

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No:	SE35031801
Project Name:	Aeration Basin Blower
Location:	WWTP
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	07/16/20
Contact:	JP Castro
Project Start:	05/15/17
Project Complete:	02/15/22
Project Estimate:	\$ 1,100,000
Project Funding to Date:	\$ 1,100,000

Project Description/Justification:

The Aeration Basin Blower system requires a third blower to throttle aeration and as a back up for redundancy.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design	\$ 100,000						
Construction	\$ 800,000	\$ 200,000					
Total	\$ 900,000	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 1,100,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
Sewer	\$ 847,000					
Navy	\$ 253,000					
Total	\$ 1,100,000	\$ -	\$ -	\$ -	\$ -	\$ -

\$ 1,100,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35031802
Project Name: Forcemain Fleming Key
Location: Fleming Key Bridge
Department: Utilities - Sewer
Account No: 401-3503-535-6500

Date: 07/18/21
Contact: JP Castro
Project Start: 11/01/17
Project Complete: 09/30/22
Project Estimate: \$ 9,968,156
Project Funding to Date: \$ 8,465,212

Project Description/Justification:

This project relocates the influent force main over the Fleming Key bridget to under the bridge to mitigate the risk of a broken main if damage were to occur to the bridge in hurricane like events or boat strikes.

Reasons for Funding Modification (if applicable):

100% Grant Funded

Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design		\$ 730,000					
Construction		\$ 9,238,156					
Total	\$ -	\$ 9,968,156	\$ -	\$ -	\$ -	\$ -	\$ 9,968,156

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Sewer Fund	\$ 2,716,271	\$ (2,716,271)					
Grant	\$ 5,748,941	\$ 4,219,215					
Total	\$ 8,465,212	\$ 1,502,944	\$ -	\$ -	\$ -	\$ -	\$ 9,968,156

CITY OF KEY WEST
FY 201/22 CIP PROJECT DETAIL

Project No: SE35032001
Project Name: County Project Bertha St. Manhole Ring and Covers
Location: Bertha St.
Department: UTILITIES
Account No: 401-3503-535-6500

Date: 07/09/20
Contact: JP Castro
Project Start: 06/01/19
Project Complete: 05/01/22
Project Estimate: \$ 135,000
Project Funding to Date: \$ 135,000

Project Description/Justification:

Monroe County is scheduled to renovate 1st St. and Bertha St. in 2020. The manhole rings and covers for the sanitary sewer are over 20 years old on that street. The City is going to purchase the materials for the County's contractor to replace when the road is reconstructed.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Construction	\$ 45,000	\$ 90,000					
Total	\$ 45,000	\$ 90,000	\$ -	\$ -	\$ -	\$ -	\$ 135,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
City	\$ 125,550						
Navy	\$ 9,450						
Total	\$ 135,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 135,000

Phase	Funded	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26
401	\$ 60,450					
Navy	\$ 4,550					
Total	\$ 65,000	\$ -	\$ -	\$ -	\$ -	\$ -

\$ 65,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042002
Project Name: Electrical Switchgear Replacement
Location: WWTP
Department: Utilities - Sewer
Account No: 401-3504-535-6500

Date: 05/19/21
Contact: JP Castro
Project Start: 07/01/20
Project Complete: 06/30/22
Project Estimate: \$ 3,920,000
Project Funding to Date: \$ 1,620,000

Project Description/Justification:

The electrical switchgear at the treatment plant has reached the end of it's useful life. The scope was increased when KEYS agreed to replace the transformers that were also 30 years old and make the system capacity higher with redundancy. The future projects at the plant will not be have available capacity without the switchgear project.

Reasons for Funding Modification (if applicable):

Additional funds for removing old transformers, removing old secondaries, installing new secondaries to new transformers, additional phasing to maintain operations through the 4 MCC's, on site back up 2.5mw generator for redundancy.

Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design	\$ 225,000						
Construction	\$ 1,395,000	\$ 2,300,000					
Total	\$ 1,620,000	\$ 2,300,000	\$ -	\$ -	\$ -	\$ -	\$ 3,920,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Sewer	\$ 1,247,400	\$ 1,771,000					
Navy	\$ 372,600	\$ 529,000					
Total	\$ 1,620,000	\$ 2,300,000	\$ -	\$ -	\$ -	\$ -	\$ 3,920,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042004
Project Name: Ferric Tank Replacement
Location: WWTP
Department: Sewer
Account No: 401-3504-535-6500

Date: 05/06/20
Contact: JP Castro
Project Start: 10/01/19
Project Complete: 12/31/21
Project Estimate: \$ 150,000
Project Funding to Date: \$ 150,000

Project Description/Justification:

The 2 Ferric tanks at the plant are crucial for treatment operations. The tanks are 30 years old. One has corroded through and is no longer operational. They both need to be removed and replaced.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design							
Construction	\$ 150,000						
Total	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Source Summary

Phase	Funded	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
401	\$ 115,500						
Navy	\$ 34,500						
Total	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042006
Project Name: Solids Dewatering
Location: WWTP
Department: Utilities - Sewer
Account No: 401-3504-535-6500

Date: 05/19/21
Contact: JP Castro
Project Start: 07/01/20
Project Complete: 10/30/22
Project Estimate: \$ 3,100,000
Project Funding to Date: \$ 2,250,000

Project Description/Justification:

the filter belt presses that dewater the sludge at the WWTP are original to the plant and are in need of replacement.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design	\$ 200,000						
Construction	\$ 2,050,000	\$ 850,000					
Total	\$ 2,250,000	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ 3,100,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Sewer	\$ 1,732,500	\$ 654,500					
Navy	\$ 517,500	\$ 195,500					
Total	\$ 2,250,000	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ 3,100,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042101
Project Name: SCADA Upgrades
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 07/17/21
Contact: JP Castro
Project Start: 10/01/20
Project Complete: 08/15/22
Project Estimate: \$ 100,000
Project Funding to Date: \$ 100,000

Project Description/Justification:

Supervisory Control and Data Acquisition is computer system that gathers and analyzes data in real time. This is how the various probes, meters, pumps, and controls talk to each other and send information to plant operators. The system needs considerable updates and additions to keep the plant data current.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design							
Construction	\$ 100,000						
Total	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
City	\$ 77,000						
Navy	\$ 23,000						
Total	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042102
Project Name: RAS WAS Pump and Valve Replacement
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 07/17/21
Contact: JP Castro
Project Start: 10/01/20
Project Complete: 03/15/22
Project Estimate: \$ 1,500,000
Project Funding to Date: \$ 83,000

Project Description/Justification:

Replace the Return Activated Sludge and Waste Activated Sludge pumps and valves which are original to the plant and over 20 years old. They are passed their useful life.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design	\$ 80,000						
Construction		\$ 1,500,000					
Total	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
City	\$ 64,600	\$ 1,155,000					
Navy	\$ 18,400	\$ 345,000					
Total	\$ 83,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,583,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: SE35042103
Project Name: Compost Facility
Location: WWTP
Department: Utilities - Sewer
Account No: 401-3504-535-6500

Date: 05/19/21
Contact: JP Castro
Project Start: 07/01/20
Project Complete: 01/30/23
Project Estimate: \$ 5,800,000
Project Funding to Date: \$ 300,000

Project Description/Justification:

A new compost facility would allow the City to use the solids from the plant and yard waste from the community to make high end compost. The facility requires multiple drying structures, fans and blowers for odor control, and considerable grade work.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design	\$ 300,000		\$ 500,000				
Construction			\$ 5,000,000				
Total	\$ 300,000	\$ -	\$ 5,500,000	\$ -	\$ -	\$ -	\$ 5,800,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Sewer	\$ 231,000		\$ 4,235,000				
Navy	\$ 69,000		\$ 1,265,000				
Total	\$ 300,000	\$ -	\$ 5,500,000	\$ -	\$ -	\$ -	\$ 5,800,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: 24" and 18" RAS Valves
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/30/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 09/30/22
Project Estimate: \$ 300,000
Project Funding to Date: \$ -

Project Description/Justification:

The return activated sludge valves at headworks are past their useful life and are barely operable. They will require significant equipment to replace.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design		\$ 25,000					
Construction		\$ 175,000					
Total	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
City		\$ 154,000					
Navy		\$ 46,000					
Total	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Admin Fire System
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 07/12/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 09/30/22
Project Estimate: \$ 150,000
Project Funding to Date: \$ -

Project Description/Justification:

The administration building that houses all the computers and controls including logged data does not have a fire suppression system.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design		\$ 15,000					
Construction		\$ 135,000					
Total	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
City		\$ 115,500					
Navy		\$ 34,500					
Total	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Admin Building Interior Renovation
Location: WWTP
Department: Sewer
Account No: 401-3504-535-6500

Date: 04/30/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 09/30/22
Project Estimate: \$ 250,000
Project Funding to Date: \$ -

Project Description/Justification:

The interior of the admin building at the treatment plant has never been updated. The floors, walls, furniture, bathroom tile and lockers, fixtures, and lighting are all original and need of renovation.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design		\$ 30,000					
Construction		\$ 220,000					
Total	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Funding Source Summary

Phase	Funded	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
401		\$ 192,500					
Navy		\$ 57,500					
Total	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 250,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Odor Control Upgrades
Location: Misc. Pump Stations
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 07/11/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 08/15/22
Project Estimate: \$ 100,000
Project Funding to Date: \$ -

Project Description/Justification:

The odor control systems on the pump stations are instrumental in filtering the air to eliminate odor from the stations leaking into the neighborhood. The systems in place are in need of upgrade or replacement. There will not be design involved with this project. The parts will be ordered and installed with OMI and City staff.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design							
Construction		\$ 100,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
City		\$ 93,000					
Navy		\$ 7,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

CITY OF KEY WEST
FY 1/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Pump Station D Generator
Location: Seminary/Thompson
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 04/30/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 09/30/22
Project Estimate: \$ 300,000
Project Funding to Date: \$ -

Project Description/Justification:

Pump Station D is one of the City's 6 largest volume wastewater stations. The back-up generator at this station is over 20 years old. The generator has become unreliable costing excessive maintenance cost and time.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design		\$ 40,000					
Construction		\$ 260,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
City		\$ 279,000					
Navy		\$ 21,000					
Total	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Pump Station Rehab Phase 4
Location: Various Stations
Department: Sewer
Account No: 401-3503-535-6500

Date: 07/11/21
Contact: JP Castro
Project Start: 12/01/21
Project Complete: 03/15/23
Project Estimate: \$ 1,750,000
Project Funding to Date: \$ -

Project Description/Justification:

In 2015 the city developed a pump station rehab plan from a list station assessment conducted by CH2M. The 10 year plan has went through phase 3. Phase 4 will be developed by the remaining necessary station(s) and scoped to budget.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
Design		\$ 200,000	\$ 1,550,000				
Construction							
Total	\$ -	\$ 200,000	\$ 1,550,000	\$ -	\$ -	\$ -	\$ 1,750,000

Funding Source Summary

Phase	Funded	FY 21/22	FY 22/23	FY 23/24	FY 24/25	FY 25/26	
401		\$ 186,000	\$ 1,441,500				
Navy		\$ 14,000	\$ 108,500				
Total	\$ -	\$ 200,000	\$ 1,550,000	\$ -	\$ -	\$ -	\$ 1,750,000

CITY OF KEY WEST
FY 21/22 CIP PROJECT DETAIL

Project No: TBD
Project Name: Storm Roll Up Doors
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/30/21
Contact: JP Castro
Project Start: 10/01/21
Project Complete: 09/30/22
Project Estimate: \$ 100,000
Project Funding to Date: \$ -

Project Description/Justification:

There are 2 storm rated roll up doors on the solids building that have corroded to the point operation of the doors is nearly impossible. They are 30 years old.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
Design							
Construction		\$ 100,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY 21/22	FY 22/23	FY 24/25	FY 25/26	FY 24/25	
City		\$ 77,000					
Navy		\$ 23,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000