# CITY OF CORAL GABLES FISCAL YEAR 2023-2027 FIVE YEAR CAPITAL IMPROVEMENT PLAN PROJECT SUMMARY & FUNDING SOURCES: SANITARY SEWER & STORMWATER

#### UTLITY REPAIRS/IMPROVEMENT PROJECT PARAMETERS

This section covers Sanitary Sewer and Storm Water system improvements. The Sanitary Sewer system projects address the needs of repairing or renovating of 34 pump stations, 1,400 manholes and 64 lineal miles of sewer mains. The Storm Water system projects address storm water runoff and drainage conditions that impact local roads and other areas.

#### **UTLITY REPAIRS/IMPROVEMENT PROJECTS BY YEAR**

					FIVE-YEAR	R ESTIMATE				FIVE-YEAR
PAGE	PROJECT			23						PROJECT
#	NAME	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
223	Sanitary Sewer Major Repairs	\$ 1,009,041	\$ 1,105,208	\$ 1,859,320	\$ 3,973,569	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$ 11,410,849
225	Sanitary Sewer Volume Ordinance	971	31,697	-	32,668	-	-	-	-	32,668
226	Force Main Replacement Program	11,411,133	3,920,657	-	15,331,790	-	-	-	-	15,331,790
227	Citywide Inflow & Infiltration Abatement	11,952	3,972	955,000	970,924	500,000	500,000	500,000	500,000	2,970,924
229	Station D Rehabilitation	96,195	1,203,805	-	1,300,000	-	-	-	-	1,300,000
231	Station E Rehabilitation	247	1,482	-	1,729	-	-	-	-	1,729
233	Station F Rehabilitation	-	124,506	-	124,506	-	-	-	-	124,506
235	Cocoplum Pump Station 1 Upgrade	78,569	-	-	78,569	-	-	-	-	78,569
	City 2 Basin Gravity Sewer Improvement									
236	Phase II	443,904	9,250	-	453,154	-	-	-	-	453,154
237	Leucadendra 2 Pump Station Rehab.	1,492	431	-	1,923	-	-	-	-	1,923
239	Pump Station Remote Monitoring Sanitary Sewer Electronic Atlas Update	658,161	293,660	-	951,821	-	-	-	-	951,821
241	and Model Calibration	94,516	-	50,000	144,516	50,000	50,000	50,000	50,000	344,516
243	Sewer Pipe Cameras	1,329	2,892	50,000	54,221	5,000	5,000	5,000	5,000	74,221
	Citywide Septic to Sewer Conversion	.== ===								
244	Assessment Stormwater System Improvement	173,530	16,370	562,500	752,400	187,500	-	-	-	939,900
245	Program	1,053,175	399,177	300,000	1,752,352	300,000	300,000	275,000	250,000	2,877,352
247	Storm Drainage Master Plan	500,000	1	500,000	1,000,000	-	-	-	-	1,000,000
249	Cross-Connection Removal	269,833	188,311	-	458,144	100,000	100,000	100,000	100,000	858,144
251	Cocoplum Drainage Improvements	945,110	21,454	350,000	1,316,564	150,000	-	-	-	1,466,564
253	Canal Bank Stabilization	565,362	28,281	-	593,643	-	-	-	-	593,643
255	Sea Level Rise Mitigation Program	13,063,264		3,670,000	16,733,264	4,115,000	4,560,000	5,005,000	5,005,000	35,418,264
257	Stormwater Outfall Baffles	110,000		-	110,000	-	-	-	-	110,000
259	Coral Gables Waterways Maintenance	2,113,487	67,046	150,000	2,330,533	150,000	300,000	325,000	350,000	3,455,533
260	Coruna Canal Salinity Berm Rehabilitation	60,000	-	-	60,000	-	-	-	-	60,000
261	Sunrise Harbor Drainage/Repair Assessment	10,975	11,311	_	22,286	100,000	100,000	100,000	100,000	422,286
	TOTAL	\$ 32,672,246	\$ 7,429,510	\$ 8,446,820	\$ 48,548,576	\$ 7,516,820	\$ 7,774,320	\$ 8,219,320	\$ 8,219,320	\$ 80,278,356

# CITY OF CORAL GABLES FISCAL YEAR 2023-2027 FIVE YEAR CAPITAL IMPROVEMENT PLAN PROJECT SUMMARY & FUNDING SOURCES: SANITARY SEWER & STORMWATER

#### UTLITY REPAIRS/IMPROVEMENT PROJECT PARAMETERS

This section covers Sanitary Sewer and Storm Water system improvements. The Sanitary Sewer system projects address the needs of repairing or renovating of 34 pump stations, 1,400 manholes and 64 lineal miles of sewer mains. The Storm Water system projects address storm water runoff and drainage conditions that impact local roads and other areas.

#### **UTLITY REPAIRS/IMPROVEMENT PROJECTS BY FUNDING SOURCE**

						FIVE-YEAR
PROJECT	SANITARY	STORM	SUN STATE	GEN CAP	STATE	PROJECT
NAME	SEWER	WATER	FINANCING	IMPR	GRANT	TOTAL
Sanitary Sewer Major Repairs	\$ 11,410,849	\$ -	\$ -	\$ -	\$ -	11,410,849
Sanitary Sewer Volume Ordinance	32,668	-	-	-	-	32,668
Force Main Replacement Program	1,540,202	-	13,791,588	-	-	15,331,790
Citywide Inflow & Infiltration Abatement	2,465,499	-	5,425	-	500,000	2,970,924
Station D Rehabilitation	1,300,000	-	-	-	-	1,300,000
Station E Rehabilitation	1,729	-	-	-	-	1,729
Station F Rehabilitation	124,506	-	-	-	-	124,506
Cocoplum Pump Station 1 Upgrade	78,569	-	-	-	-	78,569
City 2 Basin Gravity Sewer Improvement P	453,154	-	-	-	-	453,154
Leucadendra 2 Pump Station Rehab.	1,923	-	-	-	-	1,923
Pump Station Remote Monitoring	951,821	-	-	-	-	951,821
Sanitary Sewer Electronic Atlas Update an	344,516	-	-	-	-	344,516
Sewer Pipe Cameras	74,221	-	-	-	-	74,221
Citywide Septic to Sewer Conversion Assessment	49,900	-	1	515,000	375,000	939,900
Stormwater System Improvement Program	-	2,528,183	-	150,000	199,169	2,877,352
Storm Drainage Master Plan	-	500,000	-	-	500,000	1,000,000
Cross-Connection Removal	-	858,144	-	-	-	858,144
Cocoplum Drainage Improvements		1,466,564	-	-	-	1,466,564
Canal Bank Stabilization	-	129,061	-	309,785	154,797	593,643
Sea Level Rise Mitigation Program		35,418,264	-	-	-	35,418,264
Stormwater Outfall Baffles		110,000	-	-	-	110,000
Coral Gables Waterways Maintenance	-	2,555,533	-	-	900,000	3,455,533
Coruna Canal Salinity Berm Rehabilitation	-	60,000	-	-	-	60,000
Sunrise Harbor Drainage/Repair						
Assessment	-	419,721	-	-	2,565	422,286
TOTAL	\$ 18,829,557	\$ 44,045,470	\$ 13,797,013	\$ 974,785	\$ 2,631,531	\$ 80,278,356

#### RELATED OPERATING COST FOR UTLITY REPAIRS/IMPROVEMENT PROJECTS

		FIVE-YEAR ESTIMATE				
EXPENSE TYPE	2023	2024	2025	2026	2027	PROJECT TOTAL
Sewer Pipe Cameras						
Personnel Services	-	-	-	-	-	-
Other Than Personnel Services	15,000	15,000	15,000	15,000	15,000	75,000
Stormwater Outfall Baffles						
Personnel Services	-	-	-	-	-	-
Other Than Personnel Services	10,000	10,000	10,000	10,000	10,000	50,000
TOTAL RELATED OPERATING COST	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

PROJECT NAME:	Sanitary Sewer Major Repairs		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-sanimtrx
PRIORITY TYPE:	General Repair	NAME:	C-Saillillerx

#### DESCRIPTION

The project encompasses the repair and improvements of various sanitary sewer infrastructure components citywide that are critical to the daily operation of the sanitary sewer utility. These repairs include point repairs to various sanitary force mains and gravity mains as needed and replacement of valves and check valves at various points along the system.

#### JUSTIFICATION

Various pump stations citywide have reached their useful operating life. Many of the components need to be upgraded and modernized to increase reliability.

PROJEC	T ESTIMATES				
		HISTORICAL EXPENSES			
		PRIOR YRS	2022		
	PHASE/FACILITY	EXPENSES	EXPENSES		
General D	esign	\$ 718,229	\$ 12,596		
General C	onstruction	2,253,346	227,222		
TOT	AL PROJECT	\$ 2,971,575	\$ 239,818		

	FIVE-YEAR ESTIMATE								FIVE-YEAR
2023							PROJECT		
PR	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	16,050	\$ 37,791	\$ -	\$ 53,841	\$ -	\$ -	\$ -	\$ -	\$ 53,841
	992,991	1,067,417	1,859,320	3,919,728	1,859,320	1,859,320	1,859,320	1,859,320	11,357,008
				-					-
									-
\$	1,009,041	\$ 1,105,208	\$ 1,859,320	\$ 3,973,569	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$11,410,849

FUNDIN	IG SOURCE		
		HISTORICA	L EXPENSES
FUND	FUNDING	PRIOR	2022
#	TYPE	FUNDING	FUNDING
410	Sanitary Sewer	\$ 2,927,355	\$ 239,038
410	Dept of Emergency Managen	44,220	780
тот	AL FUNDING	\$ 2,971,575	\$ 239,818

	FIVE-YEAR ESTIMATE								
		202	23						PROJECT
PF	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	1,009,041	\$ 1,105,208	\$ 1,859,320	\$ 3,973,569	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$11,410,849
	-	-	=	-	=	=	-	-	-
									-
				-					-
				-					-
\$	1,009,041	\$ 1,105,208	\$ 1,859,320	\$ 3,973,569	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$ 1,859,320	\$11,410,849

		T
FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	5
	·	
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	T

	FIVE-YEAR ESTIMATE								
2023	2023 2024 2025 2026 2027 TOTAL								
					\$ -				
					-				
					-				
					-				
					-				
-	-	-	-	-	-				
					\$ -				
					-				
					-				
					-				
					-				
-	-	-	-	-	-				
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				

PROJECT NAME:	Sanitary Sewer Repairs - Dade County Ordinance		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-sani-vol
PRIORITY TYPE:	Regulatory	NAME:	C-Salli-VOI

#### DESCRIPTION

The Miami-Dade County has signed a new Consent Decree with the FDEP, USEPA and the US Department of Justice requiring the County to make changes to its sanitary sewer operating practices in order to insure compliance with State and Federal codes for the operation of sanitary sewer collection systems. This request will be use for the implementation of the proposed Volume Sewer Customer Ordinance Amendments under the Miami-Dade County Consent Decree.

#### JUSTIFICATION

As a result of the new EPA Consent Decree, effective date December 6, 2013, all utility volume sewer customers (VSC) in Miami-Dade County are required to provide a Plan of Compliance documenting how they will comply with the new requirements of the Consent Decree.

PROJEC	T ESTIMATES					
		HISTORICA	HISTORICAL EXPENSES			
		PRIOR YRS		2022		
	PHASE/FACILITY	EXPENSES	E	KPENSES		
General D	esign	\$ 1,135,078	\$	95,993		
General C	onstruction	513,198		6,000		
TOT	AL PROJECT	\$ 1.648.276	Ś	101.993		

FIVE-YEAR ESTIMATE								
2023								PROJECT
PR YR AVAIL	OPEN P.O	. NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$ -	\$ 26,584	. \$ -	\$ 26,584	\$ -	\$ -	\$ -	\$ -	\$ 26,584
971	5,113	-	6,084	=	-	=	=	6,084
			-					-
			=					-
\$ 971	\$ 31,697	\$ -	\$ 32,668	\$ -	\$ -	\$ -	\$ -	\$ 32,668

FUNDIN	IG SOURCE					
		HISTORICAL EXPENSES				
FUND	FUNDING	PRIOR	2022			
#	TYPE	FUNDING	FUNDING			
410	Sunshine State Financing	\$ 1,608,176	\$ 20,315			
410	Sanitary Capacity Fee	40,100	81,678			
TO1	TAL FUNDING	\$ 1,648,276	\$ 101,993			

	FIVE-YEAR ESTIMATE									F۱۱	/E-YEAR				
	2023							P	ROJECT						
PR	YR AVAIL	OP	EN P.O.		NEW		T	OTAL		2024	2025	2026	2027		TOTAL
\$	871	\$	28,639	\$		-	\$	29,510	\$	-	\$ -	\$ -	\$ =	\$	29,510
	100		3,058			-		3,158		-	-	-	=		3,158
															-
								-							-
\$	971	\$	31,697	\$		- [	\$	32,668	\$	-	\$ -	\$ -	\$ -	\$	32,668

FUND	FUNDING	OPERATING EXPENSE					
#	TYPE	TYPE					
PERSON	AL SERVICES						
TOTAL P	ERSONNEL						
OTHER T	HAN PERSONAL SERVICES	5					
TOTAL O	THER THAN PERSONNEL						
TOTAL R	TOTAL RELATED OPERATING COST						

		FIVE-YEAR I	STIMATE							
2023	2024	2025	2026	2027	PROJECT TOTAL					
					\$ -					
					-					
					-					
					-					
					-					
-	-	-	-	-	-					
					\$ -					
					-					
					-					
					=					
					-					
-	-	-	-	-	-					
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					

PROJECT NAME:	orce Main Replacement Program						
REQUESTING DEPARTMENT	Public Works						
PROJECT LOCATION:	Citywide						
PROJECT TYPE:	Sanitary Sewer Improvements	PROJECT ACCOUNTING	c forcongm				
PRIORITY TYPE:	General Repair	NAME:	c-forcepgm				

#### DESCRIPTION

The Sanitary Sewer Force Main Replacement Program is a multi-faceted program developed to facilitate the continued operation and maintenance of the City's force main transmission system. The program is in compliance with the Miami-Dade Consent Decree and designed to support the goal of eliminating or reducing sanitary sewer overflows. 'The first leg of this project involves the replacement of 4,650 LF of 20-inch sanitary sewer force main from Ponce Rd and SW 72nd St, north on Ponce Rd to Alhambra Circle South, then east and north along Alhambra Circle South to Ponce de Leon Blvd.

#### JUSTIFICATION

PROJECT ESTIMATES

Station E Force Main
Station F Force Main

University Drive/Cadima Force Main

TOTAL PROJECT

This project aligns with the City's "Customer-focused Excellence" goal to "Provide exceptional services that meet or exceed the requirements and expectations of our community." These improvements will enhance the area's sanitary sewer system. The replacement is necessary as the existing force main has reached the end of its useful life. In addition, this is necessary to improve reliability and functionality of the line and to ensure compliance with Miami-Dade County's consent decree. The City of Coral Gables is a Volume Sewer Customer and is therefore bound by the Volume Sewer Customer Ordinance.

	HISTORICA	L EXPENSES
	PRIOR YRS	2022
PHASE/FACILITY	EXPENSES	EXPENSES
South Alhambra Force Main	\$ 4,294	\$ 1,191,799
Campana/Rovino Force Main	-	46,817
City 2 Force Main	-	33,055
City 3 Force Main	-	139,935
City 6 Force Main	-	-
Cocoplum 3 Force Main	40,002	1,432
Journey's End Force Main	-	-
Ponce De Leon/Granada Force Main	_	24 141

FIVE-YEAR ESTIMATE									
	202	3						PROJECT	
PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL	
\$ 402,569	\$ 665,250	\$ -	\$ 1,067,819	\$ -	\$ -	\$ -	\$ -	\$ 1,067,819	
-	136,768	-	136,768	-	-	-	-	136,768	
2,085,857	367,088	-	2,452,945	-	-	-	-	2,452,945	
2,821,918	148,147	-	2,970,065	-	-	-	-	2,970,065	
-	85,038	-	85,038	-	-	-	-	85,038	
35,911	758,297	,	794,208	1	,	1	,	794,208	
118,644	796,810	-	915,454	-	-	-	-	915,454	
5,192,909	332,950	-	5,525,859	-	-	-	-	5,525,859	
51,545	572,455	-	624,000	-	-	-	-	624,000	
128,000	-	-	128,000	-	-	-	-	128,000	
573,780	57,854	-	631,634	-	-	1	-	631,634	
\$ 11,411,133	\$ 3,920,657	\$ -	\$15,331,790	\$ -	\$ -	\$ -	\$ -	\$ 15,331,790	

FUNDIN	IG SOURCE				
		HISTORICAL EXPENS			
FUND	FUNDING		PRIOR	2022	
#	TYPE	FU	JNDING	FUNDING	
410	Sunshine State Financing	\$	4,294	\$ 1,454,118	
410	Sanitary Sewer		40,002	892	
TOT	TAL FUNDING	\$	44,296	\$ 1,455,010	

17.831

44,296 \$ 1,455,010

	FIVE-YEAR ESTIMATE								FIVE-YEAR
	2023								PROJECT
P	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	11,292,489	\$ 2,499,099	\$ -	\$13,791,588	\$ -	\$ -	\$ -	\$ -	\$ 13,791,588
	118,644	1,421,558	-	1,540,202	-	-	-	-	1,540,202
				-					-
				-					-
\$	11,411,133	\$ 3,920,657	\$ -	\$15,331,790	\$ -	\$ -	\$ -	\$ -	\$ 15,331,790

FUND #	FUNDING TYPE	OPERATING EXPENSE TYPE						
PERSON	AL SERVICES							
_	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES							
TOTAL O	TOTAL OTHER THAN PERSONNEL							
TOTAL R	TOTAL RELATED OPERATING COST							
-								

		FIVE-YEAR I	ESTIMATE		
2023	2024	2027	PROJECT TOTAL		
					\$ -
					-
					-
					-
					-
ı	-	-	-		-
					\$ -
					-
					-
					-
					-
1	-	1	1	1	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Citywide Inflow & Infiltration Abatement	ywide Inflow & Infiltration Abatement						
REQUESTING DEPARTMENT	Public Works							
PROJECT LOCATION:	Citywide Inflow & Infiltration Repairs	wide Inflow & Infiltration Repairs						
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-infl&inf					
PRIORITY TYPE:	Regulatory	NAME:	C-IIIIQIIII					

#### DESCRIPTION

The City is currently investing in the sanitary sewer infrastructure conveyance systems. Part of this investment has the goal of eliminating groundwater inflow and stormwater infiltration into the City sewer system. This is mostly occurring in areas where the gravity main piping has become compromised to the point that ground water is not seeping into the system. This causes the City to pump water to the County collection system which exponentially increases the City's cost by unnecessarily conveying large amounts of ground water instead of sewage. The City has been replacing ductile iron pipes with HDPE piping as well as slip lining pipes. These sewer improvements will reduce more than 20% of inflow and infiltration in the years to follow. This will reduce operation and maintenance costs, sewer backups incidents and resident complaints.

#### JUSTIFICATION

Repairs to the City's sanitary sewer system to reduce inflow and infiltration are required on an on-going basis to ensure compliance with Miami Dade County Code Section 24-42.2. By limiting inflow and infiltration into the sewer system, the City realizes a cost savings of reducing the volume of wastewater entering the sanitary sewer system. Another benefit is the additional capacity available due to the reduced flow.

PROJEC	T ESTIMATES			
		\$ 262,416 \$		
		PRIOR YRS	2022	
	PHASE/FACILITY	EXPENSES	EXPENSES	
General D	esign	\$ 262,416	\$ -	
General C	onstruction	4,499,544	123,519	
TOT	AL PROJECT	\$ 4,761,960	\$ 123,519	

	FIVE-YEAR ESTIMATE										
	2023								PROJECT		
F	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL		
\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	11,952	3,972	955,000	970,924	500,000	500,000	500,000	500,000	2,970,924		
									-		
									-		
\$	11,952	\$ 3,972	\$ 955,000	\$ 970,924	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,970,924		

FUNDIN	IG SOURCE					
		HISTORICAL EXPENSES				
FUND	FUNDING	PRIOR	2022			
#	TYPE	FUNDING	FUNDING			
410	Sanitary Sewer	\$ 2,857,511	\$ 123,519			
410	Sunshine State Financing	1,504,449	-			
410	Grant - State (Other)	400,000	-			
тот	AL FUNDING	\$ 4,761,960	\$ 123,519			

	FIVE-YEAR ESTIMATE											FIVE-YEAR		
	2023									PROJECT				
ı	PR YR AVAIL	OPEN	P.O.		NEW	Ī	TOTAL		2024		2025	2026	2027	TOTAL
\$	8,315	\$ :	2,184	\$	455,000	\$	465,499	\$	500,000	\$	500,000	\$ 500,000	\$ 500,000	\$ 2,465,499
	3,637	:	1,788		-		5,425		-		-	-	-	5,425
	-		-		500,000		500,000		-		-	-	-	500,000
							-		-		-	-	-	-
\$	11,952	\$ 3	3,972	\$	955,000	\$	970,924	\$	500,000	\$	500,000	\$ 500,000	\$ 500,000	\$ 2,970,924

FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICE	S
TOTAL O	THER THAN PERSONNEL	•
TOTAL R	ELATED OPERATING COST	Г

		FIVE-YEAR I	STIMATE		
2023	2024	2025	2027	PROJECT TOTAL	
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Pump Station D Rehabilitation	mp Station D Rehabilitation						
REQUESTING DEPARTMENT	Public Works							
PROJECT LOCATION:	7557 Los Pinos Boulevard	57 Los Pinos Boulevard						
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-stationd					
PRIORITY TYPE:	Regulatory	NAME:	c-stationu					

#### DESCRIPTION

The improvements proposed include the installation of new pump units and support structures as well as enhancements to the station's instrumentation, control systems and back-up emergency generator.

#### JUSTIFICATION

Sanitary sewer flows received by the Station D will be re-routed after the Cocoplum 1 pump station and FM project is completed therefore the hydraulics of the station will be reduced. In addition that many pump components need to be upgraded and modernized; a complete rehabilitation of the station is proposed to increase reliability and comply with regulatory standards. The Project aligns with the City's Strategic Plan Objectives to optimize city processes and operation to provide cost-effective services and to provide exceptional services that enhance local and environmental quality.

PROJEC	T ESTIMATES				
		н	STORICA	L EX	PENSES
		PF	RIOR YRS	2022	
	PHASE/FACILITY	E	(PENSES	EX	PENSES
General D	esign	\$	43,340	\$	6,410
General C	onstruction		663,268		-
TOI	TOTAL PROJECT		706.608	Ś	6.410

	FIVE-YEAR ESTIMATE										
		202	23						PROJECT		
PR'	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL		
\$	50,250	\$ -	\$ -	\$ 50,250	\$ -	\$ -	\$ -	\$ -	\$ 50,250		
	45,945	1,203,805	=	1,249,750	-	-	-	-	1,249,750		
				-					-		
				-					-		
\$	96,195	\$ 1,203,805	\$ -	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000		

FUNDIN	IG SOURCE						
		HISTORICAL EXPENSES					
FUND	FUNDING		PRIOR		2022		
#	TYPE	FU	UNDING	FUNDING			
410	Sanitary Sewer	\$	706,608	\$	6,410		
тот	AL FUNDING	\$	706,608	\$	6,410		

	FIVE-YEAR ESTIMATE										
	2023							PROJECT			
PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL			
\$ 96,195	\$ 1,203,805	\$ -	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000			
			-					-			
			-					=			
			-					-			
\$ 96,195	\$ 1,203,805	\$ -	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000			

FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	

FIVE-YEAR ESTIMATE												
2023	2024	2024 2025 2026 2027 TOTAL										
					\$ -							
					-							
					-							
					-							
					-							
-	-	-	-	-	-							
	1											
					\$ -							
					-							
					-							
					-							
					-							
-	-	-	-	-	-							
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -							

PROJECT NAME:	Pump Station E Renovation		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	25 West Sunrise Avenue		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-statione
PRIORITY TYPE:	Regulatory	NAME:	c-statione

#### DESCRIPTION

The improvements proposed include the installation of new pump units and support structures as well as enhancements to the station's instrumentation and control system.

#### JUSTIFICATION

The station is nearing the end of its useful operating life. Many of the components of this station need to be upgraded and modernized to increase reliability.

PROJEC	T ESTIMATES				
		HISTORICAL EXPENSES			
		PF	RIOR YRS		2022
	PHASE/FACILITY	EX	KPENSES	EX	PENSES
General D	esign	\$	-	\$	-
General C	onstruction	176,390 2		20,628	
TO1	TOTAL PROJECT		176,390	\$	20,628

FIVE-YEAR ESTIMATE								
	202	3						PROJECT
PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
247	1,482	-	1,729		-	-	-	1,729
								-
								-
\$ 247	\$ 1,482	\$ -	\$ 1,729	\$ -	\$ -	\$ -	\$ -	\$ 1,729

FUNDIN	IG SOURCE				
		Н	ISTORICA	L EX	PENSES
FUND	FUNDING	PRIOR			2022
#	TYPE	FI	UNDING	FL	INDING
410	Sanitary Sewer	\$	176,390	\$	20,628
TO1	AL FUNDING	\$	176,390	\$	20,628
		$\overline{}$			

Į	FIVE-YEAR ESTIMATE									
I	2023							PROJECT		
	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL	
I	\$ 247	\$ 1,482	\$ -	\$ 1,729	\$ -	\$ -	\$ -	\$ -	\$ 1,729	
ſ				-					-	
ſ				-					-	
I				-					-	
I	\$ 247	\$ 1,482	\$ -	\$ 1,729	\$ -	\$ -	\$ -	\$ -	\$ 1,729	

FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	5
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	

FIVE-YEAR ESTIMATE											
2023	2024	PROJECT TOTAL									
					\$ -						
					-						
					-						
					-						
					-						
•	-	-	-	-	-						
					\$ -						
					-						
					=						
					=						
					-						
-	-	-	-	-	-						
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						

PROJECT NAME:	ump Station F Renovation						
REQUESTING DEPARTMENT	Public Works						
PROJECT LOCATION:	1490 Madruga Avenue						
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-stationf				
PRIORITY TYPE:	Regulatory	NAME:	c-stationi				

#### DESCRIPTION

Pump Station F is a sanitary sewer pump station that is located at 1490 Madruga Avenue and services the area south of US1. Upgrades such as a Wet Well Rehabilitation - which consisted of rehabilitation of the valve vault and removal of the existing coating have already been completed. The proposed additional improvements include upgrading the pumps, improvements to the support structure of the pump station, upgrades to the instrument panel and control systems which will allow for greater functionality, integration and control by the City's remote system. These improvements will increase the station's overall reliability.

#### JUSTIFICATION

These improvements are needed because the station has reached the end of its useful life. The reliability and functionality of the station in its current state do not meet the City of Coral Gables standards or the consent decree with Miami-Dade County. The City of Coral Gables is a Volume Sewer Customer and is therefore bound by the Volume Sewer Customer Ordinance. This ordinance mandates that all sanitary sewer infrastructure be maintained by the operating utility in accordance with the rules and guidelines of the ordinance. This project aligns with the City's Strategic Plan's "Customer-focused Excellence" goal by "providing exceptional service that meets or exceeds the requirements and expectations of our community."

PROJEC	T ESTIMATES						
		HI	HISTORICAL EXPENSES				
		PR	IOR YRS		2022		
	PHASE/FACILITY	EX	PENSES	E	(PENSES		
General D	esign	\$	74,985	\$	9,664		
General C	onstruction		10,425	383,993			
TOI	TOTAL PROJECT		85,410	\$	393,657		

FIVE-YEAR ESTIMATE									
	202	23						PROJECT	
PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL	
\$ -	\$ 4,206	\$ -	\$ 4,206	\$ -	\$ -	\$ -	\$ -	\$ 4,206	
-	120,300	=	120,300	-	=	-	-	120,300	
			-					-	
			-					-	
\$ -	\$ 124,506	\$ -	\$ 124,506	\$ -	\$ -	\$ -	\$ -	\$ 124,506	

FUNDIN	IG SOURCE				
		Н	STORICA	L E>	(PENSES
FUND	FUNDING	1	PRIOR		2022
#	TYPE	FU	JNDING	FU	JNDING
410	Sanitary Sewer	\$	85,410	\$	393,657
TOTAL FUNDING			85,410	\$	393,657

FIVE-YEAR ESTIMATE								
2023								PROJECT
PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$ -	\$ 124,506	\$ -	\$ 124,506	\$ -	\$ -	\$ -	\$ -	\$ 124,506
			-					-
			-					-
			-					-
\$ -	\$ 124,506	\$ -	\$ 124,506	\$ -	\$ -	\$ -	\$ -	\$ 124,506

FUND	FUNDING	OPERATING EXPENSE						
#	TYPE	TYPE						
PERSON	PERSONAL SERVICES							
TOTAL P	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES	5						
TOTAL O	THER THAN PERSONNEL							
TOTAL R	TOTAL RELATED OPERATING COST							

FIVE-YEAR ESTIMATE							
2023	2024	2025	2026	2027	PROJECT TOTAL		
					\$ -		
					-		
					-		
					=		
					-		
1	-	-	-	-	-		
					\$ -		
					-		
					-		
					-		
					-		
-	-	-	-	-	-		
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

PROJECT NAME:	Cocoplum Pump Station 1 Upgrade		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	157 Isla Dorada Boulevard		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-coco1imp
PRIORITY TYPE:	Regulatory	NAME:	c-cocoriiip

#### DESCRIPTION

This project is an upgrade of the Cocoplum 1 pump station and includes the installation of a new on-site emergency generator, electrical system upgrades, and upgrades to the pump station's control panels. Cocoplum 1 collects sanitary sewer from basins at Cocoplum 1, 2, & 4. Installation of an emergency generator is required by state law to minimize the risk of sanitary sewer overflows resulting from power failure.

#### JUSTIFICATION

Funding is required to upgrade the electrical system and control panels at the Cocoplum 1 pump station and to install a new on-site emergency generator. Furthermore, USA, FDEP, & the State of Florida vs. Miami-Dade County Case No. 1:12-cv-24400-FAM Consent Decree requires Miami-Dade to continue to implement the Volume Sewer Customer (VSC) Program as an enforceable obligation under the Consent Decree. The existing VSC Program includes the inspection and rehabilitation of each pump station within the VSC collection and transmission system. This project aligns with the City's Strategic Plan's "Sustainability-focused Excellence" goal by "providing exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of our current and future residents, businesses, and visitors.

PROJEC	T ESTIMATES			
		HISTORICAL EXPENSES		
		PRIOR YRS	2022	
	PHASE/FACILITY	<b>EXPENSES</b>	EXPENSES	
General D	General Design		\$ -	
General C	General Construction		45,170	
TOT	AL PROJECT	\$ 2,343,020	\$ 45,170	

FIVE-YEAR ESTIMATE								FIVE-YEAR	
		202	3						PROJECT
PR YR AVA	L OPEN P	.0.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	- \$		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
78,56	9	1	-	78,569	-	-	-	=	78,569
				-					-
				=					-
\$ 78,56	9 \$		\$ -	\$ 78,569	\$ -	\$ -	\$ -	\$ -	\$ 78,569

FUNDIN	IG SOURCE				
		HISTORICAL EXPENSE			
FUND	FUNDING	PRIOR	2022		
#	TYPE	FUNDING	FUNDING		
410	Sanitary Sewer	\$ 1,263,068	\$ 45,170		
410	Sunshine State Financing	552,000	-		
410	Sanitary Capacity Fee	527,952	-		
тот	AL FUNDING	\$ 2,343,020	\$ 45,170		

FIVE-YEAR ESTIMATE								FIVE-YEAR	
2023									PROJECT
PR \	/R AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	16,461	\$ -	\$ -	\$ 16,461	\$ -	\$ -	\$ -	\$ -	\$ 16,461
	-	-	=	-	-	-	-	-	-
	62,108	-	-	62,108	-	-	-	-	62,108
	•			=					-
\$	78,569	\$ -	\$ -	\$ 78,569	\$ -	\$ -	\$ -	\$ -	\$ 78,569

FUND #	FUNDING TYPE	OPERATING EXPENSE TYPE						
PERSONAL SERVICES								
TOTAL P	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES	3						
TOTAL O	THER THAN PERSONNEL							
TOTAL R	TOTAL RELATED OPERATING COST							

FIVE-YEAR ESTIMATE							
2023	2024	2025	2026	2027	PROJECT TOTAL		
					\$ -		
					-		
					_		
					-		
					-		
-	-	-	-	-	-		
					\$ -		
					-		
					-		
					-		
					-		
-	-	-	-	-	-		
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

PROJECT NAME:	City 2 Basin Gravity Sewer Improvement Phase II		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	99 Alhambra Plaza		
PROJECT TYPE:	Sanitary Sewer Improvements	PROJECT ACCOUNTING	c-citv2ren
PRIORITY TYPE:	General Repair	NAME:	c-city2feff

#### DESCRIPTION

The Phase II scope of work shall include construction of sewer system improvements including the upsizing of approximately 2,100 feet of existing pipe to a larger size using a combination of pipe bursting and open trench methods that were designed as part of Phase I.

#### JUSTIFICATION

This project aligns with the City's "Customer-focused Excellence" goal to "Provide exceptional services that meet or exceed the requirements and expectations of our community." This project will improve the existing sewer collection system in the City's sewer basin City 2 funded through the Hazard Mitigation Grant Program (HMGP) DR-4337-330-R, as approved by the Florida Division of Emergency Management and the Federal Emergency Management Agency (FEMA). A 25% City match is required.

PROJEC	T ESTIMATES		
		HISTORICA	L EXPENSES
		PRIOR YRS	2022
	PHASE/FACILITY	EXPENSES	EXPENSES
General D	esign	\$ 70,192	\$ -
General C	onstruction	1,774,047	-
TO	TAL PROJECT	\$ 1.844.239	Ś -

	FIVE-YEAR ESTIMATE									FI	VE-YEAR			
	2023									P	ROJECT			
	PR YR AVAIL	OP	EN P.O.		NEW		TOTAL		2024	2025	2026	2027		TOTAL
Ş	-	\$	9,250	\$	=	\$	9,250	\$	-	\$ -	\$ -	\$ =	\$	9,250
	443,904		-		-		443,904		-	-	-	-		443,904
							-							-
							-							-
9,	443,904	\$	9,250	\$		\$	453,154	\$	-	\$ -	\$ -	\$	\$	453,154

FUNDIN	IG SOURCE					
		HISTORICAL EXPENSES				
FUND	FUNDING	PRIOR	2022			
#	TYPE	FUNDING	FUNDING			
410	Sanitary Sewer	\$ 1,359,239	\$ -			
410	Dept of Emergency Managen	485,000	-			
тот	AL FUNDING	\$ 1,844,239	\$ -			

	FIVE-YEAR ESTIMATE								FIVE-YEAR
	2023							PROJECT	
PR	YR AVAIL	OPEN P.O	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	443,904	\$ 9,250	\$ -	\$ 453,154	\$ -	\$ -	\$ -	\$ -	\$ 453,154
	-	-	-	-	-	-	-	-	-
				-					-
				-					-
\$	443,904	\$ 9,250	\$ -	\$ 453,154	\$ -	\$ -	\$ -	\$ -	\$ 453,154

FUND	FUNDING	OPERATING EXPENSE					
#	TYPE	TYPE					
PERSON	AL SERVICES						
TOTAL P	ERSONNEL						
OTHER T	HAN PERSONAL SERVICES	5					
TOTAL O	THER THAN PERSONNEL						
TOTAL RELATED OPERATING COST							
		· ·					

		FIVE-YEAR I	STIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Leucadendra 2 Pump Station Rehabilitation				
REQUESTING DEPARTMENT	Public Works				
PROJECT LOCATION:	200 Luecadendra Drive				
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-leucad-2		
PRIORITY TYPE:	Regulatory	NAME:	C-leucdu-Z		

#### DESCRIPTION

Improvements at Luccadendra 2 Pump Station are but not limited to sanitary sewer collection system improvements, wet-well rehabilitation, electrical & control systems upgrade and modernization, and replacement of submersible pumps.

#### JUSTIFICATION

The station has reached its useful operating life. Many of the components of this station need to be upgraded and modernized to increase reliability.

PROJEC	PROJECT ESTIMATES						
		Н	HISTORICAL EXPENSES				
					2022		
	PHASE/FACILITY	E	<b>KPENSES</b>	EX	PENSES		
General D	General Design			\$	-		
General C	onstruction		447,254		50,823		
TOTAL PROJECT			447,254	\$	50,823		

	FIVE-YEAR ESTIMATE								FIVE-YEAR
	2023							PROJECT	
	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
-	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	1,492	431	=	1,923		-	=	=	1,923
	<b>(</b>								-
				-					-
3	1,492	\$ 431	\$ -	\$ 1,923	\$ -	\$ -	\$ -	\$ -	\$ 1,923

FUNDIN	IG SOURCE				
		HISTORICAL EXPEN			
FUND	FUNDING	-	PRIOR		2022
#	TYPE	FL	JNDING	FL	INDING
410	Sanitary Sewer	\$	447,254	\$	50,823
		1			
TO1	TOTAL FUNDING			\$	50,823

Į	FIVE-YEAR ESTIMATE								FIVE-YEAR
	2023								PROJECT
	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
ſ	\$ 1,492	\$ 431	\$ -	\$ 1,923	\$ -	\$ -	\$ -	\$ -	\$ 1,923
ſ				-					-
ı				-					-
I				-					-
I	\$ 1,492	\$ 431	\$ -	\$ 1,923	\$ -	\$ -	\$ -	\$ -	\$ 1,923

FUND	FUNDING	OPERATING EXPENSE						
#	TYPE	TYPE						
PERSON	AL SERVICES							
TOTAL P	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES	5						
		Y						
TOTAL O	THER THAN PERSONNEL							
TOTAL R	TOTAL RELATED OPERATING COST							

		FIVE-YEAR I	ESTIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Pump Stations Remote Monitoring System	ump Stations Remote Monitoring System							
REQUESTING DEPARTMENT	Public Works	lic Works							
PROJECT LOCATION:	Citywide								
PROJECT TYPE:	Sanitary Sewer Improvements	PROJECT ACCOUNTING	e ne remet						
PRIORITY TYPE:	Regulatory	NAME:	c-ps-remot						

#### DESCRIPTION

This project consists of the optimization of the SCADA/Telemetry system for remote monitoring and control of operations of the City's sanitary sewer pump stations and force mains.

#### JUSTIFICATION

Presently the City monitors and controls 37 pumping stations with a SCADA telemetry system that utilize Data Flow System (DFS) equipment. DFS infrastructure are now obsolete and availability/cost of parts is not easily sourced and very expensive when found. The Sanitary Sewer Plan of Compliance requires the utility to insure reliability of the Pump Station Monitoring System. This project aligns with the City's Strategic Plan goals to provide exceptional services that enhance local and global environmental quality, enrich our local economy and strengthen the health and well-being of our current and future residents, businesses and visitors.

PROJEC	T ESTIMATES					
		Н	ISTORICA	L EX	PENSES	
		PF	RIOR YRS	2022		
	PHASE/FACILITY	E	KPENSES	EX	PENSES	
Equipmen	t Acquisition	\$	158,842	\$	37,635	
General D	esign		49,972		1,730	
TO1	AL PROJECT	Ś	208.814	Ś	39.365	

FIVE-YEAR ESTIMATE									
	2023							PROJECT	
PR	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	658,161	\$ 279,162	\$ -	\$ 937,323	\$ -	\$ -	\$ -	\$ -	\$ 937,323
	-	14,498	=	14,498	=	=	-	=	14,498
				-					-
				-					-
\$	658,161	\$ 293,660	\$ -	\$ 951,821	\$ -	\$ -	\$ -	\$ -	\$ 951,821

FUNDIN	IG SOURCE						
		HISTORICAL EXPENSES					
FUND	FUNDING		PRIOR	2022			
#	TYPE	F	UNDING	FUNDING			
410	Sanitary Sewer	\$	208,814	\$	39,365		
тот	AL FUNDING	\$	208,814	\$	39,365		

	FIVE-YEAR ESTIMATE									
	2023								PROJECT	
PR	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL	
\$	658,161	\$ 293,660	\$ -	\$ 951,821	\$ -	\$ -	\$ -	\$ -	\$ 951,821	
				-					-	
				-					-	
				-					-	
\$	658,161	\$ 293,660	\$ -	\$ 951,821	\$ -	\$ -	\$ -	\$ -	\$ 951,821	

FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	
410	Sanitary Sewer	Maintenance/Repair
410	Sanitary Sewer	Professional Services
TOTAL O	THER THAN PERSONNEL	
<b>TOTAL R</b>	ELATED OPERATING COST	

	FIVE-YEAR ESTIMATE											
2023	2024	2025	2026	2027	PROJECT TOTAL							
					\$ -							
					-							
					-							
					-							
					-							
-	-	-	-	-	-							
	T		T									
20,000	20,000	20,000	20,000	20,000	\$ 100,000							
10,000	10,000	10,000	10,000	10,000	50,000							
					-							
					-							
					-							
30,000	30,000	30,000	30,000	30,000	150,000							
\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000							

PROJECT NAME:	Sanitary Sewer Electronic Atlas Update and Model Calibration	nitary Sewer Electronic Atlas Update and Model Calibration							
REQUESTING DEPARTMENT	Public Works	lic Works							
PROJECT LOCATION:	Citywide								
PROJECT TYPE:	Sanitary Sewer Improvements PROJECT ACCOUNTING								
PRIORITY TYPE:	Consent Order	nsent Order NAME: c-el-atlas							

#### DESCRIPTION

The project consists of the Sanitary Sewer Atlas update and the Sanitary Sewer Model calibration. The project will update the necessary data collection for the calibration of the City's sanitary sewer model that includes, but not limited to, the delineation of all pump station basins and pump stations locations, pump station specs, manholes, inverts and rim elevations, force mains, air release valves, check valves, flow meter, pressure gauges and other items.

#### JUSTIFICATION

Under the Miami-Dade Sewer Consent Decree, all utilities shall participate in a county wide regional computerized collection and transmission system model to assist in the development and implementation of operation and maintenance procedure to optimize transmission capacity within the collection system; and evaluate the impact of infiltration and inflow rehabilitation programs, proposed system modifications, upgrades and expansions to the transmission capacity and performance of the collection system. Sanitary Sewer Atlas is required to be updated in an annual basis and Modeling is required to be calibrated on 5-year basis. This project aligns with the City's Strategic Plan objectives to provide exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of our current and future residents, businesses and visitors.

PROJEC	T ESTIMATES							
		HI	HISTORICAL EXPEN					
		PR	PRIOR YRS 2022					
	PHASE/FACILITY	EX	EXPENSES EXPENSES					
General D	esign	\$	54,476	\$	1,008			
TOT	TAL PROJECT	\$	54,476	\$	1,008			

FIVE-YEAR ESTIMATE													FI	VE-YEAR		
	2023													Р	ROJECT	
PR'	YR AVAIL	OPEN P.O.		NEW		TOTAL		2024		2025		2026		2027		TOTAL
\$	94,516	\$ -	\$	50,000	\$	144,516	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	344,516
						-										-
						-										-
						-										-
\$	94,516	\$ -	\$	50,000	\$	144,516	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	344,516

FUNDIN	IG SOURCE						
		HISTORICAL EXPENSE					
FUND	FUNDING		PRIOR	2022			
#	TYPE	FU	JNDING	FUNDING			
410	Sanitary Sewer	\$	54,476	\$	1,008		
тот	AL FUNDING	IG \$ 54,476 \$					

FIVE-YEAR ESTIMATE												FI	VE-YEAR			
	2023														P	ROJECT
PR YR AVAIL OPEN P.O. NEW TOTA					TOTAL	2024 2025					2026	2027		TOTAL		
\$	94,516	\$ -	\$	50,000	\$	144,516	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	344,516
						-										-
						-										-
						-										-
\$	94,516	\$ -	\$	50,000	\$	144,516	\$	50,000	\$	50,000	\$	50,000	\$	50,000	\$	344,516

FUND	FUNDING	OPERATING EXPENSE										
#	TYPE	TYPE										
PERSON	AL SERVICES											
TOTAL P	ERSONNEL											
OTHER T	HAN PERSONAL SERVICES											
TOTAL OTHER THAN PERSONNEL												
TOTAL R	TOTAL RELATED OPERATING COST											

		FIVE-YEAR I	STIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
•	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Sewer Pipe Cameras		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c ninocams
PRIORITY TYPE:	General Repair	NAME:	c-pipecams

#### DESCRIPTION

This project is for the acquisition of closed circuit television equipment (CCTV) for the identification and quantification of defects in the sanitary sewer & storm pipes within the City. Funding is necessary in order to acquire and maintain such CCTV equipment for the Public Works Utilities Division. The City's sanitary sewer system consists of more than 64 miles of gravity pipes and the storm system more than 5 miles of pipes. With this tool, the Utilities crew will be able to identify damage, improve system maintenance, minimize backups, and reduce infiltration. This equipment is intended to be used on an "as-needed" basis in support of day to day field operations.

#### JUSTIFICATION

CCTV is the most effective method for identification of defects and damages to underground pipes for both sewer and storm systems. The use of such equipment is instrumental in identifying the precise nature and location of damage to the sewer lines so that repairs can be implemented to reduce infiltration (which cost the City \$2.56 per 1,000 gal.) and to prevent further leakage which can result in significant fines and penalties.

PROJEC	T ESTIMATES									
		Н	HISTORICAL EXPENSES							
		PF	RIOR YRS		2022					
	PHASE/FACILITY	EX	<b>(PENSES</b>	EX	PENSES					
Equipmen	t Acquisition	\$	115,620	\$	10,159					
TOI	AL PROJECT	Ś	115.620	Ś	10.159					

	FIVE-YEAR ESTIMATE															FIVE-YEAR	
	2023															Р	ROJECT
	PR YR AVAIL	YR AVAIL OPEN P.O. NEW		TOTAL		2024		2025		2026		2027		TOTAL			
[	\$ 1,329	\$	2,892	\$	50,000	\$	54,221	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	74,221
																	-
							-										-
							-										-
•	\$ 1,329	\$	2,892	\$	50,000	\$	54,221	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	74,221

FUNDIN	IG SOURCE							
		HISTORICAL EXPENSE						
FUND	FUNDING		PRIOR	2022				
#	TYPE	F	UNDING	FL	INDING			
410	Sanitary Sewer	\$	115,620	\$	10,159			
тот	AL FUNDING	\$	115,620	\$	10,159			

RELATED OPERATING COST

TOTAL OTHER THAN PERSONNEL TOTAL RELATED OPERATING COST

I						F۱\	/E-YEAR I	ST	IMATE							FIVE-YEAR	
		2023														Р	ROJECT
	PR YR AVAIL OPEN P.O. NEW		TOTAL		2024		2025		2026		2027		TOTAL				
	\$ 1,329	\$	2,892	\$	50,000	\$	54,221	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	74,221
							1										-
							-										-
							1										-
	\$ 1,329	\$	2,892	\$	50,000	\$	54,221	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	74,221

# FUND TYPE OPERATING EXPENSE TYPE PERSONAL SERVICES TOTAL PERSONNEL OTHER THAN PERSONAL SERVICES 410 Sanitary Sewer Maintenance/Repair

		FIVE-YEAR I	ESTIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
15,000	15,000	15,000	15,000	15,000	\$ 75,000
					-
					-
					-
					-
15,000	15,000	15,000	15,000	15,000	75,000
\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000

PROJECT NAME:	Citywide Septic to Sewer Conversion Assessment (New Capital Re	Citywide Septic to Sewer Conversion Assessment (New Capital Request)										
REQUESTING DEPARTMENT	blic Works											
PROJECT LOCATION:	Septic Service Areas in the City											
PROJECT TYPE:	Sanitary Sewer Improvements	PROJECT ACCOUNTING	c con conv									
PRIORITY TYPE:	Public Welfare & Safety C-sep-conv											

#### DESCRIPTION

The assessment will explore the potential expansion of the City's existing sewer system to provide service to the properties that are currently utilizing septic tanks, as well as the associated sewer collection and transmission infrastructure improvements. The assessment will include a review of the regulatory framework, existing conditions, environmental concerns, calculation of the total estimated wastewater flows, collection system alternatives evaluation, capacity analysis, and recommendations. The King's Bay Septic-to-Sewer Conversion project will consist of the construction of a new gravity sewer system, pump station, and force main that will allow for the abandonment of approximately 149 individual septic systems and divert sewage discharge to Miami-Dade County's sewage treatment plant.

#### JUSTIFICATION

According to multiple scientific studies, the health of Biscayne Bay is at a tipping point. Nutrient pollution is killing seagrass, coral, and causing fish kills. Scientists believe that septic systems are at least partly to blame for the nitrogen enriched groundwater that is causing algae blooms and oxygen depletion. This project will assess the abandonment of approximately 7,487 septic systems citywide and thus reduce the resulting pollutants from discharging into the bay. This project aligns with the City's Strategic Plan's Sustainability-focused Excellence goal, "Provide exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of residents, businesses, and visitors."

PROJEC	T ESTIMATES								
		HISTORICAL EXPENS							
		PRIOR	-	20	22				
	PHASE/FACILITY	EXPENS	SES	EXPE	NSES				
Citywide A	Assessments	\$	-	\$	-				
Granada (	Golf Course		-		100				
Kings Bay	Septic Conversion		-		-				
					•				
TOT	AL PROJECT	\$	-	\$	100				

	FIVE-YEAR ESTIMATE													FI	VE-YEAR	
											P	ROJECT				
P	R YR AVAIL	OPEN P.O		NEW		TOTAL		2024		2025		2026		2027	TOTAL	
\$	-	\$ -	\$	562,500	\$	562,500	\$	187,500	\$	-	\$	-	\$	=	\$	750,000
	33,530	16,370		-		49,900		-		-				-		49,900
	140,000	-		-		140,000		-		-		-		=		140,000
						-										-
						-										-
\$	173,530	\$ 16,370	\$	562,500	\$	752,400	\$	187,500	\$	-	\$	-	\$	-	\$	939,900

FUNDIN	IG SOURCE						
		HISTORICAL EXPENSES					
FUND	FUNDING	PRIOR	2022				
#	TYPE	FUNDING	FUNDING				
410	Sanitary Sewer	\$ -	\$ 100				
310	Gen. Capital Improvement	-	-				
310	Dept of Envir Protection	-	-				
тот	AL FUNDING	\$ -	\$ 100				

RELATED OPERATING COST

TOTAL OTHER THAN PERSONNEL TOTAL RELATED OPERATING COST

FUND

	FIVE-YEAR ESTIMATE									FI	VE-YEAR			
			202	23									P	ROJECT
PF	R YR AVAIL	OF	PEN P.O.		NEW	·	TOTAL		2024	2025	2026	2027		TOTAL
\$	33,530	\$	16,370	\$	-	\$	49,900	\$	-	\$ -	\$ -	\$ -	\$	49,900
	140,000		-		187,500		327,500		187,500	-	=	-		515,000
	-		-		375,000		375,000		-	-	-			375,000
							-							-
\$	173,530	\$	16,370	\$	562,500	\$	752,400	\$	187,500	\$ -	\$ -	\$	\$	939,900

#	TYPE	TYPE						
PERSON	PERSONAL SERVICES							
TOTAL P	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES							

OPERATING EXPENSE

FUNDING

	FIVE-YEAR ESTIMATE									
2023	2024	2025	2026	2027	PROJECT TOTAL					
					\$ -					
					-					
					-					
					=					
					1					
-	-	-	-	-	-					
					\$ -					
					-					
					-					
					=					
					-					
=	-	-	-	-	-					
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -					

PROJECT NAME:	Stormwater System Improvement Program		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-stm-mtrx
PRIORITY TYPE:	Regulatory	NAME:	C-Sun-IIIUX

#### DESCRIPTION

Ongoing improvements to the management of stormwater runoff. Ongoing implementation of this program requires the installation of upgraded drainage systems in conjunction with street improvements. New drainage systems are needed in neighborhoods where stormwater drainage is insufficient. Among the remedies can be french drains, new catch basins and installation of auger holes.

#### JUSTIFICATION

Miami-Dade County requires the City to make ongoing improvements to the management of stormwater runoff.

PROJECT ESTIMATES					
	HISTORICAL EXPENS				
	PRIOR YRS	2022			
PHASE/FACILITY	EXPENSES	EXPENSES			
General Design	\$ 694,031	\$ 14,112			
General Construction	1,365,673	278,653			
Drainage Infrastructure Verification	-	573,908			
Downtown Drainage Improvements	-	-			
Galiano St. & Madeira Ave. Drainage	-	17,432			
TOTAL PROJECT	\$ 2.059.704	\$ 884.105			

	FIVE-YEAR ESTIMATE								
		202	23						PROJECT
PI	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	40,947	\$ 6,585	\$ 40,000	\$ 87,532	\$ 40,000	\$ 40,000	\$ 15,000	\$ 40,000	\$ 222,532
	339,035	207,126	110,000	656,161	110,000	110,000	110,000	60,000	1,046,161
	23,200	152,892	25,000	201,092	25,000	25,000	25,000	25,000	301,092
	150,000	1	125,000	275,000	125,000	125,000	125,000	125,000	775,000
	349,993	32,574	-	382,567	-	-	-	-	382,567
\$	1,053,175	\$ 399,177	\$ 300,000	\$ 1,752,352	\$ 300,000	\$ 300,000	\$ 275,000	\$ 250,000	\$ 2,877,352

FUNDIN	IG SOURCE					
		HISTORICAL EXPENSES				
FUND	FUNDING	PRIOR	2022			
#	TYPE	FUNDING	FUNDING			
400	Stormwater	\$ 2,059,704	\$ 883,274			
400	Grant - State (Other)	-	831			
310	Gen. Capital Improvement	-	-			
TOT	AL FUNDING	\$ 2,059,704	\$ 884,105			

RELATED OPERATING COST

TOTAL OTHER THAN PERSONNEL TOTAL RELATED OPERATING COST

FUNDING

FUND

	FIVE-YEAR ESTIMATE									FIVE-YEAR			
			202	3									PROJECT
PR	R YR AVAIL	ō	PEN P.O.		NEW	TOTAL		2024		2025	2026	2027	TOTAL
\$	733,175	\$	370,008	\$	300,000	\$ 1,403,183	\$	300,000	\$	300,000	\$ 275,000	\$ 250,000	\$ 2,528,183
	170,000		29,169		-	199,169		-		-	-	-	199,169
	150,000		-		-	150,000		-		-	-	-	150,000
													-
\$	1,053,175	\$	399,177	\$	300,000	\$ 1,752,352	\$	300,000	\$	300,000	\$ 275,000	\$ 250,000	\$ 2,877,352

#	TYPE	TYPE					
PERSON.	PERSONAL SERVICES						
TOTAL P	ERSONNEL						
<b>OTHER T</b>	HAN PERSONAL SERVICES	5					

OPERATING EXPENSE

		FIVE-YEAR I	ESTIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Storm Drainage Master Plan		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Stormwater Improvements	PROJECT ACCOUNTING	c-stm-mstr
PRIORITY TYPE:	Other (Described Below)	NAME:	C-Still-IllSti

#### DESCRIPTION

A Stormwater Master Plan is a comprehensive management plan for stormwater and drainage works which addresses flooding from excess runoff and residue from rain or hurricane events. The goal of the Stormwater Master Plan is to help the City of Coral Gables understand its current state of the stormwater system and recommend environmentally comprehensive and resilient storm drain designs to address current flooding problems and/or areas where future challenges may occur. The plan will further recommend design standards for new development/re-development, transportation, water quality, floodplain mitigation, inadequate storm sewer and culvert system, channels, and swales, among other solutions.

#### JUSTIFICATION

This project aligns with the City's "Customer-focused Excellence" goal by "providing exceptional services that meet or exceed the requirements and expectations of our community." The preparation of a Stormwater Master Plan will enhance the stormwater system, drainage, and address the following issues/concerns: Biscayne Bay, Water Quality, Sea Level Rise, Low/Flat Terrain & High Groundwater Table, Water Resistant/Flood Prone Urban Areas, Saltwater Intrusion, Higher Tides and Backflow, and Manatee Access to the Stormwater System. This project will assist the City with providing a better level of service to the community, in a cost-effective manner while providing a road-map to the residents regarding the mitigating actions (along with associated cost breakdowns) to improve the City's stormwater management. The stormwater master plan will serve as the basic document for the City to pursue and secure federal and state grants to improve the stormwater system and mitigate the impacts of localized flooding. In addition, the Plan will be incorporated into the City's on-going effort to improve the existing Community Rating System (CRS) from a Class 5 to a Class 4. This means that property owners or renters will receive a 30% discount on the NFIP flood insurance policies in the "Special Flood Hazards Areas (SFHAs)" and a 10% discount on policies for properties outside the SFHA, respectively.

PROJEC	T ESTIMATES				
		HISTO	RICA	L EXPENSE	ES
		PRIOR	YRS	2022	
	PHASE/FACILITY	EXPE	NSES	EXPENSE	ES
Stormwat	er Master Plan	\$	-	\$	-
TOT	TAL PROJECT	\$	-	\$	

FIVE-YEAR ESTIMATE													FIVE-YEAR
									PROJECT				
PR	YR AVAIL	OPEN P.O.		NEW	TOTAL		2024		2025	2026		2027	TOTAL
\$	500,000	\$ -	\$	500,000	\$ 1,000,000	\$	-	\$	=	\$	-	\$ -	\$ 1,000,000
					-								-
					-								-
					-								-
\$	500,000	\$ -	\$	500,000	\$ 1,000,000	\$	-	\$	-	\$	-	\$ -	\$ 1,000,000

FUNDIN	IG SOURCE		
		HISTORICA	L EXPENSES
FUND	FUNDING	PRIOR	2022
#	TYPE	FUNDING	FUNDING
400	Stormwater	\$ -	\$ -
400	Dept of Envir Protection	-	-
TOT	TAL FUNDING	\$ -	\$ -

RELATED OPERATING COST

TOTAL OTHER THAN PERSONNEL
TOTAL RELATED OPERATING COST

	FIVE-YEAR ESTIMATE														FI	VE-YEAR	
			202	23												F	ROJECT
	PR YR	AVAIL	OPEN P.O.	1	NEW	T	TOTAL		2024		2025		2026		2027		TOTAL
	\$ 50	00,000	\$ -	\$	-	\$	500,000	\$	-	\$	-	\$	-	\$	-	\$	500,000
		-	ı		500,000		500,000		-		1		-		-		500,000
							-										-
Ĺ							-										-
	\$ 50	00,000	\$ -	\$	500,000	\$ 1	,000,000	\$	-	\$	-	\$	-	\$	-	\$	1,000,000

# FUND # PUNDING TYPE TYPE PERSONAL SERVICES TOTAL PERSONNEL OTHER THAN PERSONAL SERVICES

		FIVE-YEAR I	STIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Cross-connection Removal		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c crosson
PRIORITY TYPE:	Regulatory	NAME:	c-crosscon

#### DESCRIPTION

The City has begun to identify areas of illicit or illegal connection of the stormwater and VSC collection and transmission systems. The City has been identifying these illegal connections and eliminating them. Pipes that are found to be illegally connected to the sanitary system are cut and re-rerouted to the appropriate discharge system.

#### JUSTIFICATION

NPDES permit requires a written proactive inspection program for identifying and eliminating sources of illicit discharges, illicit connection or illegal dumping to the City's Municipal Separate Storm Sewer System (MS4). Miami-Dade's VSC Program (an enforceable obligation under the Consent Decree) includes the identification and elimination of each illegal stormwater connection to the VSC collection and transmission systems. There are 39 identified illicit connections in the City with approximately 3/4 of these connections requiring sanitary sewer repairs costing \$5,000/connection.

PROJECT ESTIMATES		
	HISTORICA	L EXPENSES
	PRIOR YRS	2022
PHASE/FACILITY	EXPENSES	EXPENSES
General Construction	\$ 944,005	\$ -
TOTAL PROJECT	\$ 1,716,331	\$ -

						Fľ	VE-YEAR I	ST	IMATE				FI	VE-YEAR
			202	3									P	ROJECT
PR	YR AVAIL	OI	PEN P.O.		NEW		TOTAL		2024	2025	2026	2027		TOTAL
\$	269,833	\$	188,311	\$	-	\$	458,144	\$	100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$	858,144
							-							-
							-							-
							-							-
\$	269,833	\$	188,311	\$	-	\$	458,144	\$	100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$	858,144

FUNDIN	IG SOURCE							
		HISTORICAL EXPENSE						
FUND	FUNDING	PRIOR	2022					
#	TYPE	FUNDING	FUNDING					
400	Stormwater	\$ 944,005	\$ -					
410	Sanitary Sewer	772,326	-					
тот	AL FUNDING	\$ 1,716,331	\$ -					

						FI	VE-YEAR I	EST	IMATE				FI	VE-YEAR
	2023												P	ROJECT
PR	YR AVAIL	OI	PEN P.O.		NEW		TOTAL		2024	2025	2026	2027		TOTAL
\$	269,833	\$	188,311	\$	-	\$	458,144	\$	100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$	858,144
	-		-		-		-		-	-	-	-		-
							_							_
							-							-
\$	269,833	\$	188,311	\$	-	\$	458,144	\$	100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$	858,144

FUND	FUNDING	OPERATING EXPENSE							
#	TYPE	TYPE							
PERSON	AL SERVICES								
TOTAL P	ERSONNEL								
OTHER T	HAN PERSONAL SERVICES								
TOTAL OTHER THAN PERSONNEL									
TOTAL R	TOTAL RELATED OPERATING COST								

		FIVE-YEAR I	STIMATE		
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					_
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Cocoplum Drainage Improvements									
REQUESTING DEPARTMENT	Public Works	c Works								
PROJECT LOCATION:	The Cocoplum Community									
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	cocodrns							
PRIORITY TYPE:	Quality of Life	NAME:	COCOUTIIS							

#### DESCRIPTION

This project entails stormwater drainage improvements along with other stormwater improvements in the Cocoplum Community. Phase 1 will be performed along Los Pinos Boulevard and Los Pinos Circle. These improvements will be designed and constructed to mitigate the existing water ponding issues and flooding that occurs within the area. Phase 2 will consist of the rehabilitation of the existing storm drainage outfalls located within the Cocoplum Section One community. The project will be designed and constructed to improve not only current flooding issues but also water quality discharge to the canals. Phase 2 will be performed along Los Pinos Blvd from Cocoplum Road west to Monaco Street; Robles Street; Vistamar Street; Monaco Street 7 Los Pinos Ct.

#### JUSTIFICATION

Cocoplum stormwater drainage improvements are necessary to reduce flooding during storm events. The area has experienced ponding and flooding in several locations causing a hazardous condition for the area residents. This project aligns with the City's Strategic Plan's "Sustainability-focused Excellence" goal by "providing exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of our current and future residents, businesses, and visitors.

PROJEC	T ESTIMATES				
		Н	ISTORICA	L EX	PENSES
		PF	RIOR YRS		2022
	PHASE/FACILITY	EX	<b>XPENSES</b>	EX	PENSES
General D	esign	\$	259,133	\$	2,013
General C	onstruction		722,444		-
TO	AL PROJECT	\$	981,577	\$	2,013

	FIVE-YEAR ESTIMATE														FI	VE-YEAR	
			202	3												P	ROJECT
PR	YR AVAIL	OP	EN P.O.		NEW	T	TOTAL		2024		2025		2026		2027	•	TOTAL
\$	=	\$	21,454	\$	-	\$	21,454	\$	=	\$	-	\$	=	\$	-	\$	21,454
	945,110		-		350,000	1	1,295,110		150,000		-		-				1,445,110
							-										-
							-										-
\$	945,110	\$	21,454	\$	350,000	\$ 1	,316,564	\$	150,000	\$	-	\$	-	\$	-	\$ :	1,466,564

FUNDIN	IG SOURCE										
		HISTORICAL EXPENSES									
FUND	FUNDING		PRIOR		2022						
#	TYPE	F	UNDING	FU	INDING						
400	Stormwater	\$	981,577	\$	2,013						
тот	AL FUNDING	\$	981,577	\$	2,013						

FIVE-YEAR ESTIMATE														
		202	3										PROJECT	
PR YR AVAIL	OF	PEN P.O.		NEW	TOTAL		2024		2025	2026	5	2027	TOTAL	
\$ 945,110	\$	21,454	\$	350,000	\$ 1,316,564	\$	150,000	\$	-	\$	-	\$ -	\$ 1,466,56	
					-									
					-									
					-									
\$ 945,110	\$	21,454	\$	350,000	\$ 1,316,564	\$	150,000	\$	-	\$	-	\$ -	\$ 1,466,56	

FUND	FUNDING	OPERATING EXPENSE										
#	TYPE	TYPE										
PERSON	AL SERVICES											
TOTAL P	ERSONNEL											
OTHER T	HAN PERSONAL SERVICE	S										
TOTAL O	TOTAL OTHER THAN PERSONNEL											
TOTAL R	ELATED OPERATING COS	Т										

	FIVE-YEAR ESTIMATE													
2023	2023 2024 2025 2026 2027													
					\$ -									
					-									
					-									
					-									
					-									
-	-	-	-	-	-									
					\$ -									
					-									
					=									
					Ū.									
					-									
-	-	-	1	-	-									
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -									

PROJECT NAME:	Canal Bank Stabilization		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	C-3 Waterway Canal		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-canalwal
PRIORITY TYPE:	General Repair	NAME:	c-canaiwai

#### DESCRIPTION

This project is to stabilize the C-3 Waterway Canal downstream of the Flood Control Structure G-93 to mitigate erosion of the bank. It will include reinforcement of the canal banks by various means.

#### JUSTIFICATION

Erosion of the bank causes sedimentation that ultimately reduces the effectiveness of the flood control structure and may cause severe scouring of bridge pilings. This project aligns with the City's Strategic Plan's "Sustainability-focused Excellence" goal by "providing exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of our current and future residents, businesses, and visitors.

PROJEC	T ESTIMATES				
		HI	STORICA	L EX	PENSES
		PR	IOR YRS		2022
	PHASE/FACILITY	EX	PENSES	EX	PENSES
General D	esign	\$	38,438	\$	14,991
General C	onstruction		-		215
TOI	AL PROJECT	Ś	38,438	Ś	15.206

	FIVE-YEAR ESTIMATE														FI	VE-YEAR	
			202	3												P	ROJECT
PR	YR AVAIL	OP	EN P.O.		NEW		TOTAL		2024		2025		2026		2027		TOTAL
\$	=	\$	28,281	\$	-	\$	28,281	\$	=	\$	-	\$	=	\$	-	\$	28,281
	565,362		-				565,362		-				-				565,362
							-										-
							=										-
\$	565,362	\$	28,281	\$	-	\$	593,643	\$	-	\$	-	\$	-	\$	-	\$	593,643

FUNDIN	IG SOURCE									
		HISTORICAL EXPENSES								
FUND	FUNDING		PRIOR		2022					
#	TYPE	FL	JNDING	FU	INDING					
400	Grant - State (Other)	\$	36,748	\$	8,455					
400	Stormwater		1,690		6,536					
310	Gen. Capital Improvement		-		215					
тот	AL FUNDING	\$	38,438	\$	15,206					

				FIVE-YEAR	ESTIMATE				FIVE-YEAR
		202	23						PROJECT
PR \	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	154,797	\$ -	\$ -	\$ 154,797	\$ -	\$ -	\$ -	\$ -	\$ 154,797
	100,780	28,281	-	129,061	-	-	-	=	129,061
	309,785	-	=	309,785	=	=	=	-	309,785
				-					-
\$	565,362	\$ 28,281	\$ -	\$ 593,643	\$ -	\$ -	\$ -	\$ -	\$ 593,643

FUND #	FUNDING TYPE	OPERATING EXPENSE TYPE
PERSON	AL SERVICES	
TOTALD	FREGRINE	
	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	5
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	
	•	_

	FIVE-YEAR ESTIMATE										
2023	2024	024 2025 2026			PROJECT TOTAL						
					\$ -						
					-						
					-						
					-						
					-						
-	-	-	-	-	-						
					\$ -						
					-						
					-						
					-						
					-						
-	-	-	-	-	-						
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						

PROJECT NAME:	Sea Level Rise Mitigation Program					
REQUESTING DEPARTMENT	Public Works					
PROJECT LOCATION:	Citywide					
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-sealevel			
PRIORITY TYPE:	Public Welfare & Safety	NAME:	c-sedievei			

#### DESCRIPTION

The City of Coral Gables is located within coastal vulnerability to the sea-level rise area. A professional Engineering assessment will be required. The assessment will seek to objectively determine the relative risks due to future sea-level rise including at public and private own properties and infrastructures within the City. Increases in stormwater rates will fund future construction efforts to mitigate seal level rise. The specific type of construction will be determined at a later date.

#### JUSTIFICATION

Many academic studies have predicted sea level rise in varying degrees. Many of Coral Gables' most pristine communities will be severely affected with a sea level rise of a even a few inches, much less multiple feet as predicted in some periodicals. The City is committed to be proactive in planning mitigation efforts to combat this issue.

PROJEC	T ESTIMATES			
		Н	ISTORICA	L EXPENSES
		PF	RIOR YRS	2022
	PHASE/FACILITY	E	<b>XPENSES</b>	EXPENSES
General D	esign	\$	187,500	\$ -
Sea Level	Rise Mitigation Reserve		-	-
TOI	AL PROJECT	\$	187,500	\$ -

	FIVE-YEAR ESTIMATE								
	2023							PROJECT	
P	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	2,500	\$ -	\$ -	\$ 2,500	\$ -	\$ -	\$ -	\$ -	\$ 2,500
	13,060,764	-	3,670,000	16,730,764	4,115,000	4,560,000	5,005,000	5,005,000	35,415,764
									-
									-
\$	13,063,264	\$ -	\$ 3,670,000	\$ 16,733,264	\$ 4,115,000	\$ 4,560,000	\$ 5,005,000	\$ 5,005,000	\$35,418,264

FUNDIN	IG SOURCE				
		HISTORICA	L EXPENSES		
FUND	FUNDING	PRIOR	2022		
#	TYPE	FUNDING	FUNDING		
400	Stormwater	\$ 187,500	\$ -		
тот	AL FUNDING	\$ 187,500	\$ -		

	FIVE-YEAR ESTIMATE								
		20	023						PROJECT
P	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	13,063,264	\$ -	\$ 3,670,000	\$ 16,733,264	\$ 4,115,000	\$ 4,560,000	\$ 5,005,000	\$ 5,005,000	\$35,418,264
				-					-
				-					-
				-					-
\$	13,063,264	\$ -	\$ 3,670,000	\$ 16,733,264	\$ 4,115,000	\$ 4,560,000	\$ 5,005,000	\$ 5,005,000	\$35,418,264

FUND #	FUNDING TYPE	OPERATING EXPENSE TYPE
PERSON	AL SERVICES	
TOTAL D	FROMINE	
	ERSONNEL	
OTHER T	HAN PERSONAL SERVICE	S
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	Т

	FIVE-YEAR ESTIMATE										
2023	2023 2024 2025 2026 20										
					\$ -						
					-						
					_						
					-						
					-						
•	-	-	•	-	-						
					\$ -						
					_						
					-						
					=						
					-						
=	-	-	-	-	-						
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -						

PROJECT NAME:	Stormwater Outfall Baffles		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Utility Repairs/Improvements	PROJECT ACCOUNTING	c-strm-baf
PRIORITY TYPE:	Public Welfare & Safety	NAME:	C-Still-Ddl

#### DESCRIPTION

This capital improvement project will improve the discharged water quality at the City drainage system by reducing the amount of pollutants being discharged from the City into waterways. The City of Coral Gables stormwater system includes 108 outfalls discharging mainly into the Coral Gables Waterway and the Gables Estates' waterways. The City waterways consist of approximately 40 miles of man-made canals discharging into the Biscayne Bay. The project consists of the design and installation of new baffle boxes at the major outfalls within the City and develops a contingency plan and resources to address potential environmental changes such as sea level rise. This project is contingent on a 50/50 match from the South Florida Water Management District, which would bring total project total to \$220,000.

#### JUSTIFICATION

The mid-south part of the City of Coral Gables is bordered by the Biscayne Bay including City's waterways. In effort to protect the waterways and the Bay, the City has been implementing a series of best management practices related to stormwater. This project includes canal basins C2 and C3 and ends in Biscayne Bay. Baffle boxes are simple, inexpensive storm water BMPs that effectively remove sediment and suspended solids from storm water. A primary advantage of baffle boxes is that they can be retrofitted into existing storm lines, allowing installation within existing rights-of-way. EPA has reported the pollutant removal efficiency for baffle boxes as 70.6% removal of TSS; 38.7% removal of total Phosphorus and 17.6 removal of BOD5.

PROJEC	T ESTIMATES				
		HIST	ORICA	L EXPENS	ES
		PRIC	R YRS	2022	
	PHASE/FACILITY	EXPI	ENSES	EXPENS	ES
General D	esign	\$	-	\$	-
General C	onstruction		-		-
TOT	AL PROJECT	Ś	_	¢	_

	FIVE-YEAR ESTIMATE								FIVE-YEAR
		202	:3						PROJECT
PR	YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
\$	10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
	100,000	1	1	100,000	-	-	-	ı	100,000
				=					-
	•			-					-
\$	110,000	\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ 110,000

FUNDIN	IG SOURCE					
		HISTORICAL EXPENSE				
FUND	FUNDING	PRIOR	2022			
#	TYPE	FUNDING	FUNDING			
400	Stormwater	\$ -	\$ -			
тот	TAL FUNDING	\$ -	\$ -			

	FIVE-YEAR ESTIMATE								
		202	3						PROJECT
	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL
	\$ 110,000	\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ 110,000
				-					_
				-					-
Г				-					-
	\$ 110,000	\$ -	\$ -	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ 110,000

FUND	FUNDING	OPERATING EXPENSE
#	TYPE	TYPE
PERSON	AL SERVICES	
TOTAL P	ERSONNEL	
OTHER T	HAN PERSONAL SERVICES	
400	Stormwater	Maintenance/Repair
TOTAL O	THER THAN PERSONNEL	
TOTAL R	ELATED OPERATING COST	

FIVE-YEAR ESTIMATE										
2023	2024 2025 2026 2027				PROJECT TOTAL					
					\$ -					
					-					
					=					
					=					
					-					
-	-	-	-	-	-					
10,000	10,000	10,000	10,000	10,000	\$ 50,000					
					=					
					-					
					=					
					-					
10,000	10,000	10,000	10,000	10,000	50,000					
\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000					

PROJECT NAME:	Coral Gables Waterways Maintenance		
REQUESTING DEPARTMENT	Public Works		
PROJECT LOCATION:	Citywide		
PROJECT TYPE:	Stormwater Improvements	PROJECT ACCOUNTING	c waterway
PRIORITY TYPE:	Cyclical	NAME:	c-waterway

#### DESCRIPTION

The initial phase of this project includes the technical and engineering evaluation of the existing conditions of the City's waterways to include sediment levels and water quality studies within the waterways. The findings from this evaluation will be used to prioritize improvements along different segments of the waterway to include sediment dredging and other improvement as recommended from the study. The City of Coral Gables has evaluated the need for maintenance dredging of the City's maintained waterways which have been divided into 13 segments as shown in the assessment report. The funding below is for segments of the waterway which will be implemented in a multi-year, phased project approach. Cost developed as part of the evaluation were developed in 2019 dollars and has been inflated below for future years. Maintenance dredging requires that accumulated sediment is removed from the bottom of the canals in order to restore their originally permitted cross section. Maintenance dredging is typically initiated when the cross-sectional area of the canal is reduced, drainage issues are experienced, or vessels have difficulty navigating local waterways. No new dredging of rock removal is allowed as part of the maintenance dredging process. The last time an evaluation of the canals was completed was in 2005 and the last time segments of the canal were dredged was in 2013 (Segments I. K. I. M: Portions of G and I).

#### JUSTIFICATION

This project aligns with the City's Strategic Plan goal to "provide exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of residents, businesses and visitors." Under the National Pollution Discharge Elimination System (NPDES), the City is required to maintain waterways within the City which are threatened to become silted with the passage of time due to sedimented sand and mud. The waterways provide a significant economic and aesthetic resource for the City and they merit preservation. Furthermore, several concerns have been received regarding vessels bottoming-out at certain points along the waterway due to the high levels of sediment.

PROJECT ESTIMATES				
	HISTORICA	L EXPENSES		
	PRIOR YRS	2022		
PHASE/FACILITY	EXPENSES	EXPENSES		
General Design	\$ 200,000	\$ -		
Dredging Evaluation	200,000	-		
Riveria Flood Gate Basin	-	-		
Citywide Canal Dredging	-	-		
Water Quality Studies/Evaluation	19,717	-		
Biscayne Bay Water Quality Impr.	-	-		
TOTAL PROJECT	\$ 419 717	٠ .		

	FIVE-YEAR ESTIMATE										
		20	23						PROJECT		
PF	R YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL		
\$	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
	1	ı	-	-	-	-	-	1	-		
	150,000	1	50,000	200,000	50,000	50,000	50,000	50,000	400,000		
	736,250	1	-	736,250	-	-	-	-	736,250		
	177,237	67,046	-	244,283	-	-	-	-	244,283		
	1,050,000	-	100,000	1,150,000	100,000	250,000	275,000	300,000	2,075,000		
\$	2,113,487	\$ 67,046	\$ 150,000	\$ 2,330,533	\$ 150,000	\$ 300,000	\$ 325,000	\$ 350,000	\$ 3,455,533		

FUNDIN	IG SOURCE		
		HISTORICA	L EXPENSES
FUND	FUNDING	PRIOR	2022
#	TYPE	FUNDING	FUNDING
400	Stormwater	\$ 419,717	\$ -
400	Dept of Envir Protection	-	-
тот	TAL FUNDING	\$ 419,717	\$ -
	•		•

	FIVE-YEAR ESTIMATE										FIVE-YEAR		
2023											PROJECT		
PR	YR AVAIL	OP	EN P.O.		NEW	TOTAL		2024		2025	2026	2027	TOTAL
\$	1,213,487	\$	67,046	\$	150,000	\$ 1,430,533	\$	150,000	\$	300,000	\$ 325,000	\$ 350,000	\$ 2,555,533
	900,000		-		-	900,000		-		-	-	-	900,000
													-
			•		•	-		•			•		-
\$	2,113,487	\$	67,046	\$	150,000	\$ 2,330,533	\$	150,000	\$	300,000	\$ 325,000	\$ 350,000	\$ 3,455,533

FUND	FUNDING	OPERATING EXPENSE							
#	TYPE	TYPE							
PERSON	PERSONAL SERVICES								
TOTAL P	ERSONNEL								
OTHER T	HAN PERSONAL SERVICES								
TOTAL O	TOTAL OTHER THAN PERSONNEL								
TOTAL R	ELATED OPERATING COST								

FIVE-YEAR ESTIMATE									
2023	2024	2025	2026	2027	PROJECT TOTAL				
					\$ -				
					-				
					-				
					-				
-	-	-	-	-	-				
					\$ -				
					-				
					-				
					-				
-	-	-	-	-	-				
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -				

PROJECT NAME:	Coruna Canal Salinity Berm Rehabilitation						
REQUESTING DEPARTMENT	Public Works						
PROJECT LOCATION:	South of Coruna Avenue						
PROJECT TYPE:	Stormwater Improvements	PROJECT ACCOUNTING	c-corunacan				
PRIORITY TYPE:	General Repair	NAME:	C-COLUITACATI				

#### DESCRIPTION

The berm crosses the south side of the canal of Coruna Avenue. A breach had eroded away near the center of the berm, and the bottom of the breach area is only a few inches above water level. Heavy vegetation was noted on the west side of the berm, portions of the east slope were grassy, although some erosion was also noted on the east side. The berm breach will be structurally repaired and the area rehabilitated.

#### JUSTIFICATION

This project entails the north and south earthen dams located in the Coral Bay Subdivision Section C, Gables-by-the-Sea. The construction of salinity dams near the coast, specifically in this case, the construction of the Coral Bay earthen dams in 1972, has prevented and reversed salt-water intrusion into the highly permeable Biscayne aquifer by careful management of the water resources. This project aligns with the City's Strategic Plan's "Sustainability-focused Excellence" objective to "Develop contingency plans and resources to address potential environmental changes such as sea level rise."

PROJEC	T ESTIMATES				
		HIST	ORICA	L EXPEN	SES
		PRIO	R YRS	2022	2
	PHASE/FACILITY	EXPE	NSES	EXPENS	SES
General D	esign	\$	-	\$	-
General C	onstruction		-		-
TOT	AL PROJECT	\$	-	\$	-

	FIVE-YEAR ESTIMATE										
		202	23						PROJECT		
	PR YR AVAIL	OPEN P.O.	NEW	TOTAL	2024	2025	2026	2027	TOTAL		
	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000		
	45,000	-	=	45,000	=	=	=	-	45,000		
Γ				=					-		
				-					-		
	\$ 60,000	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ 60,000		

IG SOURCE									
	HISTORICAL EXPENSES								
FUNDING	PRIOR	2022							
TYPE	FUNDING	FUNDING							
Stormwater	\$ -	\$ -							
AL FUNDING	\$ -	\$ -							
	FUNDING TYPE Stormwater	FUNDING PRIOR TYPE FUNDING Stormwater \$ -							

	FIVE-YEAR ESTIMATE											
	2023									PROJECT		
PR	YR AVAIL	OPEN P.O.	NEW	TOTAL		2024	2025	2026	2027	TOTAL		
\$	60,000	\$ -	\$ -	\$ 60,0	00	\$ -	\$ -	\$ -	\$ -	\$ 60,000		
					-					-		
					-					-		
					-					-		
\$	60,000	\$ -	\$ -	\$ 60,0	00	\$ -	\$ -	\$ -	\$ -	\$ 60,000		

FUND TYPE OPERATING EXPENSE TYPE  PERSONAL SERVICES  TOTAL PERSONNEL  OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL  TOTAL OTHER THAN PERSONNEL  TOTAL RELATED OPERATING COST									
PERSONAL SERVICES  TOTAL PERSONNEL  OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL	FUND	FUNDING	OPERATING EXPENSE						
TOTAL PERSONNEL  OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL	#	TYPE	TYPE						
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL	PERSON	AL SERVICES							
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL									
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL									
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL									
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL									
OTHER THAN PERSONAL SERVICES  TOTAL OTHER THAN PERSONNEL									
TOTAL OTHER THAN PERSONNEL	TOTAL P	ERSONNEL							
	OTHER T	HAN PERSONAL SERVICES							
TOTAL RELATED OPERATING COST	TOTAL O	THER THAN PERSONNEL							
	TOTAL R	TOTAL RELATED OPERATING COST							

		FIVE-YEAR I	STIMATE		
2023	2024	2025	PROJECT TOTAL		
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

PROJECT NAME:	Sunrise Harbor Drainage/Repair Assessment	unrise Harbor Drainage/Repair Assessment									
REQUESTING DEPARTMENT	Public Works										
PROJECT LOCATION:	Sunrise Harbor										
PROJECT TYPE:	Stormwater Improvements	PROJECT ACCOUNTING	c-sun-harb								
PRIORITY TYPE:	General Repair	NAME:	C-Sun-Halb								

#### DESCRIPTION

The project consists of a drainage assessment of the Sunrise Neighborhood and adjacent contributing areas. The project will include a topographic survey of the entire neighborhood, including the existing outfall pipes, proposed drainage solutions aided by computer models, an opinion of cost, and a summary of permitting requirements. The project will recommend actions to improve not only current flooding issues but also water quality discharge to the waterway. The assessment will indicate the scope of the project as well as providing a more clear picture of the total cost of repair. Phase 1 of drainage improvements will be performed along Edgewater Drive, West Sunrise Ave, Morningside Drive and Prospect Drive. These improvements will be designed and constructed to mitigate the existing water ponding issues and flooding that occurs within the area.

#### JUSTIFICATION

Stormwater drainage improvements at Sunrise Harbor Community are necessary to reduce flooding during storm and tidal events. The area has experienced rainfall as well as tidal flooding in several locations causing hazardous conditions. This project aligns with the City's strategic plan objectives to provide exceptional services that enhance local and global environmental quality, enrich our local economy, and strengthen the health and well-being of our current and future residents, businesses and visitors.

PROJECT ESTIMATES	
	HISTORICAL EXPENSES
	PRIOR YRS 2022
PHASE/FACILITY	EXPENSES EXPENSES
General Design	\$ 303,791 \$ 23,923
Sunrise Harbor Phase 1	_
TOTAL PROJECT	\$ 303,791 \$ 23,923

	FIVE-YEAR ESTIMATE													FIVE-YEAR			
			202	23											Р	ROJECT	
PR'	YR AVAIL	OF	PEN P.O.		NEW	Ī	TOTAL		2024		2025		2026		2027	•	TOTAL
\$	10,975	\$	11,311	\$	-	\$	22,286	\$	=	\$	-	\$	-	\$	=	\$	22,286
	-		-		-				100,000		100,000		100,000		100,000		400,000
							-										-
							-										-
\$	10,975	\$	11,311	\$	-	\$	22,286	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	422,286

FUNDIN	IG SOURCE									
		HISTORICAL EXPENSES								
FUND	FUNDING		PRIOR	2022						
#	TYPE	F	UNDING	FU	JNDING					
400	Stormwater	\$	206,356	\$	23,923					
400	Dept of Envir Protection		97,435		-					
TOT	TAL FUNDING	\$	303,791	\$	23,923					

	FIVE-YEAR ESTIMATE										FIVE-YEAR				
	2023												F	PROJECT	
PI	R YR AVAIL	OP	EN P.O.		NEW	•	TOTAL		2024		2025	2026	2027		TOTAL
\$	8,410	\$	11,311	\$	-	\$	19,721	\$	100,000	\$	100,000	\$ 100,000	\$ 100,000	\$	419,721
	2,565		-		-		2,565		-		-	-	-		2,565
							1								-
							-								-
\$	10,975	\$	11,311	\$	-	\$	22,286	\$	100,000	\$	100,000	\$ 100,000	\$ 100,000	\$	422,286

FUND #	FUNDING TYPE	OPERATING EXPENSE TYPE						
PERSON	AL SERVICES							
TOTAL P	ERSONNEL							
OTHER T	HAN PERSONAL SERVICES	S						
TOTALO	THE THAN DEDCOMME							
	THER THAN PERSONNEL							
TOTAL RELATED OPERATING COST								

FIVE-YEAR ESTIMATE					
2023	2024	2025	2026	2027	PROJECT TOTAL
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
					\$ -
					-
					-
					-
					-
-	-	-	-	-	-
\$ -	\$ -	\$ -	\$ -	\$ -	\$ -