,841 SQ FT)

TRACT 1
17.599 ACRES
(766,606 SQ FT)

TRACT 2
10.322 ACRES
(449,638 SQ FT)

CALL 4.2835 ACRES
CONVEYED TO
SOVRAN ACQUISITION
LIMITED PARTNERSHIP
H.C.C.F. NO. U253241

06/02/2017 04:00 - C:\Temp\CAD\Asp\publish_4612 - 5945 Land Plans.dwg - LAND PLAN

| REV | DATE | DESCRIPTION |
|-----|------|-------------|
| | | |



HUTCHISON & ASSOCIATES
ENGINEERS LAND PLANNERS SURVEYORS
TSP# FIRM REGISTRATION # F-267

BH

1209 DECKER DR.
BAYTOWN, TEXAS 77520
TEL (281) 422-8212 FAX (281) 420-2717
www.hutchisonassoc.com

BAYVIEW DEVELOPMENT

LAND PLAN
1929 BAYVIEW DR
SEABROOK TX 77586
HARRIS COUNTY

| DATE | BY | NO. | REV. |
|-------|---------------|------|------|
| LR | LR | 620F | |
| SCALE | 1" = 60' | 5845 | |
| DATE | JUNE 30, 2017 | | |
| | | | |

PROPOSED CAPITAL IMPROVEMENT PROJECTS

Project Title: PROPOSED RED BLUFF EXTENSION
Project Location/Limits: RED BLUFF/STARBOARD INTERSECTION TO OLD SH 146/REDBLUFF INTERSECTION
CIP Number: EDC2
Facility Type: EDC2

Project Description and Justification

Project Cost Estimates:

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

| Funding Source | Prior Funding | FUNDING SOURCES BY FISCAL YEAR | | | | | TOTAL |
|----------------------------------|---------------|--------------------------------|------|------|------|-------|-------|
| | | FY19 | FY20 | FY21 | FY22 | FY23+ | |
| 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 | | | | | | | \$ - |
| Fund 28 Gen CIP | | | | | | | \$ - |
| TBD | | | | | | | \$ - |
| Other: ____ (Fund/Agency) | | | | | | | \$ - |
| Park Impact Fees | | | | | | | \$ - |
| Total Funding | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |

Opinion of Probable Construction Cost Estimate

| Description | Quantity | Unit | Unit Price | Total Cost |
|--------------------------------|----------|------|-------------|------------|
| Clearing and Grubbing | | AC | \$ 7,000.00 | \$ - |
| Excavation | | CY | \$ 18.00 | \$ - |
| Lime Slurry | | TON | \$ 210.00 | \$ - |
| Mixing and Compacting Subgrade | | SY | \$ 3.80 | \$ - |
| Dowel into Existing Concrete | | EA | \$ 25.00 | \$ - |
| 10" Reinforced Concrete | | SY | \$ 80.00 | \$ - |
| 6" Curb | | LF | \$ 3.50 | \$ - |
| 18" RCP | | LF | \$ 80.00 | \$ - |
| 24" RCP | | LF | \$ 100.00 | \$ - |
| 30" RCP | | LF | \$ 120.00 | \$ - |
| Storm Manhole | | EA | \$ 3,000.00 | \$ - |
| Storm Inlet | | EA | \$ 3,000.00 | \$ - |

| | | | | | |
|-----------------------------------|-----|----|-----------------------------|----|---|
| Trench Safety | LF | \$ | 1.50 | \$ | - |
| Curb Inlet | EA | \$ | 2,500.00 | \$ | - |
| 5' Sidewalk | SY | \$ | 57.00 | \$ | - |
| Wheelchair Ramp | EA | \$ | 1,000.00 | \$ | - |
| Temporary Traffic Control | MO | \$ | 2,000.00 | \$ | - |
| 4" White Dashed Pavement Markings | LF | \$ | 1.75 | \$ | - |
| 4" Yellow Solid Pavement Markings | LF | \$ | 1.75 | \$ | - |
| Traffic Paint Striping | SF | \$ | 1.75 | \$ | - |
| Type II-AA Pavement Markers | EA | \$ | 4.50 | \$ | - |
| Type I-C Pavement Markers | EA | \$ | 4.50 | \$ | - |
| White Traffic Buttons | EA | \$ | 3.50 | \$ | - |
| Yellow Traffic Buttons | EA | \$ | 3.50 | \$ | - |
| Word "ONLY" Pavement Marking | EA | \$ | 200.00 | \$ | - |
| Arrow Symbol Pavement Marking | EA | \$ | 175.00 | \$ | - |
| 12" Water Line | LF | \$ | 44.00 | \$ | - |
| Fire Hydrant Assembly | EA | \$ | 3,700.00 | \$ | - |
| 6-Inch Gate Valve | EA | \$ | 1,000.00 | \$ | - |
| 12-Inch Gate Valve | EA | \$ | 2,500.00 | \$ | - |
| Cast Iron Fittings | TON | \$ | 3,500.00 | \$ | - |
| Sanitary Sewer Manhole | EA | \$ | 3,250.00 | \$ | - |
| 10-Inch Sanitary Sewer Line | LF | \$ | 38.00 | \$ | - |
| Trench Safety 5'-10' | LF | \$ | 1.00 | \$ | - |
| Trench Safety 10'-15' | LF | \$ | 1.00 | \$ | - |
| 6-Inch Schedule 80 Conduit | LF | \$ | 22.00 | \$ | - |
| Quazite Tier 15 Pull Boxes | EA | \$ | 2,500.00 | \$ | - |
| CenterPoint Underground Power | LS | \$ | 75,000.00 | \$ | - |
| Sodding for Erosion Control | SY | \$ | 8.00 | \$ | - |
| Hydromulch Seeding | AC | \$ | 2,500.00 | \$ | - |
| SWPPP | LS | \$ | 17,000.00 | \$ | - |
| Cement Stabilized Sand | TON | \$ | 175.00 | \$ | - |
| | | | Project Contingencies (25%) | \$ | - |
| | | | Construction Total | \$ | - |

Comments/Special Project Notes: