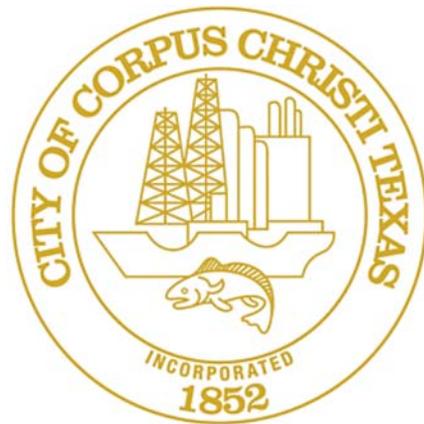


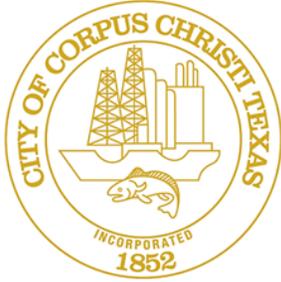


ADOPTED CAPITAL BUDGET &  
CAPITAL IMPROVEMENT  
PLANNING GUIDE  
**FY 2017-2018**  
CITY OF CORPUS CHRISTI



ADOPTED BY CITY COUNCIL  
ORDINANCE NO. 031249 ON SEPTEMBER 19, 2017  
CITY MANAGER MARGIE C. ROSE





Mark Van Vleck  
*Assistant City Manager*

Keith Selman  
*Assistant City Manager*

Sylvia Carrillo  
*Assistant City Manager*



**Margie C. Rose**  
*City Manager*

## PROJECT TEAM

### **Management & Budget**

Eddie Houlihan  
*Director of Management & Budget*

Christine Garza M.B.A.  
*Budget Manager*

Kamil Taras  
*Budget Analyst II*

### **Capital Programs**

Valerie Gray, P.E.  
*Executive Director of Public Works*

Jeffery Edmonds, P.E.  
*Director of Engineering Services*

Lynda Herndon, C.P.M.  
*Business Manager*

### **Finance**

Constance P. Sanchez, C.P.A.  
*Director of Financial Services*

Martha A. Messer, C.P.A.  
*Chief Accountant*

Jason Gooding  
*Senior Accountant—CIP*

Adriane Ferraro  
*Supervising Accountant—Utilities*

This document was prepared by Engineering Services, with contributions by Planning/Environmental Services and Finance, and compiled by Office of Management & Budget

For additional information or questions, please contact:

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Post Office Box 9277  
Corpus Christi, Texas 78469-9277  
361.826.3660



**Paulette M. Guajardo**  
Council Member  
At Large



**Carolyn Vaughn**  
Council Member



**Ben Molina**  
Council Member



**Greg Smith**  
Council Member



**Michael T. Hunter**  
Council Member  
At Large



**Lucy Rubio**  
Council Member



**Rudy Garza Jr.**  
Council Member



**Debbie Lindsey-Opel**  
Council Member  
At Large

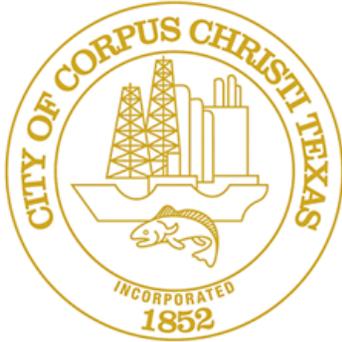


**Joe McComb**  
Mayor



2017-2018

# City of Corpus Christi, Texas, City Council



Established by ordinance in 1937, the Planning Commission reviews and makes recommendations to the City Council on the City's annual capital budget and any capital improvement bond program. The Planning Commission consists of nine registered voters of the city. The members are appointed by the City Council for staggered terms of three years. The commission elects a chairperson from its membership each year at the first meeting in August and shall not meet less than once a month for each month. Any vacancy in an unexpired term shall be filled by the City Council for the remainder of the term. Current members include (with term expiration date):

Eric Villarreal (exp. 7.31.19)  
*Chair*

Mike Lippincott (exp. 7.31.18)  
*Vice-Chair*

Heidi Hovda (exp. 7.31.20)

Carl Crull (exp. 7.31.20)

Frank Hastings (exp. 7.31.18)

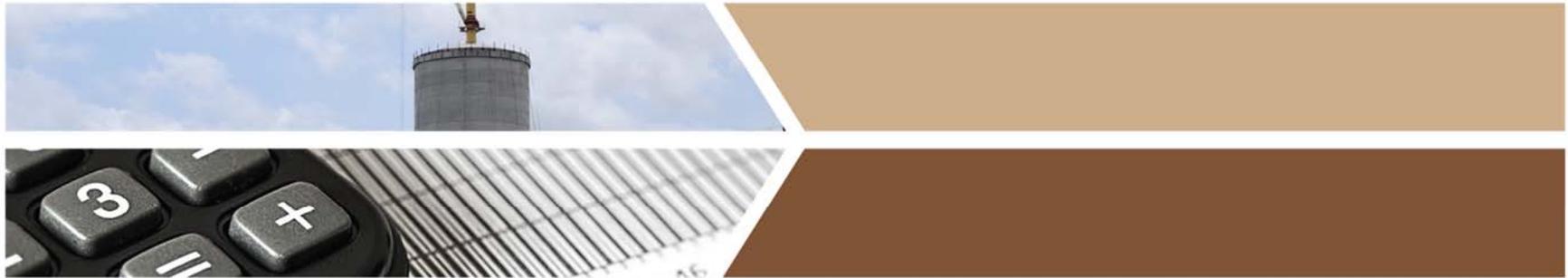
Jeremy Baugh (exp. 7.31.19)

Marsha Williams (exp. 7.31.20)

Daniel M. Dibble (exp. 7.31.19)

Sheldon Schroeder (exp. 7.31.18)

## **2017 Corpus Christi Planning Commission**



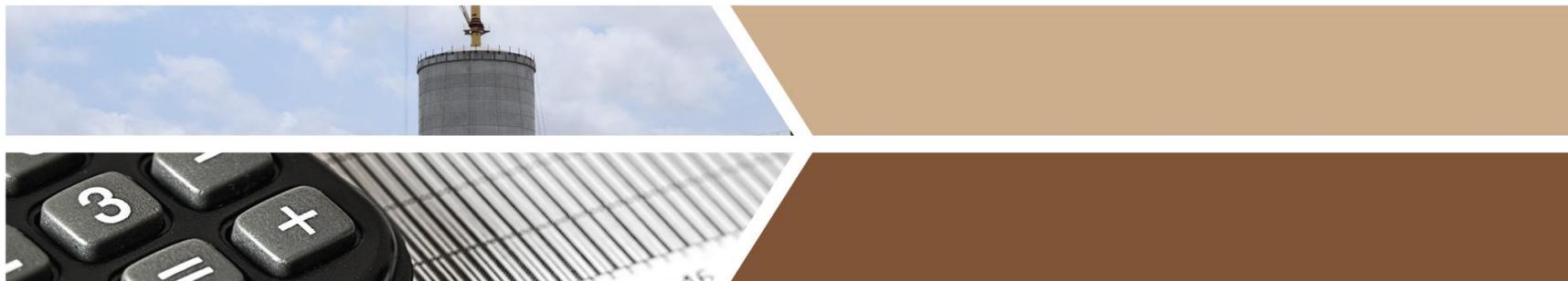
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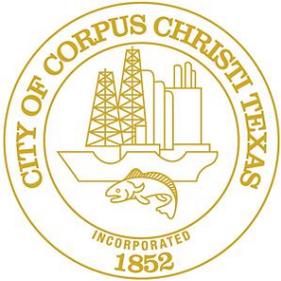
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# CITY MANAGER'S MESSAGE

Obligation to the Future



## *City of Corpus Christi, Texas*

*Office of the City Manager*

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Honorable Mayor, City Council Members, and Residents of Corpus Christi:

Contained herein is the Fiscal 2017 - 2018 Adopted Capital Budget and Capital Improvement Planning Guide, also known as the Capital Improvement Program (CIP). The purpose of the CIP is to identify, plan, prioritize, and fund, the construction of projects needed to enhance or maintain the quality of life for this community. This document serves as both a budget for fiscal year 2018 and a major planning tool for subsequent years. The ten-year CIP is dynamic in nature and is reviewed and revised annually to ensure projects of greatest need receive the highest priority. Project priorities and available funding are constantly monitored to ensure adequate funding for critical projects and voter-approved projects are completed in a timely manner. This document reflects the City's planned investment in municipal infrastructure and facilities over the next ten years.

The CIP incorporates project scopes, costs, and schedules over the next ten years. The individual project pages contain project descriptions which represent brief synopses of the entire project scope; these descriptions are generally more precise for ongoing active projects than for planned new projects, where specific project activities may have yet to be determined. Costs already incurred and future cost estimates are listed for each project. Future costs have been estimated and are shown on a cash flow basis for each fiscal year. Both estimated award design and construction dates are included; and for new projects yet to be designed, timeframes represent an estimated schedule based on their priority sequencing and available funding. The architect/engineer and contractor are listed where applicable. Finally, the expected operational impact and governing master plan reference has been included.

The CIP document includes:

- a fully-funded work plan for Year One, based on available financial capacity and greatest prioritized needs;
- a short-range forecast to facilitate needs-based planning for Years Two and Three, and
- a long-range forecast is located at the back of most sections. The long-range forecast consists of items considered important, but not yet funded, for sustainability of existing infrastructure, accommodation of growth, and enhanced community enrichments for the next four to ten years.

Managing an effective capital program in tough economic times has been a challenge. The ten-year Utility Financial Plan has been included in the utility rate model that projects revenue requirements and long-term rate impacts required to fund proposed projects and proposed utility operations/debt service. These rates are formally presented in the operating budget and presented to City Council for consideration and approval.

## **CAPITAL BUDGET HIGHLIGHTS**

### **AIRPORT PROGRAM**

The Master Plan Update for the Corpus Christi International Airport establishes a program for improvement and development of additional facilities over the next twenty (20) years. It sets the course for development of the Airport to ensure available assets can meet projected needs and customer demands. As a result, the Fiscal Year 2017–2018 Airport Capital Improvement program reflects a comprehensive evaluation of Airport needs in a clear and realistic plan for current and future growth. Planned projects support City Council goals of enhanced economic development and promote the airport as an aviation gateway to the South Texas coastal area.

### **PARKS AND RECREATION PROGRAM**

The Parks and Recreation Program is committed to providing social, recreational and cultural events and opportunities for the community as well as visitors to Corpus Christi. This program commitment was supported by voter approval of the November 2012 Bond election which provided funding to create new and renovate existing parks and recreational facilities throughout the City. Many projects listed in Bond Issue 2012 Parks Program started construction in FY 2016 and construction of various amenities will take place throughout Fiscal Year 2018.

## **PUBLIC FACILITIES PROGRAM**

The focus of the Public Facilities Program for Fiscal Year 2018 will be directed at design and construction of projects identified through a Recapitalization Plan to determine operational integrity and extended maintenance needs of city-owned facilities located throughout the area. A recommended commitment of \$2 million per year will be used to address projects on a yearly basis to the extent funding allows, if approved. Additional planned projects include construction of improvements approved by City voters in Bond 2012 Public Facility Program.

## **PUBLIC HEALTH & SAFETY PROGRAM**

The Public Health & Safety Program is highlighted by construction of projects that improve service delivery, protect existing equipment, enhance comfort of the public and invest in projects that will increase revenue. Improvements at J.C. Elliott and Cefé Valenzuela landfills include planning for future waste disposal needs and minimizing costs through technological advances. General Obligation Bond 2012 Projects include construction of Phase Two of a Vehicle Impound Yard and Garage. Projects utilizing Sales Tax proceeds will be considered by the Corpus Christi Business and Job Development Corporation and must be approved by City Council prior to beginning work.

## **STREETS PROGRAM**

Street quality has an impact on every resident, business, and visitor of our City. Accessibility to businesses, schools, and residential areas impact our citizen's quality of life. The Fiscal Year 2017–2018 Street Capital Improvement Program contains projects that maintain or improve roadway infrastructure, ensure adequate street lighting, comply with Americans with Disability (ADA) Act requirements and promote safe and efficient traffic flow. The City of Corpus Christi continues to maximize project funding by actively seeking joint participation with other governmental entities (i.e. TxDOT, MPO, CDBG, etc.) to complete street projects with a maximum benefit for citizens. This year's budget focuses on construction of projects approved in 2012, 2014 and 2016 Bond Elections including the Residential Street Rebuild program (RSRP). Over 50% of the City's residential streets are in poor condition and the RSRP is the first step towards addressing the situation. Pilot projects will begin construction during Fiscal Year 2018 and the RSRP will select residential streets that will be designed and repairs constructed during FY 18 for a program total of \$11M. The Street Capital Improvement Program includes specific financial details of required utility adjustments to reflect total project cost and capital value of each project.

## **GAS PROGRAM**

This year's Gas Department Capital Improvement Program represents a large investment for the City's natural gas system to address increased growth in the area, expand market development and invest in infrastructure needs. Previous pipeline expansion projects and pipeline acquisitions have come together to improve service, reliability, cut costs and adequately plan for the future of our distribution system.

Included in the Gas Capital Improvement Program are critical expansion requirements for main distribution supply lines throughout the city. These projects will connect the existing City distribution system to the North Beach distribution system, the Annville/Calallen distribution system, and the Padre Island System. When complete, the Gas Department will have consolidated from five independent distribution systems to one. With the expansion of the main distribution supply line to the Annville/Calallen, North Beach, Violet, and Padre Island areas, the reliability of the distribution system as a whole will be greatly increased and redundancy accomplished. In addition, deliverability and capacity of the system is anticipated to increase.

## **STORM WATER PROGRAM**

This year's Storm Water Capital Improvement Program represents a significant investment in the City's storm water system to address increased development and critical storm water infrastructure throughout the City. Planned improvements will allocate resources for improving major and minor channels, underground main trunk lines, box culverts, collection systems, curb & gutter, inlets and outfall structures, as required by the City's Texas Pollutant Discharge Elimination System (TPDES) Permit. Significant initiatives included in the Capital Improvement Program focus on ensuring compliance with state and federal regulatory requirements and planning to address capacity limitations of existing systems.

## **WATER PROGRAM**

The City's Fiscal Year 2017–2018 Water Capital Improvement program represents a significant investment of resources to enable delivery of a reliable source of potable water to residents while balancing the long-term needs of the City and the region. Through periodic updates of the City-Wide Water Distribution Master Plan, local and area needs are modeled and the information is used in the development of a capital program responsive to population growth, rehabilitation/replacement of aging infrastructure, and meeting regulatory requirements while remaining attentive to funding limitations. This year's Water CIP includes projects relating to Water Treatment, Network and Distribution Improvements.

## **WATER SUPPLY PROGRAM**

Water Supply projects are designed to maintain the City's existing water supply facilities and to provide additional delivery facilities and supply sources. Fiscal Year 2018 projects address long term water needs and investigate alternate water delivery methods with a demonstration project to site, construct, and implement a test desalination plant operating at 200,000 gallons per day. An additional project will provide for significant improvements to the Wesley Seale Dam system over the next several years.

## **WASTEWATER PROGRAM**

This year's Wastewater Capital Improvement Program represents a significant investment in the City's aging wastewater system. Planned improvements will allocate resources between upgrading of treatment facilities, improved capacity of wastewater mains, reduction of wastewater odors, and securing alternate power at critical facilities. Significant initiatives included in the CIP are focused on insuring compliance with state and federal regulatory requirements. The City of Corpus Christi's Wastewater Department is currently responsible for six wastewater treatment plants, 103 lift stations, approximately 1,243 miles of wastewater mains, and approximately 100 miles of force mains.

In conclusion, this document recognizes that maintenance and provision of public facilities and infrastructure is critical to enhancing our citizen's quality of life and encouraging economic growth. This document reflects a concerted effort to achieve a balance between available resources and necessary improvements. I would like to express my appreciation to the team responsible for its compilation.

Respectfully,



Margie C. Rose  
City Manager

# CIP Planning Guide - Major Sections

Term

Years 4+

Long-Range CIP

Description

Planned Funding

Years 2&3

Short-Range CIP

Programmed Funding

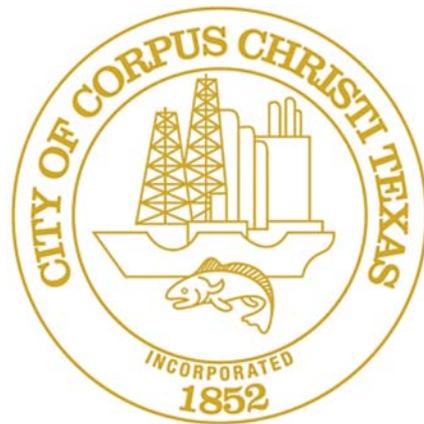
Year 1

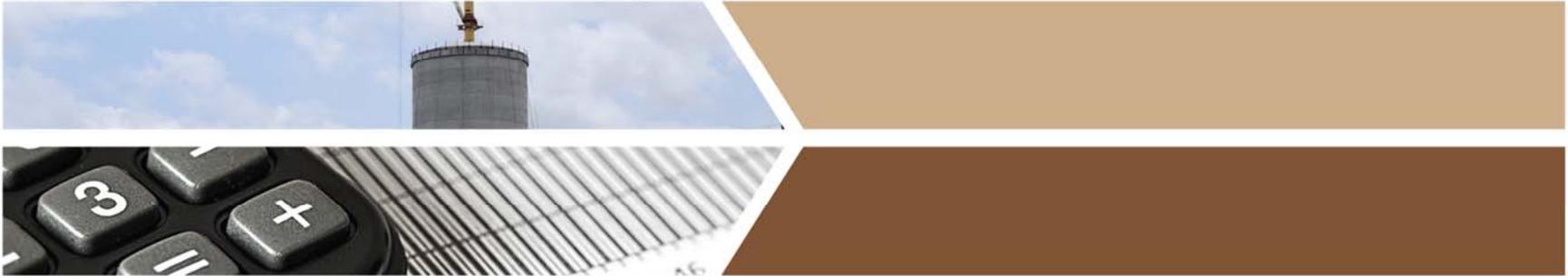
Annual Capital Budget

1<sup>st</sup> Year of Short-Range CIP – Fully Funded

## **FY 2018 CAPITAL BUDGET SCHEDULE**

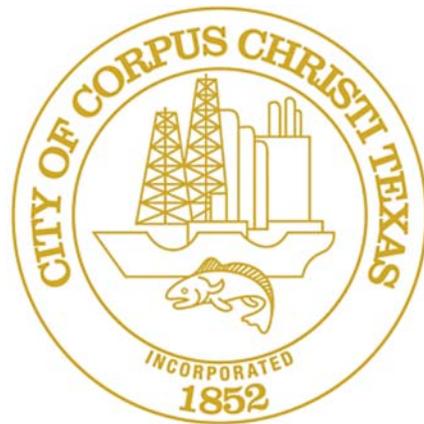
<b>Friday, April 28, 2017</b>	<b>Work begins on Compiling Project Pages for CIP Book Sections</b>
<b>Monday, June 16, 2017</b>	<b>Draft Capital Budget Book Short-Range Pages Delivered to Executive Committee for Review and Comment</b>
<b>Wednesday July 12, 2017</b>	<b>Planning Commission Meeting – Document Overview, Public Hearing &amp; Recommendations</b>
<b>Friday, July 21, 2017</b>	<b>Draft Capital Budget Book Given to Planning Committee</b>
<b>Wednesday, July 26, 2017</b>	<b>Draft Capital Budget Book Presentation to Planning Committee</b>
<b>Wednesday August 2, 2017</b>	<b>Proposed Capital Budget Book Given to City Council</b>
<b>Tuesday, August 8, 2017</b>	<b>Council Capital Budget Presentation</b>
<b>Tuesday August 22, 2017</b>	<b>Public Hearing on Proposed Capital Budget</b>
<b>Tuesday, August 29, 2017</b>	<b>Regular City Council Meeting- Council Discussion/1<sup>st</sup> Reading &amp; Approval</b>
<b>Tuesday, September 12, 2017</b>	<b>Regular City Council Meeting-Council Discussion/ 2<sup>nd</sup> Reading &amp; Approval</b>



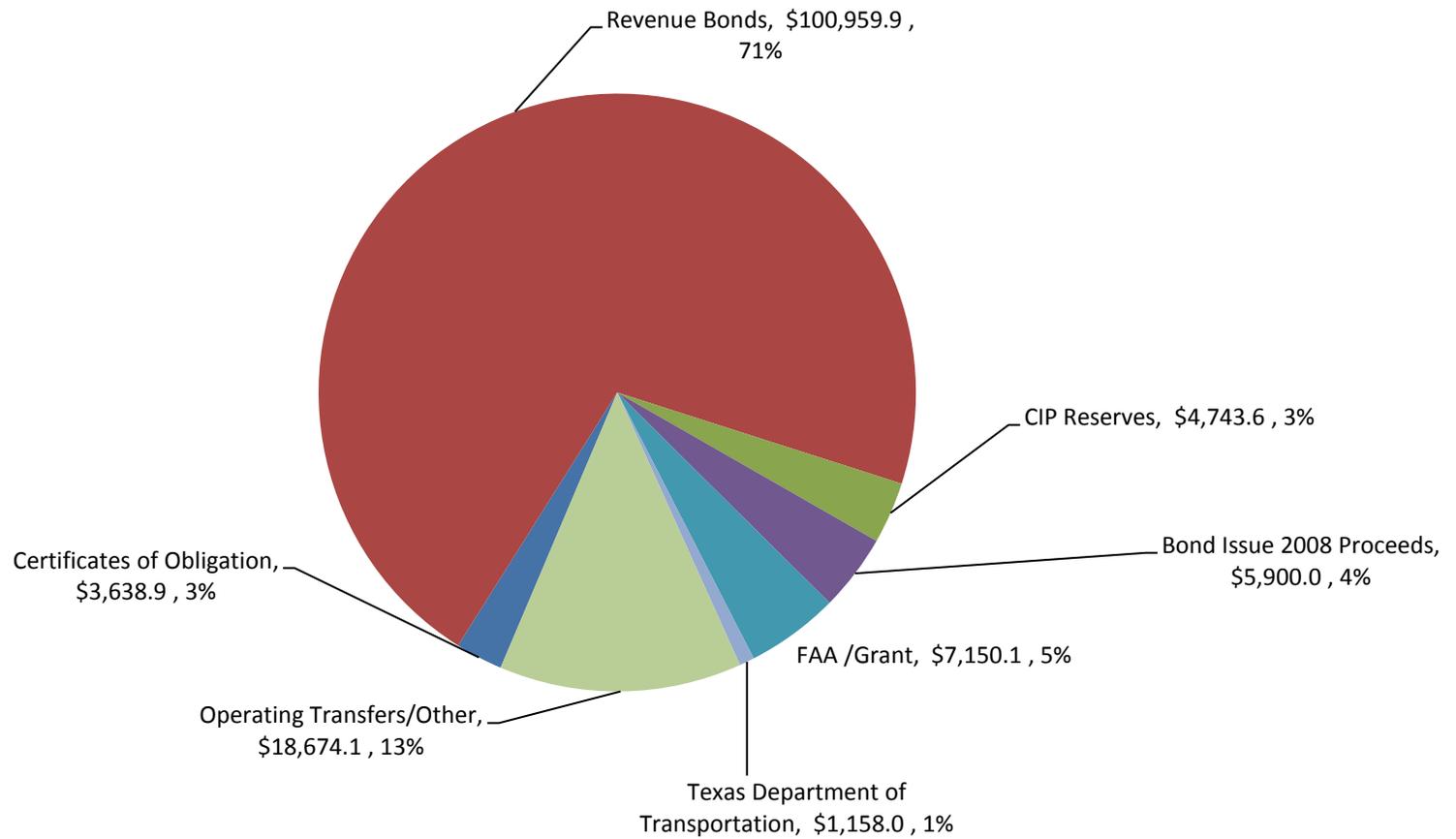


# CAPITAL BUDGET

Obligation to the Future



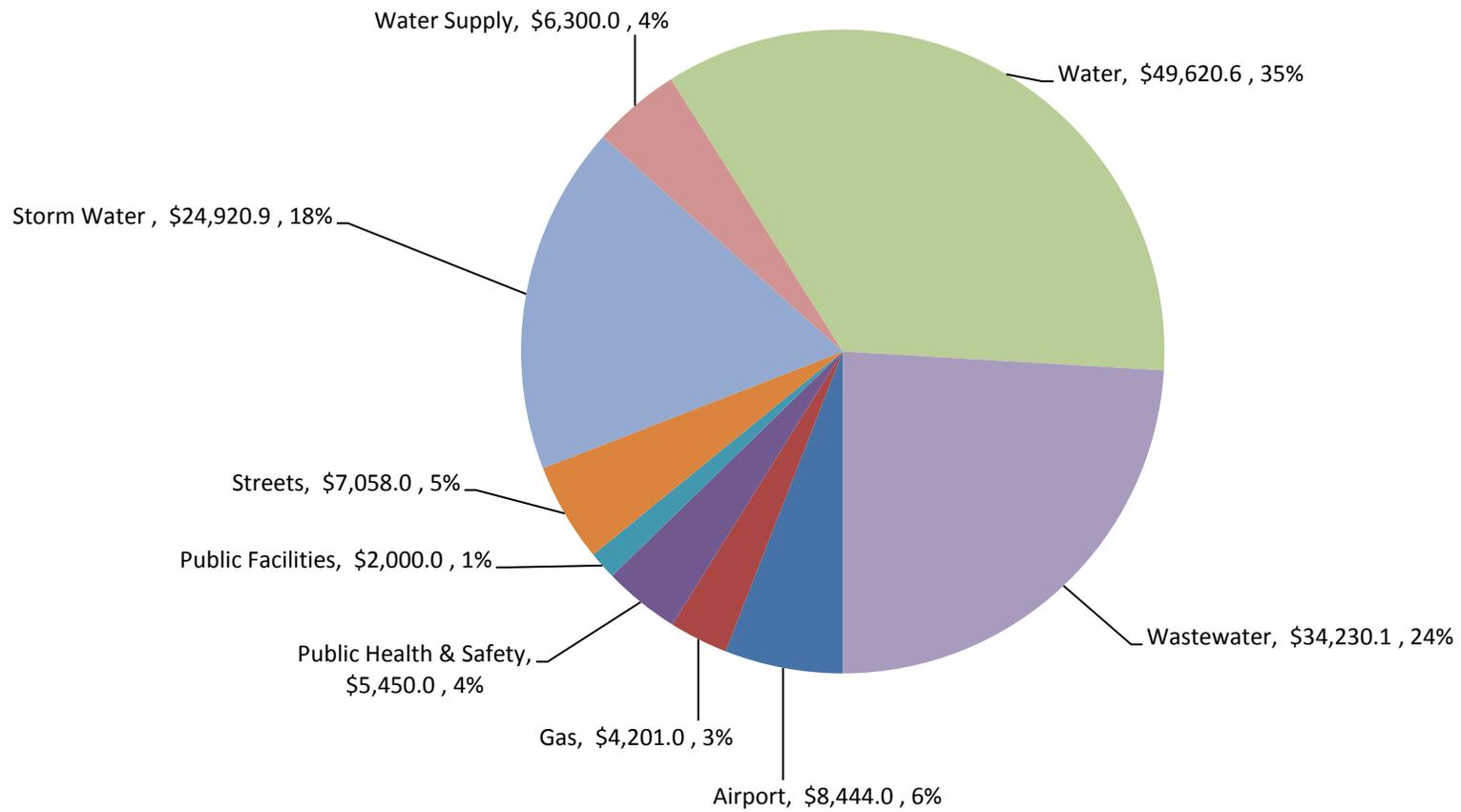
## 2018 Funding Sources by Type: \$142,224.6 (Amounts in 000's)



**2018 CAPITAL BUDGET SUMMARY**  
**(Amounts in 000's)**

<b>Funding Sources by Type</b>	<b>Amount</b>	<b>% of Total</b>
CIP Reserves	\$ 4,743.6	3.3%
Certificates of Obligation	3,638.9	2.6%
Revenue Bonds	100,959.9	71.0%
Bond Issue 2008 Proceeds	5,900.0	4.1%
FAA/ Grant	7,150.1	5.0%
Texas Department of Transportation	1,158.0	0.8%
Operating Transfer/Other	18,674.1	13.1%
 Total FY 2018 Capital Sources	 <u>\$ 142,224.6</u>	 <u>100%</u>

## 2018 Funding Uses by Program: \$142,224.6 (Amounts in 000's)



## 2018 CAPITAL BUDGET SUMMARY

(Amounts in 000's)

<b>Funding Uses by Program</b>	<b>Amount</b>	<b>% of Total</b>
Airport	8,444.0	5.9%
Parks & Recreation	-	0.0%
Public Facilities	2,000.0	1.4%
Public Health & Safety	5,450.0	3.8%
Streets	7,058.0	5.0%
Gas	4,201.0	3.0%
Storm Water	24,920.9	17.5%
Water Supply	6,300.0	4.4%
Water	49,620.6	34.9%
Wastewater	34,230	24.1%
Total FY 2018 Capital Uses	<u>\$ 142,224.6</u>	<u>100%</u>

**2018 CAPITAL BUDGET  
(Amounts in 000's)**

<b>PROJECT RECOMMENDATIONS</b>		<b>FUNDING SOURCES</b>	
<b>Airport</b>			
Reconstruct Air Carrier Ramp	\$ 5,555.0	FAA Grant	\$ 7,150.1
Terminal Building Assessment/Rehabilitation	300.0	Airport CIP Reserves	1,055.0
Rehabilitate East General Aviation (EGA) Apron	2,389.0	Certificates of Obligation	238.9
Reconstruction of Glasson Road & Pinson Road	200.0	CFC	
<b>Total Projects:</b>	<b>\$ 8,444.0</b>	<b>Total Funding:</b>	<b>\$ 8,444.0</b>
<b>Parks &amp; Recreation</b>			
No Projects for FY18		Community Dev Block Grant	
		Tax Increment Finance District	
<b>Total Projects:</b>	<b>\$ -</b>	<b>Total Funding:</b>	<b>\$ -</b>
<b>Public Facilities</b>			
Central Library Roof Replacement	\$ 865.0	Certificates of Obligation	\$ 2,000.0
Roof Replacement & Upgrade Projects	\$ 1,135.0		
<b>Total Projects:</b>	<b>\$ 2,000.0</b>	<b>Total Funding:</b>	<b>\$ 2,000.0</b>
<b>Public Health &amp; Safety</b>			
J.C. Elliot Transfer Station Pavement Improvements	\$ 100.0	Sales Tax Proceeds	\$ 4,050.0
Cefe Valenzuela Landfill Liquids (Leachate) Mgmt	50.0	Certificates of Obligation	1,400.0
Cefe Valenzuela Landfill Disposal Cells Interim Covers - Cells 3D, 4A & 4B	350.0		
Cefe Valenzuela Landfill Haul Road Improvements	200.0		
Cefe Valenzuela Landfill Water Control for Fire Protection and Irrigation	50.0		
J.C. Elliot Landfill Leachate Collection System Upgrade	300.0		
Cefe Valenzuela Landfill Disposal Cells Construction Sectors 2A & 2B	25.0		
Landfill Erosion Control Lifecycle Improvements	75.0		
Solid Waste Small Construction Engineering	250.0		
Seawall Capital Repairs	500.0		
Barge Dock Improvements	500.0		
Salt Flats Levee Improvements	300.0		
Marina Breakwater at Magee Beach Improvements	1,250.0		
Science & History Museum Flood Wall	1,000.0		
Kinney & Power Street Pump Station Improvements	500.0		
<b>Total Projects:</b>	<b>\$ 5,450.0</b>	<b>Total Funding:</b>	<b>\$ 5,450.0</b>
<b>Streets</b>			
Gollihar Rd - Weber Rd to Carroll Lane	\$ 2,019.0	Street Reserves	\$ -
S Alameda St - Ayers St to Louisiana Ave	1,863.2	Bond Issue 2008 Proceeds	5,900.0
Six Points Intersection Improvements	938.0	Certificates of Obligation	
Ocean Dr - Buford St to Louisiana Ave	3,015.0	Bond Issue 2004 Proceeds	1,158
Tuloso Rd - Interstate Highway 37 to Leopard St		Revenue Bonds	-
S Staples St - Brawner Parkway to Kostoryz Rd	1,090.0		
Morgan Ave - Ocean Dr to S Staples St	222.6		
Gollihar Rd - S Staples St to Weber Rd	2,161.2		
Corona Dr - Flynn Parkway to Everhart	450.0		

**2018 CAPITAL BUDGET**  
**(Amounts in 000's)**

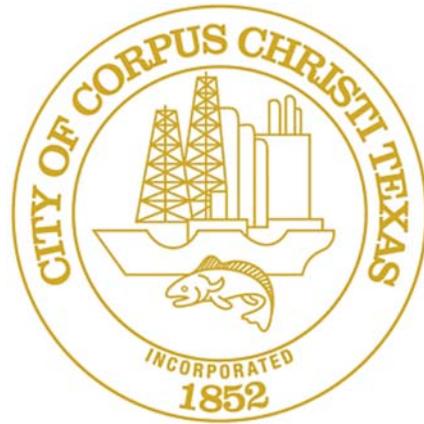
<b>PROJECT RECOMMENDATIONS</b>		<b>FUNDING SOURCES</b>	
<b>Streets (Con't)</b>			
Williams Dr Ph3 - S Staples to Airline Rd	2,043.0		
Ayres St - Pedestrian Improvements and Turn Land Addition	3,810.0		
Flato Road - Agnes to Bates	2,234.3		
Yorktown Rd - Everhart Rd to S Staples	100.0		
Carroll Lane - Houston to McArdle Rd	2,091.5		
Old Robstown Rd - State Highway 44 to Leopard St	2,421.0		
Chaparral St Ph2 - Downtown Development Master Plan	1,441.8		
Rodd Field Rd Expansion - Saratoga to Yorktown	3,562.0		
Ennis Joslin Extension - Holly to Williams	2,370.0		
Park Rd 22 Bridge	7,058.0		
Utility relocations funded by Utilities (See Airport, Storm Water, Water, Gas, & Wastewater)	(31,832.6)		
<b>Total Projects:</b>	<b>\$ 7,058.0</b>	<b>Total Funding:</b>	<b>\$ 7,058.0</b>
<b>Gas</b>			
New Gas Transmission Main	\$ 700.0		
Gas Line Replacement/Extension Program	1,600.0	Revenue Bonds	4,201.0
Padre Island Water and Gas Line Extension	800.0		
Public Fill CNG Station	500.0		
Cathodic Protection Upgrades	200.0		
Street Utility Relocations	401.0		
<b>Total Projects:</b>	<b>\$ 4,201.0</b>	<b>Total Funding:</b>	<b>\$ 4,201.0</b>
<b>Storm Water</b>			
Lifecycle Pipe Rehabilitation & Replacement	\$ 1,000.0	Revenue Bonds	\$ 21,232.3
La Volla Creek Storm Water Modeling & Improvements	1,500.0	Storm Water Capital Reserve	3,688.6
Gollihar Outfall Repairs	800.0		
Lifecycle Curb and Gutter Replacement	600.0		
Minor Channel Improvements	400.0		
Street Utility Relocations	20,620.9		
<b>Total Projects:</b>	<b>\$ 24,920.9</b>	<b>Total Funding:</b>	<b>\$ 24,920.9</b>
<b>Water Supply</b>			
Mary Rhodes Pipeline Ph1 Pump Station	1,000.0	Revenue Bonds	\$ 5,800.0
Choke Canyon Dam Infrastructure Improvements	500.0	Raw Water Supply Fund	
Mary Rhodes Pipeline Cathodic Protection upgrade	1,000.0	Choke Canyon Trust Fund	500.0
Mary Rhodes Pipeline Office Building	300.0		
Seawater Desalination	1,000.0		
Corpus Christi Aquifer Storage & Recovery Study	500.0		
Weasly Seale Dam Spillway Infrastructure Improvements	2,000.0		
<b>Total Projects:</b>	<b>\$ 6,300.0</b>	<b>Total Funding:</b>	<b>\$ 6,300.0</b>

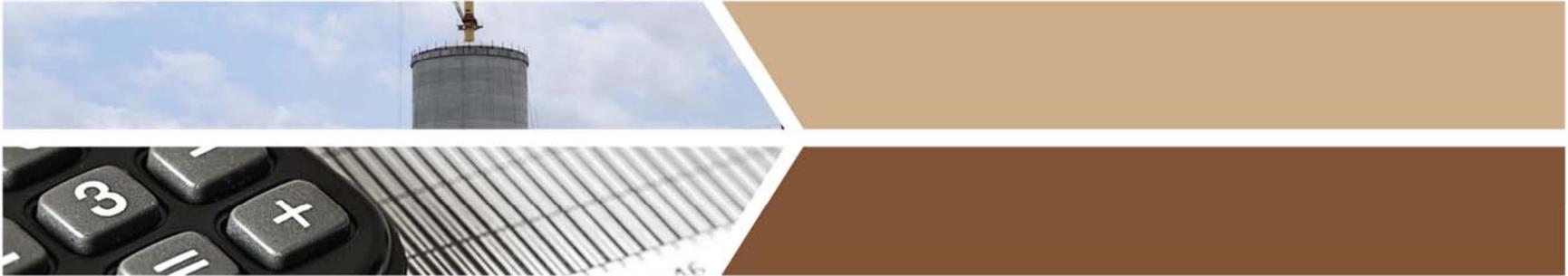
**2018 CAPITAL BUDGET  
(Amounts in 000's)**

PROJECT RECOMMENDATIONS		FUNDING SOURCES	
<b>Water</b>			
Nueces River Raw Water Pump Station Transmission Main	\$ 3,000.0	Revenue Bonds	\$ 48,944.2
Elevated Water Storage Tanks PH2	4,500.0	Water Capital Reserve	
ON Stevens Maintenance Building Relocation	2,400.0	Pay as You Go	676
ONS WTP High Service Building 3	10,000.0		
ONS Water Treatment Plant Fluoride Feed System Improvement	250.0		
ONS Stevens Raw Water Influent and Chemical Facilities Improvements	1,500.0		
ONS WTP Replacement of Sedimentation Basin Sludge Collectors	600.0		
ONS Water Treatment Plant Interim Sludge Mgm't Improvements	5,000.0		
Citywide Water Distribution System IDIQ Program	6,000.0		
Water System Process Control Reliability Improvements	1,000.0		
Staples St Pump Station Ph 2 - 3rd & 4th pumps	550.0		
Padre Island Water Pipeline Extension Ph 3	1,100.0		
Elevated Water Storage Tanks PH3	200.0		
ONS Water Treatment Plant Solids Handling & Disposal Facilities	500.0		
Water Transmission Infrastructure Cathodic Protection Improvements	700.0		
ONS Water Treatment Plant Site Infrastructure Improvements	250.0		
TxDot Water Line Relocation (Harbor Bridge)	3000.0		
City Large-Size Water Line Assessment & Repairs	1,000.0		
Street Utility Relocations	7,570.6		
Nueces River Raw Water Pump Station	\$ 500.0		
<b>Total Projects:</b>	<b>\$ 49,620.6</b>	<b>Total Funding:</b>	<b>\$ 49,620.6</b>

<b>Wastewater</b>			
Whitecap Wastewater Treatment Plant Odor Control, Process and Bulkhead Improvements	600.0	Revenue Bonds	20,782.4
City-Wide Wastewater Lift Station Alternate Power Supply	300.0	Pay as You Go	13,447.7
Whitecap Aeration & Clarifier Rehabilitation	500.0		
City-Wide Collection System IDIQ (SSOI)	1,000.0		
Laguna Shores Road Force Main Replacement	2,000.0		
Wastewater Treatment Plants & Lift Station SCADA Improvements	500.0		
Greenwood WWTP Flood Mitigation	500.0		
Greenwood Headworks & Grit Removal Rehabilitation	500.0		
Greenwood Aeration & Clarifier Rehabilitation	1,000.0		
Greenwood WWTP Electrical Improvements to UV System	2,500.0		
McBride Lift Station and Force Main	1,500.0		
Lift Station Repairs - Citywide	3,000.0		
TxDOT Wastewater Line Relocation	3,000.0		
Allison Plant Process Upgrade & Replacement	500.0		
Greenwood DAF Unit Rehab & Odor Control	500.0		
Greenwood Digester Replacement & Bio-Gas Upgrades	1,000.0		
New Broadway Wastewater Plant Rehabilitation	1,000.0		
Oso WRP Headworks & Lift Station	10,000.0		
Laguna Madre Plant Rehabilitation	500.0		
Whitecap Lift Station & Grit Removal Improvements	500.0		
Homeland Security Improvements			
Developer Utility Participation			
Street Utility Relocations	3,330.1		
<b>Total Projects:</b>	<b>34,230.1</b>	<b>Total Funding:</b>	<b>34,230.1</b>

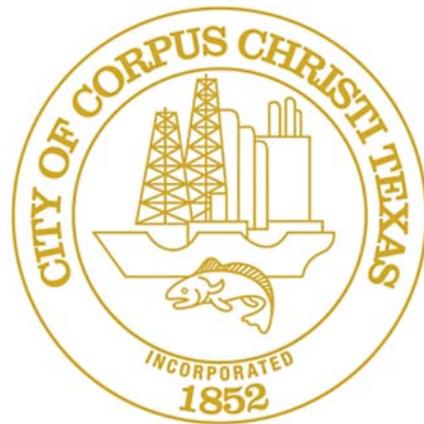
**TOTAL CAPITAL BUDGET: \$ 142,224.6**





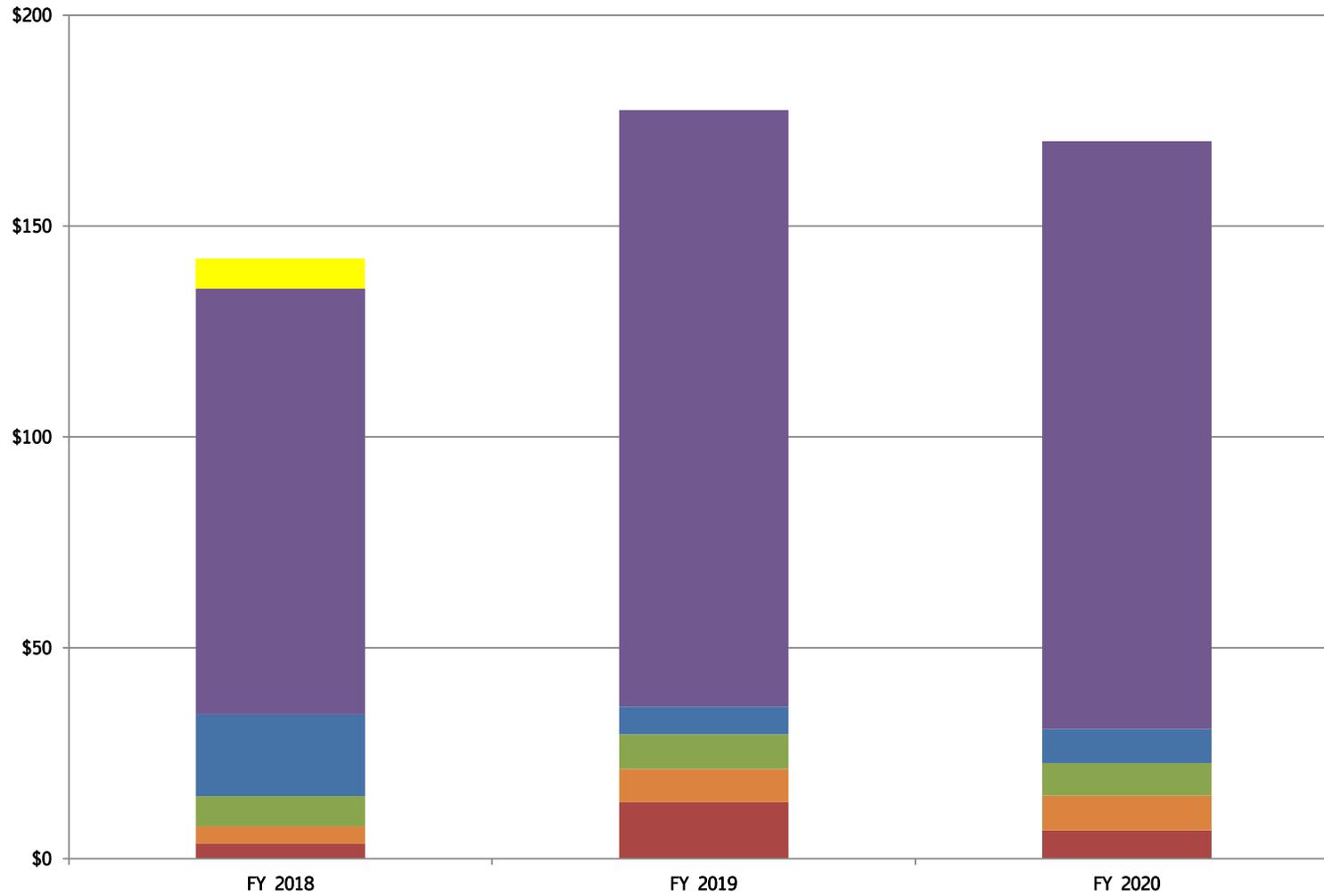
# CIP SUMMARIES

Obligation to the Future



# REVENUES BY TYPE (3 Years)

Millions



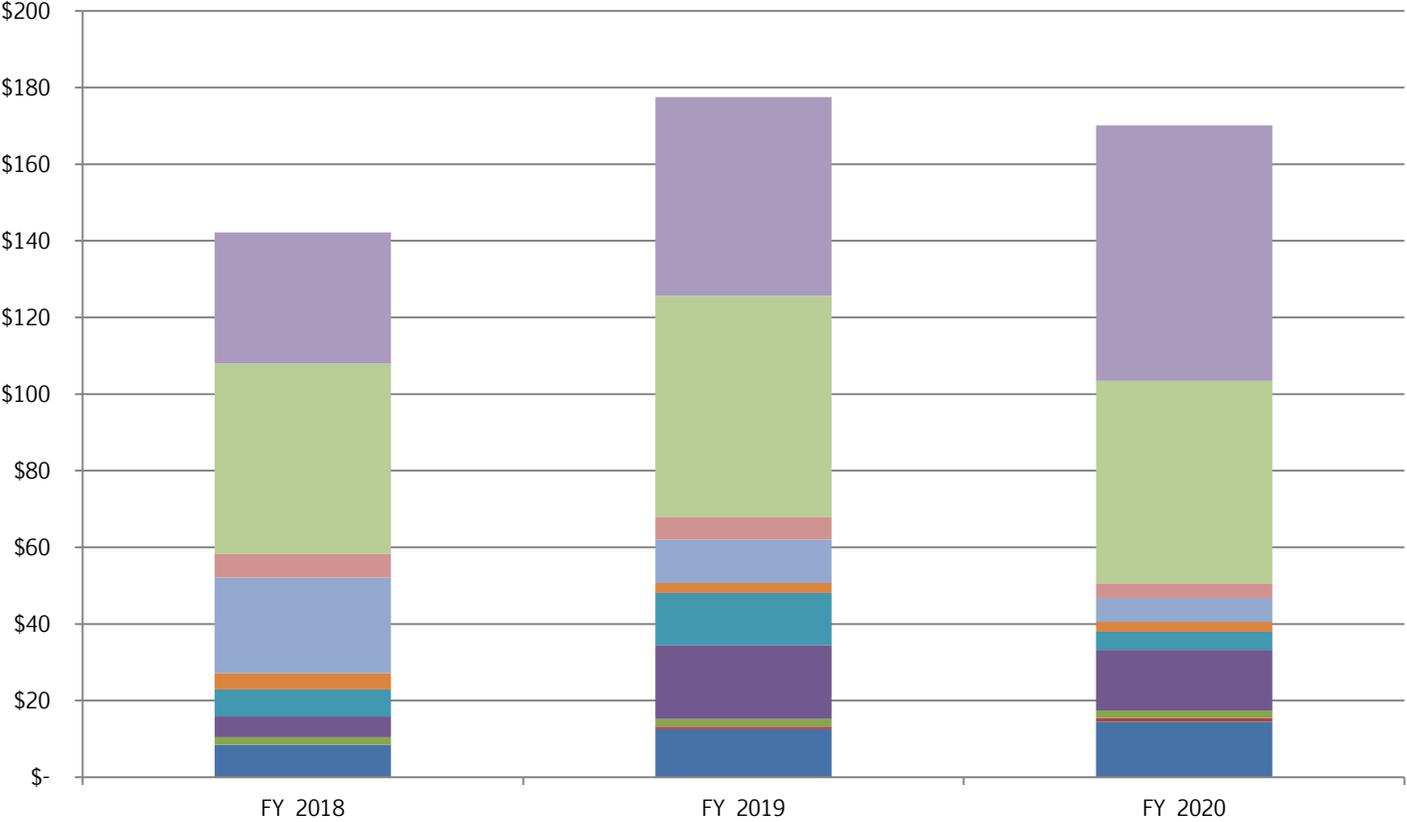
■ Certificates of Obligation 
 ■ Sales Tax Proceeds (4A) 
 ■ Grants (FEMA, CDBG, TPW, etc.) 
 ■ Other (TxDOT, TIF#2, Military Rev. Loan, etc.) 
 ■ Rev. Bonds 
 ■ G. O. Bonds

**SHORT-RANGE CIP SUMMARY**  
**Funding Sources by Revenue Type**  
(Amounts in 000's)

<b>Type</b>	Estimated Project-to- Date Funding Sources thru July '17	CIP Budget Year 1 2017-2018	Year 2 2018-2019	Year 3 2019-2020	Three Year Total
Future Certificates of Obligation		\$ 3,400.0	\$ 13,200.0	\$ 6,500.0	\$ 23,100.0
Certificates of Obligation	37,072.7	238.9	238.9	238.9	716.7
CIP Reserves	16,479.3	3,688.6	-	-	3,688.6
Utility Revenue Bonds	364,106.2	0.0	0.0	0.0	-
Bond Issue 2004 Proceeds	1,491.4	1,158.0	-	-	1,158.0
Grant / FAA	64,443.5	7,150.1	8,230.1	7,712.6	23,092.8
Other Funding	8,775.4	15,679.1	6,050.0	7,542.5	29,271.6
Nueces County Contribution	-	-	-	-	-
Tax Increment Financing District	1,658.6	0.0	510.0	510.0	1,020.0
Bond Issue 2016	22,250.0	-	-	-	-
Tax Notes	6,322.3	0.0	0.0	-	-
Texas Parks and Wildlife Department Grant		0.0	-	-	-
Texas General Land Office		0.0	-	-	-
Military Revolving Loan		-	-	-	-
Texas Water Development Board	8,241.0	-	-	-	-
Sales Tax Proceeds (4A)	4,637.9	4,050.0	7,800.0	8,200.0	20,050.0
Bond 2012	33,298.3	0.0	-	-	-
Bond Issue 2008 Proceeds	1,306.6	5,900.0	-	-	5,900.0
Bond 2014	82,517.9	-	-	-	-
Community Enrichment Fund	581.0	-	-	-	-
Texas Department of Transportation	3,294.0	-	-	-	-
Future Bond Issue	-	100,959.9	141,482.2	139,421.2	381,863.3
Regional Transportation Authority	-	-	-	-	-
	\$ 656,476.1	\$ 142,224.6	\$ 177,511.2	\$ 170,125.2	\$ 489,861.0

# PROGRAM EXPENDITURES (3 Years)

Millions



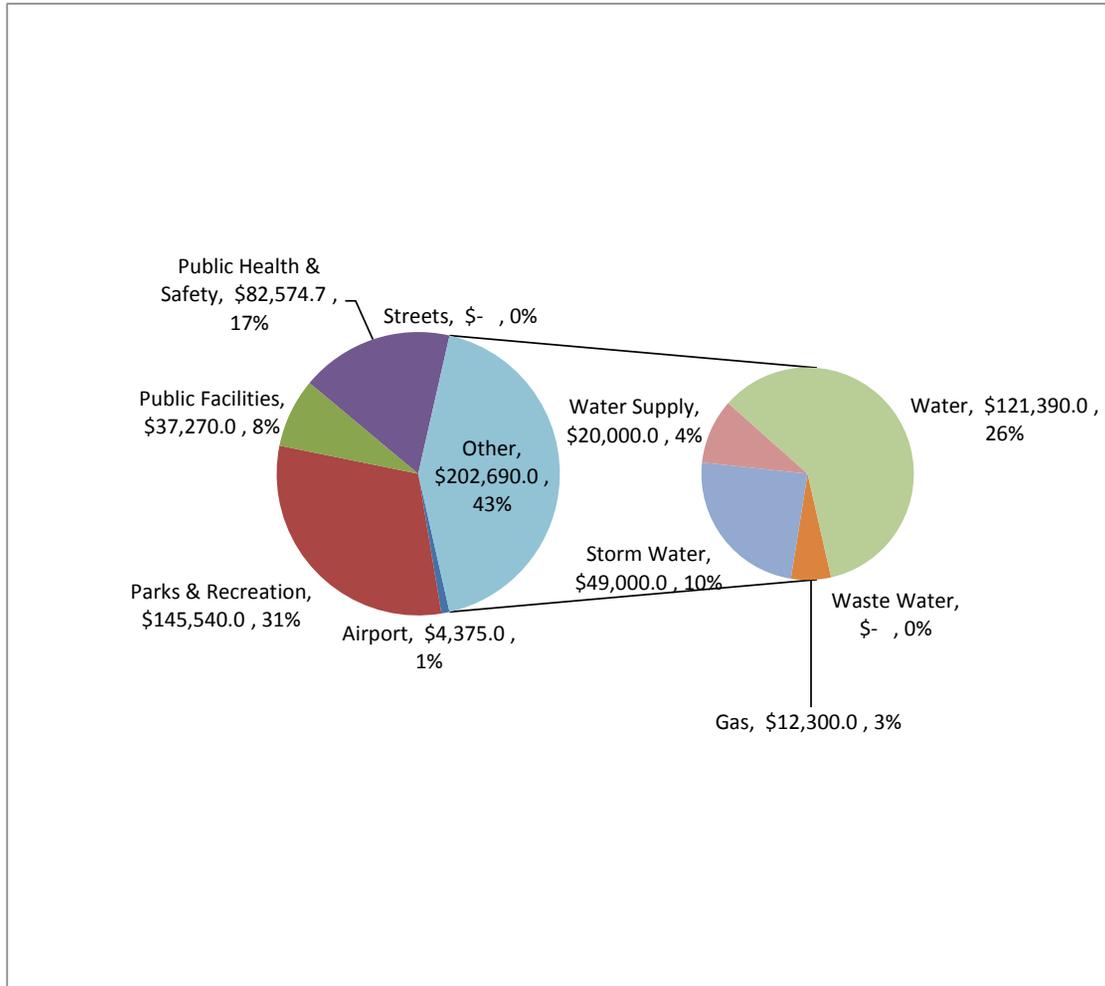
- Airport
- Parks & Recreation
- Public Facilities
- Public Health & Safety
- Streets
- Gas
- Storm Water
- Water Supply
- Water
- Waste Water

**SHORT-RANGE CIP SUMMARY**  
**Expenditures by Program/Project**  
(Amounts in 000's)

Program / Project	Project Budget as of March '17.	CIP Budget			Three Year Total
		Year 1 2017-2018	Year 2 2018-2019	Year 3 2019-2020	
<b>Airport</b>	\$ 71,537.44	\$ 8,444.00	\$ 12,519.00	\$ 14,494.00	\$ 35,457.00
<b>Parks &amp; Recreation</b>	20,817.4	-	705.0	965.0	1,670.0
<b>Public Facilities</b>					
Mechanical & fire Alarm Upgrades FY19			700.0		700.0
Mechanical & fire Alarm Upgrades FY20				375.0	375.0
Repairs to Senior Centers City Wide					-
Various Roof Replacements FY18	-	1,135.0			1,135.0
Various Roof Replacements FY19			1,050.0		1,050.0
Various Roof Replacements FY20				1,250.0	1,250.0
Repairs Recreations Centers - City Wide					-
Various Library Roofs	340.0	865.0	-	-	865.0
Public Facilities Special - FY19			250.0		250.0
Public Facilities Special - FY20				375.0	375.0
Comprehensive Facilities Improvements	2,052.8	-	-	-	-
<b>subtotal</b>	2,392.8	2,000.0	2,000.0	2,000.0	6,000.0
<b>Public Health &amp; Safety</b>					
Public Safety Projects	844.1		300.0	3,100.0	3,400.0
J.C. Elliot & Cefe Improvements	3,146.9	1,150.0	10,700.0	4,500.0	16,350.0
Sewall Capital Repairs	200.0	500.0	1,000.0	200.0	1,700.0
Barge Dock Improvements	1,163.1	500.0			500.0
Other	5,131.9	3,300.0	7,300.0	8,000.0	18,600.0
<b>subtotal</b>	10,486.0	5,450.0	19,300.0	15,800.0	40,550.0
<b>Streets (less Utility Support)</b>					
Street Improvements	196,497.8	38,890.6	13,558.6	4,723.1	57,172.3
ADA Specific Improvements	2,500.0				-
<b>subtotal (includes Utility Support)</b>	198,997.8	38,890.6	13,558.6	4,723.1	57,172.3
Less Utility Support		(31,832.6)			(31,832.6)
<b>subtotal</b>	198,997.8	7,058.0	13,558.6	4,723.1	25,339.7
<b>Utilities (with Street Utility Relocations)</b>					
Gas	4,816.9	4,201.0	2,600.0	2,600.0	9,401.0
Storm Water	33,438.5	24,920.9	11,287.2	6,225.0	42,433.1
Water Supply	176,459.1	6,300.0	6,000.0	3,800.0	16,100.0
Water	64,850.7	49,620.6	57,688.3	52,845.5	160,154.4
Waste Water	72,679.4	34,230.1	51,853.1	66,672.6	152,755.8
<b>subtotal</b>	352,244.6	119,272.6	129,428.6	132,143.1	380,844.3
<b>TOTAL:</b>	\$ 656,476.0	\$ 142,224.6	\$ 177,511.2	\$ 170,125.2	\$ 489,861.0

### Combined Summary Long-Range CIP by Program (Amounts in 000's)

Program	FY 2021 AND BEYOND	%
Airport	\$ 4,375.0	1%
Parks & Recreation	\$ 145,540.0	31%
Public Facilities	\$ 37,270.0	8%
Public Health & Safety	\$ 82,574.7	17%
Streets (utilities incl.)	N.A.V.	
Gas	\$ 12,300.0	3%
Storm Water	\$ 49,000.0	10%
Water Supply	\$ 20,000.0	4%
Water	\$ 121,390.0	26%
Waste Water	\$ -	0%
<b>TOTAL:</b>	<b>\$ 472,449.7</b>	<b>100%</b>



## **DESCRIPTION / EXPLANATION OF FUNDING SOURCES**

**CERTIFICATES OF OBLIGATION** - debt instruments secured by the taxing power of a city. They do not require voter authorization.

**COMMUNITY DEVELOPMENT BLOCK GRANT** - funds made available from the U.S. Department of Housing and Urban Development (HUD) to assist local governments in providing improvements for low to moderate income families in designated areas. Funding is received via annual allocation from HUD based on the City's Consolidated Annual Action Plan which is prepared annually pursuant to a separate Council-approved process.

**GENERAL OBLIGATION BONDS** – bonds requiring voter approval and are used to finance a variety of general improvement capital projects including streets, buildings and parks. These bonds are backed by the full faith and credit of the City.

**MILITARY REVOLVING LOAN** – proceeds received from a State of Texas loan program for projects to enhance the military value of NAS Corpus Christi.

**PADRE ISLAND TAX INCREMENT FINANCING DISTRICT** - financing method whereby tax revenue over a base amount, often referred to as an increment, is pledged by participating taxing entities to service debt issued in association with a specific project. The Padre Island Tax Increment Financing District will provide funding for the North Padre Island Storm Drainage Reduction and Environmental Restoration Project (Packery Channel).

**TYPE A BOARD PROCEEDS** – city sales tax proceeds dedicated to Economic Development, Arena, or Seawall. Each area collects 1/8<sup>th</sup> of a cent.

**RESERVES** – generally unused capital funds from a prior period and/or excess operating funds appropriated for capital projects.

## **DESCRIPTION / EXPLANATION OF FUNDING SOURCES**

(continued)

**PASSENGER FACILITY CHARGE (PFC)** - a \$4.50 per enplaned passenger fee that is authorized by the Federal Aviation Administration and assessed by the City of Corpus Christi. The PFC provides funding for major capital improvements such as the current Airport Terminal Reconstruction Project.

**REVENUE BONDS** - bonds payable from a specific source of revenue such as utilities which does not pledge the City's full faith and credit. Most of the City's outstanding revenue bonds have been issued to fund utility projects.

**STATE INFRASTRUCTURE BANK LOAN** - proceeds from a State of Texas low-interest loan program that were secured by the City of Corpus Christi to fund its share of construction costs associated with projects.

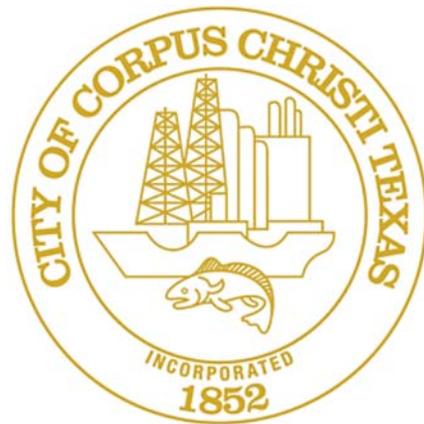
**STATE REVOLVING FUND LOAN** - proceeds received from a State of Texas program that provides funding for specific wastewater utility projects. SRF loans usually have more favorable terms and interest rates than conventional funding sources.

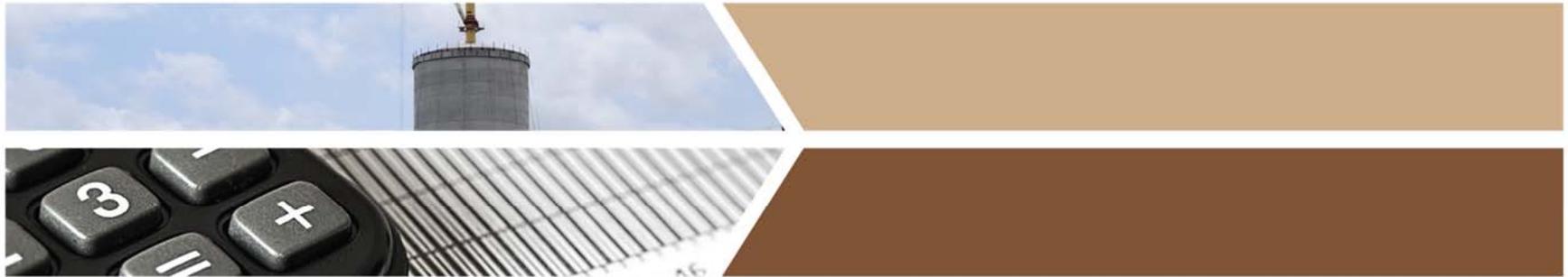
**STREET ASSESSMENT APPROPRIATIONS** - revenue derived from payments by private property owners who volunteer to be assessed for a portion of street improvements undertaken by the City as part of larger street improvements program.

**TRUST FUNDS** - funds which are established to account for all assets received by the City that are in the nature of a dedicated trust and not accounted for in other funds.

**LAWSUIT SETTLEMENT PROCEEDS** – generally includes operating funds being allocated toward court order capital projects.

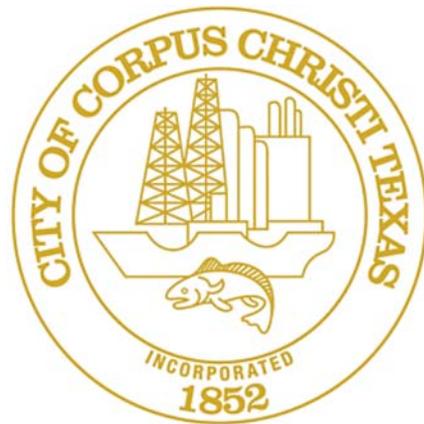
**REGIONAL TRANSPORTATION AUTHORITY (RTA)** – generally funded annually under an existing interlocal agreement, whereby the RTA provides funding primarily for street improvements.





# UTILITY RATES

Obligation to the Future

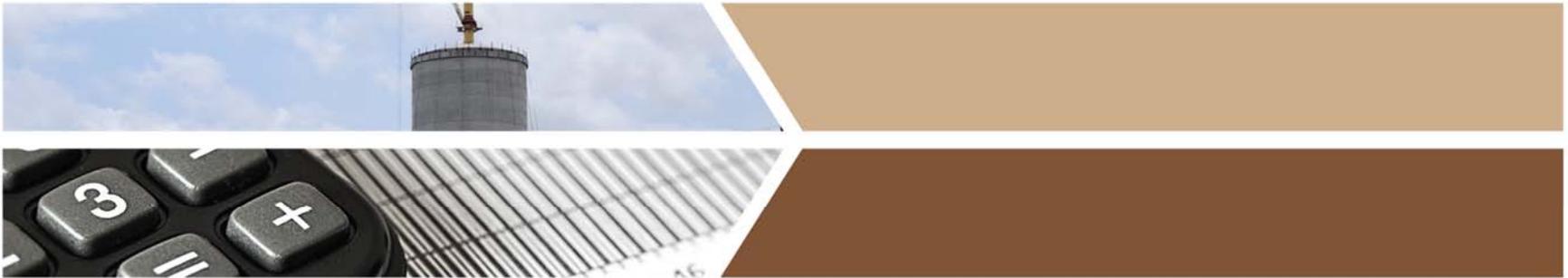


**2 Year Utility Rates by Utility**

	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>Average ICL Res Water Rate @ 3,000 gallons (Water rate per gallons on following page)</b>	\$20.19	\$22.03	\$22.03
<b>Average Wastewater Rate @ 3,000 gallons</b>	\$40.72	\$35.85	\$35.85
<b>Average Gas Rate @ 3,000 gallons</b>	\$17.46	\$17.46	\$17.46

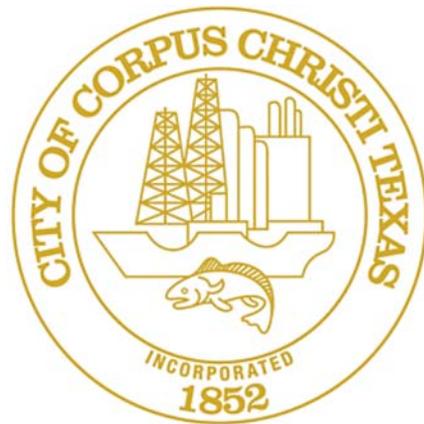
INSIDE-CITY  
Residential

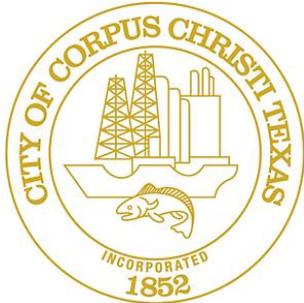
	WATER		
	2017	2018	2019
MIN	14.12	15.12	15.12
3,000 gals/mo	20.19	22.71	22.71
4,000 gals/mo	28.28	30.30	30.30
5,000 gals/mo	35.31	37.89	37.89
6,000 gals/mo	42.37	45.47	45.47
10,000 gals/mo	74.26	79.62	79.62
12,000 gals/mo	90.20	96.69	96.69
15,000 gals/mo	114.12	122.31	122.31
20,000 gals/mo	157.03	168.24	168.24



# AIRPORT

Obligation to the Future





# CITY OF CORPUS CHRISTI AIRPORT PROGRAM

Capital improvements for Corpus Christi International Airport (CCIA) are primarily developed in accordance with the 2005 Airport Master Plan and the Federal Aviation Administration (FAA) grant funding process. The Master Plan establishes a program for the improvement of existing facilities and the development of additional facilities over the next twenty (20) years. In addition, the FAA establishes the grant project funding criteria based on type and overall nation-wide priorities. The Plan outlines projects for development of the Airport and ensures available assets will meet projected needs and customer demands. In accordance with the Plan, the Fiscal Year 2017–2018 Airport Capital Improvement program reflects a comprehensive evaluation of Airport needs, resulting in a clear and realistic plan for current and future growth. Planned projects support City Council goals of enhanced economic development and providing access to aeronautical services for the Coastal South Texas Region.

The Proposed FY 2017-18 Airport Capital Improvement Program is highlighted by the anticipated completion of the Air Operations Area (AOA) Perimeter Fence Project. The project replaces approximately nine (9) miles of existing 6' CCIA perimeter fence with an 8' fence and a concrete apron under the fence to prevent wildlife intrusion. Also on-going phasing of the rehabilitation of the East General Aviation Apron Plan will continue. Although approved and funded in FY 2016-17, one of three Aircraft Rescue Fire Fighting (ARFF) trucks will be built and delivered in April, 2018.

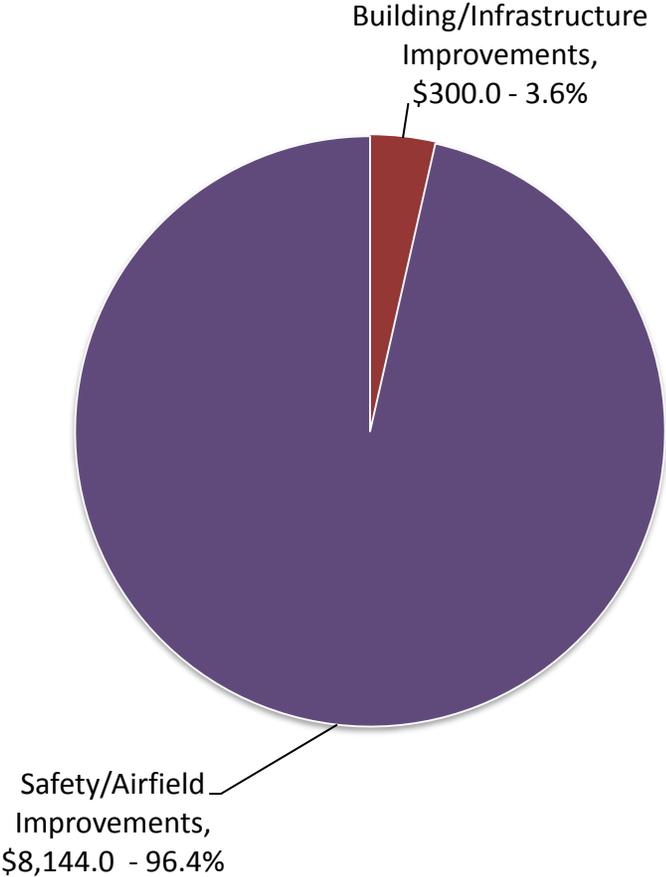
Years 2 and 3 of the Airport Short-Range Capital Improvement Plan include projects that improve airport pavement infrastructure. The East General Aviation Apron rehabilitation will continue as well as the reconstruction of the current air carrier ramp. Also proposed are parking lot improvements, construction of a fuel farm for General Aviation (GA) customers, rehabilitation of select terminal areas and replacement of an additional Aircraft Rescue Fire Fighting (ARFF) vehicle. Airport staff continues negotiations for several business development options including the construction and operation of general aviation hangars and other revenue generating ventures.

Long-range improvements reflect infrastructure maintenance and rehabilitation as required by existing conditions. Several revenue-generating projects are planned to make the airport a superior facility for traveler convenience and comfort. Timelines for capital improvement projects are subject to Federal Aviation Administration entitlement grant levels and discretionary funding.

A recap of the budgeted expenditures includes:

	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018 – 2019</b>	<b>YEAR THREE 2019 - 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 8,444,000</b>	<b>\$ 12,519,000</b>	<b>\$ 14,494,000</b>
<b>FUNDING:</b>			
<b>Certificates of Obligation (Issued)</b>	<b>\$ 238,900</b>	<b>\$ 238,900</b>	<b>\$ 238,900</b>
<b>Airport Fund Reserve</b>	<b>\$ 1,055,000</b>	<b>\$ 3,975,000</b>	<b>\$ 5,792,500</b>
<b>FAA Grant</b>	<b>\$ 7,150,100</b>	<b>\$ 8,230,100</b>	<b>\$ 7,712,600</b>
<b>Customer Facility Charge</b>	<b>\$ 0</b>	<b>\$ 75,000</b>	<b>\$ 750,000</b>
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 8,444,000</b>	<b>\$ 12,519,000</b>	<b>\$ 14,494,000</b>

**Airport**  
**Annual CIP: \$8,444.0**  
**(Amounts in 000's)**



**AIRPORT  
Short Range CIP**

Seq #	Project Name	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
AV01	<b>East General Aviation (GA) Apron Extension</b> Finance and Engineering Number: E12156B	2,826.9	506.4				
AV02	<b>Runway 17-35 Safety Mitigation</b> Finance and Engineering Number: E11046	17,128.9	2,018.4				
AV03	<b>Taxiway Reconfiguration</b> Finance and Engineering Number: E11048	10,328.8					
AV04	<b>Runway 13-31 Extension Safety Mitigation</b> Finance and Engineering Number: E11047	21,326.8	5,394.6				
AV05	<b>Aircraft Rescue Fire Fighting (Rescue 2) Equipment</b> Finance Number: TBD	861.0					
AV06	<b>Rehabilitate East General Aviation (EGA) Apron</b> Finance and Engineering Number: E12156 & E15234	3,927.0		<b>2,389.0</b>	2,389.0	2,389.0	<b>7,167.0</b>
AV07	<b>CCIA Air Operations Area (AOA) Perimeter Fence Replacement</b> Finance and Engineering Number: E15221	7,013.6					
AV08	<b>Reconstruct Air Carrier Ramp</b> Finance and Engineering Number: E15233	205.0		<b>5,555.0</b>	5,555.0	5,555.0	<b>16,665.0</b>
AV09	<b>Terminal Building Assessment/Rehabilitation</b> Finance and Engineering Number: TBD			<b>300.0</b>	2,500.0	2,300.0	<b>5,100.0</b>
AV10	<b>Reconstruction of Glasson Road &amp; Pinson Road</b> Finance and Engineering Number: TBD			<b>200.0</b>	200.0	100.0	<b>500.0</b>
AV11	<b>Parking Lot Improvements</b> Finance and Engineering Number: TBD				400.0	1,775.0	<b>2,175.0</b>
AV12	<b>Car Rental Ready Return Parking Lot</b> Finance and Engineering Number: TDB				75.0	750.0	<b>825.0</b>
AV13	<b>CCIA Pavement Assessment</b> Finance and Engineering Number: TDB				200.0		<b>200.0</b>

**AIRPORT  
Short Range CIP**

Seq #	Project Name	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
AV14	<b>Airport Layout Plan</b> Finance and Engineering Number: TBD				400.0		<b>400.0</b>
AV15	<b>Aircraft Rescue Fire Fighting (Rescue 1) Equipment</b> Finance and Engineering Number: TBD				800.0		<b>800.0</b>
AV16	<b>Airport Master Plan</b> Finance and Engineering Number: TBD					625.0	<b>625.0</b>
AV17	<b>Airport Land Acquisition</b> Finance and Engineering Number: TBD					500.0	<b>500.0</b>
AV18	<b>Airport Fuel Farm</b> Finance and Engineering Number: TBD					500.0	<b>500.0</b>

	<b>Program Total:</b>	<b>63,618.0</b>	<b>7,919.4</b>	<b>8,444.0</b>	<b>12,519.0</b>	<b>14,494.0</b>	<b>35,457.0</b>
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<b>CURRENTLY AVAILABLE FUNDING:</b>							
	Certificates of Obligation	5,503.4	622.5	238.9	238.9	238.9	<b>716.7</b>
	Airport Fund Reserves	858.4	169.6	1,055.0	3,975.0	5,792.5	<b>10,822.5</b>
	FAA Grants	57,256.2	7,127.3	7,150.1	8,230.1	7,712.6	<b>23,092.8</b>
	Customer Facility Charge (CFC)				75.0	750.0	<b>825.0</b>

	<b>Total Currently Available:</b>	<b>63,618.0</b>	<b>7,919.4</b>	<b>8,444.0</b>	<b>12,519.0</b>	<b>14,494.0</b>	<b>35,457.0</b>
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## PROJECT DESCRIPTION

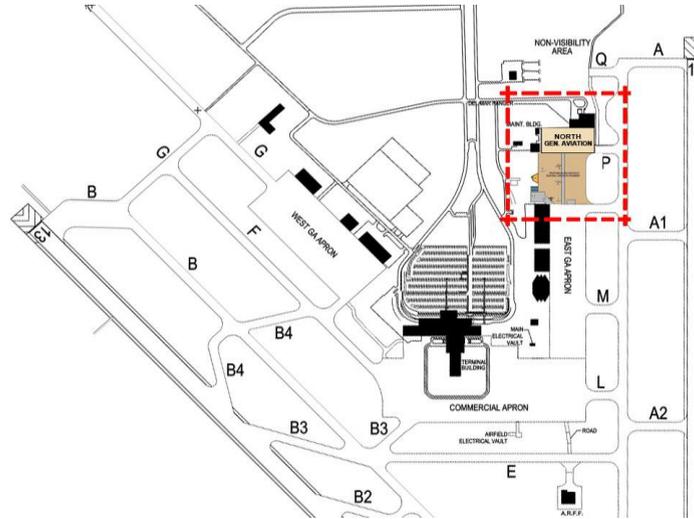
Department: Aviation

AV01

### PROJECT TITLE: East General Aviation (GA) Apron Extension

**DESCRIPTION:**

This project will extend from North Apron south to East GA Apron. It will include placement of reinforced concrete, aircraft tie-downs, striping, upgrade of apron lighting. The apron is essential for maintaining service to General Aviation. This will include construction of new wash-rack and installation of oil and water separator.



**PROJECT NOTES:**

Engineering Project No: E12156B  
 Finance Project No.: G50E12156B  
 A/E Consultant: KSA Engineers  
 Contractor: Bay Ltd.  
 Award Design: January 2013  
 Award Construction: July 2014  
 Anticipated Completion: December 2017

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	191.3						191,300
Design/Build Construction	2,285.1	506.4					2,791,500
Contingency							
Inspection/Other	350.5						350,500
<b>TOTAL:</b>	<b>2,826.9</b>	<b>506.4</b>					<b>\$ 3,333,300</b>
Source of Funds							
Certificates of Obligation	282.7	50.7					333,390
Airport Fund Reserves							
FAA Grant	2,544.2	455.7					2,999,910
<b>TOTAL:</b>	<b>2,826.9</b>	<b>506.4</b>					<b>\$ 3,333,300</b>

**OPERATIONAL IMPACT:**

There is no projected operational impact with this project. Existing area improvements only. The space footprint is not increasing in size.

**PROJECT DESCRIPTION**

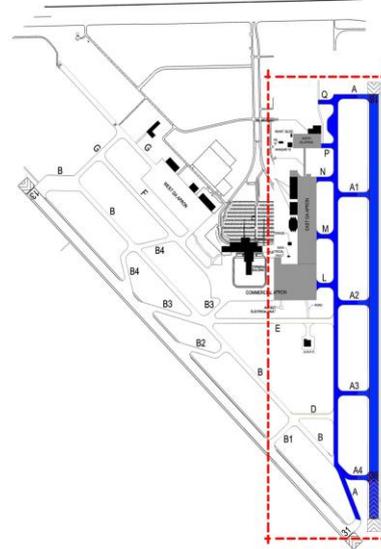
Department: Aviation

AV02

**PROJECT TITLE: Runway 17-35 Safety Mitigation**

**DESCRIPTION:**

This project will shift Runway 17-35 by 600 feet north, displace threshold of Runway 35 by 600 feet north and reconfigure connecting taxiways accessing Runway 17-35 from Taxiway Alpha and terminal apron parking. Project includes relocation of navigational aids, lighting and signage. Existing surfaces of Runways 17-35 will be rehabilitated via cold - tar application and marked accordingly. This project includes Environmental Assessment, Airport Geographical Information System, Topo Survey, Land Acquisition/Navigational Easement, Preliminary Design Reimbursable Agreement and Federal Aviation Administration - Memorandum of Agreement.



**PROJECT NOTES:**

Engineering Project No: E11046  
 Finance Project No.: G47E11046  
 G49E11046, G49E11046A, G49E11046B, G49E15222  
 A/E Consultant: KSA Engineers  
 Contractor: Bay Ltd.  
 Award Design: May 2011  
 Award Construction: October 2012  
 Anticipated Completion: December 2017

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	1,019.4	106.0					1,125,400
Design/Build Construction	14,618.6	1,833.4					16,452,000
Contingency							
Inspection/Other	1,490.9	79.0					1,569,900
<b>TOTAL:</b>	<b>17,128.9</b>	<b>2,018.4</b>					<b>\$ 19,147,300</b>
Source of Funds							
Certificates of Obligation	1,662.4	32.3					1,694,700
Airport Fund Reserves	50.5	169.6					220,090
FAA Grant	15,416.0	1,816.5					17,232,510
<b>TOTAL:</b>	<b>17,128.9</b>	<b>2,018.4</b>					<b>\$ 19,147,300</b>

**OPERATIONAL IMPACT:**

Projected operational impact of additional \$10,000 for additional runway maintenance [sweeping, rubber removal, painting].

## PROJECT DESCRIPTION

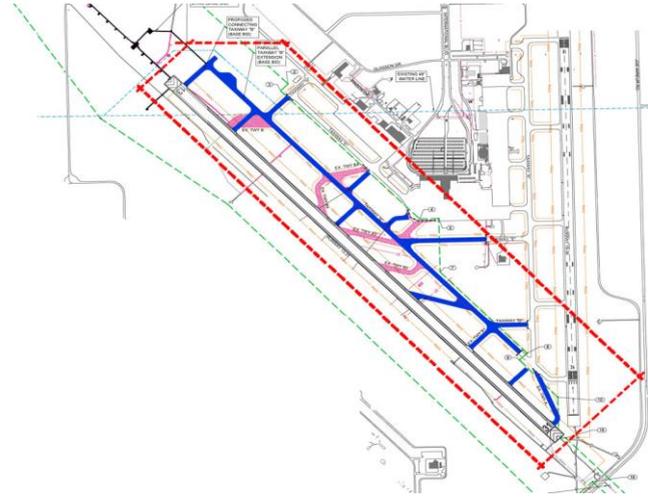
Department: Aviation

AV03

### PROJECT TITLE: Taxiway Reconfiguration

**DESCRIPTION:**

In 2012, a Taxiway Utilization Study was conducted to evaluate operational effects of Taxiing, nesting of taxiway intersections and queuing of aircraft on the Taxiway Movement Areas. The study addressed safety of operations on airfield. Taxiway access to either Runways will optimize aircrafts' alignment to runway at 90 degrees. A new Taxiway numbering scheme will provide better situational awareness, reduce confusion, and assurance to air traffic controller of exact aircraft location. This project will consist of new taxiway pavement with fillets, transitions and paved shoulders, removal of pavement, drainage, grading, LED lighting, Coal-Tar Seal, Signage and Markings. Due to the complexity and magnitude of taxiway system, this project will be constructed in phases.



**PROJECT NOTES:**

Engineering Project No: E11048  
 Finance Project No.: G47E11048  
 G51E11048, G52E11048, G50E11048  
 A/E Consultant: KSA Engineers  
 Contractor: Bay Ltd  
 Award Design: November 2014  
 Award Construction: July 2014  
 Anticipated Completion: December 2017

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	210.0						210,000
Design/Build Construction	8,537.2						8,537,200
Contingency							
Inspection/Other	1,581.6						1,581,600
<b>TOTAL:</b>	<b>10,328.8</b>						<b>\$ 10,328,800</b>
<b>Source of Funds</b>							
Certificates of Obligation	1,032.9						1,032,880
Airport Fund Reserves							
FAA Grant	9,295.9						9,295,920
<b>TOTAL:</b>	<b>10,328.8</b>						<b>\$ 10,328,800</b>

**OPERATIONAL IMPACT:**

Anticipated operational savings from installation of LED Lighting (Will quantify after 1st year of operations.)

**PROJECT DESCRIPTION**

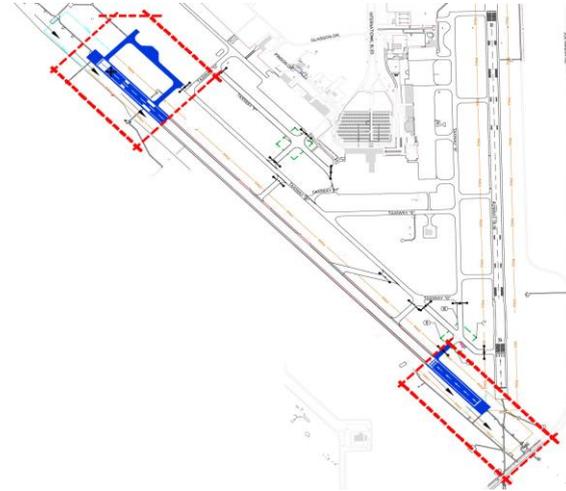
Department: Aviation

AV04

**PROJECT TITLE: Runway 13-31 Extension Safety Mitigation**

**DESCRIPTION:**

This project consists of extending Runway 13 by 1,000 ft north, displacing Runway 31 by 1,000 ft and associated new connecting taxiways; reconfigure connecting taxiways accessing Runway 13-31 from Taxiway Bravo and terminal apron parking. Project includes relocation of all navigational aids, run up area, removal of older section of pavement, construct new Taxiway, runway lighting, LED lighting on Taxiways and signage. Existing surface of Runway 13-31 will be rehabilitated via cold-tar application and marked accordingly. This project includes an Environmental Assessment, Airport Geographical Information System, Topo Survey, Land Acquisition/Navigational Easement, Preliminary Desire Reimbursable Agreement and Federal Aviation Administration - Memorandum of Agreement.



**PROJECT NOTES:**

Engineering Project No: E11047  
 Finance Project No.: G47E11047  
 G50E11047, G51E11047, G52E11047  
 A/E Consultant: KSA Engineering  
 Contractor: Bay Ltd.  
 Award Design: May 2011  
 Award Construction: October 2012  
 Anticipated Completion: December 2017

**FUNDING SCHEDULE (Amounts in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations February 2017</b>	<b>Unspent Prior Budget as of March 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	1,291.3						1,291,300
Design/Build Construction	18,998.2	4,957.5					23,955,700
Contingency							
Inspection/Other	1,037.3	437.1					1,474,400
<b>TOTAL:</b>	<b>21,326.8</b>	<b>5,394.6</b>					<b>\$ 26,721,400</b>

<b>Source of Funds</b>							
Certificates of Obligation	2,132.7	539.5					2,672,140
Airport Fund Reserves							
FAA Grant	19,194.1	4,855.1					24,049,260
<b>TOTAL:</b>	<b>21,326.8</b>	<b>5,394.6</b>					<b>\$ 26,721,400</b>

**OPERATIONAL IMPACT:**

Projected operational impact of additional \$10,000 for additional runway maintenance.

**PROJECT DESCRIPTION**

Department: Aviation

AV05

**PROJECT TITLE: Aircraft Recue Fire Fighting (Rescue 2) Equipment**

**DESCRIPTION:**

A new Aircraft Rescue Firefighting (ARFF) Vehicle will replace Aircraft Rescue Firefighting (ARFF) Model T1500 Vehicle purchased in 1995. (>20years). Water tank capacity in new ARFF Vehicle is 1,500 gallons, foam tank capacity is 205 gallons and dry chemical system is 700 lbs. Replacement of this vehicle is essential for CCIA to maintain its current index for Aircraft Rescue and Firefighting Response capability.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other	861.0						861,000
<b>TOTAL:</b>	861.0						<b>\$ 861,000</b>

Source of Funds							
Certificates of Obligation Airport Fund Reserves FAA Grant	86.1 774.9						86,100 774,900
<b>TOTAL:</b>	861.0						<b>\$ 861,000</b>

**OPERATIONAL IMPACT:**

Reduction of \$5,000 in maintenance/repairs to vehicle.

## PROJECT DESCRIPTION

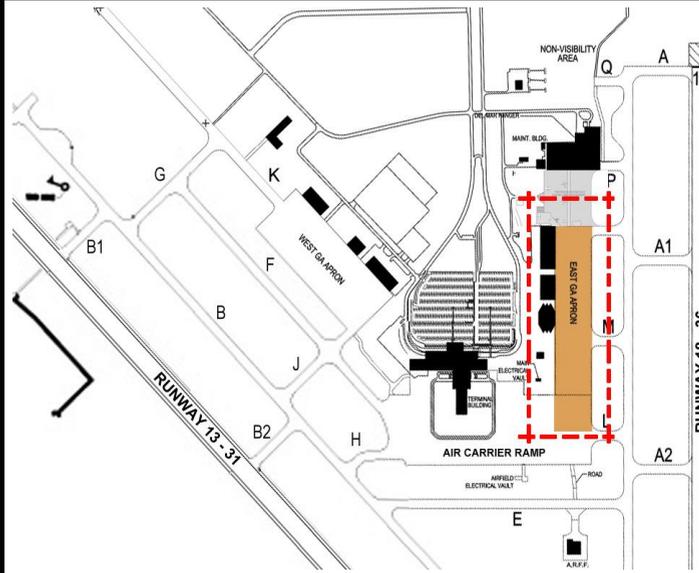
Department: Aviation

AV06

### PROJECT TITLE: Rehabilitate East General Aviation Apron

**DESCRIPTION:**

Reconstruct East GA Apron to include removal of existing asphalt pavement and replace with reinforced concrete, aircraft tie-downs, striping and upgrades to apron lighting. Existing apron has shown signs of deterioration and base failures and needs replacement. East and North aprons serve Signature Flight Support Fixed Based Operator (East FBO) and are essential for maintaining service to GA Aircraft. Project will be phased accordingly within funding availability,



**PROJECT NOTES:**

Engineering Project No: E12156, E15234  
 Finance Project No.: G50E12156  
 G53E15234  
 A/E Consultant: KSA Engineers  
 Contractor: SpawGlass Civil Construction, Inc.  
 Award Design: January 2013  
 Award Construction: October 2016  
 Anticipated Completion: November 2017

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	372.0		110.0	110.0	110.0		702,000
Design/Build Construction	3,282.0		2,104.0	2,104.0	2,104.0		9,594,000
Contingency							
Inspection/Other	273.0		175.0	175.0	175.0		798,000
<b>TOTAL:</b>	3,927.0		2,389.0	2,389.0	2,389.0		<b>\$ 11,094,000</b>
<b>Source of Funds</b>							
Certificates of Obligation	392.7		238.9	238.9	238.9		1,109,400
Airport Fund Reserves							
FAA Grant	3,534.3		2,150.1	2,150.1	2,150.1		9,984,600
<b>TOTAL:</b>	3,927.0		2,389.0	2,389.0	2,389.0		<b>\$ 11,094,000</b>

**OPERATIONAL IMPACT:**

There is no projected operational impact with this project due to existing area improvements only. The space footprint is not increasing in size.

**PROJECT DESCRIPTION**

Department: Aviation

AV07

**PROJECT TITLE: CCIA Air Operations Area Perimeter Fence Replacement**

**DESCRIPTION:**

Project will design and replace approximately nine (9) miles of existing 6' airfield perimeter fence with 8' fence and install concrete apron under fence.

Existing fence is showing signs of environmental damage (rust and broken barbed wire strands); fence has been cut in several places by attempted intruders and hit by vehicles in various locations around perimeter.

Installation of concrete apron under fence will serve to control wildlife intrusions by providing barrier they cannot dig under. It will deter human intrusion attempts by making it more difficult to penetrate under fence and will aid in maintaining fence line zones by discouraging plant growth in fabric.



**PROJECT NOTES:**

Engineering Project No: E15221  
 Finance Project No.: G54E15221  
 A/E Consultant: Garver USA  
 Contractor: Beecroft Construction  
 Award Design: June 2016  
 Award Construction: November 2016  
 Anticipated Completion: November 2017

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	333.6						333,600
Design/Build Construction	6,406.6						6,406,600
Contingency							
Inspection/Other	273.4						273,400
<b>TOTAL:</b>	<b>7,013.6</b>						<b>\$ 7,013,600</b>
<b>Source of Funds</b>							
Certificates of Obligation							
Airport Fund Reserves	701.4						701,360
FAA Grant	6,312.2						6,312,240
<b>TOTAL:</b>	<b>7,013.6</b>						<b>\$ 7,013,600</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

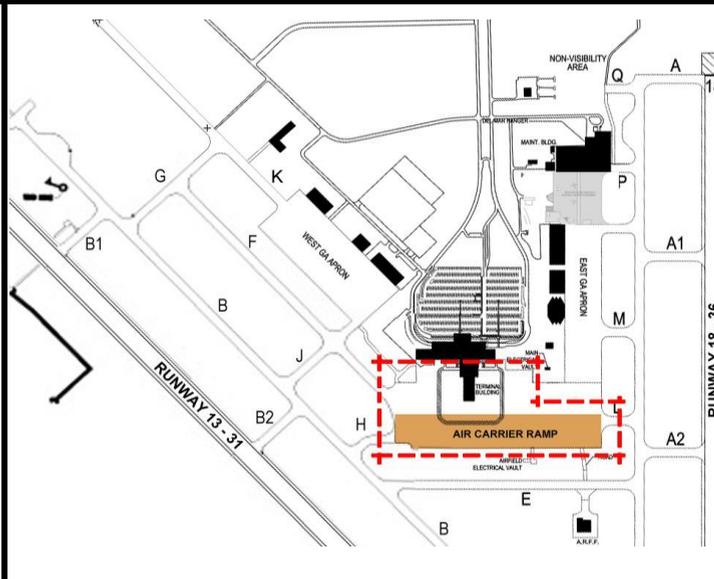
Department:

AV08

**PROJECT TITLE: Reconstruction Air Carrier Ramp**

**DESCRIPTION:**

Air Carrier Apron area consists of approximately 45,000 square yards cement and 44,000 square yards asphaltic concrete. Project will include pavement assessment and removal of existing asphaltic pavement and replace with reinforced concrete and rehabilitate areas of base failure. Asphaltic pavement is showing signs of distress with minor longitudinal/transverse cracking and some rutting and deterioration from oxidation and normal wear. Rehabilitating pavement will correct current deficiencies and insure full operational capabilities.



**PROJECT NOTES:**

Engineering Project No: E15234  
 Finance Project No.: E15234  
 A/E Consultant: Garver USA  
 Contractor: TBD  
 Award Design: December 2016  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	205.0		5,555.0				5,760,000
Design/Build Construction				5,555.0	5,555.0		11,110,000
Contingency							
Inspection/Other							
<b>TOTAL:</b>	205.0		5,555.0	5,555.0	5,555.0		<b>\$ 16,870,000</b>

Source of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Certificates of Obligation							
Airport Fund Reserves	20.5		555.0	555.0	555.0		1,685,500
FAA Grant	184.5		5,000.0	5,000.0	5,000.0		15,184,500
<b>TOTAL:</b>	205.0		5,555.0	5,555.0	5,555.0		<b>\$ 16,870,000</b>

**OPERATIONAL IMPACT:**

## PROJECT DESCRIPTION

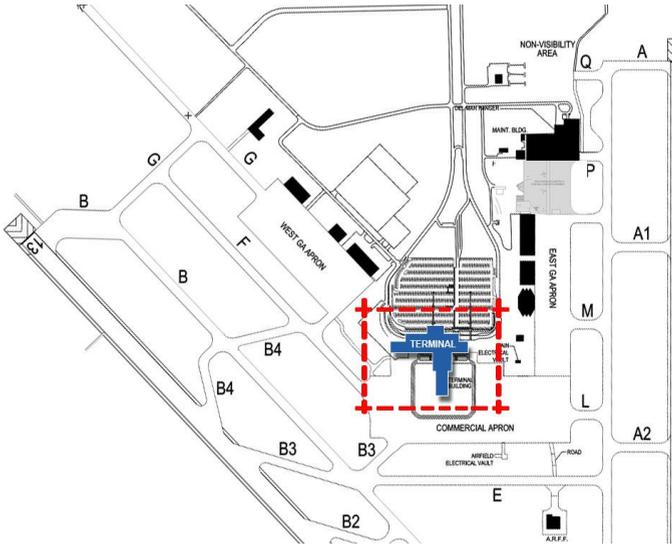
Department: Aviation

AV09

### PROJECT TITLE: Terminal Building Assessment/Rehabilitation

**DESCRIPTION:**

Terminal Assessment will include west-end portion of terminal that was constructed in 1985 and not incorporated in 2000 Terminal Expansion. Assessment will include all Mechanical, Electrical, and Roof system infrastructure, compliance with ADA, current building, and life safety codes including an ADA Ramp/Lift to accommodate a 757 aircraft. Project includes upgrades to Fire Alarm Systems, energy management system, lighting control and incorporation of a new PA system.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
  
 A/E Consultant: TBD  
 Contractor: TBD  
  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			300.0	2,500.0			2,800,000
Design/Build Construction					2,300.0	4,600.0	6,900,000
Contingency							
Inspection/Other							
<b>TOTAL:</b>			<b>300.0</b>	<b>2,500.0</b>	<b>2,300.0</b>	<b>4,600.0</b>	<b>\$ 9,700,000</b>

Source of Funds							
Certificates of Obligation							
Airport Fund Reserves			300.0	2,500.0	2,300.0	4,600.0	9,700,000
FAA Grant							
<b>TOTAL:</b>			<b>300.0</b>	<b>2,500.0</b>	<b>2,300.0</b>	<b>4,600.0</b>	<b>\$ 9,700,000</b>

**OPERATIONAL IMPACT:**

## PROJECT DESCRIPTION

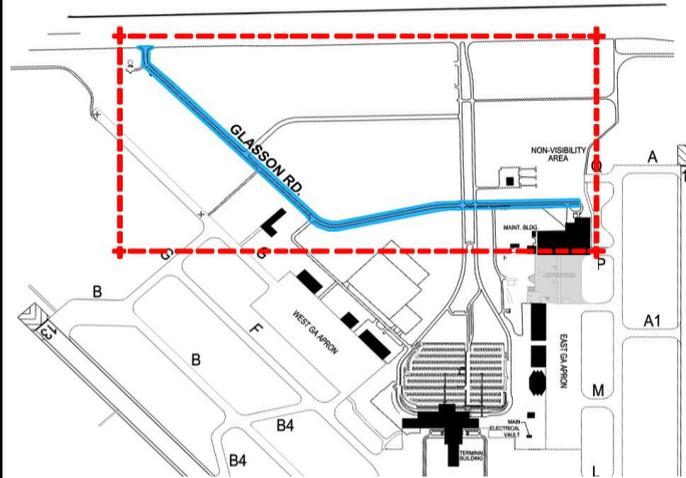
Department: Aviation

AV10

### PROJECT TITLE: Reconstruction of Glasson Road & Pinson Road

**DESCRIPTION:**

Three roads connect with International Drive. Glasson Road serves as an alternate route to tenants, cargo deliveries and employees located on the western & eastern sides of the Airport. The project will include reconstructing this unimproved road and improving drainage.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
  
 A/E Consultant: TBD  
 Contractor: TBD  
  
 Award Design: TBD  
  
 Award Construction: TBD  
  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			200.0	200.0	100.0		500,000
Design/Build Construction							
Contingency							
Inspection/Other							
<b>TOTAL:</b>			<b>200.0</b>	<b>200.0</b>	<b>100.0</b>		<b>\$ 500,000</b>
<b>Source of Funds</b>							
Certificates of Obligation			200.0	200.0	100.0		500,000
Airport Fund Reserves							
FAA Grant							
<b>TOTAL:</b>			<b>200.0</b>	<b>200.0</b>	<b>100.0</b>		<b>\$ 500,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

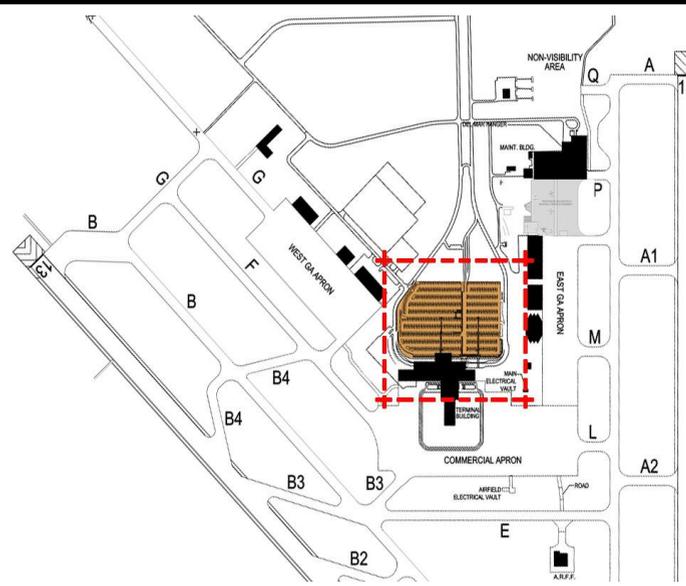
Department: Aviation

AV11

**PROJECT TITLE: Parking Lot Improvements**

**DESCRIPTION:**

Importance of maximizing customer convenience continues to be central to design process of the airport. An important component of customer convenience is need to provide shade and weather protection for pedestrians. This project will increase the number of covered parking spaces by two rows of covered parking (approx. 129 Spaces) Other improvements include coal tar sealant, striping, landscaping, signage and installation of replacement lighting. Project proposes to generate additional revenue and meet customer demand for additional covered parking spaces. Also proposed is relocation of current Rental Return Lot located near East Ramp. New Rental Car Lot would be moved to east side of current Short Term Parking Lot. Existing Long Term Lot would be expanded to north of existing Long Term Parking Lot to increase capacity.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				50.0			50,000
Design/Build Construction				350.0	1,775.0		2,125,000
Contingency							
Inspection/Other							
<b>TOTAL:</b>				400.0	1,775.0		<b>\$ 2,175,000</b>
<b>Source of Funds</b>							
Certificates of Obligation							
Airport Fund Reserves				400.0	1,775.0		2,175,000
<b>TOTAL:</b>				400.0	1,775.0		<b>\$ 2,175,000</b>

**OPERATIONAL IMPACT:**

This project will generate approximately \$150,000 in additional revenue for Corpus Christi International Airport and meets customer demand for premium covered parking. Anticipated funding to come from operating funds and CIP reserves.

**PROJECT DESCRIPTION**

Department: Aviation

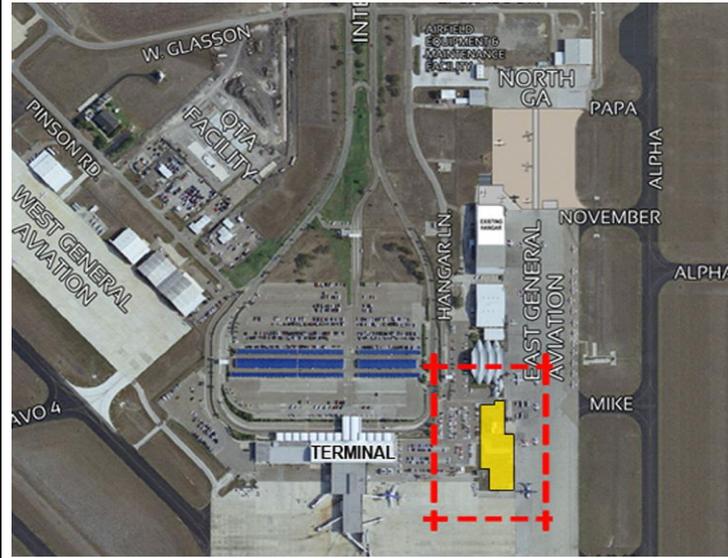
AV12

**PROJECT TITLE: Car Rental Ready Return Parking Lot**

**DESCRIPTION:**

Project will increase number of vehicle parking spaces available to patrons renting vehicles at our facility. Other improvements include coal tar sealant, striping, landscaping, signage and replace incandescent lighting with LED lighting.

Parking lot lighting will provide superior illumination offering increased safety and security as brighter, whiter light makes it easier to see at night with better contrast. LED fixtures offer directional control and minimize light migration outside targeted light footprint and reduce energy consumption.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

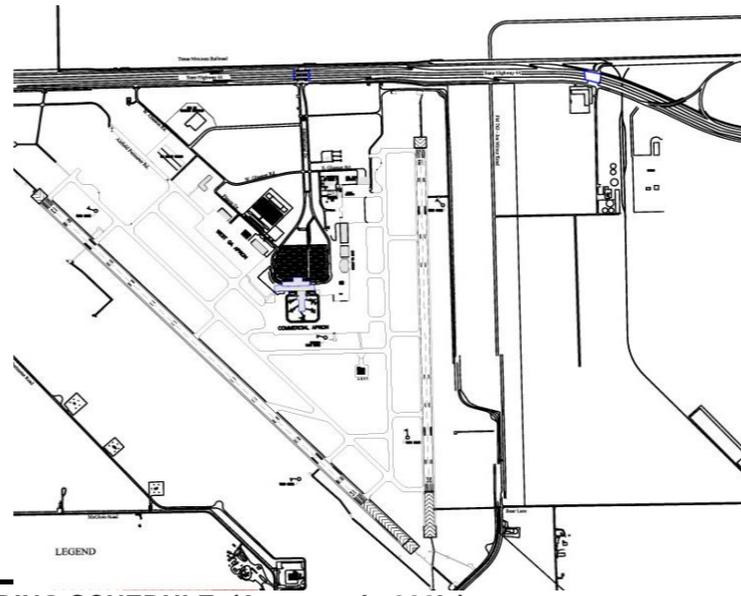
<b>Use of Funds</b>	<b>Project-to-Date Obligations February 2017</b>	<b>Unspent Prior Budget as of March 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering				75.0			75,000
Design/Build Construction					750.0		750,000
Contingency							
Inspection/Other							
<b>TOTAL:</b>				75.0	750.0		<b>\$ 825,000</b>
<b>Source of Funds</b>							
Certificates of Obligation							
Airport Fund Reserves							
Customer Facility Charge (CFC)				75.0	750.0		825,000
<b>TOTAL:</b>				75.0	750.0		<b>\$ 825,000</b>

**OPERATIONAL IMPACT:**

**PROJECT TITLE: CCIA Pavement Assessment**

**DESCRIPTION:**

This project is for Airport Pavement Management Program/Assessment (PMP) which includes collecting, analyzing, maintaining and reporting pavement data at Corpus Christi International as described in FAA Order 5100.38, Airport Improvement Program Handbook for Federally Funded Airports. The PMP assists airports in finding optimum strategies for maintaining pavements in safe serviceable condition over a given period for the least cost.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other				200.0			200,000
<b>TOTAL:</b>				200.0			<b>\$ 200,000</b>
Source of Funds							
Certificates of Obligation Airport Fund Reserves FAA Grant				200.0			200,000
<b>TOTAL:</b>				200.0			<b>\$ 200,000</b>

**OPERATIONAL IMPACT:**

The scope of the assessment will be divided into two parts as described below:

Part A – Inspection, testing, and evaluation of airside pavements for development of PCI and PCN values. Part A will include a 5-year pavement maintenance plan.  
 Part B – Development of a maintenance training manual. Part B will include staff training on performing routine maintenance and updating PAVER Database.

## PROJECT DESCRIPTION

Department: Aviation

AV14

### PROJECT TITLE: Airport Layout Plan

**DESCRIPTION:**

The Airport Layout Plan (ALP) serves as a critical planning tool that depicts both existing facilities and planned development for the airport. The project will include an illustration of:

1. Boundaries and proposed additions to all areas owned or controlled by the City/Airport for airport purposes.
2. Location and nature of existing and proposed airport facilities and structures.
3. Location on the airport of existing and proposed non-aviation areas and improvements.

Airport Layout Plan was last updated in 2012. Federal Aviation Administration encourages updating Airport Layout Plan approximately every five (5) years to reflect changing conditions.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				400.0			400,000
Design/Build Construction							
Contingency							
Inspection/Other							
<b>TOTAL:</b>				400.0			<b>\$ 400,000</b>
<b>Source of Funds</b>							
Certificates of Obligation							
Airport Fund Reserves				40.0			40,000
FAA Grant				360.0			360,000
<b>TOTAL:</b>				400.0			<b>\$ 400,000</b>

**OPERATIONAL IMPACT:**

**PROJECT TITLE: Aircraft Rescue Fire Fighting (Rescue 1) Equipment**

<p><b>DESCRIPTION:</b>                  A new Aircraft Rescue Firefighting (ARFF) Vehicle will replace the Aircraft Rescue Firefighting (ARFF) Model T11500 Vehicle purchased in 2001. (&gt; 16 years) The water tank capacity in a new ARFF Vehicle is 1,500 gallons, foam tank capacity is 205 gallons and dry chemical system is 700 lbs. The replacement of this vehicle is essential in order for CCIA to maintain its current index for Aircraft Rescue and Firefighting Response capability.</p>		<p style="text-align: center;"><b>PROJECT NOTES:</b></p> <p>Engineering Project No: TBD                  Finance Project No.: TBD                  A/E Consultant: TBD                  Contractor: TBD                  Award Design: TBD                  Award Construction: TBD                  Anticipated Completion: TBD</p>
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**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other				800.0			800,000
<b>TOTAL:</b>				800.0			<b>\$ 800,000</b>
<b>Source of Funds</b>							
Certificates of Obligation Airport Fund Reserves FAA Grant				80.0 720.0			80,000 720,000
<b>TOTAL:</b>				800.0			<b>\$ 800,000</b>

**OPERATIONAL IMPACT:**  
 Reduction of \$5,000 in maintenance/repairs to vehicle.

## PROJECT DESCRIPTION

Department: Aviation

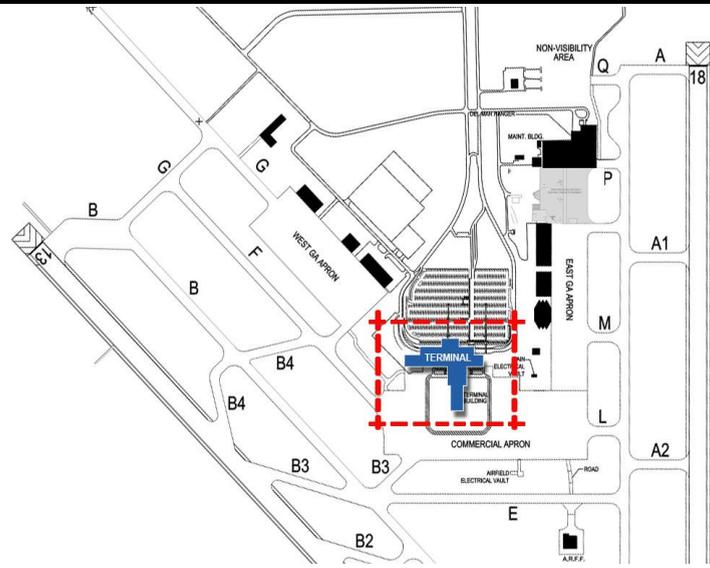
AV16

### PROJECT TITLE: Airport Master Plan

**DESCRIPTION:**

Airport Master Plan is a comprehensive study of Corpus Christi International Airport and describe short-, medium-, and long-term development plans to meet future aviation demand.

CCIA's Master Plan was last updated in 2007. Federal Aviation Administration encourages updating Master Plans approximately every 5 years to reflect changing conditions. Master Plan will include Airport Layout Plan (ALP) Update and Part 150 Noise Compatibility Study.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other					625.00		625,000
<b>TOTAL:</b>					625.00		<b>\$ 625,000</b>
<b>Source of Funds</b>							
Certificates of Obligation Airport Fund Reserves FAA Grant					62.5 562.5		62,500 562,500
<b>TOTAL:</b>					625.0		<b>\$ 625,000</b>

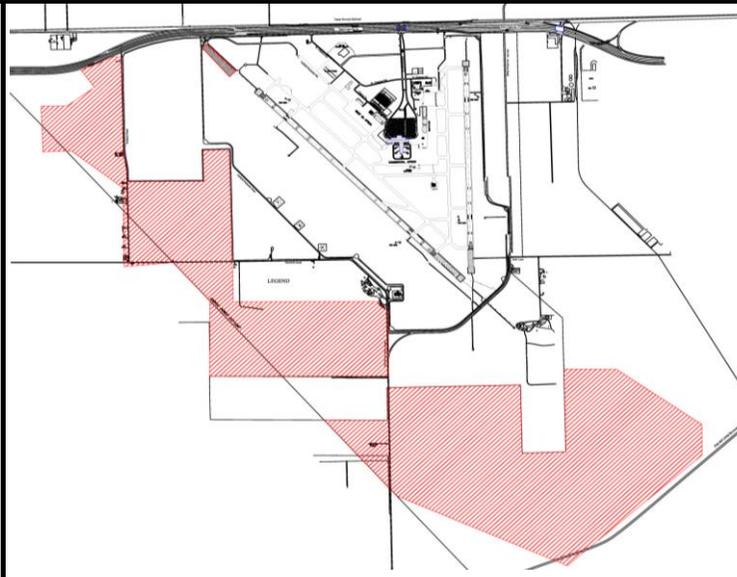
**OPERATIONAL IMPACT:**

No operational Impact.

**PROJECT TITLE: Airport Land Acquisition**

**DESCRIPTION:**

Land Acquisition for Parallel Runway 13-31 - Acquisition of approximately 1,632.15 acres of land west and south of Corpus Christi International Airport is planned for future expansion and to protect the airfield from encroachment. This land will accommodate construction of a new parallel runway and associated airfield infrastructure, air cargo, corporate and general aviation, intermodal, airline support and support facilities.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant:  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other					500.0	500.0	1,000,000
<b>TOTAL:</b>					500.0	500.0	<b>\$ 1,000,000</b>
Source of Funds							
Certificates of Obligation Airport Fund Reserves FAA Grant					500.0	500.0	1,000,000
<b>TOTAL:</b>					500.0	500.0	<b>\$ 1,000,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

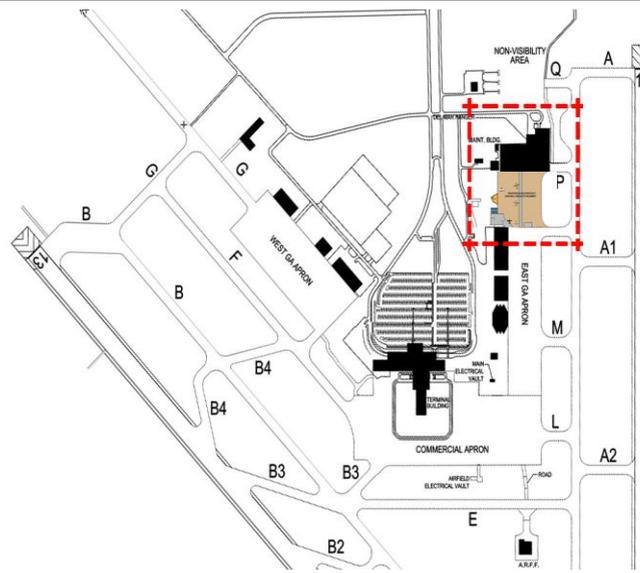
Department: Aviation

AV18

**PROJECT TITLE: Airport Fuel Farm**

**DESCRIPTION:**

Project will include installation of above ground storage tanks and associated fueling system equipment with separate pump islands, one 12,000 gallon tank for AV Gas and one 12,000 gallon tank for Jet A fuel. All aboveground storage tanks will be constructed of steel, factory fabricated, double wall, with secondary containment and UL listing, environmental & leak detection monitoring system, fuel management system with proximity card and credit card readers.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No.: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

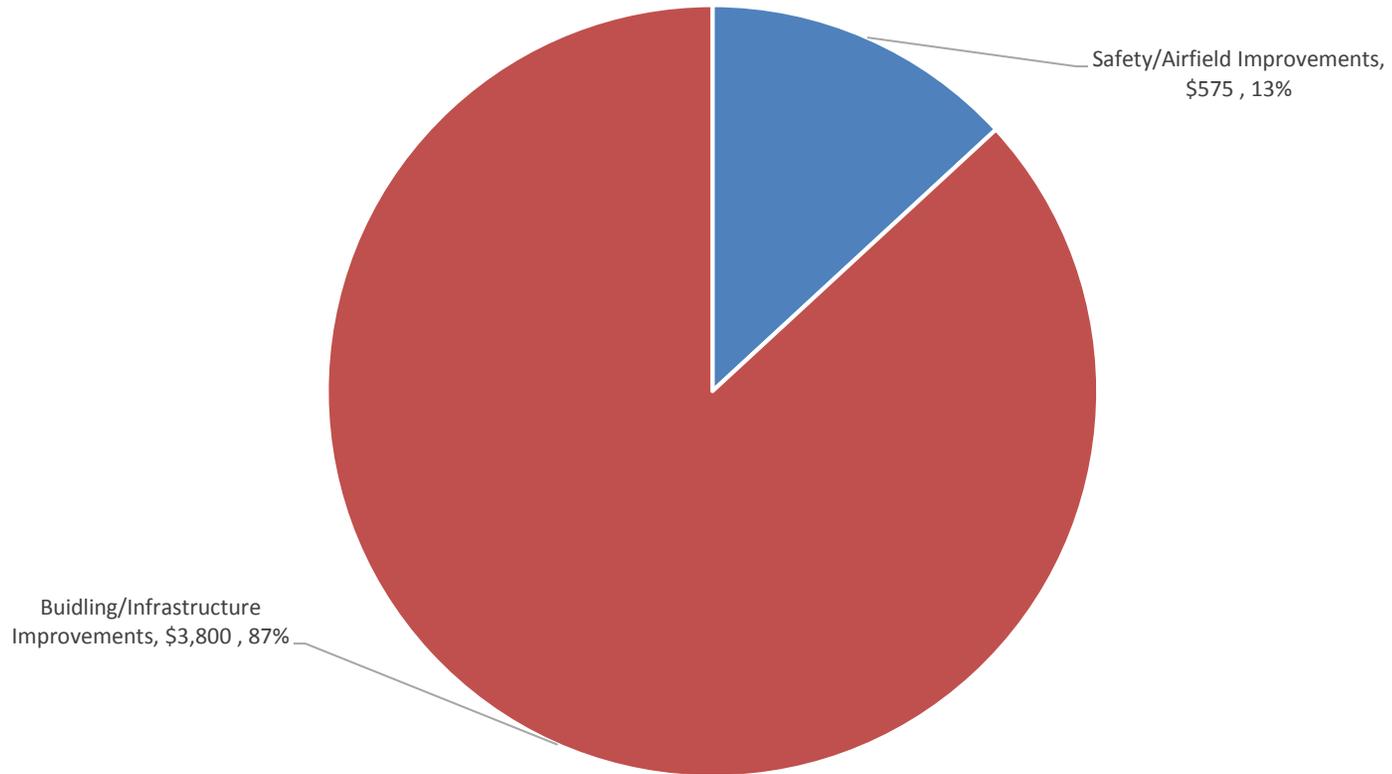
**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations February 2017	Unspent Prior Budget as of March 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					75.0		75,000
Design/Build Construction					425.0		425,000
Contingency							
Inspection/Other							
<b>TOTAL:</b>					500.0		<b>\$ 500,000</b>
Source of Funds							
Certificates of Obligation							
Airport Fund Reserves					500.0		500,000
<b>TOTAL:</b>					500.0		<b>\$ 500,000</b>

**OPERATIONAL IMPACT:**

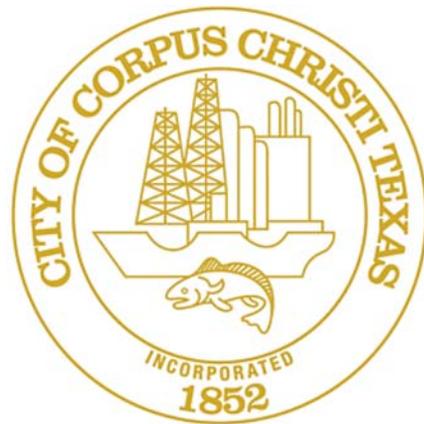
This project will generate additional revenue for Corpus Christi International Airport and meets customer demand for self fueling. Anticipated funding to come from operating fund and CIP reserves

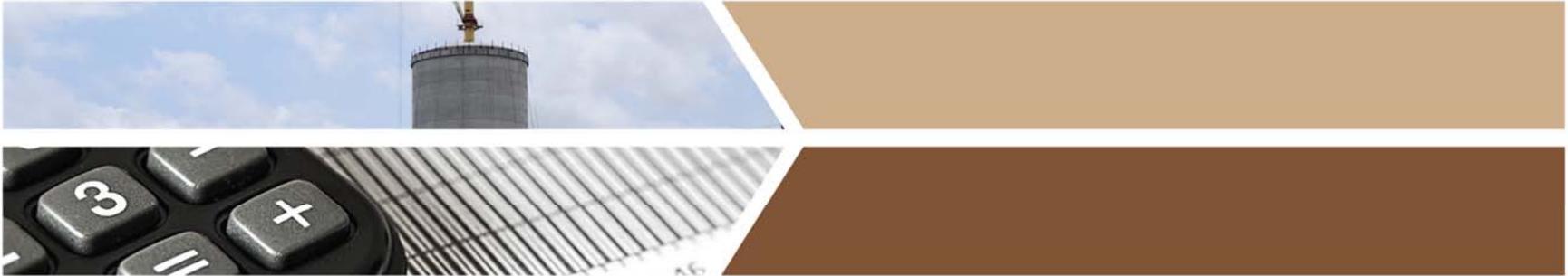
**Airport  
Annual CIP: \$4,375  
(Amounts in 000's)**



**AIRPORT  
Long Range CIP**

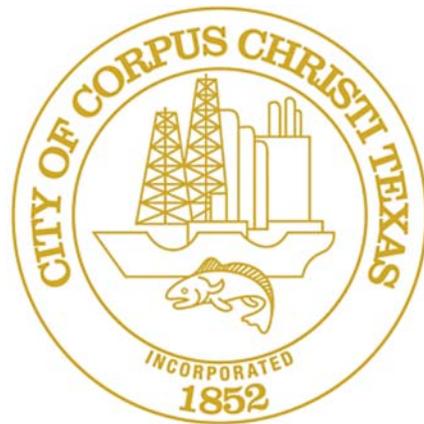
<u>LR 01 Cell Phone Parking Lot Development</u>	<u>\$500,000</u>
<p>A cellphone lot is a parking lot where people can wait for arriving passengers. The purpose of these lots is to reduce traffic and wear &amp; tear of airport roads created by vehicles continuously circling on airport roadways and congestion at airport terminal by providing another location for vehicles to wait until their passenger(s) notify them, via their personal communication devices, of their arrival and location. They were created as a solution to security measures to prevent cars from parking curbside when picking up passengers. Many airports currently offer this option for alleviating traffic congestion and improving security and safety.</p>	
<u>LR 02 Taxi Lane - Apron for T-Hangar Complex</u>	<u>\$1,000,000</u>
<p>Construction of T-Hangars will require rehabilitation of aprons to service hangar area. The hangars will service General Aviation (GA) aircraft.</p>	
<u>LR 03 Communication Building Demolition</u>	<u>\$75,000</u>
<p>The Communications Building is part of "old" tower and terminal structures. The building requires major repairs and is currently used for storage. Demolition of structure will create an area for future airport or business development use.</p>	
<u>LR 04 Aircraft Gates and Passenger Hold Rooms</u>	<u>\$2,800,000</u>
<p>Design of existing terminal allows for expansion to accommodate additional passenger hold rooms and gates. This project includes construction of 3,000 - 4,000 square feet of passenger hold room and supporting space, in addition to two contact gates to accommodate projected peak hour originating passengers projected for Passenger Activity Level (PAL) 2 and PAL 3. Expansion of the airside hold</p>	
<b>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</b>	<b><u><u>\$4,375,000</u></u></b>

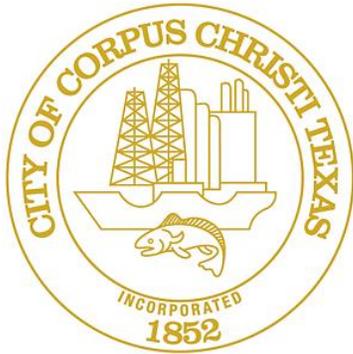




# PARKS

Obligation to the Future





# CITY OF CORPUS CHRISTI PARKS AND RECREATION PROGRAM

The Parks and Recreation Program is committed to providing social, recreational and cultural events in accessible and safe environments for the community as well as visitors to Corpus Christi. The Parks and Recreation Department is responsible for overseeing 4,000 acres of developed and undeveloped open spaces including 190 parks, three beaches, 2 nature parks and 10 miles of hike and bike trails. A Master Plan, developed in 2012 with input from Corpus Christi residents, guides the development of current and future park and recreation capital improvements. Commitment to a first-class park program has been supported through numerous voter approved General Obligation Bond elections over the past 16 years. The Bond Issue 2008 Parks Program encompassed numerous improvements and is coming to a close with the final project, Bayshore Park, underway. With the completion of the Bayfront Development Plan Phase 3 Street Project, the remaining funds were transferred to the Parks Capital Improvement Program and are being used to develop Bayshore Park at the site of the demolished Memorial Coliseum. Bayshore Park will be a primary venue for special events year-round including a range of recreational and cultural activities appealing to residents and tourists. This project is being constructed as a design / build project to save costs and expedite construction.

Several projects approved under the 2012 General Obligation Bond are nearing completion of the construction phase, including improvements to Swantner and Cole Parks both located along the City's scenic Ocean Drive; aquatic improvements to frequently used Collier and West Guth pools; and updates and improvements to several community parks developed in accordance with the Master Plan and designed to focus on the specific needs of each individual area.

Bond Issue 2014 includes one project to address park mitigation efforts to support the upcoming Harbor Bridge and a second project to address issues occurring along North Padre Island Beach. This project includes the construction of a beach maintenance facility on the island designed to provide office space and store equipment, thereby increasing staff responsiveness, reducing rentals, and saving on personnel and fuel costs.

Included in the Parks and Receptions program, in years 2 and 3, are projects to be considered for a possible future bond election in 2018. These projects were chosen based on greatest need, momentum of previous bond projects, and ability to maximize funding with other available sources.

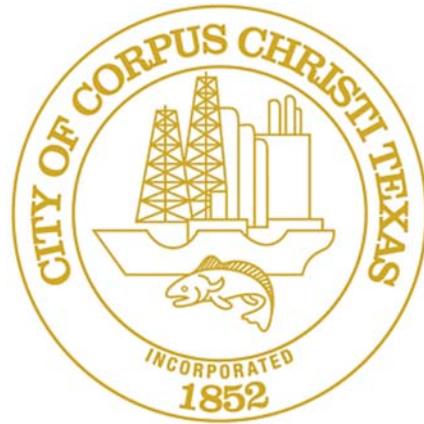
A recap of the 2018 budgeted expenditures includes:

EXPENDITURES:	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018 – 2019</b>	<b>YEAR THREE 2019 – 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 0</b>	<b>\$ 705,000</b>	<b>\$ 965,000</b>
<b>FUNDING:</b>			
Tax Increment Financing District	\$ 0	\$ 510,000	\$ 510,000
Future Bond Election	\$ 0	\$ 195,000	\$ 455,000
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 0</b>	<b>\$ 705,000</b>	<b>\$ 965,000</b>

**All other required funding was budgeted and received in previous years' budgets as listed on the Parks & Recreation Short Range Summary Sheet.**

## Parks & Recreations

There are no new financial requirements for Parks & Resreation Fiscal Year 2017 - 2018 Capital Improvement Program at this time. All projects shown will be financed from existing funds or will be completed in future years.



**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: PARKS & RECREATION IMPROVEMENTS**

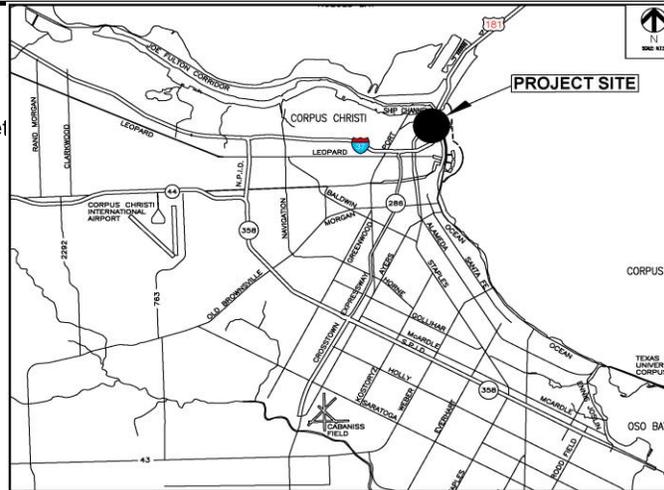
Sequence #01

**PROJECT TITLE: Harbor Bridge Replacement Mitigation and Support Projects, Phase 1**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project will construct the first phase of Parks and Recreation and Street work to mitigate initial phases of upcoming Harbor Bridge project.



**PROJECT NOTES:**

Project No:	E15101
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	67.3	200.0					267,300
Construction		2,500.0					2,500,000
Contingency		270.0					270,000
Inspection/Other	90.2	324.4					414,600
<b>TOTAL:</b>	157.5	3,294.4					<b>\$ 3,451,900</b>
Source of Funds							
Bond Issue 2014	157.5	3,294.4					3,451,900
<b>TOTAL:</b>	157.5	3,294.4					<b>\$ 3,451,900</b>

**OPERATIONAL IMPACT:**

No operational impact will be generated by this project, but the existing parks will be upgraded and incorporated into upcoming bridge construction plans.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: PARKS & RECREATION IMPROVEMENTS**

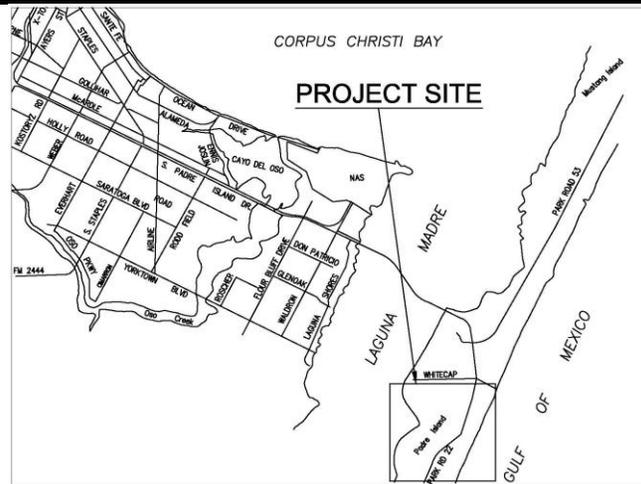
Sequence #02

**PROJECT TITLE: North Padre Island Beach Facility**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project will construct a Parks Beach Maintenance Facility south of Packery Channel.



**PROJECT NOTES:**

Project No: E15102  
 A/E Consultant: LNV, Inc.  
 Contractor: TBD  
 Award Design: July 2016  
 Award Construction: TBD  
 Anticipated Completion: TBD

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	90.0	20.0					110,000
Construction		874.7					874,700
Contingency		80.0					80,000
Inspection/Other	55.2	80.0					135,200
<b>TOTAL:</b>	145.2	1,054.7					<b>\$ 1,199,900</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2014	145.2	1,054.7					1,199,900
<b>TOTAL:</b>	145.2	1,054.7					<b>\$ 1,199,900</b>

**OPERATIONAL IMPACT:**

This facility will be used to stage equipment and staff who provide maintenance and lifeguarding services to gulf beach. Operational costs will be funded by existing Hotel Occupancy Tax (HOT) Funds.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Four: PARKS & RECREATION IMPROVEMENTS**

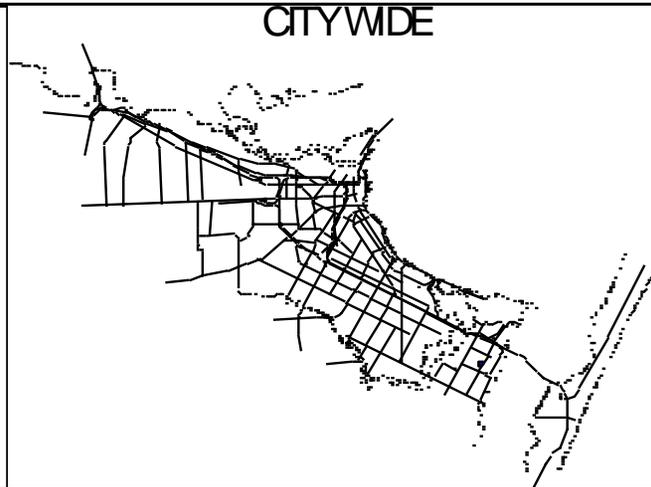
Sequence #03

**PROJECT TITLE: Community Park Development and Improvements**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project will focus on irrigation upgrades and extensions at West Guth, Bill Witt/Oso Creek, Hector P. Garcia/Salinas, Billish, and Parker Parks, as well as, downtown squares' La Retama and Artesian Parks. Other improvements could include specialty use amenities (such as dog parks, skate parks and splash pads), shade structures, landscaping, trails, parking improvements and other items designated for community parks in compliance with the Master Plan. This project is utilizing various design consultants to provide focus on specific needs of each area. As a result of this process, multiple construction contracts will be awarded.



**PROJECT NOTES:**

Parent Project No:	E12115
Bill Witt / Oso Creek No:	E14002
Billish Park No:	E14003
H.P. Garcia / Salinas No:	E14004
Parker Park No:	E14005
Artesian Park No:	E14006
West Guth Park No:	E14016
A/E Consultant:	Various
Contractor:	Various
Award Design:	June 2013
Award Construction:	On-Going
Anticipated Completion:	Winter '18

**FUNDING SCHEDULE (Amounts in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	500.8						500,800
Construction	895.0	2,600.0					3,495,000
Contingency		260.0					260,000
Inspection/Other	207.3	296.8					504,100
<b>TOTAL:</b>	1,603.1	3,156.8					<b>\$ 4,759,900</b>
<b>Source of Funds</b>							
Community Enrichment Funds	123.7						123,700
Bond Issue 2012	1,334.6	3,156.8					4,491,400
Downtown Management District	90.0						90,000
Street Bond Issue 2014	54.8						54,800
<b>TOTAL:</b>	1,603.1	3,156.8					<b>\$ 4,759,900</b>

**OPERATIONAL IMPACT:**

Operational Impact for this project will be minimal. One FTE estimated at \$29,500 and approximately \$5,000 in minor maintenance materials will be required to keep up with parks and their new improvements on a yearly basis.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Four: PARKS & RECREATION IMPROVEMENTS**

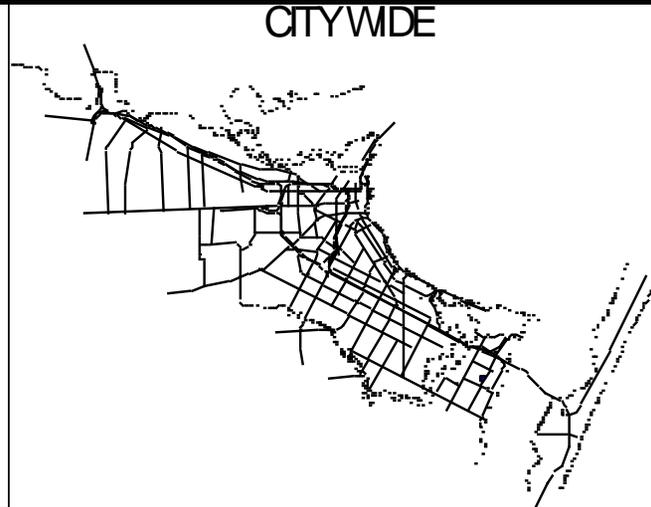
Sequence #04

**PROJECT TITLE: Hike and Bike Trail Development - City Wide**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project will focus on design and construction of hike and bike trails throughout the City with emphasis on extending existing trails, providing off road recreational trail experiences and creating connectivity between parks, public spaces and residential areas. Current year funding is for the next section of Schanen Hike and Bike Trail located along Shea Parkway from Saratoga Boulevard to Killarmet Drive, ultimately extending across Holly to Flynn Parkway/Tiger Lane/Corona Drive intersection. Future years may include other trail priorities listed in Parks, Recreation and Open Space and Community Hike and Bike Trail Master Plans to the extent funding allows. This project will bring continuity to a currently disjointed and segmented trail system. The City is also using these funds as matching funds for grant applications for future projects.



**PROJECT NOTES:**

Parent Project No:	E12116
Schanen Trail Phase 3	E16258
A/E Consultant:	Martinez, Guy & Maybik
Contractor:	TBD
Award Design:	March 2016
Award Construction:	FY 2018
Anticipated Completion:	FY 2018

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	270.7					750.0	1,020,700
Construction	2,308.6					5,625.0	7,933,600
Contingency						375.0	375,000
Inspection/Other	519.4	2.3				750.0	1,271,700
<b>TOTAL:</b>	<b>3,098.7</b>	<b>2.3</b>				<b>7,500.0</b>	<b>\$ 10,601,000</b>

Source of Funds							
Bond Issue 2008 Reserves	156.4						156,400
Bond Issue 2012	1,908.7	2.3					1,911,000
Tx Department of Transportation	733.9						733,900
Community Enrichment Funds	299.7						299,700
Future Bond Election						7,500.0	7,500,000
<b>TOTAL:</b>	<b>3,098.7</b>	<b>2.3</b>				<b>7,500.0</b>	<b>\$ 10,601,000</b>

**OPERATIONAL IMPACT:**

Determination of operational impact is anticipated to be negligible and public use and enjoyment will increase greatly.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Four: PARKS & RECREATION IMPROVEMENTS**

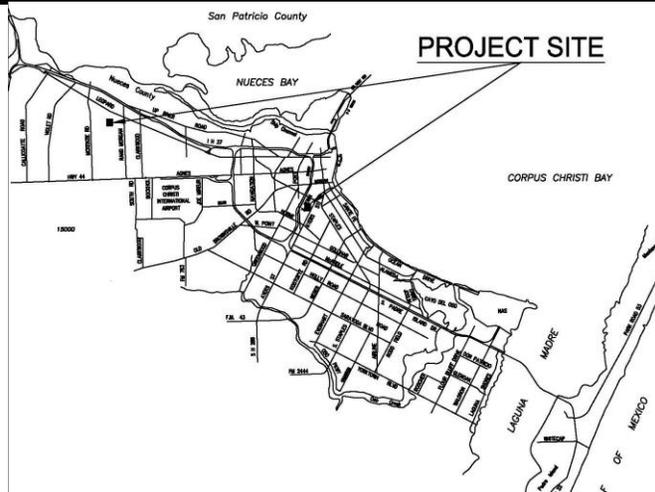
Sequence #05

**PROJECT TITLE: Aquatic Facility Upgrades and Improvements**

**Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan**

**DESCRIPTION:**

Improvements to Aquatic facilities are listed as top priorities for development in Parks, Recreation and Open Space Master Plan. Collier Pool is one of the most utilized public facilities in the park system. Dedicated lap swimmers, open swim participants, learn to swim participants, and neighborhood groups use the pool on a regular basis, maximizing the pool's capacity as well as the city resources used to keep it operational on a year-round basis. According to citizen survey conducted by Half and Associates, West Guth is the second most popular park in Corpus Christi. Following suit, the pool is one of the most popular places for residents in the Northwest to congregate on a hot summer day. Updates to these facilities may include construction of splash pads, wading and zero depth entry pools, extension of lap lanes and swimmer amenities with other related facility improvements.



**PROJECT NOTES:**

Parent Project No: E12117  
 West Guth Pool No: E14007  
 Collier Pool E14008  
**COLLIER POOL:**  
 A/E Consultant (Collier): TRA  
 A/E Consultant (West Guth): TRA  
 Contractor: Atlantis Aquatic Group  
 Award Design: May 2015  
 Award Construction: April 2016  
 Anticipated Completion: May 2018

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	287.9					600.0	887,900
Construction	2,502.9	400.0				4,500.0	7,402,900
Contingency		40.0				300.0	340,000
Inspection/Other	308.2	4.6				600.0	912,800
<b>TOTAL:</b>	<b>3,099.0</b>	<b>444.6</b>				<b>6,000.0</b>	<b>\$ 9,543,600</b>

Source of Funds							
Bond Issue 2012	2,941.4	444.6					3,386,000
Community Enrichment Funds	157.6						157,600
Future Bond Election						6,000.0	6,000,000
<b>TOTAL:</b>	<b>3,099.0</b>	<b>444.6</b>				<b>6,000.0</b>	<b>\$ 9,543,600</b>

**OPERATIONAL IMPACT:**

Once construction is complete, the City will need to consider restoring operational hours at community pools. A decision packet to restore summer operational hours to 2009 levels has been submitted for Council approval. The package includes a request for a net-increase of approximately \$145,000.

## PROJECT DESCRIPTION

**Bond 2012 Proposition Four: PARKS & RECREATION IMPROVEMENTS**

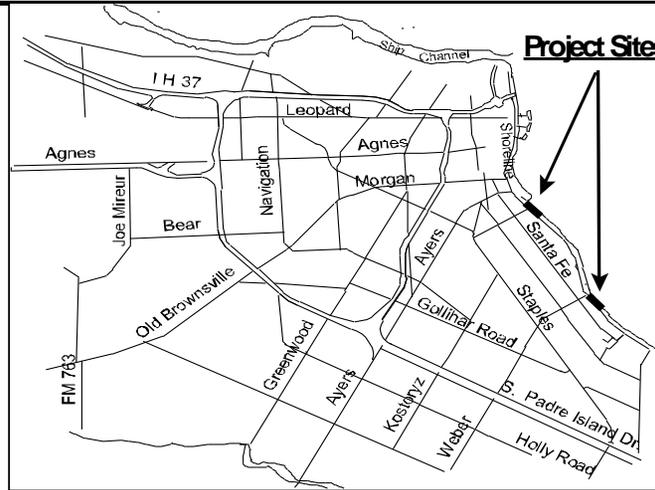
Sequence #06

**PROJECT TITLE: Ocean Drive Park Improvements**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

The scope of this project includes improvements to Swantner and Cole Parks to the extent funding allows. Planned improvements at Swantner include repairs to the sea wall. Improvements to Cole Park include completion of shoreline stabilization started in Bond 2008, and other improvements.



PROJECT NOTES:	
Parent Project No:	E12119
Swantner Park No:	E14049
Cole Park No:	E14050
A/E Consultant:	HDR Engineering
Award Design:	Feb 2013
Contractor (Swantner):	DMB Const.
Award Const. (Swantner):	Sept 2016
Complete Const. (Swantner):	Aug 2017
Contractor (Cole Park):	JE Const.
Award Const. (Cole Park):	March '17
Complete Const. (Cole Park):	Oct 2017

### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	1,026.4					1,200.0	2,226,400
Construction	818.5	1,000.0				9,000.0	10,818,500
Contingency		100.0				600.0	700,000
Inspection/Other	94.5	63.1				1,200.0	1,357,600
<b>TOTAL:</b>	1,939.4	1,163.1				12,000.0	<b>\$ 15,102,500</b>
Source of Funds							
Bond Issue 2012	1,939.4	1,163.1					3,102,500
Future Bond Election						12,000.0	12,000,000
<b>TOTAL:</b>	1,939.4	1,163.1				12,000.0	<b>\$ 15,102,500</b>

**OPERATIONAL IMPACT:**

No operational impact will be generated by this project.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Four: PARKS & RECREATION IMPROVEMENTS**

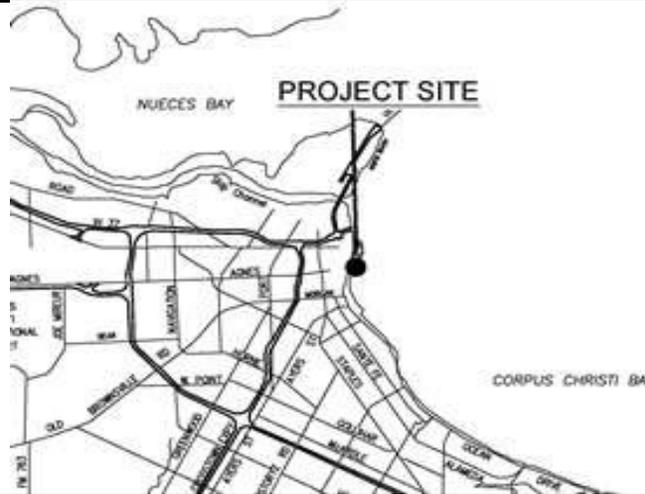
Sequence #07

**PROJECT TITLE: Marina Public Restrooms / Boaters Facility on L-Head**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50;*

**DESCRIPTION:**

The Marina provides many benefits for boaters, the local community and visitors. The existing small restroom facility located on Coopers Alley L-Head no longer supports increase of boater's traffic, including public events use. The new Public & Boaters Restroom Facility design will accommodate the increase in usage demand for many years into the future. The Marina will use current existing set of architectural plans for this Boaters Facility that has already been constructed twice within the marina complex on both the other two T-Heads creating a savings in design and layout costs.



**PROJECT NOTES:**

Parent Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				70.0			70,000
Construction					415.0		415,000
Contingency					40.0		40,000
Inspection/Other				125.0			125,000
<b>TOTAL:</b>				195.0	455.0		<b>\$ 650,000</b>
Source of Funds							
Future Certificates of Obligation				195.0			195,000
Future Bond Election					455.0		455,000
<b>TOTAL:</b>				195.0	455.0		<b>\$ 650,000</b>

**OPERATIONAL IMPACT:**

Long term operational costs will be developed through design and project development process.

**PROJECT DESCRIPTION**

Department: **PARKS & RECREATION**

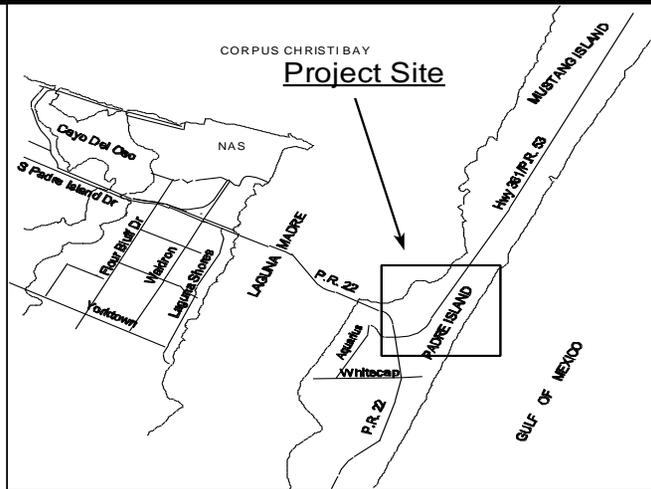
Sequence #08

**PROJECT TITLE: Packery Channel Improvements, Phase 3 (Restroom Facilities)**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project is being re-evaluated. All future improvements will be coordinated with the Island Strategic Action Committee, North Padre Island Development Corporation, Tax Increment Financing Board and City Council.



**PROJECT NOTES:**

Finance No:	E03399
Engineering No:	3399
A/E Consultant:	Anastos & Associates
Contractor:	TBD
Award Design:	Dec. 2013
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	215.9						215,900
Construction							
Contingency							
Inspection/Other	20.7	412.0					432,700
<b>TOTAL:</b>	236.6	412.0					<b>\$ 648,600</b>
<b>Source of Funds</b>							
Tax Increment Finance District	236.6	412.0					648,600
<b>TOTAL:</b>	236.6	412.0					<b>\$ 648,600</b>

**OPERATIONAL IMPACT:**

To Be Determined.

**PROJECT DESCRIPTION**

Department: **PARKS & RECREATION**

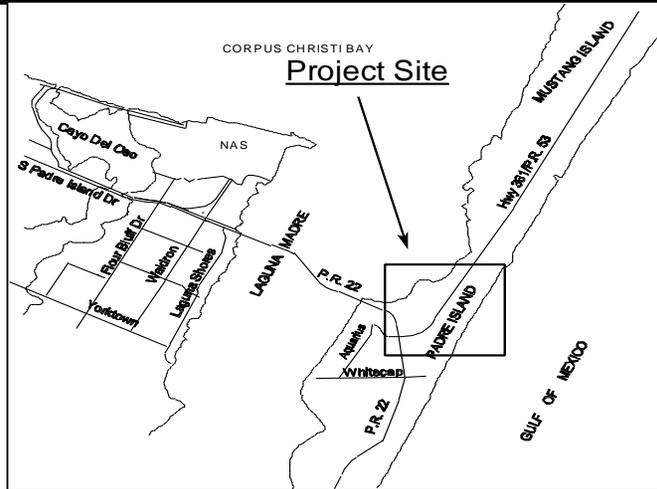
Sequence #09

**PROJECT TITLE: Packery Channel Improvements, Phase 4 (Ramps to Jetties)**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project is being re-evaluated. All future improvements will be coordinated with the Island Strategic Action Committee, North Padre Island Development Corporation, Tax Increment Financing Board and City Council.



**PROJECT NOTES:**

Finance No:	E03401
Engineering No:	3401
A/E Consultant:	Freese & Nichols, Inc.
Contractor:	TBD
Award Design:	Feb. 2009
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering							
Construction							
Contingency							
Inspection/Other	8.9	1.1					10,000
<b>TOTAL:</b>	8.9	1.1					\$ 10,000
Source of Funds							
Tax Increment Finance District	8.9	1.1					10,000
<b>TOTAL:</b>	8.9	1.1					\$ 10,000

**OPERATIONAL IMPACT:**

To Be Determined.

**PROJECT DESCRIPTION**

Department: **PARKS & RECREATION**

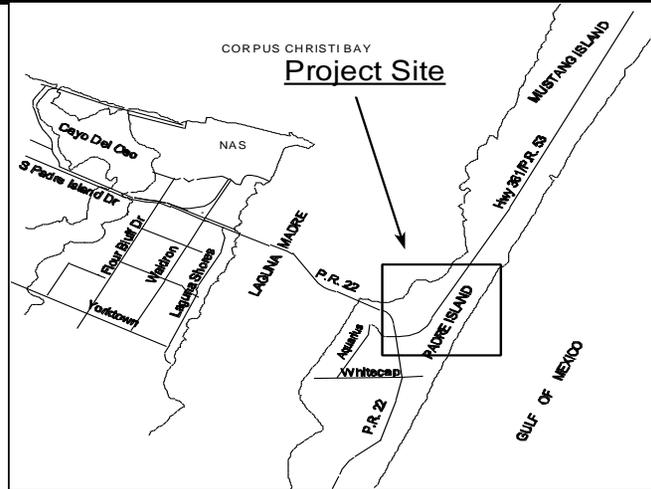
Sequence #10

**PROJECT TITLE: Packery Channel Improvements, Phase 5 (Pavilion)**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project is being re-evaluated. All future improvements will be coordinated with the Island Strategic Action Committee, North Padre Island Development Corporation, Tax Increment Financing Board and City Council.



**PROJECT NOTES:**

Finance No:	E03402
Engineering No:	3402
A/E Consultant:	Anastos & Associates
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		100.0					100,000
Construction		750.0					750,000
Contingency		50.0					50,000
Inspection/Other		100.0					100,000
<b>TOTAL:</b>		1,000.0					<b>\$ 1,000,000</b>
Source of Funds							
Tax Increment Finance District		1,000.0					1,000,000
<b>TOTAL:</b>		1,000.0					<b>\$ 1,000,000</b>

**OPERATIONAL IMPACT:**

To Be Determined.

**PROJECT DESCRIPTION**

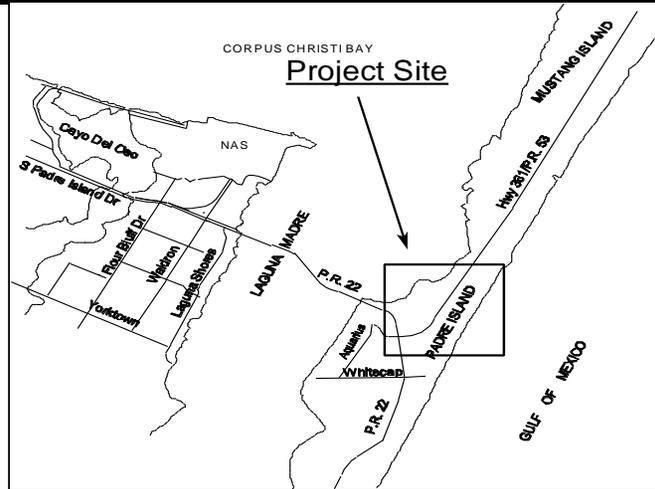
Department: **PARKS & RECREATION** Sequence #11

**PROJECT TITLE: Packery Channel Miscellaneous Improvements**

*Consistency with Comprehensive Plan; Policy Statements pp. 48-50; Parks Open Space Master Plan*

**DESCRIPTION:**

This project includes funds for yearly identified projects to support Packery Channel, exclusive of previously identified capital projects, Phases 3 through 6. Planned work could include: periodic surveys of channel conditions, shoreline and jetty revetments, access to beach and sand redistribution. All projects will be done in conjunction with the Island Strategic Action Committee, North Padre Island Development Corporation, Tax Increment Financing Board and City Council approval.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	As Needed
Contractor:	As Needed
Award Design:	As Needed
Award Construction:	As Needed
Anticipated Completion:	As Needed

**FUNDING SCHEDULE (Amounts in 000's)**

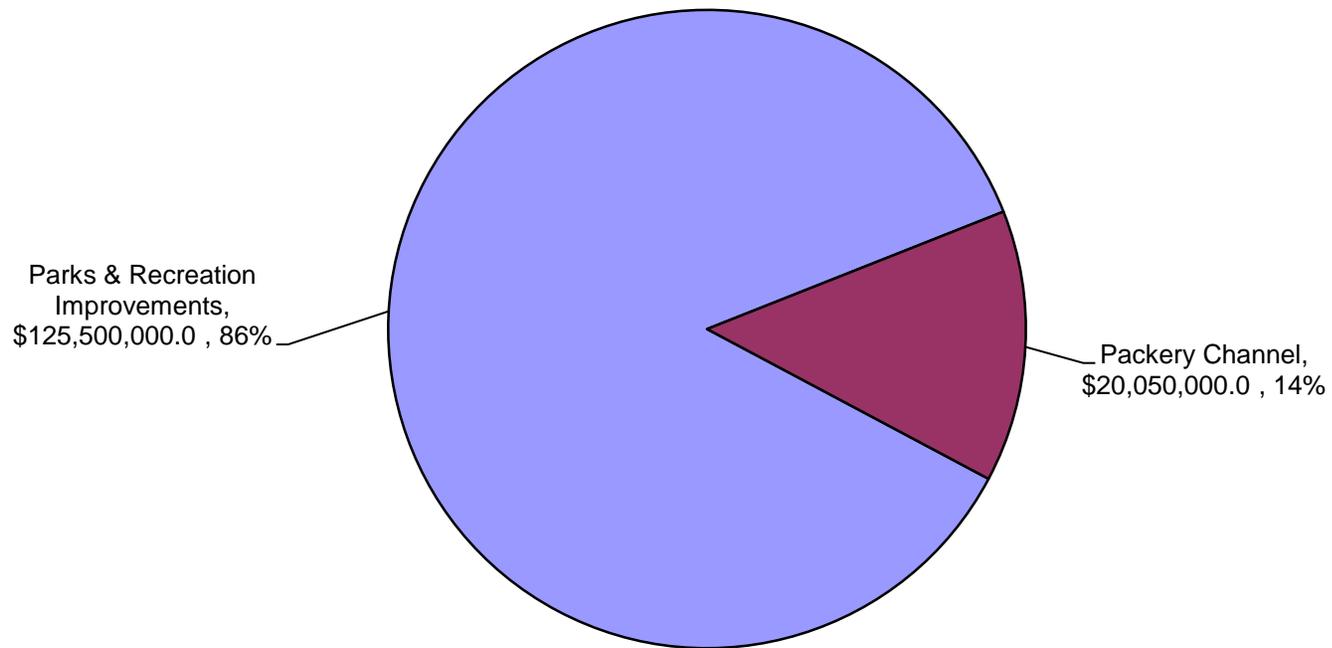
Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				50.0	50.0		100,000
Construction				370.0	370.0		740,000
Contingency				40.0	40.0		80,000
Inspection/Other				50.0	50.0		100,000
<b>TOTAL:</b>				510.0	510.0		<b>\$ 1,020,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Tax Increment Finance District				510.0	510.0		1,020,000
<b>TOTAL:</b>				510.0	510.0		<b>\$ 1,020,000</b>

**OPERATIONAL IMPACT:**

These projects will support the use of Packery Channel and will be completed over multiple years as funding is available.

**Parks and Recreation  
Long-Range CIP: \$145,540.0  
(Amounts in 000's)**



**PARKS AND RECREATION  
LONG-RANGE CIP**

**PARKS & RECREATION IMPROVEMENTS**

- 1 Community and Major Investment Park Development and Improvements \$10,000,000  
This project provides for improvements to the seven community parks and various major investment parks designated in the 2012 Parks and Recreation Master Plan. Improvements will include, but are not limited to, landscaping and turf enhancements, park equipment, shade structures and specialty areas to meet recreation needs of each planning area in each park.
  
- 2 Hike and Bike Improvements \$7,500,000  
This project will construct hike and bike trails alongside drainage easements, existing parkways, and other areas. The trails will provide access from nearby neighborhoods to several area schools. This project will also establish a relationship with the transportation system by constructing a new passage for pedestrians and bicyclists without taking away or adding to the existing roadway.
  
- 3 Aquatic Facilities Improvements \$6,000,000  
This project provides for improvements to City neighborhood swimming pools that are in need of renovation to create aquatic facilities that are in compliance with ADA regulations and include amenities that are attractive and safe. This project could include bathhouses, water attractions, spray elements, shade structures, picnic tables, renovated parking lots, chlorination system upgrades and ADA Improvements.
  
- 4 Tennis Center Improvements \$2,000,000  
This project provides for improvements to City tennis centers that are in need of renovation to lighting, courts, parking lots and guest services buildings.
  
- 5 Ocean Drive Parks Improvements \$12,000,000  
This project will include park improvements for Ocean Drive Parks from Cole Park south to Palmetto Park. Improvements could include landscape and turf improvements, park structures, shoreline stabilization and other additions as dictated by the 2012 Parks and Recreation Master Plan.
  
- 6 Sports Field Improvements \$10,000,000  
Funding will provide for improvements to city sports fields not recently upgraded to enhance safety and appearance of fields for participants and visitors to enjoy. Work could include upgrades to lighting, irrigation, parking lots, fields, concession stands, infrastructure and other amenities.

**PARKS AND RECREATION  
LONG-RANGE CIP**

- |    |  |                     |
|----|--|---------------------|
| 7  | <u>Senior Center Improvements</u>  | <u>\$7,500,000</u>  |
|    | <p>This project will address improvements to senior centers throughout the City. Work will be planned to modernize facilities to make them safer, more efficient, and more enjoyable for residents per the soon to be completed Programs Master Plan.</p>  |                     |
| 8  | <u>Recreation Center Improvements</u>  | <u>\$7,500,000</u>  |
|    | <p>Improvements to recreation centers will be made to upgrade and modernize facilities to meet needs of residents in that area per the soon to be completed Programs Master Plan.</p>  |                     |
| 9  | <u>Golf Course Improvements</u>  | <u>\$6,500,000</u>  |
|    | <p>Improvements will be made as required to improve the City's existing two golf courses and increase revenues to alleviate debt.</p>  |                     |
| 10 | <u>Oso Bay Nature Learning Center and Preserve (Phase III)</u>   | <u>\$2,000,000</u>  |
|    | <p>This project will include Phase III of the Oso Bay / Oso Park project and will include construction of exhibit hall and children's experimental learning play center.</p>   |                     |
| 11 | <u>Southside Maintenance Facility</u>  | <u>\$2,000,000</u>  |
|    | <p>The Parks &amp; Recreation Department needs a permanent location and building to house recreation department supplies on the rapidly growing Southside of town. The facility would include a structure with office space, warehouse, loading dock, restroom with ADA accessibility throughout.</p>  |                     |
| 12 | <u>Tourist District Maintenance Facility</u>   | <u>\$3,500,000</u>  |
|    | <p>The Parks &amp; Recreation Department needs a permanent location and building to house recreation department supplies within the tourist district. The facility would include a structure with office space, warehouse, loading dock, restroom and with ADA accessibility throughout. This project is important as the redevelopment of the area adjacent to the existing Harbor Bridge is being planned.</p>           |                     |
| 13 | <u>Heritage Park Improvements</u>  | <u>\$2,500,000</u>  |
|    | <p>Proposed funding would provide for restoration of the home, sidewalks, lighting, fencing, landscaping with irrigation and other improvements to provide a level of development comparable to other historic homes in the park</p>   |                     |
| 14 | <u>Oso Bay Railroad Trestle - Hike and Bike</u>  | <u>\$11,500,000</u> |
|    | <p>Identified both in the 2012 Parks and Recreation Master Plan, Mobility CC and Strategic Plan for Active Mobility, this abandoned trestle will provide bicycle / pedestrian access to and from Flour Buff across Oso Bay. This project will include design and construction of the bridge in addition to any required land purchases, park improvements and trail improvements necessary to complete the connection.</p> |                     |

**PARKS AND RECREATION  
LONG-RANGE CIP**

- |    |   |                     |
|----|---|---------------------|
| 15 | JFK Boat Ramp (Billings and Clems Marina Parking Lot, Phase 3)  | <u>\$1,000,000</u>  |
|    | This project will continue phased work to the parking lot and marina facilities at the Billings and Clems Marina to the extent that funding allows.   |                     |
| 16 | Mega Recreation Center - 25,000 Square Feet   | <u>\$25,000,000</u> |
|    | The construction of a state of the art recreation facility is one of the priority development elements identified in the 2012 Parks and Recreation Master Plan. The facility will provide space for recreational, cultural, social and athletic activities in one convenient location.  |                     |
| 17 | Demitt Pier Renovation of Lighting and Decking  | <u>\$2,000,000</u>  |
|    | This pier is located in Flour Bluff next to the Laguna Madre Wastewater Treatment Plant. The structure is aging and in need of major renovation to address continuing deterioration and safety concerns. The decking of the pier walkway needs to be replaced as well as the existing lighting system.  |                     |
| 18 | Neighborhood Park Improvements  | <u>\$4,500,000</u>  |
|    | Proposed funding provides for professional services to evaluate all of the City's neighborhood parks and recommend the number of sectors or cells to be identified for locations of keystone neighborhood parks. The scope of work would include developing and preparation of park planning through the comprehensive plan, new plans for re-development, consistent with the Parks, Recreation & Open Space Plan. |                     |
| 19 | Watergarden Area Improvements   | <u>\$2,500,000</u>  |
|    | Proposed funding would provide for replacement of mechanical items in addition to sidewalks, lighting, landscaping with irrigation and other improvements.  |                     |

**PACKERY CHANNEL IMPROVEMENTS**

- |    |  |     |
|----|--|-----|
| 20 | Packery Channel Improvements Phase 7 Administration and Maintenance Building (Continuation)  | TBD |
|    | This project includes parking lots on the beach along the north and south side of the channel. Development of this project will be pending USACE and TGLO approval and authorization. Project initiation schedule pending availability of funds and completion of previous phases.   |     |
| 21 | Packery Channel Miscellaneous Improvements   | TBD |
|    | This project includes funds for yearly identified projects to support Packery Channel exclusive of the previously identified capital projects Phases 3 through 7. Planned work could include: periodic surveys of channel conditions, shoreline and jetty revetments, access to beach and sand redistribution. All projects will be done in conjunction with the Island Action Committee, TIRZ #2 and City Council approval. |     |

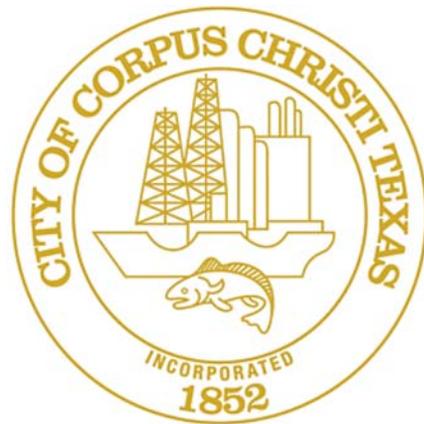
**PARKS AND RECREATION  
LONG-RANGE CIP**

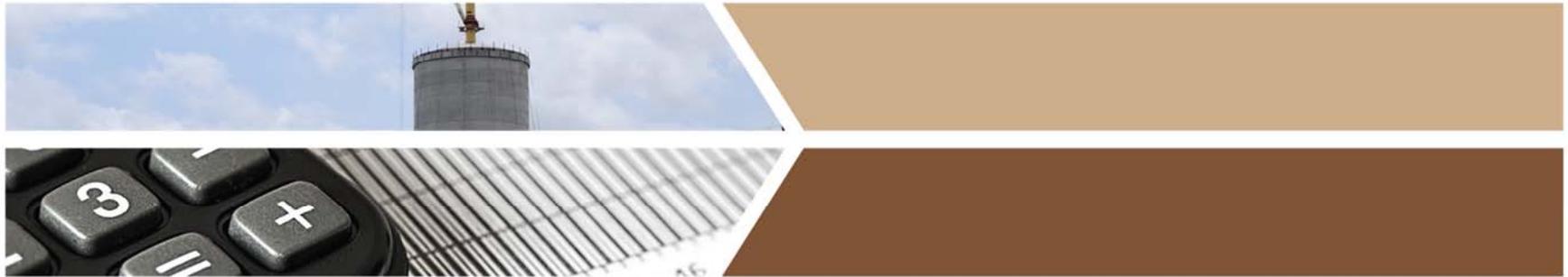
**MARINA**

- |    |  |                    |
|----|--|--------------------|
| 22 | <u>Marina Administration Offices</u>   | <u>\$3,900,000</u> |
|    | <p>Construction of a new Marina Lighthouse administration office building is proposed on the Lawrence Street T-Head or Shoreline median. An approximately 8,000 square foot four-story lighthouse building to include shopping, offices for Marina Administration, a conference room, restrooms, Marina Patrol observation office, Convention and Visitors Bureau &amp; Regional Transportation Authority Information office, fifth level for Port of CC Harbor Masters Office with commanding view of entire CC Ship Channel &amp; CC Bay, an observation deck at the top is proposed. The project would utilize part of the design of the original Corpus Christi Lighthouse built on the Bluff during the Civil War and demolished in 1878.</p> |                    |
| 23 | <u>Municipal Marina Information and Administration Center</u>  | <u>\$1,750,000</u> |
|    | <p>This project will include a Marine Rescue Operations Control Center with Administration Office including a Community Room/Marine Education Library/Visitor Information. Location: Lawrence Street T-Head. The Marina Department is in need of an administration office including a Marine Rescue Operations Control Center. Marina Staff conduct approximately 235 Marine Rescue Boat Operations per year with staff operating 24/7/365. At present, the Marina Office uses the "Boaters Community Room" for an administration office leaving the boaters/tenants with no indoor recreational facility.</p>   |                    |
| 24 | <u>New Buoy Floating Moorings in North Basin just north of Peoples Street T-Head for Mooring Boats</u>   | <u>\$150,000</u>   |
|    | <p>This project would include funding to design and construct floating moorings for permanent and transient boat area.</p>   |                    |
| 25 | <u>Marina Dredging</u>   | <u>\$4,000,000</u> |
|    | <p>Funding is recommended for maintenance dredging operations within the Marina basins and fairways.</p>   |                    |
| 26 | <u>Marina Site Improvements</u>  | <u>\$850,000</u>   |
|    | <p>Lift stations, electrical equipment rooms, storage rooms, improvements, landscaping stem and head portions of the land masses, irrigation, soil improvements and site furnishings. Attractive uniform signage and landscaping to the seawall are desired to soften appearance of all Marina facilities.</p>   |                    |
| 27 | <u>Breakwater Renovation/Reconstruction</u>  | <u>\$2,000,000</u> |
|    | <p>Replacement of Marina Breakwater promenade in the Marina South Basin / public bathrooms / lighting and dividing the marina southern basin from McGee Beach is recommended under this project.</p>   |                    |
| 28 | <u>Boating Educational Center / Regatta World Championship Procurement Office</u>  | <u>\$650,000</u>   |
|    | <p>This project would construct a procurement office for the World Boating Championships / Kids / Adult Marine / Sailing Center.</p>   |                    |

**PARKS AND RECREATION  
LONG-RANGE CIP**

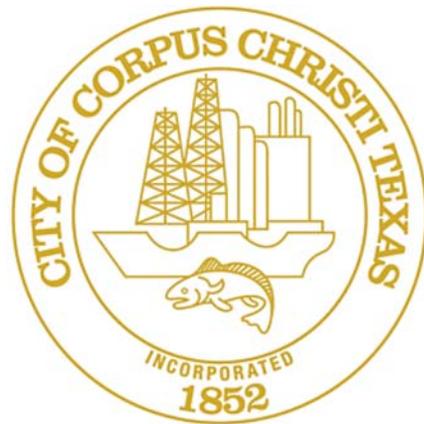
29	<u>Boat Haul-Out Center Renovation and Expansion</u>	<u>\$4,850,000</u>
	This project recommends bringing the Haul-Out Facility up to EPA/TCEQ Standards and expand land and boat lift launch area to accommodate large Boats / Races / Regattas / Boat Storage / Boat Dry Stack Storage.	
30	<u>Marina Asphalt, Repair, Renovation and Security / Gate / Lighting System</u>	<u>\$1,900,000</u>
	This project would repair asphalt throughout the three landmasses as well as provide for new Security / Gate / Lighting / Camera System throughout marina complex with proximity card readers at all marina gates and bathroom facilities.	
<b><u>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</u></b>		<b><u>\$ 145,550,000</u></b>

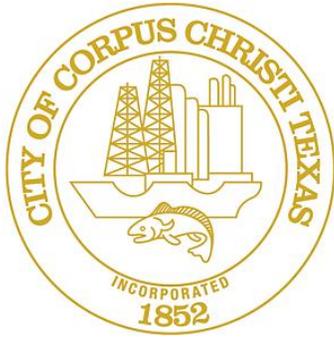




# PUBLIC FACILITIES

Obligation to the Future





# **CORPUS CHRISTI PUBLIC FACILITIES PROGRAM**

One focus of the Fiscal Year 2017 Public Facilities Program is directed at the construction phase of Bond Issue 2012 Projects listed in Proposition Five: Central Library Roof Replacement and other repairs. This project will be completed through the Facilities Multiple Award Contract (FMAC) to construct the improvements within the funds available.

A second focus of this year's program includes additional improvements to City facilities through the use of a proposed annual \$2M in Certificates of Obligation (CO). These projects have been identified to correct deficiencies as determined in Fiscal Year 2016. Projects include structural improvements such as roofing, mechanical, electrical, fire alarm and other large-scale capital outlay items. The projects will be prioritized and completed to the extent that yearly funding allows.

Included in the Public Facilities program, in years 2 and 3, are projects to be considered for a possible future bond election in 2018 or later. These projects were chosen based on greatest need, momentum of previous bond projects, and ability to maximize funding with other available sources.

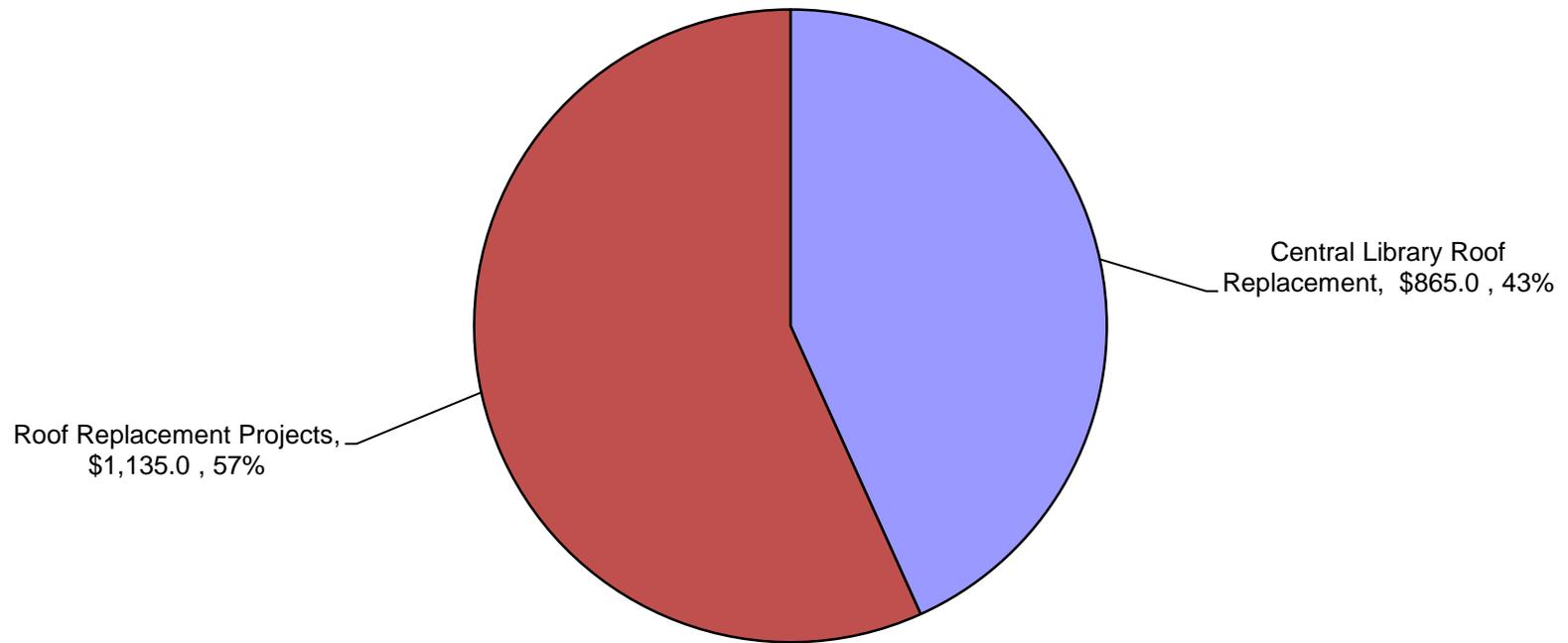
The Public Facilities Long-Range Program continues to identify improvements to city-owned facilities to address aging infrastructure, increase energy efficiency and modernize existing technology. Corrective actions will be planned through either future bond elections or a recapitalization plan.

A recap of the Public Facilities Capital Improvement Budget for Fiscal Year 2017 - 2018 includes:

	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018 – 2019</b>	<b>YEAR THREE 2019 – 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 2,000,000</b>	\$ 2,000,000	\$ 2,000,000
<b>RECOMMENDED ADDITIONAL FUNDING:</b>			
Certificates of Obligation	<b>\$ 2,000,000</b>	\$ 2,000,000	\$ 2,000,000
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 2,000,000</b>	\$ 2,000,000	\$ 2,000,000

**All other required funding was budgeted and received in previous years' budgets as listed on the Public Facilities Short Range Summary Sheet.**

**Public Facilities**  
**Annual CIP: \$2,000**  
**(Amounts in 000's)**



**PUBLIC FACILITIES  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
PF 01	<b>Central Library Roof Replacement</b> Finance and Engineering Number: E12121	58.7	201.3	<b>865.0</b>			<b>865.0</b>
PF 02	<b>Owen R. Hopkins &amp; Garcia Library Roof Replacement</b> Finance and Engineering Number: E12122	25.0	55.0				
PF 03	<b>Comprehensive Facilities Improvements</b> Finance and Engineering Number: E14062	1,796.8	256.0				
PF 04	<b>Roof Replacement and Upgrade Projects Fiscal Year 2017 - 2018</b> Finance and Engineering Number: TBD			<b>1,135.0</b>			<b>1,135.0</b>
PF 05	<b>Roof Replacement and Upgrade Projects Fiscal Year 2018 - 2019</b> Finance and Engineering Number: TBD				1,050.0		<b>1,050.0</b>
PF 06	<b>Roof Replacement and Upgrade Projects Fiscal Year 2019 - 2020</b> Finance and Engineering Number: TBD					1,250.0	<b>1,250.0</b>
PF 07	<b>Mechanical, Electrical and Fire Alarm Upgrade Projects Fiscal Year 2018 - 2019</b> Finance and Engineering Number: TBD				700.0		<b>700.0</b>
PF 08	<b>Mechanical, Electrical and Fire Alarm Upgrade Projects Fiscal Year 2019 - 2020</b> Finance and Engineering Number: TBD					375.0	<b>375.0</b>

**PUBLIC FACILITIES  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
PF 09	<b>Public Facilities Special - Including Elevator and Structural Upgrades Fiscal Year 2018 - 2019</b> Finance and Engineering Number: TBD				250.0		250.0
PF 10	<b>Public Facilities Special - Including Elevator and Structural Upgrades Fiscal Year 2019 - 2020</b> Finance and Engineering Number: TBD					375.0	375.0
	<b>Program Total:</b>	<b>1,880.5</b>	<b>512.3</b>	<b>2,000.0</b>	<b>2,000.0</b>	<b>2,000.0</b>	<b>6,000.0</b>

**CURRENTLY AVAILABLE FUNDING:**

	Bond 2012 Proceeds	83.7	256.3				
	Certificates of Obligation	1,796.8	256.0				
	<b>Total Currently Available:</b>	<b>1,880.5</b>	<b>512.3</b>				

**RECOMMENDED ADDITIONAL FUNDING:**

	Certificates of Obligation			2,000.0	2,000.0	2,000.0	6,000.0
	<b>Total Funding Source:</b>	<b>1,880.5</b>	<b>512.3</b>	<b>2,000.0</b>	<b>2,000.0</b>	<b>2,000.0</b>	<b>6,000.0</b>

**PROJECT DESCRIPTION**

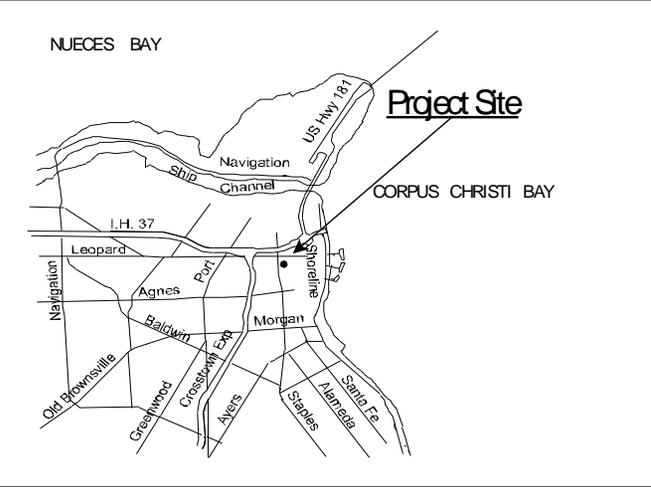
**Bond 2012 Proposition Three: SERVICE CENTER COMPLEX** Sequence #01

**PROJECT TITLE: Central Library Roof Replacement**

**Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objectives 3 and 4.**

**DESCRIPTION:**

This Bond (2012 - Prop 5) project proposed the replacement of the roof at the low flat section of the building and requires modifications to the parapet wall base/counter flashing to eliminate water infiltration. Additional work includes repairs to the stucco wall system at the cupola, gutter and downspouts, and attachment clips, failing and/or missing clay roof tiles. A rainwater collection system is also included. The project went to bid and bids were rejected due to bids received were over budget. Project will be repackaged and rebid.



**PROJECT NOTES:**

Project No: E12121  
 A/E Consultant: Solka Nava Torno  
 Contractor: TBD  
 Award Design: April 2013  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	40.0						40,000
Design/Build Construction		180.0	765.0				945,000
Contingency		10.0	75.0				85,000
Inspection/Other	18.7	11.3	25.0				55,000
<b>TOTAL:</b>	58.7	201.3	865.0				\$ 1,125,000
<b>Source of Funds</b>							
Bond Issue 2012	58.7	201.3					260,000
Certificates of Obligation			865.0				865,000
<b>TOTAL:</b>	58.7	201.3	865.0				\$ 1,125,000

**OPERATIONAL IMPACT:**

Due to the new roof, there could be minor reductions in electrical consumption, but the results would be nominal.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Three: SERVICE CENTER COMPLEX**

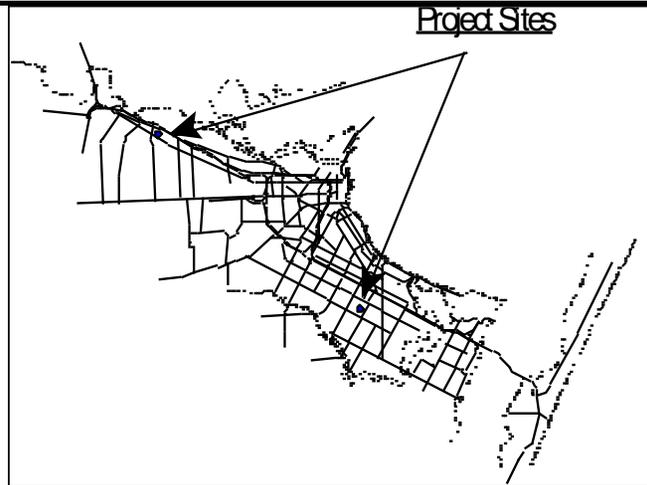
Sequence #02

**PROJECT TITLE: Owen R Hopkins and Garcia Library Roof Repair**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objectives 3 and 4.*

**DESCRIPTION:**

This project proposes the replacement of roof to parapet wall base/counter flashing and expansion joint to eliminate water infiltration. A new storm water collection/roof drain system will be included.



**PROJECT NOTES:**

Project No: E12122  
 A/E Consultant: Solka Nava Torno  
 Contractor: TBD  
 Award Design: April 2013  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amounts in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	13.8						13,800
Design/Build Construction		46.0					46,000
Contingency		4.0					4,000
Inspection/Other	11.2	5.0					16,200
<b>TOTAL:</b>	<b>25.0</b>	<b>55.0</b>					<b>\$ 80,000</b>
<b>Source of Funds</b>							
Bond Issue 2012	25.0	55.0					80,000
<b>TOTAL:</b>	<b>25.0</b>	<b>55.0</b>					<b>\$ 80,000</b>

**OPERATIONAL IMPACT:**

Due to the new roof, there could be minor reductions in electrical consumption, but the results would be nominal.

**PROJECT DESCRIPTION**

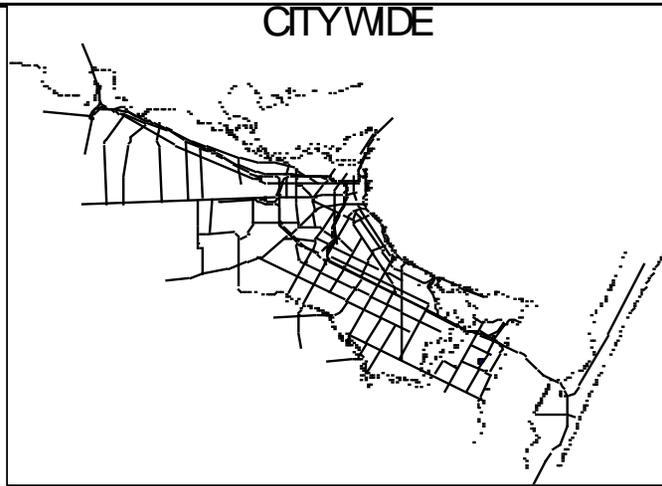
**DEPARTMENT: PUBLIC FACILITIES** Sequence #03

**PROJECT TITLE: Comprehensive Facilities Improvements**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**

This project will provide for the construction of projects identified through the Comprehensive Facilities Master Plan. Work will include structural improvements, roofing, chillers and other capital outlay items to be completed on a yearly basis as funding allows. Currently, the project is programmed at \$2,000,000 per year in new Certificate of Obligation funding.



**PROJECT NOTES:**

Project No: E14062  
 A/E Consultant: Various  
 Contractor: Various  
 Award Design: Various  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	137.3						137,300
Construction	1,581.3	200.0					1,781,300
Contingency							
Inspection/Other	78.2	56.0					134,200
<b>TOTAL:</b>	1,796.8	256.0					<b>\$ 2,052,800</b>
<b>Source of Funds</b>							
Certificates of Obligation	1,796.8	256.0					2,052,800
<b>TOTAL:</b>	1,796.8	256.0					<b>\$ 2,052,800</b>

**OPERATIONAL IMPACT:**

Unable to anticipate impact at this time, but energy efficient repairs should lower operational costs.

**PROJECT DESCRIPTION**

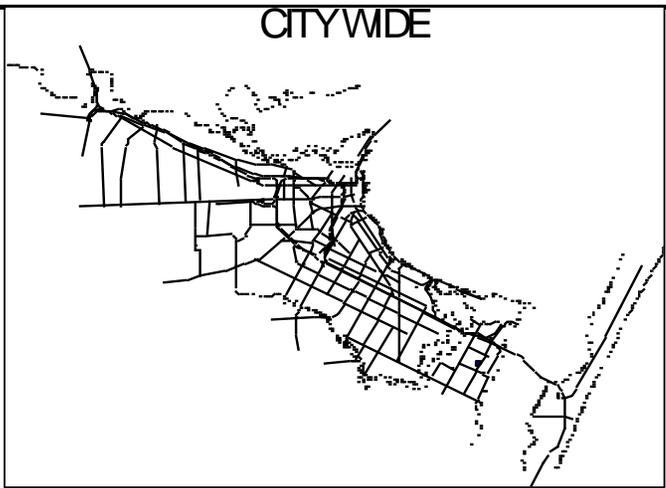
**DEPARTMENT: PUBLIC FACILITIES** Sequence #04

**PROJECT TITLE: Roof Replacement and Upgrade Projects - Fiscal Year 2017-2018**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**  
 Various roof replacement and upgrades to eliminate water penetration in the building interior, with improved insulation for reduced energy demands. Includes approximately twenty (20) facilities City-Wide. Project(s) identified below have been prioritized for completion with Year One funding; other projects can be identified pending funding availability. Other facilities identified have been prioritized for Year Two and Year Three funding. Year One projects:

Oak Park Recreation Center	\$	312.0
Oveal Williams Senior Center	\$	312.0
City Service Center Warehouse	\$	511.0



PROJECT NOTES:	
Project No:	TBD
A/E Consultant:	Various
Contractor:	Various
Award Design:	Various
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			15.0				15,000
Construction			1,000.0				1,000,000
Contingency			90.0				90,000
Inspection/Other			30.0				30,000
<b>TOTAL:</b>			<b>1,135.0</b>				<b>\$ 1,135,000</b>
<b>Source of Funds</b>							
Certificates of Obligation			1,135.0				1,135,000
<b>TOTAL:</b>			<b>1,135.0</b>				<b>\$ 1,135,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

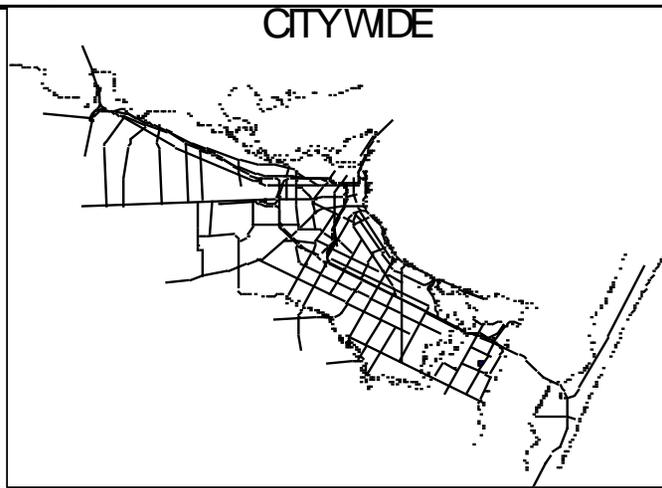
**DEPARTMENT: PUBLIC FACILITIES** Sequence #05

**PROJECT TITLE: Roof Replacement and Upgrade Projects - Fiscal Year 2018 - 2019**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**  
 Various roof replacement and upgrades to eliminate water penetration in the building interior, with improved insulation for reduced energy demands. Includes approximately twenty (20) facilities City-Wide. Project(s) identified below have been prioritized for completion with Year Two funding; other projects can be identified pending funding availability. Other facilities identified have been prioritized for Year Three funding. Year Two projects:

Zavala Senior Center	\$ 250.0
Park Operations Bldg	\$ 300.0
Fire Station 16	\$ 300.0
Fire Station 7	\$ 200.0



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	Various
Contractor:	Various
Award Design:	Various
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				100.0			100,000
Construction				800.0			800,000
Contingency				80.0			80,000
Inspection/Other				70.0			70,000
<b>TOTAL:</b>				1,050.0			<b>\$ 1,050,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Certificates of Obligation				1,050.0			1,050,000
<b>TOTAL:</b>				1,050.0			<b>\$ 1,050,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

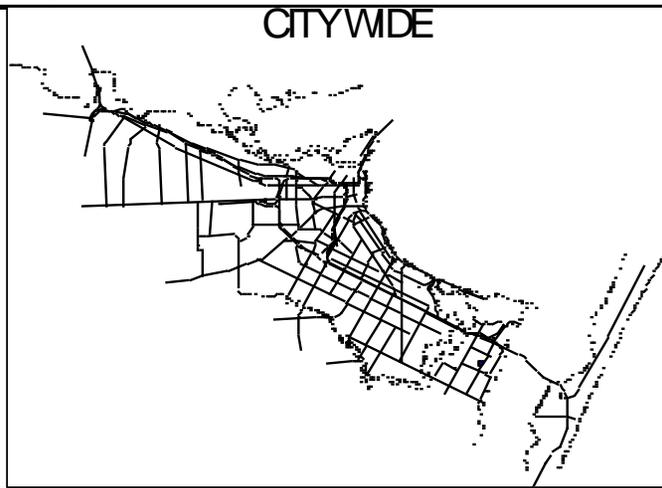
**DEPARTMENT: PUBLIC FACILITIES** Sequence #06

**PROJECT TITLE: Roof Replacement and Upgrade Projects - Fiscal Year 2019 - 2020**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**  
 Various roof replacement and upgrades to eliminate water penetration in the building interior, with improved insulation for reduced energy demands. Includes approximately twenty (20) facilities City-Wide. Project(s) identified below have been prioritized for completion with Year Three funding; other projects can be identified pending funding availability. Year Three projects:

CCPD Headquarters	\$ 800.0
Solid Waste Administration Bldg	\$ 250.0
Various Fire Stations	\$ 200.0



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	Various
Contractor:	Various
Award Design:	Various
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					50.0		50,000
Construction					1,000.0		1,000,000
Contingency					100.0		100,000
Inspection/Other					100.0		100,000
<b>TOTAL:</b>					1,250.0		<b>\$ 1,250,000</b>
<b>Source of Funds</b>							
Certificates of Obligation					1,250.0		1,250,000
<b>TOTAL:</b>					1,250.0		<b>\$ 1,250,000</b>

**OPERATIONAL IMPACT:**

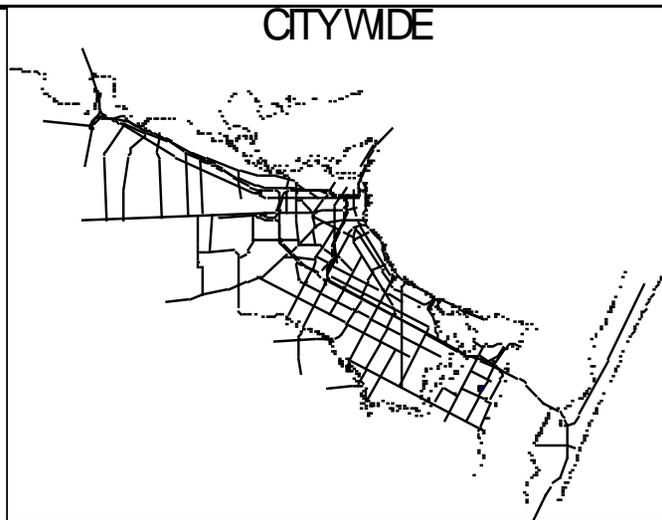
**PROJECT DESCRIPTION**

**DEPARTMENT: PUBLIC FACILITIES** Sequence #07

**PROJECT TITLE: Mechanical, Electrical and Fire Alarm Upgrade Projects - Fiscal Year 2018 - 2019**

**Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.**

**DESCRIPTION:**  
 Various plumbing, HVAC and electrical upgrades to improve operational support to reduce maintenance and energy as required. Includes approximately twenty (20) facilities City-Wide. The feasibility report will further define the scope of work and costs. Projects identified; other projects can be identified pending funding availability, for Fiscal Year 2 include:  
 Solid Waste Administration Bldg  
 Science Museum  
 Fire Stations 8, 11, 12, 13 and  
 Old No. 5



**PROJECT NOTES:**

Project No: TBD

A/E Consultant: Various

Contractor: Various

Award Design: Various

Award Construction: On-Going

Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				40.0			40,000
Construction				600.0			600,000
Contingency				40.0			40,000
Inspection/Other				20.0			20,000
<b>TOTAL:</b>				700.0			<b>\$ 700,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Certificates of Obligation				700.0			700,000
<b>TOTAL:</b>				700.0			<b>\$ 700,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

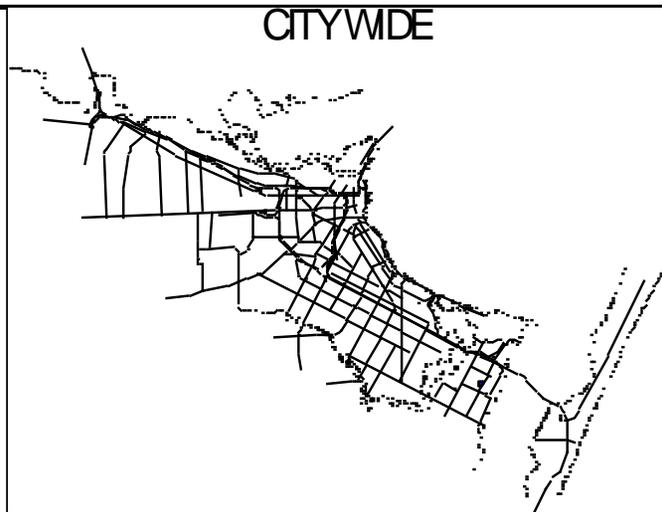
**DEPARTMENT:** Public Facilities Sequence #08

**PROJECT TITLE:** Mechanical, Electrical and Fire Alarm Upgrade Projects - Fiscal Year 2019 - 2020

**Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.**

**DESCRIPTION:**  
 Various plumbing, HVAC and electrical upgrades to improve operational support to reduce maintenance and energy as required. Includes approximately twenty (20) facilities City-Wide. The feasibility report will further define the scope of work and costs. Projects identified; other projects can be identified pending funding availability, for Fiscal Year 3 include:

- |                  |              |          |         |         |
|------------------|--------------|----------|---------|---------|
| Fleet Admin Bldg | Owen         | Hopkins, | Garcia, | Neyland |
| Science Museum   | Libraries    |          |         |         |
| Water Garden     | Health Dept. |          |         |         |
| Oso Pool         |              |          |         |         |



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	Various
Contractor:	Various
Award Design:	Various
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					30.0		30,000
Construction					300.0		300,000
Contingency					25.0		25,000
Inspection/Other					20.0		20,000
<b>TOTAL:</b>					375.0		<b>\$ 375,000</b>
<b>Source of Funds</b>							
Certificates of Obligation					375.0		375,000
<b>TOTAL:</b>					375.0		<b>\$ 375,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

**DEPARTMENT: PUBLIC FACILITIES** Sequence #09

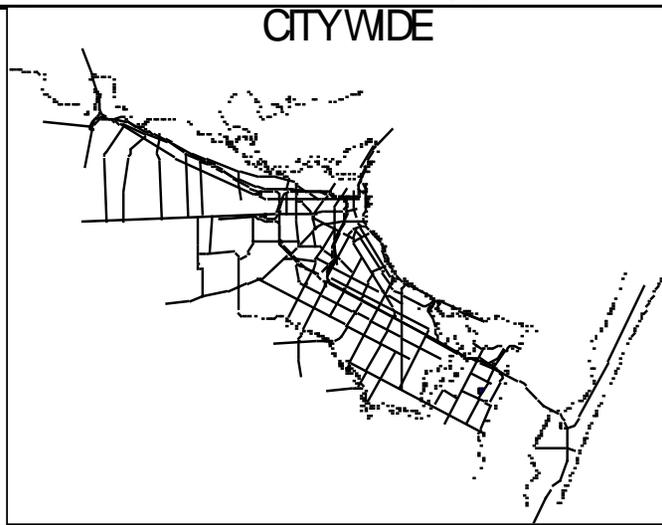
**PROJECT TITLE: Public Facilities Special - Including Elevator and Structural Upgrades - Fiscal Year 2018 - 2019**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**

Various ADA improvements to improve services to the local community and city staff. Includes approximately eight (8) facilities City-Wide at senior centers, libraries and City Hall. The feasibility report will further define the scope of work and costs. In addition to various elevator upgrades to improve safe operation and maintenance of the elevators and any identified structural upgrades with compliancy to current code as required. Additional projects can be identified pending funding availability.

Fire Stations 8 & 11 - Floors



**PROJECT NOTES:**

Project No: TBD  
 A/E Consultant: Various  
 Contractor: Various  
 Award Design: Various  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				10.0			10,000
Construction				200.0			200,000
Contingency				20.0			20,000
Inspection/Other				20.0			20,000
<b>TOTAL:</b>				250.0			<b>\$ 250,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Certificates of Obligation				250.0			250,000
<b>TOTAL:</b>				250.0			<b>\$ 250,000</b>

**OPERATIONAL IMPACT:**

**PROJECT DESCRIPTION**

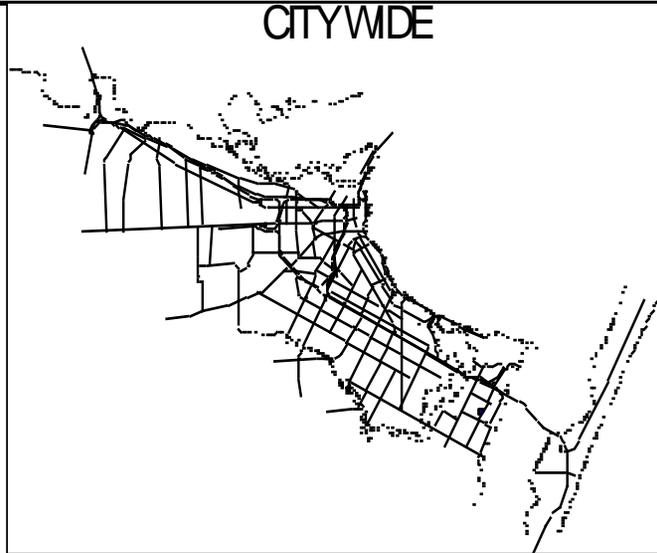
**DEPARTMENT: PUBLIC FACILITIES** Sequence #10

**PROJECT TITLE: SPECIAL - INCLUDING ELEVATOR AND STRUCTURAL UPGRADES - FISCAL YEAR 2019-2020**

*Consistency with Comprehensive Plan; Policy Statements, Public Facilities Objective 3.*

**DESCRIPTION:**  
 Various ADA improvements to improve services to the local community and city staff. Includes approximately eight (8) facilities City-Wide at senior centers, libraries and City Hall. The feasibility report will further define the scope of work and costs. In addition to various elevator upgrades to improve safe operation and maintenance of the elevators and any identified structural upgrades with compliancy to current code as required. Additional projects can be identified pending funding availability.

Fire Stations 10, 9 & 12 - Floors



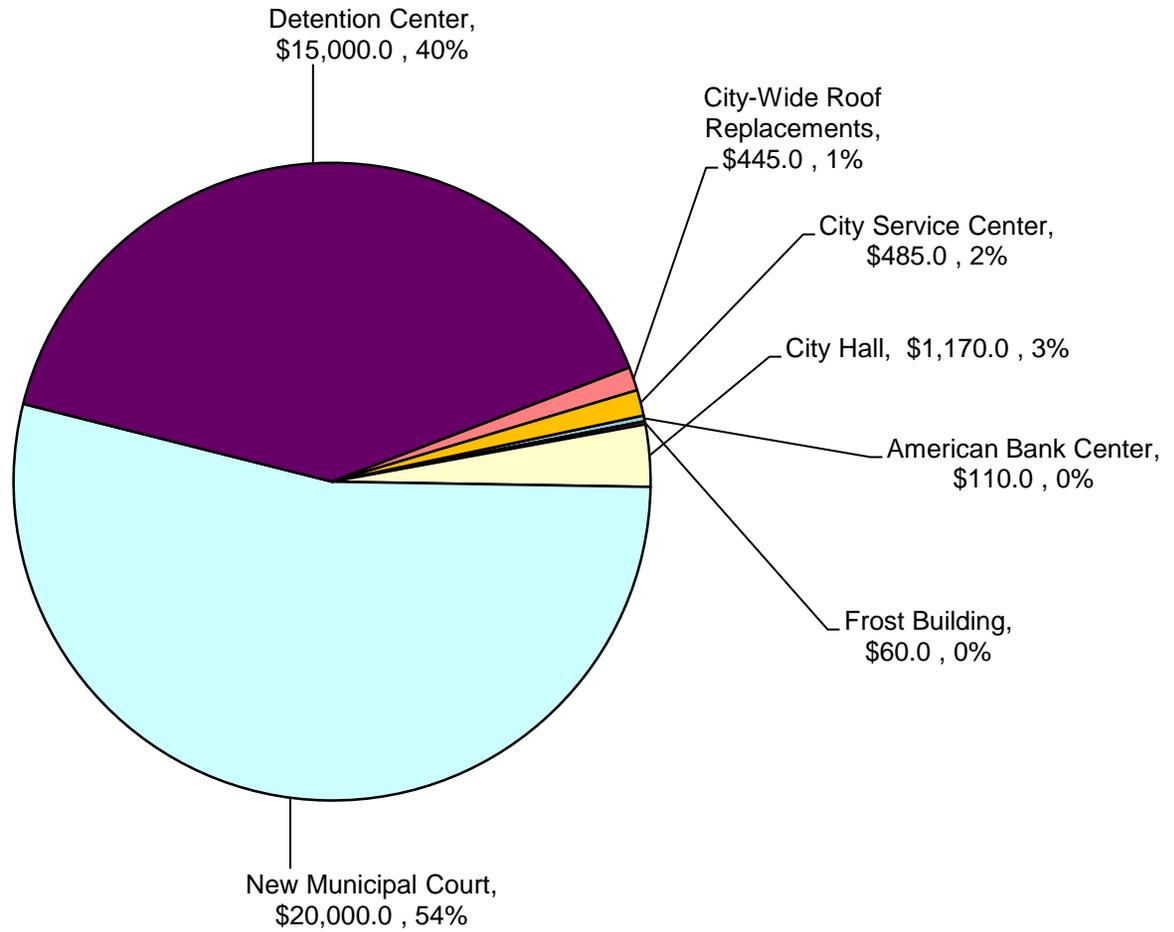
PROJECT NOTES:	
Project No:	TBD
A/E Consultant:	Various
Contractor:	Various
Award Design:	Various
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					30.0		30,000
Construction					300.0		300,000
Contingency					30.0		30,000
Inspection/Other					15.0		15,000
<b>TOTAL:</b>					375.0		<b>\$ 375,000.00</b>
Source of Funds							
Certificates of Obligation					375.0		375,000
<b>TOTAL:</b>					375.0		<b>\$ 375,000</b>

**OPERATIONAL IMPACT:**

**Public Facilities**  
**Long-Range CIP: \$37,270.0**  
**(Amounts in 000's)**



**PUBLIC FACILITIES  
LONG-RANGE CIP**

**MUSEUM**

- 1 Expand and Improve Watergarden Accessible Driveway (SEA District) TBD  
To improve the accessibility and visibility of the Museum of Science and History and the Art Museum with its new addition, the team of Sasaki/Gignac have recommended the installation of a new circular roadway in the Water garden. This project was also recommended by the Museum's consultant, Ralph Applebaum and Associates, in their Visualization Concept study.
  
- 2 Acquisition of the Corps of Engineers Site near Science & History Museum TBD  
This project proposes to acquire the current Corps of Engineers property to allow for private development in the Watergarden area consistent with Sasaki/Gignac conceptual plan of October 2006.

**CITY WIDE FACILITIES ROOF REPLACEMENTS**

- 3 Ben Garza Gym Roof Replacement \$150,000  
A new and improved roof is necessary to protect the Ben Garza Gymnasium. The existing roof is causing water damage internally and externally and if not corrected water infiltration will eventually lead to more serious conditions such as mold, mildew and damage to equipment.
  
- 4 Replace Roofs and Other Capital Repairs to City Senior Centers - City Wide TBD  
This project will consist of a phased roof replacement on all City Senior Center Facilities city-wide. The existing roofs are approaching or are beyond their intended life and replacement is necessary to stop further deterioration of the facilities.
  
- 5 Replace Roofs and Other Capital Repairs to City Recreation Centers - City Wide TBD  
This project will consist of a phased roof replacement on all City Recreation Facilities city-wide. The existing roofs are approaching or are beyond their intended life and replacement is necessary to stop further deterioration of the facilities.
  
- 6 New Roof and Expansion at Neyland Library \$75,000  
A new and improved roof is necessary to protect the Neyland Library. The existing roof is causing water damage internally and if not corrected water infiltration will eventually lead to more serious conditions such as mold, mildew and damage to equipment.
  
- 7 New Roof at O.N. Stevens Water Treatment Plant \$100,000  
A new and improved roof is necessary to protect the ON Stevens Water Treatment Plant Chemical Building. The existing roof is causing water damage internally and externally and if not corrected water infiltration will eventually lead to more serious conditions such as mold, mildew and damage to city equipment.
  
- 8 New Roof at Allison Water Treatment Plant \$120,000  
A new and improved roof is necessary to protect the Allison Wastewater Treatment Plant Main Building. The existing roof is causing water damage internally and externally and if not corrected water infiltration will eventually lead to more serious conditions such as mold, mildew and damage to city equipment.
  
- 9 Replace City Hall Roof Systems \$350,000  
Minor leaks have developed over the past year in various locations. Breaks in roof material permit water to migrate through cracks in concrete roof structure into building spaces. This project would consist of application of roofing system to restore water tight integrity.

**PUBLIC FACILITIES  
LONG-RANGE CIP**

**CITY HALL**

- |    |  |                  |
|----|--|------------------|
| 10 | Conduct Electrical System Survey/Load Analysis at City Hall  | <u>\$95,000</u>  |
|    | Extensive alterations and remodels of the facility require load analysis, circuit tracing, panel identification and labeling throughout the facility to ensure compliance with fire and safety codes.  |                  |
| 11 | Upgrade City Hall Main Electrical Control Banks  | <u>\$350,000</u> |
|    | The original installation is now obsolescent technology and experiences decreased reliability. This project consists of upgrading breakers, wiring and indicators on panels.   |                  |
| 12 | Upgrade City Hall Data Center HVAC System  | <u>\$375,000</u> |
|    | The current system is an 18-year-old 50-Ton McQuay compressor providing chilled water to four closed circuit air handlers. Extensive additions of servers and ancillary equipment over the years has resulted in heat loads being generated that exceed the capacity of the system, causing the compressor to run both sides continually, while not achieving set point temperatures required to support servers. Planned additions to server installations will further exacerbate current conditions and result in deterioration of equipment installed in the space. This project will require an extensive thermal load survey (current and planned) by mechanical engineers, followed by capacity upgrades to compressor unit and air handling units. |                  |

**CITY SERVICE CENTER**

- |    |   |            |
|----|---|------------|
| 13 | Correct Structural Deficiencies at City Service Center Maintenance Building 3B  | <u>TBD</u> |
|    | Foundation settlement has occurred along the perimeter suspended foundation beam and precast panel at the City's Service Center. This has caused an interior Concrete Masonry Unit (CMU) wall not resting on a foundation beam to drop and crack approximately two-inches at the worst location. It appears the six-inch slab is not doweled to the pier supported precast wall foundation. Foundation should have been constructed on a suspended concrete beam on piers or at least had the slab on grade doweled to the perimeter beam. There are two potential solutions: |            |
|    | 1. Remove concrete slab on grade foundation and intermediate CMU walls. Re-build as a suspended pier and beam foundation and rebuild CMU walls.   |            |
|    | 2. Remove concrete slab on grade foundation and intermediate CMU walls. Re-build slab on grade foundation doweled to beams with suspended interior grade beam on piers under CMU wall, and rebuild CMU walls.   |            |

**PUBLIC FACILITIES  
LONG-RANGE CIP**

**CITY SERVICE CENTER (continued)**

- 14 Construct New Heavy Duty Vehicle Wash Station at City Service Center \$85,000  
A dual loop above-ground high pressure fresh water spray facility is necessary to permit drive-thru cleaning of City Fleet Vehicles.

**AMERICAN BANK CENTER**

- 15 Expansion of Maintenance Shop Structure at American Bank Center \$110,000  
The Building Maintenance Shop needs to be expanded the equivalent of four equipment bays parallel to the Storm Water Ditch (West Side) to accommodate electrical repair and plumbing trades. This will also free up floor space to permit effective use of carpenter shop equipment. The current facility is a 30-year-old structure previously used to store equipment.

**FROST BUILDING**

- 16 Lighting Control Upgrades at Frost Building First Floor \$60,000  
Electrical service has now become the largest direct operational cost for major City facilities. This project would install composite (infrared & motion) detectors to control lighting in unoccupied offices, meeting spaces, and storage areas. Work can be sequenced by zone/floor and in-house electricians can be used for installation.
- 17 Install Secondary Emergency Generator at Frost Building TBD  
Primary emergency generator & switchgear is located at ground level exterior to the facility. Severe flooding, missile hazards, or fuel shortages will render unit unserviceable and jeopardize Emergency Operations Center operations. A recommended secondary unit would be placed in the 4th Floor Mechanical Room (previous location of original 2-cylinder unit used by Frost Bank), powered by natural gas (no fuel storage required & reliable source) using turbine or diesel prime mover.

**HEAVY EQUIPMENT VEHICLE SHOP**

- 18 Expand Fleet Heavy Equipment Building at City Service Center TBD  
The existing space needs to be expanded to accommodate an additional six (6) heavy equipment bays for large vehicles and construction equipment. Three new bays would include above ground heavy duty vehicle lifts, one would include below surface service pit, and the other two would include at surface level bays.
- 19 Construct Exterior Canopy for Fleet Heavy Equipment Building at City Service Center \$75,000  
A cover is needed to provide the mechanics shelter from sun and rain and protect the equipment during vehicle maintenance.

**PUBLIC FACILITIES  
LONG-RANGE CIP**

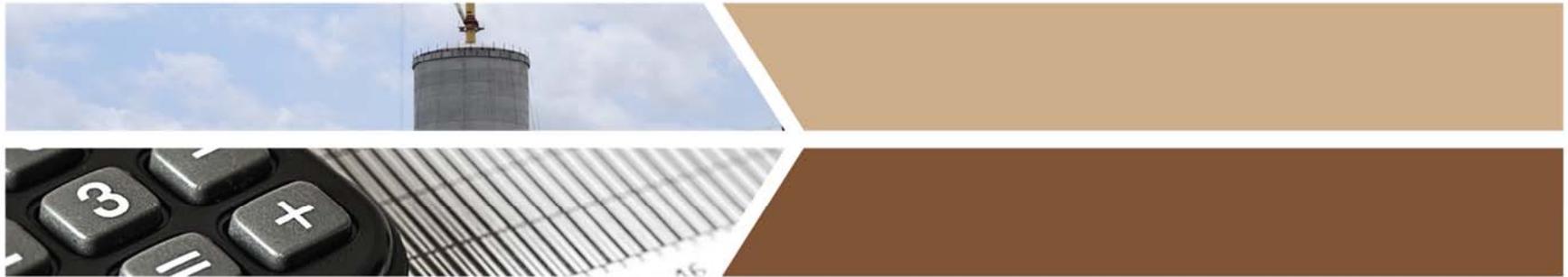
**SOLID WASTE BUILDING**

- 20 Upgrade HVAC System at Solid Waste and Street Building at City Service Center \$325,000  
This building currently uses spot system (multiple rooftop compressors) that only covers small zones within building. Air flows are uneven and high maintenance is required due to age and location of roof units. This project would replace the existing system with a single compressor and dual air handlers (one each side of building) with centralized control/monitoring system.

**MUNICIPAL COURT**

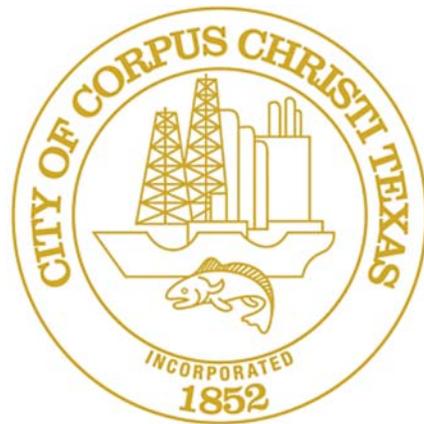
- 21 New Municipal Court Facilities \$20,000,000  
Municipal Court facilities are located in the Police Department Building at 127 N. Chaparral. The current facility has limited courtroom, office, and parking space. This proposal would include a new Municipal Court Building to include five courtrooms, the Juvenile Assessment Center, the Environmental Court and an operationally efficient lobby area to better serve the public. The facility would be constructed in the City Hall area on property already owned by the City. The project scope and cost estimates are part of the 2016 City of Corpus Christi New Municipal Court Facilities Report by the National Center for State Courts.
- 21 Detention Center \$15,000,000  
The City's Detention Center was created on short notice on the first floor of a high rise office building due to a last minute change in intergovernmental relationship between the City and the County concerning magistration of arrestees. The City would like to provide a purpose-built detention facility in order to fully provide for the proper housing and safety of arrestees as well as the safety of the City personnel who work in the facility. Improvements such as a proper sally-port for the transfer of arrestees, as well as full ADA compliance would be part of these improvements. The project scope and cost estimates are part of the 2016 City of Corpus Christi Detention Center Needs by DLR Group.

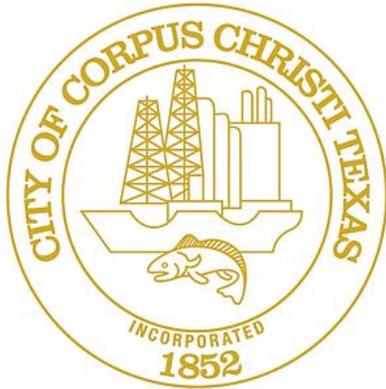
**TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:** **\$37,270,000**



# PUBLIC HEALTH

Obligation to the Future





# **CITY OF CORPUS CHRISTI PUBLIC HEALTH & SAFETY PROGRAM**

This year's Public Health & Safety program includes several projects to support landfill expansion and prevent dangerous conditions and permit violations. The Cefé Valenzuela landfill covers 2,273.59 acres and has an expected capacity life of 100 years. The landfill permit specifies how the City must safely store, process, and dispose of waste materials in accordance with the rules of the Texas Commission on Environmental Quality (TCEQ) and the laws of the State of Texas. The projects listed herein include planning for future waste disposal needs and minimizing costs through the latest technological advances.

Several projects to protect the integrity of the downtown flood protection system have been included in both the short and long range Public Health and Safety capital program. These projects utilize Type A Board Sales Tax and must be approved by the Corpus Christi Business and Job Development Corporation board during the year, and then presented to City Council for approval. These projects were developed to reinforce the bulkheads, breakwater, flood walls and Salt Flats levee that are all integral components of the downtown flood protection system. Additional work is planned at Kinney and Power Street Pump Stations to ensure these two pump stations have the reliability and capacity to remove storm water from the area during a significant storm event.

New projects to support Police and Fire facilities infrastructure to replace or repair roofs, floors and communication systems are also included. The first phase of the Police Public Safety Communication project is to purchase core components to replace the current regional 800 Mhz public safety radio system which will reach end of serviceable life in 2020. New equipment will provide improved communication capabilities and resources for public safety responders. This includes replacement of basic radio system infrastructure and upgrades to radio tower sites. There are no replacement radios included in this proposal as a phased migration allows users to replace radios not compatible with the new system over several years.

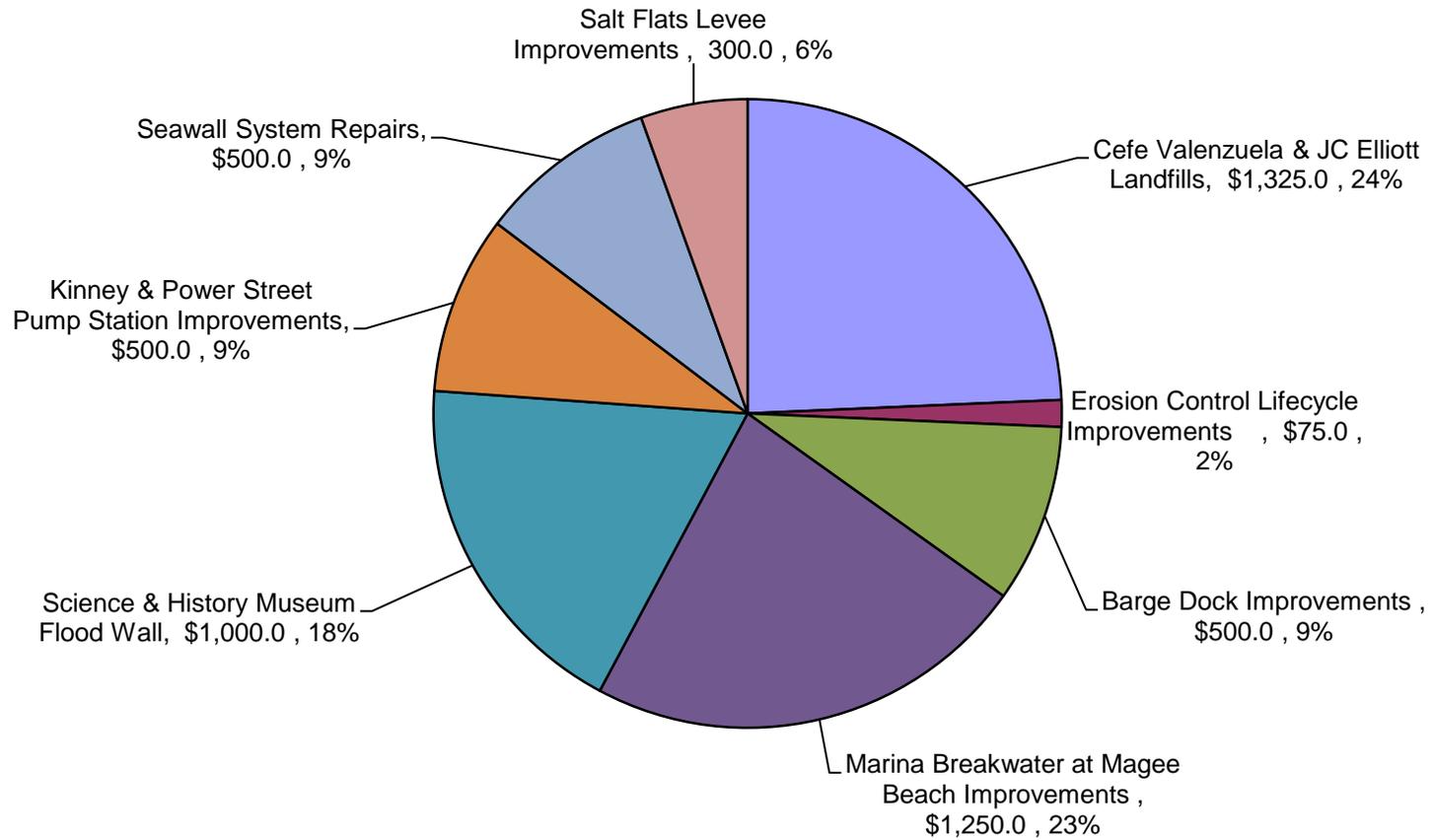
Included in the Public Health & Safety program, in years 2 and 3, are projects to be considered for a possible future bond election in 2018. These projects were chosen based on greatest need, momentum of previous bond projects, and ability to maximize funding with other available sources.

A recap of the budgeted expenditures includes:

	<b>YEAR ONE 2017 – 2018</b>	YEAR TWO 2018 – 2019	YEAR THREE 2019 – 2020
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 5,450,000</b>	\$ 19,300,000	\$ 15,800,000
 <b>CURRENT AVAILABLE FUNDING:</b>			
 <b>RECOMMENDED ADDITIONAL FUNDING:</b>			
Type A Sales Tax Proceeds	<b>\$ 4,050,000</b>	\$ 7,800,000	\$ 8,200,000
New Certificates of Obligation	<b>\$ 1,400,000</b>	\$ 11,200,000	\$ 4,500,000
Future Bond Election	<b>\$ 0</b>	\$ 300,000	\$ 3,100,000
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 5,450,000</b>	\$ 19,300,000	\$ 15,800,000

**All other required funding was budgeted and received in previous years' budgets as listed on the Public Health & Safety Short Range Summary Sheet.**

**Public Health & Safety  
Annual CIP: \$5,450  
(Amounts in 000's)**



**PUBLIC HEALTH AND SAFETY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
PH 01	<b>Vehicle Impound Yard, Phase 2</b> Finance and Engineering Number: E12126	181.4	662.7				
PH 02	<b>Public Safety Communication System Replacement</b> Finance and Engineering Number: TBD				200.0	2,400.0	<b>2,600.0</b>
PH 03	<b>Flour Bluff Police Sub-Station Alteration / Expansion</b> Finance and Engineering Number: TBD				100.0	700.0	<b>800.0</b>
PH 04	<b>J.C. Elliott Landfill New Office Building</b> Finance and Engineering Number: E11060	227.1	1,630.0				
PH 05	<b>J.C. Elliott Landfill Leachate Collection System Upgrade</b> Finance and Engineering Number: E16310			<b>300.0</b>	1,500.0		<b>1,800.0</b>
PH 06	<b>J.C. Elliott Transfer Station Pavement Improvements</b> Finance and Engineering Number: TBD			<b>100.0</b>	1,000.0		<b>1,100.0</b>
PH 07	<b>Cefé Valenzuela Landfill Haul Road Improvements</b> Finance and Engineering Number: TBD			<b>200.0</b>	2,000.0		<b>2,200.0</b>
PH 08	<b>Cefé Valenzuela Landfill Disposal Cells Construction 2A and 2B</b> Finance and Engineering Number: E16311			<b>25.0</b>	500.0	4,500.0	<b>5,025.0</b>

**PUBLIC HEALTH AND SAFETY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
PH 09	<b>Cefé Valenzuela Landfill Disposal Cells Interim Cover - Cells 3D, 4A and 4B</b> Finance and Engineering Number: E11061	548.9	2.9	<b>350.0</b>	3,500.0		<b>3,850.0</b>
PH 10	<b>Erosion Control Lifecycle Improvements</b> Finance and Engineering Number: TBD			<b>75.0</b>	750.0		<b>825.0</b>
PH 11	<b>Cefé Valenzuela Landfill Liquids (Leachate) Management System</b> Finance and Engineering Number: E11059	50.3		<b>50.0</b>	950.0		<b>1,000.0</b>
PH 12	<b>Cefé Valenzuela Landfill Gas Collection and Control System (GCCS)</b> Finance and Engineering Number: E16289	1,330.5	714.4				
PH 13	<b>Cefé Valenzuela Landfill Gas Flare for Gas Collection and Control System</b> Finance and Engineering Number: E16309	271.5	228.5				
PH 14	<b>Cefé Valenzuela Landfill Water Control for Fire Protection and Irrigation</b> Finance and Engineering Number: TBD			<b>50.0</b>	500.0		<b>550.0</b>
PH 15	<b>Solid Waste Small Construction Engineering</b> Finance and Engineering Number: E15103			<b>250.0</b>	500.0		<b>750.0</b>
PH 16	<b>Seawall Capital Repairs</b> Finance and Engineering Number: E11090		200.0	<b>500.0</b>	1,000.0	200.0	<b>1,700.0</b>
PH 17	<b>Barge Dock Improvements</b> Finance and Engineering Number: E03426	663.1	500.0	<b>500.0</b>			<b>500.0</b>

**PUBLIC HEALTH AND SAFETY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
PH 18	<b>United States Army Corps of Engineers Bulkhead Repairs</b> Finance and Engineering Number: E16317				500.0	5,000.0	<b>5,500.0</b>
PH 19	<b>Salt Flats Levee Improvements</b> Finance Number: E12070 / E03428 Engineering Number: E12070 / E03428	551.5	1,000.0	<b>300.0</b>	500.0		<b>800.0</b>
PH 20	<b>Marina Breakwater at Magee Beach Improvements</b> Finance and Engineering Number: E16318	23.3	500.0	<b>1,250.0</b>	2,000.0		<b>3,250.0</b>
PH 21	<b>McGee Beach Nourishment/Boat Basin Dredging</b> Finance and Engineering Number: E16321		200.0		1,000.0		<b>1,000.0</b>
PH 22	<b>Science &amp; History Museum Flood Wall</b> Finance and Engineering Number: E16319		500.0	<b>1,000.0</b>	1,000.0		<b>2,000.0</b>
PH 23	<b>Kinney &amp; Power Street Pump Station Improvements</b> Finance and Engineering Number: E16320		500.0	<b>500.0</b>	1,800.0	3,000.0	<b>5,300.0</b>
	<b>Program Total:</b>	<b>3,847.6</b>	<b>6,638.5</b>	<b>5,450.0</b>	<b>19,300.0</b>	<b>15,800.0</b>	<b>40,550.0</b>

**PUBLIC HEALTH AND SAFETY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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**CURRENTLY AVAILABLE FUNDING:**

	<b>Bond 2012 Proceeds</b>	<b>181.4</b>	<b>524.1</b>				
	<b>Sales Tax Proceeds</b>	<b>1,237.9</b>	<b>3,400.0</b>				
	<b>Land Use Proceeds (ROW)</b>		<b>78.6</b>				
	<b>Police Grant</b>		<b>60.0</b>				
	<b>Existing Certificates of Obligation</b>	<b>2,428.3</b>	<b>2,575.8</b>				
	<b>Total Currently Available:</b>	<b>3,847.6</b>	<b>6,638.5</b>				

**RECOMMENDED ADDITIONAL FUNDING;**

	<b>Sales Tax Proceeds</b>			<b>4,050.0</b>	<b>7,800.0</b>	<b>8,200.0</b>	<b>20,050.0</b>
	<b>New Certificates of Obligation</b>			<b>1,400.0</b>	<b>11,200.0</b>	<b>4,500.0</b>	<b>17,100.0</b>
	<b>Future Bond Election</b>				<b>300.0</b>	<b>3,100.0</b>	<b>3,400.0</b>
	<b>Total Recommended Additional Funding:</b>			<b>5,450.0</b>	<b>19,300.0</b>	<b>15,800.0</b>	<b>40,550.0</b>
	<b>Total Funding Source:</b>	<b>3,847.6</b>	<b>6,638.5</b>	<b>5,450.0</b>	<b>19,300.0</b>	<b>15,800.0</b>	<b>40,550.0</b>

**PROJECT DESCRIPTION**

**Bond 2012 Proposition Seven: PUBLIC SAFETY IMPROVEMENTS**

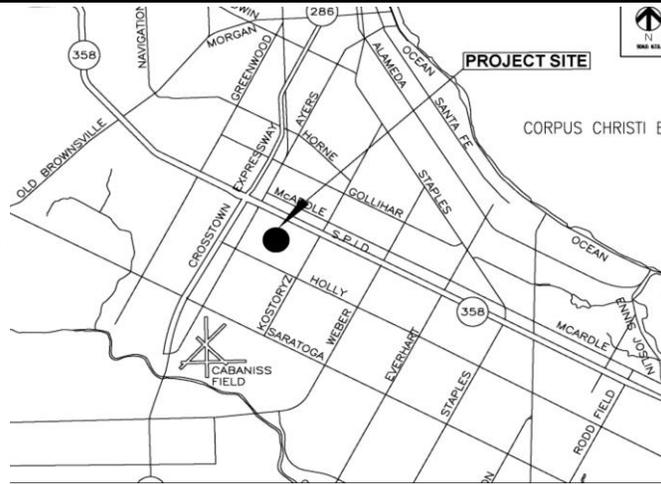
Sequence #01

**PROJECT TITLE: Vehicle Impound Yard and Garage, Phase 2**

**Consistency with Comprehensive Plan; Policy Statements pp. 48: 3 & 6; 52**

**DESCRIPTION:**

This Bond 2012 project proposes expansion of current Vehicle Impound Lot into the adjacent one acre of land owned by City. The expansion would include a 3,000 square foot forensics garage for investigative work on vehicles and a holding area for vehicles involved in crime scenes. During preliminary design, it was determined the proposed location exceeded available funds for unanticipated utility work and required permitting through Texas Commission on Environmental Quality (TCEQ). Therefore, an alternate site was proposed adjacent to City's Service Center on Civitan Drive.



**PROJECT NOTES:**

Project No: E12126  
 A/E Consultant: Freese Nichols, Inc.  
 Contractor: TBD  
 Award Design: July 2016  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	125.1						125,100
Construction		560.0					560,000
Contingency		50.0					50,000
Inspection/Other	56.3	52.7					109,000
<b>TOTAL:</b>	<b>181.4</b>	<b>662.7</b>					<b>\$ 844,100</b>
Source of Funds							
Bond Issue 2012	181.4	524.1					705,500
Land Use (ROW)		78.6					78,600
Police Grant		60.0					60,000
<b>TOTAL:</b>	<b>181.4</b>	<b>662.7</b>					<b>\$ 844,100</b>

**OPERATIONAL IMPACT:**

The operational budget impact cannot be determined at this time, but will be developed during final design of project.

**PROJECT DESCRIPTION**

**DEPARTMENT: POLICE**

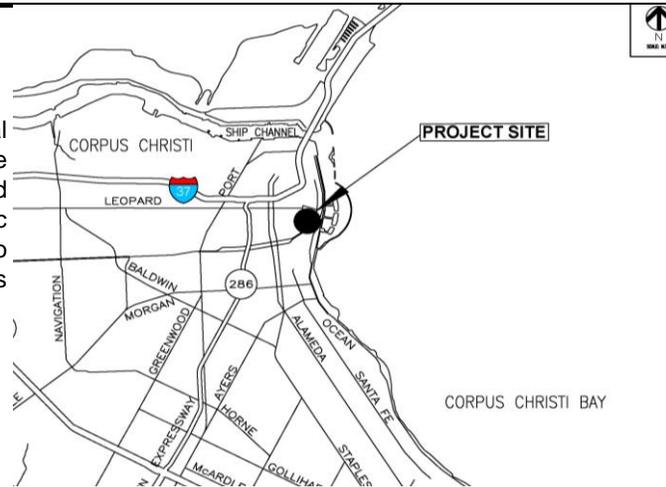
Sequence #02

**PROJECT TITLE: Public Safety Communication System Replacement**

*Consistent with Comprehensive Plan*

**DESCRIPTION:**

The first phase is to purchase core components to replace current regional 800 Mhz public safety radio system which will reach end of life in 2020. The new equipment will provide improved communication capabilities and resources for public safety responders. This includes replacement of basic radio system infrastructure and upgrades to radio tower sites. There are no replacement radios included in this proposal as a phased migration allows users to replace radios not compatible with P25.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				180.0			180,000
Construction					2,100.0		2,100,000
Contingency					200.0		200,000
Inspection/Other				20.0	100.0		120,000
<b>TOTAL:</b>				200.0	2,400.0		<b>\$ 2,600,000</b>
Source of Funds							
Future Bond Election				200.0	2,400.0		2,600,000
<b>TOTAL:</b>				200.0	2,400.0		<b>\$ 2,600,000</b>

**OPERATIONAL IMPACT:**

The operational budget impact cannot be determined at this time, but will be developed during final design of project.

## PROJECT DESCRIPTION

**DEPARTMENT: POLICE**

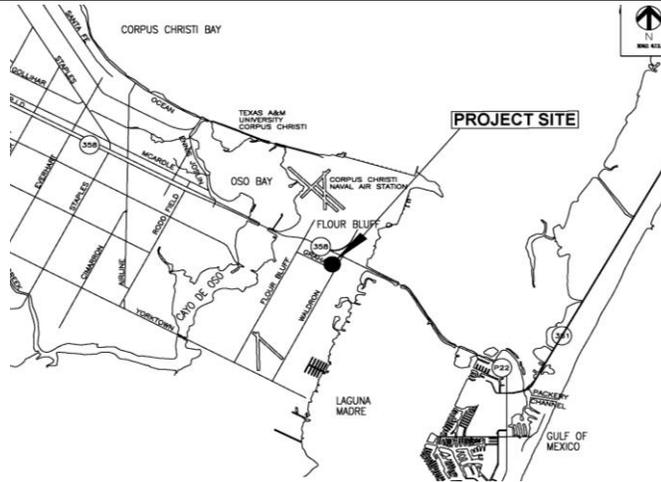
Sequence #03

### PROJECT TITLE: Flour Bluff Police Sub-Station Alterations/Expansion

*Consistent with Comprehensive Plan*

**DESCRIPTION:**

This project provides for renovation of current substation which serves as an assembly point for sixty-five plus officers to report for their tour of duty. This substation serves the Flour Bluff, Padre Island, and Southside areas of town. Renovations are needed to provide office space for shift briefings, offices for supervisors and storage areas for police equipment.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	FY 2019
Award Construction:	FY 2020
Anticipated Completion:	FY 2020

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				80.0			80,000
Construction					600.0		600,000
Contingency					60.0		60,000
Inspection/Other				20.0	40.0		60,000
<b>TOTAL:</b>				100.0	700.0		<b>\$ 800,000</b>
<b>Source of Funds</b>							
Future Bond Election				100.0	700.0		800,000
<b>TOTAL:</b>				100.0	700.0		<b>\$ 800,000</b>

**OPERATIONAL IMPACT:**

The operational budget impact cannot be determined at this time, but will be developed during final design of project.

## PROJECT DESCRIPTION

DEPARTMENT: **Public Health and Safety**

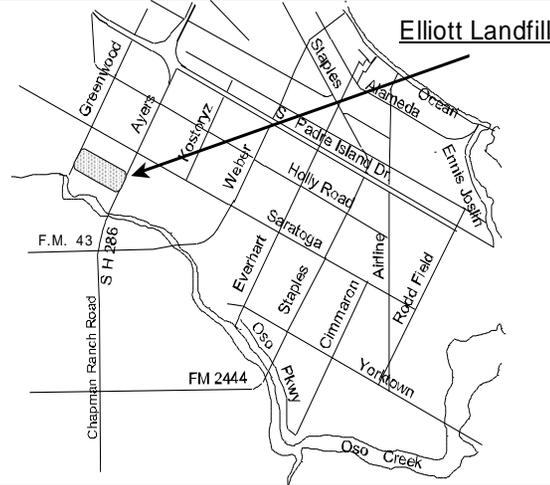
Sequence #04

**PROJECT TITLE: J.C. Elliott Landfill New Office Building**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

This project will replace existing office building which was acquired as a used manufactured building. The structure has reached end of serviceable life, does not meet current city code or ADA and requires constant maintenance. The new office is necessary to support landfill activity and employees at the J.C. Elliott Citizens Collection Center, Solid Waste Transfer Station, and Scale House.



**PROJECT NOTES:**

Project No: E11060  
 Contractor: FMAC  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	133.3						133,300
Construction		1,500.0					1,500,000
Contingency							
Inspection/Other	93.8	130.0					223,800
<b>TOTAL:</b>	<b>227.1</b>	<b>1,630.0</b>					<b>\$ 1,857,100</b>
Source of Funds							
Certificates of Obligation	227.1	1,630.0					1,857,100
<b>TOTAL:</b>	<b>227.1</b>	<b>1,630.0</b>					<b>\$ 1,857,100</b>

**OPERATIONAL IMPACT:**

The operational impact of this project will reduce operational repair and HVAC expenses over time. This project will replace an existing building which is inefficient and requires maintenance and does not meet City codes. A new building will reduce the need for constant maintenance and high utility costs and will conform to City Codes and ADA.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

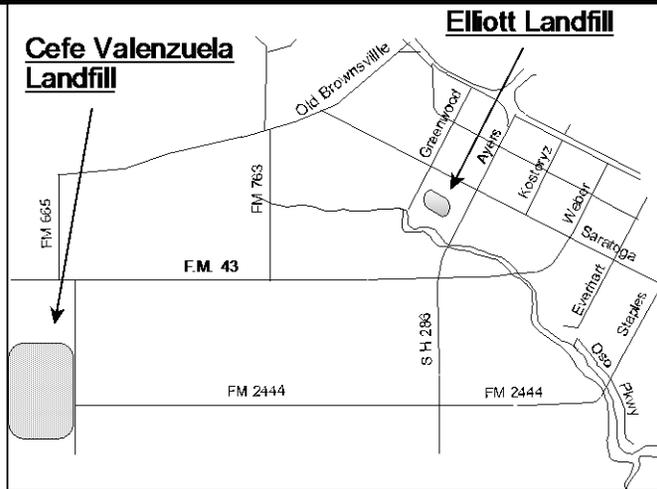
Sequence #05

**PROJECT TITLE: J.C. Elliott Landfill Leachate Collection System Upgrade**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

The current leachate collection system at the closed J.C. Elliott Landfill is past its useful service life and is experiencing failures and requires constant repairs. A functional leachate collection system is part of Texas Commission on Environmental Quality (TCEQ) requirements for every landfill open or closed. For closed landfills, the leachate collection system is required to prevent accumulation of liquids that could damage the High Density Polyethylene liner and leak environmental toxins to the ground water supply.



**PROJECT NOTES:**

Project No.	E16310
A/E Consultant:	Hanson
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	FY 2018
Anticipated Completion:	FY 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			250.0				250,000
Construction				1,250.0			1,250,000
Contingency				125.0			125,000
Inspection/Other			50.0	125.0			175,000
<b>TOTAL:</b>			<b>300.0</b>	<b>1,500.0</b>			<b>\$ 1,800,000</b>
Source of Funds							
Certificates of Obligation			300.0	1,500.0			1,800,000
<b>TOTAL:</b>			<b>300.0</b>	<b>1,500.0</b>			<b>\$ 1,800,000</b>

**OPERATIONAL IMPACT:**

This project will keep the facility in permit compliance and avoid permit violations and fines.

## PROJECT DESCRIPTION

DEPARTMENT: Public Health and Safety

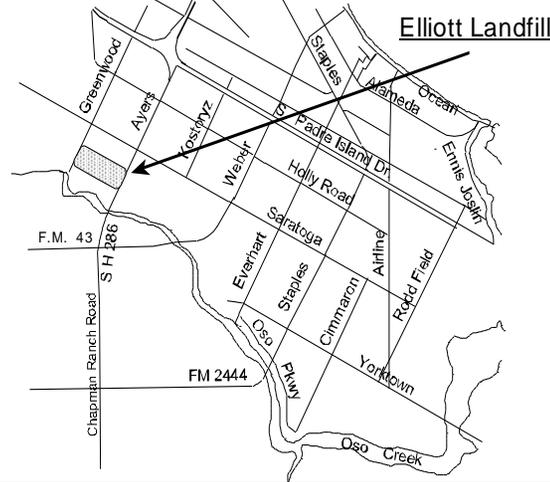
Sequence #06

### PROJECT TITLE: J.C. Elliott Transfer Station Pavement Improvements

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

Internal roadways and pavement located at J. C. Elliott Landfill require periodic replacement due to life cycle of the roadways and deterioration caused by heavy truck traffic. Recommended work is necessary to allow continued access to facility. Additionally, post closure monitoring and movement of mulching operations in order to support new contract baseball fields require construction of additional internal roadways. Streets are repaired yearly to the extent funding allows.



**PROJECT NOTES:**

Project No.	TBD
A/E Consultant:	TBD
Award Design:	On-Going
Award Construction:	On-Going
Anticipated Completion:	On-Going

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			10.0	50.0			60,000
Construction			75.0	800.0			875,000
Contingency			5.0	80.0			85,000
Inspection/Other			10.0	70.0			80,000
<b>TOTAL:</b>			<b>100.0</b>	<b>1,000.0</b>			<b>\$ 1,100,000</b>
Source of Funds							
Certificates of Obligation			100.0	1,000.0			1,100,000
<b>TOTAL:</b>			<b>100.0</b>	<b>1,000.0</b>			<b>\$ 1,100,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational impact from this project, but access and operational efficiency could be greatly reduced and potential liability claims could be generated for damages to private vehicles if the work is not performed. Such liability lawsuits are currently ongoing.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

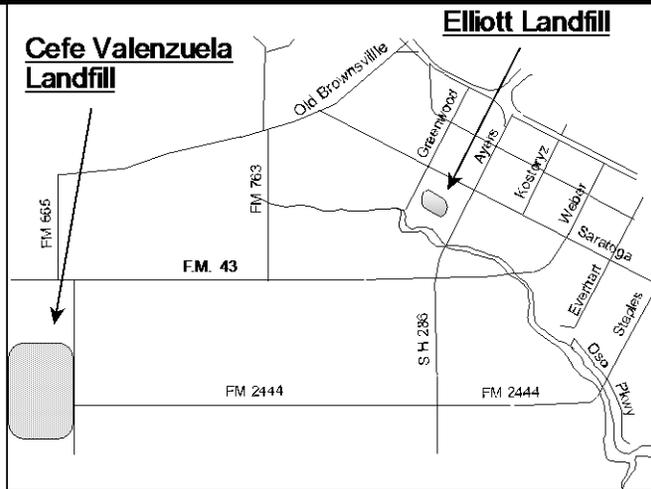
Sequence #07

**PROJECT TITLE: Cefe Valenzuela Landfill Haul Road Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

Internal roadways and pavement located at Cefe Valenzuela Landfill require periodic replacement due to life cycle of roadways and deterioration caused by heavy truck traffic. Recommended work is necessary to allow continued safe access to facility. Funding from prior years is completing road reconstruction at Cefe Valenzuela Landfill. Streets are repaired yearly to extent funding allows.



**PROJECT NOTES:**

Project No.	TBD
A/E Consultant:	TBD
Award Design:	On-Going
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			110.0				110,000
Construction				1,850.0			1,850,000
Contingency			60.0	85.0			145,000
Inspection/Other			30.0	65.0			95,000
<b>TOTAL:</b>			<b>200.0</b>	<b>2,000.0</b>			<b>\$ 2,200,000</b>
Source of Funds							
Certificates of Obligation			200.0	2,000.0			2,200,000
<b>TOTAL:</b>			<b>200.0</b>	<b>2,000.0</b>			<b>\$ 2,200,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational impact from this project, but access and operational efficiency could be greatly reduced and potential liability claims could be generated for damages to private vehicles if the work is not performed. Such liability lawsuits are currently ongoing.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

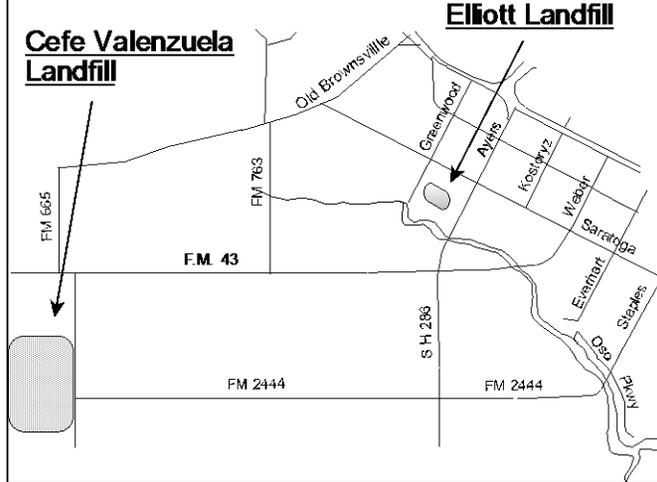
Sequence #08

**PROJECT TITLE:** Cefe Valenzuela Landfill Disposal Cells Construction Sectors 2A and 2B

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

The landfill has approximately two years of waste capacity remaining in the lined areas. Capacity exhaustion is anticipated December 2018. It is recommended that liner design plans and specifications should begin 18 months prior to this date to ensure capacity availability. Cell excavation will provide cover soil for landfill operations.



**PROJECT NOTES:**

Project No.	E16311
A/E Consultant:	Hanson
Contractor:	TBD
Award Design:	FY 2018
Award Construction:	FY 2019
Anticipated Completion:	FY 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				450.0			450,000
Construction					3,900.0		3,900,000
Contingency					390.0		390,000
Inspection/Other			25.0	50.0	210.0		285,000
<b>TOTAL:</b>			<b>25.0</b>	<b>500.0</b>	<b>4,500.0</b>		<b>\$ 5,025,000</b>
Source of Funds							
Certificates of Obligation			25.0	500.0	4,500.0		5,025,000
<b>TOTAL:</b>			<b>25.0</b>	<b>500.0</b>	<b>4,500.0</b>		<b>\$ 5,025,000</b>

**OPERATIONAL IMPACT:**

This project is required by the Texas Commission on Environmental Quality (TCEQ) and successful completion of project in a timely manner will avoid fines and penalties as well as protect the environment. This project will provide cover soil from new cell excavation, which will save costs for operational budget.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

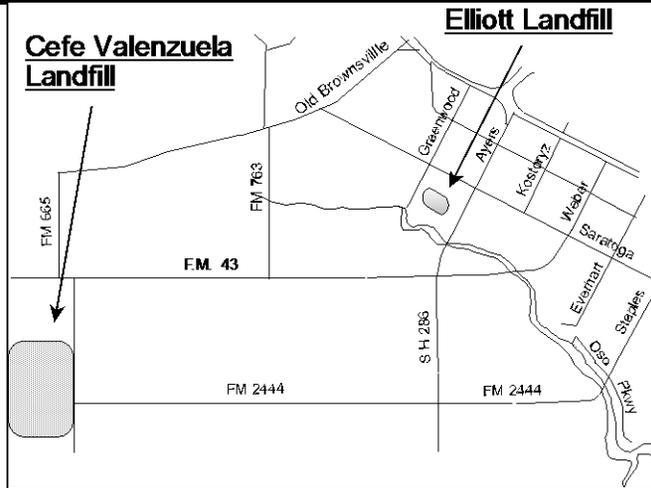
Sequence #09

**PROJECT TITLE: Cefe Valenzuela Landfill Disposal Cells Interim Cover - Cells 3D, 4A & 4B**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

A Texas Commission on Environmental Quality (TCEQ) permit requires that design and installation of interim final cover for disposal Cells 3D, 4A and 4B must be completed in a timely manner to protect public safety and avoid penalties. TCEQ must review and approve construction plans prior to construction starting. Installation of interim final cover will protect the environment by keeping accumulated waste in place. Using an alternate interim cover system could potentially reduce operational expenses if approval is given to a design which includes solar panels to produce energy. Currently, all permitting requirements have been completed and staff is waiting on soil balance cover report and response to an interim cover.



**PROJECT NOTES:**

Project No.	E11061
A/E Consultant:	CP&Y
Award Design:	Jan 2013
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	475.4		300.0				775,400
Construction				3,000.0			3,000,000
Contingency				300.0			300,000
Inspection/Other	73.5	2.9	50.0	200.0			326,400
<b>TOTAL:</b>	548.9	2.9	350.0	3,500.0			\$ 4,401,800
Source of Funds							
Certificates of Obligation	548.9	2.9	350.0	3,500.0			4,401,800
<b>TOTAL:</b>	548.9	2.9	350.0	3,500.0			\$ 4,401,800

**OPERATIONAL IMPACT:**

This project is required by the Texas Commission on Environmental Quality (TCEQ) and successful completion of project in a timely manner will avoid fines and penalties as well as protect the environment. The alternate interim cover, if approved by TCEQ, could provide alternate energy savings and reduce landfill expenses.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

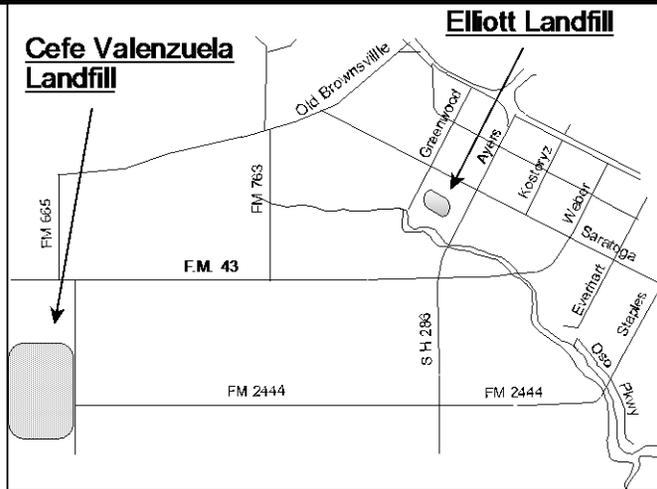
Sequence #10

**PROJECT TITLE: Erosion Control Lifecycle Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

The purpose of the Erosion Control Rehabilitation Project is to provide tools necessary to monitor, control, and repair erosion on all closed and open landfills. Erosion in landfills could disturb daily, intermediate, and/or final cover, exposing garbage and damaging any liner set in place, as well as violate permit conditions. Some erosion control measures include: vegetation of slopes, vegetation of other key areas, mechanical controls to channel water from slopes, etc. This is expected to be an ongoing activity for open and closed landfills necessary to maintain compliance status with State and Federal Laws. Erosion Control Cover will be designed to last several decades.



**PROJECT NOTES:**

Project No.	TBD
A/E Consultant:	RFQ
Contractor:	TBD
Award Design:	On-Going
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			70.0				70,000
Construction				700.0			700,000
Contingency				30.0			30,000
Inspection/Other			5.0	20.0			25,000
<b>TOTAL:</b>			<b>75.0</b>	<b>750.0</b>			<b>\$ 825,000</b>
<b>Source of Funds</b>							
Certificates of Obligation			75.0	750.0			825,000
<b>TOTAL:</b>			<b>75.0</b>	<b>750.0</b>			<b>\$ 825,000</b>

**OPERATIONAL IMPACT:**

This project will provide savings to Operational Budget by holding soil cover in place for extended time periods, preventing future expenditures on additional soil cover and soil cover repairs. This project helps maintain compliance of permit requirements and avoid future violations and fines.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

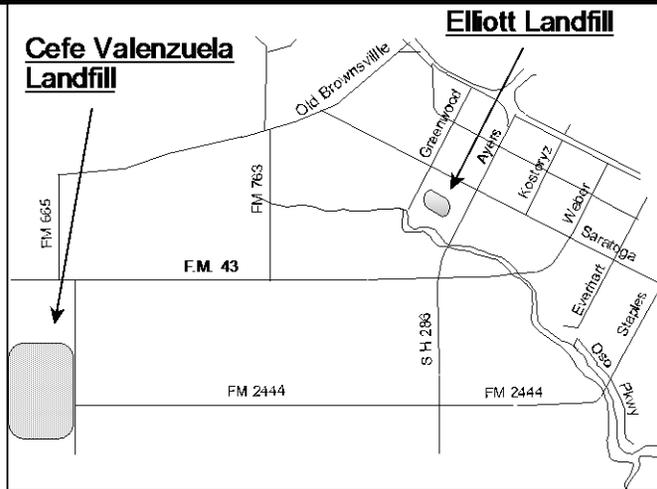
Sequence #11

**PROJECT TITLE: Cefe Valenzuela Landfill Liquids (Leachate) Management System**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

This project will provide required design and construction of leachate recirculation system. Proposed work is necessary to maintain control of leachate infected ground water and insure regulatory compliance for proper handling of leachate generated from disposal cells. Proposed work will optimize controls, piping, and pumps for recirculation of leachate into proper disposal cells and eliminates need for existing two 5-acre leachate ponds. Permit modification will be required to recirculate groundwater in cells with recirculated leachate.



**PROJECT NOTES:**

Project No.	E11059
A/E Consultant:	CP&Y
Award Design:	Oct 2013
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	41.3		45.0				86,300
Construction				850.0			850,000
Contingency				50.0			50,000
Inspection/Other	9.0		5.0	50.0			64,000
<b>TOTAL:</b>	50.3		50.0	950.0			\$ 1,050,300
Source of Funds							
Certificates of Obligation	50.3		50.0	950.0			1,050,300
<b>TOTAL:</b>	50.3		50.0	950.0			\$ 1,050,300

**OPERATIONAL IMPACT:**

This project will result in elimination of future capital improvement projects to construct additional evaporation ponds as size of landfill increases. It will also optimize energy usage by improving pumping pattern for recirculation and control system which will reduce amount of utility expense and labor costs required to operate existing leachate control system.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

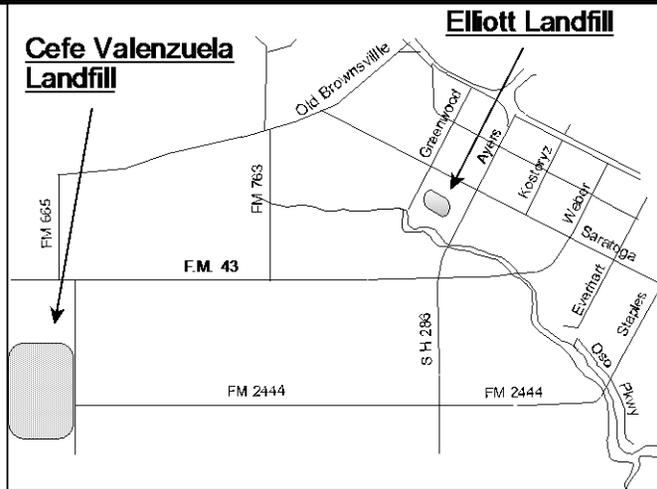
Sequence #12

**PROJECT TITLE:** Cefe Valenzuela Landfill Gas Collection and Control System (GCCS)

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

This project is required by Texas Commission on Environmental Quality and Environmental Protection Agency regulations on greenhouse gases to be operational by November 11, 2017. The GCCS will collect landfill gasses into a collection system and then flare them to prevent them from escaping into the atmosphere and harming the ozone layer.



**PROJECT NOTES:**

Project No.	E16289
A/E Consultant:	SCS, Inc.
Contractor:	TriCon
Award Design:	June 2016
Award Construction:	March 2017
Anticipated Completion:	Nov 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	268.0						268,000
Construction	1,019.7	500.0					1,519,700
Contingency		50.0					50,000
Inspection/Other	42.8	164.4					207,200
<b>TOTAL:</b>	<b>1,330.5</b>	<b>714.4</b>					<b>\$ 2,044,900</b>
<b>Source of Funds</b>							
Certificates of Obligation	1,330.5	714.4					2,044,900
<b>TOTAL:</b>	<b>1,330.5</b>	<b>714.4</b>					<b>\$ 2,044,900</b>

**OPERATIONAL IMPACT:**

Compliance with TCEQ/EPA regulations will avoid daily violations and fines imposed after November 11, 2017.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

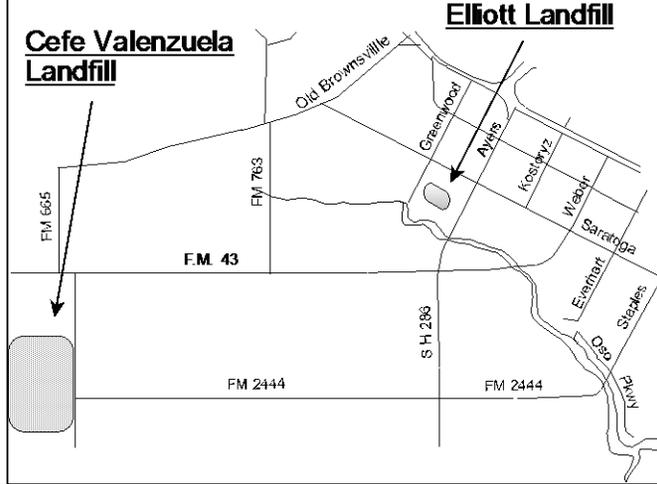
Sequence #13

**PROJECT TITLE: Cefe Valenzuela Landfill Gas Flare for Gas Collection and Control System (GCCS)**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

This project involves procurement of a flare for Gas Collection and Control System (GCCS) currently being designed for Cefe Valenzuela landfill and required by Texas Commission on Environmental Quality & Environmental Protection Agency. If not in operation by November 11, 2017, the city is at risk for violation and daily fines. The flare was purchased separately from construction project because of the long lead-time which could be detrimental to City bid prices and participation in larger project. This approach took risk out of City's project and saved costs by purchasing item separately.



**PROJECT NOTES:**

Project No.	E16309
A/E Consultant:	SCS
Contractor:	Parnell
Award Design:	June 2016
Award Construction:	March 2017
Anticipated Completion:	Nov 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering							
Equipment	271.5						271,500
Contingency							
Inspection/Other		228.5					228,500
<b>TOTAL:</b>	271.5	228.5					<b>\$ 500,000</b>
Source of Funds							
Certificates of Obligation	271.5	228.5					500,000
<b>TOTAL:</b>	271.5	228.5					<b>\$ 500,000</b>

**OPERATIONAL IMPACT:**

In addition to saving costs in excess of \$100,000, the operational impact of this project will comply with permit requirements and regulatory guidance by avoiding daily violations and fines imposed after November 11, 2017.

**PROJECT DESCRIPTION**

DEPARTMENT: Public Health and Safety

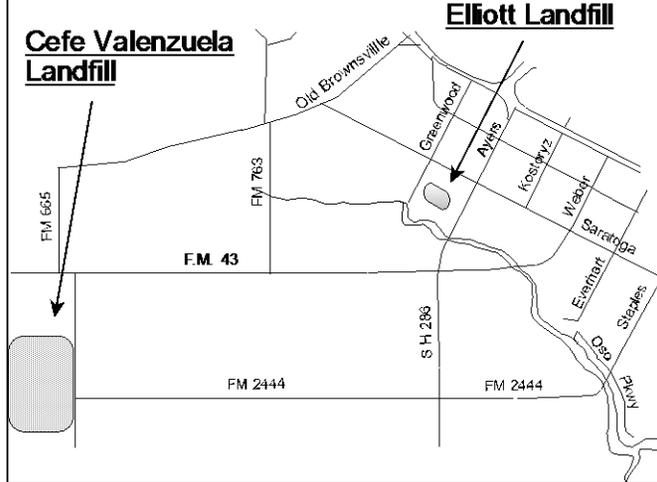
Sequence #14

**PROJECT TITLE: Cefe Valenzuela Landfill Water Control Structure for Fire Protection and Irrigation**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

This project will provide required design and construction of stormwater retention pond to support fire water and irrigation needs at landfill.



PROJECT NOTES:	
Project No.	TBD
A/E Consultant:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			50.0				50,000
Construction				420.0			420,000
Contingency				42.0			42,000
Inspection/Other				38.0			38,000
<b>TOTAL:</b>			<b>50.0</b>	<b>500.0</b>			<b>\$ 550,000</b>
Source of Funds							
Certificates of Obligation			50.0	500.0			550,000
<b>TOTAL:</b>			<b>50.0</b>	<b>500.0</b>			<b>\$ 550,000</b>

**OPERATIONAL IMPACT:**

This project eliminate risk that fire could not be controlled as landfill has grown but water supply has not. This project will also control risk and protect investments in erosion control grass cover by allowing irrigation even during watering restrictions. This project will also save operational costs by providing soil borrow for landfill cover.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

Sequence #15

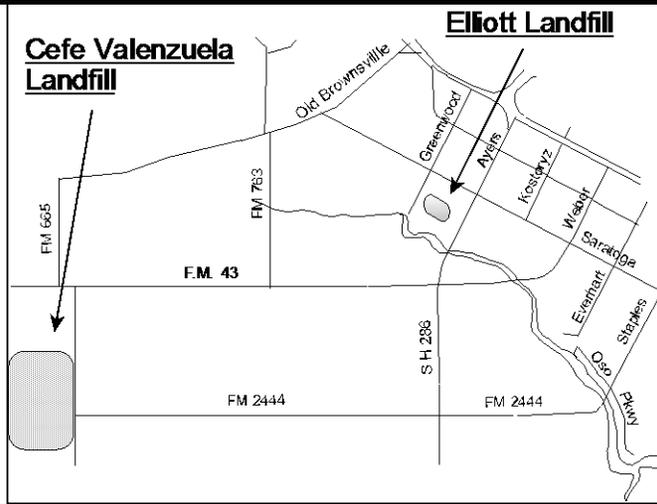
**PROJECT TITLE: Solid Waste Small Construction Engineering**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

This project will provide Solid Waste Department with assistance, as need arises, for capital issues, permitting questions or clarifications, records research, small job order construction contract design, or other needs associated with the Elliott Landfill, Elliott Transfer Station and Cefe Valenzuela Landfill. Other responsibilities will include:

- Flood damaged pavement repairs to Oso Creek crossing at Elliott Landfill;
- Erosion repairs and control measures at soil borrow area south of Oso Creek;
- Pavement assessment and repairs at Elliott Transfer Station;
- Piping repairs/replacement for the Elliott Landfill leachate storage tanks;
- Development of Temporary Debris Storage and Reduction (TDSR) site(s) for Emergency Response program;
- Erosion repairs and control measures at Elliott Landfill;
- Regulatory consulting regarding status of soil borrow areas adjacent to Elliott Landfill



**PROJECT NOTES:**

Project No.	E15103
A/E Consultant:	Hanson
Contractor:	Various
Award Design:	N/A
Award Construction:	N/A
Anticipated Completion:	N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			225.0	450.0			675,000
Construction							
Contingency			25.0	50.0			75,000
Inspection/Other							
<b>TOTAL:</b>			<b>250.0</b>	<b>500.0</b>			<b>\$ 750,000</b>
<b>Source of Funds</b>							
Certificates of Obligation			250.0	500.0			750,000
<b>TOTAL:</b>			<b>250.0</b>	<b>500.0</b>			<b>\$ 750,000</b>

**OPERATIONAL IMPACT:**

Solid Waste staff have to continually maintain, improve and control facilities. Many issues require timely implementation and all required engineering and permitting assistance. This project provides consultant services for issues requiring timely response through either engineering consulting, permit compliance assistance, or engineering design, bid, and construction phase services for items with multi-decadal utility.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

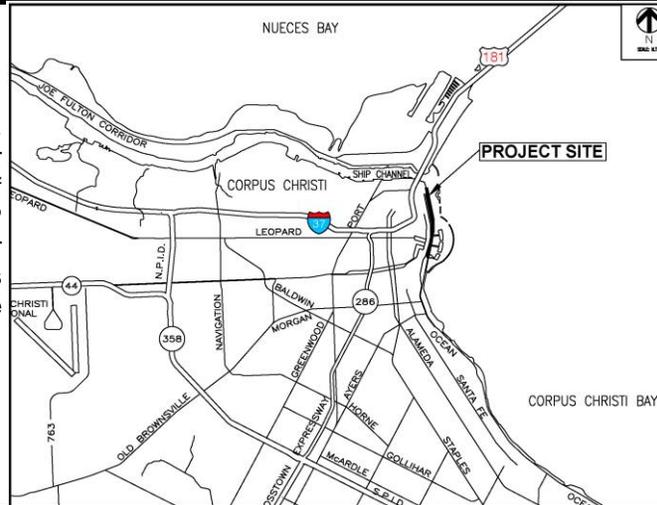
Sequence #16

**PROJECT TITLE: Seawall Capital Repairs**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

The Corpus Christi Seawall was originally constructed from 1939 to 1942. With initiation of the Seawall Maintenance sales and use tax, a major project was completed in 2007 (\$43.4 million) to address advanced levels of deterioration of the Seawall system. Funding levels programmed in the CIP are anticipated to address routine maintenance issues. Subsequent major reconstruction is scheduled after expiration of current one-eighth cent sales and use tax. A small A/E will be issued to review current condition of the seawall this FY.



**PROJECT NOTES:**

Project No.	E17041
	E11090
A/E Consultant:	Munoz Eng
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		100.0	40.0	80.0	40.0	920.0	1,180,000
Construction			400.0	800.0	100.0	2,300.0	3,600,000
Contingency			40.0	80.0	20.0	460.0	600,000
Inspection/Other		100.0	20.0	40.0	40.0	920.0	1,120,000
<b>TOTAL:</b>		200.0	500.0	1,000.0	200.0	4,600.0	\$ 6,500,000

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Sales Tax Proceeds		200.0	500.0	1,000.0	200.0	4,600.0	6,500,000
<b>TOTAL:</b>		200.0	500.0	1,000.0	200.0	4,600.0	\$ 6,500,000

**OPERATIONAL IMPACT:**

Providing minor, routine repairs can defer potentially costly major structural reconstruction efforts.

## PROJECT DESCRIPTION

DEPARTMENT: **Public Health and Safety**

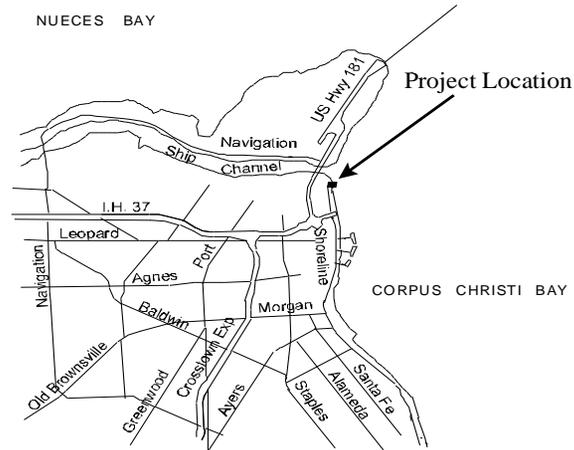
Sequence #17

### PROJECT TITLE: **Barge Dock Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

The Barge Dock (commonly referred to as the Art Museum Barge Dock) is located on N. Shoreline Boulevard north end of Corpus Christi Seawall adjacent to the Art Museum of South Texas. Its proximity to the entrance of the Port of Corpus Christi, the American Bank Center, Selena Auditorium, the Museum of Science and History and the Art Museum make the Barge Dock an integral part of these facilities. The Barge Dock area consists of a concrete paved area over fill material, contained along Corpus Christi Bay by a sheet-pile supported structure topped with a concrete pile cap. The barge dock is frequently swamped by high tides limiting its usefulness. A previous concept of this project contemplated raising the structure and enhancing its use. The current program includes funds for maintenance activities only.



**PROJECT NOTES:**

Project No.	E03426
	3426
A/E Consultant:	LJA (RVE)
Contractor:	TBD
Award Design:	Sept 2012
Award Construction:	FY 2017
Anticipated Completion:	FY 2018

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	351.1					100.0	451,100
Construction	163.8	500.0	<b>400.0</b>			900.0	1,963,800
Contingency			<b>50.0</b>			70.0	120,000
Inspection/Other	148.2		<b>50.0</b>			30.0	228,200
<b>TOTAL:</b>	663.1	500.0	<b>500.0</b>			1,100.0	<b>\$ 2,763,100</b>

Source of Funds							
Sales Tax Proceeds	663.1	500.0	<b>500.0</b>			1,100.0	2,763,100
<b>TOTAL:</b>	663.1	500.0	<b>500.0</b>			1,100.0	<b>\$ 2,763,100</b>

**OPERATIONAL IMPACT:**

There is not a direct operational cost at this time.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

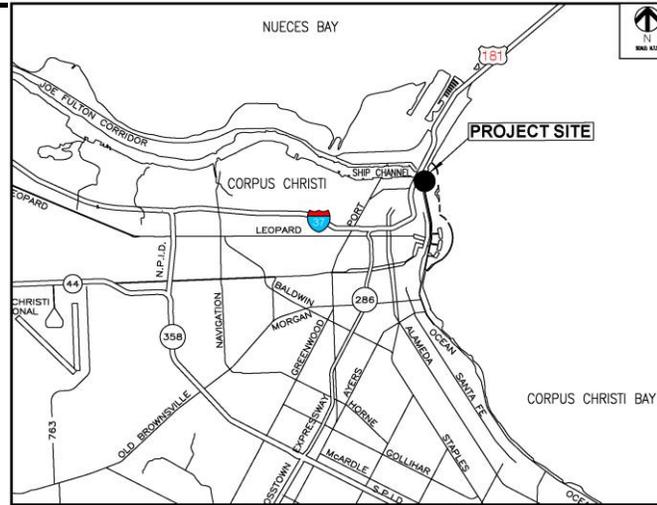
Sequence #18

**PROJECT TITLE:** United States Army Corps of Engineers Bulkhead Repairs

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

This project will include construction of a new bulkhead along south shoreline of the Corpus Christi Ship Channel from the northern end of the existing floodwall on Port of Corpus Christi Authority (PCCA) property, eastward across the United States Army Corps of Engineers (USACE) property and terminating at the northwest corner of recently constructed bulkhead in front of South Texas Art Museum. The low lying areas on the USACE and PCCA property would be filled to an elevation approximately same as that in front of the Art Museum. Area paving could be constructed between the new bulkhead and existing floodwall.



**PROJECT NOTES:**

Project No.	E16317
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				450.0	900.0	100.0	1,450,000
Construction					3,700.0	4,000.0	7,700,000
Contingency					100.0	400.0	500,000
Inspection/Other				50.0	300.0	500.0	850,000
<b>TOTAL:</b>				500.0	5,000.0	5,000.0	<b>\$ 10,500,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Sales Tax Proceeds				500.0	5,000.0	5,000.0	10,500,000
<b>TOTAL:</b>				500.0	5,000.0	5,000.0	<b>\$ 10,500,000</b>

**OPERATIONAL IMPACT:**

There is no operational impact with this project.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

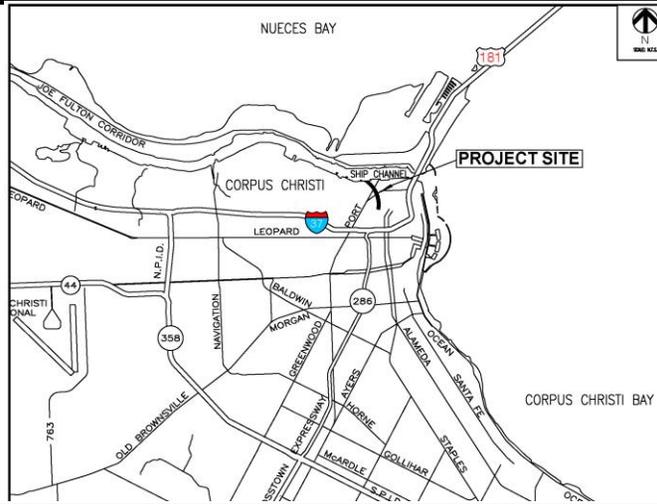
Sequence #19

**PROJECT TITLE:** Salt Flats Levee Improvements

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

The Salt Flats Levee System (originally referred to as the Backwater Levee) is an integral component of the downtown flood protection system. The levee requires improvements and maintenance to ensure system will function as originally designed. The levee is susceptible to various modes of failure. The City is not currently pursuing FEMA accreditation for the Salt Flats Levee, including its accreditation as a freeboard-deficient levee. However, the planned improvements will repair functional deficiencies in the levee.



**PROJECT NOTES:**

Project No.	E12070
	E03428
A/E Consultant:	HDR
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	384.0	150.0		40.0		250.0	824,000
Construction	48.0	700.0	250.0	400.0		1,400.0	2,798,000
Contingency		70.0	25.0	40.0		150.0	285,000
Inspection/Other	119.5	80.0	25.0	20.0		200.0	444,500
<b>TOTAL:</b>	551.5	1,000.0	300.0	500.0		2,000.0	\$ 4,351,500

Source of Funds							
Sales Tax Proceeds	551.5	1,000.0	300.0	500.0			2,351,500
<b>TOTAL:</b>	551.5	1,000.0	300.0	500.0		2,000.0	\$ 4,351,500

**OPERATIONAL IMPACT:**

There is not a direct operational cost at this time.

## PROJECT DESCRIPTION

**DEPARTMENT:** Public Health and Safety

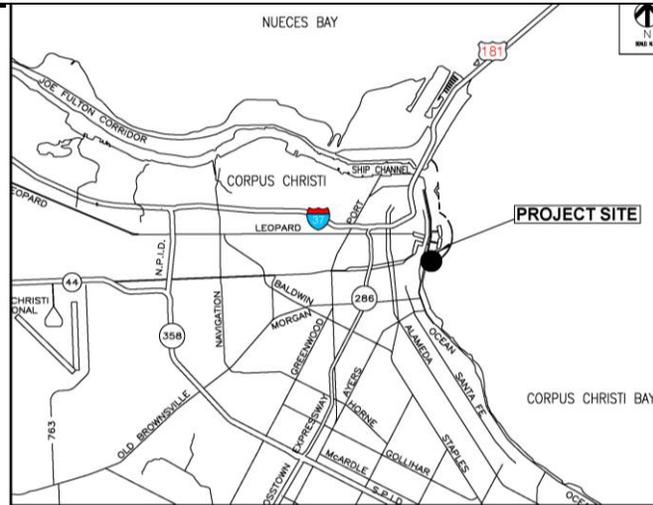
Sequence #20

**PROJECT TITLE: Marina Breakwater at McGee Beach Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

Proposed improvements will repair existing McGee Beach Pier and the rock breakwater and concrete cap. Pier repairs consist of structural repair of concrete pier deck understructure, new shade structure, electrical service extension, pier lighting, and breakaway panels on the pier outer structure to slow sand migration. The McGee Beach Pier Improvements are proposed to be completed by the current Design/Build contract for the Bayfront Master Plan, Ph 3. Breakwater repairs consist of demolishing existing, damaged concrete cap, repairing rock breakwater, and installing a new, wider concrete cap. The breakwater improvements will help fortify the seawall against wave attack by preventing failure of the breakwater and excessive erosion of McGee Beach.



**PROJECT NOTES:**

Project No.	Pier: E15152
	Breakwater: E16318
A/E Consultant:	Pier: ECMS
	Breakwater: LAN
Contractor:	Pier: Fulton Coastcon
	Breakwater: TBD
Award Design:	Pier: March 2017
	Breakwater: FY 2018
Award Construction:	Pier: June 2017
	Breakwater: TBD
Anticipated Completion:	Pier: FY 2018
	Breakwater: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		300.0					300,000
Construction			1,000.0	1,500.0			2,500,000
Contingency			100.0	150.0			250,000
Inspection/Other	23.3	200.0	150.0	350.0			723,300
<b>TOTAL:</b>	<b>23.3</b>	<b>500.0</b>	<b>1,250.0</b>	<b>2,000.0</b>			<b>\$ 3,773,300</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Sales Tax Proceeds	23.3	500.0	1,250.0	2,000.0			3,773,300
<b>TOTAL:</b>	<b>23.3</b>	<b>500.0</b>	<b>1,250.0</b>	<b>2,000.0</b>			<b>\$ 3,773,300</b>

**OPERATIONAL IMPACT:**

There is no operational impact with this project.

**PROJECT DESCRIPTION**

**DEPARTMENT:** Public Health and Safety

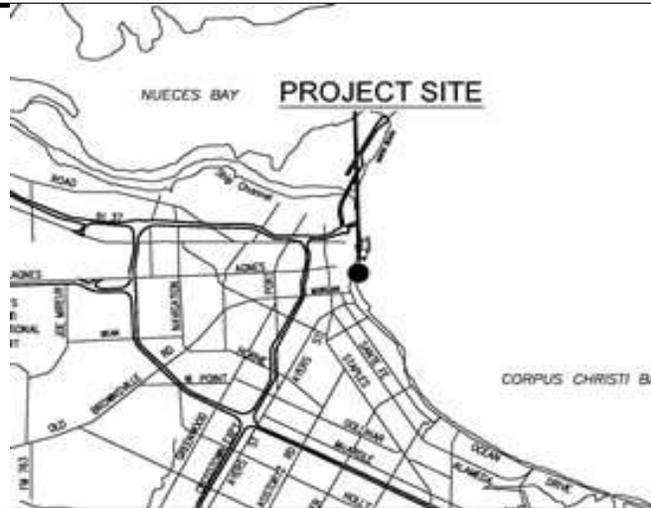
Sequence #21

**PROJECT TITLE:** McGee Beach Nourishment / Boat Basin Dredging

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

The proposed improvement consists of nourishing McGee Beach in order to improve potential storm damage reduction at the seawall. A wider beach will help the seawall survive a storm of longer duration or greater intensity. Sand may be trucked in from upland sources, such as quarries near Nueces River, or dredged from the marina or bay. This project would address beach renourishment as well as shoaling issues in the marina.



**PROJECT NOTES:**

Project No.	E16321
A/E Consultant:	Govind
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		100.0				100.0	200,000
Construction				900.0		1,000.0	1,900,000
Contingency				50.0		50.0	100,000
Inspection/Other		100.0		50.0		50.0	200,000
<b>TOTAL:</b>		200.0		1,000.0		1,200.0	\$ 2,400,000
<b>Source of Funds</b>							
Sales Tax Proceeds		200.0		1,000.0		1,200.0	2,400,000
<b>TOTAL:</b>		200.0		1,000.0		1,200.0	\$ 2,400,000

**OPERATIONAL IMPACT:**

There is no operational impact with this project.

**PROJECT DESCRIPTION**

DEPARTMENT: Public Health and Safety

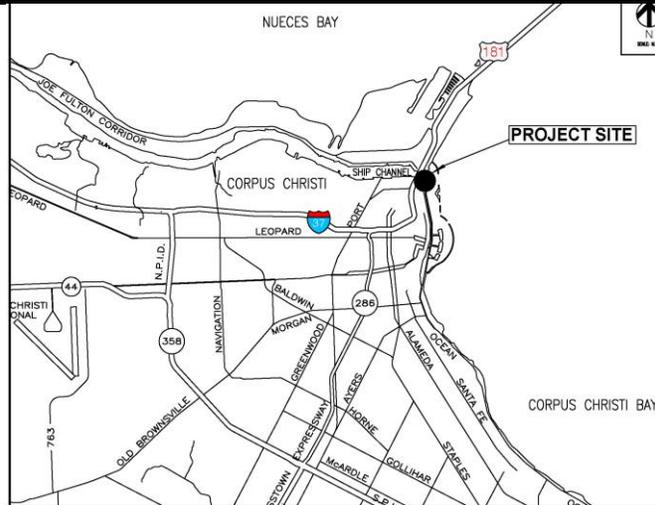
Sequence #22

**PROJECT TITLE: Science & History Museum Flood Wall**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6*

**DESCRIPTION:**

This recommended improvement is to construct a new floodwall (or a coastal structure) that would extend from the Promenade under the Harbor Bridge to the USACE Bulkhead. This project would also backfill the triangular area between the new wall and existing wall location, to make it function more like a coastal structure and provide additional land area for future use.



**PROJECT NOTES:**

Project No.	E16319
A/E Consultant:	HDR Eng.
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		150.0					150,000
Construction		250.0	<b>900.0</b>	900.0			2,050,000
Contingency		25.0	<b>50.0</b>	50.0			125,000
Inspection/Other		75.0	<b>50.0</b>	50.0			175,000
<b>TOTAL:</b>		500.0	<b>1,000.0</b>	1,000.0			<b>\$ 2,500,000</b>
<b>Source of Funds</b>							
Sales Tax Proceeds		500.0	<b>1,000.0</b>	1,000.0			2,500,000
<b>TOTAL:</b>		500.0	<b>1,000.0</b>	1,000.0			<b>\$ 2,500,000</b>

**OPERATIONAL IMPACT:**

There is no operational impact with this project.

## PROJECT DESCRIPTION

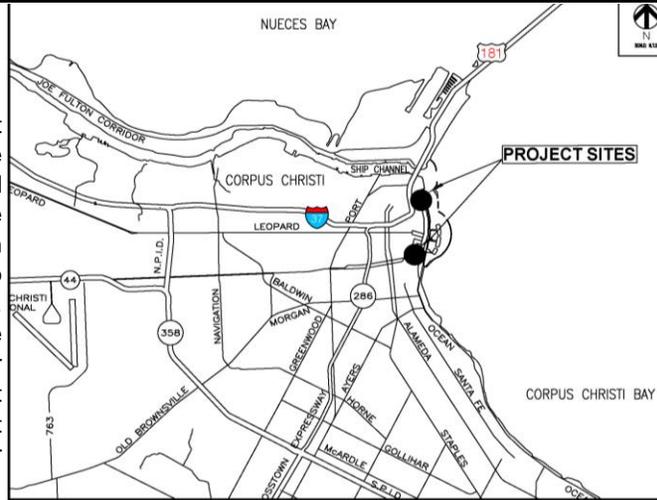
DEPARTMENT: Public Health and Safety Sequence #23

### PROJECT TITLE: Kinney & Power Street Pump Station Improvements

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 3 & 6**

**DESCRIPTION:**

The Power Street Pump Station was originally constructed in 1947 as part of the Bayfront Protection. It has 3 pumps with diesel powered motors. The Kinney Street Pump Station was also constructed in 1947, and reconstructed in 2009. It has 5 pumps with electric motors that are dependent on the 3 generators inside. One redundant pump is located on site. The downtown flood protection system relies on these two pump stations to remove all water from the area during a significant storm event. Preliminary studies have indicated that the pumping capacity would not be adequate to handle rainfall, inflow and wave overtopping during a 100-year storm event. Planned 2D modelling will help to better define demands that would be placed on the system during significant storm events. This project would enhance reliability and capacity of the downtown storm water pumping system.



**PROJECT NOTES:**

Project No.	E16320
A/E Consultant:	Urban Eng.
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

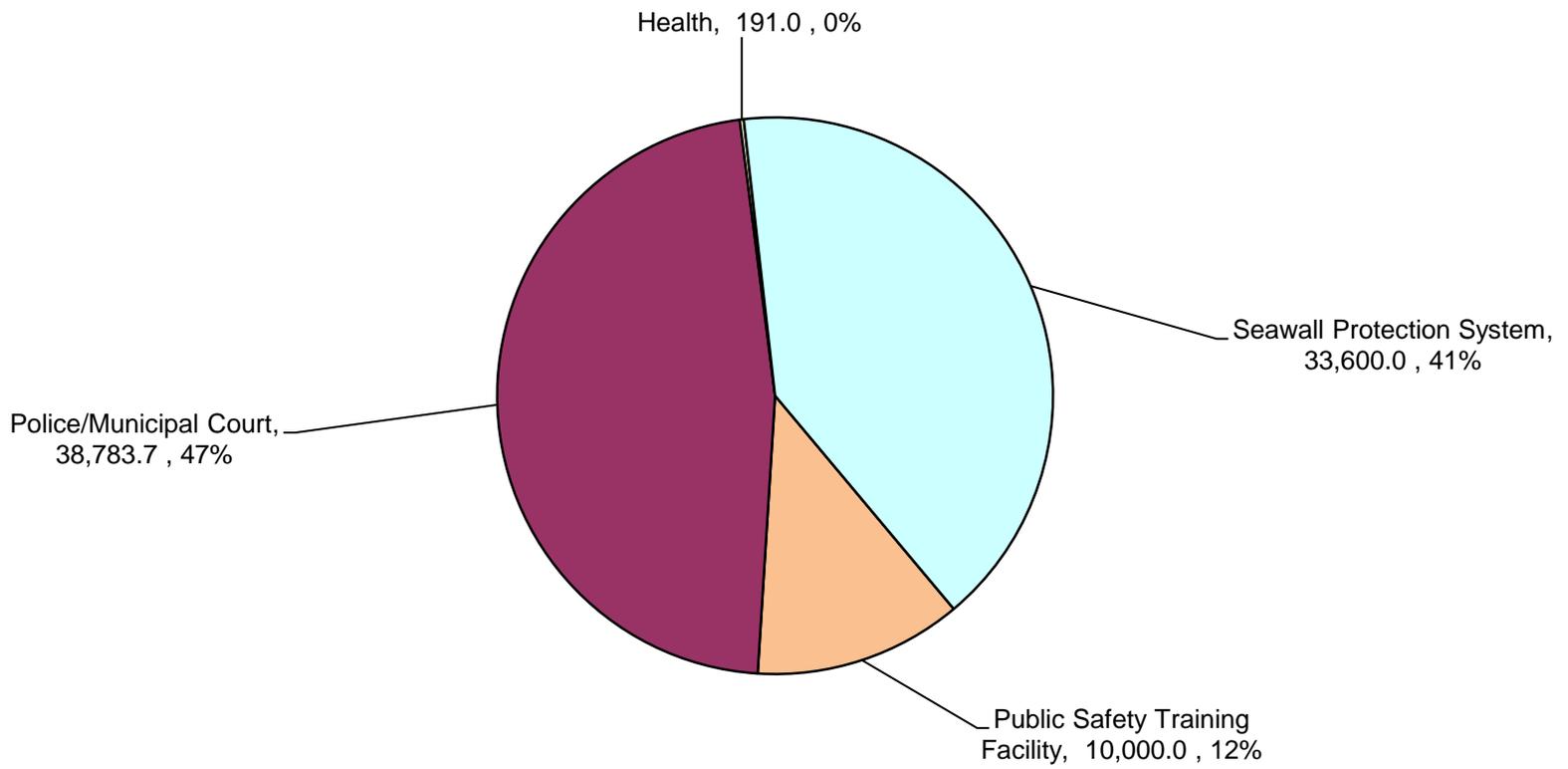
#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		400.0	300.0			200.0	900,000
Construction			100.0	1,500.0	2,500.0	1,500.0	5,600,000
Contingency			10.0	150.0	250.0	150.0	560,000
Inspection/Other		100.0	90.0	150.0	250.0	150.0	740,000
<b>TOTAL:</b>		500.0	500.0	1,800.0	3,000.0	2,000.0	<b>\$ 7,800,000</b>
<b>Source of Funds</b>							
Sales Tax Proceeds		500.0	500.0	1,800.0	3,000.0	2,000.0	7,800,000
<b>TOTAL:</b>		500.0	500.0	1,800.0	3,000.0	2,000.0	<b>\$ 7,800,000</b>

**OPERATIONAL IMPACT:**

This project will improve operational efficiencies, save money on electrical costs, and reduce flooding in the downtown area during heavy rain conditions.

**Public Health & Safety  
Long-Range CIP: \$82,574.7  
(Amounts in 000's)**



**PUBLIC HEALTH SAFETY  
LONG RANGE CIP**

**TRAINING FACILITY**

- |   |  |              |
|---|--|--------------|
| 1 | <u>Fire/Police Training Facility, Phase 2</u>  | \$10,000,000 |
|   | <p>Phase 2 is a unified training facility for fire and police recruits and in-service training. Facility will maximize training and resources by consolidating classroom space, driver training courses and computer training (mobile data terminal - automated vehicle locator). Fire Department will centralize maintenance shop, engine room and pump testing facilities as well as provide classrooms for cadet training and continuing education classes for firefighters to keep up with certification requirements. Offices will be constructed for six trainers.</p> |              |

**FIRE**

- |   |  |     |
|---|--|-----|
| 2 | <u>Vehicle Maintenance &amp; SCBA Repair Facility</u>  | TBD |
|   | <p>A maintenance facility with 5 bays is needed for vehicle repair. Facility will need adequate concrete surfaces to support large fire apparatus. Current facility is outdated and vehicles are too large to fit inside, requiring mechanics to work outside in elements on larger fire apparatus. Approximately 11,000 square feet is required and should be adequate storage for reserve apparatus.</p>   |     |
| 3 | <u>Fire Station Roof Repairs</u>   | TBD |
|   | <p>Project will consist of phased roof system replacement on multiple Fire Station Facilities city-wide. Existing roof systems are approaching, or beyond, their intended life and a new roof system is necessary to stop further deterioration of facilities and protect from serious conditions such as mold, mildew and damage to life safety equipment. Project can be constructed through Facilities Multiple Award Contract (FMAC) to construct project within available funds.</p>  |     |
| 4 | <u>Fire Station Renovations</u>  | TBD |
|   | <p>Project will consist of phased renovations on multiple Fire Station Facilities city-wide. Assessments will be required on each station to determine scope that will maintain or increase functionality and ability to serve public. Project can be constructed through Facilities Multiple Award Contract (FMAC) to construct project within available funds.</p>   |     |
| 5 | <u>Fire Station Engineering Evaluation/ Floors</u>   | TBD |
|   | <p>Project will consist of phased apparatus room floor structural improvements on multiple Fire Station Facilities city-wide. Deterioration of existing floors is causing undue wear and tear on suspension of life safety equipment and will worsen if left untreated. Engineering evaluations will be required in assessing structural integrity of floors. Existing floors were designed to support weights of older engines at approximately 26,520 lbs (Unit 1265 is example). New engines range from 43,500 lbs (Engine 3) to 82,000 lbs (Truck 4). Project can be constructed through Facilities Multiple Award Contract (FMAC) within available funds.</p> |     |
| 6 | <u>Fire Station #19 - Highway 286 in London District</u>   | TBD |
|   | <p>Construct new masonry or ICF type building to house Fire Station with offices for staff, berthing area, living areas and apparatus bay for life safety equipment. Back-up generator will be part of equipment package for continuous facility support during power outages.</p>   |     |

**PUBLIC HEALTH SAFETY  
LONG RANGE CIP**

- 7 Fire Station Replacements (#3, #8, and #10) TBD  
Current Fire Station facilities are not adequate to provide continuous Public Safety Operations due to size, age, and design at time of construction.
- 8 New Fire Headquarters/EOC - Downtown TBD  
Current Fire Headquarters does not provide adequate space for all Fire operations. Current facility has limited office and parking space. Proposal entails construction of a new building with adequate office, training, and parking located in Downtown area.

**POLICE/ MUNICIPAL COURT**

- 9 New Police Headquarters Located in Central Corpus Christi \$37,500,000  
Current Police Department Building does not provide adequate space for all Police operations. Current facility has limited office and parking space. Proposed project entails construction of new building with 150,000 square feet and adequate parking located in central part of City. Located on same acreage will be a Consolidated Response Facility for Public Safety. Building will house all Police and Fire special response vehicles and equipment. For example, Bomb Truck, SWAT Truck, Communications Bus, Riot gear, hazmat gear, etc. Building will be 5,000 square feet for \$500,000.  
NOTE: CONSTRUCTION OF NEW POLICE BUILDING WOULD ELIMINATE NEED FOR EXPANSION and POLICE HEADQUARTERS PARKING FACILITY.
- 10 Community Policing Multi-Purpose Facilities (substations) \$1,283,770  
Two multi-purpose police facilities (substations) will facilitate implementation of long-range goal of community policing and decentralization. Facilities are proposed for Northwest/Calallen and Flour Bluff areas.
- 11 MetroCom/Emergency Operations Center/Fusion Center TBD  
MetroCom and Emergency Operations Center should be relocated further inland for protection during a major storm event. It is estimated 50,000 square foot would be required to adequately serve need.

**SOLID WASTE**

- 14 Citizens Collection Center TBD  
Project will result in four new Citizen's Collection Centers across city for drop-off of solid waste, discarded appliances and furniture and household hazardous waste. Project requires land acquisition, utility improvements, fencing, paving, waste containers, hazardous waste containment building, attendant building, parking and other improvements.

**PUBLIC HEALTH SAFETY  
LONG RANGE CIP**

- 15 Solid Waste Parking Lot Upgrades TBD  
Existing parking lot at Solid Waste needs to be upgraded including the following: demolition of existing area and new parking lot with security fencing, lighting and protection of CNG pump stations.
- 16 New Solid Waste Administration Building TBD  
New masonry type building to house Solid Waste Administration Building with offices for staff, training room and protection area for outdoor equipment.

**HEALTH**

- 18 Corpus Christi Animal Shelter and Vector Control Facility - Phase 2 \$190,950  
Additional improvements to new animal shelter facility including the following: additional 1,640 sq. ft. for 26 small dog kennels, finish out of various rooms (cabinets, tile flooring and other fixtures) and additional fencing and gates.

**SEAWALL**

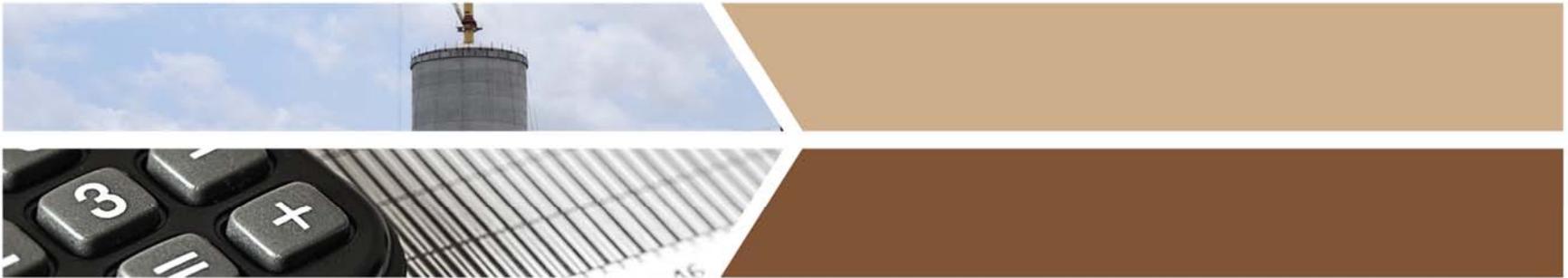
- 19 Recurring Seawall Maintenance \$3,800,000  
The Corpus Christi Seawall was originally constructed from 1939 to 1942. With initiation of the Seawall Maintenance sales and use tax, a major project was completed in 2007 to address advanced levels of deterioration of Seawall system. Project was completed for a cost of \$43.4 million. Funding levels programmed in CIP are anticipated to address routine maintenance issues. Subsequent major reconstruction is shown to occur after expiration of current one-eighth cent sales and use tax.
- 20 Barge Dock Improvements \$1,100,000  
The Barge Dock (commonly referred to as the Art Museum Barge Dock) is located on N. Shoreline Boulevard at north end of the Corpus Christi Seawall adjacent to Art Museum of South Texas. Its proximity to entrance of Port of Corpus Christi, American Bank Center, Selena Auditorium, Museum of Science and History, and Art Museum make the Barge Dock an integral part of these facilities. Barge Dock area consists of a concrete paved area over fill material, contained along Corpus Christi Bay by a sheet-pile supported structure topped with a concrete pile cap. Elevation at the top of pile cap is approximately +3.5' (NGVD '29). The barge dock is frequently swamped by high tides limiting its usefulness. A previous concept contemplated raising structure and enhancing its use. Current program included funds for maintenance activities only.

**PUBLIC HEALTH SAFETY  
LONG RANGE CIP**

- 21 United States Army Corps of Engineers Bulkhead Repair \$10,000,000  
Project would include construction of new bulkhead along south shoreline Science and History Museum eastward across USACE property terminating at the northwest corner of recently constructed bulkhead in front of South Texas Art Museum. Low lying areas on USACE property and PCCA property would be filled to an elevation same as in front of the Art Museum. Area paving could be constructed between new bulkhead and existing floodwall.
- 22 Salt Flats Levee Improvements \$2,000,000  
The Salt Flats Levee System (originally referred to as the Backwater Levee) is an integral component of downtown flood protection system. Levee requires improvements and maintenance to ensure system will function as originally designed. Levee is susceptible to various modes of failure. Additional study is underway and improvements are planned that would be sufficient to be certified by FEMA as a freeboard deficient reach.
- 23 New McGee Beach Breakwater \$5,500,000  
Constructing new offshore breakwater at McGee Beach will increase storm damage reduction benefits for seawall by reducing waves during a hurricane. Offshore breakwater would reduce requirements for beach nourishment at seawall, providing additional storm-damage reduction benefits by improving likelihood a wider, more protective beach will be available during any storm event. Project would remove or modify five existing groins that pose a safety hazard and would not be needed if breakwater is constructed.
- 24 Sunfish Island and Breakwater \$5,250,000  
The primary goal of Sunfish Island and Breakwater project is to restore Sunfish Island and modify breakwater to improve ability to block waves, thus reducing wave impacts on seawall. Proposed improvement consists of 300 ft. "gap closure" breakwater between two segmented breakwaters to reduce wave height at seawall during storms. The breakwater closure would be constructed of quarry stone similar to existing breakwaters. To further block storm waves, Sunfish Island would be increased in size by placing sandy material dredged from the adjacent bay bottom. To help maintain Sunfish Island, an additional 700 ft. of breakwater would be built to block chronic waves from the south.
- 25 Marina Breakwater Improvements \$3,750,000  
The marina breakwater is approximately 5,800 ft. long consisting of quarry stone. Rock breakwater system provides wave sheltering for marina and storm damage protection for seawall. System is vulnerable to settlement, sea level rise and storm damage. Project will address maintenance needs in marina breakwater system not addressed in Project #5.

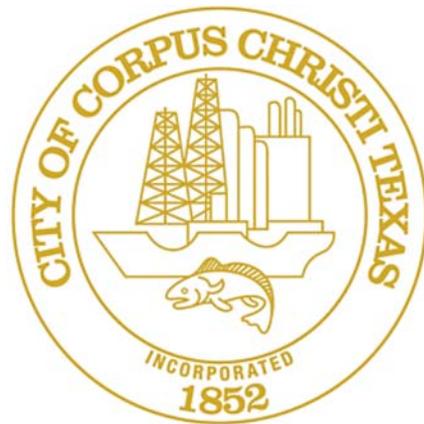
**PUBLIC HEALTH SAFETY  
LONG RANGE CIP**

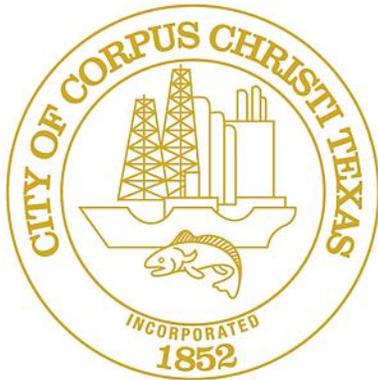
26	<b>McGee Beach Nourishment/Boat Basin Dredging</b>	<b>\$1,200,000</b>
	Proposed improvements consists of nourishing McGee Beach to improve potential storm damage reduction at seawall. A wider beach will help seawall survive a storm of longer duration or greater intensity. Sand may be trucked in from upland sources such as quarries near the Nueces River or dredged from the marina or bay. Project would address beach renourishment and shoaling issues in marina.	
27	<b>Kinney &amp; Power Street Pump Station Improvements</b>	<b>\$1,000,000</b>
	The Power Street Pump Station was originally constructed in 1947 as part of Bayfront protection. It has 3 pumps with diesel powered motors. The Kinney Street Pump Station was also constructed in 1947. The pump station was reconstructed in 2009. It has 5 pumps with electric motors that are dependent on 3 generators inside. One redundant pump is located on site. The downtown flood protection system relies on these two pump stations to remove all water from area during a significant storm event. Preliminary studies have indicated that pumping capacity would not be adequate to handle rainfall, inflow and wave overtopping during a 100-year storm event. Planned 2D modelling will help to better define the demands placed on the system during significant storm events. Project would enhance reliability and capacity of downtown storm water pumping system.	
<b>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</b>		<b>\$82,574,720</b>



# STREETS

Obligation to the Future





# CITY OF CORPUS CHRISTI STREETS PROGRAM

Street quality has an impact on every resident, business and visitor to our City. It affects property values, accessibility to businesses, schools, and residential areas and impacts the quality of life of our citizens. The FY 2017 – 2018 Street Capital Improvement Program contains projects that maintain or improve roadway infrastructure, ensure adequate street lighting, comply with Americans with Disability Act (ADA) requirements and promote safe and efficient traffic flow.

The Residential Street Rebuild Program (RSRP) was authorized at part of the Bond 2016 General Obligation Bond package, and two residential pilot projects (Rogerson Drive and Ralston Avenue) were authorized through the Residential Reconstruction Fund. Over 50% of the City's residential streets are in poor condition, and the RSRP is the first step towards addressing the situation. The pilot projects will begin construction during fiscal year 2018 (FY 18), and the RSRP will select additional residential streets that will be designed and repairs constructed during FY 18.

Certificates of Obligation approved in 2016 will be utilized for the continuation of three Bond 2014 projects. City Council approved funding for Rodd Field Road and Yorktown Intersection, Bond Street Lighting Improvements, and Six Points Intersection Improvements. These improvements include project construction enhancements, providing traffic and pedestrian safety for key locations.

The voter approved 2014 Bond election included two street propositions totaling \$99,495,000. Proposition One included \$55 Million of street projects in the greatest need of reconstruction throughout the City while Proposition Two consisted of \$44,495,000 of projects that promoted street safety, revitalization and capacity improvements. Of the sixteen Proposition One projects, currently three are complete, eleven are under construction, one is on-going and one is in advanced design stage for value engineering. All projects should be under construction or completed this fiscal year. Of the thirteen Proposition Two projects, two are on-going and all will be under construction this fiscal year with many complete by end of FY '18.

The Fiscal Year 2018 Street Capital Improvement Program focuses heavily on construction of projects approved in Bond 2012. Proposition One, valued at \$55 Million, provides a large investment in ADA improvements, street reconstruction and new street construction, while Proposition Eight consists of projects which promote economic development for a total of \$8.4 Million. Of these twenty-six projects, ten are complete, six are under construction, two are on-going, seven will begin construction this fiscal year and one is pending coordination with the new Harbor Bridge.

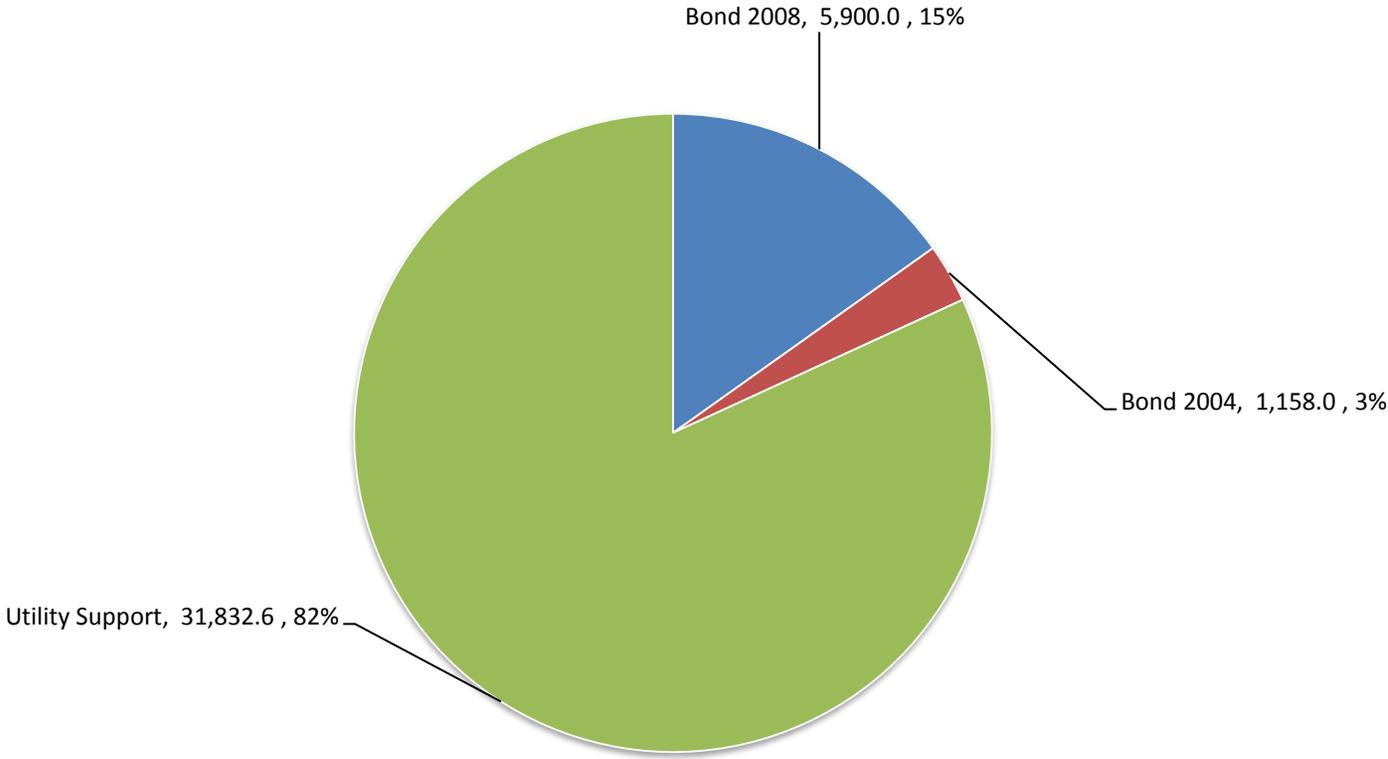
The City of Corpus Christi continues to maximize project funding by actively seeking joint participation with other governmental entities to complete street projects with a maximum benefit for citizens. Significant financial participation has been secured through the Metropolitan Planning Organization (MPO) from Federal Highway Administration and Texas Department of Transportation (TxDOT) funding.

The Street Capital Improvement Program includes specific financial details of required utility adjustments to reflect total project cost and capital value of each project. **Funding for many of the projects currently under design and construction was secured in previous years. Current funding shown is for new money and/or obligations required to complete approved projects.**

A recap of the budgeted expenditures includes:

	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018 – 2019</b>	<b>YEAR THREE 2019 - 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 38,890,600</b>	<b>\$ 3,558,600</b>	<b>\$ 4,723,100</b>
<b>AVAILABLE FUNDING:</b>			
Bond Issue 2008 Proceeds	<b>\$ 5,900,000</b>	\$ 0	\$ 0
Bond Issue 2004 Proceeds	<b>\$ 1,158,000</b>	\$ 0	\$ 0
<b>RECOMMENDED ADDITIONAL FUNDING:</b>			
Revenue Bonds	<b>\$ 31,832,600</b>	\$ 13,558,600	\$ 4,723,100
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 38,890,600</b>	<b>\$ 13,558,600</b>	<b>\$ 4,723,100</b>

**Streets**  
**Annual CIP: \$38,890.6**  
**(Amounts in 000's)**



**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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**STREET BOND 2016 - GENERAL OBLIGATION AND CERTIFICATES OF OBLIGATION**

ST 01	<b>Residential Street Rebuild Program</b> Finance and Engineering Number: E17019	63.3	10,936.7				
ST 02	<b>ADA Improvements</b> Finance and Engineering Number: E17037		2,500.0				
ST 03	<b>Texas Department of Transportation Participation Projects (Includes Bonds 2016, 2014 and 2012)</b> Finance and Engineering Number: E17038	2,700.3	3,299.7				
ST 04	<b>Developer Participation Projects (Includes Bonds 2016 and 2012)</b> Finance and Engineering Number: E17037	2,502.1	3,011.8				
ST 05	<b>Six Points Intersection Improvements</b> Finance and Engineering Number: E17036		3,750.0	<b>938.0</b>	2,805.0	2,805.0	<b>6,548.0</b>
ST 06	<b>Street Lighting</b> Finance and Engineering Number: E17027	48.4	1,951.6				

**STREET BOND 2014 - PROPOSITION 1 & 8 PROJECTS**

ST 07	<b>Gollihar Road - South Staples Street to Weber Road</b> Finance and Engineering Number: E13087	8,500.8	1,289.1	<b>2,161.2</b>	713.8		<b>2,875.0</b>
ST 08	<b>Gollihar Road - Weber Road to Carroll Lane</b> Finance and Engineering Number: E13088	5,543.0	72.0	<b>2,019.0</b>	673.0		<b>2,692.0</b>

**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
ST 09	<b>Gollihar Road - Carroll Lane to Kostoryz</b> Finance and Engineering Number: E13089	7,437.4	947.3				
ST 10	<b>Morgan Avenue - Ocean Drive to South Staples Street</b> Finance and Engineering Number: E13090	711.1	2,375.3	<b>222.6</b>	2,227.6	743.0	<b>3,193.2</b>
ST 11	<b>Corona Drive - Flynn Parkway to Everhart</b> Finance and Engineering Number: E13091	865.8	3,773.1	<b>450.0</b>			<b>450.0</b>
ST 12	<b>Ayers Street - Ocean Drive to Alameda Street</b> Finance and Engineering Number: E13092	1,287.9	6,049.3				
ST 13	<b>Yorktown Road - Lake Travis to Everhart Road</b> Finance and Engineering Number: E13093	1,157.6	3,031.2				
ST 14	<b>South Staples Street - Alameda Street to Morgan Avenue</b> Finance and Engineering Number: E13094	687.6	2,434.3	<b>2,043.0</b>	671.0		<b>2,714.0</b>
ST 15	<b>Yorktown Boulevard - Everhart Road to South Staples Street</b> Finance and Engineering Number: E13096	1,347.4	8,700.3	<b>100.0</b>	800.0		<b>900.0</b>
ST 16	<b>Carroll Lane - Houston to McArdle Road</b> Finance and Engineering Number: E13097	648.4	4,183.9	<b>2,091.5</b>			<b>2,091.5</b>
ST 17	<b>Old Robstown Road, State Highway 44 to Leopard Street</b> Finance and Engineering Number: E13098	741.8	3,325.2	<b>2,421.0</b>			<b>2,421.0</b>

**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
ST 18	<b>Ayers Street - Pedestrian Improvements and Turn Lane Addition</b> Finance and Engineering Number: E15106	812.1	1,144.6	<b>3,810.0</b>			<b>3,810.0</b>
ST 19	<b>Chaparral Street Phase 2 Downtown Development Master Plan</b> Finance and Engineering Number: E15107	760.5	4,568.2	<b>1,441.8</b>	80.0		<b>1,521.8</b>
ST 20	<b>Traffic Signal and Lighting Improvements - City Wide</b> Finance and Engineering Number: E15113	1,262.6	3,737.4				
ST 21	<b>Rodd Field Road Expansion - Saratoga to Yorktown (Includes Bond 2016 Intersection Improvements)</b> Finance and Engineering Number: E15112	1,383.9	12,445.1	<b>3,562.0</b>	1,174.1		<b>4,736.1</b>
ST 22	<b>Downtown Street Traffic Signal and Area Improvements</b> Finance and Engineering Number: E15108	451.2	3,048.8				
ST 23	<b>Ennis Joslin Extension - Holly to Williams</b> Finance and Engineering Number: E15109	3,263.8	401.8	<b>2,370.0</b>			<b>2,370.0</b>
ST 24	<b>Flato Road - Agnes to Bates</b> Finance and Engineering Number: E15110	620.0	2,967.7	<b>2,234.3</b>	735.4		<b>2,969.7</b>
ST 25	<b>North Padre Island Beach Access Roads (3A and 2)</b> Finance and Engineering Number: E15111	578.2	2,921.8				
ST 26	<b>Downtown Road and Streetscape Improvements</b> Finance and Engineering Number: E15098	209.6	1,290.4				

**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
ST 27	<b>Creek View Drive Extension</b> Finance and Engineering Number: E15112	253.4	327.1				

**STREET BOND 2012 PROJECTS**

ST 28	<b>South Alameda Street - Ayers Street to Louisiana Avenue</b> Finance and Engineering Number: E12091	798.7	3,278.9	<b>1,863.2</b>	26.8		<b>1,890.0</b>
ST 29	<b>Ocean Drive - Buford Street to Louisiana Avenue</b> Finance and Engineering Number: E12093	12,777.1	22.5	<b>3,015.0</b>			<b>3,015.0</b>
ST 30	<b>South Staples Street - Brawner Parkway to Kostoryz Road</b> Finance and Engineering Number: E12095	1,028.4	9,803.6	<b>1,090.0</b>	125.3		<b>1,215.3</b>
ST 31	<b>Kostoryz Road - Brawner Parkway to Staples Street</b> Finance and Engineering Number: E12099	9,834.4	41.5				
ST 32	<b>Morgan Avenue - South Staples Street to Crosstown Freeway</b> Finance and Engineering Number: E12101	564.8	2,724.9		189.5	63.1	<b>252.6</b>
ST 33	<b>Twigg Street - Shoreline Boulevard to Lower Broadway</b> Finance and Engineering Number: E12102	429.8	785.0				
ST 34	<b>Leopard Street - Crosstown Freeway to Palm Drive</b> Finance and Engineering Number: E12103	671.5	3,789.7				

**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
ST 35	<b>Holly Road - Crosstown Freeway to Greenwood Drive</b> Finance Number: 170371 Engineering Number: 6470	2,504.1	772.0		3,337.1	1,112.0	<b>4,449.1</b>
ST 36	<b>SeaTown Pedestrian Improvements</b> Finance and Engineering Number: E12134	343.3	296.7				
ST 37	<b>North Beach Area Road Improvements and Area Beautification</b> Finance and Engineering Number: E12127	347.4	753.5				
ST 38	<b>North Beach Breakwater Plaza, North Shoreline Repair and Enhancement</b> Finance and Engineering Number: E12129	286.9	1,563.3				
<b>STREET BOND2004</b>							
ST 39	<b>Park Road 22 Bridge</b> Finance Number: 170062 Engineering Number: 6281	1,504.0	5,753.9	<b>7,058.0</b>			<b>7,058.0</b>
	<b>Program Total:</b>	<b>74,928.6</b>	<b>124,069.2</b>	<b>38,890.6</b>	<b>13,558.6</b>	<b>4,723.1</b>	<b>57,172.3</b>

**STREETS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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**CURRENTLY AVAILABLE FUNDING:**

	Bond Issue 2016 General Obligation Bonds	63.3	22,186.7				
	Bond Issue 2016 Certificates of Obligation	48.4	5,701.6				
	Bond Issue 2014 General Obligation Bonds	22,475.9	55,335.4				
	Bond Issue 2014 Tax Notes	5,660.5	660.0				
	Bond Issue 2012 General Obligation Bonds	17,120.2	2,241.7				
	Bond Issue 2012 Certificates of Obligation	1,881.9	16,258.0				
	Bond Issue 2008 Proceeds	950.2	200.0	<b>5,900.0</b>			<b>5,900.0</b>
	Bond Issue 2004 Proceeds	1,491.4		<b>1,158.0</b>			<b>1,158.0</b>
	Tax Notes	1.8					
	Texas Department of Transportation	1,610.4	949.7				
	Donation		50.0				
	Revenue Bond	23,624.6	20,486.1				
	<b>Total Currently Available:</b>	<b>74,928.6</b>	<b>124,069.2</b>	<b>7,058.0</b>			<b>7,058.0</b>

**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			<b>31,832.60</b>	<b>13,558.6</b>	<b>4,723.1</b>	<b>50,114.30</b>
	<b>Total Funding Source:</b>	<b>74,928.6</b>	<b>124,069.2</b>	<b>38,890.6</b>	<b>13,558.6</b>	<b>4,723.1</b>	<b>57,172.3</b>

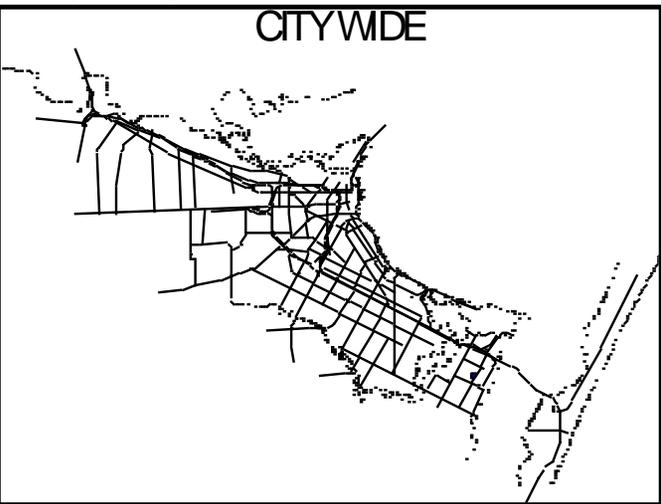
**PROJECT DESCRIPTION**

General Obligation Bond 2016: **STREETS** Sequence #01

**PROJECT TITLE: Residential Street Rebuild Program (RSRP)**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**  
 The Street Improvement Plan (SIP) is a strategy addressing maintenance and repair of the entire street system. Residential Street improvements are the final element of the SIP for program development, funding, and execution. Staff has been working to develop a citywide Residential Street Rebuild Program (RSRP). Council passed a resolution approving Test Projects which would provide up-to-date costing information for residential street reconstruction/rehabilitation and execution process information for the RSRP. With approval of the Bond 2016 RSRP on November 8, 2016 for \$11 million, finalization of street selection criteria, evaluation matrix and process steps ("RSRP Guiding Principles") is now underway.



PROJECT NOTES:	
Project No:	E17019
A/E Consultant:	Hanson Prof. Serv., Inc.
Contractor:	TBD
Award Design:	June 2017
Award Construction:	Mar 2018
Anticipated Completion:	Oct 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	63.3	10,936.7					11,000,000
<b>TOTAL:</b>	63.3	10,936.7					\$ 11,000,000

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2016 GO's	63.3	10,936.7					11,000,000
<b>TOTAL:</b>	63.3	10,936.7					\$ 11,000,000

**OPERATIONAL IMPACT:**  
 There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience

**PROJECT DESCRIPTION**

General Obligation Bond 2016: STREETS

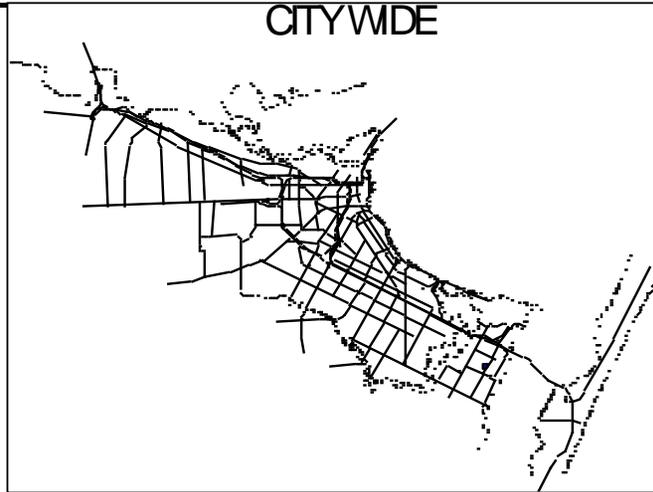
Sequence #02

**PROJECT TITLE: ADA Improvements**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project provides for continuation of City-wide ADA Accessibility improvements. The proposed improvements will continue coordination with the Street Preventative Maintenance Program to maximize resources and overall impacts for the city. The work plan will include remaining transportation associated improvements from the 2003 ADA Transition Plan and coordination with Committee for Persons with Disabilities.



**PROJECT NOTES:**

Project No: E17037  
 A/E Consultant: N/A  
 Contractor: N/A  
 Award Design: N/A  
 Award Construction: N/A  
 Anticipated Completion: N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS		2,500.0					2,500,000
<b>TOTAL:</b>		2,500.0					
Source of Funds							
Bond Issue 2016 GO's		2,500.0					2,500,000
<b>TOTAL:</b>		2,500.0					\$ 2,500,000

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this is a requirement for all street construction.

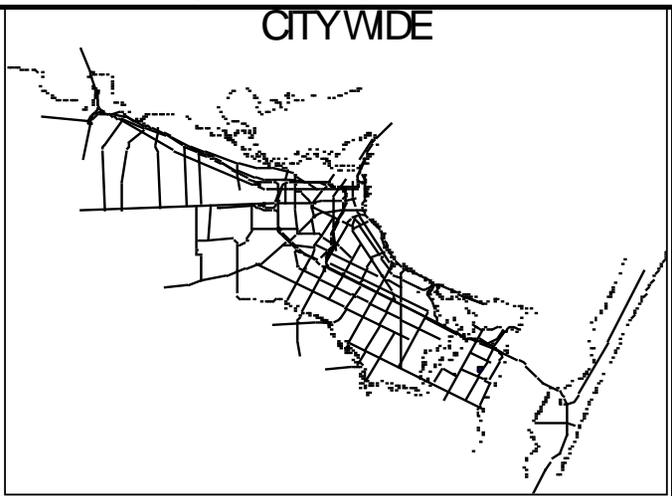
**PROJECT DESCRIPTION**

General Obligation Bonds: **STREETS** Sequence #03

**PROJECT TITLE: Texas Department of Transportation Participation Projects**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**  
 These projects provide for continuation of program to obtain matching funds and leverage State and Federal funding. Current projects include the new signalized intersection at PR 22 and Aquarius, MPO Regional Parkway Study, North Padre Island Access Management Study, Highway Safety Improvement Program (HSIP) and for transportation related projects including new bicycle and pedestrian improvements. The bicycle and pedestrian infrastructure improvements will be in accordance with Strategic Plan for Active Mobility to create mobility options by strengthening walkable and/or bikeable connections to key destinations. This includes funding from Bond Issues in 2012, 2014 and 2016.



PROJECT NOTES:	
Project No:	E17038
	Various
A/E Consultant:	N/A
Contractor:	N/A
Award Design:	N/A
Award Construction:	N/A
Anticipated Completion:	N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	2,700.3	3,299.7					\$ 6,000,000
<b>TOTAL:</b>	2,700.3	3,299.7					\$ 6,000,000

Source of Funds							
Bond Issue 2016 GO's		2,350.0					2,350,000
Bond Issue 2014	1,636.7	863.3					2,500,000
Bond Issue 2012	1,063.6	86.4					1,150,000
<b>TOTAL:</b>	2,700.3	3,299.7					\$ 6,000,000

**OPERATIONAL IMPACT:**  
 There is no direct operational budget impact, but this will leverage city funding to construct larger projects.

**PROJECT DESCRIPTION**

General Obligation Bonds: **STREETS**

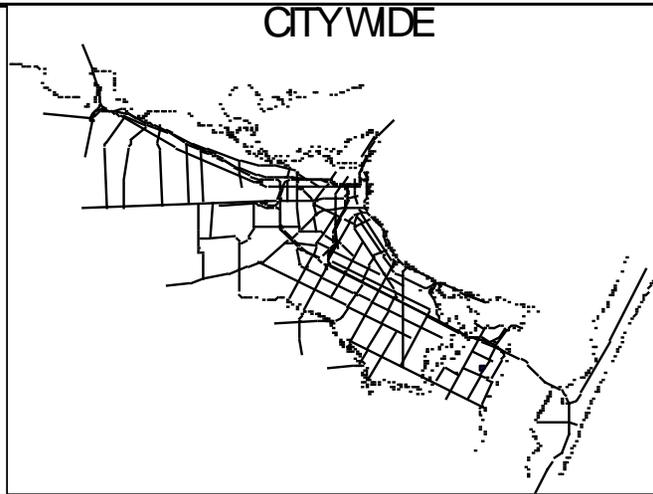
Sequence #04

**PROJECT TITLE: Developer Participation Projects**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project provides funding for the City's share of street and bridge construction projects associated with new developments when the Unified Development Code (UDC) requires City participation. This helps the City ensure that public interest is served by upgrading collector and arterial street infrastructure within new developments and conform with adopted City Master Plans. This contains funding from Bond Issues 2012 and 2016.



**PROJECT NOTES:**

Project No:	Various
A/E Consultant:	Various
Contractor:	N/A
Award Design:	N/A
Award Construction:	N/A
Anticipated Completion:	N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	2,502.1	3,011.8					5,513,900
<b>TOTAL:</b>	2,502.1	3,011.8					<b>\$ 5,513,900</b>
Source of Funds							
Bond Issue 2016 GO's		2,500.0					2,500,000
Bond Issue 2012	2,502.1	511.8					3,013,900
<b>TOTAL:</b>	2,502.1	3,011.8					<b>\$ 5,513,900</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience

**PROJECT DESCRIPTION**

Certificate Obligation Bond 2016: STREETS

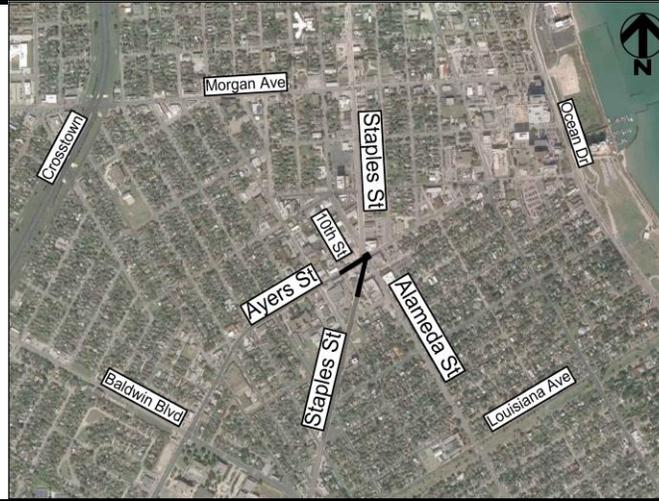
Sequence #05

**PROJECT TITLE: Six Points Intersection Improvements**

*Consistent with the Comprehensive Plan*

**DESCRIPTION:**

Continuation of Bond 2012 and 2014 projects for Ayers, Staples, and Alameda fully reconstruct the 6-points intersection and comply with traffic signal phasing on nearby projects. Other improvements for 6-points intersection provide street restoration on Ayers and Staples to 10th Street, including upgraded traffic signals, ADA ramps, curb and gutter, sidewalks, signage and pavement markings. Utility upgrades for water, storm water, wastewater, and gas will be necessary to finalize connections with other bond street repairs.



**PROJECT NOTES:**

Project No: E17036  
 A/E Consultant: FNI  
 Contractor: TBD  
 Award Design: FY 2017  
 Award Construction: FY 2019  
 Anticipated Completion: FY 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS		3,750.0					3,750,000
STORM WATER			469.0	1,400.0	1,400.0		3,269,000
WASTEWATER			225.0	625.0	625.0		1,475,000
WATER			234.0	750.0	750.0		1,734,000
GAS			10.0	30.0	30.0		70,000
<b>TOTAL:</b>		3,750.0	938.0	2,805.0	2,805.0		<b>\$ 10,298,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2016 CO's		3,750.0					3,750,000
Revenue Bonds			938.0	2,805.0	2,805.0		6,548,000
<b>TOTAL:</b>		3,750.0	938.0	2,805.0	2,805.0		<b>\$ 10,298,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience

**PROJECT DESCRIPTION**

Certificate Obligation Bond 2016: STREETS

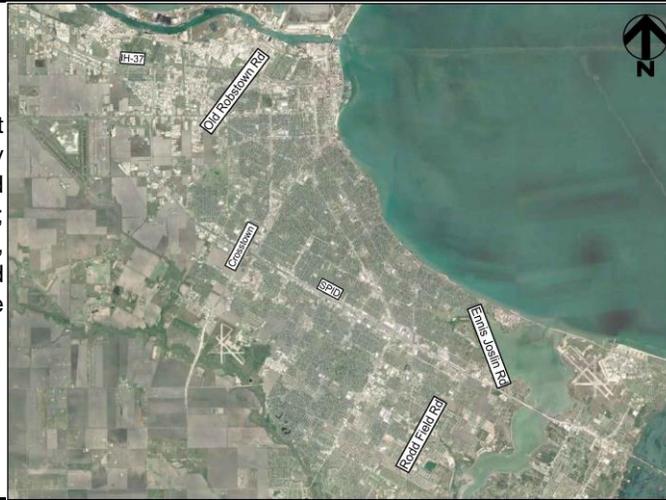
Sequence #06

**PROJECT TITLE: Street Lighting Improvements**

*Consistent with the Comprehensive Plan*

**DESCRIPTION:**

As part of the continuation Bond 2014 approved package, this project provides street lighting upgrades to selected citywide Bond streets currently in design. Street projects receiving street lighting are Rodd Field Road Expansion (Saratoga - Yorktown); Ennis Joslin Extension (Holly - Williams); and Old Robstown Road (HWY 44 - Leopard). In coordination with AEP, work includes design and construction elements for luminare poles and equipment for conduit and ground boxes to provide lighting to back of the sidewalks.



**PROJECT NOTES:**

Project No:	E17027
A/E Consultant:	MBITS
Contractor:	Various
Award Design:	May 2017
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	48.4	1,951.6					2,000,000
<b>TOTAL:</b>	48.4	1,951.6					<b>\$ 2,000,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2016 CO's	48.4	1,951.6					2,000,000
<b>TOTAL:</b>	48.4	1,951.6					<b>\$ 2,000,000</b>

**OPERATIONAL IMPACT:**

This project will improve safety conditions and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

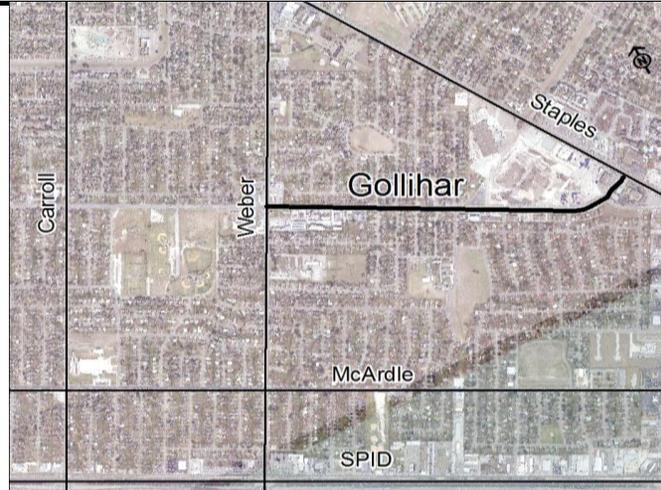
Sequence #07

**PROJECT TITLE: Gollihar Road - South Staples Street to Weber Road**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 5-lane roadway with new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. Gas improvements will be installed by city gas department. This project includes off-street cycle tracks on both sides for casual bike transit. Traffic signal and pedestrian push-button improvements are provided, improving Weber Road intersection.



**PROJECT NOTES:**

Project No: E13087  
 A/E Consultant: Hanson Prof. Services  
 Contractor: Bay Ltd.  
 Award Design: Jan 2014  
 Award Construction: Mar 2017  
 Anticipated Completion: Apr 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	6,219.0	1,280.4					7,499,400
STORM WATER	1,023.0		1,930.4	643.5			3,596,900
WASTEWATER	99.3	8.7	210.8	70.3			389,100
WATER	1,128.6						1,128,600
GAS	30.9		20.0				50,900
<b>TOTAL:</b>	8,500.8	1,289.1	2,161.2	713.8			<b>\$ 12,664,900</b>
Source of Funds							
Bond Issue 2014	5,427.6	987.6					6,415,200
Tax Notes	791.4	292.8					1,084,200
Revenue Bonds	2,281.8	8.7	2,161.2	713.8			5,165,500
<b>TOTAL:</b>	8,500.8	1,289.1	2,161.2	713.8			<b>\$ 12,664,900</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

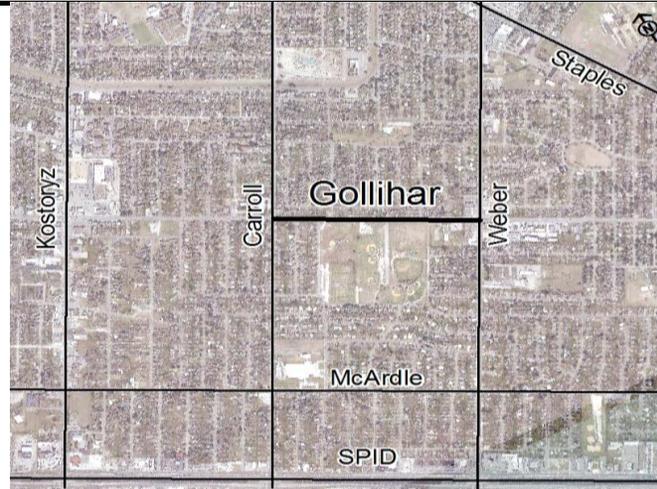
Sequence #08

**PROJECT TITLE: Gollihar Road - Weber Road to Carroll Lane**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 5-lane roadway with new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. Gas improvements will be installed by City gas department. This project includes off-street cycle tracks on both sides for casual bike transit.



**PROJECT NOTES:**

Project No: E13088  
 A/E Consultant: LJA Engineering, Inc.  
 Contractor: Haas-Anderson Con., Ltd.  
 Award Design: Feb. 2014  
 Award Construction: Feb. 2017  
 Anticipated Completion: Apr. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	3,627.5	72.0					3,699,500
STORM WATER	1,781.4		<b>876.8</b>	292.3			2,950,500
WASTEWATER	93.6		<b>204.7</b>	68.2			366,500
WATER	32.4		<b>937.5</b>	312.5			1,282,400
GAS	8.1						8,100
<b>TOTAL:</b>	5,543.0	72.0	<b>2,019.0</b>	673.0			<b>\$ 8,307,000</b>

Source of Funds							
Bond Issue 2014	3,114.1						3,114,100
Tax Notes	513.4	72.0					585,400
Revenue Bonds	1,915.5		<b>2,019.0</b>	673.0			4,607,500
<b>TOTAL:</b>	5,543.0	72.0	<b>2,019.0</b>	673.0			<b>\$ 8,307,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

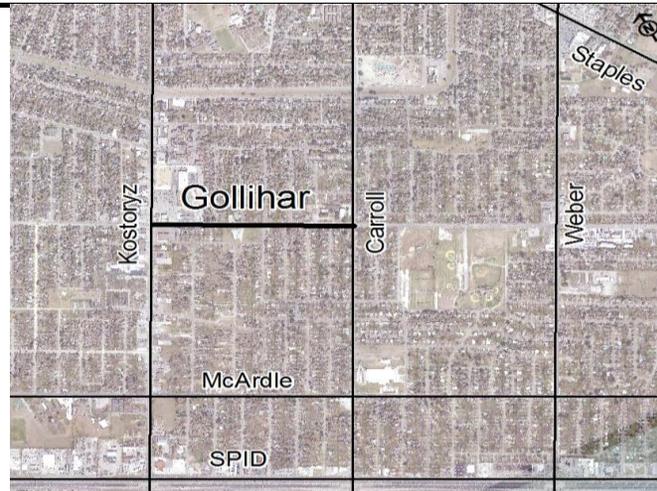
Sequence #09

**PROJECT TITLE: Gollihar Road - Carroll Lane to Kostoryz Road**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 5-lane roadway with new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. Gas improvements will be installed by city gas department. This project includes off-street cycle tracks on both sides for casual bike transit. Traffic signal, illumination and pedestrian push-button improvements are provided improving Carroll Lane intersection.



**PROJECT NOTES:**

Project No: E13089  
 A/E Consultant: LJA Engineering, Inc.  
 Contractor: Haas-Anderson Con., Ltd.  
 Award Design: Feb. 2014  
 Award Construction: Feb. 2017  
 Anticipated Completion: Apr. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	2,985.4	714.6					3,700,000
STORM WATER	2,794.7	232.7					3,027,400
WASTEWATER	367.0						367,000
WATER	1,282.2						1,282,200
GAS	8.1						8,100
<b>TOTAL:</b>	<b>7,437.4</b>	<b>947.3</b>					<b>\$ 8,384,700</b>
Source of Funds							
Bond Issue 2014	2,525.0	590.5					3,115,500
Tax Notes	460.4	124.1					584,500
Revenue Bonds	4,452.0	232.7					4,684,700
<b>TOTAL:</b>	<b>7,437.4</b>	<b>947.3</b>					<b>\$ 8,384,700</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

Sequence #10

**PROJECT TITLE: Morgan Avenue - Ocean Drive to South Staples Street**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes full depth reconstruction of existing 4-lane roadway with new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. This project is being coordinated with Spohn Hospital construction and Bond 2012 section of Morgan from Staples to South Padre Island Drive.



**PROJECT NOTES:**

Project No: E13090  
 A/E Consultant: LJA Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jan 2014  
 Award Construction: Jul 2018  
 Anticipated Completion: Jun 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	424.6	2,375.3					2,799,900
STORM WATER	141.5		180.0	1,800.2	600.0		2,721,700
WASTEWATER	73.5		11.3	113.9	38.0		236,700
WATER	71.5		31.3	313.5	105.0		521,300
<b>TOTAL:</b>	711.1	2,375.3	222.6	2,227.6	743.0		<b>\$ 6,279,600</b>

Source of Funds							
Bond Issue 2014	7.7	2,280.5					2,288,200
Tax Notes	416.9	94.8					511,700
Revenue Bonds	286.5		222.6	2,227.6	743.0		3,479,700
<b>TOTAL:</b>	711.1	2,375.3	222.6	2,227.6	743.0		<b>\$ 6,279,600</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

2014 Proposition One: **STREETS**

Sequence #11

**PROJECT TITLE: Corona Drive - Flynn Parkway to Everhart Road**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing roadway providing two traffic lanes and a continuous center turn-lane with new curb and gutter, sidewalks, ADA ramps and pavement markings. The existing roadway begins at Flynn Parkway as a 2-lane roadway and widens to 5-lanes at the approach to Everhart/Corona intersection. The project includes off-street cycle tracks on both sides for casual bike transit. Utility improvements include water, wastewater, storm water and gas. From Corona, the project also provides an access road (Island Gate Way) connecting the Island Gate Plaza for emergency vehicles, improving traffic safety, and relieving traffic congestion along Everhart and SPID. Traffic signal and pedestrian push-button improvements are added to improve traffic safety at the Everhart intersection.



**PROJECT NOTES:**

Project No: E13091  
 A/E Consultant: Govind Dev., LLC  
 Contractor: Bay Ltd.  
 Award Design: Jan 2014  
 Award Construction: July 2017  
 Anticipated Completion: Apr 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	717.0	2,963.3					3,680,300
STORM WATER	43.7	451.9	200.0				695,600
WASTEWATER	54.6	26.5					81,100
WATER	50.5	321.5	250.0				622,000
GAS		9.9					9,900
<b>TOTAL:</b>	<b>865.8</b>	<b>3,773.1</b>	<b>450.0</b>				<b>\$ 5,088,900</b>
Source of Funds							
Bond Issue 2008		200.0					\$200,000
Bond Issue 2014	451.0	2,714.0					3,165,000
Tax Notes	266.0	49.3					315,300
Revenue Bonds	148.8	809.8	450.0				1,408,600
<b>TOTAL:</b>	<b>865.8</b>	<b>3,773.1</b>	<b>450.0</b>				<b>\$ 5,088,900</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

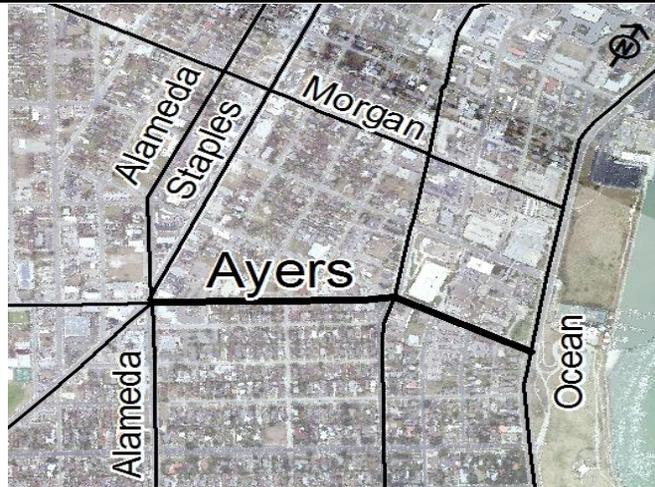
Sequence #12

**PROJECT TITLE: Ayers Street - Ocean Drive to Alameda Street**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction and narrowing (road diet) of existing 4-lane roadway to a 3-lane roadway with continuous center turn lane. Improvements include new curb and gutter, widened sidewalks, ADA ramps, signage and pavement markings. Utility improvements include water, wastewater, storm water and gas. This project also includes reconfiguration of Ayers/Booty intersection that converts Booty to one-way from Ayers to Fifth Avenue. This roadway re-designation and intersection reconfiguration are proposed to improve traffic flow and safety by replacing on-street head-in parking on Ayers with diagonal parking on Booty.



**PROJECT NOTES:**

Project No: E13092  
 A/E Consultant: Freese & Nichols, Inc.  
 Contractor: Clark Pipeline Services, J.V.  
 Award Design: Feb 2014  
 Award Construction: Apr 2017  
 Anticipated Completion: May 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	949.0	2,951.0					3,900,000
STORM WATER	163.4	1,696.0					1,859,400
WASTEWATER	97.1	615.0					712,100
WATER	78.4	778.6					857,000
GAS		8.7					8,700
<b>TOTAL:</b>	<b>1,287.9</b>	<b>6,049.3</b>					<b>\$ 7,337,200</b>
Source of Funds							
Bond Issue 2014	326.7	2,951.0					3,277,700
Tax Notes	622.3						622,300
Revenue Bonds	338.9	3,098.3					3,437,200
<b>TOTAL:</b>	<b>1,287.9</b>	<b>6,049.3</b>					<b>\$ 7,337,200</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

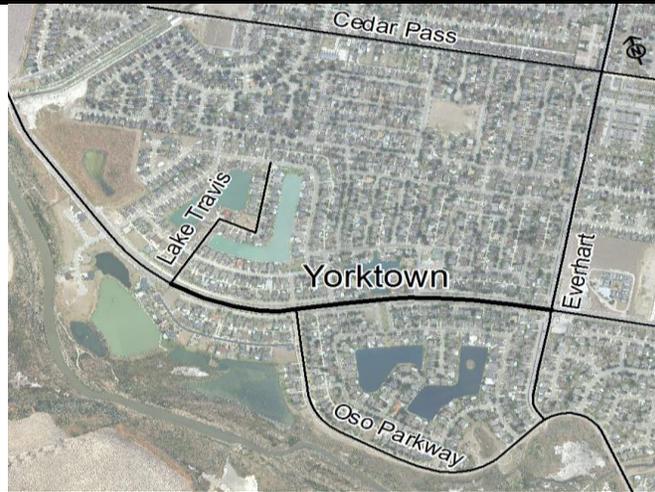
Sequence #13

**PROJECT TITLE: Yorktown Boulevard - Lake Travis to Everhart Road**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth rehabilitation of existing 4-lane roadway with raised median, to include mill and overlay and full-depth repairs for ruts and potholes. Improvements also include partial replacement of curb and gutter, sidewalks, ADA ramps and pavement markings. There are utility repairs required on this street segment. Additional improvements include landscaping, irrigation, and in-place street lighting upgrades along the roadway median. Project also provides continuity of current Yorktown bicycle system through on-street pavement markings (sharrow's) for casual bike transit, with no new construction required.



**PROJECT NOTES:**

Project No:	E13093
A/E Consultant:	LNV, Inc.
Contractor:	TBD
Award Design:	Jan. 2014
Award Construction:	Dec. 2017
Anticipated Completion:	Mar. 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	668.7	3,031.2					3,699,900
STORM WATER	251.5						251,500
WASTEWATER	129.9						129,900
WATER	107.5						107,500
<b>TOTAL:</b>	<b>1,157.6</b>	<b>3,031.2</b>					<b>\$ 4,188,800</b>

Source of Funds							
Bond Issue 2014	48.9	3,027.3					3,076,200
Tax Notes	619.8	3.9					623,700
Revenue Bonds	488.9						488,900
<b>TOTAL:</b>	<b>1,157.6</b>	<b>3,031.2</b>					<b>\$ 4,188,800</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

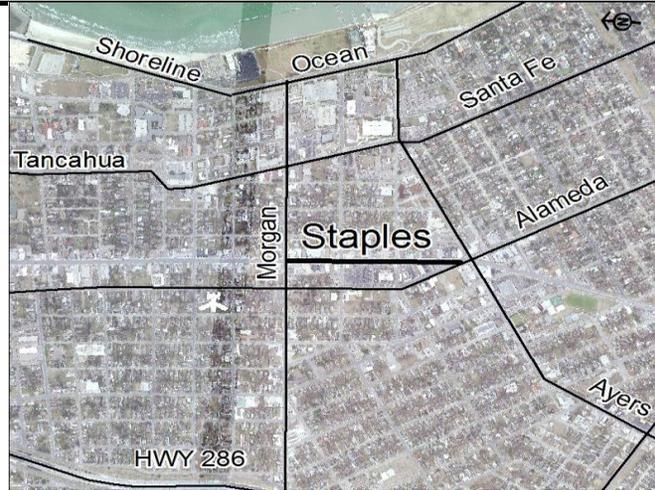
Sequence #14

**PROJECT TITLE: South Staples Street - Alameda Street to Morgan Avenue**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes full depth reconstruction of existing 4-lane roadway, lip to lip curb, while maintaining current on-street parking and driving lane configuration. Improvements also include ADA ramps and pavement markings. Utility improvements include water, wastewater, and storm water.



**PROJECT NOTES:**

Project No: E13094  
 A/E Consultant: HDR Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jan. 2014  
 Award Construction: Sep. 2017  
 Anticipated Completion: Dec. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	465.7	2,434.3					2,900,000
STORM WATER	149.9		990.0	330.0			1,469,900
WASTEWATER			528.0	176.0			704,000
WATER	72.0		495.0	165.0			732,000
			30.0				
<b>TOTAL:</b>	687.6	2,434.3	<b>2,043.0</b>	671.0			<b>\$ 5,835,900</b>

Source of Funds							
Bond Issue 2014	28.4	2,431.1					2,459,500
Tax Notes	437.3	3.2					440,500
Revenue Bonds	221.9		2,043.0	671.0			2,935,900
<b>TOTAL:</b>	687.6	2,434.3	<b>2,043.0</b>	671.0			<b>\$ 5,835,900</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

Sequence #15

**PROJECT TITLE: Yorktown Boulevard - Everhart Road to South Staples Street**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 4-lane roadway with raised median and bike lanes that continue on Yorktown from Rodd Field to Everhart. Improvements include replacement of curb and gutter, widened sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. This project also includes new traffic signals at Yorktown/Everhart intersection with new poles, mast arms, controller, etc. to replace existing 4-way stop. Additional improvements include street lighting along roadway.



**PROJECT NOTES:**

Project No: E13096  
 A/E Consultant: Freese & Nichols, Inc.  
 Contractor: Bay Ltd.  
 Award Design: Feb. 2014  
 Award Construction: Apr. 2017  
 Anticipated Completion: Nov. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	925.2	6,434.8					7,360,000
STORM WATER	221.4	2,162.7					2,384,100
WASTEWATER	111.1	7.0					118,100
WATER	89.7	85.8	100.0	800.0			1,075,500
GAS		10.0					10,000
<b>TOTAL:</b>	<b>1,347.4</b>	<b>8,700.3</b>	<b>100.0</b>	<b>800.0</b>			<b>\$ 10,947,700</b>

Source of Funds							
Bond Issue 2014	109.1	6,426.7					6,535,800
Tax Notes	816.1	8.1					824,200
Revenue Bonds	422.2	2,265.5	100.0	800.0			3,587,700
<b>TOTAL:</b>	<b>1,347.4</b>	<b>8,700.3</b>	<b>100.0</b>	<b>800.0</b>			<b>\$ 10,947,700</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

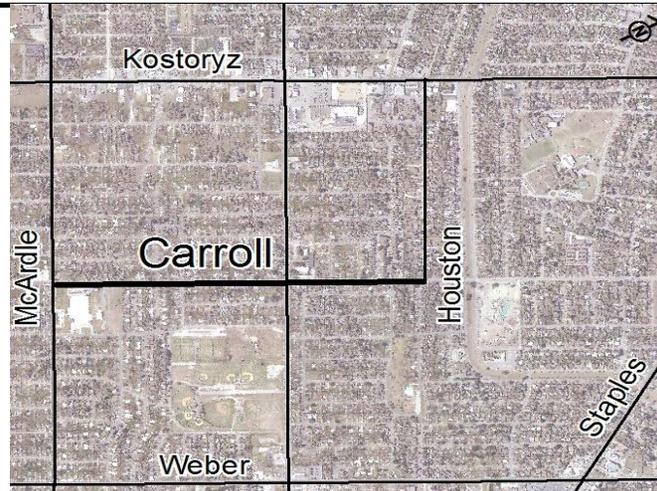
Sequence #16

**PROJECT TITLE: Carroll Lane - McArdle Road to Houston Street**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes full depth reconstruction of existing 2-lane roadway and turn-lanes with new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. Additional underground storm water lines will extend from Houston to Brawner Parkway outfall. The project includes off-street cycle tracks on both sides for casual bike transit and also restores curbside parallel parking on one side of the street.



**PROJECT NOTES:**

Project No: E13097  
 A/E Consultant: Martinez, Guy & Maybik, Inc.  
 Contractor: Haas-Anderson Con., Ltd.  
 Award Design: Jan. 2014  
 Award Construction: Jun. 2017  
 Anticipated Completion: Jul. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	351.1	2,848.9					3,200,000
STORM WATER	160.4	438.2	1,641.5				2,240,100
WASTEWATER	74.5	493.9					568,400
WATER	62.4	366.3	450.0				878,700
GAS		36.6					36,600
<b>TOTAL:</b>	648.4	4,183.9	2,091.5				<b>\$ 6,923,800</b>
<b>Source of Funds</b>							
Bond Issue 2014	17.4	2,842.2					2,859,600
Tax Notes	333.7	6.7					340,400
Revenue Bonds	297.3	1,335.0	2,091.5				3,723,800
<b>TOTAL:</b>	648.4	4,183.9	2,091.5				<b>\$ 6,923,800</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition One: STREETS**

Sequence #17

**PROJECT TITLE: Old Robstown Road - State Highway 44 to Leopard Street**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 2-lane roadway to a 3-lane roadway with continuous center turn-lane and two travel lanes. Improvements include new curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, storm water and gas. This project includes sidewalks on both sides of the road with a bidirectional cycle track on one-side of the road. Additional street lighting improvements are included along roadway.



**PROJECT NOTES:**

Project No: E13098  
 A/E Consultant: CH2M HILL, Inc.  
 Contractor: Haas-Anderson Con., Ltd.  
 Award Design: Apr 2014  
 Award Construction: Jul 2017  
 Anticipated Completion: Jul 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	486.8	2,547.7					3,034,500
STORM WATER	127.5	379.6	2,420.0				2,927,100
WASTEWATER	66.3	48.9					115,200
WATER	61.2	348.5					409,700
GAS		0.5	1.0				1,500
<b>TOTAL:</b>	741.8	3,325.2	2,421.0				<b>\$ 6,488,000</b>

Source of Funds							
Bond Issue 2014	103.6	2,542.6					2,646,200
Tax Notes	383.2	5.1					388,300
Revenue Bonds	255.0	777.5	2,421.0				3,453,500
<b>TOTAL:</b>	741.8	3,325.2	2,421.0				<b>\$ 6,488,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #18

**PROJECT TITLE: Ayers Street - Pedestrian Improvements and Turn Lane Addition**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project addresses pedestrian and vehicular safety along Ayers Corridor from SPID to Gollihar Road. Roadway improvements include new center turn lane with designated turn lanes at intersections of Ayers Street & Mansheim Blvd. and Ayers Street & Sunnybrook Road. Pedestrian improvements include crosswalks, new sidewalks, curb & gutter, ADA ramps, and storm water lines. Through Interlocal Agreement with RTA, pedestrian improvements will be extended from Gollihar Road to bus transfer station at intersection of Ayers Street & Port Avenue.



**PROJECT NOTES:**

Project No: E15106  
 A/E Consultant: Lockwood, Andrews & Newman, Inc.  
 Contractor: TBD  
 Award Design: Jun. 2015  
 Award Construction: Sep. 2017  
 Anticipated Completion: Oct. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	812.1	1,114.6					1,926,700
STORM WATER			3,000.0				3,000,000
WASTEWATER			60.0				60,000
WATER		30.0	750.0				780,000
GAS							
<b>TOTAL:</b>	812.1	1,144.6	3,810.0				\$ 5,766,700

Source of Funds							
Bond Issue 2014	812.1	1,114.6					1,926,700
Tax Notes							
Revenue Bonds		30.0	3,810.0				3,840,000
<b>TOTAL:</b>	812.1	1,144.6	3,810.0				\$ 5,766,700

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #19

**PROJECT TITLE: Chaparral Street Phase 2 - Schatzel to Taylor**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project will continue the Chaparral Street improvements northbound from Schatzel Street to Taylor Street with minor modifications, improving on concepts from Phase 1 (William St. to Schatzel St.). New construction provides new curbs, widened sidewalks, including but not limited to textured concrete and/or pavers, street pavement, landscaping, irrigation, landscape/street lighting and upgraded signal at Taylor Street. Parking redistribution and striping at adjacent side streets provides for 2-way traffic conversion with on-street parallel parking along Chaparral. Signalization optimization is to be coordinated with Phase 1 of this project which was completed under Bond 2008.



**PROJECT NOTES:**

Project No: E15107  
 A/E Consultant: HDR Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jun 2015  
 Award Construction: Aug 2017  
 Anticipated Completion: Sep 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	431.7	4,568.2					4,999,900
STORM WATER	109.6		400.0				509,600
WASTEWATER	109.6		541.8				651,400
WATER	109.6		500.0	80.0			689,600
<b>TOTAL:</b>	760.5	4,568.2	1,441.8	80.0			<b>\$ 6,850,500</b>

Source of Funds							
Bond Issue 2014	431.7	4,568.2					4,999,900
Tax Notes							
Revenue Bonds	328.8		1,441.8	80.0			1,850,600
<b>TOTAL:</b>	760.5	4,568.2	1,441.8	80.0			<b>\$ 6,850,500</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #20

**PROJECT TITLE: Traffic Signals and Lighting Improvements - City Wide**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes various signal and lighting upgrades to improve traffic safety and reduce congestion with increased capacity. Improvements include new traffic signalization and upgrades at prioritized and warranted intersections providing new poles, mast arms, advanced signal heads, controllers, etc. with ADA provisions. Proposed signal and intersection improvements include Ennis Joslin Corridor (Spur 3) upgrades with new signals at Ennis Joslin/McArdle, McArdle/Nile, new signal at Flour Bluff/Purdue, Park Road 22 / Commodores intersection improvements, Ocean Drive Corridor upgrades and other prioritized locations.



**PROJECT NOTES:**

Project No: E15113  
 A/E Consultant: Maldonado-Burkett Intelligent Trans. Systems., LLP  
 Contractor: Various  
 Award Design: May 2015  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	1,262.6	3,737.4					5,000,000
<b>TOTAL:</b>	1,262.6	3,737.4					<b>\$ 5,000,000</b>
Source of Funds							
Bond Issue 2014	1,262.6	3,737.4					5,000,000
<b>TOTAL:</b>	1,262.6	3,737.4					<b>\$ 5,000,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve safety conditions and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2016 CO's & Bond 2014 Proposition Two: STREETS**

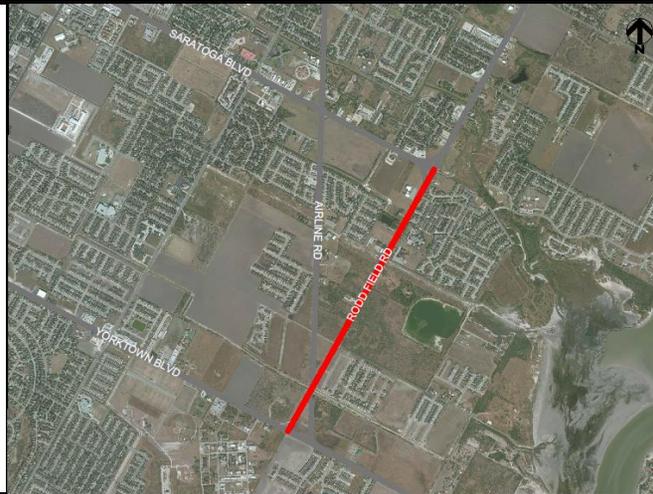
Sequence #21

**PROJECT TITLE: Rodd Field Road Expansion - Saratoga to Yorktown**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction and widening of existing 2-lane roadway to a 4-lane roadway with 30' raised grass median. Improvements include new curb and gutter, sidewalks, ADA ramps, signage and pavement markings. Utility improvements include water, wastewater, storm water and gas. This project includes buffered off-street cycle tracks on both sides for casual bike transit. In addition, through Bond 2016, this project will include reconfiguration of Rodd Field/Yorktown Intersection as a "T" to replace the "Y" configuration. Traffic signal and pedestrian push-button improvements and new turn-lanes will be provided, improving the Yorktown intersection. Additional Bond 2016 improvements include street lighting along roadway.



**PROJECT NOTES:**

Project No:	E15112
	E17035
A/E Consultant:	LJA Engineering, Inc.
Contractor:	TBD
Award Design:	May 2015
Award Construction:	Jan 2018
Anticipated Completion:	Feb 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	1,055.3	12,444.7					13,500,000
STORM WATER	227.0		2,432.9	811.0			3,470,900
WASTEWATER	22.6		206.3	68.8			297,700
WATER	56.4		882.8	294.3			1,233,500
GAS	22.6	0.4	40.0				63,000
<b>TOTAL:</b>	<b>1,383.9</b>	<b>12,445.1</b>	<b>3,562.0</b>	<b>1,174.1</b>			<b>\$ 18,565,100</b>

Source of Funds							
Bond Issue 2016		3,900.0					3,900,000
Bond Issue 2014	1,055.3	8,544.7					9,600,000
Tax Notes							
Revenue Bonds	328.6	0.4	3,562.0	1,174.1			5,065,100
<b>TOTAL:</b>	<b>1,383.9</b>	<b>12,445.1</b>	<b>3,562.0</b>	<b>1,174.1</b>			<b>\$ 18,565,100</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

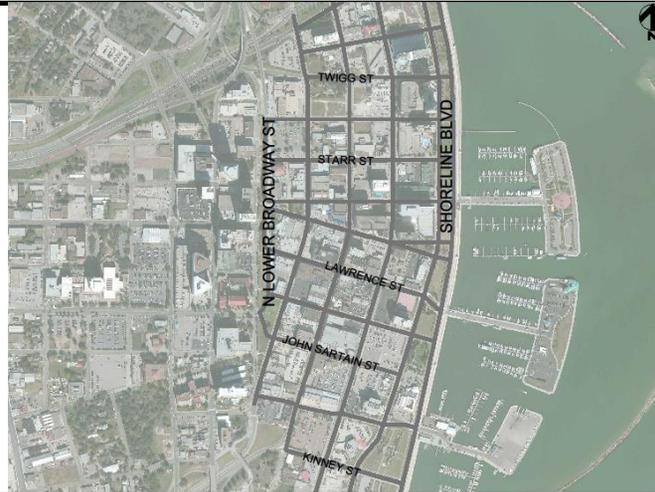
Sequence #22

**PROJECT TITLE: Downtown Street Traffic Signal and Area Improvements**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project replaces existing outdated vertical traffic signals on Water Street from approximately IH-37 to Coopers Alley with new poles, mast arms, signal heads, controllers etc. These new mast arms and poles will comply with architectural design standards in the Central Business District Area Development Plan. This project also completes traffic analysis and warrant studies for existing intersections and signals.



**PROJECT NOTES:**

Project No: E15108  
 A/E Consultant: Freese and Nichols, Inc.  
 Contractor: TBD  
 Award Design: Jun. 2015  
 Award Construction: Oct. 2017  
 Anticipated Completion: Jul. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	451.2	3,048.8					3,500,000
<b>TOTAL:</b>	451.2	3,048.8					<b>\$ 3,500,000</b>
Source of Funds							
Bond Issue 2014	451.2	3,048.8					3,500,000
<b>TOTAL:</b>	451.2	3,048.8					<b>\$ 3,500,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve safety conditions and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

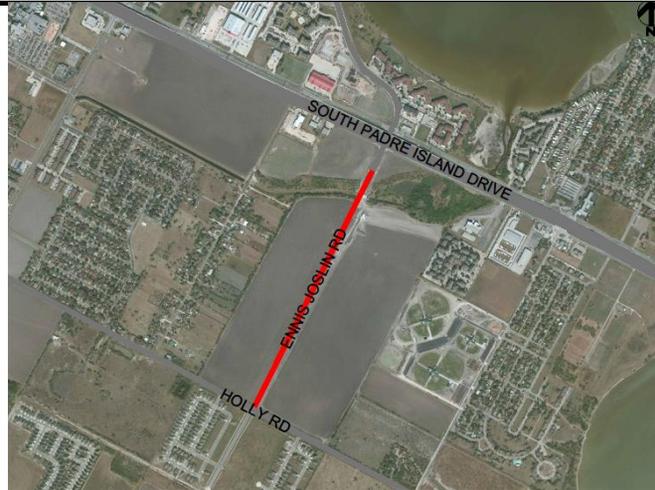
Sequence #23

**PROJECT TITLE: Ennis Joslin Extension - Holly Road to Williams Drive**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project provides extension of Ennis Joslin Road from Holly Road to Williams, with a new 4-lane roadway, curb and gutter, sidewalks, ADA ramps and pavement markings. Utility improvements include water, wastewater, and storm water. Drainage will be routed through a new open channel connecting to Paul Jones outfall. This project includes buffered off-street cycle tracks on both sides for casual bike transit. Additional improvements include street lighting along roadway.



**PROJECT NOTES:**

Project No: E15109  
 A/E Consultant: Urban Engineering  
 Contractor: Haas-Anderson Con., Ltd.  
 Award Design: Jun 2015  
 Award Construction: Mar 2017  
 Anticipated Completion: Mar 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	3,005.6	394.4					3,400,000
STORM WATER			1,500.0				1,500,000
WASTEWATER	258.2	7.4	600.0				865,600
WATER			180.0				180,000
GAS			90.0				90,000
<b>TOTAL:</b>	3,263.8	401.8	2,370.0				<b>\$ 6,035,600</b>
<b>Source of Funds</b>							
Bond Issue 2014	3,005.6	401.8					3,407,400
Revenue Bonds	258.2		2,370.0				2,628,200
<b>TOTAL:</b>	3,263.8	401.8	2,370.0				<b>\$ 6,035,600</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #24

**PROJECT TITLE: Flato Road - Agnes to Bates**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes full depth reconstruction of existing 2-lane rural collector roadway with roadside ditches. Improvements include new pavement surface, curb and gutter, pavement markings and ditch grading. Utility improvements include water, wastewater, and storm water. Storm water will be conveyed to outfall at Bates and into a new underground storm pipe to Enterprize Ditch.



**PROJECT NOTES:**

Project No: E15110  
 A/E Consultant: CH2M HILL, Inc.  
 Contractor: TBD  
 Award Design: Jun 2015  
 Award Construction: Nov 2017  
 Anticipated Completion: Mar 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	620.0	2,880.0					3,500,000
STORM WATER			1,606.3	535.4			2,141,700
WASTEWATER							
WATER		87.7	600.0	200.0			887,700
GAS			28.0				28,000
<b>TOTAL:</b>	620.0	2,967.7	2,234.3	735.4			\$ 6,557,400

Source of Funds							
Bond Issue 2014	620.0	2,880.0					3,500,000
Revenue Bonds		87.7	2,234.3	735.4			3,057,400
<b>TOTAL:</b>	620.0	2,967.7	2,234.3	735.4			\$ 6,557,400

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #25

**PROJECT TITLE: North Padre Island Beach Access Roads (3A and 2)**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project includes reconstruction existing deteriorated beach access roads on North Padre Island, to including Beach Access Road 3A and 2. The proposed improvements will include reinforced concrete pavement structure, grading for surface drainage, slope and soil stabilization pavement markings and signage.



**PROJECT NOTES:**

3A - Project No:	E15111
2 - Project No:	E16452
3A - A/E Consultant:	Govind Dev., Inc.
3A - Contractor:	JE Construction
2 - A/E Consultant:	Govind Dev., Inc.
2 - Contractor:	TBD
3A - Award Design:	Jun 2015
2 - Award Design:	Jun 2015
3A - Award Construction:	Dec 2016
2 - Award Construction:	Aug 2017
3A - Anticipated Completion:	Apr 2017
2 - Anticipated Completion:	Nov 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	578.2	2,921.8					3,500,000
STORM WATER							-
WASTEWATER							
WATER							
GAS							
<b>TOTAL:</b>	578.2	2,921.8					<b>\$ 3,500,000</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2014	578.2	2,921.8					3,500,000
Tax Notes							
Revenue Bonds							-
<b>TOTAL:</b>	578.2	2,921.8					<b>\$ 3,500,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

Proposed Bond 2014 Proposition Two: **STREETS**

Sequence #26

**PROJECT TITLE: Downtown Road and Streetscape Improvements**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes improvements to downtown streetscapes such as wayfinding signage for the greater Downtown area, new trash cans, and improvements to identified gateways such as Laredo/Agnes and Mesquite at I37. The gateway areas should create a sense of arrival into the Marina Arts District and promote their branding. Other streetscape improvements may include planters with landscaping, decorative medallions on existing street light poles, repairs to Coppini Water Fountain at Lower Broadway, and decorative cross walks applied to roadway surface. These improvements will be spread over downtown district identified as the area between I-37 and Cooper's Alley and Lower Broadway and Shoreline Drive, with Water Street receiving additional focus of these elements.



**PROJECT NOTES:**

Project No:	E15098
A/E Consultant:	Freese and Nichols, Inc.
Contractor:	TBD
Award Design:	Jun. 2015
Award Construction:	Oct. 2017
Anticipated Completion:	May 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	209.6	1,290.4					1,500,000
<b>TOTAL:</b>	209.6	1,290.4					<b>\$ 1,500,000</b>
Source of Funds							
Bond Issue 2014	209.6	1,290.4					1,500,000
Tax Notes							
Revenue Bonds							
<b>TOTAL:</b>	209.6	1,290.4					<b>\$ 1,500,000</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience

**PROJECT DESCRIPTION**

**Bond 2014 Proposition Two: STREETS**

Sequence #27

**PROJECT TITLE: Creek View Drive Extension**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project provides extension of Creek View Drive from McKenzie Road to Creek Side Drive, in the Maple Hills subdivision. New construction includes 2-lane roadway, curb and gutter, sidewalks, and ADA ramps and pavement markings. Utilities include Water, Gas and Storm Water.



**PROJECT NOTES:**

Project No: E15122  
 A/E Consultant: Maverick Eng., Inc.  
 Contractor: MAX Underground Construction LLC  
 Award Design: Aug 2015  
 Award Construction: Jun 2017  
 Anticipated Completion: Oct 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	253.4	41.6					295,000
STORM WATER		143.5					143,500
WASTEWATER		138.4					138,400
WATER							
GAS		3.6					3,600
<b>TOTAL:</b>	253.4	327.1					<b>\$ 580,500</b>
<b>Source of Funds</b>							
Bond Issue 2014	253.4	327.1					580,500
Revenue Bonds							
<b>TOTAL:</b>	253.4	327.1					<b>\$ 580,500</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will improve the road to accommodate heavier traffic flows and provide a safer driving experience

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

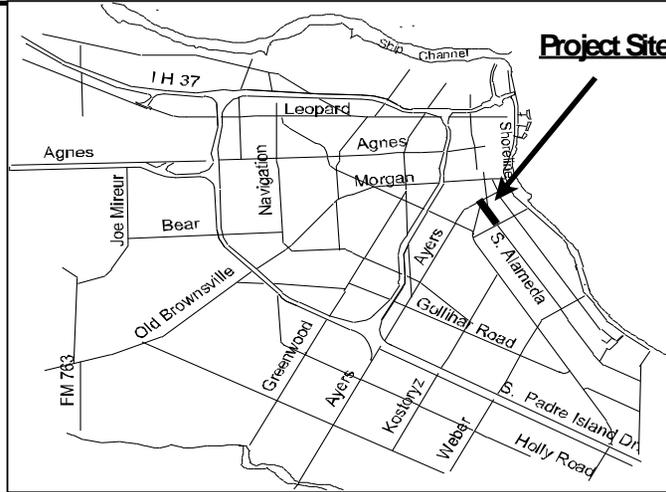
Sequence #28

**PROJECT TITLE: South Alameda Street - Ayers Street to Louisiana Avenue**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project consists of full-depth repair and reconstruction of existing roadway from Ayers to Louisiana. Commercial section of the road, Ayers to Clifford, will remain four lanes with a median and Clifford to Louisiana residential section will be reduced to three lane section with continuous left turn lane. Project includes off-street cycle tracks on both sides for casual bike transit. Other improvements include ADA ramps, curb and gutter, sidewalk, bus stop rehabilitation and pavement markings. Underground City utilities (Storm Water, Water, Wastewater and Gas) as necessary, are included.



PROJECT NOTES:	
Project No:	E12091
A/E Consultant:	HDR Engineering, Inc.
Contractor:	Clark Pipeline Serv., J.V.
Award Design:	Jan. 2013
Award Construction:	Mar. 2017
Anticipated Completion:	Jul. 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	451.7	2,690.8					3,142,500
STORM WATER	192.5	92.8	1,000.0				1,285,300
WASTEWATER	95.1	415.1	201.2	26.8			738,200
WATER	45.3		660.0				705,300
GAS	14.1	80.2	2.0				96,300
<b>TOTAL:</b>	798.7	3,278.9	1,863.2	26.8			<b>\$ 5,967,600</b>

Source of Funds							
Bond Issue 2012 GO	11.8	72.7					84,500
Bond Issue 2012 CO	439.9	2,618.1					3,058,000
Revenue Bonds	347.0	588.1	1,863.2	26.8			2,825,100
<b>TOTAL:</b>	798.7	3,278.9	1,863.2	26.8			<b>\$ 5,967,600</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

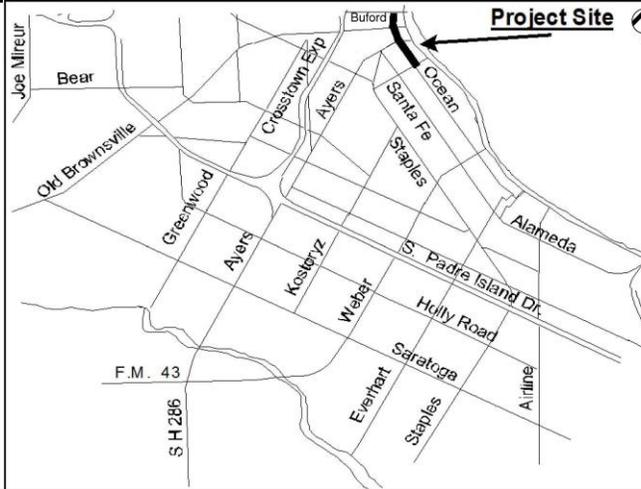
Sequence #29

**PROJECT TITLE: Ocean Drive - Buford Street to Louisiana Avenue**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

This project includes full-depth repair and narrowing of existing six lane roadway to four lane roadway with divided median and on-street bike lanes. Improvements include curb and gutter, sidewalks, ADA curb ramps, and pavement markings. Project also includes slope stabilization along Corpus Christi Bay bluff side of roadway. Utility improvements include water, wastewater, storm water and gas. New and upgraded traffic signals are included as well as High Intensity Activated crosswalk (HAWK) device allowing pedestrians to safely cross at Del Mar.



**PROJECT NOTES:**

Project No: E12093  
 A/E Consultant: Freese and Nichols, Inc.  
 Contractor: Bay Ltd.  
 Award Design: Jan. 2013  
 Award Construction: Jan. 2016  
 Anticipated Completion: Nov. 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	7,277.1						7,277,100
STORM WATER	3,107.1		1,800.0				4,907,100
WASTEWATER	766.8	22.2	165.0				954,000
WATER	1,616.5	0.3	1,000.0				2,616,800
GAS	9.6		50.0				59,600
<b>TOTAL:</b>	12,777.1	22.5	3,015.0				<b>\$ 15,814,600</b>
<b>Source of Funds</b>							
Bond Issue 2012 GO	7,277.1						7,277,100
Bond Issue 2012 CO		22.5					22,500
Revenue Bonds	5,500.0		3,015.0				8,515,000
<b>TOTAL:</b>	12,777.1	22.5	3,015.0				<b>\$ 15,814,600</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

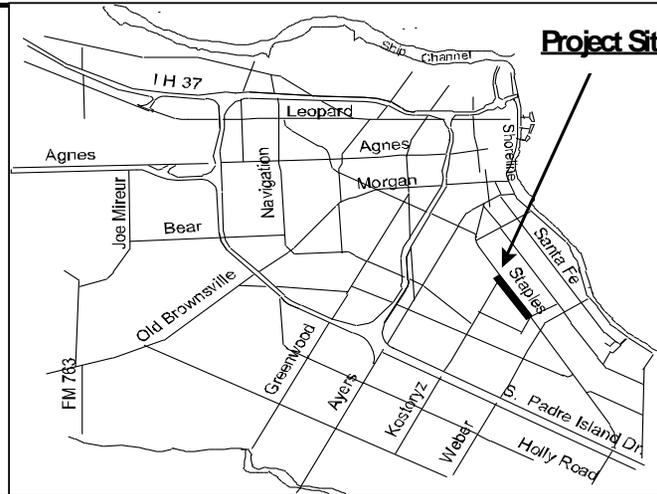
Sequence #30

**PROJECT TITLE: South Staples Street - Brawner Parkway to Kostoryz Road**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

This project consists of full-depth reconstruction of existing roadway to include four-lane roadway with a continuous center left turn lane. Improvements include curb and gutter, wide sidewalks, ADA curb ramps, pavement markings and bus stops. Utility improvements include water, wastewater, storm water, and gas.



**PROJECT NOTES:**

Project No: E12095  
 A/E Consultant: Freese and Nichols, Inc.  
 Contractor: TBD  
 Award Design: Jan. 2013  
 Award Construction: Oct. 2017  
 Anticipated Completion: May 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	619.0	6,504.6					7,123,600
STORM WATER	278.9	2,289.1	174.0				2,742,000
WASTEWATER	48.1	838.3	376.0	125.3			1,387,700
WATER	76.5	144.3	500.0				720,800
GAS	5.9	27.3	40.0				73,200
<b>TOTAL:</b>	<b>1,028.4</b>	<b>9,803.6</b>	<b>1,090.0</b>	<b>125.3</b>			<b>\$ 12,047,300</b>

Source of Funds							
Bond Issue 2012 GO	2.0	121.6					123,600
Bond Issue 2012 CO	617.0	6,383.0					7,000,000
Revenue Bonds	409.4	3,299.0	1,090.0	125.3			4,923,700
<b>TOTAL:</b>	<b>1,028.4</b>	<b>9,803.6</b>	<b>1,090.0</b>	<b>125.3</b>			<b>\$ 12,047,300</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

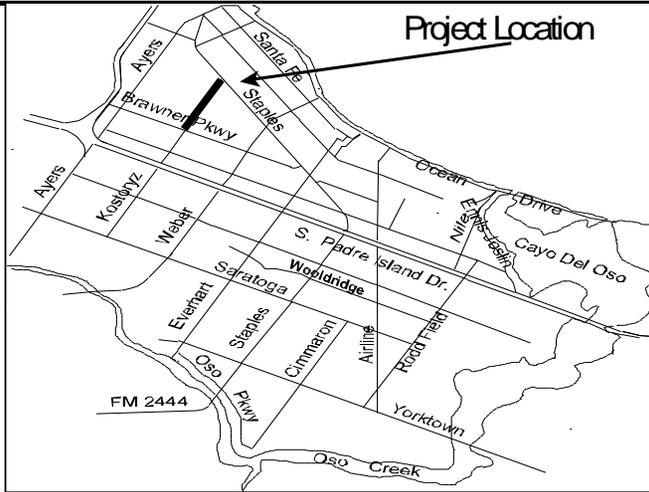
Sequence #31

**PROJECT TITLE: Kostoryz Road - Brawner Parkway to Staples Street**

*Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan*

**DESCRIPTION:**

Project includes reconstructing 4-lane roadway with concrete pavement surface, with widened 5-lane intersection for protected left turn at Brawner Pkwy and Norton Rd. Staples St intersection will also be widened with a new designated right turn lane. Improvements include curb and gutter, sidewalks, ADA curb ramps, and pavement markings. Utility improvements include water, wastewater, storm water and gas. Sidewalks are 5' on west side and 8' on east side of roadway, allowing east sidewalk to serve as multi-use path. Traffic signals and pedestrian push-button improvements are provided improving Norton and Brawner intersections.



**PROJECT NOTES:**

Project No: E12099  
 A/E Consultant: Urban Engineering  
 Contractor: Reytec Con. Resources, Inc.  
 Award Design: Jan. 2013  
 Award Construction: Jun. 2016  
 Anticipated Completion: Dec. 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	5,678.0						5,678,000
STORM WATER	3,216.0						3,216,000
WASTEWATER	341.0	18.5					359,500
WATER	595.5						595,500
GAS	3.9	23.0					26,900
<b>TOTAL:</b>	<b>9,834.4</b>	<b>41.5</b>					<b>\$ 9,875,900</b>
<b>Source of Funds</b>							
Bond Issue 2012 GO	5,678.0						5,678,000
Bond Issue 2012 CO							
Revenue Bonds	4,156.4	41.5					4,197,900
<b>TOTAL:</b>	<b>9,834.4</b>	<b>41.5</b>					<b>\$ 9,875,900</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

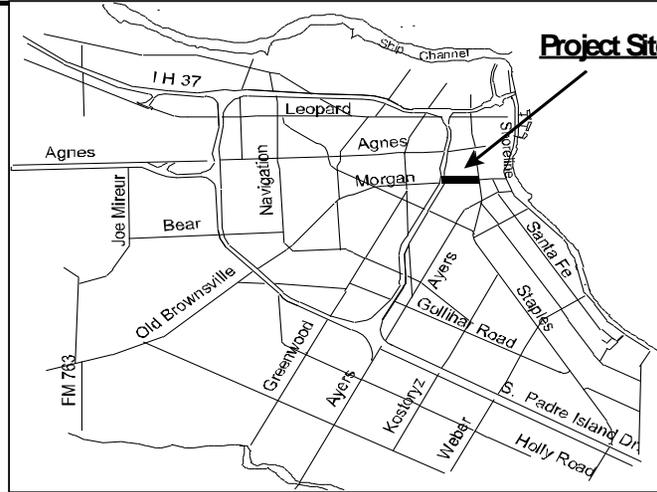
Sequence #32

**PROJECT TITLE: Morgan Avenue - South Staples Street to Crosstown Freeway**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

Project includes full depth reconstruction of existing four lane roadway with new curb and gutter, sidewalks, ADA ramps, and bus stops. Utility improvements include water, wastewater, storm water and gas. Street lighting upgrades are also included (AEP). Project is being coordinated with City Bond 2014 project, Morgan from Ocean Drive to South Staples Street and Spohn Hospital construction, to minimize impacts and overall cost.



**PROJECT NOTES:**

Project No: E12101  
 A/E Consultant: LJA Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jan. 2013  
 Award Construction: Jul. 2018  
 Anticipated Completion: Apr. 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	193.4	2,724.9					2,918,300
STORM WATER	260.9						260,900
WASTEWATER	50.5			58.9	19.6		129,000
WATER	59.5			130.6	43.5		233,600
GAS	0.5						500
<b>TOTAL:</b>	<b>564.8</b>	<b>2,724.9</b>		<b>189.5</b>	<b>63.1</b>		<b>\$ 3,542,300</b>
Source of Funds							
Bond Issue 2012 GO	193.4	34.4					227,800
Bond Issue 2012 CO		2,690.5					2,690,500
Revenue Bonds	371.4			189.5	63.1		624,000
<b>TOTAL:</b>	<b>564.8</b>	<b>2,724.9</b>		<b>189.5</b>	<b>63.1</b>		<b>\$ 3,542,300</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

Sequence #33

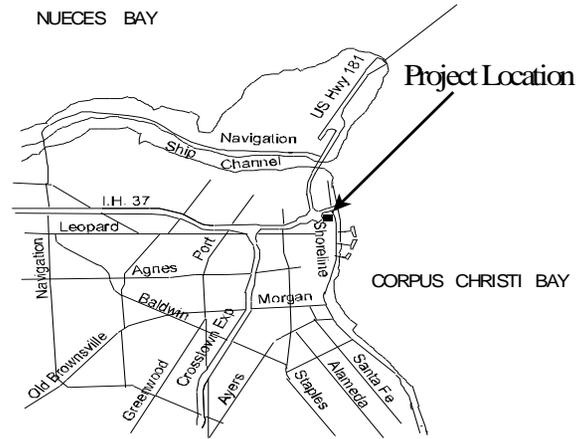
**PROJECT TITLE: Twigg Street - Shoreline Boulevard to Lower Broadway**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

Project includes full-depth reconstruction of existing two lane road with new sidewalks, curb and gutter, ADA ramps and pavement markings. Utility improvements include water, storm water, wastewater and gas. Project also includes landscaping and area beautification.

Note: This project is deferred until finalization of Harbor Bridge design.



**PROJECT NOTES:**

Project No: E12102  
 A/E Consultant: HDR Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jan. 2013  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	253.3	785.0					1,038,300
STORM WATER	106.8						106,800
WASTEWATER	36.6						36,600
WATER	27.9						27,900
GAS	5.2						5,200
<b>TOTAL:</b>	<b>429.8</b>	<b>785.0</b>					<b>\$ 1,214,800</b>

Source of Funds							
Bond Issue 2012 GO		8.3					8,300
Bond Issue 2012 CO	253.3	776.7					1,030,000
Revenue Bonds	176.5						176,500
<b>TOTAL:</b>	<b>429.8</b>	<b>785.0</b>					<b>\$ 1,214,800</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

**PROJECT DESCRIPTION**

**Bond 2012 Proposition One: STREETS**

Sequence #34

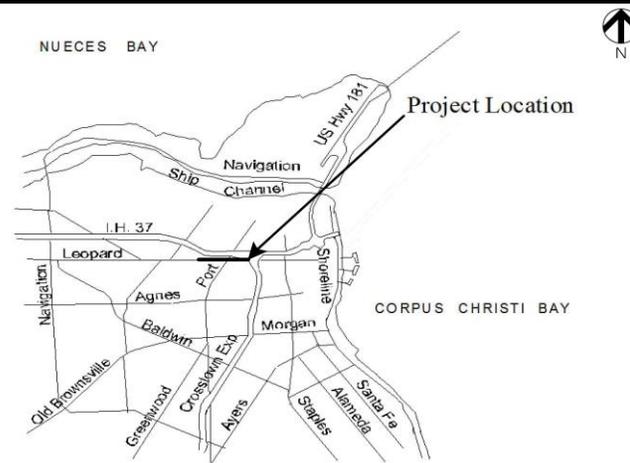
**PROJECT TITLE: Leopard Street - Crosstown Freeway to Palm Drive**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**

Project includes full-depth reconstruction and partial widening of existing 4 lane roadway with new sidewalks, curb and gutter, ADA ramps and pavement markings. Due to Harbor Bridge design limits, approved roadway segment was revised, removing Antelope to Doss. The section of Leopard from Doss to Port remains four-lanes with section from Port to Palm as five-lanes with continuous center turn lane. Utility improvements include water, wastewater, storm water and gas.

Note: Project was deferred until finalization of Harbor Bridge design. but is currently under design.



**PROJECT NOTES:**

Project No: E12103  
 A/E Consultant: HDR Engineering, Inc.  
 Contractor: TBD  
 Award Design: Jan 2013  
 Award Construction: Feb. 2018  
 Anticipated Completion: Mar. 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	378.3	3,789.7					4,168,000
STORM WATER	199.0						199,000
WASTEWATER	44.6						44,600
WATER	45.0						45,000
GAS	4.6						4,600
<b>TOTAL:</b>	<b>671.5</b>	<b>3,789.7</b>					<b>\$ 4,461,200</b>
Source of Funds							
Bond Issue 2012 GO							
Bond Issue 2012 CO	378.3	3,789.7					4,168,000
Revenue Bonds	293.2						293,200
<b>TOTAL:</b>	<b>671.5</b>	<b>3,789.7</b>					<b>\$ 4,461,200</b>

**OPERATIONAL IMPACT:**

There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

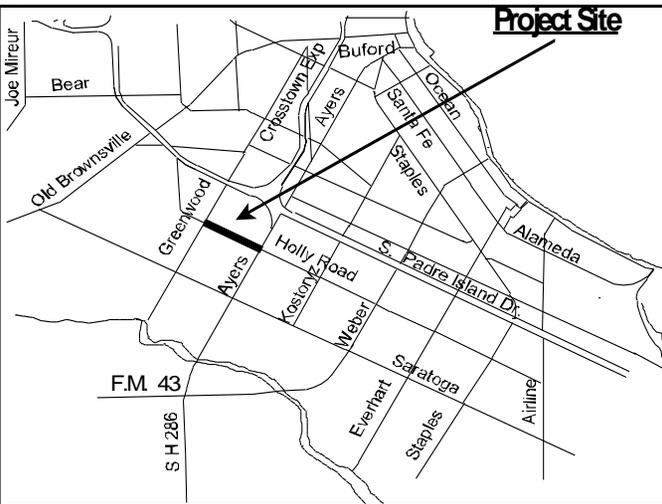
**PROJECT DESCRIPTION**

Bond 2012 Proposition One: **STREETS** Sequence #35

**PROJECT TITLE: Holly Road - Crosstown Freeway to Greenwood Drive**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32; Transportation Master Plan**

**DESCRIPTION:**  
 Project originally included reconstruction of existing 2-lane roadway to a 4-lane roadway with bike lanes and raised median. Landscaping, curb and gutter, pavement markings, signage, sidewalks and ADA curb ramps are included in project scope. This was originally joint TxDOT and city project with an 80/20 match for funding of design and construction of street, storm water and landscaping. City was 100% responsible for wastewater, water and gas. Due to recent reallocation of TxDOT funding, City will proceed with re-design and construction without TxDOT funding. Roadway consist of 2-lanes with continuous center turn-lane and no median or landscaping, but will have options for future travel lane. Project includes bidirectional off-street cycle track on one side for casual transit.



PROJECT NOTES:	
Finance Project No:	170371
Engineering Project No:	6470
A/E Consultant:	LVN, Inc.
Contractor:	TBD
Award Design:	Aug. 2011
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	2,489.1						2,489,100
STORM WATER		127.5		1,874.8	625.0		2,627,300
WASTEWATER		400.1		1,319.9	440.0		2,160,000
WATER	15.0	244.4		142.4	47.0		448,800
GAS							
<b>TOTAL:</b>	<b>2,504.1</b>	<b>772.0</b>		<b>3,337.1</b>	<b>1,112.0</b>		<b>\$ 7,725,200</b>

Source of Funds							
Bond Issue 2008	950.0						950,000
Bond Issue 2012	992.3						992,300
Revenue Bonds	15.0	772.0		3,337.1	1,112.0		5,236,100
Texas Department Transportation	546.8						546,800
<b>TOTAL:</b>	<b>2,504.1</b>	<b>772.0</b>		<b>3,337.1</b>	<b>1,112.0</b>		<b>\$ 7,725,200</b>

**OPERATIONAL IMPACT:**  
 There is no direct operational budget impact, but this project will replace aging utilities where applicable, improve the road to accommodate heavier traffic flows and provide a safer driving experience.

## PROJECT DESCRIPTION

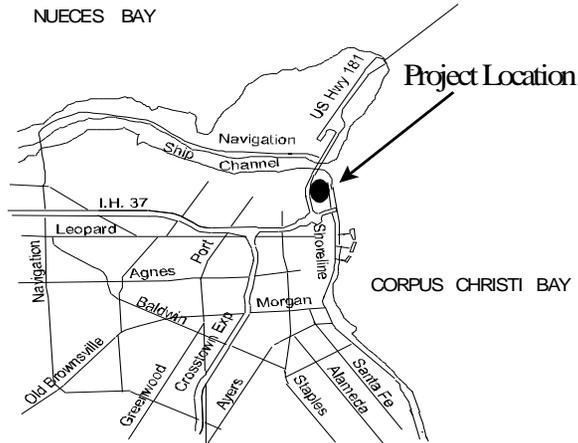
**Bond 2012 Proposition Eight: ECONOMIC DEVELOPMENT** Sequence #36

### PROJECT TITLE: **SeaTown Pedestrian Improvements**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32.**

**DESCRIPTION:**

This project is the first phase in implementing recommendations of the Sustainable Communities Building Blocks Walkability Audit conducted in May 2012, which includes recommendations to improve walkability and connectivity of local destinations to include American Bank Center, Whataburger Field, Ortiz Center, Art Museum, Science & History Museum, Heritage Park and other area attractions.



**PROJECT NOTES:**

Project No:	E12134
A/E Consultant:	LJA, Inc.
Contractor:	TBD
Award Design:	June 2014
Award Construction:	Dec. 2017
Anticipated Completion:	June 2018

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	343.3	156.7					500,000
STORM WATER		140.0					140,000
WASTEWATER							
WATER							
<b>TOTAL:</b>	343.3	296.7					<b>\$ 640,000</b>
<b>Source of Funds</b>							
Bond Issue 2012	343.3	156.7					500,000
Revenue Bonds		140.0					140,000
<b>TOTAL:</b>	343.3	296.7					<b>\$ 640,000</b>

**OPERATIONAL IMPACT:**

Operational Impact for project could include increased lighting and electrical consumption which will be developed during design stage. Project will greatly improve area and make it safer and friendlier for residents and visitors.

**PROJECT DESCRIPTION**

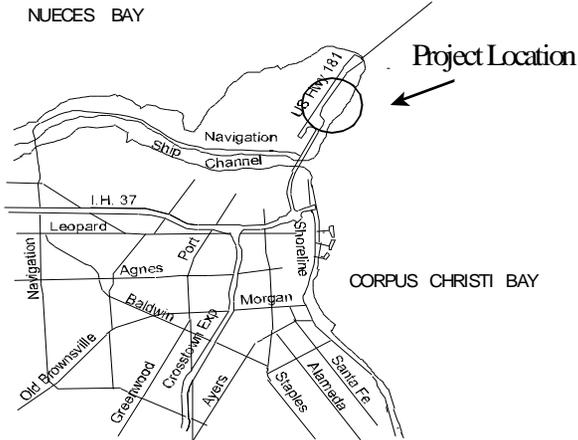
**Bond 2012 Proposition Eight: ECONOMIC DEVELOPMENT** Sequence #37

**PROJECT TITLE: North Beach Area Road Improvements & Area Beautification**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32.**

**DESCRIPTION:**

This project includes landscaping enhancements and roadway surface and pedestrian improvements in North Beach Area on the following roads: Breakwater Ave, Pearl Ave, North Shoreline Blvd, Bridgeport Ave, and Coastal Avenue. This project is being coordinated and combined into one design and construction project with North Beach Breakwater project (Sequence #42) to minimize impacts and maximize resources and project objectives.



**PROJECT NOTES:**

Project No: E12127  
 A/E Consultant: LJA, Inc.  
 Contractor: TBD  
 Award Design: Mar 2013  
 Award Construction: Oct 2017  
 Anticipated Completion: May 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	173.2	426.8					600,000
STORM WATER	57.9	299.8					357,700
WASTEWATER	55.6	22.5					78,100
WATER	60.7	4.4					65,100
<b>TOTAL:</b>	<b>347.4</b>	<b>753.5</b>					<b>\$ 1,100,900</b>
<b>Source of Funds</b>							
Bond Issue 2012	173.2	426.8					600,000
Revenue Bonds	174.2	326.7					500,900
<b>TOTAL:</b>	<b>347.4</b>	<b>753.5</b>					<b>\$ 1,100,900</b>

**OPERATIONAL IMPACT:**

Operational Impact for this project could include increased electrical consumption and water usage which will be identified during the design stage. The project will greatly improve the area and make it safer and friendlier for residents and visitors.

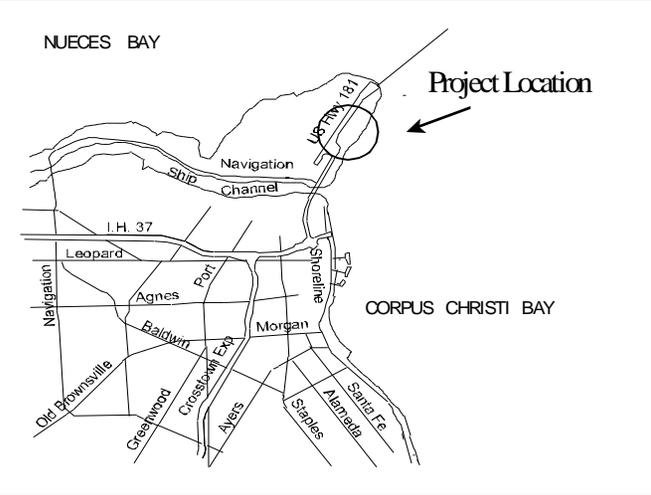
**PROJECT DESCRIPTION**

**Bond 2012 Proposition Eight: ECONOMIC DEVELOPMENT** Sequence #38

**PROJECT TITLE: North Beach Breakwater Plaza, North Shoreline Repair and Enhancement**

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32.**

**DESCRIPTION:**  
 This project includes North Shoreline on-street parking enhancement and pedestrian improvements along with enhancements at Breakpoint Area Plaza and structural repairs, to the breakwater structural cap. This project is being designed and constructed with North Beach Area Road Improvements and Beautification Project (Sequence #41) to reduce costs and accomplish project objectives. This project is also being coordinated with Texas State Aquarium, Lexington and other North Beach businesses for private funding to further maximize resources.



PROJECT NOTES:	
Project No:	E12129
A/E Consultant:	LJA, Inc.
Contractor:	TBD
Award Design:	Mar 2013
Award Construction:	Oct 2017
Anticipated Completion:	May 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	140.5	959.4					1,099,900
STORM WATER	41.6	468.7					510,300
WASTEWATER	59.5	50.6					110,100
WATER	45.3	84.6					129,900
<b>TOTAL:</b>	<b>286.9</b>	<b>1,563.3</b>					<b>\$ 1,850,200</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Bond Issue 2012	140.5	909.4					1,049,900
Revenue Bonds	146.4	603.9					750,300
Donation		50.0					50,000
<b>TOTAL:</b>	<b>286.9</b>	<b>1,563.3</b>					<b>\$ 1,850,200</b>

**OPERATIONAL IMPACT:**  
 Unable to quantify operational impact at this time, but the work will make the area safer and friendlier for residents and visitors.

## PROJECT DESCRIPTION

**Bond 2004 General Obligation Street Project**

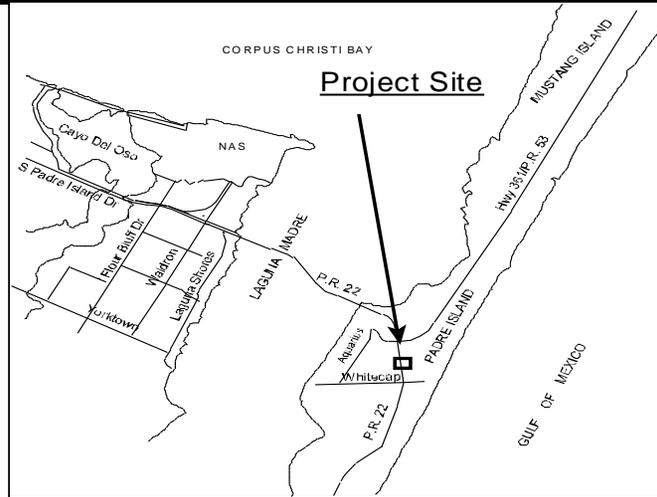
Sequence #39

### PROJECT TITLE: Park Road 22 Bridge

**Consistency with the Comprehensive Plan; Policy Statements pp. 25-32.**

**DESCRIPTION:**

This Bond 2004 project provides for new bridges over a new water exchange between canal systems located on east and west side of Park Road 22. New bridges allow for passage of pedestrians, golf carts and small boats beneath from the elevation of the current roadways and approaches. Water exchange is required by Developer under a United States Army Corps of Engineers permit and construction is being coordinated with the Developer. This project requires Texas Department of Transportation coordination and approval. This is a City Council priority project and construction will use remaining savings from Bond 2008 Street Bond Funds.



**PROJECT NOTES:**

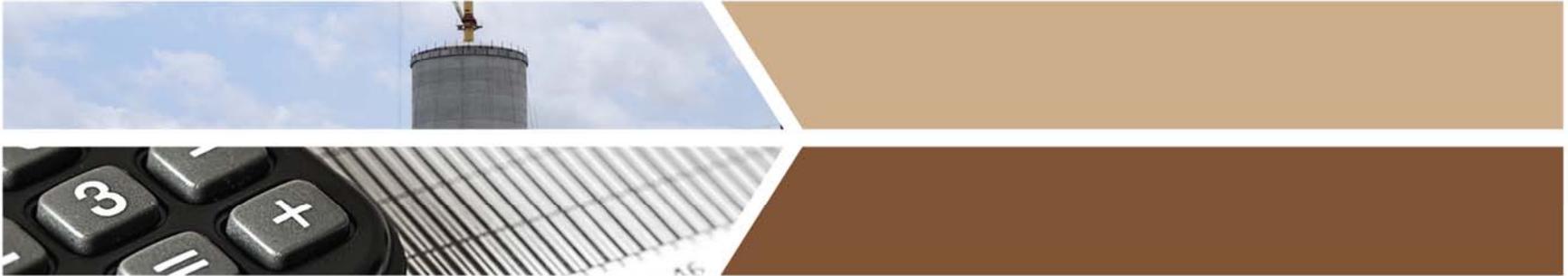
Finance Project No: 170062  
 Engineering Project No: 6281  
 A/E Consultant: Urban Engineering  
 Contractor: TBD  
 Award Design: Oct 2011  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
STREETS	1,493.4		7,058.0				8,551,400
STORM WATER		282.0					282,000
WASTEWATER	3.4	4,725.6					4,729,000
WATER	3.8	629.7					633,500
GAS	3.4	116.6					120,000
<b>TOTAL:</b>	<b>1,504.0</b>	<b>5,753.9</b>	<b>7,058.0</b>				<b>\$ 14,315,900</b>
<b>Source of Funds</b>							
G.O. Street Bond 2004	1,491.4		1,158.0				2,649,400
G.O. Street Bond 2008	0.2		5,900.0				5,900,200
Tax Notes	1.8						1,800
Revenue Bonds	10.6	5,753.9					5,764,500
<b>TOTAL:</b>	<b>1,504.0</b>	<b>5,753.9</b>	<b>7,058.0</b>				<b>\$ 14,315,900</b>

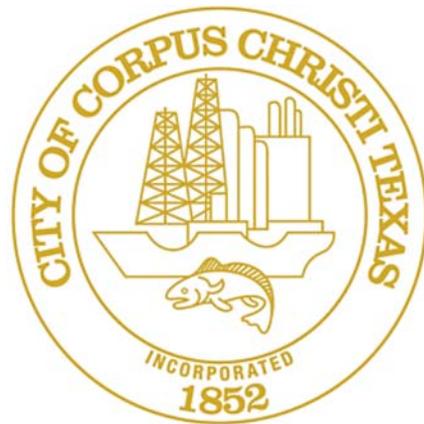
**OPERATIONAL IMPACT:**

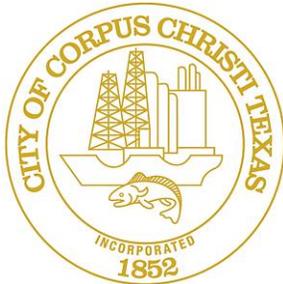
An operational budget impact cannot be determined until a final project scope has been developed. This project will impact the area with benefits to economic development and tourism.



# GAS

Obligation to the Future





# CITY OF CORPUS CHRISTI GAS PROGRAM

This year's Gas Department Capital Improvement Program represents a large investment for the City's natural gas system to address increased growth in the area, expand market development and invest in the infrastructure needs of the system. Previous pipeline expansion projects and pipeline acquisitions have come together to improve service, reliability, cut costs and adequately plan for the future of our distribution system.

Currently, the Gas Department is responsible for approximately 1,300 miles of distribution gas mains with over 54,000 active residential and commercial customers. This amounts to the purchase and delivery of approximately 3,300,000 million cubic gallons of natural gas per year.

Included in this year's Capital Improvement Program are critical expansion requirements for the main distribution supply lines throughout the City. These projects will connect the existing City distribution system to the North Beach distribution system, the Annville/Calallen distribution system, and the Padre Island System. When complete, the Gas Department will have consolidated from five independent distribution systems to one. With the expansion of the main distribution supply line to the Annville/Calallen, North Beach, Violet, and Padre Island areas, the reliability of the distribution system as a whole is greatly increased and redundancy is accomplished. Deliverability and capacity of the system is anticipated to increase.

In addition to the projects listed, the Gas Capital Improvement Program Budget includes over \$1M in work to support city and Texas Department of Transportation (TxDOT) street projects that require upgrading or moving gas transmission lines. These projects include streets listed in the 2012 and 2014 General Obligation Bond Elections and programmed by TxDOT in anticipation of the new Harbor Bridge project.

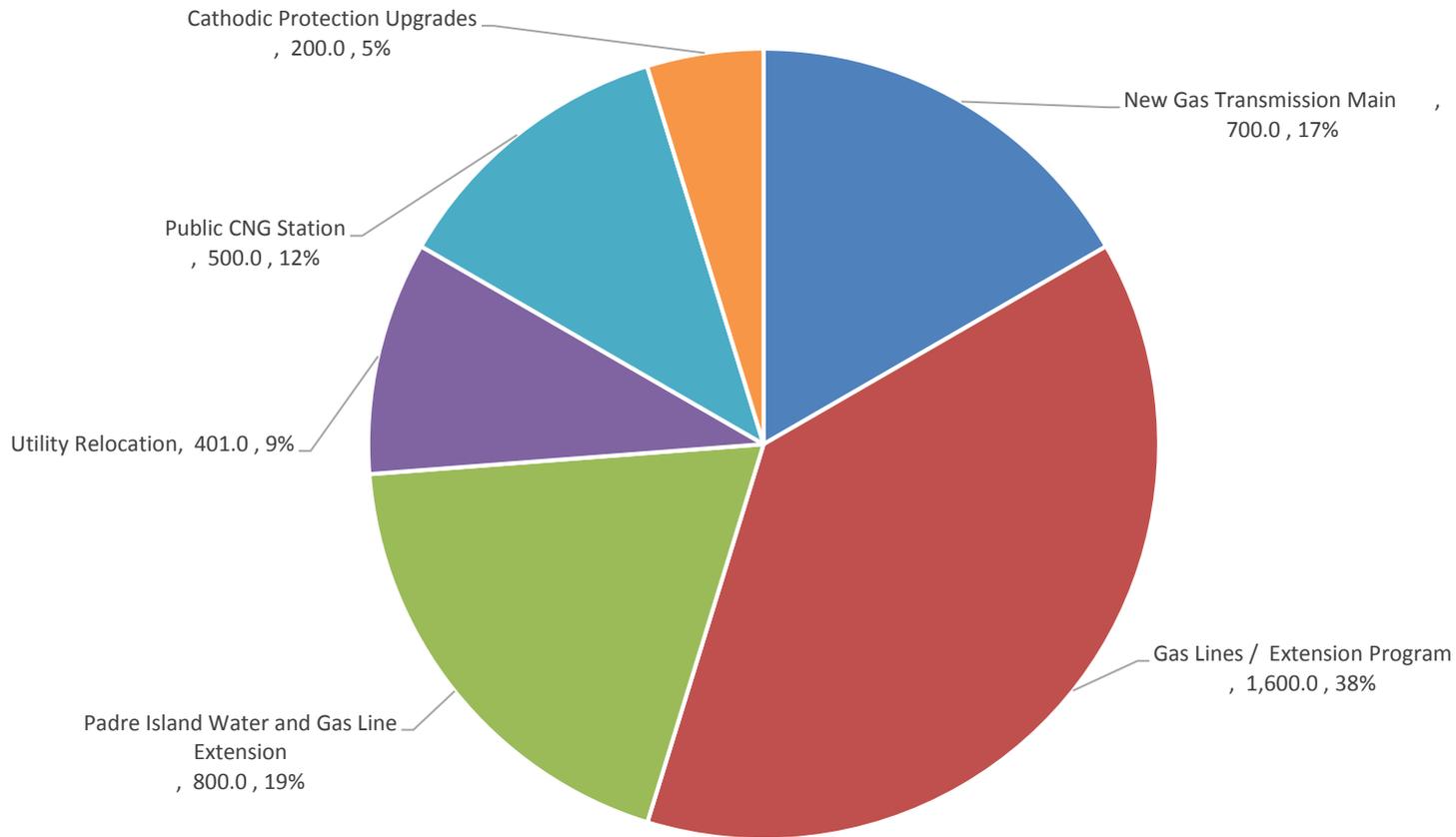
The Gas Department is committed to providing quality service and competitive pricing for their natural gas customers. The program addresses future growth with potential market development and improved citywide service and reliability.

A recap of the budgeted expenditures includes:

<b>EXPENDITURES:</b>	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018– 2019</b>	<b>YEAR THREE 2019 – 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 4,201,000</b>	<b>\$ 2,600,000</b>	<b>\$ 2,600,000</b>
<b>FUNDING:</b>			
New Debt (Revenue Bonds)	<b>\$ 4,201,000</b>	<b>\$ 2,600,000</b>	<b>\$ 2,600,000</b>
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 4,201,000</b>	<b>\$ 2,600,000</b>	<b>\$ 2,600,000</b>

# GAS

Annual CIP: \$4,201  
(Amounts in 000's)



**GAS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
GA 01	<b>New Gas Transmission Main</b> Finance and Engineering Number: E12131	342.8	696.0	<b>700.0</b>	700.0	700.0	<b>2,100.0</b>
GA 02	<b>Gas Lines / Regulator Stations Replacement / Extension Program</b> Finance and Engineering Number: E12132	2,010.6	8.6	<b>1,600.0</b>	1,600.0	1,600.0	<b>4,800.0</b>
GA 03	<b>Padre Island Water and Gas Line Extension</b> Finance and Engineering Number: E16325	74.1	61.6	<b>800.0</b>			<b>800.0</b>
GA 04	<b>Public CNG Station</b> Finance and Engineering Number: TBD			<b>500.0</b>			<b>500.0</b>
GA 05	<b>Cathodic Protection Upgrades</b> Finance and Engineering Number: E13022	129.0	1,060.5	<b>200.0</b>	200.0	200.0	<b>600.0</b>
	<b>Gas Program Sub-Total:</b>	2,556.5	1,826.7	<b>3,800.0</b>	2,500.0	2,500.0	<b>8,800.0</b>

**GAS  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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	<b>*Utility Relocation Costs for Bond 2008</b>	3.4	116.6				
	<b>*Utility Relocation Costs for Bond 2012</b>	43.8	130.5	<b>92.0</b>			<b>92.0</b>
	<b>*Utility Relocation Costs for Bond 2014</b>	69.7	69.7	<b>209.0</b>			<b>209.0</b>
	<b>*Utility Relocation Costs for Bond 2016</b>			<b>100.0</b>	100.0	100.0	<b>300.0</b>

*\* relocation costs and funding reflected within each specific Streets Program*

	<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>2,673.4</b>	<b>2,143.5</b>	<b>4,201.0</b>	<b>2,600.0</b>	<b>2,600.0</b>	<b>9,401.0</b>
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**PROGRAM FUNDING SCHEDULE:**

**CURRENTLY AVAILABLE FUNDING:**

	Revenue Bond	<b>2,673.4</b>	<b>2,143.5</b>				
	<b>Total Currently Available:</b>	<b>2,673.4</b>	<b>2,143.5</b>				

**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			<b>4,201.0</b>	<b>2,600.0</b>	<b>2,600.0</b>	<b>9,401.0</b>
	<b>TOTAL PROGRAMMED FUNDS:</b>	<b>2,673.4</b>	<b>2,143.5</b>	<b>4,201.0</b>	<b>2,600.0</b>	<b>2,600.0</b>	<b>9,401.0</b>

## PROJECT DESCRIPTION

Department: **GAS**

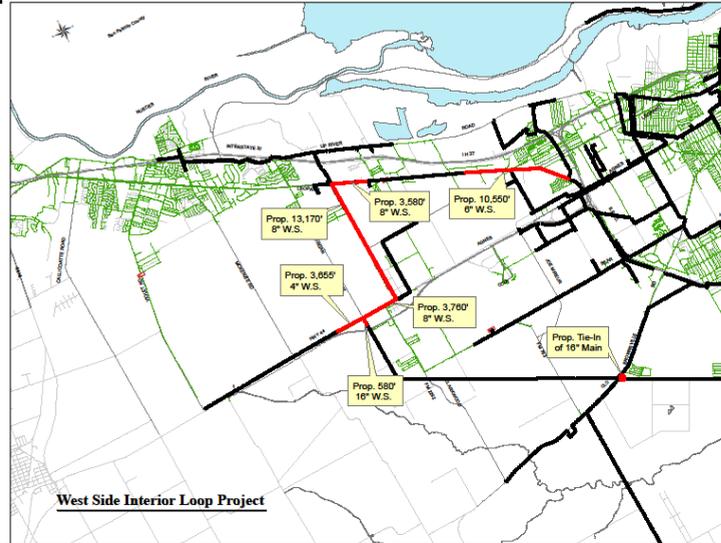
Sequence #01

### PROJECT TITLE: New Gas Transmission Main

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56, 60 & 61**

**DESCRIPTION:**

This project consists of installing approximately 35,000 feet of high pressure mains varying in size from 4 to 16 inches. This will connect existing City distribution system to the Annville/Calallen distribution system. Connecting the two system will increase reliability and capacity to Annville/Calallen area. This project will be completed by City crews.



**PROJECT NOTES:**

Parent Project No:	E12131
A/E Consultant:	In House
Contractor:	City
Award Design:	N/A
Award Construction:	On-Going
Anticipated Completion:	On-Going

#### FUNDING SCHEDULE (Amounts in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	48.5		150.0	150.0	150.0		498,500.00
Construction	288.4	690.0	460.0	460.0	460.0		2,358,400.00
Contingency			40.0	40.0	40.0		120,000.00
Inspection/Other	5.9	6.0	50.0	50.0	50.0		161,900.00
<b>TOTAL:</b>	342.8	696.0	700.0	700.0	700.0		<b>\$ 3,138,800</b>
Source of Funds							
Revenue Bonds	342.8	696.0	700.0	700.0	700.0		3,138,800
<b>TOTAL:</b>	342.8	696.0	700.0	700.0	700.0		<b>\$ 3,138,800</b>

**OPERATIONAL IMPACT:**

The impact is negligible to the annual operating budget, but work will increase capacity to market additional gas volume to Annville and Calallen areas and potentially increase revenues.

**PROJECT DESCRIPTION**

Department: GAS

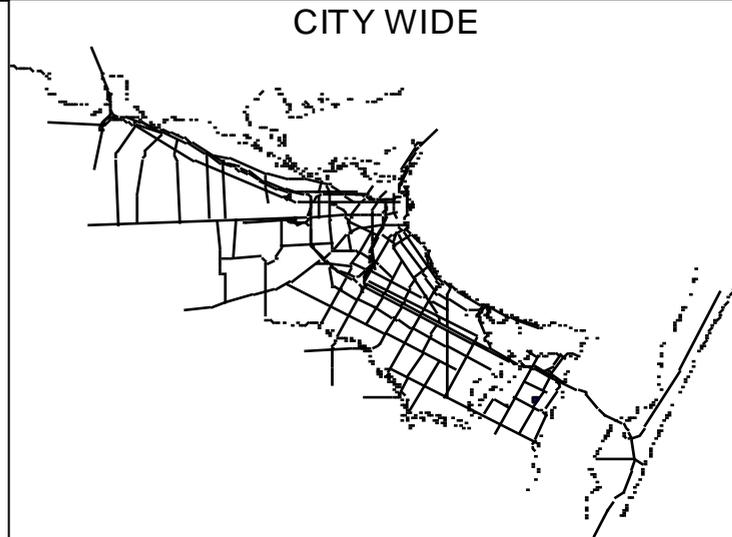
Sequence #02

**PROJECT TITLE: Gas Line Replacement /Regulator Stations Replacement / Line Extension Program**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56, 60 & 61*

**DESCRIPTION:**

This project involves assessment and replacement of existing gas pipelines the City owns at, or beyond, their useful service life. Lines and regulator stations in the most deteriorated condition, and those creating the most severe maintenance issues, will be prioritized for replacement. This project will also extend existing lines, opening up new service opportunities and support gas line improvements to programmed street and utilities projects that arise during the year.



**PROJECT NOTES:**

Parent Project No:	E12132
A/E Consultant:	In House
Contractor:	City
Award Design:	N/A
Award Construction:	On-Going
Anticipated Completion:	On-Going

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	70.8		160.0	160.0	160.0	1,120.0	1,670,800
Construction	920.9		1,200.0	1,200.0	1,200.0	8,400.0	12,920,900
Contingency			120.0	120.0	120.0	840.0	1,200,000
Inspection/Other	1,018.9	8.6	120.0	120.0	120.0	840.0	2,227,500
<b>TOTAL:</b>	2,010.6	8.6	1,600.0	1,600.0	1,600.0	11,200.0	<b>18,019,200</b>
Source of Funds							
Revenue Bonds	2,010.6	8.6	1,600.0	1,600.0	1,600.0	11,200.0	18,019,200
<b>TOTAL:</b>	2,010.6	8.6	1,600.0	1,600.0	1,600.0	11,200.0	<b>\$ 18,019,200</b>

**OPERATIONAL IMPACT:**

This program allows strategic system recapitalization to prevent future line breakages and interruption of service due to aging infrastructure and avoids major rate fluxuations.

## PROJECT DESCRIPTION

Department: **GAS**

Sequence #03

### PROJECT TITLE: Padre Island Water and Gas Line Extension

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Gas Master Plan**

**DESCRIPTION:**

This project constructs a new 8-inch diameter natural gas line parallel to water main on the island from approximately Aquarius Street to Sand Dollar pumping station. This improvement will meet requirements of Texas Railroad Commission (TRRC) to interconnect with Corpus Christi distribution system as stated in Gas Department Business Plan.



**PROJECT NOTES:**

Parent Project No:	E16325
A/E Consultant:	Urban Engineering
Contractor:	TBD
Award Design:	Nov 2016
Award Construction:	Dec 2017
Anticipated Completion:	Jun 2018

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	74.1		80.0				154,100
Construction			565.0				565,000
Contingency			55.0				55,000
Inspection/Other		61.6	100.0				161,600
<b>TOTAL:</b>	74.1	61.6	800.0				<b>\$ 935,700</b>
<b>Source of Funds</b>							
Revenue Bonds	74.1	61.6	800.0				935,700
<b>TOTAL:</b>	74.1	61.6	800.0				<b>\$ 935,700</b>

**OPERATIONAL IMPACT:**

This project will decrease operational cost and end-user rate.

## PROJECT DESCRIPTION

Department: **GAS**

Sequence #04

### PROJECT TITLE: Public CNG Station

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Gas Master Plan**

**DESCRIPTION:**

The City Council discussed fuel and maintenance cost savings and emission reduction for a cleaner environment afforded through the use of Compressed Natural Gas (CNG). The City has committed to providing CNG not only for City fleets but also for commercial fleets and private customers. Public and private fleets include US Post Office, AT&T, Nueces County, Texas Railroad Commission, Republic Services, CC Disposal, and private customers. Demand of CNG has almost doubled from 17,000 GGE (Gasoline Gallon Equivalence) to 33,000 GGE since November 2013. A new CNG station has been constructed at Ayers street. This CIP project will re-furbish equipment from old Hygeia station, and use it for another medium size station on West side of town.



**PROJECT NOTES:**

Parent Project No:	TBD
A/E Consultant:	In House
Contractor:	In House
Award Design/Build:	N.A
Anticipated Completion:	N.A

**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Design/Build Construction Contingency Inspection/Other			500.0				500,000
<b>TOTAL:</b>			<b>500.0</b>				<b>\$ 500,000</b>
<b>Source of Funds</b>							
Revenue Bonds			500.0				500,000
<b>TOTAL:</b>			<b>500.0</b>				<b>\$ 500,000</b>

**OPERATIONAL IMPACT:**

This project will better serve the customers on East and West side of town.

**PROJECT DESCRIPTION**

Department: GAS

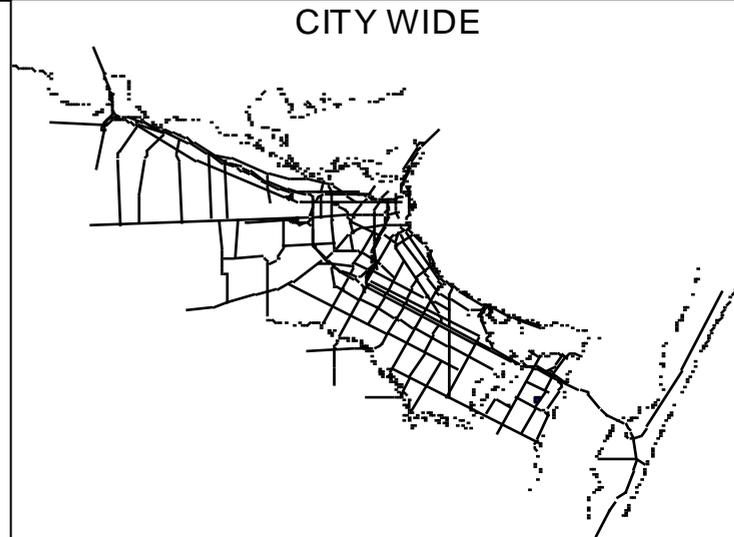
Sequence #05

**PROJECT TITLE: Cathodic Protection Upgrades**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57;*

**DESCRIPTION:**

This project proposes design and construction to upgrade current city-wide high pressure distribution system from Sacrificial Anode Cathodic Protection System to Impressed Current Cathodic Protection System. The Impressed Current system is more effective at protecting larger mains from external corrosion. This system also uses anodes that have longer effective lifespan and will reduce anode replacement costs.



**PROJECT NOTES:**

Parent Project No: E13022  
 A/E Consultant: In-House  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

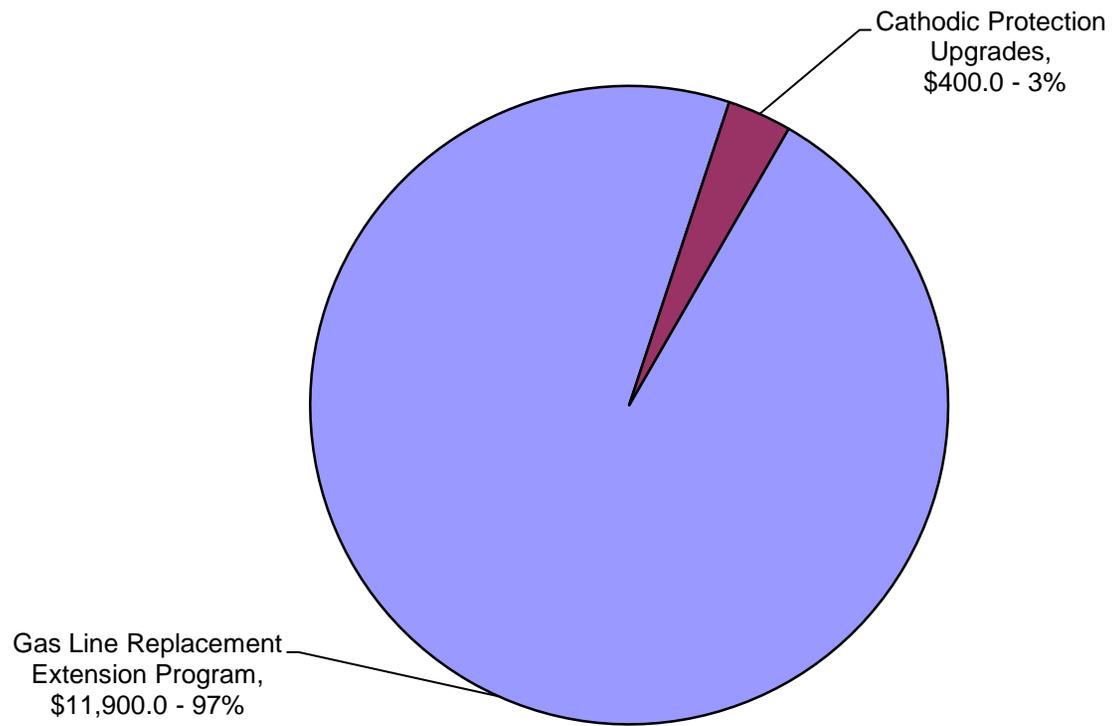
**FUNDING SCHEDULE (Amounts in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	51.1						51,100
Construction		1,000.0	200.0	200.0	200.0	400.0	2,000,000
Contingency							
Inspection/Other	77.9	60.5					138,400
<b>TOTAL:</b>	129.0	1,060.5	200.0	200.0	200.0	400.0	<b>\$ 2,189,500</b>
Source of Funds							
Revenue Bonds	129.0	1,060.5	200.0	200.0	200.0	400.0	2,189,500
<b>TOTAL:</b>	129.0	1,060.5	200.0	200.0	200.0	400.0	<b>\$ 2,189,500</b>

**OPERATIONAL IMPACT:**

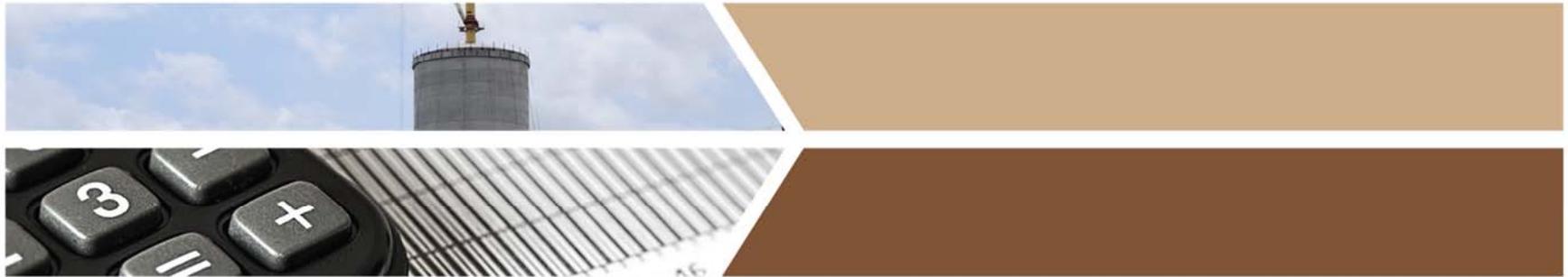
This project will decrease the operational and maintenance cost from a long-term vision.

**Gas**  
**Long-Range CIP: \$12,300**  
**(Amounts in 000's)**



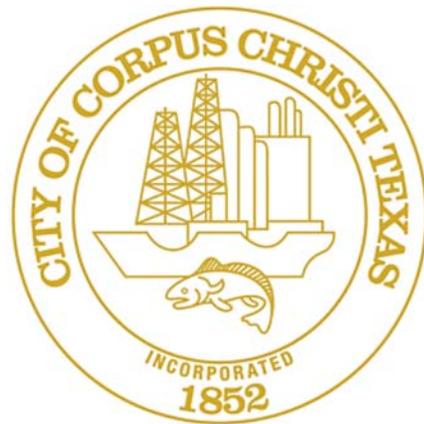
**GAS  
LONG-RANGE CIP**

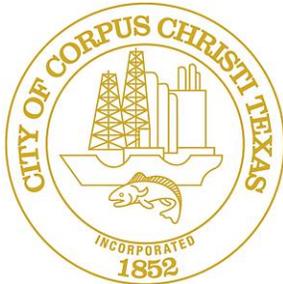
		<b>Long- Range Year</b>
1	<u>Gas Lines / Regulator Station Replacement / Extension Program (continuation)</u> This project involves assessment and replacement of existing gas pipelines the City owns at, or beyond, their useful service life. Lines and regulator stations in the most deteriorated condition, and those creating the most severe maintenance issues, will be prioritized for replacement. This project will also extend existing lines, opening up new service opportunities and support gas line improvements to programmed street and utilities projects that arise during the year.	\$11,200,000  4, 5, 6, 7, 8, 9, 10
2	<u>Cathodic Protection Upgrades (continuation)</u> This project proposes design and construction to upgrade the current city-wide high pressure distribution system from Sacrificial Anode Cathodic Protection System to an Impressed Current Cathodic Protection System. The Impressed Current Cathodic system is more effective at protecting larger mains from external corrosion. This system also uses anodes that have a longer effective lifespan and therefore will reduce anode replacement costs.	\$400,000  4, 5
3	<u>Future Bond Issue Gas Support</u> This project provides Gas support to future Street Bond issue projects where Gas lines have to be moved or replaced.	\$700,000
<b><u>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</u></b>		<b><u>\$12,300,000</u></b>



# STORM WATER

Obligation to the Future





# CITY OF CORPUS CHRISTI STORM WATER PROGRAM

This year's Storm Water Capital Improvement Program represents a significant investment in the City's storm water system to address increased development and critical storm water infrastructure throughout the City. Planned improvements will allocate resources for improving major and minor channels, underground main trunk lines, box culverts, collection systems, curb & gutter, inlets and outfall structures. Significant initiatives included in the Capital Improvement Program focus on ensuring compliance with state and federal regulatory requirements and planning to address the capacity limitations of existing systems. The City of Corpus Christi's Storm Water Department is currently responsible for two major drainage pump stations, over 100 miles of major ditches, 370 miles of collector ditches, 110 bridges, over 600 miles of underground storm drain pipes with 6,500 manholes, and 1800 miles of curb & gutter with 19,000 inlets and various smaller ditches, driveway culverts and natural drainage systems.

Over the next several years, the integrity of the City's Storm Water facilities will be improved through projects planned to provide additional capacity and infrastructure lifecycle management. In a proactive, rather than reactive approach, an evaluation of major and minor systems, outfall structures, and bridges, will result in a replacement schedule for the most severe problems needed to reduce overall maintenance challenges, reduce flooding and improve public safety. Additional work includes implementation of city-wide improvements to the existing major and minor ditches (concrete-lined and earthen), curb & gutter, and underground systems to increase water quality and pollution prevention as required by the City's Texas Pollutant Discharge Elimination System (TPDES) Permit.

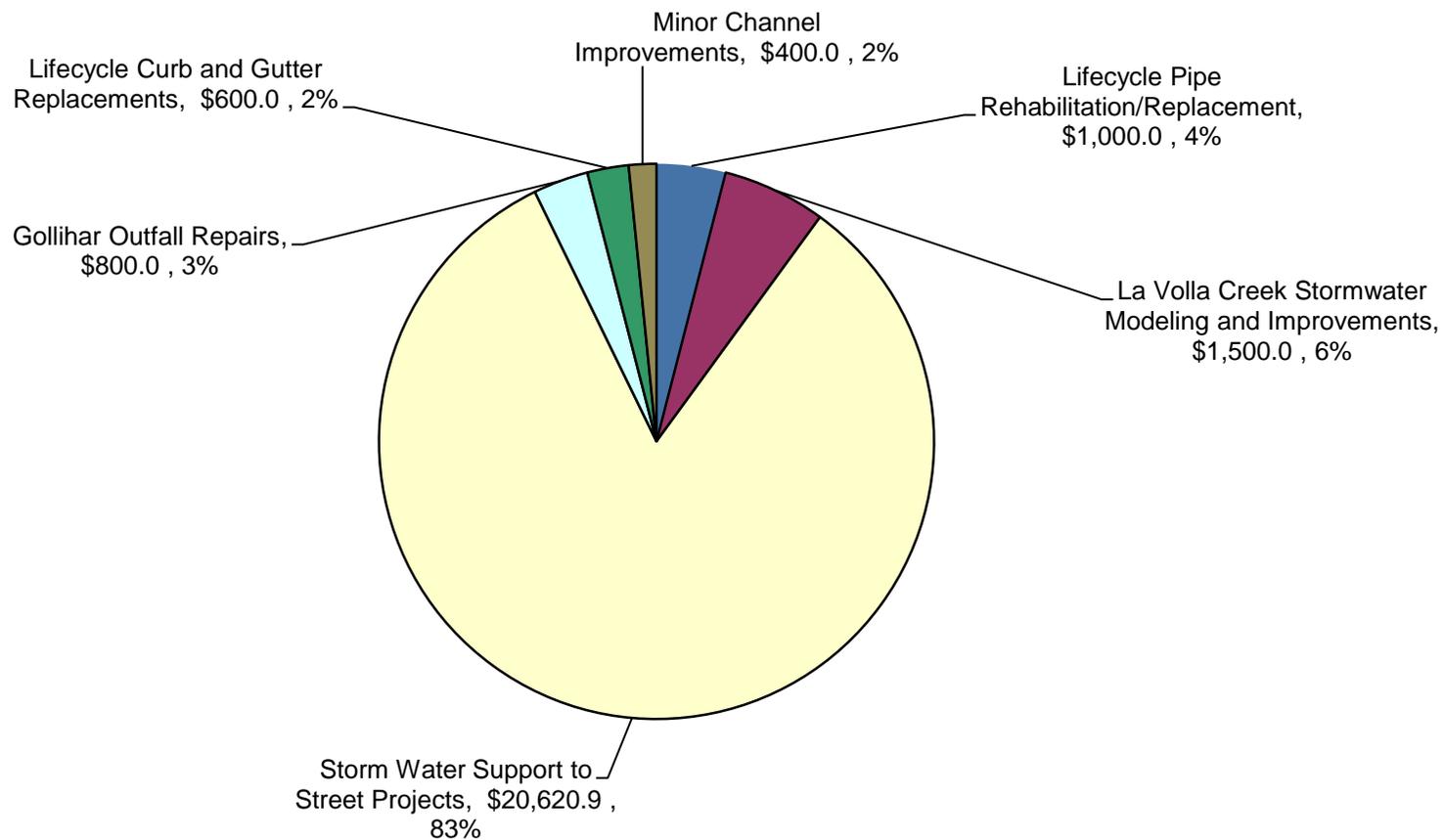
Projects are included to address drainage within the La Volla Creek and Oso Creek areas, support of Bond 2012 and Bond 2014 projects, and repairs that will improve localized drainage.

In addition to the projects listed, the Storm Water Capital Improvement Program Budget includes over \$20.6 M in work to support city street projects that require upgrading or moving storm water mains. These projects include streets listed in the 2012 and 2014 General Obligation Bond Elections.

A recap of the budgeted expenditures includes:

	<b>YEAR ONE 2017– 2018</b>	<b>YEAR TWO 2018 – 2019</b>	<b>YEAR THREE 2019 – 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 24,920,900</b>	<b>\$ 11,287,200</b>	<b>\$ 6,225,000</b>
<b>FUNDING:</b>			
New Debt (Revenue Bonds):	<b>\$ 21,232,300</b>	<b>\$ 11,287,200</b>	<b>\$ 6,225,000</b>
Pay As You Go (Cash):	<b>\$ 3,688,600</b>	<b>\$ 0</b>	<b>\$ 0</b>
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 24,920,900</b>	<b>\$ 11,287,200</b>	<b>\$ 6,225,000</b>

**Storm Water  
Annual CIP: \$ 24,920.9  
(Amounts in 000's)**



**STORM WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
SW 01	<b>Lifecycle Pipe Rehabilitation/Replacement</b> Finance and Engineering Number: E12146	312.6	3,712.6	<b>1,000.0</b>	1,000.0	1,000.0	<b>3,000.0</b>
SW 02	<b>La Volla Creek Storm Water Modeling and Improvements</b> Finance and Engineering Number: E12191	75.7	1,310.1	<b>1,500.0</b>	1,000.0	1,000.0	<b>3,500.0</b>
SW 03	<b>Gollihar Outfall Repairs</b> Finance and Engineering Number: E12143 / E14039	95.9	1,304.0	<b>800.0</b>			<b>800.0</b>
SW 04	<b>Lifecycle Curb and Gutter Replacement</b> Finance and Engineering Number: E14035	598.2	540.3	<b>600.0</b>	600.0	600.0	<b>1,800.0</b>
SW 05	<b>Minor Channel Improvements</b> Finance and Engineering Number: E12198 / E14041	100.7	559.3	<b>400.0</b>	400.0	400.0	<b>1,200.0</b>
SW 06	<b>Bridge Rehabilitation</b> Finance and Engineering Number: E12199	0.5	968.4		600.0	600.0	<b>1,200.0</b>
	<b>Storm Water Program Sub-Total:</b>	1,183.6	8,394.7	<b>4,300.0</b>	3,600.0	3,600.0	<b>11,500.0</b>

**STORM WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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	<b>*Utility Relocation Costs for Bond 2008</b>		282.0				
	<b>*Utility Relocation Costs for Bond 2012</b>	7,460.7	3,417.9	<b>2,974.0</b>	1,874.8	625.0	5,473.8
	<b>*Utility Relocation Costs for Bond 2014</b>	7,195.0	5,504.6	<b>17,177.9</b>	4,412.4	600.0	22,190.3
	<b>*Utility Relocation Costs for Bond 2016</b>			469.0	1,400.0	1,400.0	3,269.0
	<b>Future Programmed Bond Utility Support</b>						

*\* relocation costs and funding reflected within each specific Streets Program*

	<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>15,839.3</b>	<b>17,599.2</b>	<b>24,920.9</b>	<b>11,287.2</b>	<b>6,225.0</b>	<b>42,433.1</b>
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**PROGRAM FUNDING SCHEDULE:**

**CURRENTLY AVAILABLE FUNDING:**

	Revenue Bond	15,526.7	13,886.6				
	Storm Water Capital Reserves	312.6	3,712.6	<b>3,688.6</b>			<b>3,688.6</b>

	<b>Total Currently Available:</b>	<b>15,839.3</b>	<b>17,599.2</b>	<b>3,688.6</b>			<b>3,688.6</b>
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**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			<b>21,232.3</b>	11,287.2	6,225.0	<b>38,744.5</b>
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	<b>TOTAL PROGRAMMED FUNDS:</b>	<b>15,839.3</b>	<b>17,599.2</b>	<b>24,920.9</b>	<b>11,287.2</b>	<b>6,225.0</b>	<b>42,433.1</b>
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**PROJECT DESCRIPTION**

Department: **STORM WATER**

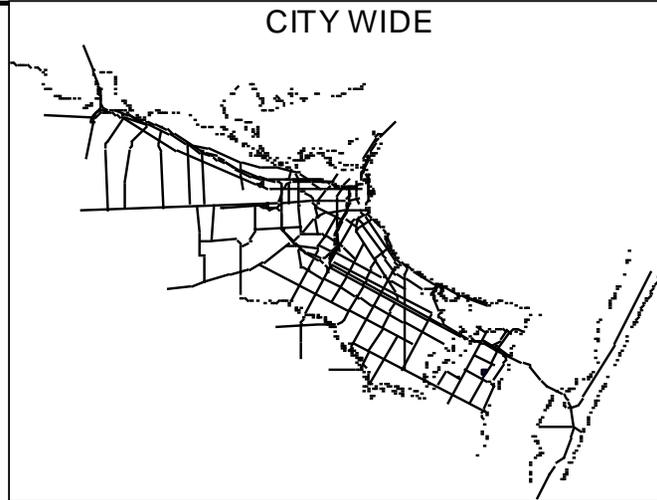
Sequence #01

**PROJECT TITLE: Lifecycle Pipe Rehabilitation/Replacement**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

The purpose of this project is to systematically rehabilitate and/or replace aging storm water infrastructure city-wide. Project will assess existing condition of clay pipe and other aging systems that have reached end of useful service life and rehabilitate/replace is required. Project will be implemented in phased approach as funding allows.



**PROJECT NOTES:**

Project No: E12146  
 A/E Consultant: LJA  
 Contractor: In-House / Various  
 Award Design: Mar 2017  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	294.4		125.0	125.0	125.0		669,400
Construction		3,300.0	700.0	700.0	700.0		5,400,000
Contingency		100.0	50.0	50.0	50.0		250,000
Inspection/Other	18.2	312.6	125.0	125.0	125.0		705,800
<b>TOTAL:</b>	312.6	3,712.6	1,000.0	1,000.0	1,000.0		\$ 7,025,200
Source of Funds							
Revenue Bond				1,000.0	1,000.0		2,000,000
Pay As You Go	312.6	3,712.6	1,000.0				5,025,200
<b>TOTAL:</b>	312.6	3,712.6	1,000.0	1,000.0	1,000.0		\$ 7,025,200

**OPERATIONAL IMPACT:**

The extension of service life of storm water mains is critical to ensuring integrity of system. This project itself does not increase revenue or decrease expenses, but it prevents cost of maintenance from rising.

## PROJECT DESCRIPTION

Department: **STORM WATER**

Sequence #02

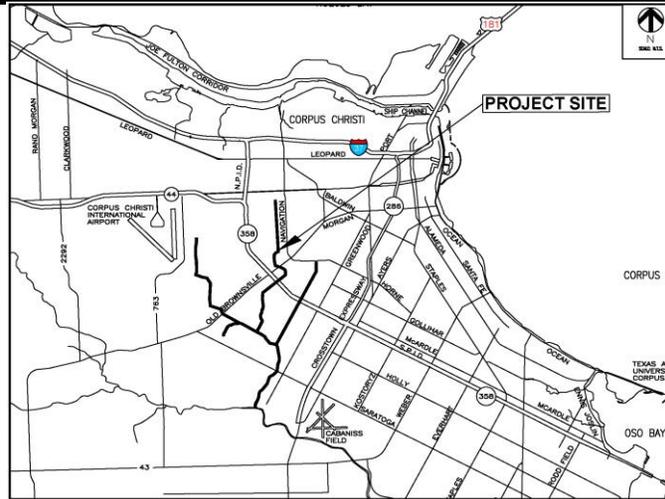
### PROJECT TITLE: La Volla Creek Storm Water Modeling and Improvements

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

La Volla Creek is a natural drainageway that drains into Oso Creek. Several tributaries of La Volla Creek are affected by backwater from La Volla Creek in heavy storms. To mitigate flooding risks in La Volla Creek tributaries and to file revision requests to FEMA's preliminary FIRMs, this project provides the following tasks:

- Establish new hydraulic model for La Volla Creek & tributaries, and if warranted, file FIRM revision requests to FEMA;
- Prioritize major ditch improvement projects within La Volla Creek tributaries based on hydraulic modeling results;
- Prepare design documents and multiple delivery orders (DOs) – "work orders" to contractor.



**PROJECT NOTES:**

Project No:	E12191
A/E Consultant:	LAN
Contractor:	TBD
Award Design:	FY 2017
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations May 2016	Unspent Prior Budget as of June 2016	CIP Budget Year 1 2016 - 2017	Year 2 2017 - 2018	Year 3 2018 - 2019	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	60.0	500.0		150.0	150.0		860,000
Construction		680.0	<b>1,200.0</b>	700.0	700.0		3,280,000
Contingency		65.0	<b>150.0</b>	75.0	75.0		365,000
Inspection/Other	15.7	65.1	<b>150.0</b>	75.0	75.0		380,800
<b>TOTAL:</b>	<b>75.7</b>	<b>1,310.1</b>	<b>1,500.0</b>	<b>1,000.0</b>	<b>1,000.0</b>		<b>\$ 4,885,800</b>
<b>Source of Funds</b>							
Revenue Bond	75.7	1,310.1		1,000.0	1,000.0		3,385,800
Pay As You Go			<b>1,500.0</b>				1,500,000
<b>TOTAL:</b>	<b>75.7</b>	<b>1,310.1</b>	<b>1,500.0</b>	<b>1,000.0</b>	<b>1,000.0</b>		<b>\$ 4,885,800</b>

**OPERATIONAL IMPACT:**

Restoration of channels and ditches is critical to avoid potential "washouts" that result in encroachment, flooding and undermining of adjacent public/private structures including streets, bridges, utility lines, buildings, and homes. Funding rehab/construction of major channels can ultimately reduce operational cost from "emergency" responses and more costly maintenance actions during lifecycle of channel. This project helps relieve localized flooding along creek.

**PROJECT DESCRIPTION**

Department: **STORM WATER**

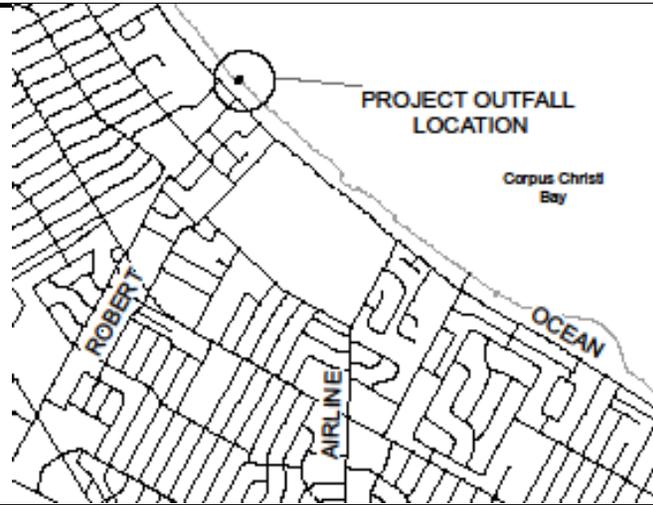
Sequence #03

**PROJECT TITLE: Gollihar Outfall Repairs**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

An assessment performed on Gollihar Outfall in 2014 indicated repairs were needed to approximately 84 linear feet of concrete box culvert, including seawall repairs and concrete pavement repair. Existing culvert is in poor/critical condition at outfall and a sinkhole has developed above damaged section. Improvements will improve public safety and rehabilitate an aging storm water outfall that conveys runoff into Corpus Christi Bay.



**PROJECT NOTES:**

Project No: E12143 / E14039  
 A/E Consultant: Govind Development  
 Contractor: Bridges Specialties  
 Award Design: Sept 2015  
 Award Construction: Aug 2017  
 Anticipated Completion: Feb 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	67.1						67,100
Construction		1,000.0	700.0				1,700,000
Contingency		100.0	50.0				150,000
Inspection/Other	28.8	204.0	50.0				282,800
<b>TOTAL:</b>	95.9	1,304.0	800.0				\$ 2,199,900

Source of Funds							
Revenue Bond	95.9	1,304.0					1,399,900
Pay As You Go			800.0				800,000
<b>TOTAL:</b>	95.9	1,304.0	800.0				\$ 2,199,900

**OPERATIONAL IMPACT:**

Restoration of storm water conveyance systems is critical to avoid potential "washouts" that may result in encroachment, flooding, and undermining of adjacent public/private structures including streets, bridges, utility line, building, and homes. Funding rehab/construction of drainage infrastructure can reduce operational cost due to reduced "emergency" responses and more costly maintenance actions during lifecycle of outfall.

**PROJECT DESCRIPTION**

Department: **STORM WATER**

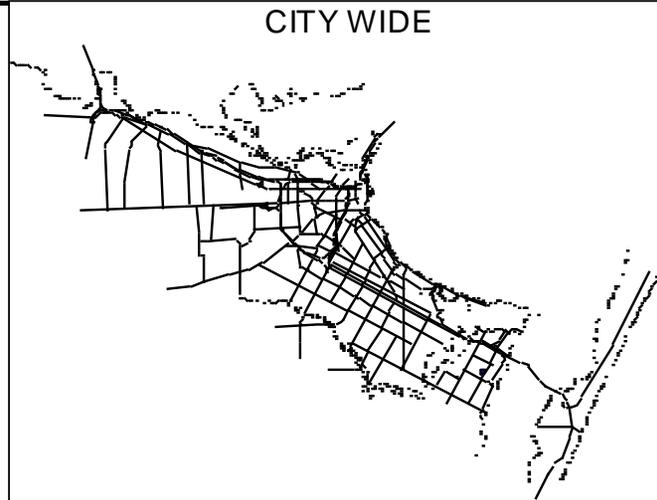
Sequence #04

**PROJECT TITLE: Lifecycle Curb and Gutter Replacement**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

This is an ongoing project where damaged, rolled and failed curb and gutter is removed and replaced along with associated pavement repair through out the City. In addition to improving drainage, areas considered hazardous to vehicular or pedestrian traffic will receive priority. This project will address problematic areas on a yearly basis as funding allows. Curb replacements will be designed to exceed a 20-year service life.



**PROJECT NOTES:**

Project No: E14035  
 E16428  
 A/E Consultant: ECMS  
 Contractor: Various  
 Award Design: Sept. 2014 & July 2017  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	88.4	40.0	60.0	60.0	60.0	600.0	908,400
Construction	445.9	425.0	460.0	460.0	460.0	3,040.0	5,290,900
Contingency		40.0	40.0	40.0	40.0	280.0	440,000
Inspection/Other	63.9	35.3	40.0	40.0	40.0	280.0	499,200
<b>TOTAL:</b>	598.2	540.3	600.0	600.0	600.0	4,200.0	\$ 7,138,500

Source of Funds							
Revenue Bond	598.2	540.3	211.4	600.0	600.0	4,200.0	6,749,900
Pay As You Go			388.6				388,600
<b>TOTAL:</b>	598.2	540.3	600.0	600.0	600.0	4,200.0	\$ 7,138,500

**OPERATIONAL IMPACT:**

Replacing rolled, damaged and failed curb and gutter improves area drainage by re-establishing overland drainage flow paths. Identifying isolated sections of failed curb and gutter for replacement before more extensive repairs are required extends the service life and is key to minimizing future improvement costs.

**PROJECT DESCRIPTION**

Department: **STORM WATER**

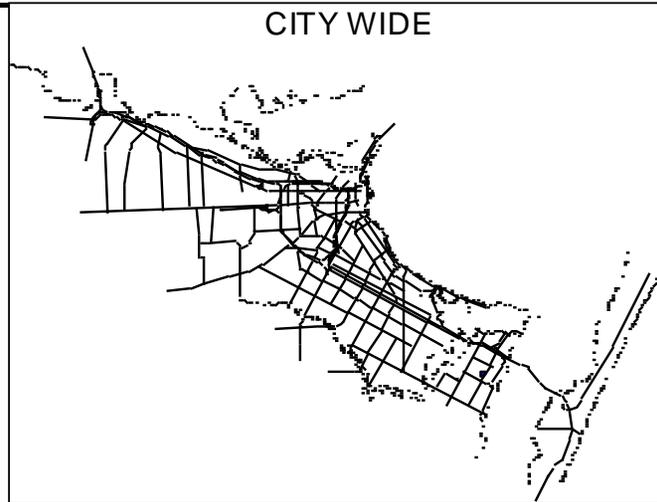
Sequence #05

**PROJECT TITLE: Minor Channel Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

This yearly project will involve minor storm water conveyance improvements, rehab to critical concrete sections, re-contouring, excavation, clearing, upgrading box culverts, scour protection and other miscellaneous best management practices throughout City to create a more positive drainage flow during low water conditions and rain events. Improvements will address critical upgrades to reduce flooding to public and private property, improve public safety, improve water quality, improve vector control and reduce long-term maintenance costs. Improvements will take place on routine basis to extent funding allows.



**PROJECT NOTES:**

Project No: E12198 / E14041  
E16457  
A/E Consultant: Various  
Contractor: Various  
Award Design: On-Going  
Award Construction: On-Going  
Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	91.0	45.0	40.0	40.0	40.0	400.0	656,000
Construction		425.0	300.0	300.0	300.0	2,030.0	3,355,000
Contingency		44.0	30.0	30.0	30.0	185.0	319,000
Inspection/Other	9.7	45.3	30.0	30.0	30.0	185.0	330,000
<b>TOTAL:</b>	100.7	559.3	400.0	400.0	400.0	2,800.0	<b>\$ 4,660,000</b>

Source of Funds							
Revenue Bond	100.7	559.3	400.0	400.0	400.0	2,800.0	4,660,000
<b>TOTAL:</b>	100.7	559.3	400.0	400.0	400.0	2,800.0	<b>\$ 4,660,000</b>

**OPERATIONAL IMPACT:**

Restoration of channels and ditches is critical to avoid potential "washouts" that may result in encroachment, flooding and undermining of adjacent public/private structures including streets, bridges, utility lines, buildings, and homes. Funding rehab/construction of minor channels ultimately can reduce operational cost due to reduced "emergency" responses and more costly maintenance actions during the lifecycle of the channel. The City complies with regulatory permits by using the following measures: pollution prevention, treatment or pollution removal, storm water monitoring and minimizing introduction of pollutants into municipal separate storm sewer system (MS4)

**PROJECT DESCRIPTION**

Department: **STORM WATER**

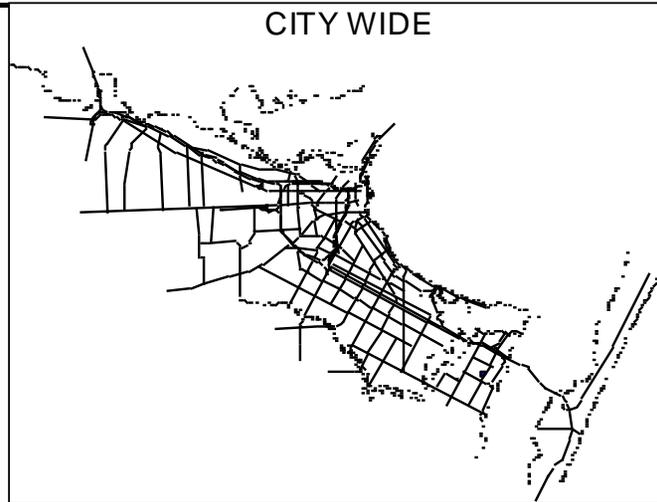
Sequence #06

**PROJECT TITLE: Bridge Rehabilitation**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55, 56 & 58-60; 2009 Storm Water Master Plan (draft); Sustainability Initiative**

**DESCRIPTION:**

The project will develop a bridge asset management program and includes inspecting all bridges on the City Bridge System and developing a cost estimate and prioritized list of improvements. This project will prepare an IDIQ contract bid documents, and prepare delivery orders for specific bridges.



**PROJECT NOTES:**

Project No: E12199  
 A/E Consultant: LJA Engineering, Inc.  
 Contractor: TBD  
 Award Design: Oct 2017  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

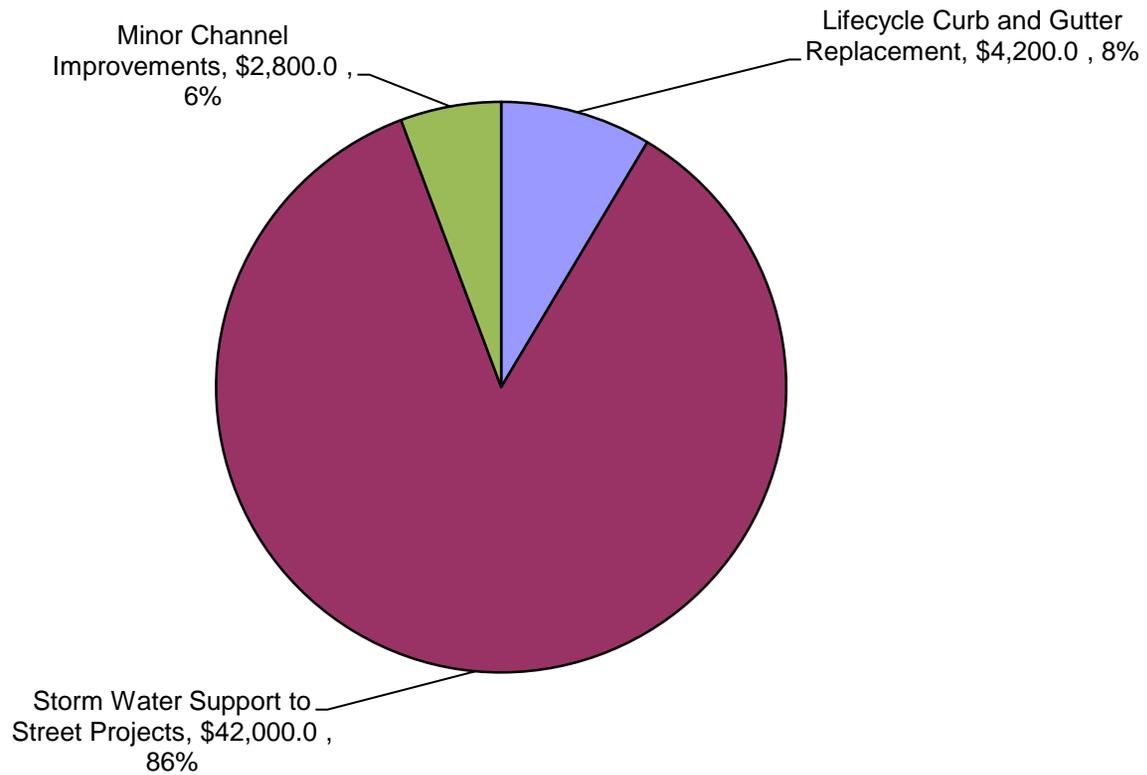
Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		175.0		50.0	50.0		275,000
Construction		675.4		450.0	450.0		1,575,400
Contingency		59.0		50.0	50.0		159,000
Inspection/Other	0.5	59.0		50.0	50.0		159,500
<b>TOTAL:</b>	<b>0.5</b>	<b>968.4</b>		<b>600.0</b>	<b>600.0</b>		<b>\$ 2,168,900</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Revenue Bond	0.5	968.4		600.0	600.0		2,168,900
<b>TOTAL:</b>	<b>0.5</b>	<b>968.4</b>		<b>600.0</b>	<b>600.0</b>		<b>\$ 2,168,900</b>

**OPERATIONAL IMPACT:**

Funding rehab/construction of bridges will decrease operational costs from reduced "emergency" responses and more costly maintenance actions during lifecycle of bridge.

**Storm Water  
Long-Range CIP: \$49,000  
(Amounts in 000's)**



## STORM WATER LONG-RANGE CIP

		<u>Long-Range Year</u>
1	<p><u>Lifecycle Curb and Gutter Replacement</u> <span style="float: right;">\$4,200,000</span></p> <p>This is an ongoing project where damaged, rolled and failed curb and gutter is removed and replaced along with associated pavement repair throughout the City. In addition to improving drainage, areas considered hazardous to vehicular or pedestrian traffic will receive priority. This project will address problematic areas on a yearly basis as funding allows. Curb replacements shall be designed to extend a 20-year service life.</p>	4, 5, 6, 7, 8, 9, 10
2	<p><u>Minor Channel Improvements</u> <span style="float: right;">\$2,800,000</span></p> <p>This yearly project will involve minor storm water conveyance improvements, rehab to critical sections, re-counting, excavation, clearing, upgrading box culverts, scour protection and other miscellaneous best management practices throughout the City to create a more positive drainage flow during low water conditions and rain events. These improvements will address critical upgrades to reduce flooding to public and private property, improve public safety, improve water quality, improve vector control and reduce long-term maintenance costs. Improvements will take place on a routine basis to the extent funding allows.</p>	4, 5, 6, 7, 8, 9, 10
3	<p><u>Ayers Street Drainage Improvements</u> <span style="float: right;">TBD</span></p> <p>The project limits are located within the Ayers Street right-of-way from Alexander Street south to Sunnybrook Road. This section of Ayers Street is an urban arterial roadway abutting commercial developments. The drainage system on the west side of the street varies from an open, grass lined ditch between driveways to concrete culverts with small grate inlets and headwalls at driveway locations. The drainage system on east side of street varies from asphalt paved swales to storm drains with small grate inlets. Both east side and west side drainage systems on Ayers Street carry flow to Gollihar Road intersection, with outfall into a 6' x 6' single box culvert flowing east on Gollihar Road. Ayers Street has asphalt pavement that is in poor to fair condition. This section of Ayers Street does not have curb or sidewalks except at Gollihar Road intersection.</p>	TBD
4	<p><u>Belaire Park Subdivision Drainage Improvements</u> <span style="float: right;">TBD</span></p> <p>Belaire Park Subdivision is bordered by Blevins Street, Kostoryz Road, Norton Street and Annapolis Drive. The subdivision was built in early 1940's with no underground drainage infrastructure, and drainage conveyance is by surface to inlet structures at street intersections. Curb subsidence, pavement cracking along gutter line and silt and leaf deposit build-up in the gutter indicates area-wide ponding during minor storm events. Construction will include curb and gutter with tied sidewalk replacement or installation, curb inlets, and storm water collector pipes throughout subdivision. Relocation of rear lot water and sanitary sewer services to street right-of-way will be accomplished. Street pavement throughout subdivision will be replaced. Proposed new trunk main collectors on Blevins Street and Norton Street will carry runoff from neighborhood collector system.</p>	TBD

## STORM WATER LONG-RANGE CIP

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| 5 | <u>Brighton Village Drainage Improvements</u>  | TBD |     |
|   | <p>The Brighton Village, Units 3 and 4, subdivision located west of Cimarron and south of Saratoga experiences significant street flooding during heavy rain events. Preliminary analysis shows there are several contributing causes. The main cause is light hydraulic grades in Wooldridge Staples Channel downstream of Cimarron Blvd. This project includes widening of Wooldridge/Staples ditch from its intersection with Mary Carroll ditch to 10' x 6' reinforced concrete box at Cimarron. Additional box culverts will be installed under Airline Rd. The 'temporary' ditches between subdivision and Saratoga Blvd. will be replaced with an underground system. Land Acquisition will be included. Downstream improvements to Mary Carroll Channel are essential to the success of this project.</p>  |     | TBD |
| 6 | <u>Castle River Drainage Improvements</u>  | TBD |     |
|   | <p>Currently this area experiences flooding during minor storm events. Two areas experience flooding are at the upstream end of the system (at McKenzie) and near the outfall of the system (at Castle Ridge). The upper end problem is lack of inlet capacity. The lower-end problem is hydraulic gradient. To resolve both areas additional storm sewer pipe and inlets will be installed. The main storm sewer will be lined to allow pressure flow.</p>  |     | TBD |
| 7 | <u>Central Park Subdivision Drainage Improvements</u>  | TBD |     |
|   | <p>This project is bordered by Carroll Lane, Brawner Parkway, South Staples Street, Weber Road and Gollihar Road. It includes development that was built between late 1930's through early 1950's. Consistent throughout the project area is the lack of any underground drainage infrastructure, the presence of curb subsidence, pavement cracking along the gutter line, and silt and leaf deposit build-up in the gutters indicating area-wide ponding during minor storm events. Runoff conveyance throughout project area is marginal and principally conveyed by surface to inlet structures at street intersections. Construction will include curb and gutter replacement, selected driveway entrance replacement, and localized separated sidewalk replacement throughout project area. Relocation of rear lot water and sanitary sewer services to street right-of-way will be accomplished. Street pavement throughout subdivision will be replaced. Parallel (with existing) trunk main collectors will be installed on Weber Road and South Staples Street to carry runoff from individual street storm sewer pipe extensions.</p> |     | TBD |
| 8 | <u>Chula Vista Area Drainage Improvements</u>  | TBD |     |
|   | <p>Chula Vista is bordered by Horne Road, Prescott Street, Gollihar Road and Greenwood Drive. Currently, this subdivision experiences flooding and standing water even during minor storm events. Outfall of the system is either west to a 5'x5' box culvert that terminates at Airport Ditch, or east to an existing 8'x6' box culvert under Horne Road that ultimately outfalls into Corpus Christi Bay. Construction will include storm sewer pipe extensions to drain subdivision. Additional inlets and replacement of deteriorated curb and gutter, driveways and sidewalk will also be included. Existing water and sewer lines are old, waterlines are undersized, and both are located within inaccessible, overgrown, and fence-obstructed "paper" alleyways behind neighborhood homes. Since neighborhood streets will be under construction for storm drain project, an opportunity to concurrently upgrade, upsize and relocate water and sewer lines to the street right-of-way will be taken.</p>  |     | TBD |
| 9 | <u>Cimarron Drainage Concrete Pilot Channel</u>  | TBD |     |
|   | <p>The project area lies in the southern portion of the City, south of Yorktown Blvd and east of Cimarron Blvd. The project specifically addresses approximately one mile of the channel south of Bill Witt Park to Oso Creek. The existing channel experiences severe erosion, creating water quality problems in the Oso and constant maintenance problems along the channel. This project proposes to regrade, stabilize and use concrete lining for ditch section to improve drainage, reduce siltation and water quality environmental concerns.</p>  |     | TBD |

## STORM WATER LONG-RANGE CIP

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| 10 | <b>CC Beach Drainage - Timon, Rincon Channel, CC Bay</b>   | TBD |     |
|    | <p>The project area lies between Corpus Christi Bay, Rincon Point, Breakwater Avenue, and West Causeway Boulevard. The area south of Breaker Avenue is divided by Highway 181 which runs south to north. The area is commercial and residential. Approximately 70 percent of the project area does not have curb and gutter. The two (2) trunk mains, east of Surfside Boulevard, are adequately sized for the five year storm event.</p>  |     | TBD |
| 11 | <b>Comfort Inn @ U.S. 77</b>   | TBD |     |
|    | <p>The continued development along U.S. 77 has created excess surface flows that require increased underground drainage structures.</p>  |     | TBD |
| 12 | <b>Club Estates, Phase II (Box Culvert Extension to Everhart)</b>  | TBD |     |
|    | <p>The project area lies in the southern portion of the City, along Everhart. The present ditch cross-section has steep side slopes confined to a narrow 90-foot right of way. The ditch is prone to erosion and slope failures. This project proposes to install an underground system in the same ROW and widen areas where sufficient ROW exist.</p>  |     | TBD |
| 13 | <b>Concrete Lined Channel Rehabilitation: Airport Ditch</b>  | TBD |     |
|    | <p>Numerous major channels are constructed with concrete-lined sections for structural integrity for the channel and to accommodate excessive storm water flow velocities. This project provides rehab to critical sections to extend the design life and maintain the drainage flow line. The project is planned over multiple years to allow for design and construction, in phases, as funding allows. The most immediate need is rehab of the Airport Ditch which is the City's largest concrete ditch extending from approximately Saratoga Blvd. to just north of Horne Road. The concrete-lined portion of Airport Ditch requires major rehab where erosion has undermined structural integrity. Additional phases will continue as funding allows.</p>   |     | TBD |
| 14 | <b>Crestmont Subdivision Area Drainage Improvements</b>  | TBD |     |
|    | <p>The scope of this project encompasses the section of Crestmont Subdivision that is bound by Holly Road (north), Kostoryz Road (east), Persimmon Street (south) and Richter Ditch (west). This project consists of alleyways that are in deteriorated condition due to poor drainage. The asphalt pavement in the alleys has failed due to heavy vehicular traffic, has caused the upheaval of the concrete curb and gutter. The existing storm water infrastructure consists of inlets located in the street that drain into Richter Ditch or into pipe network under Kostoryz Road. Construction will include storm sewer pipe extensions to drain alleyways. Additional inlets and replacement of deteriorated curb and gutter, driveways and pavement will be included. The new network will tie into the system that drains to Richter Ditch or to 66" pipe under Kostoryz Road. Additionally, due to heavy vehicular load on the alleyway pavement, alleys will be replaced with concrete to minimize recurrence of upheaval of the curb and gutter.</p> |     | TBD |
| 15 | <b>Cullen Place Subdivision Drainage Improvements</b>  | TBD |     |
|    | <p>This area is generally bordered by Airline Road, Cullen Ditch, Sheppard St. and McArdle Rd. and is characterized by surface runoff with little underground storm sewer pipe. Improvements will include additional underground storm sewer pipe, removal and replacement of selected sections of curb and gutter and additional outfall capacity.</p>  |     | TBD |

## STORM WATER LONG-RANGE CIP

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| 16 | <u>Cupier/Port Ayres/Edgewood Park Drainage Improvements</u>   | TBD |     |
|    | <p>The Cupier/Port Ayres/Edgewood Park project area is located east of Crosstown Expressway, bounded on the north by Horne Road, the east by Kostoryz Road, the south by Gollihar Road, and the west by Ayers Street. Currently, the area experiences flooding and standing water during minor storm events due to lack of underground drainage infrastructure. Drainage conveyance is by surface to street intersection inlets in the area street boundary (i.e. Horne Road, Kostoryz Road, Gollihar Road and Ayers Street). The project area is in two phases, by drainage sub-basin east to west divided along Alexander Street. Construction will include curb and gutter with tied sidewalk replacement, local separated sidewalk and driveway entrance replacement, curb inlets and storm water collector pipes throughout project area. Relocation of rear lot sanitary sewer services to street right of way is included in project scope. Street pavement throughout area will be replaced. Proposed trunk main collector on Cupier Street and Ramsey Street will carry neighborhood runoff to Brawner Parkway drainage system as part of Phase 1. In Phase II, proposed neighborhood collectors between Kilgore Street and Ivy Lane will tie into the Gollihar Road box culvert.</p> |     | TBD |
| 17 | <u>Ditch / Channel Regrading, Excavation and Clearing</u>  | TBD |     |
|    | <p>This yearly project will involve minor re-contouring, excavation, clearing and other various improvements to ditches and channels throughout the City to create a more positive drainage flow during low water conditions and rain events. Improvements will take place on a routine basis to the extent funding allows.</p>  |     | TBD |
| 18 | <u>Drainage Channel Excavation – Clarkwood Ditch from Hwy 44 to Oso Creek</u>  | TBD |     |
|    | <p>The Clarkwood Ditch was initially constructed with steep side slopes with a capacity of less than a 25 year frequency storm. Since development has been slow in this area, siltation has occurred further reducing capacity and slope failures in various areas. This project will provide a cross-section with 4:1 side slopes and a 25-year frequency capacity. Bottom stabilization and seeding will also be provided.</p>   |     | TBD |
| 19 | <u>Drainage Channel Excavation - LaVolla Creek/Margaret Kelley Channel Improvements</u>  | TBD |     |
|    | <p>This project will involve improvement of La Volla Creek that crosses S.H. 357 (Saratoga Blvd.) under a new bridge structure proposed by Texas Department of Transportation. The project will include acquisition of right-of-way as required and permits necessary to realign and provide channel enhancements to La Volla Creek, both north and south of Saratoga Boulevard to Oso Creek. The project will provide 100-year capacity in the channel. This project also includes cleaning and grading of Saratoga Downs Ditch and Airport Ditch. Phase I includes removal of vegetation from the channel in the vicinity and upstream of the bridge. Phase II includes the balance of the channel improvements.</p>   |     | TBD |
| 20 | <u>Drainage Channel Excavation - Master Channel No. 29</u>   | TBD |     |
|    | <p>Drainage Channel No. 29 was initially constructed with 2.5:1 side slopes and had a capacity of less than a 25 year frequency storm. Since development has been slow in this area, siltation has occurred further reducing capacity. This project will provide a cross-section with 4:1 side slopes and a 25-year frequency capacity (Tributary area &lt;500 acres). Bottom stabilization and seeding will also be provided.</p>   |     | TBD |

## STORM WATER LONG-RANGE CIP

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| 21 | <b>Drainage Channel Excavation - Master Channel No. 31</b>   | TBD |     |
|    | Master Channel 31 was constructed in various phases in conjunction with development in the area. The side slopes and bottom are severely eroded resulting in poor drainage and encroachment of ditch outside of City ROW. This project will provide critical improvements to restore and improve drainage profile and include erosion control measures such as side slope stabilization, soil treatment, vegetative cover and other best management practices. This project is planned in multiple phases as funding allows.   |     | TBD |
| 22 | <b>Ebony Acres Subdivision Drainage Improvements</b>   | TBD |     |
|    | The Ebony Acres project area is bounded by North Padre Island Drive on the east, IH-37 to the north, Corn Products Road to the west, and Leopard Street along the south. The "Weil Ditch" conveys storm water flows from the area; the upstream end begins just south of Leopard Street and the outfall is to a multiple box culvert (3 - 5' x 4') under IH-37. The project addresses the Weil Ditch conveyance system by replacement of open channel with a reinforced concrete box system: 2 – 10' x 2' box culverts from Leopard Street to Hampshire Road; 2 – 10' x 4' box culverts from Hampshire Road to Horizon Drive; and 3 – 10' x 4' box culverts from Horizon Drive to I-37. Work also includes filling existing ditch and connecting existing storm sewer outlets to the closed system.  |     | TBD |
| 23 | <b>Greenwood Park Area Drainage Improvements</b>   | TBD |     |
|    | The boundaries of Greenwood Park subdivision are Sycamore Place (north), Castenon Street (east), Trojan Drive (south), and Greenwood Drive (west). Currently, this subdivision experiences flooding and standing water even during minor storm events. The existing storm water infrastructure consists of a pair of inlets located at the western end of each street, which drain into the pipe network under Greenwood Drive. The storm sewer systems under Greenwood Drive and Trojan Drive combine at the intersection of these two streets, and outfall to Airport Ditch to the west through a 6' x 6' box. Construction will include storm sewer pipe extensions to drain subdivision. Additional inlets and replacement of deteriorated curb and gutter, driveways, and sidewalk will be included. Current capacity of storm sewer system under Greenwood Drive and Trojan Drive is inadequate and will require additional conveyance capacity. Phase One of this project has been completed. Phase Two consists of upgraded system under Greenwood Drive and includes connector pipes to neighborhood streets, which neighborhood network will tie into. Phase Three includes entire neighbor system; streets draining this area are Blackjack Place, Sycamore Place, Birch Place, Hemlock Place, Hickory Place, and Bois D'Arc Place. |     | TBD |
| 24 | <b>Gollihar Drive System - Ayers to Ocean Drive</b>  | TBD |     |
|    | This project upgrades the Gollihar Road drainage system to convey discharge of a 100-year frequency rainfall event. The existing underground storm drain system is approximately 40 years old and begins at Prescott Street, runs along Gollihar Road to Marie Street, turns and continues to the northeast crossing Staples Street, Alameda Street, and Ocean Drive, to outfall into Corpus Christi Bay. The system is undersized and cannot convey the discharge from storms of any significant magnitude.   |     | TBD |

## STORM WATER LONG-RANGE CIP

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| 25 | <u>Hereford Road Storm Drainage Improvements</u>  | TBD |     |
|    | <p>The boundaries of this project are Leopard Street on the north, Agnes Street on the south, McBride Street on the east, and Highway 358 on the west. Hereford Road runs south to north approximately in the center of this mainly industrial area. The existing drainage is into ditches on either side of Hereford Road, which drain to a single 18" pipe near the south end of the area. This pipe runs east and ties into a storm drainage system on McBride Street. Construction includes replacement of existing ditches with closed conduits (approximately 4,000 linear feet on the east and west ROW of Hereford Road between Agnes Street and Leopard Street). A 66" diameter, 750' long trunk main collector will cross Leopard Street and connect to an existing 6' x 5.5' box culvert at McBride Lane intersection.</p>         |     | TBD |
| 26 | <u>Downtown Drainage Improvements, Phase 3 (Hughes St. Pump Station Interceptor &amp; Discharge)</u>  | TBD |     |
|    | <p>Phase 3 is the final design phase to alleviate flooding in the Arena and Port areas. This project is being phased into three parts including: Phase 3A – Construction of a new automated pump station to screen and pump approximately 1,100 CFS of storm water to the Ship Channel; Phase 3B - Hughes Street Box Culvert and Pump Station Discharge, construction of 220 linear feet of twin 6' x 5' box culvert to collect storm water from ditch located west of Harbor Bridge and deliver it to the new Hughes Street Pump Station and from the new Hughes Street Pump Station to the Ship Channel; Phase 3C Mesquite Street Box Culvert – construction of 3 box culverts to divert flows from Power Street Pump Station to the new Hughes Street Pump Station. Construction will take place over several years as funding allows.</p> |     | TBD |
| 27 | <u>Inwood Village Area Drainage Improvements</u>  | TBD |     |
|    | <p>The Inwood Village subdivision is bounded by Gollihar Rd, Crosstown Expressway, Trojan Dr. and Prescott St. Although there are underground storm sewers in Prescott, Vestal, and Garden Dr., drainage in the area is predominately surface flow along gutters. Pavement of area streets is in fair to good condition. However, gutters are uneven with many sunken or heaved areas. This project will add additional internal drainage, full pavement replacement and ½ curb and gutter and driveway replacement is included. The bulk of this area drains to upstream end of Gollihar system. Improvements in the form of increased capacity are needed to that system so drainage systems in this area will function properly.</p>   |     | TBD |
| 28 | <u>Lamar Park Subdivision Area Drainage Improvements</u>  | TBD |     |
|    | <p>This area is bordered by Santa Fe Street, Everhart Road, Alameda Street and Brawner Parkway and is characterized by surface runoff with little underground storm sewer pipe. The area drains from Alameda Street toward Santa Fe Street. Extension of the under-ground storm sewer system into the subdivision will be necessary to reduce gutter flow distances. Improvements will also include removal and replacement of selected sections of curb and gutter and additional outfalls.</p>  |     | TBD |
| 29 | <u>Lindale Phase II Neighborhood Drainage Improvements</u>  | TBD |     |
|    | <p>The Lindale Area Subdivision experienced frequent flooding during normal rain events. Previous phases of this project extended a large underground box culvert from Shoreline Blvd. to Reid Drive. This phase of project provides for extension of drainage trunk main and new laterals with inlets to reduce flooding.</p>  |     | TBD |

## STORM WATER LONG-RANGE CIP

30	<u>Lindale Senior Center Drainage Improvements, Phase 3</u>	TBD	
	Lindale Drainage Phase 3A will provide drainage relief for the next phase of Lindale Area Drainage Improvements. The project will result in drainage improvements to serve McCall Street and Lindale Senior Center. Drainage will connect to previously installed drainage improvements on Reid Street that drain into Alameda Drainage Basin. The project will result in installation of 24-in, 30-in, 36-in and 48-in RCP storm water mains, manholes, inlets, McCall Street reconstruction, water system improvements, curb ramps, sidewalks, driveway ramps, and other improvements necessary to complete the project.		TBD
31	<u>Major Ditch Improvements</u>	TBD	
	The City has approximately 100 miles of major ditches. As part of the programmatic approach to implement lifecycle improvements, this project will identify and prioritize ditch improvements to include regrading, slope recontouring and stabilization, pilot channels and concrete lining upgrades and other best management practices. These improvements will address critical upgrades to reduce flooding to public and private property, improve public safety, improve water quality and reduce long-term maintenance costs. This is a yearly program which will address problems as funding allows.		TBD
32	<u>Mansheim Area Drainage Improvements</u>	TBD	
	The Mansheim Area Subdivision experienced frequent flooding during nominal rain events. Previous phases of this project extended underground trunk main system to Mansheim Road. This phase of the project provides for extension of drainage trunk main and new laterals with inlets to reduce flooding.		TBD
33	<u>Magee Drainage Ditch Improvements</u>	TBD	
	The project limits of the Magee Drainage Ditch Improvements extend from Up River Road approximately 2500 feet north to Nueces River, and from Sharpsburg Road approximately 1500 feet east to Magee Lane. The project vicinity includes the area designated as the Pollywog Pond Nature Sanctuary (PPNS). Magee Ditch begins at the box culvert outfall on the north side of Interstate Highway 37, and carries the flow north from this point toward Up River Road. Homeowners in the area have reported repeated incidents of flooding on their property due to backwater in Magee Ditch and additional floodwater coming from the west along the south border of PPNS toward Magee Ditch. The floodwater is reportedly coming from overtopping of the Railroad Ditch. A new grass lined ditch is proposed between the Railroad Ditch and Magee Ditch, along the south border of the PPNS and north of the gas pumping station and wastewater lift station. The direction of flow will be east. A concrete spillway is proposed to feed overflow from the Railroad Ditch into this new ditch.		TBD
34	<u>McNorton Channel Improvements, Phase 2</u>	TBD	
	McNorton Subdivision is located south of Leopard Street, east of Rand Morgan Road, and west of Clarkwood Road. Phase I, McNorton Channel improvements, were completed under a previous project. Phase II of the project improves the inlet section of the 30" RCP that drains the area north of the subdivision. The pipe runs under Blanco Road and outfalls into McNorton Ditch. The inlet has an end treatment which has been collecting trash and debris from agricultural field located north of the subdivision; when plugged, the water spills over embankment and floods nearby homes. To relieve inlet plugging, three debris deflectors will be installed. Construction will include excavation to widen channel to the north of existing inlet, and to construct a swale between lots 1 and 25 on the northern side of McNorton Road.		TBD

## STORM WATER LONG-RANGE CIP

35	Meadowbrook Subdivision Drainage Improvements	TBD	
	The Meadowbrook Subdivision experiences flooding during nominal rain events. Work would include extension of the drainage trunk main and new laterals with inlets to reduce flooding.		TBD
36	Minor Storm Drainage Improvements	TBD	
	The City has approximately 14 miles of minor ditches. As part of the programmatic approach to implement lifecycle improvements, this project will identify and prioritize ditch improvements to include regrading, slope re-contouring and stabilization, pilot channels and other best management practices. These improvements will address critical upgrades to reduce flooding to public and private property, improve public safety, improve water quality, improve vector control and reduce long-term maintenance costs. This is a yearly program that addresses areas to be improved as funding allows.		TBD
37	Oso Place Subdivision Drainage Improvements	TBD	
	This area is generally bordered by Whitaker Dr., Oso Golf Course, Woodlawn St., and McArdle Rd. and is characterized by surface runoff with little underground storm sewer pipe. Improvements will include additional underground storm sewer pipe, removal and replacement of selected sections of curb and gutter and additional outfall capacity.		TBD
38	Parkdale Village Subdivision Drainage Improvements	TBD	
	This subdivision is bounded by Gollihar Rd., Mildred Dr., Totton Dr., and French Dr. The area is characterized by surface runoff with minimal underground drainage systems. This project will install additional drainage systems to relieve existing system and provide adequate system capacity.		TBD
39	Ramfield Road Drainage Improvements	TBD	
	A minimal drainage system consisting of shallow roadside ditches and a natural swale across private property currently serve this area. Improvements proposed include excavation of a channel to serve the area as well as underground pipe system to drain roadside ditches to the new channel. Drainage easements to accommodate new improvements will be required.		TBD
40	Reflections Park Drainage Improvements	TBD	
	The existing drainage system is comprised of open channels/ditches with some underground drainage systems. The open ditches experience severe erosion, creating problems in the park and drainage problems upstream.		TBD

## STORM WATER LONG-RANGE CIP

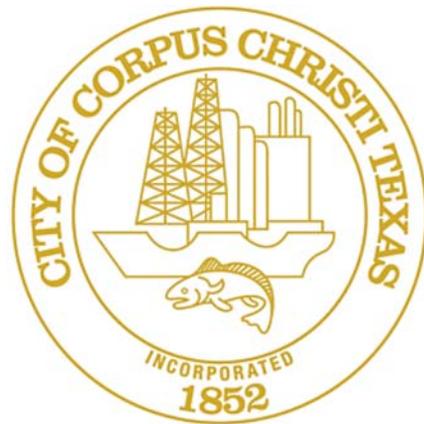
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| 41 | <u>Sam Houston Subdivision Drainage Improvements</u>  | TBD |     |
|    | <p>Sam Houston Subdivision is bordered by Norton Street, Kostoryz Road, Brawner Parkway and Ramsey Street. The subdivision was built in early to mid 1950's with no underground drainage infrastructure, and drainage conveyance is by surface alone to inlet structures at street intersections. Curb subsidence, pavement cracking along gutter line and silt and leaf deposit build-up in gutter indicates area-wide ponding during minor storm events. Construction will include curb and gutter with tied sidewalk replacement or installation, driveway entrance replacement, curb inlets, and storm water collector pipes throughout subdivision. Relocation of rear lot water and sanitary sewer services to street right-of-way will be accomplished. Street pavement throughout subdivision will be replaced. Underground storm sewer pipe extension to the north will connect to Norton Street trunk main at street intersections from Wynwood Drive to Brentwood Drive. A similar underground storm sewer pipe extension system will drain subdivision to the south. Extensions of pipe will connect Brawner Ditch box culvert at each street intersection between Wynwood Drive and Brentwood Drive.</p> |     | TBD |
| 42 | <u>Schanen Ditch Improvements</u>   | TBD |     |
|    | <p>The existing profile of Schanen Ditch exceeds recommended slope of 4:1 and maximum of 3:1 resulting in major slope stabilization failure in multiple areas near Yorktown Bridge. Work includes major ditch improvements with excavation/backfill to widen and create 3:1 side slopes with stabilization matting, new culvert and outfalls, riprap and ditch bottom improvements, seeding, irrigation adjustments, traffic controls, dewatering and miscellaneous items according to plans and specifications.</p>  |     | TBD |
| 43 | <u>Solar Estates Drainage Improvements</u>  | TBD |     |
|    | <p>Solar Estates Subdivision was built in the 70's and is located south of IH 37, east of Rand Morgan Road and north of Leopard Street. Drainage conveyance for this subdivision is characterized by surface flow with no underground drainage infrastructure. Currently, the subdivision experiences flooding and standing water even during minor storm events. Existing outfall is either south to a roadside ditch along Leopard Street or north to an existing box culvert under IH 37, with existing inlets and storm drain pipe servicing each outfall. A hydraulic analysis is necessary to determine conveyance of surface flow through underground storm drainage pipes and possible additional outfall capacity to existing roadside ditches. Future construction will include storm sewer pipe extensions, additional inlets, replacement of deteriorated curb and gutter, driveways and sidewalk.</p>  |     | TBD |
| 44 | <u>Support of Downtown Redevelopment Projects - Storm Water Line Adjustments</u>  | TBD |     |
|    | <p>This project is programmed to support redevelopment in the Downtown area. As projects in the downtown area materialize, this project will provide required funding to complete the storm water component. Work could include curb and gutter replacements, new inlets and underground drainage pipes, as necessary and as funding allows.</p>  |     | TBD |
| 45 | <u>Unanticipated Storm Water Requirements</u>   | TBD |     |
|    | <p>These are storm water funds to be made available on a yearly basis for unanticipated projects or emergencies.</p>  |     | TBD |
| 46 | <u>Utica Street Drainage Improvements</u>   | TBD |     |
|    | <p>This area is prone to frequent flooding with nominal storm events. The drainage system requires increased capacity for inlets and underground system.</p>  |     | TBD |

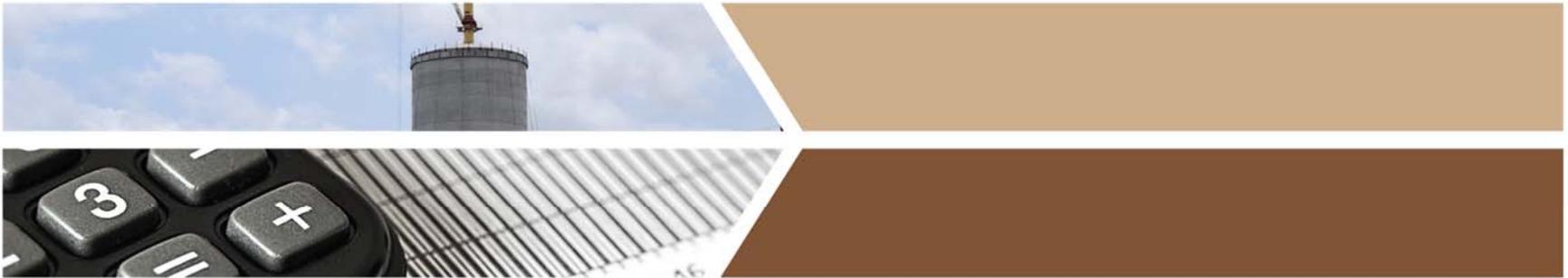
## STORM WATER LONG-RANGE CIP

- |    |   |     |     |
|----|---|-----|-----|
| 47 | <u>Utility Developer Participation - Storm Water</u>  | TBD |     |
|    | <p>Under the Platting Ordinance, the City participates with developers on utility construction for oversized main lines. This project will provide for the City's share of such projects as necessary, up to the approved amount.</p>   |     | TBD |
| 48 | <u>Utility Building Expansion</u>   | TBD |     |
|    | <p>This project will provide a facility assessment and space utilization study for the Utility Building. To support continued growth of the City, new regulatory requirements combined with increased demands of an aging infrastructure, and increased responsibilities, has forced operating departments to increase staff. The existing facility is now insufficient to support operational needs. The current facility negatively impacts mission, quality of life and personnel safety, and increases operational costs. Departments are forced to assign staff to other City buildings, procure off-site rental space, use "Temporary" trailers since 2004, and sacrifice equipment staging area for these trailers.</p>  |     | TBD |
| 49 | <u>Village on the Green Area Drainage Improvements</u>  | TBD |     |
|    | <p>Village on the Green is located north of Bear Lane and west of Navigation Boulevard. Currently, this subdivision experiences flooding and standing water during minor storm events. The subdivision was built in early 1970's with no underground drainage infrastructure, and drainage conveyance is by surface to shallow concrete swales at the end of sixteen cul-de-sacs. These sixteen swales drain to overland swales or post inlets located in common areas behind and between lots. Post inlets convey water through existing 18" and 36" reinforced concrete pipes, and outfall to Enterprise Drainage Ditch, which runs along the western edge of the development. The majority of the curb and gutter and driveway entrances have settled, contributing to significant ponding and pavement deterioration throughout the subdivision. Construction will include storm sewer pipe extensions, additional inlets, and replacement of deteriorated curb and gutter and driveways. One major trunk line (21" - 60") will be added (Phase I), and two existing trunk lines will be upgraded in capacity (15" - 36" and 27" - 48") and extended further upstream than current reach.</p> |     | TBD |
| 50 | <u>West Broadway Drainage Improvements</u>  | TBD |     |
|    | <p>A 42-inch diameter line crosses W. Broadway at Cabra St. This line previously drained into a swale along a railroad spur line to Tanchua St. With removal of spur line and abandonment of railroad right of way, property owner has filled in the swale. Water from this pipe now flows into the Broadway Treatment Plant property causing flooding problems. Phase I will extend a pipe from West Broadway to existing 36-inch line at Resaca and US 181 Right of way. Phase II will provide a parallel line along Resaca from US 181 to Trunk Main on Water St.</p>  |     | TBD |
| 51 | <u>Williams Drive Channel Improvements</u>  | TBD |     |
|    | <p>This project will increase drainage outfall capacity east of Rodd Field Road/Williams Street intersection to Cayo Del Oso Development in the tributary area. Improvements to Williams Drive storm sewer system, as part of a street improvement project, will generate additional storm water flows. The channel will be widened to accommodate a 100-year frequency storm. The concrete apron at the Rodd Field Road storm sewer box will be extended to provide erosion protection. Right of way acquisition is a major part of this project. Phase I is the design and survey. Phase II is the right of way acquisition and construction.</p>   |     | TBD |

**STORM WATER  
LONG-RANGE CIP**

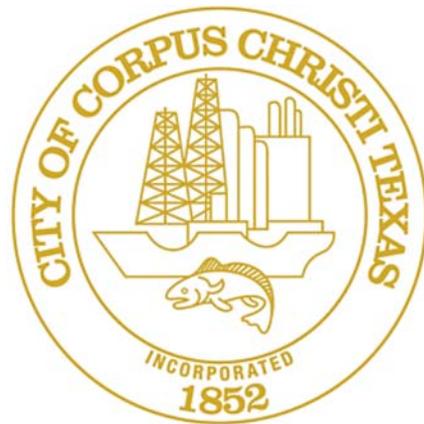
52	Williams Drive Outfall Project (Construction)	TBD	TBD
	<p>This project is part of Bond 2008 Williams Drive Project and is necessary to accommodate projected storm water flows. This project provides for "off-site" drainage improvements required to convey storm water from project site to receiving outfall waters. These improvements are necessary to move additional flows associated with street and other storm water improvements such as curb &amp; gutter, inlets and underground drainage.</p>		
53	Willow/Brawner Parkway/Proctor Channel Outfall, Phase I	TBD	TBD
	<p>The Gollihar Storm Box System and Brawner Parkway/Proctor Channel Systems have combined drainage of over 5,000 acres. A previous study of this system established the need for a phased approach to interconnect adjacent basins to relieve excess flows and improve overall drainage.</p>		
54	Windsor Park/Claremont Subdivision Drainage Improvements	TBD	TBD
	<p>This area is generally bounded by Alameda, Airline, Gollihar and Everhart and is characterized by surface runoff with little underground storm sewer pipe. A hydraulic analysis is indicated to determine extent of underground pipe necessary and the capacity of existing outfall(s) for the area. Improvements will include additional underground storm sewer pipe and additional outfall capacity. Reconstruction of streets within Windsor Park Subdivision will be necessary to achieve proper drainage.</p>		
55	Storm Water Utility Support to Street Bond Projects	\$42,000,000	TBD
	<p>This project will provide financial support for all storm water improvements required for future street bond projects.</p>		
<b>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</b>		<b>\$49,000,000</b>	

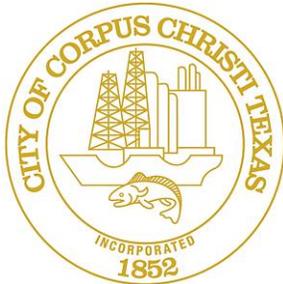




# WATER SUPPLY

Obligation to the Future





# CITY OF CORPUS CHRISTI WATER SUPPLY PROGRAM

Water Supply projects are designed to maintain the City's existing water supply facilities and to provide additional delivery facilities and secure new water supply sources. Corpus Christi's primary water supply source is the Choke Canyon / Lake Corpus Christi Reservoir System within the Nueces River Basin. These reservoirs are fed by the Nueces, Frio and Atascosa Rivers. The upper reaches of these rivers flow through the Edwards Aquifer Recharge Zone. Additional water is supplied by Lake Texana and the Colorado River via the Mary Rhodes Pipeline. The first phase of the Mary Rhodes Pipeline was completed in September, 1998 and extends 101 miles from Lake Texana, near Edna, Texas and the second phase extends an additional 42 miles from Bay City and connects at the intake at Edna, Texas. The pipeline delivers water to the O.N. Stevens Water Treatment Plant (ONSWTP) in Corpus Christi.

In 1992, the City entered into an option agreement for the purchase of 35,000 acre-feet per year of water rights in the Colorado River from the Garwood Irrigation Company. Use of the water requires transmission from the Colorado River through the Mary Rhodes Pipeline to Lake Texana. In February 2014, two construction contracts were awarded to complete the second phase of the Mary Rhodes Pipeline. This project is anticipated to be completed in Fiscal Year 2017 or early Fiscal Year 2018.

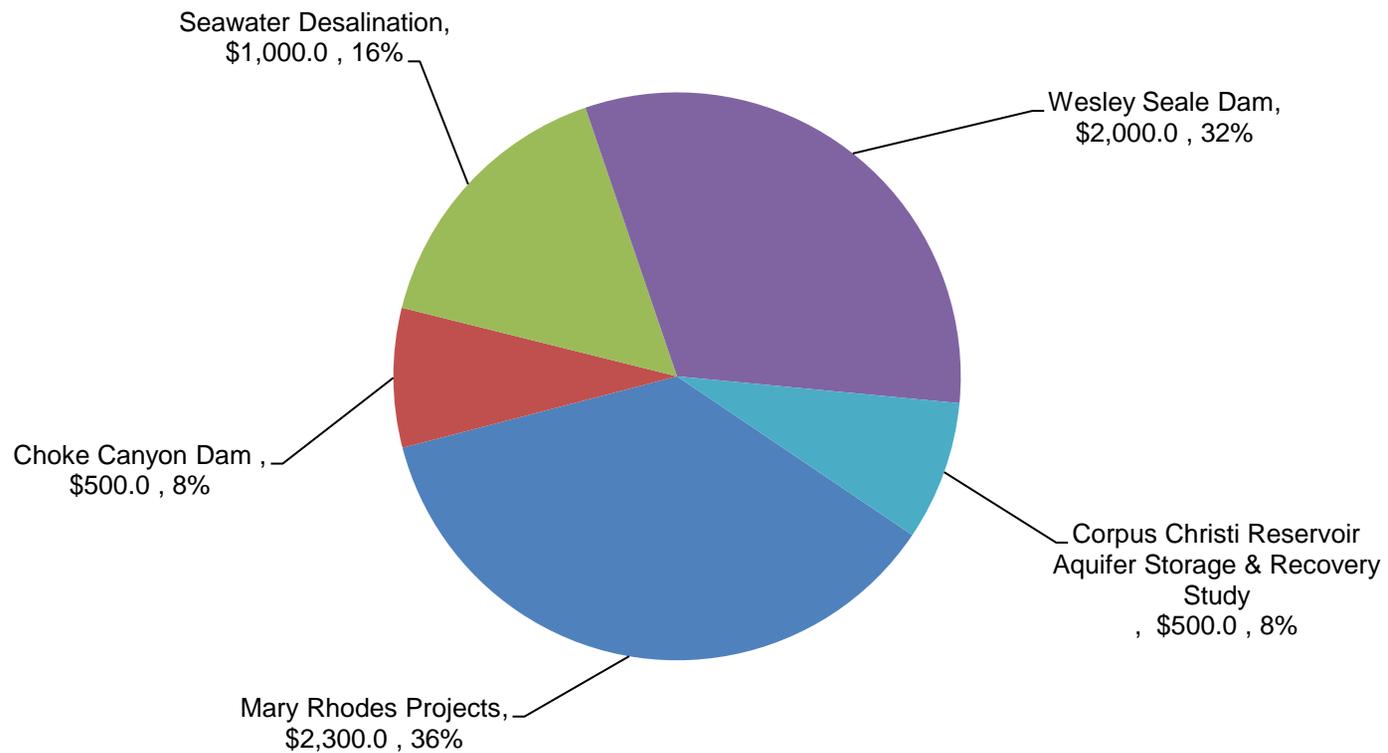
A second project to ensure the City's future water supply is a Seawater Desalination project. The recent drought-of-record conditions experienced in Texas prompted a collaborative effort in Corpus Christi to evaluate the feasibility of developing a non-curtailable seawater desalination supply. The current Capital Improvement Program budget represents developing the preliminary study of the Seawater Desalination in joint efforts with industrial stakeholders.

A third project started in late FY 2016 is the Aquifer Storage and Recovery (ASR) Feasibility Study. ASR is a proven technology for storing excess water underground which provides a long-term water resource that can be effectively integrated into the City's regional water supply system to achieve long-range water planning goals. ASR would promote diversification of regional water supplies, help provide cost-effective regional water supplies to meet competing demands and improve system operations.

A recap of the budgeted expenditures includes:

<b>EXPENDITURES:</b>	<b>YEAR ONE 2017 – 2018</b>	<b>YEAR TWO 2018– 2019</b>	<b>YEAR THREE 2019 – 2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 6,300,000</b>	<b>\$ 6,000,000</b>	<b>\$ 3,800,000</b>
<b>FUNDING:</b>			
Choke Canyon Trust Fund	<b>\$ 500,000</b>	<b>\$ 2,000,000</b>	<b>\$ 1,000,000</b>
New Debt (Revenue Bonds)	<b>\$ 5,800,000</b>	<b>\$ 4,000,000</b>	<b>\$ 2,800,000</b>
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 6,300,000</b>	<b>\$ 6,000,000</b>	<b>\$ 3,800,000</b>

**Water Supply  
Annual CIP: \$6,300  
(Amounts in 000's)**



**WATER SUPPLY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WS 01	<b>Mary Rhodes Water Supply Pipeline, Phase 2</b> Finance and Engineering Number: E10008	155,472.5	11,794.9				
WS 02	<b>Mary Rhodes Pipeline Phase 1 Pump Station Improvements</b> Finance and Engineering Number: E13037	11.8	523.8	1,000.0	1,000.0		2,000.0
WS 03	<b>Mary Rhodes Pipeline Cathodic Protection Upgrade</b> Finance and Engineering Number: E13068			1,000.0			1,000.0
WS 04	<b>Mary Rhodes Pipeline Office Building</b> Finance Number: 8663 Engineering Number: E14055			300.0			300.0
WS 05	<b>Choke Canyon Dam Spillway Gate Rehabilitation</b> Finance and Engineering Number: E14043	3,461.2	1,063.7				-
WS 06	<b>Choke Canyon Dam Infrastructure Improvements</b> Finance and Engineering Number: E13050	3.1	1,496.8	500.0	2,000.0	1,000.0	3,500.0
WS 07	<b>Wesley Seale Dam Infrastructure Improvements</b> Finance and Engineering Number: 180548	501.8	348.6	2,000.0	1,000.0		3,000.0
WS 08	<b>Wesley Seale Dam Spillway Gates Rehabilitation</b> Finance and Engineering Number: TBD				1,000.0	1,800.0	2,800.0

**WATER SUPPLY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WS 09	<b>Seawater Desalination</b> Finance and Engineering Number: E15117			<b>1,000.0</b>	1,000.0	1,000.0	<b>3,000.0</b>
WS 10	<b>Corpus Christi Aquifer Storage and Recovery (ASR) Feasibility Study</b> Finance and Engineering Number: E16265	607.3	1,173.6	<b>500.0</b>			<b>500.0</b>
	<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>160,057.7</b>	<b>16,401.4</b>	<b>6,300.0</b>	<b>6,000.0</b>	<b>3,800.0</b>	<b>16,100.0</b>

**WATER SUPPLY  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	<b>CIP Budget Year 1 2017 - 2018</b>	Year 2 2018 - 2019	Year 3 2019 - 2020	<b>Three Year Total</b>
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**CURRENTLY AVAILABLE FUNDING:**

	Revenue Bond	148,022.0	12,667.3				
	Texas Water Development Board	8,241.0					
	Water Operating	330.4					
	Raw Water Supply Fund		1,173.6				
	Choke Canyon Trust Fund	3,464.3	2,560.5				
	<b>Total Currently Available:</b>	<b>160,057.7</b>	<b>16,401.4</b>				

**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			5,800.0	4,000.0	2,800.0	12,600.0
	Choke Canyon Trust Fund			500.0	2,000.0	1,000.0	3,500.0
	<b>Total Recommended Funding:</b>			<b>6,300.0</b>	<b>6,000.0</b>	<b>3,800.0</b>	<b>16,100.0</b>
	<b>TOTAL PROGRAMMED FUNDS:</b>	<b>160,057.7</b>	<b>16,401.4</b>	<b>6,300.0</b>	<b>6,000.0</b>	<b>3,800.0</b>	<b>16,100.0</b>

## PROJECT DESCRIPTION

Department: WATER SUPPLY

Sequence #01

### PROJECT TITLE: Mary Rhodes Water Supply Pipeline, Phase 2

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

In 1992, the City entered into an option agreement for the purchase of up to 35,000 acre-feet per year of water rights from Garwood Irrigation Company. Use of water requires routing transmission facilities from Colorado River to the Mary Rhodes Pipeline at a point just downstream of Lake Texana. Design was complete in Fiscal Year 13. Construction Contracts awarded in Fiscal Year 14. Major elements of this project include pump station, sedimentation basin, about 41 miles of water line, and 6 million gallon ground storage tank and tie-in to an existing pipeline. Construction was substantially completed in 2016.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E10008  
 A/E Consultant: Freese & Nichols, Inc.  
 Contractor: Oscar Renda Const.  
 Contractor: Garney Companies  
 Award Construction: Feb 2014  
 Anticipated Completion: Aug 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	18,648.9						18,648,900
Construction	125,993.7	9,000.0					134,993,700
Contingency		1,000.0					1,000,000
Inspection/Other	1,019.0	1,794.9					2,813,900
Land Acquisition	9,810.9						9,810,900
<b>TOTAL:</b>	<b>155,472.5</b>	<b>11,794.9</b>					<b>\$ 167,267,400</b>
<b>Source of Funds</b>							
Revenue Bond	147,508.4	11,794.9					159,303,300
Texas Water Development Board	7,964.1						7,964,100
<b>TOTAL:</b>	<b>155,472.5</b>	<b>11,794.9</b>					<b>\$ 167,267,400</b>

**OPERATIONAL IMPACT:**

Construction will be completed in FY 2017. Maintenance and operational costs will increase but corresponding revenues will also increase with the additional water consumption.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

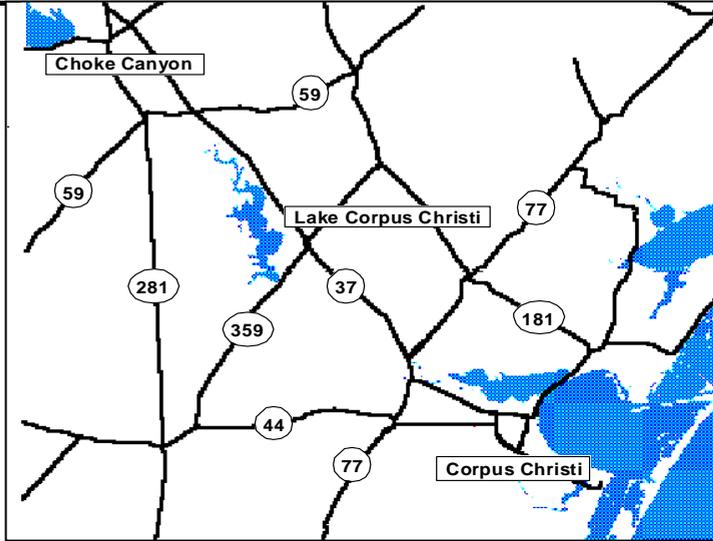
Sequence #02

**PROJECT TITLE: Mary Rhodes Pipeline Phase 1 Pump Station Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Improvements to existing Mary Rhodes system are required to reliably transfer additional water from proposed Phase 2 pipeline through existing Phase 1 pipeline. This project is to replace and upgrade components in the existing Lake Texana Intake Pump Station and Woodsboro and Bloomington Pump Stations to convey additional 35,000 acre feet of water each year.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E13037  
 A/E Consultant: HDR  
 Award Design: TBD  
 Contractor: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		300.0					300,000
Construction			800.0	800.0			1,600,000
Contingency			100.0	100.0			200,000
Inspection/Other	11.8	223.8	100.0	100.0			435,600
<b>TOTAL:</b>	11.8	523.8	1,000.0	1,000.0			\$ 2,535,600
<b>Source of Funds</b>							
Revenue Bond	11.8	523.8	1,000.0	1,000.0			2,535,600
<b>TOTAL:</b>	11.8	523.8	1,000.0	1,000.0			\$ 2,535,600

**OPERATIONAL IMPACT:**

This project will improve pipeline efficiencies and reduce costs.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

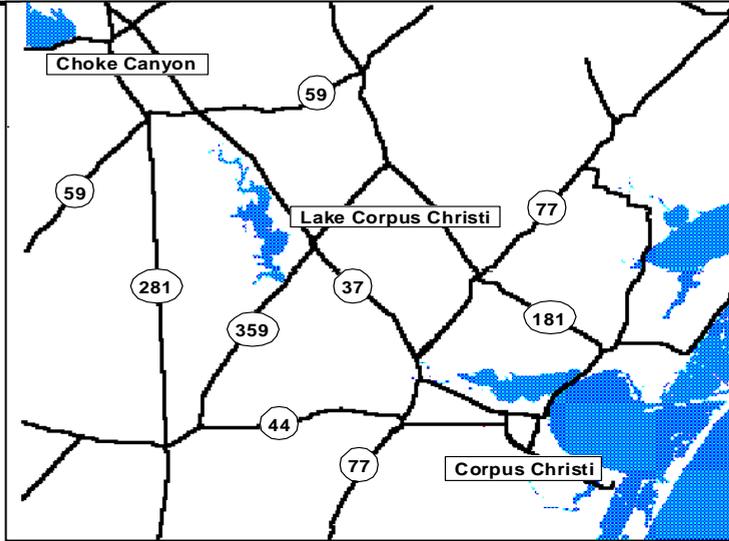
Sequence #03

**PROJECT TITLE: Mary Rhodes Pipeline Cathodic Protection Upgrade**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Cathodic protection is necessary to protect buried pipeline from corrosion. The cathodic protection system for Mary Rhodes Pipeline Phase 1 was installed in 1990s and is close to its service life. This project includes installation of 6 new test stations with zinc anode ground beds, installation of zinc anodes at 15 existing test stations, and removal and replacement of portions of test station components at 126 existing test stations.



**PROJECT NOTES:**

RAW WATER SUPPLY  
 Project No: E13068  
 A/E Consultant: Russell Corrosion  
 Award Design: Sept 2015  
 Contractor: TBD  
 Award Construction: Oct 2017  
 Anticipated Completion: Aug 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			80.0				80,000
Construction			800.0				800,000
Contingency			80.0				80,000
Inspection/Other			40.0				40,000
<b>TOTAL:</b>			<b>1,000.0</b>				<b>\$ 1,000,000</b>
Source of Funds							
Revenue Bond			1,000.0				1,000,000
<b>TOTAL:</b>			<b>1,000.0</b>				<b>\$ 1,000,000</b>

**OPERATIONAL IMPACT:**

This project will improve service life of Mary Rhodes Pipeline Phase 1 and accordingly reduce future operational and maintenance costs.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

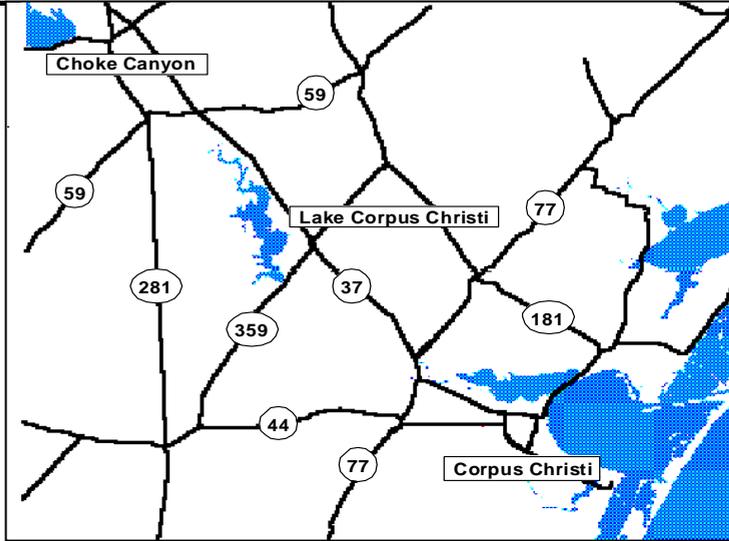
Sequence #04

**PROJECT TITLE: Mary Rhodes Pipeline Office Building**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

The Mary Rhodes Pipeline Phase 1 project was complete in 1998 and provided about 40% water supply to the City. Maintenance staff has used the Woodsboro Booster Pump Station as office and maintenance facility. This project provides funding support to purchase and install an office building for maintenance staff of Mary Rhodes Pipeline.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E14055  
 A/E Consultant: N/A  
 Award Design: N/A  
 Contractor: TBD  
 Award Construction: N/A  
 Anticipated Completion: N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Construction Contingency Inspection/Other			300.0				300,000
<b>TOTAL:</b>			<b>300.0</b>				<b>\$ 300,000</b>
<b>Source of Funds</b>							
Revenue Bond			300.0				300,000
<b>TOTAL:</b>			<b>300.0</b>				<b>\$ 300,000</b>

**OPERATIONAL IMPACT:**

This project will have nominal operational budget impact and will support the city's primary pipeline.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

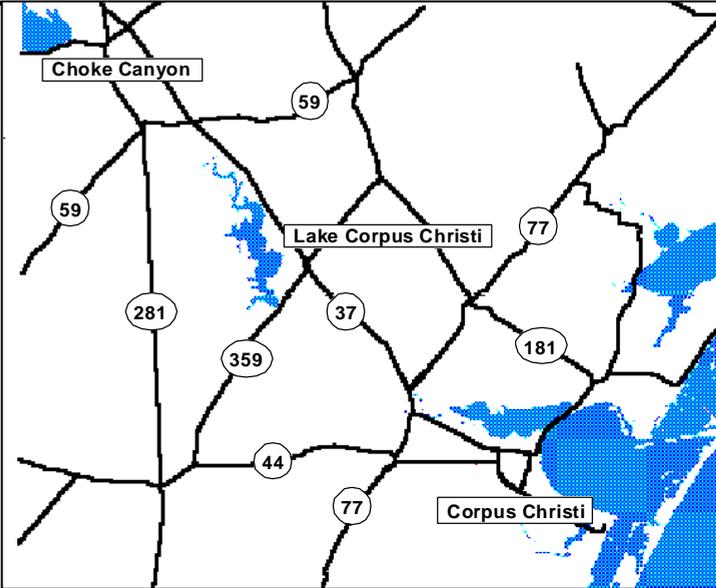
Sequence #05

**PROJECT TITLE: Choke Canyon Dam Spillway Gate Rehabilitation**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Choke Canyon Dam is located in South Texas on the Frio River, four miles west of Three Rivers, Texas, and approximately 90 miles northwest of the City of Corpus Christi. The primary purpose of the reservoir is municipal and industrial water supply and it also provides recreational and environmental benefits. The dam is comprised of a zoned earthen embankment, a reinforced concrete spillway with seven spillway gates and an outlet works structure near the center of the dam. The construction of the dam and the spillway, occurred between 1976 and 1982. The United States Bureau of Reclamation, who built and continues to inspect the dam, has noted in several inspections, that the spillway gate coating system is in need of rehabilitation. This project will rehabilitate the spillway gates, including such items as recoating, wire rope replacement, seal replacement, guide shoe refurbishment and stop log slot resurfacing.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E14043  
 A/E Consultant: Freese & Nichols, Inc.  
 Award Design: Sept 2014  
 Contractor: Blastco  
 Award Construction: Aug 2015  
 Anticipated Completion: Oct 2017

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	539.5						539,500
Construction	2,743.9	900.0					3,643,900
Contingency		90.0					90,000
Inspection/Other	177.8	73.7					251,500
<b>TOTAL:</b>	<b>3,461.2</b>	<b>1,063.7</b>					<b>\$ 4,524,900</b>
<b>Source of Funds</b>							
Choke Canyon Trust Fund	3,461.2	1,063.7					4,524,900
<b>TOTAL:</b>	<b>3,461.2</b>	<b>1,063.7</b>					<b>\$ 4,524,900</b>

**OPERATIONAL IMPACT:**

This project will increase the service life of the structure and prevent future corrosion and subsequent section loss and connection deterioration.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

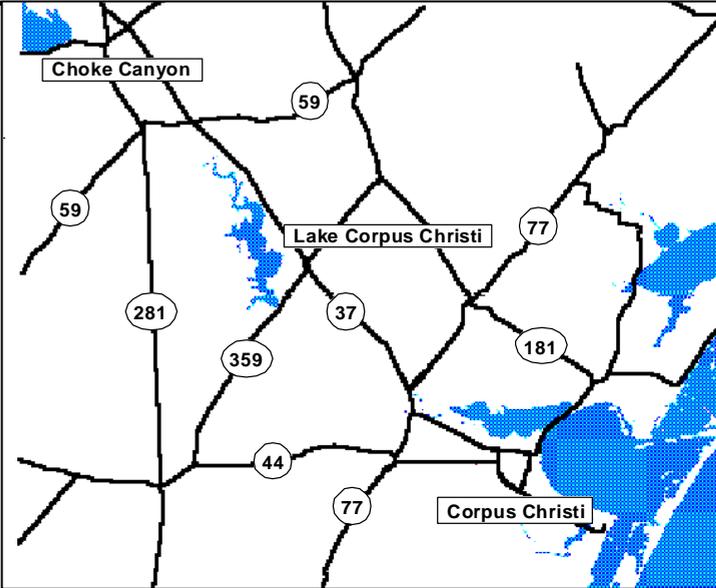
Sequence #06

**PROJECT TITLE: Choke Canyon Dam Infrastructure Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Choke Canyon Dam is located in South Texas on the Frio River, four miles west of Three Rivers, Texas, and approximately 90 miles northwest of the City of Corpus Christi. The primary purpose of the reservoir is municipal and industrial water supply and it also provides recreational and environmental benefits. This project provides for repairs and improvements identified by the City and Bureau of Reclamation including, but not limited to, crane repairs, soil erosion control, electrical system repairs, spillway operator motor brake realignment, instrumentation repairs, etc.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E13050  
 A/E Consultant: Freese & Nichols, Inc.  
 Award Design: Nov 2017  
 Contractor: TBD  
 Award Construction: Nov 2018  
 Anticipated Completion: Feb 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		400.0	450.0				850,000
Construction		800.0		1,600.0	750.0		3,150,000
Contingency		80.0		160.0	60.0		300,000
Inspection/Other	3.1	216.8	50.0	240.0	190.0		699,900
<b>TOTAL:</b>	3.1	1,496.8	500.0	2,000.0	1,000.0		<b>\$ 4,999,900</b>
Source of Funds							
Choke Canyon Trust Fund	3.1	1,496.8	500.0	2,000.0	1,000.0		4,999,900
<b>TOTAL:</b>	3.1	1,496.8	500.0	2,000.0	1,000.0		<b>\$ 4,999,900</b>

**OPERATIONAL IMPACT:**

This project will ensure normal operation and increase service life of the structure.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

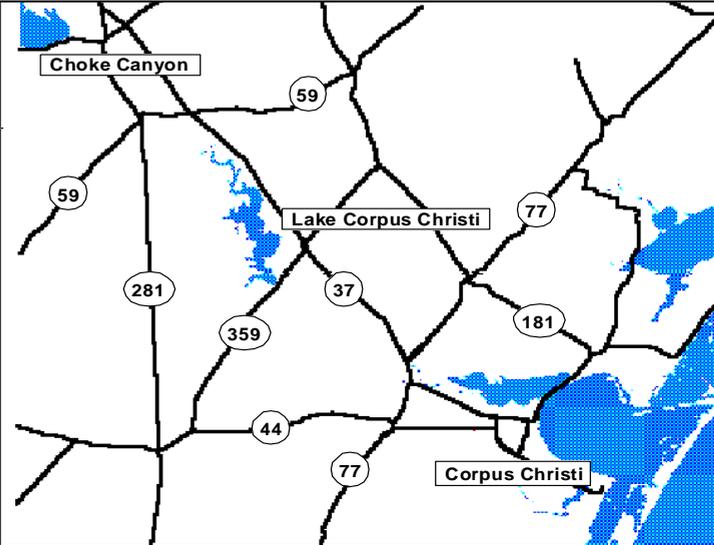
Sequence #07

**PROJECT TITLE: Wesley Seale Dam Infrastructure Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

This project provides for improvements to the original instrumentation system including annual safety inspection, integration with O.N. Stevens WTP process controls, the Howell-Bunger Valve, the downstream sluice gates, and the dewatering system, in response to previous inspection and priority investment recommendations into the system. This project will protect the integrity of the Wesley Seale Dam system (1957), to provide for proper inspection and updated regulatory reports per TCEQ.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Finance Project No: 180548  
 Engineering Project No: 8663  
 A/E Consultant: Freese & Nichols, Inc.  
 Award Design: Aug 2016  
 Contractor: TBD  
 Award Construction: Mar 2018  
 Anticipated Completion: Nov 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	496.1						496,100
Construction			1,700.0	600.0			2,300,000
Contingency			170.0	200.0			370,000
Inspection/Other	5.7	348.6	130.0	200.0			684,300
<b>TOTAL:</b>	501.8	348.6	2,000.0	1,000.0			\$ 3,850,400
<b>Source of Funds</b>							
Revenue Bond	501.8	348.6	2,000.0	1,000.0			3,850,400
<b>TOTAL:</b>	501.8	348.6	2,000.0	1,000.0			\$ 3,850,400

**OPERATIONAL IMPACT:**

This project will ensure the City can provide reservoir supplies to its customers and other downstream rights-holders and will secure the structural integrity of the dam through established dam safety protocols following regulatory mandates from TCEQ regarding high-hazard dams.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

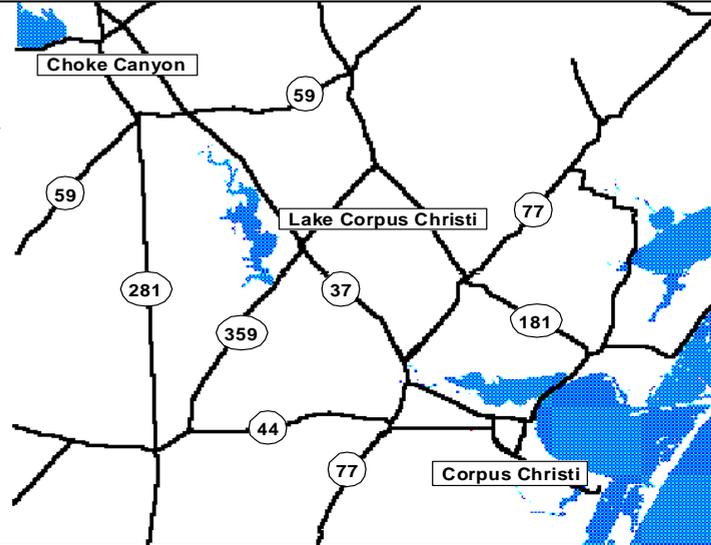
Sequence #08

**PROJECT TITLE: Wesley Seale Dam Spillway Gates Rehabilitation**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

The Wesley Seale Dam has 60 crest gates located in two separate spillways: the south spillway includes 27 gates and the north spillway includes 33 gates. Over the years, leakage from the side seals has increased and it has become significant at several of the gates. Water flow from excessive leakage damages the concrete and encourages algae and other vegetative growth and leads to corrosion issues on the gates, metal appurtenances and reinforcing steel. This project provides for necessary improvements including seal replacement, miscellaneous structural repairs and application of a protective coating system for the Dam.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: TBD  
 A/E Consultant: TBD  
 Award Design: TBD  
 Contractor: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				600.0			600,000
Construction					1,500.0	17,000.0	18,500,000
Contingency					150.0	1,700.0	1,850,000
Inspection/Other				400.0	150.0	1,300.0	1,850,000
<b>TOTAL:</b>				1,000.0	1,800.0	20,000.0	<b>\$ 22,800,000</b>
Source of Funds							
Revenue Bond				1,000.0	1,800.0	20,000.0	22,800,000
<b>TOTAL:</b>				1,000.0	1,800.0	20,000.0	<b>\$ 22,800,000</b>

**OPERATIONAL IMPACT:**

This project will increase the service life of the structure and prevent future corrosion and subsequent section loss and connection deterioration.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

Sequence #09

**PROJECT TITLE: Seawater Desalination**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

To provide the City with reliability, security, sustainability and availability of seawater as possible future water source, this project provides preliminary design of seawater desalination plant. The scope of this project includes governmental funds application, plant site selection, desalination technology design, water infrastructure integration plan, source water characterization, project cost analysis, etc.



**PROJECT NOTES:**

**RAW WATER SUPPLY**

Project No: E15117  
 A/E Consultant: Freese & Nichols, Inc.  
 Award Design: TBD  
 Contractor: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Construction Contingency Inspection/Other			1,000.0	1,000.0	1,000.0		3,000,000
<b>TOTAL:</b>			<b>1,000.0</b>	1,000.0	1,000.0		<b>\$ 3,000,000</b>

Source of Funds							
Water Operational Funds Raw Water Supply Fund Bureau of Reclamation Grant							
<b>TOTAL:</b>			<b>1,000.0</b>	1,000.0	1,000.0		<b>3,000,000.0</b>

**OPERATIONAL IMPACT:**

This program will provide the City with sufficient increased water production capacity to support additional industries, growth, and demand. In addition, Corpus Christi will be the Gulf Coast leader in desalination. Maintenance and operational costs will increase but corresponding revenues will also increase with the additional water consumption.

**PROJECT DESCRIPTION**

Department: WATER SUPPLY

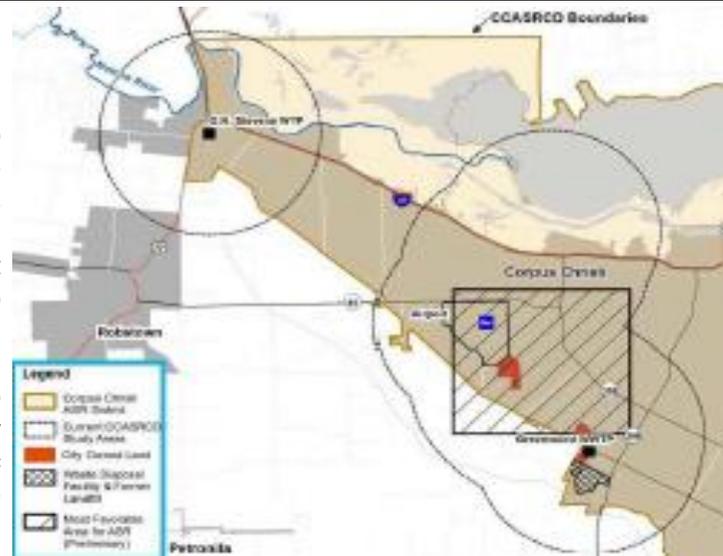
Sequence #10

**PROJECT TITLE: Corpus Christi Aquifer Storage and Recovery (ASR) Feasibility Study**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

Aquifer storage and recovery (ASR) is a long-term water supply strategy to effectively integrate the City's regional water supply system to achieve long-range water planning goals. The scope of investigation and analysis for this ASR feasibility study includes the following work elements: Conduct an exploratory test drilling program (up to 3 exploratory boreholes) to collect hydrogeological and geochemical parameters that can be used to characterize a potential ASR system at selected sites; Perform geochemical analysis to determine compatibility of treated, source water for storing within the native aquifer setting; Develop a field scale groundwater model to simulate storage and recovery operations; Evaluate ASR operating policy considerations; and prepare and submit a technical report and electronic presentation to the Texas Water Development Board summarizing the findings of District feasibility study.



**PROJECT NOTES:**

**WATER SUPPLY**

Project No: E16265  
 A/E Consultant: HDR  
**TEST WELL:**  
 Award Design: July 2016  
 Contractor: Felder Water  
 Award Construction: FY 2017  
 Anticipated Completion: Aug 2019

**FUNDING SCHEDULE (Amount in 000's)**

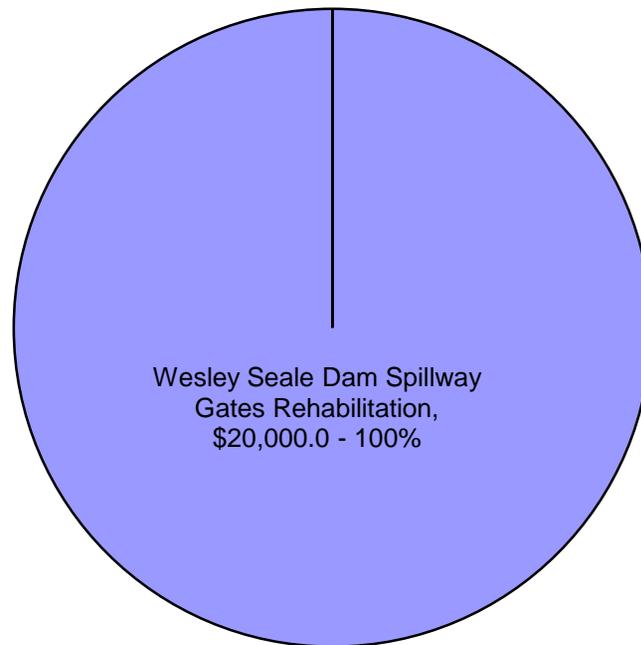
Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	349.8						349,800
Construction		1,000.0					1,000,000
Contingency		50.0					50,000
Inspection/Other	257.5	123.6	500.0				881,100
<b>TOTAL:</b>	607.3	1,173.6	500.0				<b>\$ 2,280,900</b>

Source of Funds							
Water Operating Budget	330.4						330,400
Tx Water Development Board	276.9						276,900
Raw Water Trust Fund		1,173.6	500.0				1,673,600
<b>TOTAL:</b>	607.3	1,173.6	500.0				<b>\$ 2,280,900</b>

**OPERATIONAL IMPACT:**

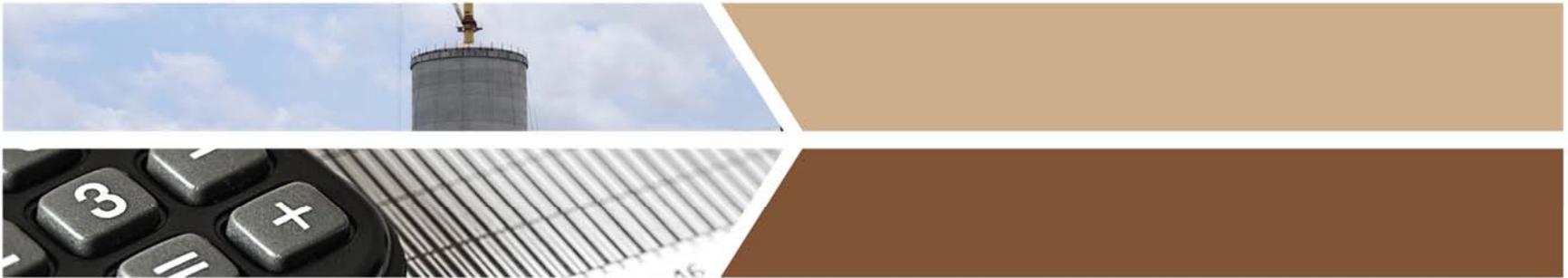
This project will ensure the City follows recommendations of the United States Bureau of Reclamation regarding proactive rehabilitation of critical dam components rather than reactive emergency repair for a reduced cost of operation and predictable system performance.

**Water Supply**  
**Long-Range CIP: \$20,000.0**  
**(Amounts in 000's)**



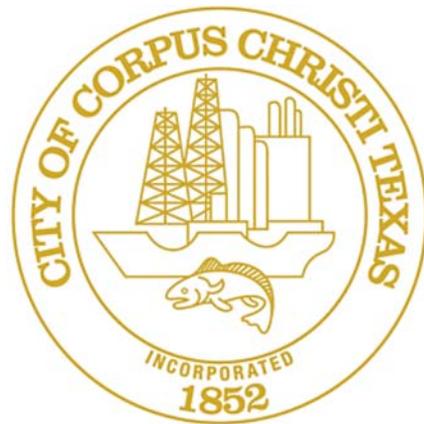
**WATER SUPPLY  
LONG-RANGE CIP**

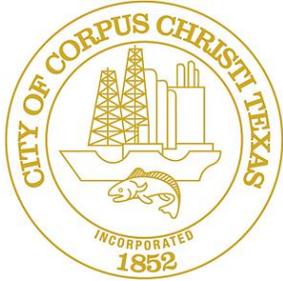
		<u>Long-Range Year</u>
1	<p><u>Wesley Seale Dam Spillway Gates Rehabilitation (continuation)</u> <span style="float: right;"><u>\$20,000,000</u></span></p> <p>The Wesley Seale Dam has 60 crest gates located in two separate spillways: the south spillway includes 27 gates and the north spillway includes 33 gates. Over the years, leakage from side seals has increased and it has become significant at several of the gates. Flow from excessive leakage damages the concrete and encourages algae and other vegetative growth and leads to corrosion issues on the gates, metal appurtenances and reinforcing steel. This project provides for necessary improvements, including seal replacement, miscellaneous structural repairs and application of a protective coating system for the Dam.</p>	4, 5, 6, 7, 8
	<p><b>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</b> <span style="float: right;"><b>\$20,000,000</b></span></p>	



# WATER

Obligation to the Future





# CITY OF CORPUS CHRISTI WATER PROGRAM

The City's Fiscal Year 2017 – 2018 Water Capital Improvement Program (CIP) contains twenty-four (24) projects with a total value of \$40.9 million which represent a significant investment of resources to enable delivery of a reliable source of potable water to residents, while balancing the long-term needs of the City and the region. Through periodic updates of the City-Wide Water Distribution Master Plan, local and area needs are modeled and the information is used in the development of a capital program that is responsive to population growth, rehabilitation/replacement of aging infrastructure, and meeting regulatory requirements while remaining attentive to funding limitations. This year's Water CIP includes projects relating to Water Treatment, Network and Distribution, Infrastructure Improvements, and Water Supply.

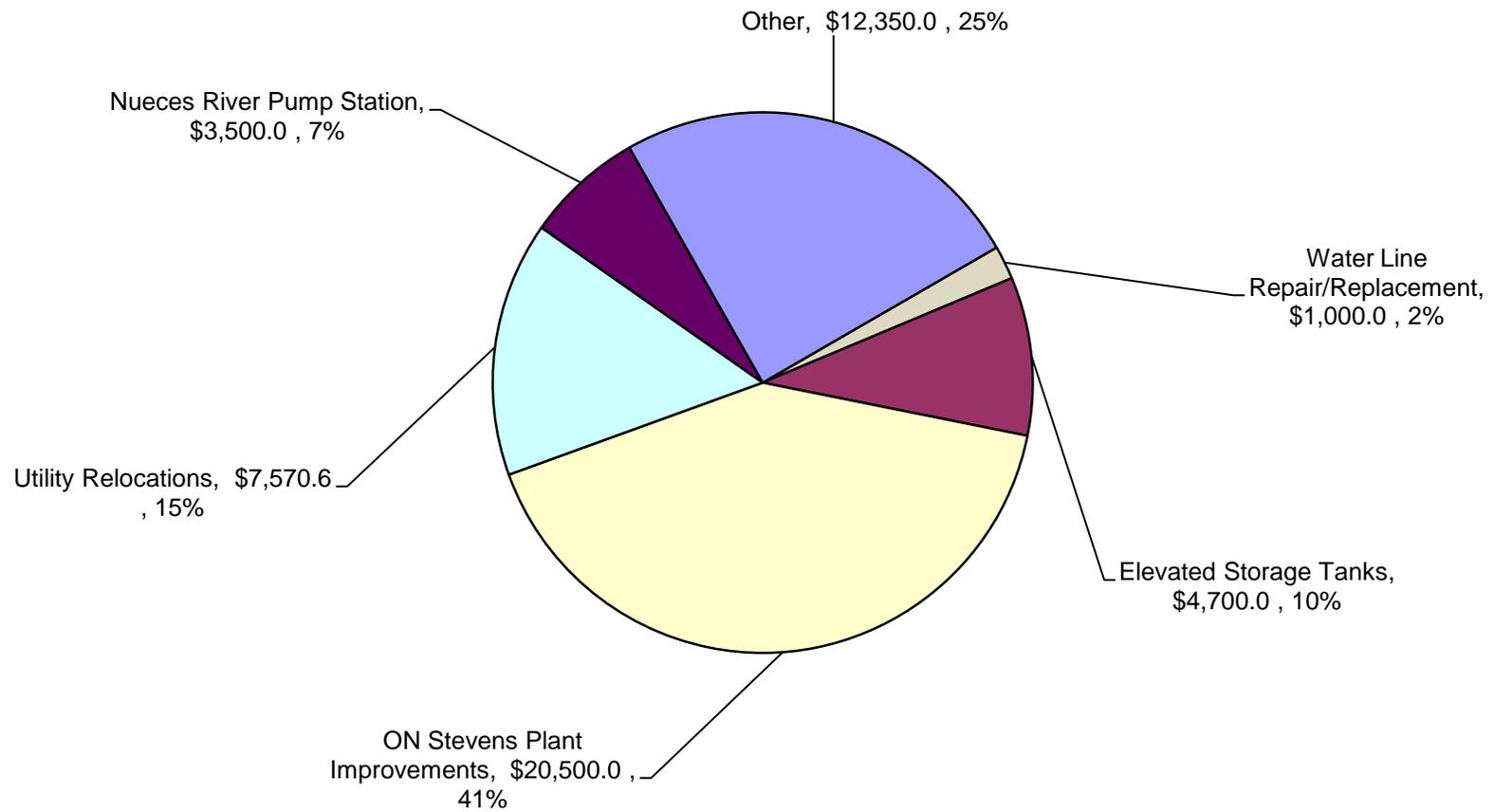
An important aspect of operating a public water system is protecting the integrity of the City's Water Treatment Plant. The O.N. Stevens Water Treatment Plant (ONSWTP) was originally constructed in 1954 and has a rated capacity of producing up to 167 million gallons a day (MGD). On average, the plant produces 80 million gallons of water a day. This year's program addresses essential improvements to the plant's chemical feed processes, infrastructure, storage, high service buildings, and treatment and distribution systems. The City's goal of exceeding Texas Commission on Environmental Quality (TCEQ) requirements is a priority for the Water CIP program and will be achieved through both short and long range projects.

In addition to the planned water projects, the Water Capital Improvement Program Budget includes over \$10.5 M in work to support city and Texas Department of Transportation (TxDOT) street projects that require upgrading or moving water transmission lines. These projects include streets listed in the 2012 and 2014 General Obligation Bond Elections and moving water lines in anticipation of the new Harbor Bridge construction project.

A recap of the budgeted expenditures includes:

	<b>YEAR ONE 2017-2018</b>	<b>YEAR TWO 2018-2019</b>	<b>YEAR THREE 2019-2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 49,620,600</b>	<b>\$ 57,688,300</b>	<b>\$ 52,845,500</b>
<b>FUNDING:</b>			
New Debt (Revenue Bonds):	<b>\$ 48,944,200</b>	<b>\$ 57,688,300</b>	<b>\$ 52,845,500</b>
Pay As You Go (Cash):	<b>\$ 676,400</b>	<b>\$ 0</b>	<b>\$ 0</b>
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 49,620,600</b>	<b>\$ 57,688,300</b>	<b>\$ 52,845,500</b>

**Water**  
**Annual CIP: \$49,620.6**  
**(Amounts in 000's)**



**WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WA 01	<b>Nueces River Raw Water Pump Station</b> Finance and Engineering Number: E11068	3,083.8	5,330.9	<b>500.0</b>	4,000.0	1,000.0	<b>5,500.0</b>
WA 02	<b>Nueces River Raw Water Pump Station Transmission Main</b> Finance and Engineering Number: TBD			<b>3,000.0</b>	2,000.0		<b>5,000.0</b>
WA 03	<b>ONSWTP High Service Building No. 3</b> Finance and Engineering Number: E11066	7,746.3		<b>10,000.0</b>	9,500.0	2,000.0	<b>21,500.0</b>
WA 04	<b>ONSWTP Fluoride Feed System Improvements</b> Finance and Engineering Number: E15233	1,074.0		<b>250.0</b>			<b>250.0</b>
WA 05	<b>ONSWTP Raw Water Influent and Chemical Facilities Improvements</b> Finance and Engineering Number: 180415/E12211/E17047	2,911.6	1,348.6	<b>1,500.0</b>	12,000.0	14,000.0	<b>27,500.0</b>
WA 06	<b>ONSWTP Maintenance Building Relocation</b> Finance and Engineering Number: TBD			<b>2,400.0</b>			<b>2,400.0</b>
WA 07	<b>ONSWTP Intermediate Sludge Removal Phase 1</b> Finance and Engineering Number: E13052/E16246	4,453.5	220.4	<b>5,000.0</b>			<b>5,000.0</b>

**WATER**  
**SHORT-RANGE CIP**  
(Amounts in 000's)

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WA 08	<b>ONSWTP Solids Handling and Disposal Facilities</b> Finance and Engineering Number: 180195	15.7	600.0	<b>500.0</b>	5,000.0	6,500.0	<b>12,000.0</b>
WA 09	<b>ONSWTP Site Infrastructure Improvements</b> Finance and Engineering Number: E13051	88.1	413.2	<b>250.0</b>	1,000.0		<b>1,250.0</b>
WA 10	<b>ONSWTP Replacement of Sedimentation Basin Sludge Collectors</b> Finance and Engineering Number: TBD			<b>600.0</b>	2,500.0	1,900.0	<b>5,000.0</b>
WA 11	<b>ONSWTP Chlorine Storage and Handling Facilities Improvements</b> Finance and Engineering Number: E10144	54.3	1,171.3		4,500.0	4,500.0	<b>9,000.0</b>
WA 12	<b>ONSWTP Electrical Distribution Improvements</b> Finance and Engineering Number: TBD				1,000.0	2,500.0	<b>3,500.0</b>
WA 13	<b>ONSWTP Clearwell No. 3</b> Finance and Engineering Number: TBD				1,000.0	2,000.0	<b>3,000.0</b>
WA 14	<b>Citywide Water Distribution System Indefinite Delivery/Indefinite Quantity (IDIQ) Program</b> Finance and Engineering Number: 180198/E16259/E16294	9,553.7	2,900.4	<b>6,000.0</b>	6,000.0	6,000.0	<b>18,000.0</b>

**WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WA 15	<b>Elevated Water Storage Tanks - Citywide (ACR Implementation Plan, Phase 2)</b> Finance and Engineering Number: E11012	6,265.2	2,461.5	<b>4,500.0</b>			<b>4,500.0</b>
WA 16	<b>Elevated Water Storage Tanks - Citywide (ACR Implementation Plan, Phase 3)</b> Finance and Engineering Number: E16290	692.6		<b>200.0</b>	3,000.0	7,000.0	<b>10,200.0</b>
WA 17	<b>Staples Street Pump Station Improvements</b> Finance and Engineering Number: E12004	2,562.5		<b>550.0</b>			<b>550.0</b>
WA 18	<b>Padre Island Water and Gas Line Extension, Phase 3</b> Finance and Engineering Number: E16325	133.4	667.8	<b>1,100.0</b>			<b>1,100.0</b>
WA 19	<b>Water System Process Control Reliability Improvements</b> Finance and Engineering Number: E13031	5.9	994.1	<b>1,000.0</b>			<b>1,000.0</b>
WA 20	<b>Water Transmission Infrastructure Cathodic Protection Improvements</b> Finance and Engineering Number: E15093	134.2		<b>700.0</b>			<b>700.0</b>

**WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WA 21	<b>City Large-Size Water Line Assessment and Repairs</b> Finance and Engineering Number: TBD			<b>1,000.0</b>	500.0	2,500.0	<b>4,000.0</b>
WA 22	<b>Utility Building Expansion</b> Finance and Engineering Number: E15157	64.0	335.9		2,500.0	2,000.0	<b>4,500.0</b>
WA 23	<b>TxDOT Water Line Relocation HARBOR BRIDGE</b> Finance and Engineering Number: E15158	496.7		<b>3,000.0</b>			<b>3,000.0</b>
<b>Water Program Sub-Total:</b>		39,335.5	16,444.1	<b>42,050.0</b>	<b>54,500.0</b>	<b>51,900.0</b>	<b>148,450.0</b>
	<b>*Utility Relocation Costs for Bond 2008</b>	3.8	629.7				
	<b>*Utility Relocation Costs for Bond 2012</b>	2,582.3	496.1	<b>2,160.0</b>	<b>273.0</b>	<b>90.5</b>	<b>2,523.5</b>
	<b>*Utility Relocation Costs for Bond 2014</b>	3,202.4	2,156.8	<b>5,176.6</b>	<b>2,165.3</b>	<b>105.0</b>	<b>7,446.9</b>
	<b>*Utility Relocation Costs for Bond 2016</b>			<b>234.0</b>	<b>750.0</b>	<b>750.0</b>	<b>1,734.0</b>
	<b>Future Programmed Bond Utility Support</b>						
* relocation costs and funding reflected within Streets Program							
<b>TOTAL PROGRAMMED EXPENDITURES:</b>		<b>45,124.0</b>	<b>19,726.7</b>	<b>49,620.6</b>	<b>57,688.3</b>	<b>52,845.5</b>	<b>160,154.4</b>

**WATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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**CURRENTLY AVAILABLE FUNDING:**

	Existing Revenue Bond	35,570.3	16,826.3				
	Pay As You Go	9,553.7	2,900.4	676.4			
	<b>Total Currently Available:</b>	<b>45,124.0</b>	<b>19,726.7</b>	<b>676.4</b>			<b>676.4</b>

**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			48,944.2	57,688.3	52,845.5	159,478.0
	<b>TOTAL PROGRAMMED FUNDS:</b>			<b>49,620.6</b>	<b>57,688.3</b>	<b>52,845.5</b>	<b>160,154.4</b>

## PROJECT DESCRIPTION

Department: **WATER**

Sequence #01

### PROJECT TITLE: Nueces River Raw Water Pump Station

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project is to improve the pumping capacity and reliability of the Nueces River Raw Water Pump Station (NRRWPS). The pump station transfers raw water from the Nueces River to the O.N. Stevens Water Treatment Plant (ONSWTP). The existing station consists of two pump buildings. Pump Building No. 1 was constructed in 1954 with four vertical turbine pumps, only two of these pumps are in service now. Pump Building No. 2 was constructed in 1981 and contains four dry pit centrifugal pumps. The current pumping capacity is 140.5 MGD with all operable pumps pumping and the firm yield is 103.0 MGD. The maximum water demand treated at the ONSWTP has been 111.7 MGD and the pump station has been unable to meet peak demands. The major elements of this project is to refurbish Pump Building No. 1 and No. 2, construct a new electrical control room and a new backup generator and provide a new pump in Pump Building No. 1.



**PROJECT NOTES:**

**TREATMENT**

Project No: E11068  
 A/E Consultant: Urban Engineering, Inc.  
 Contractor: TBD  
 Award Design: Sept 2014  
 Award Construction: May 2018  
 Anticipated Completion: Aug 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	2,911.8						2,911,800
Construction		4,500.0		3,500.0	800.0		8,800,000
Contingency		450.0		300.0	100.0		850,000
Inspection/Other	172.0	380.9	500.0	200.0	100.0		1,352,900
<b>TOTAL:</b>	<b>3,083.8</b>	<b>5,330.9</b>	<b>500.0</b>	<b>4,000.0</b>	<b>1,000.0</b>		<b>\$ 13,914,700</b>
<b>Source of Funds</b>							
Revenue Bond	3,083.8	5,330.9	500.0	4,000.0	1,000.0		13,914,700
<b>TOTAL:</b>	<b>3,083.8</b>	<b>5,330.9</b>	<b>500.0</b>	<b>4,000.0</b>	<b>1,000.0</b>		<b>\$ 13,914,700</b>

**OPERATIONAL IMPACT:**

This project provides for uninterrupted water supply from Nueces River. The need for reliable, redundant sources of raw water will be met and the City can confidently welcome new businesses. Should this project not be realized and the ONSWTP is faced with peak water demands, the City could face water shortages and a less than favorable public image. Operational budget impact should be improved through more efficient equipment.

## PROJECT DESCRIPTION

Department: WATER

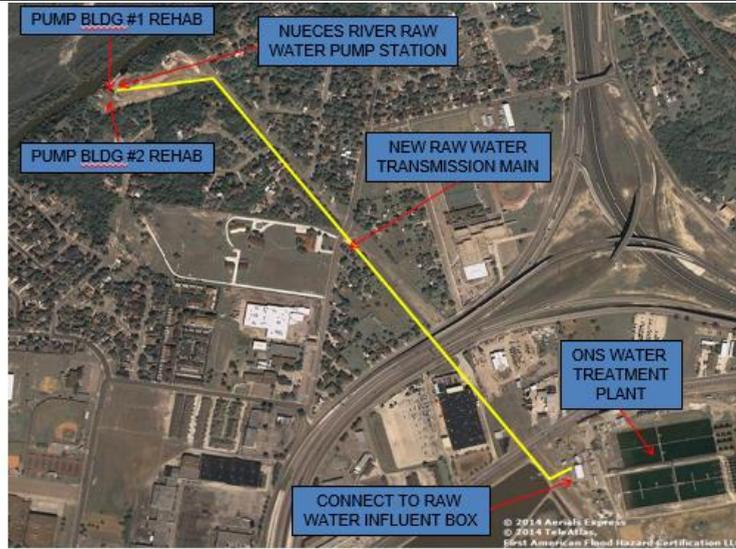
Sequence #02

### PROJECT TITLE: Nueces River Raw Water Pump Station Transmission Main

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project provides a redundant 54-inch water transmission main from Nueces River Pump Building to the O.N. Stevens Water Treatment Plant.



**PROJECT NOTES:**

**TREATMENT**

Project No: TBD  
 A/E Consultant: Urban Engineering, Inc.  
 Contractor: TBD  
 Award Design: Sept 2014  
 Award Construction: Jan 2018  
 Anticipated Completion: Dec 2018

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering							
Construction			2,500.0	1,600.0			4,100,000
Contingency			250.0	160.0			410,000
Inspection/Other			250.0	240.0			490,000
<b>TOTAL:</b>			<b>3,000.0</b>	<b>2,000.0</b>			<b>\$ 5,000,000</b>
<b>Source of Funds</b>							
Revenue Bond			3,000.0	2,000.0			5,000,000
<b>TOTAL:</b>			<b>3,000.0</b>	<b>2,000.0</b>			<b>\$ 5,000,000</b>

**OPERATIONAL IMPACT:**

This project will provide water transmission redundancy and assure City water supply up to 160 MGD.

**PROJECT DESCRIPTION**

Department: **WATER**

Sequence #03

**PROJECT TITLE: ONSWTP High Service Building No. 3**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

This project will provide for construction of a new High Service Building as the repair/replacement of the existing High Service Building No. 1 and its equipment is not feasible or cost effective. This project will also replace the four (4) existing tilting disc check valves (TDCVs) and all existing Multilin Motor protection relays (MRP) at High Service Building No. 2 in order to provide consistency and facilitate maintenance between both High Service No. 2 and High Service No. 3 Pump Stations. The New High Service Building No. 3 will have the capability to deliver treated water to the distribution system from existing clear-well No. 1, clear-well No. 2 and future programmed clear-well No. 3. Completion of this project will enable the City to decommission and take out of service High Service Building No. 1. Construction is anticipated to complete in July 2019.



**PROJECT NOTES:**

<b>TREATMENT</b>	
Project No:	E11066
A/E Consultant:	LNV
Contractor:	PLW
Award Design:	Feb 2013
Award Construction:	Aug. 2016
Anticipated Completion:	Nov 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	2,870.6						2,870,600
Construction	4,229.3		9,000.0	8,500.0	1,500.0		23,229,300
Contingency			500.0	500.0	250.0		1,250,000
Inspection/Other	646.4		500.0	500.0	250.0		1,896,400
<b>TOTAL:</b>	7,746.3		10,000.0	9,500.0	2,000.0		\$ 29,246,300

Source of Funds							
Revenue Bond	7,746.3		10,000.0	9,500.0	2,000.0		29,246,300
<b>TOTAL:</b>	7,746.3		10,000.0	9,500.0	2,000.0		\$ 29,246,300

**OPERATIONAL IMPACT:**

Constructing a new High Service Building No. 3 will allow the plant to continue with uninterrupted treated water delivery and will have the ability to operate with the new elevated storage tanks that are planned, in compliance with the TCEQ's Alternative Capacity Requirement (ACR).

**PROJECT DESCRIPTION**

Department: WATER

Sequence #04

**PROJECT TITLE: ONSWTP Fluoride Feed System Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

The existing Fluoride feed system at ONSWTP consists of three outdoor double-walled polyethylene bulk storage tanks and two polyethylene day tanks and pumps. The fluoride feed system has experienced failures of the various feed system components. This project provides for replacement of existing equipment with two new bulk storage tanks, a new exterior day tank and new peristaltic pumps mounted on skids and a new steel pre-engineered building to house pump skids. Additional work will include rehabilitation of injection points for Clearwell No. 1 and Clearwell No. 2 and modernization of plant fluoride injection control and monitoring system to improve optimization and control of fluoride addition with flow-paced control. Design of this project was included in another contract.



**PROJECT NOTES:**

**TREATMENT**

Project No: E15233  
 A/E Consultant: LNV, Inc.  
 Contractor: J.S Haren  
 Award Design: Oct. 2015  
 Award Construction: Dec 2016  
 Anticipated Completion: Sept 2017

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering							
Construction	1,070.0		150.0				1,220,000
Contingency			50.0				50,000
Inspection/Other	4.0		50.0				54,000
<b>TOTAL:</b>	1,074.0		250.0				\$ 1,324,000
Source of Funds							
Revenue Bond	1,074.0		250.0				1,324,000
<b>TOTAL:</b>	1,074.0		250.0				\$ 1,324,000

**OPERATIONAL IMPACT:**

The identified fluoride feed system improvements will accommodate current feed efficiency goals and long-term capacity goals and should not affect operational budget.

**PROJECT DESCRIPTION**

Department: **WATER**

Sequence #05

**PROJECT TITLE: ONSWTP Raw Water Influent and Chemical Facilities Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The City initiated two separate CIP projects of ONSWTP Raw Water Influent Improvements and ONSWTP Chemical Feed Facilities Improvements to solve hydraulic constraints and optimize chemical feed systems at ONSWTP. To minimize impacts to operations and achieve cost efficiencies, construction of these two projects will be combined into one construction contract. The objectives of this combined project are:

- To eliminate all hydraulic constrictions in front end piping;
- To modernize chemical storage and chemical feed systems at the ONSWTP that optimizes dosage, reliability, monitoring and control of water treatment chemicals.

These improvements are also needed to meet requirements of TCEQ Rules and Regulations 30 TAC 290.42., and support future plans to increase water treatment capacity at ONSWTP. Combined construction is anticipated to complete early 2021.



**PROJECT NOTES:**

**TREATMENT**

Project No:	180415
Project No:	E12211
Project No:	E17047
A/E Consultant:	Freese Nichols/LNV
Contractor:	TBD
Award Design:	May 2008
Award Construction:	Jul 2018
Anticipated Completion:	Dec 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	2,740.4						2,740,400
Construction	24.5	1,000.0	1,000.0	10,000.0	12,000.0	3,000.0	27,024,500
Contingency		100.0		1,000.0	1,000.0	300.0	2,400,000
Inspection/Other	146.7	248.6	500.0	1,000.0	1,000.0	200.0	3,095,300
<b>TOTAL:</b>	2,911.6	1,348.6	1,500.0	12,000.0	14,000.0	3,500.0	\$ 35,260,200
Source of Funds							
Revenue Bond	2,911.6	1,348.6	1,500.0	12,000.0	14,000.0	3,500.0	35,260,200
<b>TOTAL:</b>	2,911.6	1,348.6	1,500.0	12,000.0	14,000.0	3,500.0	\$ 35,260,200

**OPERATIONAL IMPACT:**

This project will allow the Plant to meet upcoming demand as projected by the Texas Water Development Board, increase treatment capacity and improve treatment efficiency. Cost to treat the water should be reduced due to plant efficiencies.

**PROJECT DESCRIPTION**

Department: WATER

Sequence #06

**PROJECT TITLE: ONSWTP Maintenance Building**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The City initiated ONSWTP Raw Water Influent Improvements project to eliminate all hydraulic constrictions in front-end piping and increase water treatment capacity. The existing maintenance building blocks the headworks improvements at the plant. In addition, it cannot meet requirements of mechanical, instrumentation and electrical needs in operations and maintenance. A new ONSWTP Maintenance Building will include three work shops, offices, and workstations to accommodate approximately 20 ONSWTP staff. A shared overhead traveling bridge crane will be available for two shops to handle work items up to 5 tons.



**PROJECT NOTES:**

<b>TREATMENT</b>	
Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering			200.0				
Construction			2,000.0				2,000,000
Contingency			100.0				100,000
Inspection/Other			100.0				100,000
<b>TOTAL:</b>			<b>2,400.0</b>				<b>\$ 2,400,000</b>
<b>Source of Funds</b>							
Revenue Bond			2,400.0				2,400,000
<b>TOTAL:</b>			<b>2,400.0</b>				<b>\$ 2,400,000</b>

**OPERATIONAL IMPACT:**

This project will allow the Plant to meet upcoming demand as projected by the Texas Water Development Board, increase treatment capacity and improve treatment efficiency. Cost to treat the water should be reduced due to plant efficiencies.

**PROJECT DESCRIPTION**

Department: WATER

Sequence #07

**PROJECT TITLE: ONSWTP Intermediate Sludge Removal Phase 1**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

This project provides an interim solution to address an accumulation of water plant residuals (solids) in Lagoon 7 and North and South Lagoons. Implementation of this project will remove solids from North/South Lagoons by dredging and will dispose of solids either at the Cefe Valenzuela landfill or by land application.



**PROJECT NOTES:**

**TREATMENT**

Project No: E13052  
 Project No: E16246  
 A/E Consultant: LNV, Inc.  
 Contractor: TBD  
 Award Design: Sept 2014  
 Award Construction: Feb 2017  
 Anticipated Completion: Aug 2018

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	572.2						572,200
Construction	3,435.4		4,000.0				7,435,400
Contingency			400.0				400,000
Inspection/Other	445.9	220.4	600.0				1,266,300
<b>TOTAL:</b>	4,453.5	220.4	5,000.0				\$ 9,673,900
<b>Source of Funds</b>							
Revenue Bond	4,453.5	220.4	5,000.0				9,673,900
<b>TOTAL:</b>	4,453.5	220.4	5,000.0				\$ 9,673,900

**OPERATIONAL IMPACT:**

Procurement of interim sludge management design services until completion of new Solids Handling and Disposal Facilities.

**PROJECT DESCRIPTION**

Department: WATER

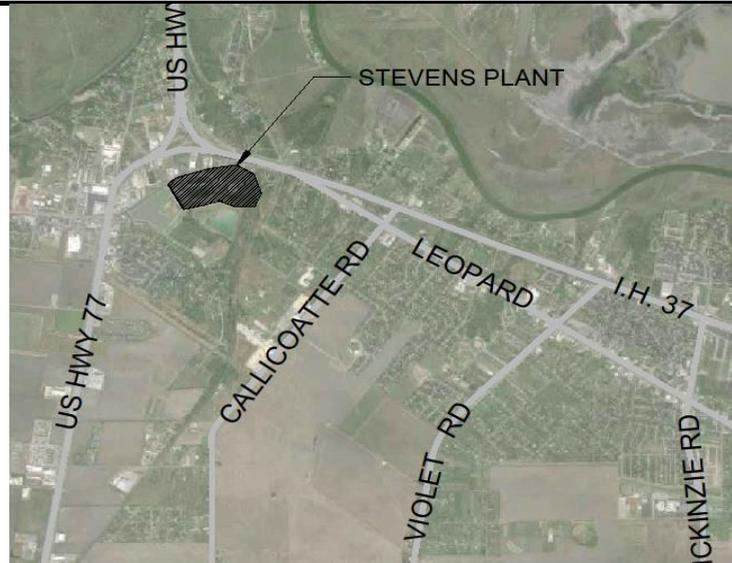
Sequence #08

**PROJECT TITLE: ONSWTP Solids Handling and Disposal Facilities**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project will consist of long term planning, design and construction activities associated with collection, handling and disposal of water treatment plant residuals (solids) generated at the O.N. Stevens Water Treatment Plant. Currently, solids are temporarily stored in lagoon 7, and north and south lagoons; when they are full, these solids are pumped to the Pollywog Ponds. The Pollywog Ponds are nearing capacity and new methods of solids handling and disposal need to be identified and implemented. This project will evaluate options for long term solids disposal, and allow for design and construction activities related to new sludge handling facilities.



**PROJECT NOTES:**

**TREATMENT**

Project No: 180195  
 A/E Consultant: LNV, Inc.  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		500.0	400.0				900,000
Construction				4,500.0	6,000.0		10,500,000
Contingency				250.0	250.0		500,000
Inspection/Other	15.7	100.0	100.0	250.0	250.0		715,700
<b>TOTAL:</b>	15.7	600.0	500.0	5,000.0	6,500.0		<b>\$ 12,615,700</b>

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Revenue Bond	15.7	600.0	500.0	5,000.0	6,500.0		12,615,700
<b>TOTAL:</b>	15.7	600.0	500.0	5,000.0	6,500.0		<b>\$ 12,615,700</b>

**OPERATIONAL IMPACT:**

This project will allow Plant to meet upcoming demand as projected by the Texas Water Development Board, increase treatment capacity and improve treatment efficiency. Cost to treat water should be reduced due to plant efficiencies.

**PROJECT DESCRIPTION**

Department: WATER

Sequence #09

**PROJECT TITLE: ONSWTP Site Infrastructure Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

This project will serve as a mechanism to execute major facility and site improvements, end-of-life equipment replacement, and unanticipated capital upgrades for ONSWTP. The improvements will include, but not limited to, filter-to-drain sluice gate replacement; filter-to-drain butterfly valves replacement; filter-to-waste butterfly valves replacement; facilities structural repairs; cable tray foundation repairs, FBI building relocation, and storm water drainage repair and improvements. This project also includes demolition of the old Atlee Cunningham Water Treatment Plant.



**PROJECT NOTES:**

**TREATMENT**

Project No: E13051  
 A/E Consultant: Freese Nichols, Inc.  
 Contractor: TBD  
 Award Design: Oct 2017  
 Award Construction: Sept 2018  
 Anticipated Completion: Aug 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	75.9	350.0					425,900
Construction		50.0	150.0	900.0			1,100,000
Contingency			50.0	50.0			100,000
Inspection/Other	12.2	13.2	50.0	50.0			125,400
<b>TOTAL:</b>	88.1	413.2	250.0	1,000.0			\$ 1,751,300
Source of Funds							
Revenue Bond	88.1	413.2	250.0	1,000.0			1,751,300
<b>TOTAL:</b>	88.1	413.2	250.0	1,000.0			\$ 1,751,300

**OPERATIONAL IMPACT:**

Reduces risk of unexpected equipment or facilities failure. Responsible, proactive replacement and upgrade instead of reactive emergency repair. Reduced cost of operation due to predictable system performance.

## PROJECT DESCRIPTION

Department: WATER

Sequence #10

### PROJECT TITLE: **ONSWTP Replacement of Sedimentation Basin Sludge Collectors**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The existing Trac-Vac solids collector system at ONSWTP Plant 1 primary sedimentation basins is obsolete and has exceeded its useful design life. The existing system is reported with a constant maintenance problem for plant operations and often fails due to lost suction or hanging up in the solids blanket. As a result, it is inefficient and ineffective at removing solids from the basins and the accumulation of solids impacts the plants ability to reliably treat water. This project will conduct a preliminary design to determine alternatives and best option for replacing existing system, develop detailed design and construction documents and provide construction phase services.



**PROJECT NOTES:**

**TREATMENT**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			350.0				350,000
Construction				2,000.0	1,500.0		3,500,000
Contingency				200.0	150.0		350,000
Inspection/Other			250.0	300.0	250.0		800,000
<b>TOTAL:</b>			<b>600.0</b>	<b>2,500.0</b>	<b>1,900.0</b>		<b>\$ 5,000,000</b>
Source of Funds							
Revenue Bond			600.0	2,500.0	1,900.0		5,000,000
<b>TOTAL:</b>			<b>600.0</b>	<b>2,500.0</b>	<b>1,900.0</b>		<b>\$ 5,000,000</b>

**OPERATIONAL IMPACT:**

Reduces risk of unexpected equipment or facilities failure. Responsible, proactive replacement and upgrade instead of reactive emergency repair. Reduced cost of operation due to predictable system performance.

**PROJECT DESCRIPTION**

Department: WATER

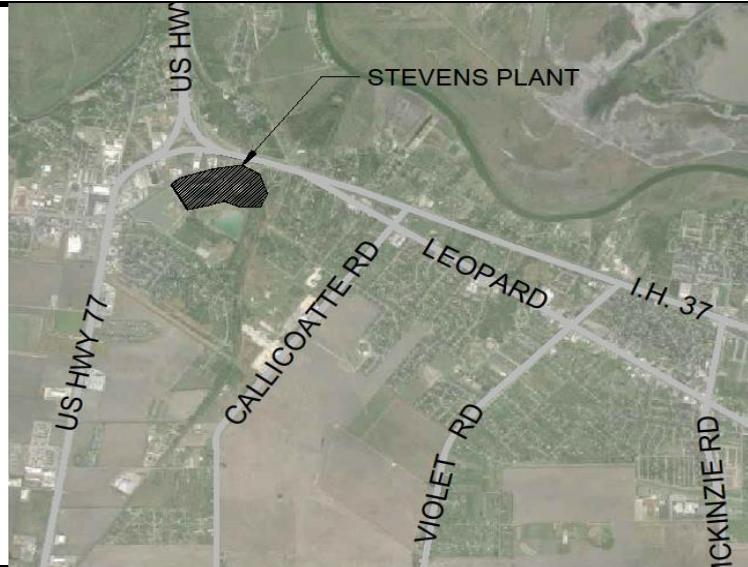
Sequence #11

**PROJECT TITLE: ONSWTP Chlorine Storage and Handling Facilities Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The ON Stevens Water Treatment Plant currently uses chlorine gas to form monochloramines, the primary disinfectant in water treatment. Up to 185 tons of liquid chlorine can be stored and handled on site in a combination of rail cars and one-ton cylinders. This project will provide necessary improvements to storage and handling infrastructure, including but not limited to: ventilation, storage vessel handling, leak detection, alarm system, emergency containment, and process measurement and control.



**PROJECT NOTES:**

**ADMINISTRATION**

Project No: E10144  
 A/E Consultant: Hazen Sawyer  
 Contractor: TBD  
 Award Design: Mar 2017  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		1,000.0					1,000,000
Construction				3,750.0	4,000.0		7,750,000
Contingency				350.0	400.0		750,000
Inspection/Other	54.3	171.3		400.0	100.0		725,600
<b>TOTAL:</b>	54.3	1,171.3		4,500.0	4,500.0		<b>\$ 10,225,600</b>
Source of Funds							
Revenue Bond	54.3	1,171.3		4,500.0	4,500.0		10,225,600
<b>TOTAL:</b>	54.3	1,171.3		4,500.0	4,500.0		<b>\$ 10,225,600</b>

**OPERATIONAL IMPACT:**

Proposed improvements will increase safety and containment, upgrade leak detection and leak mitigation facilities as well as process monitoring and control.

## PROJECT DESCRIPTION

Department: WATER

Sequence #12

### PROJECT TITLE: ONSWTP Electrical Distribution Improvements

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project will address ONSWTP plant-wide electrical upgrades. Existing electrical equipment is nearing the end of design life and needs to be replaced. The project will integrate all new and existing electrical power equipment into a monitoring network with diagnostic and remote management capability. Cable trays will be extended to allow maximum flexibility and redundancy in power delivery.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				350.0			350,000
Construction				500.0	2,000.0		2,500,000
Contingency				50.0	250.0		300,000
Inspection/Other				100.0	250.0		350,000
<b>TOTAL:</b>				1,000.0	2,500.0		<b>\$ 3,500,000</b>
<b>Source of Funds</b>							
Revenue Bond				1,000.0	2,500.0		3,500,000
<b>TOTAL:</b>				1,000.0	2,500.0		<b>\$ 3,500,000</b>

**OPERATIONAL IMPACT:**

This project will avoid plant shutdowns due to aged electrical equipment. Managed electrical system performance with early detection of potential causes of failure will be achieved. Power consumption monitoring for optimization to reduce operational cost.

## PROJECT DESCRIPTION

Department: WATER

Sequence #13

### PROJECT TITLE: ONSWTP Clearwell No. 3

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

Clearwell 1 at ONSWTP with 4 MG capacity was originally constructed in 1954 and has exceeded its design lifespan and has severe deterioration. In addition, with increased treatment capacity of ONSWTP, Clearwell 1 cannot meet TCEQ requirement of providing minimum Clearwell storage capacity. This project is to build a new Clearwell 3 at ONSWTP to meet requirements of treatment capacity and operations. The 10 MG Clearwell 2 at ONSWTP remains in good condition and is able to function as it was intended.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering				800.0	600.0		1,400,000
Construction					1,000.0	20,000.0	21,000,000
Contingency						2,000.0	2,000,000
Inspection/Other				200.0	400.0	2,000.0	2,600,000
<b>TOTAL:</b>				1,000.0	2,000.0	24,000.0	<b>\$ 27,000,000</b>
Source of Funds							
Revenue Bond				1,000.0	2,000.0	24,000.0	27,000,000
<b>TOTAL:</b>				1,000.0	2,000.0	24,000.0	<b>\$ 27,000,000</b>

**OPERATIONAL IMPACT:**

This project will ensure compliance with TCEQ requirements.

**PROJECT DESCRIPTION**

Department: WATER

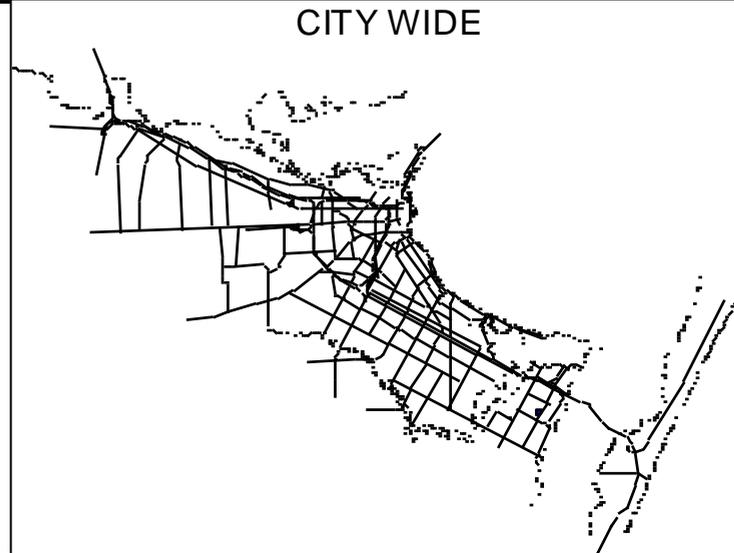
Sequence #14

**PROJECT TITLE: Citywide Water Distribution System Indefinite Delivery/Indefinite Quantity (IDIQ) Program**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project provides a strategic lifecycle program replacement and extension of the City's water distribution system (1,368 miles). The program is flexible and provides a systemic approach to extend service life of the system while enhancing monitoring capability and water quality. Additional benefits will include increased distribution reliability with reduced service outages, and reduced operational costs. A major priority of the lifecycle improvements will maximize CIP investments increasing capacity of the system and deferring unnecessary major upgrades to pump stations and plants. This program responds to the City's Street Preventative Maintenance Program (SPMP) and construction is in a manner of Indefinite Delivery/Indefinite Quantity (IDIQ) delivery orders. Some work will be completed using in-house forces to save on costs where applicable.



**PROJECT NOTES:**

**TREATMENT**

Project No: 180198 / E16259 / E16294  
 A/E Consultant: Urban Engineering  
 Contractor: In-House / Various  
 Award Design: On-Going  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	989.0		300.0	300.0	300.0	2,300.0	4,189,000
Construction	8,401.3	2,500.0	5,100.0	5,100.0	5,100.0	23,000.0	49,201,300
Contingency		200.0	400.0	400.0	400.0	1,500.0	2,900,000
Inspection/Other	163.4	200.4	200.0	200.0	200.0	1,200.0	2,163,800
<b>TOTAL:</b>	9,553.7	2,900.4	6,000.0	6,000.0	6,000.0	28,000.0	\$ 58,454,100

Source of Funds							
Revenue Bond			5,323.6	6,000.0	6,000.0	28,000.0	45,323,600
Pay As You Go	9,553.7	2,900.4	676.4				13,130,500
<b>TOTAL:</b>	9,553.7	2,900.4	6,000.0	6,000.0	6,000.0	28,000.0	\$ 58,454,100

**OPERATIONAL IMPACT:**

The extension of service life of water mains is critical to ensure integrity of the system. This project itself does not increase revenue or decrease expenses, but it prevents cost of maintenance from rising.

**PROJECT DESCRIPTION**

Department: WATER

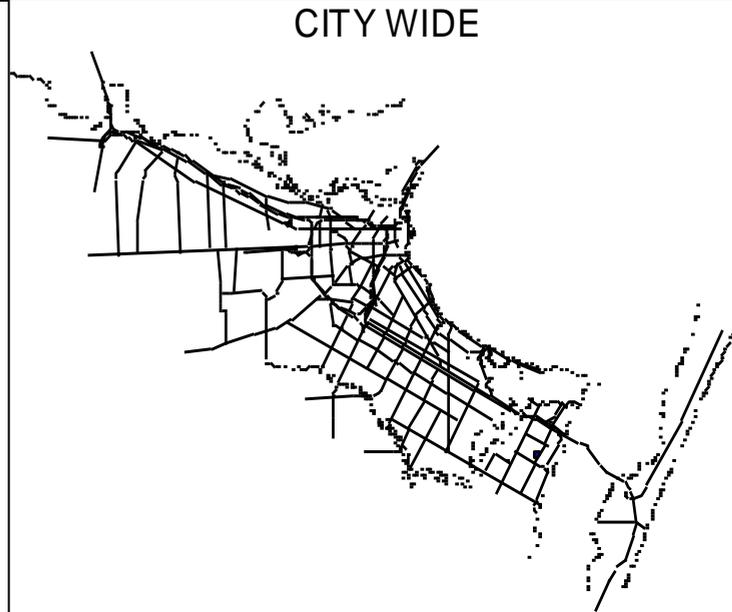
Sequence #15

**PROJECT TITLE: Elevated Water Storage Tanks - Citywide (ACR Implementation Plan, Phase 2)**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The existing Elevated Storage Tanks (EST) have inadequate volume and elevation to meet minimum storage requirement as defined by Texas Commission on Environmental Quality (TCEQ). In June 2012, TCEQ approved the City's Alternate Capacity Requirement (ACR) Implementation Plan to replace four existing elevated storage tanks (ESTs) at Pressure Zone 1 (including the O.N. Stevens Water Treatment Plant and three pump stations) with four new ESTs in four phases over a nine-year period. This Plan increases the combined capacity of elevated storage for Pressure Zone 1 from current 3.5 Million Gallon (MG) to 7.5 MG. This project is the second phase of ACR Implementation Plan to Construct two new EST's: 3.0 MG EST at Holly Road Pump Station and 0.75 MG EST at Rand Morgan Street. Construction of this project is scheduled to complete in April 2018.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No: E11012  
 A/E Consultant: LNV  
 Contractor: CBI, Inc.  
 Award Design: March 2011  
 Award Construction: May 2016  
 Anticipated Completion: Apr 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	60.0						60,000
Construction	5,439.8	2,000.0	4,000.0				11,439,800
Contingency		200.0					200,000
Inspection/Other	765.4	261.5	500.0				1,526,900
<b>TOTAL:</b>	6,265.2	2,461.5	4,500.0				<b>\$ 13,226,700</b>
<b>Source of Funds</b>							
Revenue Bond	6,265.2	2,461.5	4,500.0				13,226,700
<b>TOTAL:</b>	6,265.2	2,461.5	4,500.0				<b>\$ 13,226,700</b>

**OPERATIONAL IMPACT:**

This project will allow the city to meet its commitment to TCEQ as defined in the 9-year Alternative Capacity Requirement (ACR) implementation plan approved in 2012. Higher tanks will additionally provide higher pressure and better pressure stabilization in the distribution system as required. No additional costs will be incurred.

**PROJECT DESCRIPTION**

Department: **WATER**

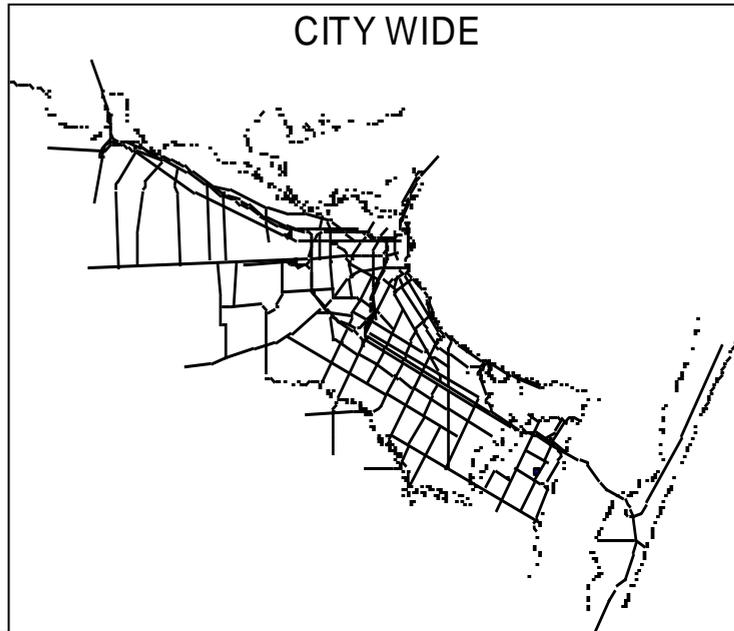
Sequence #16

**PROJECT TITLE: Elevated Water Storage Tanks - Citywide (ACR Implementation Plan, Phase 3)**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Existing Elevated Storage Tanks (EST) have inadequate volume and elevation to meet minimum storage requirement as defined by Texas Commission on Environmental Quality (TCEQ). In June 2012, TCEQ approved the City's Alternate Capacity Requirement (ACR) Implementation Plan to replace four existing elevated storage tanks (ESTs) at Pressure Zone 1 (including the O.N. Stevens Water Treatment Plant and three pump stations) with four new ESTs in four phases over a nine-year period. This Plan increases combined capacity of elevated storage for Pressure Zone 1 from current 3.5 Million Gallon (MG) to 7.5 MG. In 2016, TCEQ approved combining Phase 3 & 4 into a single project to reduce cost and accelerate the ACR Implementation plan. This project is the third phase of ACR Implementation Plan to Construct two new EST's: a 2.5 MG EST at Starry Road and a 1.25 MG EST at Nueces Bay Blvd at undetermined site. Included is demolishing existing four ESTs. City is working on land acquisition and determination for these two ESTs. Construction of these two ESTs is scheduled to complete by 2021.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No: E16290  
 A/E Consultant: LNV  
 Contractor: TBD  
 Award Design: Apr 2017  
 Award Construction: Aug 2019  
 Anticipated Completion: Aug 2021

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	690.0						690,000
Construction				2,500.0	6,000.0	6,000.0	14,500,000
Contingency				250.0	600.0	600.0	1,450,000
Inspection/Other	2.6		200.0	250.0	400.0	400.0	1,252,600
<b>TOTAL:</b>	692.6		200.0	3,000.0	7,000.0	7,000.0	<b>\$ 17,892,600</b>

Source of Funds							
Revenue Bond	692.6		200.0	3,000.0	7,000.0	7,000.0	17,892,600
<b>TOTAL:</b>	692.6		200.0	3,000.0	7,000.0	7,000.0	<b>\$ 17,892,600</b>

**OPERATIONAL IMPACT:**

This project will allow the city to meet its commitment to TCEQ as defined in the 9-year Alternative Capacity Requirement (ACR) implementation plan approved in 2012. Higher tanks will additionally provide higher pressure and better pressure stabilization in the distribution system as required. No additional costs will be incurred.

## PROJECT DESCRIPTION

Department: **WATER**

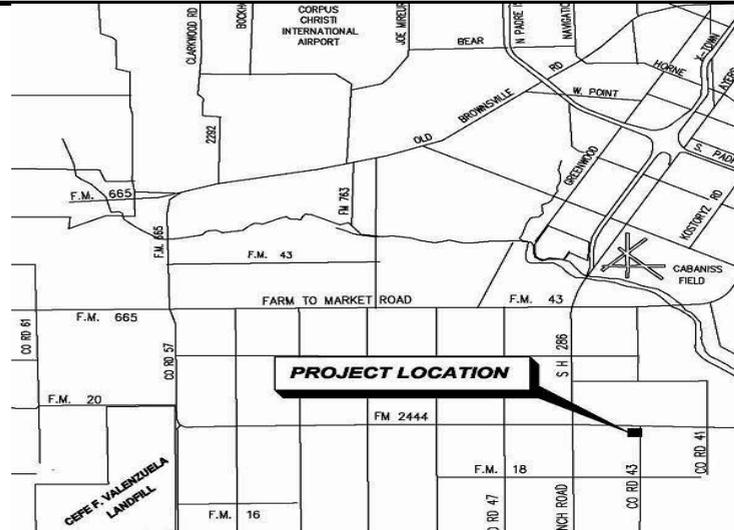
Sequence #17

### PROJECT TITLE: **Staples Street Pump Station Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The South Staples Booster Pump Station is equipped with two high service pumps that presently serve the South Side service area. Current operations indicate that additional pumps may be needed to maintain the minimum required pressure. An upgraded pumping system will enable the pump station to meet upcoming demand associated with planned decommissioning of the Holly Rd. Pump Station. The project will address pumping backup requirements during pump maintenance. Addition of Variable Speed Drives (VSDs) will improve pumps and provide more efficient energy use. Electrical upgrades are also required in order to meet the Alternative Capacity Requirement (ACR) as required by TCEQ. Control system upgrade will allow the pump station to operate automatically, unmanned.



**PROJECT NOTES:**

<b>DISTRIBUTION</b>	
Project No:	E12004
A/E Consultant:	Urban Engineering, Inc.
Contractor:	TBD
Award Design:	April 2012
Award Construction:	Dec 2016
Anticipated Completion:	Dec 2017

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	539.5						539,500
Construction	1,972.8		450.0				2,422,800
Contingency							
Inspection/Other	50.2		100.0				150,200
<b>TOTAL:</b>	2,562.5		550.0				<b>\$ 3,112,500</b>
<b>Source of Funds</b>							
Revenue Bond	2,562.5		550.0				3,112,500
<b>TOTAL:</b>	2,562.5		550.0				<b>\$ 3,112,500</b>

**OPERATIONAL IMPACT:**

Improved efficiencies should reduce operational costs.

## PROJECT DESCRIPTION

Department: WATER

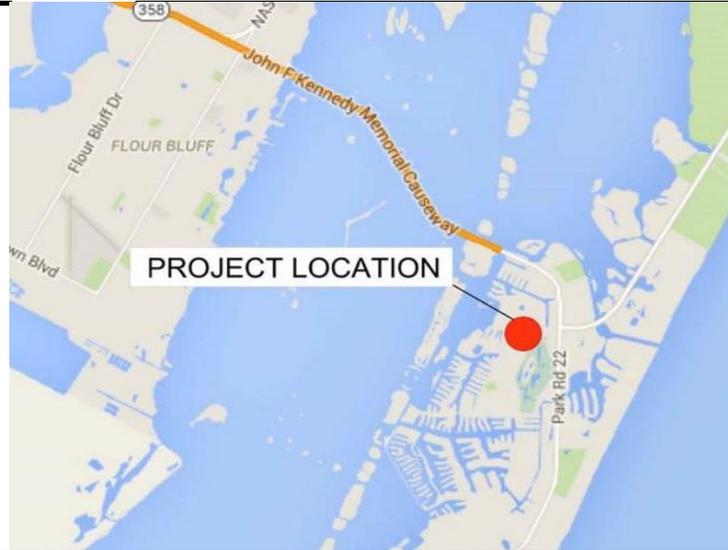
Sequence #18

### PROJECT TITLE: Padre Island Water and Gas Line Extension - Phase 3

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

This project provides for the final section to extend the 18-inch water transmission main, 8-inch gas pipeline and 4-inch MIS conduit on Padre Island from approximately Aquarius Street to Sand Dollar Pumping Station.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No: E16325  
 A/E Consultant: Urban Engineering  
 Contractor: TBD  
 Award Design: Aug 2016  
 Award Construction: Dec 2017  
 Anticipated Completion: Jul 2018

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	128.6						128,600
Construction		600.0	900.0				1,500,000
Contingency		60.0	90.0				150,000
Inspection/Other	4.8	7.8	110.0				122,600
<b>TOTAL:</b>	133.4	667.8	1,100.0				<b>\$ 1,901,200</b>
<b>Source of Funds</b>							
Revenue Bond	133.4	667.8	1,100.0				1,901,200
<b>TOTAL:</b>	133.4	667.8	1,100.0		-	-	<b>\$ 1,901,200</b>

**OPERATIONAL IMPACT:**

This project will provide utility redundancy to the Island and should be a nominal impact to operational budget.

## PROJECT DESCRIPTION

Department: WATER

Sequence #19

### PROJECT TITLE: Water System Process Control Reliability Improvements

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

Process automation systems, also known as Supervisory Control and Data Acquisition (SCADA) systems, allows a small team of operators to effectively run a large, complex Water system. It makes the operation of the Plant, or of the distribution system, more uniform and predictable. This project will address all aspects of system-wide process automation as outlined in the System Study performed in 2012. The elements include communication with remote sites, standardization of local automatic control hardware and software, improved diagnostic data gathering and remote troubleshooting, periodic reporting and instantly presenting meaningful process information to the right decision-makers at the right time.



**PROJECT NOTES:**

**TREATMENT**

Project No:	E13031
A/E Consultant:	LNV, Inc.
Contractor:	TBD
Award Design:	Aug 2016
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering		250.0					250,000
Construction		600.0	<b>850.0</b>				1,450,000
Contingency		60.0	<b>85.0</b>				145,000
Inspection/Other	5.9	84.1	<b>65.0</b>				155,000
<b>TOTAL:</b>	5.9	994.1	<b>1,000.0</b>				<b>\$ 2,000,000</b>
Source of Funds							
Revenue Bond	5.9	994.1	<b>1,000.0</b>				2,000,000
<b>TOTAL:</b>	5.9	994.1	<b>1,000.0</b>				<b>\$ 2,000,000</b>

**OPERATIONAL IMPACT:**

This project Improves reliability of communication between ONSWTP Control Room and remote sites. Increased degree of automation in process control will take advantage of industry practice of business intelligence available to support operations and management decision-making.

**PROJECT DESCRIPTION**

Department: WATER

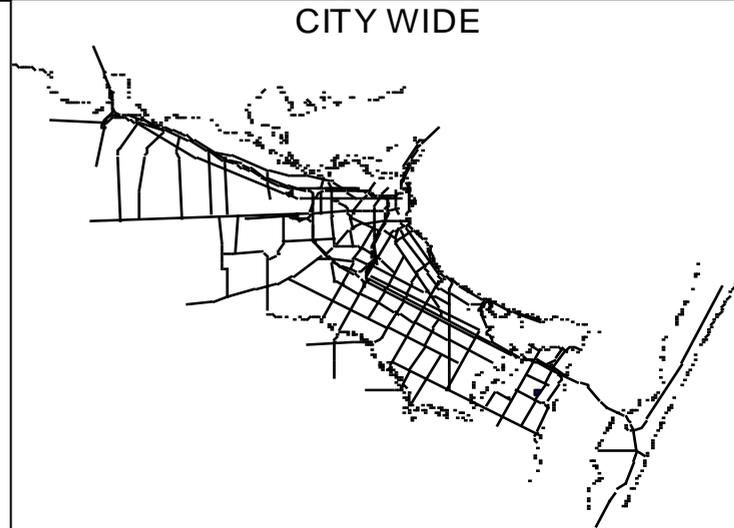
Sequence #20

**PROJECT TITLE: Water Transmission Infrastructure Cathodic Protection Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

Cathodic protection (CP) is an effective method protecting underground steel infrastructures from corrosion. CP systems require periodical inspection and evaluation to ensure their effectiveness. This project provides for design and construction of Water Distribution Transmission Infrastructure cathodic protection to protect and extend useful service life of major investment of transmission lines in Leopard Street and South Side Water Transmission from ON Stevens to Padre Island.



**PROJECT NOTES:**

**TREATMENT**

Project No: E15093  
 A/E Consultant: Russell Corrosion  
 Contractor: TBD  
 Award Design: May 2015  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	100.0						100,000
Construction			600.0				600,000
Contingency			60.0				60,000
Inspection/Other	34.2		40.0				74,200
<b>TOTAL:</b>	134.2		700.0				\$ 834,200
<b>Source of Funds</b>							
Revenue Bond	134.2		700.0				834,200
<b>TOTAL:</b>	134.2		700.0				\$ 834,200

**OPERATIONAL IMPACT:**

Cathodic protection design of water transmission infrastructure will extend useful service life of infrastructure asset.

**PROJECT DESCRIPTION**

Department: WATER

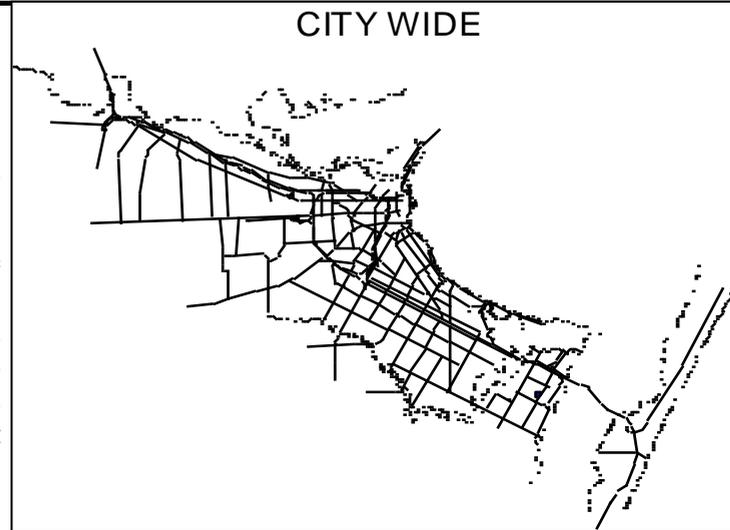
Sequence #21

**PROJECT TITLE: City Large-Size Water Line Assessment and Repairs**

*Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan*

**DESCRIPTION:**

A majority of the City's large diameter transmission lines have been in service many years and are made of non-plastic corrosive materials such as CIP, DIP, CSCP and steel. In some cases, these lines were installed with cathodic protection systems to help minimize corrosion and in some cases, they weren't. The purpose of this project is to ensure the reliable delivery of drinking water through the existing system for years to come by assessing the physical condition, both external and internal, of the transmission mains and their associated cathodic protection systems and determining the remaining useful life of each asset. In addition, the intent of the project is also to repair some of the most critical lines that either have a significant maintenance/repair history or where failure may be reasonably expected in the near future.



**PROJECT NOTES:**

**TREATMENT**

Project No: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering			100.0	400.0			500,000
Construction			800.0		2,000.0		2,800,000
Contingency			80.0		200.0		280,000
Inspection/Other			20.0	100.0	300.0		420,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>500.0</b>	<b>2,500.0</b>		<b>\$ 4,000,000</b>
<b>Source of Funds</b>							
Revenue Bond			1,000.0	500.0	2,500.0		4,000,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>500.0</b>	<b>2,500.0</b>		<b>\$ 4,000,000</b>

**OPERATIONAL IMPACT:**

This project will improve the service life and water quality of City's large water lines.

**PROJECT DESCRIPTION**

Department: WATER

Sequence #22

**PROJECT TITLE: Utility Building Expansion**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

The existing Utility Building at Holly Road cannot meet the City's progressive office and work area needs. The expansion and improvements of the existing Utility Building will provide more office and working areas for Utilities Department. This project includes architectural renovation and structural improvements to meet requirements of the latest building codes. A Design/Build Contractor will be solicited for delivery of this project.



**PROJECT NOTES:**

**ADMINISTRATION**

Project No: E15157  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design/Build: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering	47.4	250.0					297,400
Construction				2,000.0	1,600.0		3,600,000
Contingency				200.0	160.0		360,000
Inspection/Other	16.6	85.9		300.0	240.0		642,500
<b>TOTAL:</b>	<b>64.0</b>	<b>335.9</b>		<b>2,500.0</b>	<b>2,000.0</b>		<b>\$ 4,899,900</b>
<b>Source of Funds</b>							
Revenue Bond	64.0	335.9		2,500.0	2,000.0		4,899,900
<b>TOTAL:</b>	<b>64.0</b>	<b>335.9</b>		<b>2,500.0</b>	<b>2,000.0</b>		<b>\$ 4,899,900</b>

**OPERATIONAL IMPACT:**

The proposed expansion will improve operational capacity of Utilities Department.

**PROJECT DESCRIPTION**

Department: WATER

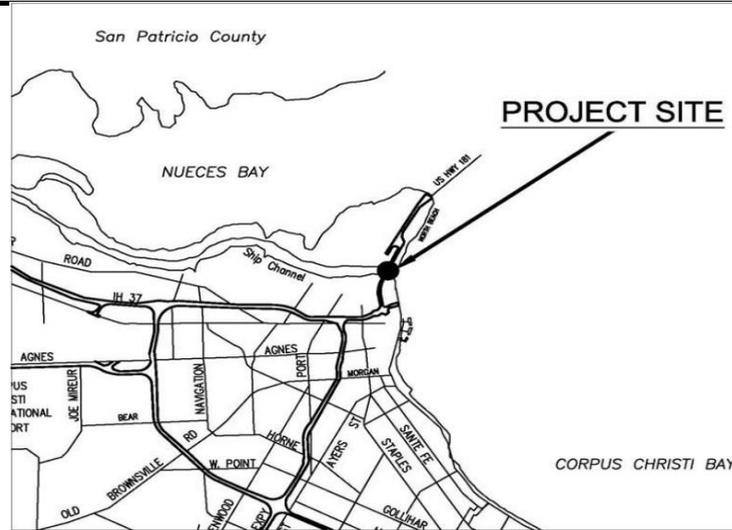
Sequence #23

**PROJECT TITLE: TxDOT Water Line Relocation HARBOR BRIDGE**

**Consistency with the Comprehensive Plan: Policy Statements pp. 48: 1,3 & 6; pp. 55-57; Water Master Plan**

**DESCRIPTION:**

This project is required to relocate the water line within Harbor Bridge easement to meet construction needs of Texas Department of Transportation's (TxDOT) new Harbor Bridge project. The City will be responsible for contributing towards the cost of the project and TxDOT will be responsible for construction.



**PROJECT NOTES:**

**DISTRIBUTION**

Project No: E15158  
 A/E Consultant: N/A  
 Contractor: N/A  
 Award Design: N/A  
 Award Construction: N/A  
 Anticipated Completion: N/A

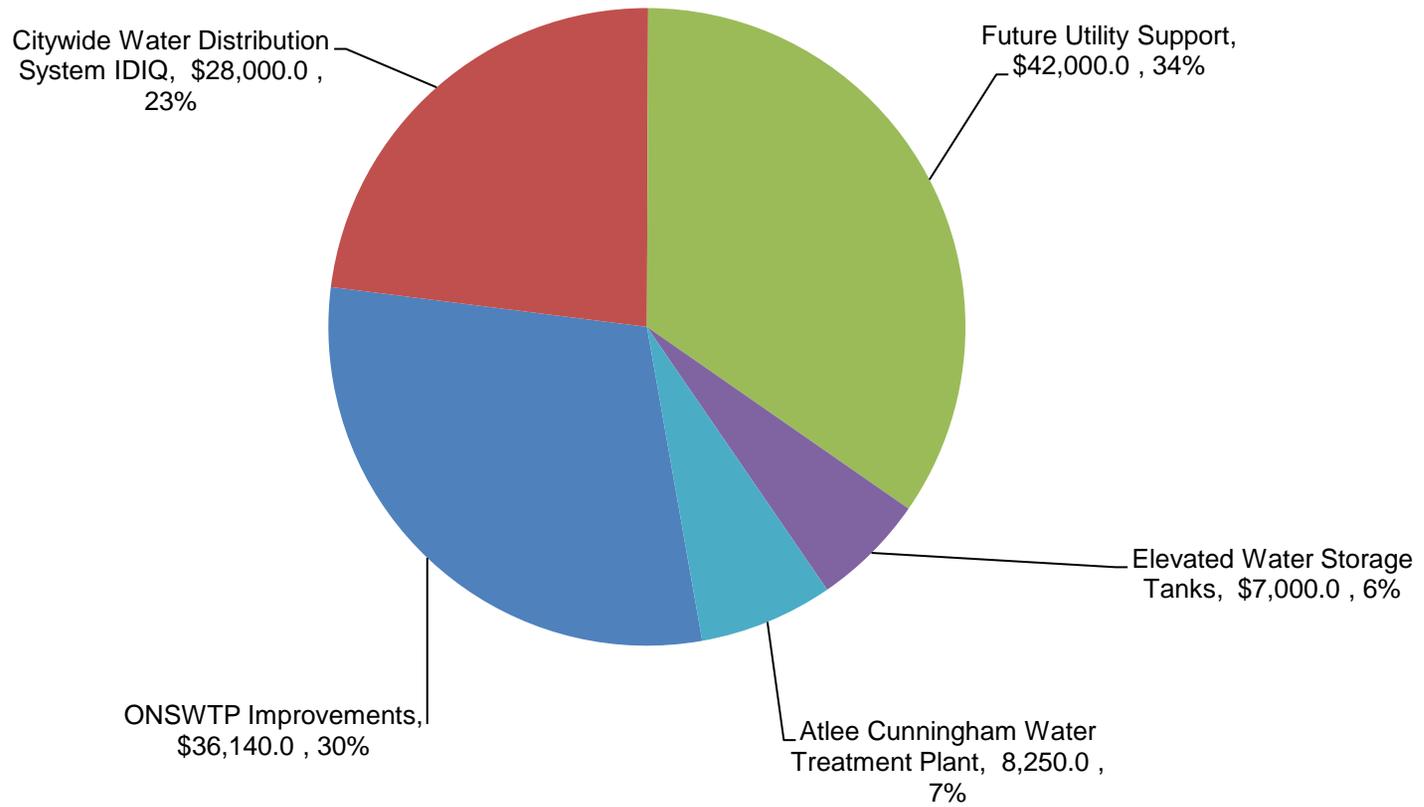
**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering							
Construction	480.0						480,000
Contingency							
Inspection/Other	16.7		3,000.0				3,016,700
<b>TOTAL:</b>	496.7		3,000.0				\$ 3,496,700
<b>Source of Funds</b>							
Revenue Bond	496.7		3,000.0				3,496,700
<b>TOTAL:</b>	496.7		3,000.0				\$ 3,496,700

**OPERATIONAL IMPACT:**

The operational impact of this project is negligible, but it is required to facilitate construction of the new Harbor Bridge.

**Water**  
**Long-Range CIP: \$121,390.0**  
**(Amounts in 000's)**

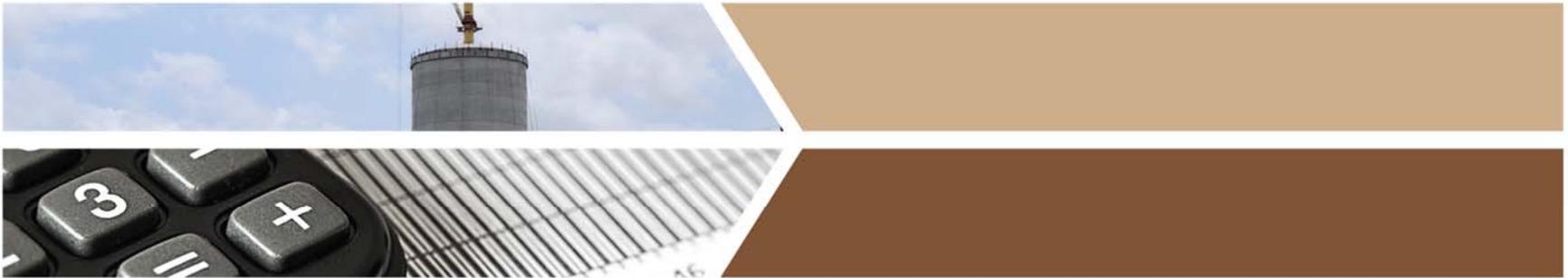


**WATER  
LONG-RANGE CIP**

		<u>Long-Range Year</u>
1	<p><u>ONSWTP Raw Water Influent and Chemical Facilities Improvements</u> <span style="float: right;">\$3,500,000</span></p> <p>The City initiated two separate CIP projects of ONSWTP Raw Water Influent Improvements and ONSWTP Chemical Feed Facilities Improvements to solve hydraulic constraints and optimize chemical feed systems at ONSWTP. To minimize impacts to operations and achieve cost efficiencies, construction of these two projects will be combined into one construction contract. The objectives of this combined project are: 1) To eliminate all hydraulic constrictions in front end piping and 2) To modernize chemical storage and chemical feed systems at the ONSWTP that optimizes dosage, reliability, monitoring and control of water treatment chemicals.</p> <p>These improvements are also needed to meet requirements of TCEQ Rules and Regulations 30 TAC 290.42., and support future plans to increase water treatment capacity at ONSWTP. Combined construction is anticipated to complete early 2021.</p>	4
2	<p><u>ONSWTP Clearwell No. 3</u> <span style="float: right;">\$24,000,000</span></p> <p>This project will provide for a new clearwell at the ON Stevens Water Treatment Plant when demand occurs.</p>	4, 5, 6
3	<p><u>Citywide Water Distribution System Indefinite Delivery/Indefinite Quantity (IDIQ) Program</u> <span style="float: right;">\$28,000,000</span></p> <p>This project provides a strategic lifecycle program replacement and extension of the City's water distribution system (1,368 miles). The program is flexible and provides a systemic approach to extend service life of the system while enhancing monitoring capability and water quality. Additional benefits will include increased distribution reliability with reduced service outages, and reduced operational costs. A major priority of the lifecycle improvements will maximize CIP investments increasing capacity of the system and deferring unnecessary major upgrades to pump stations and plants. This program responds to the City's Street Preventative Maintenance Program (SPMP) and construction is in a manner of Indefinite Delivery/Indefinite Quantity (IDIQ) delivery orders. Some work will be completed using in-house forces to save on costs where applicable.</p>	4, 5, 6, 7, 8, 9, 10
4	<p><u>Elevated Water Storage Tanks - Citywide (ACR Implementation Plan, Phase 3)</u> <span style="float: right;">\$7,000,000</span></p> <p>Existing Elevated Storage Tanks (EST) have inadequate volume and elevation to meet minimum storage requirement as defined by Texas Commission on Environmental Quality (TCEQ). In June 2012, TCEQ approved the City's Alternate Capacity Requirement (ACR) Implementation Plan to replace four existing elevated storage tanks (ESTs) at Pressure Zone 1 (including the O.N. Stevens Water Treatment Plant and three pump stations) with four new ESTs in four phases over a nine-year period. This Plan increases combined capacity of elevated storage for Pressure Zone 1 from current 3.5 Million Gallon (MG) to 7.5 MG. In 2016, TCEQ approved combining Phase 3 &amp; 4 into a single project to reduce cost and accelerate the ACR Implementation plan. This project is the third phase of ACR Implementation Plan to Construct two new EST's: a 2.5 MG EST at Starry Road and a 1.25 MG EST at Nueces Bay Blvd at undetermined site. Also included in this project is demolishing existing four ESTs. Currently the City is working on land acquisition and determination for these two ESTs. Construction of these two ESTs is scheduled to complete by 2021.</p>	4

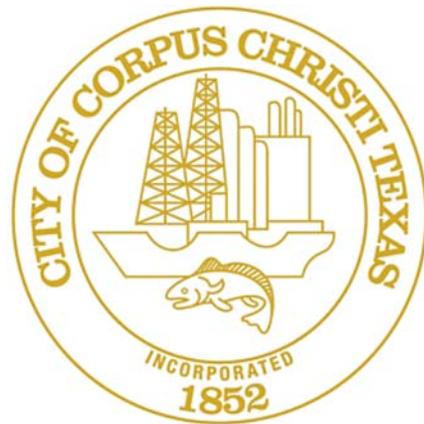
**WATER  
LONG-RANGE CIP**

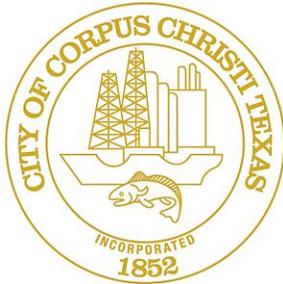
		<u>Long-Range Year</u>
5	<u>ONSWTP Alternate Power - Generator #4</u> This project will provide additional power source at water plant to keep up with power demand as plant operations continue to expand to increase water treatment capacity. This project will also provide a back-up power supply for operations at the plant.	8
6	<u>ONSWTP Construct Monofill on Site</u> This project accompanies the O.N. Stevens Solids Handling facilities and needs to be in place when the facility is completed. Additional costs will be incurred in later years, but are not shown here.	8,10
7	<u>ONSWTP Improvements to Presedimentation Basin</u> This project will provide improvements to increase sedimentation detention time through construction of baffle walls or other means to rectify short circuiting problem the plant is currently experiencing. Additional costs will be incurred in later years, but are not shown here.	8, 10
8	<u>Atlee Cunningham Water Treatment Plant</u> The O.N. Stevens Water Treatment Plant (ONSWTP) is the only water treatment facility for the City of Corpus Christi, the local oil refineries, and other large volume user. A redundant treatment facility is needed to ensure uninterrupted supply of treated water, should a failure occur at ONSWTP. The Atlee Cunningham WTP Phase 1 (20MGD) project will construct a new Membrane Technology 20 MGD WTP, with subsequent phases increasing treatment capacity to 80 MGD. Constructing on the City of Corpus Christi owned Atlee Cunningham WTP will also provide a location for Aquifer Storage and Recovery (ASR).	5, 6, 7, 8
9	<u>Water Utility Support to Street Bond Projects</u> This project will provide water utility support to future street bond issue projects.	4, 5, 6, 7, 8, 9, 10
<b><u>TOTAL FUTURE CAPITAL IMPROVEMENT NEEDS:</u></b>		<b><u>\$121,390,000</u></b>



# WASTEWATER

Obligation to the Future





# CITY OF CORPUS CHRISTI WASTEWATER PROGRAM

This year's Wastewater Capital Improvement Program represents a significant investment in the City's aging wastewater system. Planned improvements will allocate resources between the upgrading of treatment facilities, improved capacity of wastewater mains, the reduction of wastewater odors, and securing alternate power at critical facilities. Significant initiatives included in the Capital Improvement Program are focused on insuring compliance with state and federal regulatory requirements. The City of Corpus Christi's Wastewater Department is currently responsible for six wastewater treatment plants, 103 lift stations, approximately 1,243 miles of wastewater mains, and approximately 100 miles of force mains.

Over the next several years, the integrity of the City's Wastewater facilities will be secured through projects planned to provide additional capacity, emergency power, regulatory compliance and replacement of aging infrastructure. In a proactive approach, an evaluation of the wastewater lines in the existing collection systems has resulted in a replacement schedule of lines in the poorest condition and those creating the most severe maintenance issues. This program will replace lines on a yearly basis to the extent that funding allows increasing the effectiveness and efficiency of the wastewater collection system with the ultimate goal of minimizing system life-cycle operations and maintenance costs.

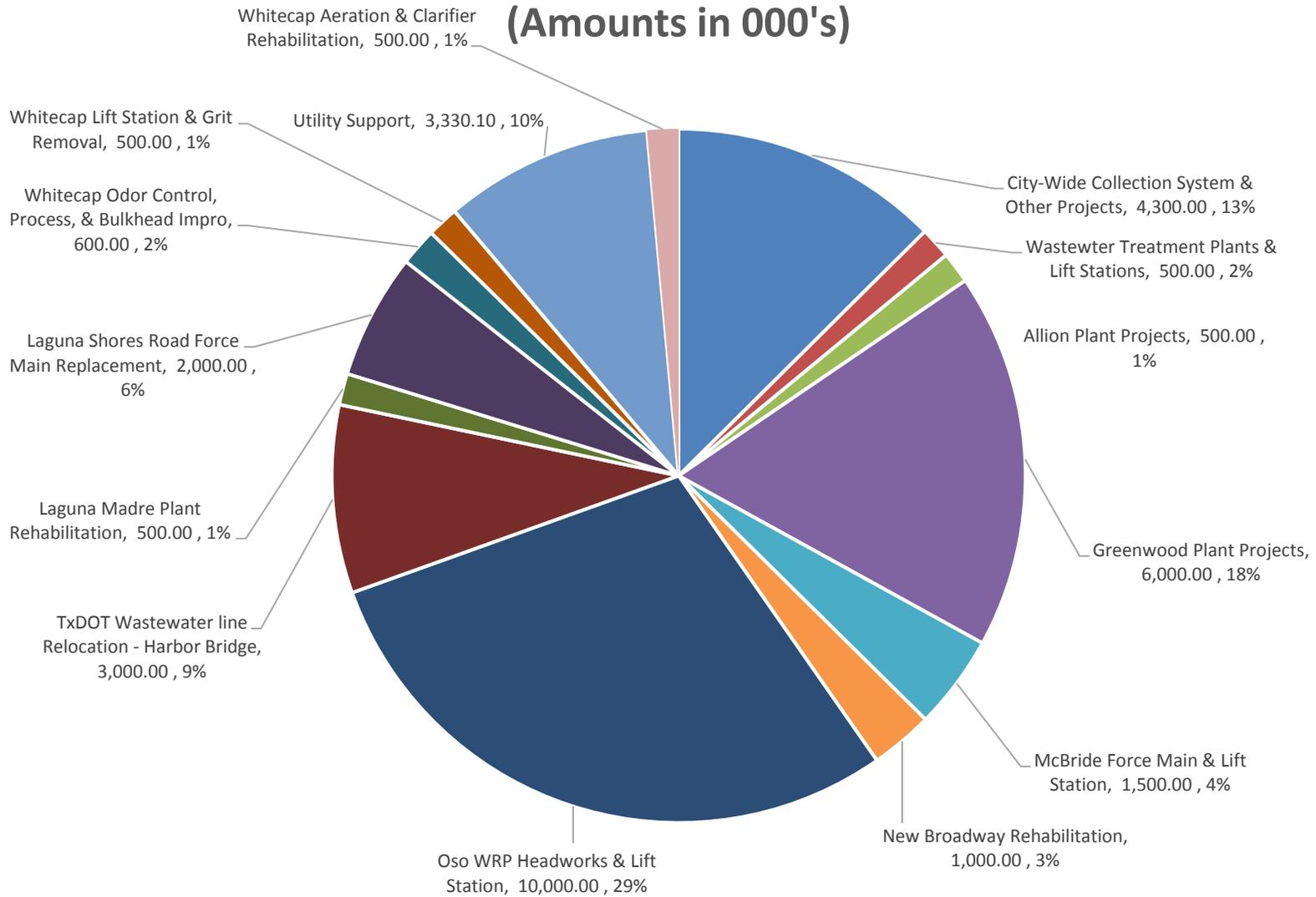
The proposed CIP projects will address the critical needs and upgrade/improvements at six City's treatment plants and collection system. A recap of the budgeted expenditures includes:

<b>EXPENDITURES:</b>	<b>YEAR ONE 2017-2018</b>	<b>YEAR TWO 2018-2019</b>	<b>YEAR THREE 2019-2020</b>
<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>\$ 34,230,100</b>	<b>\$ 51,853,100</b>	<b>\$ 66,672,600</b>
<b>FUNDING:</b>			
New Debt (Revenue Bonds):	<b>\$ 20,782,400</b>	\$ 51,853,100	\$ 66,672,600
Pay As You Go (Cash):	<b>\$ 13,447,700</b>	\$ 0	\$ 0
<b>TOTAL PROGRAMMED FUNDS:</b>	<b>\$ 34,230,100</b>	<b>\$ 51,853,100</b>	<b>\$ 66,672,600</b>

# Wastewater

## Annual CIP: \$34,230.1

(Amounts in 000's)



**WASTEWATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WW 01	<b>Citywide Collection System Indefinite Delivery/Indefinite Quantity Program</b> Finance and Engineering Number: E12161 / E14015 / E15089 / E15175 / E15209 / E16255 / E17029	20,691.7	6,276.1	<b>1,000.0</b>	13,000.0	16,000.0	<b>30,000.0</b>
WW 02	<b>Citywide Lift Station Repair</b> Finance and Engineering Number: E10142	1,509.4	1,351.0	<b>3,000.0</b>	3,000.0	3,000.0	<b>9,000.0</b>
WW 03	<b>Citywide Wastewater Lift Station Alternate Power Supply</b> Finance Number: 150785 Engineering Number: 7427	9.1		<b>300.0</b>	300.0	300.0	<b>900.0</b>
WW 04	<b>Citywide Wastewater Master Plan</b> Finance and Engineering Number: TBD					400.0	<b>400.0</b>
WW 05	<b>Wastewater Treatment Plants &amp; Lift Station SCADA Improvements</b> Finance and Engineering Number: TBD			<b>500.0</b>	500.0	3,000.0	<b>4,000.0</b>
WW 06	<b>Allison WWTP Lift Station and Plant Improvements</b> Finance and Engineering Number: E10043	293.6	4,250.4				
WW 07	<b>Allison Plant Process Upgrade and Replacement</b> Finance and Engineering Number: TBD			<b>500.0</b>	2,000.0	3,500.0	<b>6,000.0</b>
WW 08	<b>Sharpsburg Lift Station Upgrade and Up River Road Force Main Rehabilitation</b> Finance Number: 150265 Engineering Number: 7389	3,718.5	351.5				
WW 09	<b>Greenwood WWTP Flood Mitigation</b> Finance and Engineering Number: TBD			<b>500.0</b>	500.0	3,500.0	<b>4,500.0</b>

**WASTEWATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WW 10	<b>Greenwood WWTP Electrical Improvements to UV System</b> Finance and Engineering Number: E10180	69.1	1,210.9	<b>2,500.0</b>	2,500.0		<b>5,000.0</b>
WW 11	<b>Greenwood Headworks &amp; Grit Removal Rehab</b> Finance and Engineering Number: TBD			<b>500.0</b>	1,900.0	1,500.0	<b>3,900.0</b>
WW 12	<b>Greenwood Aeration Basin &amp; Clarifier Rehab</b> Finance and Engineering Number: TBD			<b>1,000.0</b>	1,000.0	4,000.0	<b>6,000.0</b>
WW 13	<b>Greenwood DAF Unit Rehab &amp; Odor Control</b> Finance and Engineering Number: TBD			<b>500.0</b>	500.0	3,500.0	<b>4,500.0</b>
WW 14	<b>Greenwood Digester Replacement &amp; Bio-Gas Upgrades</b> Finance and Engineering Number: TBD			<b>1,000.0</b>	1,000.0	5,000.0	<b>7,000.0</b>
WW 15	<b>Greenwood Flow Diversion to New Broadway WWTP</b> Finance and Engineering Number: TBD					1,000.0	<b>1,000.0</b>
WW 16	<b>McBride Force Main and Lift Station</b> Finance and Engineering Number: E14054	1,979.3	3,742.8	<b>1,500.0</b>			<b>1,500.0</b>
WW 17	<b>New Broadway WWTP Rehabilitation</b> Finance and Engineering Number: TBD			<b>1,000.0</b>	1,000.0	4,000.0	<b>6,000.0</b>
WW 18	<b>Old Broadway WWTP Decommissioning</b> Finance and Engineering Number: E12159	1,867.4	600.0		3,700.0	1,200.0	<b>4,900.0</b>

**WASTEWATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WW 19	<b>Broadway WWTP Effluent Line Rehabilitation</b> Finance and Engineering Number: E10003					2,500.0	<b>2,500.0</b>
WW 20	<b>Oso WRP Headworks and Lift Station</b> Finance and Engineering Number: E12206	10,247.9		<b>10,000.0</b>	12,000.0	6,000.0	<b>28,000.0</b>
WW 21	<b>Williams Lift Station Force Main (Line A)</b> Finance and Engineering Number: TBD					650.0	<b>650.0</b>
WW 22	<b>Williams/Wooldridge Lift Station Hydraulic Improvements</b> Finance and Engineering Number: TBD					400.0	<b>400.0</b>
WW 23	<b>TxDOT Wastewater Line Relocation - HARBOR BRIDGE</b> Finance and Engineering Number: E15158	595.5		<b>3,000.0</b>			<b>3,000.0</b>
WW 24	<b>Laguna Madre Plant Rehab</b> Finance and Engineering Number: TBD			<b>500.0</b>	500.0	2,100.0	<b>3,100.0</b>
WW 25	<b>Laguna Shores Road Force Main Replacement</b> Finance and Engineering Number: E10054	727.1	2,393.0	<b>2,000.0</b>	800.0		<b>2,800.0</b>
WW 26	<b>Whitecap Odor Control, Process &amp; Bulkhead Improvements</b> Finance and Engineering Number: E10053	49.4		<b>600.0</b>	3,000.0	2,000.0	<b>5,600.0</b>
WW 27	<b>Whitecap Lift Station &amp; Grit Removal Improvements</b> Finance and Engineering Number: TBD			<b>500.0</b>	500.0	1,500.0	<b>2,500.0</b>

**WASTEWATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
WW 28	<b>Whitecap Aeration &amp; Clarifier Rehab</b> Finance and Engineering Number: TBD			<b>500.0</b>	1,500.0	500.0	<b>2,500.0</b>
	<b>Wastewater Program Sub-Total:</b>	41,758.0	20,175.7	<b>30,900.0</b>	49,200.0	65,550.0	<b>145,650.0</b>

**WASTEWATER  
SHORT-RANGE CIP  
(Amounts in 000's)**

Seq #	Project Name	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Three Year Total
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	<b>*Utility Relocation Costs for Bond 2008</b>	<b>3.4</b>	<b>4,725.6</b>				
	<b>*Utility Relocation Costs for Bond 2012</b>	<b>1,502.8</b>	<b>1,749.2</b>	<b>742.2</b>	<b>1,530.9</b>	<b>459.6</b>	<b>2,732.7</b>
	<b>*Utility Relocation Costs for Bond 2014</b>	<b>1,557.3</b>	<b>1,207.4</b>	<b>2,362.9</b>	<b>497.2</b>	<b>38.0</b>	<b>2,898.1</b>
	<b>*Utility Relocation Costs for Bond 2016</b>			<b>225.0</b>	<b>625.0</b>	<b>625.0</b>	<b>1,475.0</b>
	<b>Future Programmed Bond Utility Support</b>						

*\* relocation costs and funding reflected within each specific Streets Program*

	<b>TOTAL PROGRAMMED EXPENDITURES:</b>	<b>44,821.5</b>	<b>27,857.9</b>	<b>34,230.1</b>	<b>51,853.1</b>	<b>66,672.6</b>	<b>152,755.8</b>
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**PROGRAM FUNDING SCHEDULE:**

**CURRENTLY AVAILABLE FUNDING:**

	Revenue Bond	<b>44,821.5</b>	<b>27,857.9</b>				
	Pay As You Go			<b>13,447.7</b>			<b>13,447.7</b>

	<b>Total Currently Available:</b>	<b>44,821.5</b>	<b>27,857.9</b>	<b>13,447.7</b>			<b>13,447.7</b>
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**RECOMMENDED ADDITIONAL FUNDING:**

	Revenue Bond			<b>20,782.4</b>	<b>51,853.1</b>	<b>66,672.6</b>	<b>139,308.1</b>
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	<b>TOTAL PROGRAMMED FUNDS:</b>	<b>44,821.5</b>	<b>27,857.9</b>	<b>34,230.1</b>	<b>51,853.1</b>	<b>66,672.6</b>	<b>152,755.8</b>
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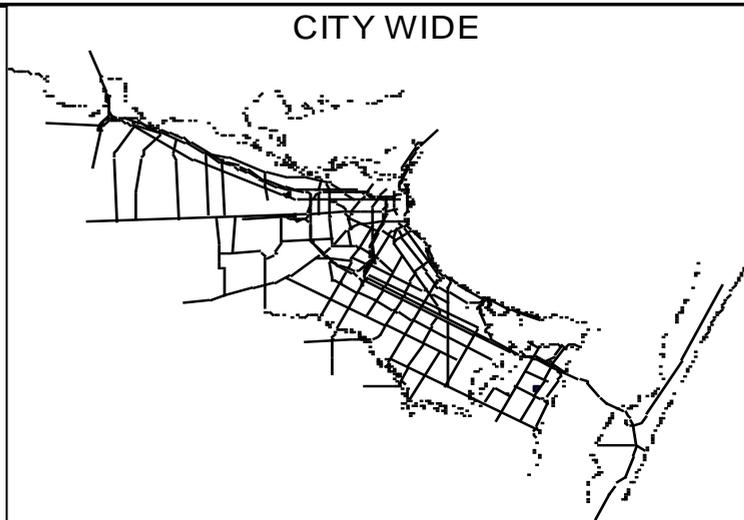
**PROJECT DESCRIPTION**

Department: **WASTEWATER** Sequence #01

**PROJECT TITLE: Citywide Collection System Indefinite Delivery/Indefinite Quantity Program**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**  
 The city-wide Indefinite Delivery / Indefinite Quantity program is a long-term initiative designed to reduce the number and volume of sanitary sewer overflows within the City. It is a key component of the life cycle program component to address collection system conveyance and manhole infrastructure requirements within the City. The program will identify, prioritize and implement specific capital improvement projects in a phased design and construction approach to extend the service life, improve flows, improve water quality, reduce overflows and cave-ins and reduce long-term maintenance costs.



**PROJECT NOTES:**

Project Nos: E12161 / E14015 / E15089  
 E16255 / E17029 / E15175 / E15209  
 A/E Consultants: In-House

Contractor: Various  
 Award Design: Various

Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	1,298.6						1,298,600
Construction	18,901.1	6,000.0	900.0	11,500.0	14,000.0	113,000.0	164,301,100
Contingency				1,000.0	1,400.0	10,000.0	12,400,000
Inspection/Other	492.0	276.1	100.0	500.0	600.0	3,000.0	4,968,100
<b>TOTAL:</b>	20,691.7	6,276.1	1,000.0	13,000.0	16,000.0	126,000.0	\$ 182,967,800
Source of Funds							
Revenue Bond	20,691.7	6,276.1	552.3	13,000.0	16,000.0	126,000.0	182,520,100
Wastewater Reserves			447.7				447,700
<b>TOTAL:</b>	20,691.7	6,276.1	1,000.0	13,000.0	16,000.0	126,000.0	\$ 182,967,800

**OPERATIONAL IMPACT:**  
 Normal flow to the City's wastewater treatment plants is about 30 million gallons of daily (MGD). When it rains, damaged pipe allow the infiltration of rainwater to flow into the treatment plants and be treated along normal wastewater flows. At a treatment cost of \$2.21 per thousand gallons, a normal rain event could cost the City an additional \$150,000.00 in treatment costs for electrical, chemical and personnel requirements. In addition, damaged lines are prone to overflows of the system and subject to cave-ins. Reducing overflows saves chemical and electrical costs, results in fewer service calls, reduces peak flow and protects the environment.

**PROJECT DESCRIPTION**

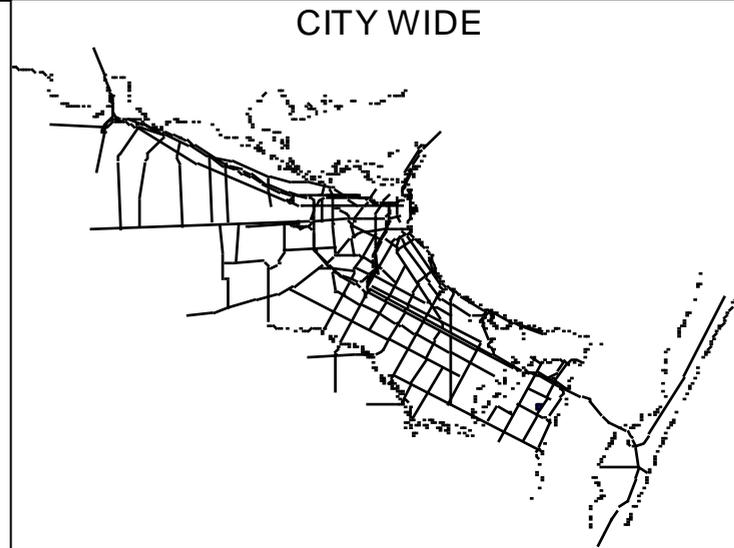
Department: **WASTEWATER** Sequence #02

**PROJECT TITLE: Citywide Lift Station Repair**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project provides for implementation of a strategic lifecycle program for future lift station projects with funding requirements and cost benefit analysis for the City's 99 Lift Stations. The project identifies, prioritizes and implements specific capital improvement in a phased design and construction approach to extend lift station service life, reduce long-term maintenance costs, improve flows, and meet Texas Commission on Environmental Quality guidelines including reducing overflows and redundant systems.



**PROJECT NOTES:**

Project No: E10142  
 A/E Consultant: Urban Engineering  
 Contractor: Various  
 Award Design: April 2014  
 Award Construction: On-Going  
 Anticipated Completion: On-Going

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	145.5		250.0	250.0	250.0		895,500
Construction	1,359.0	1,100.0	2,400.0	2,400.0	2,400.0		9,659,000
Contingency		110.0	200.0	200.0	200.0		710,000
Inspection/Other	4.9	141.0	150.0	150.0	150.0		595,900
<b>TOTAL:</b>	1,509.4	1,351.0	3,000.0	3,000.0	3,000.0		\$ 11,860,400

Source of Funds							
Revenue Bond	1,509.4	1,351.0		3,000.0	3,000.0		8,860,400
Wastewater Reserves			3,000.0				
<b>TOTAL:</b>	1,509.4	1,351.0	3,000.0	3,000.0	3,000.0		\$ 8,860,400

**OPERATIONAL IMPACT:**

Through this project various lift stations with piping and pumps in poor condition throughout the city will be replaced with more reliable and energy efficient equipment. This reduces the probability of failure, emergencies, and will cut down on operational costs by the use of more energy efficient equipment.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

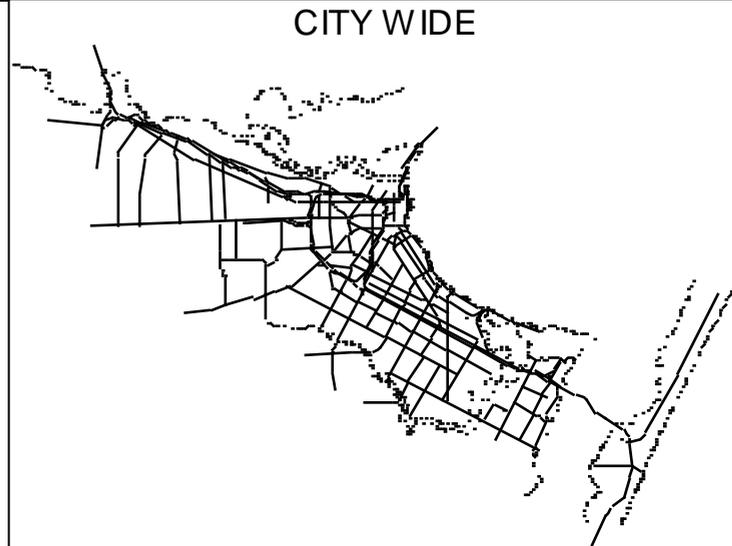
Sequence #03

**PROJECT TITLE: Citywide Wastewater Lift Station Alternate Power Supply**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

Electrical power supply is critical for the operation of the City's Wastewater Lift Stations. The Texas Commission on Environmental Quality guidelines require redundant power sources to avoid overflows during power outages. Currently the City's lift stations rely on single feed power supplied by the local utilities. This project provides the design and construction for emergency back-up generators at critical lift stations. Lift Stations will be improved in priority of system conveyance criteria resulting from the analysis of the city-wide hydraulic model. Additional design and construction packages are anticipated through the Fiscal Year 2022.



**PROJECT NOTES:**

Engineering Project No: 7427  
 150785  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering Construction Contingency Inspection/Other			300.0	300.0	300.0	900.0	<b>1,800,000</b>
<b>TOTAL:</b>	9.1		<b>300.0</b>	300.0	300.0	900.0	<b>\$ 1,809,100</b>
<b>Source of Funds</b>							
Revenue Bond	9.1		<b>300.0</b>	300.0	300.0	900.0	<b>1,809,100</b>
<b>TOTAL:</b>	9.1		<b>300.0</b>	300.0	300.0	900.0	<b>\$ 1,809,100</b>

**OPERATIONAL IMPACT:**

This project provides redundancy to the system and will not greatly increase costs. This system will kick in during any power loss to prevent overflows and enforcement actions when the regular power supply has been interrupted.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

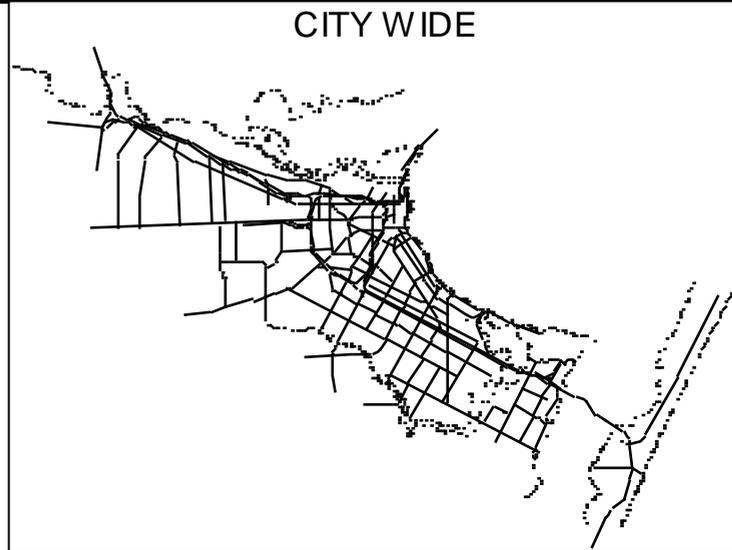
Sequence #04

**PROJECT TITLE: Citywide Wastewater Master Plan**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**

This project is to evaluate the capacity of the existing wastewater systems and to recommend a phased Capital Improvements Plan. This Master Plan will serve as a basis for the design, construction, and financing of facilities required to meet the City's wastewater service needs. The Plan may include major elements such as updating the existing hydraulic models and developing a phased Capital Improvements Plan.



**PROJECT NOTES:**

Project No: TBD  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

<b>Use of Funds</b>	<b>Project-to-Date Obligations July 2017</b>	<b>Unspent Prior Budget as of July 2017</b>	<b>CIP Budget Year 1 2017 - 2018</b>	<b>Year 2 2018 - 2019</b>	<b>Year 3 2019 - 2020</b>	<b>Future Budget Required (Years 4 - 10)</b>	<b>Total Project Value (Amounts in \$'s)</b>
Design & Engineering					250.0	500.0	<b>750,000</b>
Construction							
Contingency							
Inspection/Other					150.0	300.0	<b>450,000</b>
<b>TOTAL:</b>					400.0	800.0	<b>\$ 1,200,000</b>
<b>Source of Funds</b>							
Revenue Bond					400.0	800.0	<b>1,200,000</b>
<b>TOTAL:</b>					400.0	800.0	<b>\$ 1,200,000</b>

**OPERATIONAL IMPACT:**

This project provides guidance to the City's Wastewater CIP projects.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

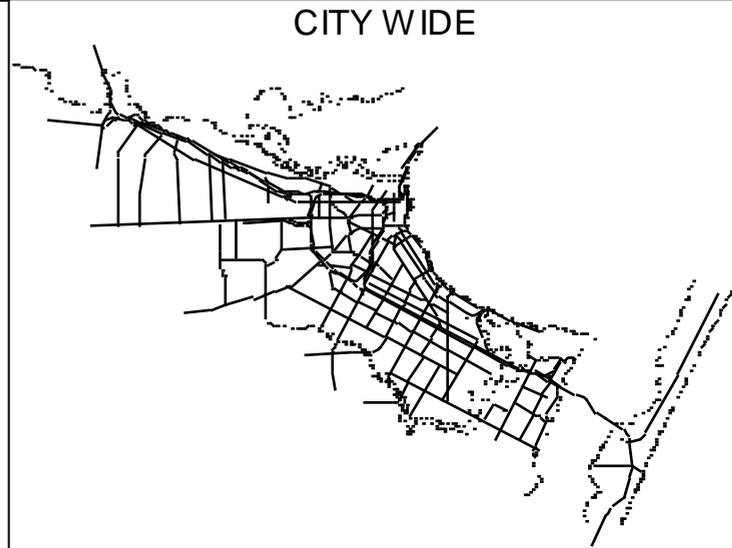
Sequence #05

**PROJECT TITLE: Wastewater Treatment Plants & Lift Station SCADA Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The implementation of the SCADA system has been successful in monitoring the municipal sewage and sludge collection/distribution systems, wet-weather facilities and wastewater treatment plants, complying with regulatory requirements on the discharge, and effectively reducing the operations and maintenance costs. This project proposes the development of a SCADA Master Plan and implementation of a SCADA system to automate the processes that occur at WWTPs and lift stations throughout the City. This will assist the City in efficient monitoring of the system, early detection of process failures, data recording and assisting with regulatory compliance and improved CIP development.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			350.0	350.0			700,000
Construction					2,500.0	2,500.0	5,000,000
Contingency					250.0	250.0	500,000
Inspection/Other			150.0	150.0	250.0	250.0	800,000
<b>TOTAL:</b>			<b>500.0</b>	500.0	3,000.0	3,000.0	<b>\$ 7,000,000</b>
Source of Funds							
Revenue Bond			500.0	500.0	3,000.0	3,000.0	7,000,000
<b>TOTAL:</b>			<b>500.0</b>	500.0	3,000.0	3,000.0	<b>\$ 7,000,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project will bring benefits of improving the performance of operation & maintenance, and regulatory compliance.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

Sequence #06

### PROJECT TITLE: Allison Wastewater Treatment Plant Lift Station and Plant Improvements

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Allison Wastewater Treatment Plant is in the process of undergoing repairs and enhancements to extend the major systems and service life of the plant. Recently completed work at this plant included repairs/replacement of the existing headworks and grit removal equipment. This project provides for the design and construction of lift station pumps and piping replacement, new electrical control room, new emergency generator, disinfection equipment replacement, clarifier telescopic valve replacement, new dewatering drain line, east aeration discharge piping modifications, and pre- and post-thickener scum baffle replacement.



**PROJECT NOTES:**

Project No:	E10043
A/E Consultant:	Urban Engineering
Contractor:	TBD
Award Design:	Jan 2015
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	293.6						293,600
Construction		3,600.0					3,600,000
Contingency		360.0					360,000
Inspection/Other		290.4					290,400
<b>TOTAL:</b>	293.6	4,250.4					<b>\$ 4,544,000</b>
<b>Source of Funds</b>							
Revenue Bond	293.6	4,250.4					4,544,000
<b>TOTAL:</b>	293.6	4,250.4					<b>\$ 4,544,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project will ensure the normal operations of Allison WWTP.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

Sequence #07

### PROJECT TITLE: Allison Plant Process Upgrade and Replacement

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project provides critical upgrades and replacement of deteriorated equipment and systems at the Allison Wastewater Treatment Plant to avoid impending failures. This is a comprehensive project to address the major systems at the plant to extend these systems and operations until the next major lifecycle replacement/upgrade. The scope includes the dry pit/wet pit lift station, east and west aeration basins, two final clarifiers, automatic backwash filter, chlorine contact chamber and disinfection system, effluent reuse transfer pump station, aerobic digester, belt press building, blower building and other miscellaneous items.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			400.0				400,000
Construction				1,600.0	3,000.0		4,600,000
Contingency				200.0	270.0		470,000
Inspection/Other			100.0	200.0	230.0		530,000
<b>TOTAL:</b>			<b>500.0</b>	<b>2,000.0</b>	<b>3,500.0</b>		<b>\$ 6,000,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	2,000.0	3,500.0		6,000,000
<b>TOTAL:</b>			<b>500.0</b>	<b>2,000.0</b>	<b>3,500.0</b>		<b>\$ 6,000,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project will ensure the normal operations of Allison WWTP.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

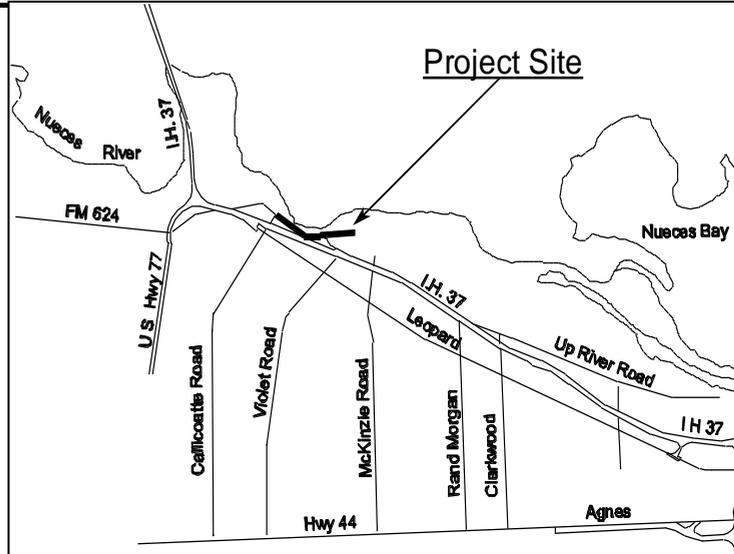
Sequence #08

**PROJECT TITLE: Sharpsburg Lift Station Upgrade & Up River Road Force Main Rehabilitation**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Sharpsburg Lift Station presently experiences near overflow conditions in extreme wet weather conditions. Recent improvements to the Wood River Lift Station and force main system, which flows into the Sharpsburg Lift Station, may exacerbate local peak flow loadings. Existing pump capacity is inadequate to handle peak flows and anticipated 20-year area development contributions. Proposed improvements include four 70 HP capacity pumps, associated piping, odor control, instrumentation and controls, a standby emergency generator and site and security improvements. Future ultimate capacity improvements will include a 36-inch force main, a 54-inch gravity and expanded Lift Station wet well.



**PROJECT NOTES:**

Engineering Project No: 7389  
 Finance Project No: 150265  
 A/E Consultant: LJA  
 Contractor: Assoc. Construction Partners  
 Award Design: July 2008  
 Award Construction: Feb 2017  
 Anticipated Completion: Feb 2018

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	548.8						548,800
Construction	3,061.4	300.0					3,361,400
Contingency							-
Inspection/Other	108.3	51.5					159,800
<b>TOTAL:</b>	3,718.5	351.5					\$ 4,070,000
<b>Source of Funds</b>							
Revenue Bond	3,718.5	351.5					4,070,000
<b>TOTAL:</b>	3,718.5	351.5					\$ 4,070,000

**OPERATIONAL IMPACT:**

Larger pumps for increased capacity will be installed, but will run more efficiently than the existing equipment. Also, increased usage due to development in the area should offset costs and alleviate pressure on the other systems. Work will reduce potential overflows in the area and minimize enforcement actions by the Texas Commission on Environmental Quality.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

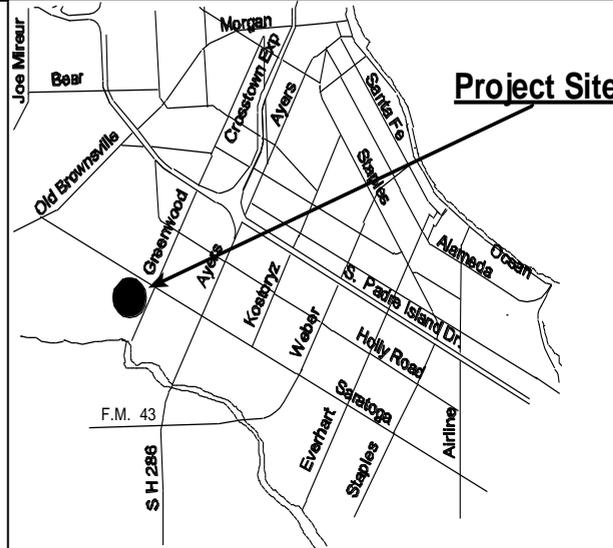
Sequence #09

### PROJECT TITLE: **Greenwood WWTP Flood Mitigation**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Greenwood Wastewater Treatment Plant was originally constructed in 1957 and is located adjacent to La Volla Creek at the intersection of Greenwood Drive and Saratoga Boulevard. Problems concerning wastewater overflows and flooding in neighboring areas have led to the need for flood mitigation improvements. The objective of this project is to construct cost-efficient flood proofing improvements to eliminate Oso Creek/La Volla Creek flooding impacts on the Greenwood Wastewater Treatment Plant with consideration of Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRMs). The anticipated project scope for the Consultant Engineer includes preliminary design for determining appropriate flood proofing improvements, detailed design, development of construction documents, and construction phase services.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			150.0	400.0			550,000
Construction					3,000.0	4,300.0	7,300,000
Contingency					300.0	400.0	700,000
Inspection/Other			350.0	100.0	200.0	300.0	950,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>3,500.0</b>	<b>5,000.0</b>	<b>\$ 9,500,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	500.0	3,500.0	5,000.0	9,500,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>3,500.0</b>	<b>5,000.0</b>	<b>\$ 9,500,000</b>

**OPERATIONAL IMPACT:**

Larger pumps for increased capacity will be installed, but will run more efficiently than the existing equipment. Also, increased usage due to development in the area should offset costs and alleviate pressure on the other systems. Work will reduce potential overflows in the area and minimize enforcement actions by the Texas Commission on Environmental Quality.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

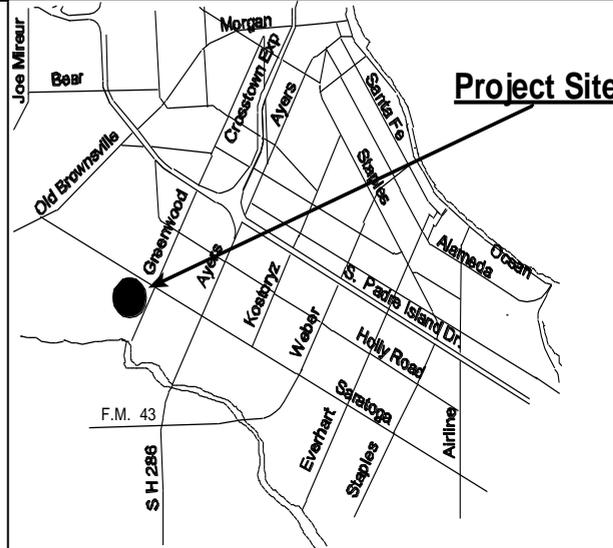
Sequence #10

### PROJECT TITLE: **Greenwood WWTP Electrical Improvements to Ultraviolet (UV) System**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**

This project provides electrical infrastructure improvements to ensure power to the UV disinfection system. Improvements will include two new transformers, control pane and associated conduit and wiring. Transformers and controls will be set at an elevation above the FEMA 100-year storm event flood elevation. Work includes the design and construction of proposed electrical infrastructure to ensure power remains available for continued disinfection capability as required by the Texas Commission on Environmental Quality (TCEQ) so Enterococcus Bacterial permit levels can be maintained during severe weather events.



**PROJECT NOTES:**

Project No: E10180  
 A/E Consultant: LAN, Inc.  
 Contractor: TBD  
 Award Design: Nov. 2015  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	43.2						43,200
Construction		1,000.0	2,150.0	2,150.0			5,300,000
Contingency		100.0	200.0	200.0			500,000
Inspection/Other	25.9	110.9	150.0	150.0			436,800
<b>TOTAL:</b>	69.1	1,210.9	2,500.0	2,500.0			<b>\$ 6,280,000</b>
<b>Source of Funds</b>							
Revenue Bond	69.1	1,210.9	2,500.0	2,500.0			6,280,000
<b>TOTAL:</b>	69.1	1,210.9	2,500.0	2,500.0			<b>\$ 6,280,000</b>

**OPERATIONAL IMPACT:**

The operational impact on the electrical usage will increase with the additional higher intensity bulbs, but the effect should be nominal. Failure to complete project could result in TCEQ administrative sanctions.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

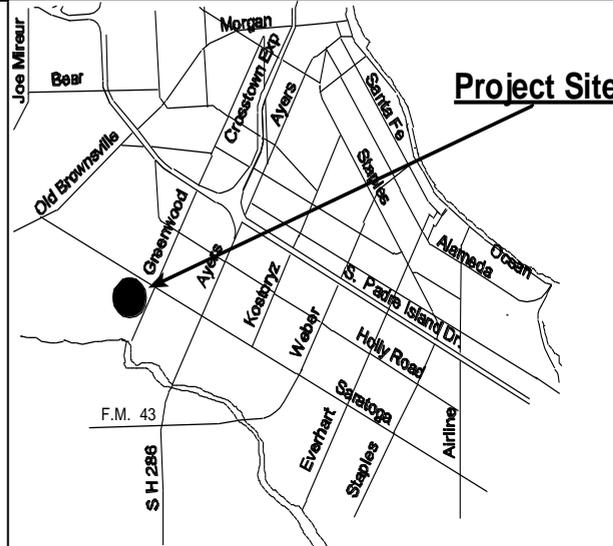
Sequence #11

### PROJECT TITLE: **Greenwood Headworks & Grit Removal Rehab**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**

The Headworks including grit removal facilities at the Greenwood WWTP was constructed in 1990. Due to the age of equipment, structure, harsh environment of sewer gases and constant coastal winds, the headworks is in critical need of improvements. To extend the life of the Headworks, it is recommended the concrete walls and beams be restored and provided with a new protective coating, existing slide gates be restored to operation, existing mechanical bar screens be replaced and miscellaneous valves, equipment and piping be replaced as necessary to extend the life of this structure.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			400.0				400,000
Construction				1,600.0	1,200.0		2,800,000
Contingency				160.0	100.0		260,000
Inspection/Other			100.0	140.0	200.0		440,000
<b>TOTAL:</b>			<b>500.0</b>	<b>1,900.0</b>	<b>1,500.0</b>		<b>\$ 3,900,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	1,900.0	1,500.0		3,900,000
<b>TOTAL:</b>			<b>500.0</b>	<b>1,900.0</b>	<b>1,500.0</b>		<b>\$ 3,900,000</b>

**OPERATIONAL IMPACT:**

The execution of this project will extend the life of treatment plant and improve the efficiency of operation.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

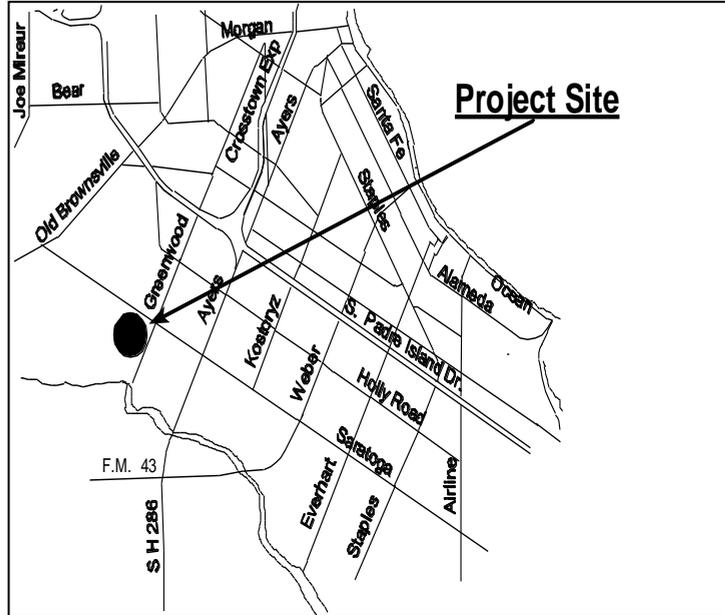
Sequence #12

### PROJECT TITLE: Greenwood Aeration Basin & Clarifier Rehab

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Primary Clarifiers 1 – 4 are in overall poor condition. The scum pump system is currently inoperable while the scum skimmers, effluent weirs, scum baffles, rake mechanisms, rake support, and drive assemblies are severely corroded and have no remaining useful service life. Access stairs are severely corroded and should be replaced to address safety concerns. The electrical system consisting of control panels, lighting, convenience receptacles, conduits, wiring and supports is outdated and unreliable. The existing air piping and air drops for Aeration Basins 1 - 5 has deteriorated over time and leaks and must be replaced. In addition, the inlet and outlet gate valve operators should be replaced as they are no longer functional and limit the operators ability to control plant flows. Hand rails and steps throughout the aeration basins should be evaluated for replacement and/or additional support to improve rigidity and fall protection. There is extensive corrosion and deterioration of the baffles, drives and bridges on Final Clarifiers 1 – 2 which should be replaced.



**PROJECT NOTES:**

Engineering Project No:	TBD
Finance Project No:	
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			700.0	200.0			900,000
Construction				500.0	3,500.0	2,400.0	6,400,000
Contingency					300.0	200.0	500,000
Inspection/Other			300.0	300.0	200.0	100.0	900,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>1,000.0</b>	<b>4,000.0</b>	<b>2,700.0</b>	<b>\$ 8,700,000</b>
<b>Source of Funds</b>							
Revenue Bond			1,000.0	1,000.0	4,000.0	2,700.0	8,700,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>1,000.0</b>	<b>4,000.0</b>	<b>2,700.0</b>	<b>\$ 8,700,000</b>

**OPERATIONAL IMPACT:**

The execution of this project will extend the life of treatment plant and improve the efficiency of operation.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

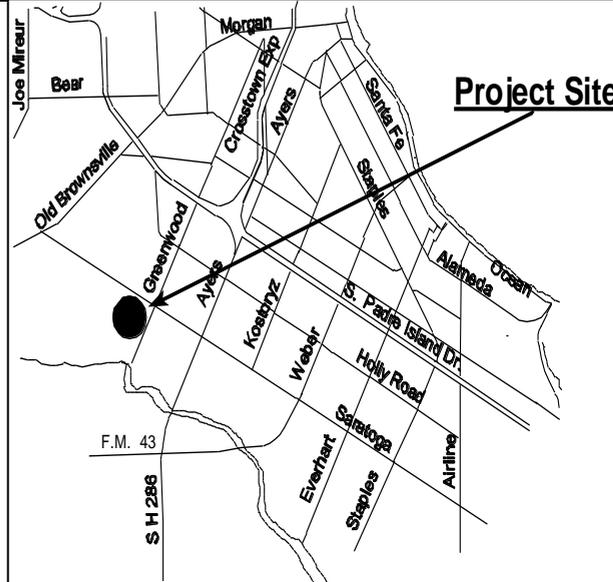
Sequence #13

### PROJECT TITLE: **Greenwood DAF Unit Rehab & Odor Control**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Dissolved Air Flotation (DAF) system at Greenwood WWTP is in very poor condition and is no longer being used as intended. The WAS pumps lose prime on a regular basis and should be evaluated as the system will not function properly without control of waste flows. The system also, in conjunction with the belt press facility, produces a nuisance odor and should be evaluated to determine the most effective way to eliminate or treat the odors. To improve solids handling at the plant, installation of a new polymer feed system is needed to replace the current non-operational unit. Other odor control measures should consider improvements on influent wet well, grit chamber covers, par shall flume channels, etc. The anticipated project scope for the Consultant Engineer includes preliminary design for determining appropriate approaches, detailed design, development of construction documents, and construction phase services.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			150.0	400.0			550,000
Construction					3,000.0	4,300.0	7,300,000
Contingency					300.0	400.0	700,000
Inspection/Other			350.0	100.0	200.0	300.0	950,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>3,500.0</b>	<b>5,000.0</b>	<b>\$ 9,500,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	500.0	3,500.0	5,000.0	9,500,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>3,500.0</b>	<b>5,000.0</b>	<b>\$ 9,500,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is needed to meet regulatory requirements.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

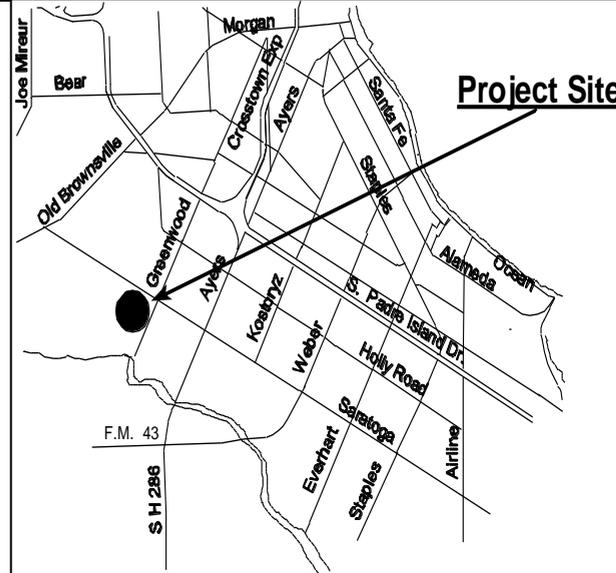
Sequence #14

### PROJECT TITLE: Greenwood Digester Replacement & Bio-Gas Upgrades

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The dome covers was reported severe corrosion. The biogas system isn't functioning as designed. This project will include a technology and design review of the gas circulation system. The fans, ductwork and heat exchanger are at the end of their useful service life and must be replaced. In addition, there has been significant settling of the soils around the Digesters and associated facilities which requires fill materials and regrading for improved drainage and support.



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			700.0				700,000
Construction				800.0	4,000.0	4,000.0	8,800,000
Contingency				100.0	500.0	500.0	1,100,000
Inspection/Other			300.0	100.0	500.0	500.0	1,400,000
<b>TOTAL:</b>			<b>1,000.0</b>	1,000.0	5,000.0	5,000.0	<b>\$ 12,000,000</b>
<b>Source of Funds</b>							
Revenue Bond			1,000.0	1,000.0	5,000.0	5,000.0	12,000,000
<b>TOTAL:</b>			<b>1,000.0</b>	1,000.0	5,000.0	5,000.0	<b>\$ 12,000,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is needed to meet regulatory requirements.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

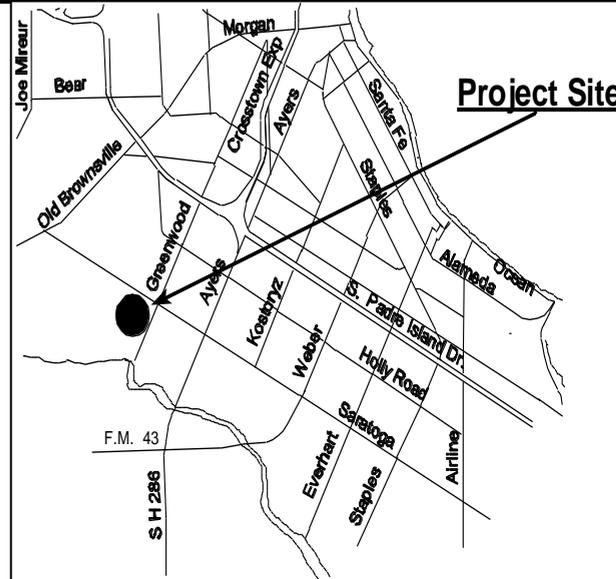
Sequence #15

**PROJECT TITLE: Greenwood Flow Diversion to New Broadway WWTP**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**

To mitigate pressure on the treatment capacity of Greenwood WWTP, this project is intended to divert flow from Greenwood WWTP to the New Broadway WWTP. As per preliminary analysis, this project may include the following improvements: check and determine the conditions of the abandoned 30-in cast iron waterline in Leopard Street; tie-in 20-inch PVC force main in McBride Lane from Erin Street to the abandoned 30-in cast iron waterline in Leopard Street or a new PVC line; upsize the 24-in PVC line in Antelope Street. The anticipated project scope for the Consultant Engineer includes preliminary design for determining appropriate diversion approach, detailed design, development of construction documents, and construction phase services



**PROJECT NOTES:**

Engineering Project No: TBD  
 Finance Project No:  
 A/E Consultant: TBD  
 Contractor: TBD  
 Award Design: TBD  
 Award Construction: TBD  
 Anticipated Completion: TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					800.0		800,000
Construction						7,800.0	7,800,000
Contingency						780.0	780,000
Inspection/Other					200.0	420.0	620,000
<b>TOTAL:</b>					1,000.0	9,000.0	\$ 10,000,000
Source of Funds							
Revenue Bond					1,000.0	9,000.0	10,000,000
<b>TOTAL:</b>					1,000.0	9,000.0	\$ 10,000,000

**OPERATIONAL IMPACT:**

The implementation of this project will balance the waste treatment capacity.

**PROJECT DESCRIPTION**

Department: **WASTEWATER** Sequence #16

**PROJECT TITLE: McBride Lift Station and Force Main Improvements**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**PROJECT NOTES:**

**DESCRIPTION:**

The McBride lift station system is located at 1200 McBride Lane and is at the end of its effective life cycle. The McBride Lift Station and Force Main were constructed in 1960 with a capacity of approximately 4.46 million gallons per day (MGD). They serve the area north of Leopard Street to Up River Road and from Corn Products Road east to Omaha Drive. The existing lift station lacks sufficient capacity to meet land development in the service area. The project scope includes demolishing and replacing the McBride lift station with approximately 700 feet of 18-inch force main bored under IH-37 and tie-into the existing force main.

Project No: E14054  
 A/E Consultant: LJA  
 Contractor: TBD  
 Award Design: Nov. 2015  
 Award Construction: April 2018  
 Anticipated Completion: May 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	679.0						679,000
Construction	1,075.8	3,200.0	1,250.0				5,525,800
Contingency		300.0	125.0				425,000
Inspection/Other	224.5	242.8	125.0				592,300
<b>TOTAL:</b>	1,979.3	3,742.8	1,500.0				\$ 7,222,100

Source of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Revenue Bond	1,979.3	3,742.8	1,500.0				7,222,100
<b>TOTAL:</b>	1,979.3	3,742.8	1,500.0				\$ 7,222,100

**OPERATIONAL IMPACT:**

Estimated operational impact should be negligible. Force main improvements will be the focus of immediate repairs. Larger and more efficient pumps with increased wet well capacity and new controls will be included in the program development subject to available funds. Anticipated increased usage due to area development will offset costs and alleviate pressure on other systems.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

Sequence #17

### PROJECT TITLE: **New Broadway WWTP Rehabilitation**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

Numerous problems persist at the New Broadway Wastewater Treatment Plant (NBWWTP) due to poor construction. The facility is replete with defective work items, and some work items still remain incomplete to this day. The major problems at the NBWWTP include the Disinfection System (UV disinfection), aeration basins, aeration blowers, SCADA system, and others. As a result, the Plant has never been able to operate in accordance with the original design intention. The objective of this project is to repair all the problems at the existing NBWWTP and deliver a wastewater treatment plant meeting original design intention and regulatory requirements. The anticipated project scope for the Consultant Engineer includes preliminary design for overall assessment on the existing NBWWTP, detailed design, development of construction documents, and construction phase services.



**PROJECT NOTES:**

Engineering Project No:	TBD
Finance Project No:	
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			300.0	800.0			1,100,000
Construction					3,500.0	4,500.0	8,000,000
Contingency					350.0	250.0	600,000
Inspection/Other			700.0	200.0	150.0	250.0	1,300,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>1,000.0</b>	<b>4,000.0</b>	<b>5,000.0</b>	<b>\$ 11,000,000</b>
<b>Source of Funds</b>							
Revenue Bond			1,000.0	1,000.0	4,000.0	5,000.0	11,000,000
<b>TOTAL:</b>			<b>1,000.0</b>	<b>1,000.0</b>	<b>4,000.0</b>	<b>5,000.0</b>	<b>\$ 11,000,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is to deliver a wastewater treatment plant meeting original design intention and regulatory requirements.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

Sequence #18

### PROJECT TITLE: Old Broadway Wastewater Plant Decommissioning

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project complies with Phase 3 of the Wastewater Facilities Implementation Plan. With the completion of construction of the replacement wastewater treatment process plant, the existing facilities at 1402 W. Broadway will be decommissioned and taken out of service in compliance with Texas Commission on Environmental Quality requirements. Prior work included media removal and decommissioning of trickling filters. This project includes demolition of the remaining facility, site grading and aesthetic improvements.



**PROJECT NOTES:**

Project No:	E12159
A/E Consultant:	Freese
Contractor:	TBD
Award Design:	Oct. 2017
Award Construction:	Oct 2018
Anticipated Completion:	Feb 2020

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	667.4						<b>667,400</b>
Construction	1,023.9			3,000.0	1,000.0		<b>5,023,900</b>
Contingency				400.0	100.0		<b>500,000</b>
Inspection/Other	176.1	600.0		300.0	100.0		<b>1,176,100</b>
<b>TOTAL:</b>	<b>1,867.4</b>	<b>600.0</b>		<b>3,700.0</b>	<b>1,200.0</b>		<b>\$ 7,367,400</b>
Source of Funds							
Revenue Bond	1,867.4	600.0		3,700.0	1,200.0		<b>7,367,400</b>
<b>TOTAL:</b>	<b>1,867.4</b>	<b>600.0</b>		<b>3,700.0</b>	<b>1,200.0</b>		<b>\$ 7,367,400</b>

**OPERATIONAL IMPACT:**

There are no operational costs associated with demolition, but once the old wastewater treatment plant site has been demolished and cleared it will be available for economic purposes.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

Sequence #19

### PROJECT TITLE: **Broadway WWTP Effluent Line Rehabilitation**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project is to restore the structural integrity of the existing effluent pipeline, increase its capacity from 20 MGD to 40 MGD and to maintain the same outfall location as is currently identified in the City's discharge permit. That project included the rehabilitation of approximately 1,300 linear feet of existing 42-inch concrete flex joint effluent line and the installation of approximately 2,600 linear feet of new 42-inch line parallel to the Salt Flats Drainage Ditch from the New Broadway WWTP to the Port of Corpus Christi ship channel.



**PROJECT NOTES:**

Project No:	E10003
A/E Consultant:	LNV
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					50.0		50,000
Construction					2,100.0	2,000.0	4,100,000
Contingency					210.0	200.0	410,000
Inspection/Other					140.0	300.0	440,000
<b>TOTAL:</b>					2,500.0	2,500.0	<b>\$ 5,000,000</b>
Source of Funds							
Revenue Bond					2,500.0	2,500.0	5,000,000
<b>TOTAL:</b>					2,500.0	2,500.0	<b>\$ 5,000,000</b>

**OPERATIONAL IMPACT:**

There are no operational costs associated with demolition, but once the old wastewater treatment plant site has been demolished and cleared it will be available for economic purposes.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

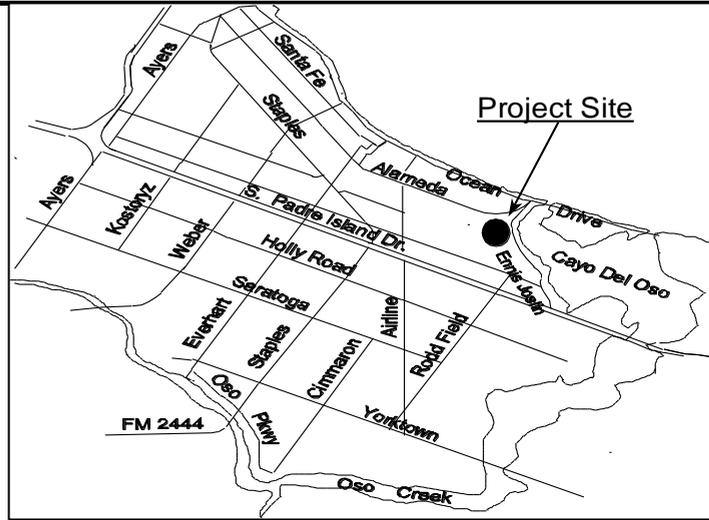
Sequence #20

**PROJECT TITLE: Oso WRP Headworks and Lift Station**

*Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan*

**DESCRIPTION:**

The construction of the Oso WRP Interim Ammonia Improvements Phase 1 has achieved the required interim modifications of the physical, chemical and biological treatment processes to the Oso WRP. This project ensures continued compliance with recent ammonia and nutrient removal permit criteria. The project consists of the construction of a new headworks, lift station, Electrical Control Room (ECR) building, odor control unit, and yard piping.



**PROJECT NOTES:**

Project No:	E12206
A/E Consultant:	LNV, Inc.
Contractor:	TBD
Award Design:	June 2013
Award Construction:	Sept. 2017
Anticipated Completion:	Aug. 2020

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	10,024.3						10,024,300
Construction			8,500.0	10,500.0	5,500.0		24,500,000
Contingency			850.0	1,000.0	250.0		2,100,000
Inspection/Other	223.6		650.0	500.0	250.0		1,623,600
<b>TOTAL:</b>	10,247.9		10,000.0	12,000.0	6,000.0		\$ 38,247,900
<b>Source of Funds</b>							
Revenue Bond	10,247.9			12,000.0	6,000.0		28,247,900
Wastewater Reserves			10,000.0				10,000,000
<b>TOTAL:</b>	10,247.9		10,000.0	12,000.0	6,000.0		\$ 38,247,900

**OPERATIONAL IMPACT:**

This project will enable the plant to run in a more economical and efficient manner. Operational impact is adversely affected when the plant is not working at optimal levels.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

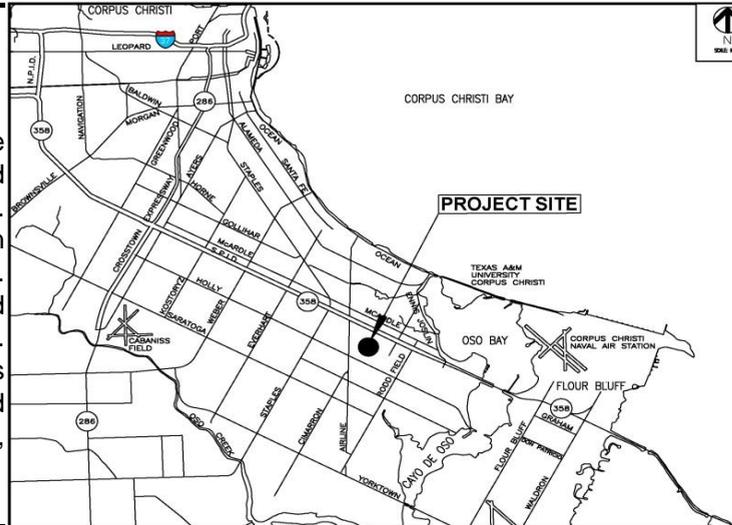
Sequence #21

### PROJECT TITLE: Williams Lift Station Force Main (Line A)

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Williams Lift Station is the largest lift station in the City and serves the City's future growth in the Southside. The lift station and its associated force main were constructed in 1983 with a wet well/dry well arrangement. The lift station and its 36-in DIP force main provide a critical role in conveying wet weather flows through the collection system to the Oso WRP. Recent inspections of the force main and its air release valves showed signs of significant corrosion due to hydrogen sulfide in some locations. The anticipated project scope for the Consultant Engineer includes preliminary design for more detailed condition assessment of the line and the rehabilitation of the line in the locations needed, detailed design, development of construction documents, and construction phase services.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering					500.0		500,000
Construction						6,000.0	6,000,000
Contingency						600.0	600,000
Inspection/Other					150.0	600.0	750,000
<b>TOTAL:</b>					650.0	7,200.0	<b>\$ 7,850,000</b>
<b>Source of Funds</b>							
Revenue Bond					650.0	7,200.0	7,850,000
<b>TOTAL:</b>					650.0	7,200.0	<b>\$ 7,850,000</b>

**OPERATIONAL IMPACT:**

This project will increase wastewater service area in response to regional economical and population growth.



**PROJECT DESCRIPTION**

Department: **WASTEWATER**

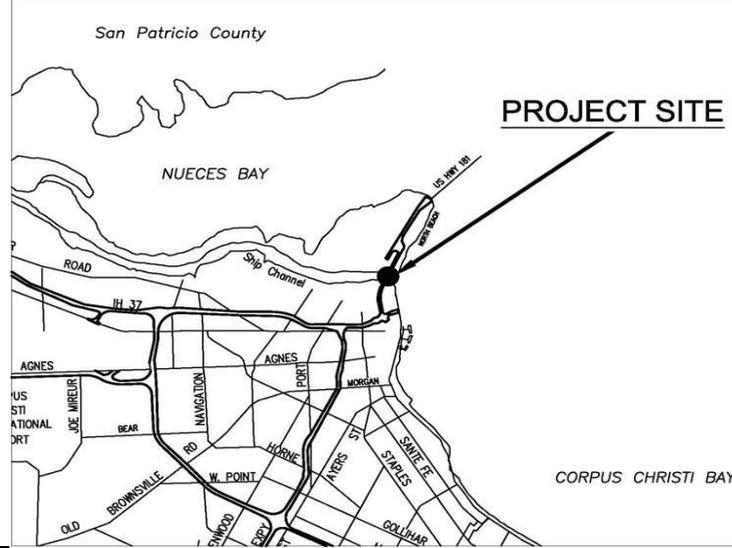
Sequence #23

**PROJECT TITLE: PROJECT TITLE: TxDOT Wastewater Line Relocation - HARBOR BRIDGE**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project is to relocate the wastewater line within Harbor Bridge easement to meet construction schedule of Harbor Bridge project.



**PROJECT NOTES:**

Project No:	E15158
A/E Consultant:	N/A
Contractor:	N/A
Award Design:	N/A
Award Construction:	N/A
Anticipated Completion:	N/A

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering Construction Contingency Inspection/Other	595.5		3,000.0				3,595,500
<b>TOTAL:</b>	595.5		3,000.0				\$ 3,595,500
Source of Funds							
Revenue Bond	595.5		3,000.0				3,595,500
<b>TOTAL:</b>	595.5		3,000.0				\$ 3,595,500

**OPERATIONAL IMPACT:**

The operational impact of this project is negligible, but it is required to facilitate construction of new Harbor Bridge.

## PROJECT DESCRIPTION

Department: **WASTEWATER**

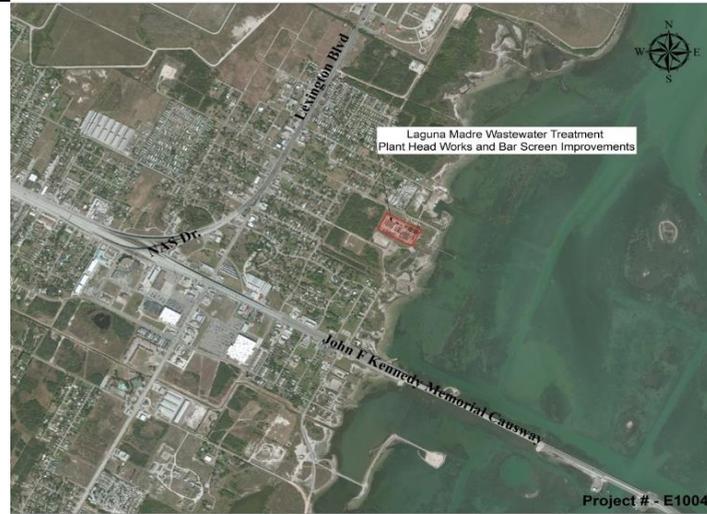
Sequence #24

### PROJECT TITLE: **Laguna Madre Plant Rehab**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project involves replacement of a portable office building along with replacement of stairs and railing for the new grit system. Scum system replacement, clarifier equipment replacement, upgrades of the diffused air system to fine bubbles is also proposed. The project also proposes to rehab thickener equipment along with sludge holding tank and the polymer system. Replacement of non- potable water system and installation of SCADA system is also proposed.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

#### FUNDING SCHEDULE (Amount in 000's)

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			400.0	250.0			650,000
Construction					1,800.0	2,200.0	4,000,000
Contingency					180.0	150.0	330,000
Inspection/Other			100.0	250.0	120.0	150.0	620,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>2,100.0</b>	<b>2,500.0</b>	<b>\$ 5,600,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	500.0	2,100.0	2,500.0	5,600,000
<b>TOTAL:</b>			<b>500.0</b>	<b>500.0</b>	<b>2,100.0</b>	<b>2,500.0</b>	<b>\$ 5,600,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is needed to meet operational and regulatory requirements

## PROJECT DESCRIPTION

Department: **WASTEWATER**

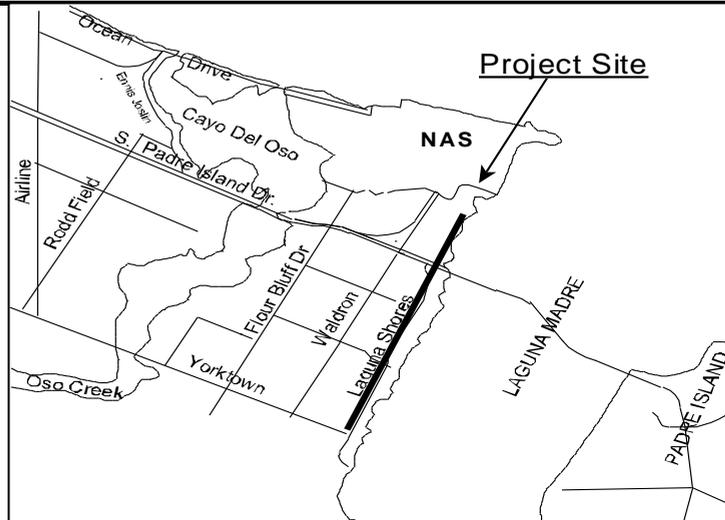
Sequence #25

### PROJECT TITLE: **Laguna Shores Road Force Main Replacement**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project includes the installation of a new force main to convey waste flows from Graham Road to the Laguna Madre WWTP and an interconnect to tie the new force main to the existing 18-inch force main, allowing the existing to be used as a back up in case of emergency. Additional work includes construction of a new Gate Lift Station and associated new gravity wastewater infrastructure necessary to take the existing siphon wastewater line beneath South Padre Island Drive offline as well as the installation of flowmeters at the Riviera Lift Station, Laguna Shores Lift Station, Waldron Lift Station, Flour Bluff Lift Station, and the new Gateway Lift Station.



**PROJECT NOTES:**

Project No:	E10054
A/E Consultant:	LJA, Inc.
Contractor:	TBD
Award Design:	Oct. 2012
Award Construction:	Mar 2018
Anticipated Completion:	Mar 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering	598.3						598,300
Construction		1,800.0	1,700.0	700.0			4,200,000
Contingency		180.0	170.0	70.0			420,000
Inspection/Other	128.8	413.0	130.0	30.0			701,800
<b>TOTAL:</b>	727.1	2,393.0	2,000.0	800.0			<b>\$ 5,920,100</b>
Source of Funds							
Revenue Bond	727.1	2,393.0	2,000.0	800.0			5,920,100
<b>TOTAL:</b>	727.1	2,393.0	2,000.0	800.0			<b>\$ 5,920,100</b>

**OPERATIONAL IMPACT:**

This project will increase operational efficiencies and protect against overflows, preventing enforcement action from the Texas Commission on Environmental Quality.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

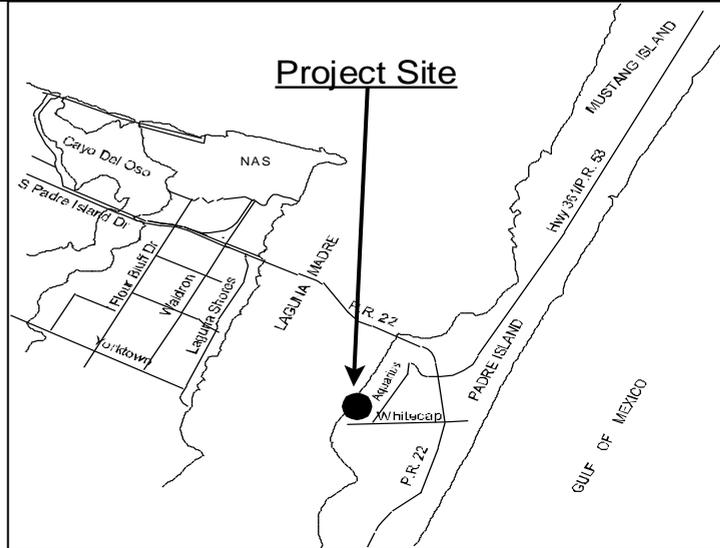
Sequence #26

**PROJECT TITLE: Whitecap, Odor Control, Process & Bulkhead Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

The Whitecap Wastewater Treatment Plant provides wastewater treatment service for the City's customers located on Padre Island. The original plant was a 0.5 million gallons per day (MGD) capacity plant that has been expanded over the years to 2.5 MGD capacity due to growth on the island. The existing odor control unit has exceeded its useful life cycle and rehabilitation is now required. Also, the existing unit employs chemicals for treatment and new modern odor control units are biological. Odor control and aerobic digester embrace the efficiency of plant operations. Bulkhead repairs will also be addressed.



**PROJECT NOTES:**

Project No:	E10053
A/E Consultant:	CRG
Contractor:	TBD
Award Design:	May 2016
Award Construction:	Oct 2018
Anticipated Completion:	Dec 2019

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			450.0				450,000
Construction				2,500.0	1,750.0		4,250,000
Contingency				250.0	150.0		400,000
Inspection/Other	49.4		150.0	250.0	100.0		549,400
<b>TOTAL:</b>	49.4		<b>600.0</b>	3,000.0	2,000.0		<b>\$ 5,649,400</b>
Source of Funds							
Revenue Bond	49.4		600.0	3,000.0	2,000.0		5,649,400
<b>TOTAL:</b>	49.4		<b>600.0</b>	3,000.0	2,000.0		<b>\$ 5,649,400</b>

**OPERATIONAL IMPACT:**

The continued property development and encroachment near wastewater treatment plants, along with more stringent regulatory odor standards, are requiring additional improvements to minimize odors and prevent penalties. Improvements will not result in additional operational costs and will help avoid penalties for non-compliance. This project also is part of a "good neighbor" policy.

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

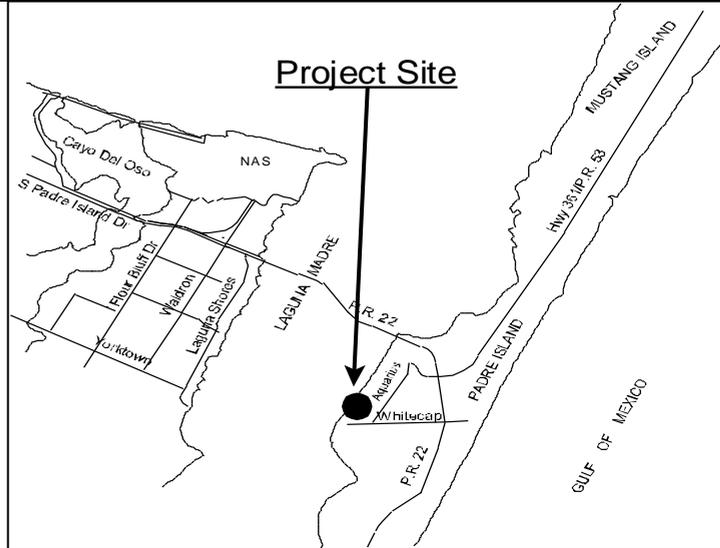
Sequence #27

**PROJECT TITLE: Whitecap Lift Station & Grit Removal Improvements**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project involves replacing the existing influent lift station. The accompanying odor control unit, bar screens, lighting and power to the lift station will also be replaced. A new grit removal system will also be installed on site.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			350.0	350.0			700,000
Construction					1,100.0	2,200.0	3,300,000
Contingency					150.0	150.0	300,000
Inspection/Other			150.0	150.0	250.0	150.0	700,000
<b>TOTAL:</b>			<b>500.0</b>	500.0	1,500.0	2,500.0	<b>\$ 5,000,000</b>
Source of Funds							
Revenue Bond			500.0	500.0	1,500.0	2,500.0	5,000,000
<b>TOTAL:</b>			<b>500.0</b>	500.0	1,500.0	2,500.0	<b>\$ 5,000,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is needed to meet operational and regulatory requirements

**PROJECT DESCRIPTION**

Department: **WASTEWATER**

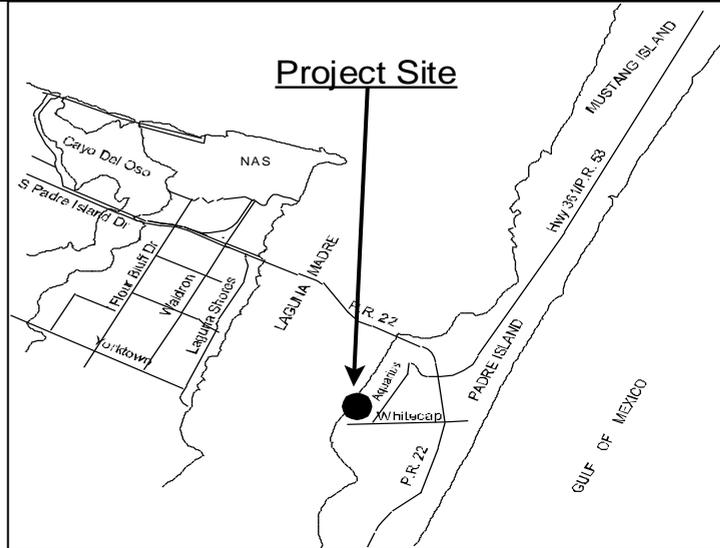
Sequence #28

**PROJECT TITLE: Whitecap Aeration & Clarifier Rehab**

**Consistency with the Comprehensive Plan: Policy Statements pg. 48: 1,3 & 6; pp. 55-58; Wastewater Master Plan**

**DESCRIPTION:**

This project involves the rehabilitation of air diffusers and air piping in aeration basins. Rehabilitation of clarifiers 1 and 2 are also planned along with electrical and lighting improvements. The anticipated project scope for the Consultant Engineer includes preliminary design, detailed design, development of construction documents, and construction phase services.



**PROJECT NOTES:**

Project No:	TBD
A/E Consultant:	TBD
Contractor:	TBD
Award Design:	TBD
Award Construction:	TBD
Anticipated Completion:	TBD

**FUNDING SCHEDULE (Amount in 000's)**

Use of Funds	Project-to-Date Obligations July 2017	Unspent Prior Budget as of July 2017	CIP Budget Year 1 2017 - 2018	Year 2 2018 - 2019	Year 3 2019 - 2020	Future Budget Required (Years 4 - 10)	Total Project Value (Amounts in \$'s)
Design & Engineering			350.0				350,000
Construction				1,250.0	400.0		1,650,000
Contingency				120.0	50.0		170,000
Inspection/Other			150.0	130.0	50.0		330,000
<b>TOTAL:</b>			<b>500.0</b>	<b>1,500.0</b>	<b>500.0</b>		<b>\$ 2,500,000</b>
<b>Source of Funds</b>							
Revenue Bond			500.0	1,500.0	500.0		2,500,000
<b>TOTAL:</b>			<b>500.0</b>	<b>1,500.0</b>	<b>500.0</b>		<b>\$ 2,500,000</b>

**OPERATIONAL IMPACT:**

The implementation of this project is needed to meet operational and regulatory requirements