

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No:	SE1504
Project Name:	Lift Station Rehab - Phase 1 & 2
Location:	Various Lift Stations
Department:	401 Sewer
Account No:	401-3504-535-6500

Date:	<u>04/27/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>10/01/16</u>
Project Complete:	<u>05/01/25</u>
Project Estimate:	<u>\$ 10,000,000</u>
Project Funding to Date:	<u>\$ 2,700,000</u>

Project Description/Justification:

In 2014 CH2M finalized a lift station assessment of all 26 City sanitary lift stations. The estimated budget to keep the lift stations in good working order is approximately \$10,000,000 over the next 10 years. The immediate needs include various pumps and valves at different stations and a complete rehabilitation of Lift Station "H."

Reasons for Funding Modification (if applicable):

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Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 300,000						
Construction	\$ 2,400,000						
Total	\$ 2,700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,700,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23
City	\$ 2,565,000					
Navy	\$ 135,000					
Total	\$ 2,700,000	\$ -	\$ -	\$ -	\$ -	\$ -

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: SE35031701
Project Name: Effluent Pump FP 3-1 Control
Location:
Department: Utilities - Sewer
Account No: 401-3503-535-6300

Date: 07/16/18
Contact: JP Castro
Project Start: 12/01/16
Project Complete: 09/30/19
Project Estimate: \$ 56,356
Project Funding to Date: \$ 56,356

Project Description/Justification:

Design, FP-3-1- PLC to run the effluent pumps.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 56,356						
Construction							
Total	\$ 56,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,356

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 56,356						
Total	\$ 56,356	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 56,356

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

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

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>05/15/17</u>
Project Complete:	<u>09/30/19</u>
Project Estimate:	<u>\$ 750,000</u>
Project Funding to Date:	<u>\$ 750,000</u>

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	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 100,000						
Construction	\$ 650,000						
Total	\$ 750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 577,500						
Navy	\$ 172,500						
Total	\$ 750,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: SE35031802
Project Name: Directional Bore Influent Force Main
Location: Fleming Key Bridge
Department: Utilities - Sewer
Account No: 401-3503-535-6500

Date: 07/16/18
Contact: JP Castro
Project Start: 11/01/17
Project Complete: 09/30/19
Project Estimate: \$ 2,330,000
Project Funding to Date: \$ 380,000

Project Description/Justification:

This project relocates the influent force main over the Fleming Key bridge 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):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 380,000						
Construction		\$ 1,950,000					
Total	\$ 380,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ -	\$ 2,330,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 292,600	\$ 1,501,500					
Navy	\$ 87,400	\$ 448,500					
Total	\$ 380,000	\$ 1,950,000	\$ -	\$ -	\$ -	\$ -	\$ 2,330,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No:	SE35031803
Project Name:	Lift Station "E" Generator
Location:	Lift Station "E" Generator
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>10/01/17</u>
Project Complete:	<u>09/30/19</u>
Project Estimate:	<u>\$ 250,000</u>
Project Funding to Date:	<u>\$ 250,000</u>

Project Description/Justification:

Replace generator passed its useful life.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 35,000						
Construction	\$ 215,000						
Total	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 237,500						
Navy	\$ 12,500						
Total	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No:	SE35031804
Project Name:	Sanitary Sewer Modeling
Location:	WWTP
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>10/01/17</u>
Project Complete:	<u>09/30/18</u>
Project Estimate:	<u>\$ 300,000</u>
Project Funding to Date:	<u>\$ 300,000</u>

Project Description/Justification:

The City is lacking up to date historical documentation and modeling of the sanitary sewer system. Modeling would be invaluable to City staff and all future engineering efforts for replacement and rehabilitation of the system. The project will provide deliverables including GIS data for google overlay of all 40 miles of pipe and accurate flow monitoring for wet and dry weather.

Reasons for Funding Modification (if applicable):

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Operating Impact:

Related Projects:

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Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 300,000						
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 282,000						
Navy	\$ 18,000						
Total	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No:	SE35031805
Project Name:	Lift Station "A" Generator
Location:	Lift Station "A" Generator
Department:	Utilities - Sewer
Account No:	401-3503-535-6500

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>04/15/17</u>
Project Complete:	<u>09/30/19</u>
Project Estimate:	<u>\$ 350,000</u>
Project Funding to Date:	<u>\$ 350,000</u>

Project Description/Justification:

The generator for lift station "A" is past it's useful life, 1986 model, and needs to be replaced. The new generator will require design to bring the foundation up to current wind and FEMA codes. The generator will also require sound attenuation.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 50,000						
Construction	\$ 300,000						
Total	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 332,500						
Navy	\$ 17,500						
Total	\$ 350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No:	SE35041701
Project Name:	Repair at Deep Well 1
Location:	WWTP
Department:	Utilities - Sewer
Account No:	401-3504-535-6500

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>10/01/17</u>
Project Complete:	<u>09/30/19</u>
Project Estimate:	<u>\$ 150,000</u>
Project Funding to Date:	<u>\$ 150,000</u>

Project Description/Justification:

The flange at the base of the deep injection well number 1 has sprung 2 leaks. The leak repair will have to be designed and the well head will have to be removed with a crane to be fixed.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 15,000						
Construction	\$ 135,000						
Total	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Sewer	\$ 34,500						
Navy	\$ 115,500						
Total	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: SE35041801
Project Name: WWTP Energy Efficiency Master Plan
Location: WWTP
Department: Utilities - Sewer
Account No: 401-3504-535-3100

Date:	<u>07/16/18</u>
Contact:	<u>JP Castro</u>
Project Start:	<u>10/01/17</u>
Project Complete:	<u>09/30/19</u>
Project Estimate:	<u>\$ 80,000</u>
Project Funding to Date:	<u>\$ 80,000</u>

Project Description/Justification:

Assessment to create an energy efficiency master plan for the wastewater treatment plan. The City's WWTP is one of the largest electricity users in all of Key West - Approx. \$450,000 annually.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design	\$ 80,000						
Construction							
Total	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23
Sewer	\$ 61,600					
Navy	\$ 18,400					
Total	\$ 80,000	\$ -	\$ -	\$ -	\$ -	\$ -

\$ 80,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: TBD
Project Name: Compressor Deep Well Hydro Tank
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/18
Project Complete: 09/30/19
Project Estimate: \$ 100,000
Project Funding to Date: \$ -

Project Description/Justification:

The compressor that maintains pressure on the deep well is past its useful life and needs to be replaced. The compressor keeps pressure on a separate tank connected to the wells so that when the deep well pumps kick on there is not a rapid increase in pressure on the system.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Construction		\$ 100,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ 77,000					
Navy		\$ 23,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: TBD
Project Name: Lift Station Rehab - Phase 3
Location: WWTP
Department: 401 Sewer
Account No: 401-3503-535-6500

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/18
Project Complete: 08/15/19
Project Estimate: \$ 1,000,000
Project Funding to Date: \$ -

Project Description/Justification:

Third Phase of the 10 year lift station rehabilitation project from the 2015 system assessment by CH2M Hill Engineers.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design		\$ 200,000					
Construction		\$ 800,000					
Total	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ 940,000	\$ -				
Navy		\$ 60,000	\$ -				
Total	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: TBD
Project Name: New Blower for Solids Storage Tank
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/18
Project Complete: 09/30/19
Project Estimate: \$ 100,000
Project Funding to Date: \$ -

Project Description/Justification:

Design and installation of a new blower and an additional blower for the solids storage tank at the WWTP. The existing blower is at the end of it's useful life and is an old design which uses more power than new units.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Construction		\$ 80,000					
Design		\$ 20,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ 77,000					
Navy		\$ 23,000					
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

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

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/19
Project Complete: 08/15/21
Project Estimate: \$ 1,250,000
Project Funding to Date: \$ -

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 past their useful life.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design			\$ 250,000				
Construction		\$ -		\$ 1,000,000			
Total	\$ -	\$ -	\$ 250,000	\$ 1,000,000	\$ -	\$ -	\$ 1,250,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ -	\$ 192,500	\$ 770,000			
Navy		\$ -	\$ 57,500	\$ 230,000			
Total	\$ -	\$ -	\$ 250,000	\$ 1,000,000	\$ -	\$ -	\$ 1,250,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: TBD
Project Name: Replace Sludge Conveyor
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/18
Project Complete: 09/30/19
Project Estimate: \$ 500,000
Project Funding to Date: \$ -

Project Description/Justification:

Conveyor belts and system are original to the plant, over 20 years old, and past their useful life.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Construction		\$ 500,000					
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ 385,000					
Navy		\$ 115,000					
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

CITY OF KEY WEST
FY 18/19 CIP PROJECT DETAIL

Project No: TBD
Project Name: Third Effluent Pump
Location: WWTP
Department: 401 Sewer
Account No: 401-3504-535-6500

Date: 04/27/18
Contact: JP Castro
Project Start: 10/01/18
Project Complete: 08/15/20
Project Estimate: \$ 1,200,000
Project Funding to Date: \$ -

Project Description/Justification:

Add third effluent pump into existing platform. This will allow cycling pumps for increased efficiency, addition of a more efficient pump, redundancy when an existing pump goes down.

Reasons for Funding Modification (if applicable):

Operating Impact:

Related Projects:

Project Phase Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Design		\$ 200,000					
Construction		\$ -	\$ 1,000,000				
Total	\$ -	\$ 200,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,200,000

Funding Source Summary

Phase	Committed	FY18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
City		\$ 154,000	\$ 770,000				
Navy		\$ 46,000	\$ 230,000				
Total	\$ -	\$ 200,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,200,000