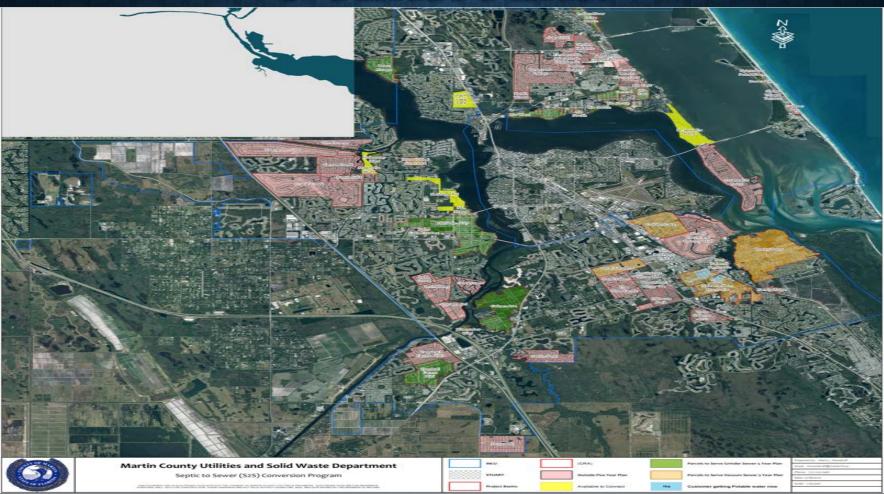
## SEPTIC TO SEWER PROGRAM UPDATE



## Presented By Martin County Utilities January 12, 2021

## **5 YEAR PLAN**



## **5 YEAR PLAN**

Calendar Year										
	Project	Available to Connect	2020	2021	2022	2023	2024	2025	Parcels to Serve (Sewer)	Parcels to Serve (Potable Water)
	Golden Gate	Summer 2022	Vacuum Sewer & Drainage	Vacuum Sewer	Vacuum Sewer, Paving	·	· '	ſ′	764	0
We	Woodside / Stratford Downs	Fall 2022	· · · · · · · · · · · · · · · · · · ·	·	Vacuum Sewer, Drainage & Paving	· /	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	78	0
n Se	Old Palm City	Fall 2023	Drainage	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water, Paving	Paving	· '	1015	377
Ę	Port Salerno -New Monrovia	Fall 2024	Potable Water (portion or area)	Drainage	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water, Paving	Original 454-164 (PCLs getting water now) leaves 290	<sup>9</sup> 952	290
Vac	Coral Gardens	Fall 2025	· · · · · · · · · · · · · · · · · · ·		Drainage	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water	Vacuum Sewer & Potable Water, Paving	638	o
	Rocky Point	Fall 2026	, <u> </u>		·'	·	Drainage	Vacuum Sewer & Potable Water	1198	383
							Totals:	:>	4645	1050
	Mapp Road North	Connected: (50)	Grinder Sewer						201	0
	Palm Lake Park	Connected: (19)	Grinder Sewer, Potable Water & Paving						224	224
	Magnolia Bluff	Connected: (10)	Grinder Sewer						106	o
	Sewall's Point North	Connected: (20)	Grinder Sewer						223	o
	Tropical Farms Phase I	Fall 2020	Grinder Sewer, Potable Water & Paving		( <u> </u>	ſ <u></u> '	ſ <u></u> '	ſ <u> </u>	272	0
	Bluewater Way	Winter 2020	Grinder Sewer	( <u> </u>	( <u> </u>	( <u> </u>	ſ <u></u> '	ſ <u></u> ′	25	•
	Indian River Drive North	Winter 2020	Grinder Sewer & Potable Water		( <u> </u>	I'	ſ <u></u> '	·′	114	114
	Palm Lake Estates	Spring 2021	Drainage & Grinder Sewer	Drainage, Grinder Sewer, & Paving	·'	·	ſ <u></u> '	[′	48	0
Sewer	Rio West	Spring 2021	[]	Grinder Sewer	( <u> </u>	·/	ſ <u></u> '	[′	281	0
r s	Spinnaker Point Place	Summer 2021	<u> </u>	Grinder Sewer	·'	·/	ſ <u> </u>	·′	12	0
Grinder	Shore Village Terrace	Summer 2021	<u> </u>	Grinder Sewer	·'	·	/ <u> </u>	[′	10	0
Ē	Rosewalk	Summer 2021	<u> </u>	Grinder Sewer	ı'	·'	ſ <u></u> '	ſ <u></u>	8	0
	Beau Rivage	Summer 2021	<u> </u>	Drainage, Grinder Sewer, Potable Water & Paving	·'	· · · · · · · · · · · · · · · · · · ·	ſ'	·′	270	270
	Rio South	Fall 2021	<u> </u>	Grinder Sewer	·'	·'	/ <u> </u>	/ <u> </u>	134	0
	Gaines Avenue	Winter 2021	Grinder Sewer & Drainage	Grinder Sewer, Potable Water, Drainage, & Paving	·'	·'	· '	ſ <u> </u>	157	157
	Hideaway Isles	Winter 2021	Grinder Sewer & Potable Water	r Grinder Sewer & Potable Water		·'	· '	/′	72	72
	Port Salerno Peninsula	Summer 2022	<u> </u>		Drainage, Grinder Sewer & Paving	· · · · · · · · · · · · · · · · · · ·	·'	· · · · · · · · · · · · · · · · · · ·	116	o
	Mapp Road NE	Summer 2022	· · · · · · · · · · · · · · · · · · ·		Drainage, Grinder Sewer, & Paving	·'	·'	· · · · · · · · · · · · · · · · · · ·	53	o
	Rio Central	Summer 2022	,,		Grinder Sewer	//	· '	· · · · · · · · · · · · · · · · · · ·	241	o
	Rio East	Summer 2023	· · · · · · · · · · · · · · · · · · ·		·'	Grinder Sewer	· '	· · · · · · · · · · · · · · · · · · ·	182	o
							Totals:	:>	2749	837

\* This document is accurate as of November 1st, 2020. This document is for planning purposes only and schedule is subject to change. \*

## VACUUM SEWER SYSTEMS

North River Shores Phase II

- Completed July 2019
- 299 ERC's
- 234 Connected (78%)
- \$11,708 / ERC

Golden Gate

Old Palm City

Port Salerno / New Monrovia

- Construction Starts January 2021
  834 ERC's
  \$11,651 / ERC
- Construction Starts Fall 2021
- 1,075 ERC's
- \$11,500 / ERC (estimate)
- Begin Design February 2021
- 952 ERC's
- <\$12,000 / ERC (per BOCC)

Lightweight valve pits, capable of bearing traffic loads are easily installed and typically serve two or more homes



Vacuum mains use

integrity, vacuum construction period.



AIRVAC assembles and tests the mechanical and electrical equipment of the vacuum station at its factory. The skid-mounted equipment is delivered to the job site and placed into the vacuum station building.





Collection

Chamber

The vacuum station building that houses the mechanical and electrical equipment is designed to fit the characteristics of the neighborhood.



mall diameter pipes installed in hallow, narrow renches. Because of these factors, the mains are typically installed adjacent to the pavement, minimizing road restoration.

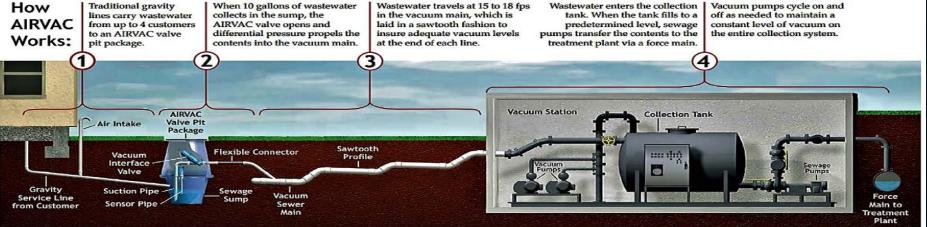


Disruption to the community during the construction period is kept to a minimum with vacuum sewers resulting in less surface restoration being required.

Vacuum stations provide a clean, safe environment for maintenance personnel as all sewage is completely contained within the collection tank

Wastewater enters the collection

Vacuum pumps cycle on and constant level of vacuum on the entire collection system.



# **GRINDER SEWER SYSTEMS**

\* N. Mapp Road
\* Palm Lake Park
\* Jensen CRA
\* N. Sewall's Point
\* Magnolia Bluff
• Hideaway Isles

<u>200</u> ERC's	78 Connected	<u>39</u> %						
<u>222</u> ERC's	21 Connected	<u>9</u> %						
<u>17</u> ERC's	15 Connected	<u>88</u> %						
<u>213</u> ERC's	37 Connected	<u>17</u> %						
<u>108</u> ERC's	19 Connected	<u>18</u> %						
<u>74</u> ERC's								
Bids Rec'd Dec. 2020								
<b>Construction Starts Spring 2021</b>								





Minimal trench width for the force main exiting the Grinder Pump Station



The Martin County contractor installing our Grinder System takes special care that your surrounding landscape is not damaged during installation

All HDPE pipe components are joined using electrofusion welding



Typical finished view of an installed Residential Grinder Pump Station



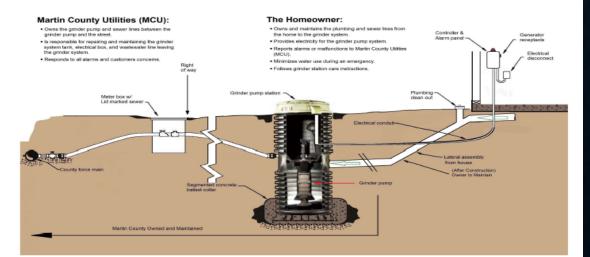
### Martin County

#### "Connect to Protect " Program

This program was created to assist homeowners in selected areas with converting their onsite sewage treatment and disposal systems, typically septic tanks with drain fields, to the Martin County Utilities (MCU) sanitary sewer system.

This program is a "*one-stop shop*" that streamlines the process for homeowners while providing financial incentives to connect. MCU will have licensed contractors install the grinder pump and all appurtenances, including the septic tank abandonment and electrical at the home and connect to our system. MCU will fully maintain the grinder system in perpetuity.

#### TYPICAL RESIDENTIAL GRINDER STATION DETAIL



## **INSTALLATION CALENDAR**

### Decemb

SUNDAY Nov 29

6

13

20

be	r 2020			December 2020           Su         Mo         Tu         We         Th           1         2         3         3         3         1         1         2         3           6         7         1         2         3         1	Fr         Sa         Su         Mo           4         5         3         4           11         12         3         4           18         10         10         11           25         26         24         25           31         25         31         10	January 2021 <u>Tu We Th Fr Sa</u> 5 6 7 8 9 12 12 14 15 16 19 20 21 25 23 26 27 28 29 30
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	30	Dec 1	2	3	4	5
	7 9:00am 20 Banyan Rd. N_Sewalls Pt. 12:30pm 14 Palm Ct. N_Sewalls Pt.	8	9	10 9:00am 21 N River Rd. N_Sewalls Pt. 12:30pm 8 Knowles N_Sewalls Pt.	11	12
	14 9:00am 16 Perriwinkle Ln. N_Sewalls Pt. 12:30pm 968 NW 13th St. Palm Lake Park	15	16	17 8:30am 1101 SW Pine Tree Ln. Magnolia 11:30am 1890 NE Church St. Jensen 1:30pm 3419 NE Savannah Rd. Jensen	18	19
	21 9:00am 2064 SW Mockingbird Ln. Magnolia Bluff 12:30pm 906 SW Magnolia Bluff Dr. Magnolia Bluff	22	23 9:00am 2095 SW Gull Harbor N_Mapp PC 12:30pm 1086 SW Magnolia Bluff Dr. Magnolia Bluff	24	25	26
	28	29	30	31	Jan 1, 21	2

9:00am 461 SW Pine Tree In. Magnolia Bluff 12:30pm 682 SW Pine Tree Ln. Magnolia

Bluff

27

### **SOLAR & ENERGY LOAN FUND**

The Board of County Commissioners approved the First Amendment to the Agreement between Martin County and SELF adding specific terms to expand SELF lending activities to include a Grinder Sewer System Installation program. SELF will provide financing under this program to at least one hundred (100) and up to two hundred (200) qualified applicants during the term of this Agreement if the County provides internal contributions of \$1,000 to qualified applicants of the program. Each financing under this program will be for \$7,000 financed over 120 months at \$85.00 per month. SELF may provide additional funding to applicants outside of this program, including to cover any remaining costs of connection for the same transaction.

> October 13, 2020 Agenda Dept 4

### **GRANT FUNDING SUMMARY**

### Martin County Utilities Funding Opportunity Tracking

#### Funding Assistance for Septic to Sewer Projects

Program Name	Program Info	Program FY	Submittal Deadline (mm/dd/yy)	MC Total Loan or Match (\$)	Requested Dollars (\$)	Approved Dollars (\$)	Status of Funding
FDEP SRF Program							
1 State Revolving Loan Clean Water Program				Total SRF Loan RFI 1			
	Overall System		Submit any time,				Draft Facilities
1.1 MC Overall Septic to Sewer Wastewater Systems	S2S Connections	FY 2021-23	Try qtrly approval	\$135,686,530	\$54,090,280	\$0	Plan
2 State Revolving Loan Drinking Water Program	· · ·			Total SRF Loan	RFI 1		
	Water with the		Submit any time,				Draft Facilities
2.1 MC Drinking Water Systems with S2S	S2S Connections	FY 2021-23	Try qtrly approval	\$23,420,081	\$14,157,581	\$0	Plan
FDEP SRF Total				\$159,106,611	\$68,247,861	\$0	
EDED Manualist Course Manual and Decement							
FDEP Nonpoint Source Management Program 3  FDEP 319(h) Grant				MC Match	Request		
5 FDEP 519(II) Grant	500 Vacuum	1		MC Match	Request		FDEP satisfied;
	Sewer & 250						EPA approval late
3.1 Golden Gate Septic to Vacuum Sewer & Grinder PS Projects	Grinder PS ERCs	FY 2021	04/30/20	\$2,325,000	\$750.000	\$0	summer
	750 Vacuum	2021	0.000.20	\$2,525,000	\$100,000	**	
	Sewer & 100						FDEP confirmed
3.2 Old Palm City Septic to Vacuum Sewer & Grinder PS Projects	Grinder PS ERCs	FY 2022	12/04/20	\$1,755,000	\$850,000	\$0	receipt
FDEP Nonpoint Total				\$4,080,000	\$1,600,000	\$0	
IRL Council Grant Programs							
4 IRL Council and IRLNEP Water Quality Restoration Grant Program	150.0.1.1.00			MC Match	Request		
	150 Grinder PS	EV 2020 24	04/47/00		A 4 5 9 9 9 9	A . 50 000	Approved full
4.1 MCU Overall Grinder PS Projects	ERCs 150 Grinder PS	FY 2020-21	01/17/20	\$510,000	\$150,000	\$150,000	request
4.2 MCU Overall Grinder PS Projects		FY 2021-22	01/11/21	\$0	\$0	\$0	Preparing submittal
	LINGS	1 1 2021-22	01/11/21	-	-		Submittai
IRL Council Total		I	l	\$510,000	\$150,000	\$150,000	
SFWMD Grant Programs							
5 WMD IRL Water Quality Improvement Project Grant				MC Match	Request		
	Old Palm City						SFWMD approved
5.1 Old Palm City Septic to Vacuum Sewer Main System Project	Vacuum System	FY 2020-21	08/21/20	\$12,000,000	\$2,500,000	\$2,500,000	full request
SFWMD Total				\$12,000,000	\$2,500,000	\$2,500,000	

### CONNECT TO PROTECT SEPTIC TO SEWER CONVERSION PROJECT AREAS

#### Martin County BOCC Connect to Protect Septic to Sewer Conversion Project Areas North River Shores Vacuum Sewer Phase II DATE IN SERVICE TOTAL PARCELS CONNECTED PENDING PERCENTAGE 299 240 15 80% July-19 N Mapp Rd Grinder Sewer DATE IN SERVICE TOTAL PARCELS CONNECTED PENDING PERCENTAGE October-19 200 84 25 42% Palm Lake Park waiting on financing option DATE IN SERVICE TOTAL PARCELS CONNECTED PENDING PERCENTAGE 222 21 21 9% January-20 Jensen CRA waiting on financing option TOTAL PARCELS CONNECTED PENDING PERCENTAGE DATE IN SERVICE October-19 17 15 2 88% N Sewalls Point Rd DATE IN SERVICE TOTAL PARCELS CONNECTED PENDING PERCENTAGE Jun-20 213 37 29 17% Magnolia Bluff waiting on financing option DATE IN SERVICE TOTAL PARCELS CONNECTED PENDING PERCENTAGE 108 19 10 18% Jun-20 **Tropical Farms** waiting on financing option TOTAL PARCELS CONNECTED PERCENTAGE DATE IN SERVICE PENDING 272 0 28 0% Jan-21 waiting on financing option Misc. Grinders 56 15 Parcels Connections Pending Percentage Totals 1331 472 145 35%

updated 1/5/2021

11