

ANNUAL UPDATE AND INVENTORY REPORT ON PUBLIC FACILITIES 2020

CATEGORY “A” FACILITIES (Concurrency Regulated)

1. County Arterial & Collector Roads & Bridges
2. Stormwater Management System
3. Potable Water System
4. Wastewater Collection & Treatment Systems
5. Solid Waste Disposal
6. Collier County Schools – Capital Improvement Plan
7. Parks and Recreation Facilities
 - Community Park Land
 - Regional Park Land
8. CIE Amendment Submittals for Category A Facilities
 - Exhibit “A”, Capital Improvements (Next 5 Years)
 - Appendix “H”, Capital Improvements (Future Years 6 – 10)

COUNTY ROADS & BRIDGE FACILITIES

CONTENTS

- **COUNTY ARTERIAL AND COLLECTOR ROADS & BRIDGES – SUMMARY**
- **ATTACHMENT A: FIVE YEAR REVENUES – PREVIOUS vs. CURRENT AUIR**
- **ATTACHMENT B: TRANSPORTATION SYSTEM EXISTING CONDITIONS REPORT**
- **ATTACHMENT C: PERCENTAGE CHANGE IN PEAK HOUR DIRECTIONAL VOLUME FROM PREVIOUS YEAR – MAP**
- **ATTACHMENT D: PROPOSED TRANSPORTATION 5-YEAR WORK PROGRAM**
- **ATTACHMENT E: ROAD FINANCING PLAN UPDATE**
- **ATTACHMENT F: TRANSPORTATION PLANNING DATABASE TABLE**
- **ATTACHMENT G: DEFICIENT ROADS REPORT UPDATE**
- **ATTACHMENT H: PROJECTED DEFICIENT ROADS – MAP**
- **ATTACHMENT I: TRANSPORTATION CONCURRENCY MANAGEMENT AREA REPORT – EAST CENTRAL TCMA AND NORTHWEST TCMA**
- **ATTACHMENT J: ACTIVITY REPORT ON CONTINUING PROJECTS UNDER CONTRACT**

2020 AUIR FACILITY SUMMARY

Facility Type: County Arterial and Collector Roads (Category A)

Level of Service Standard: Variable - "D" or "E"

Unit Cost: Variable (Average = \$6,005,000/ lane mile) Per Current Approved Transportation Impact Fee

Recommended Work Program FY 21-25	\$653,634,000
Recommended Revenues FY21-25	\$653,634,000
Five-Year Surplus or (Deficit)	\$0

1. Existing Revenue Sources:

A. Current Revenues CIE FY 21-25

Sales Tax	\$190,843,000
Gas Taxes	\$118,552,000
Impact Fees / COA	\$77,460,000
General Fund 001/111	\$61,623,000
Grants/Reimbursements/DCAs/Interest	\$55,247,000
Unfunded Needs	\$100,137,000
SUB TOTAL	\$603,862,000
Carry Forward	\$59,834,000 *
Less 5% Required by Law	(\$10,062,000)
TOTAL	\$653,634,000

2. Supplemental Revenue Sources:

A. Alternative I

None Required

B. Alternative II

None Required

Recommended Action:

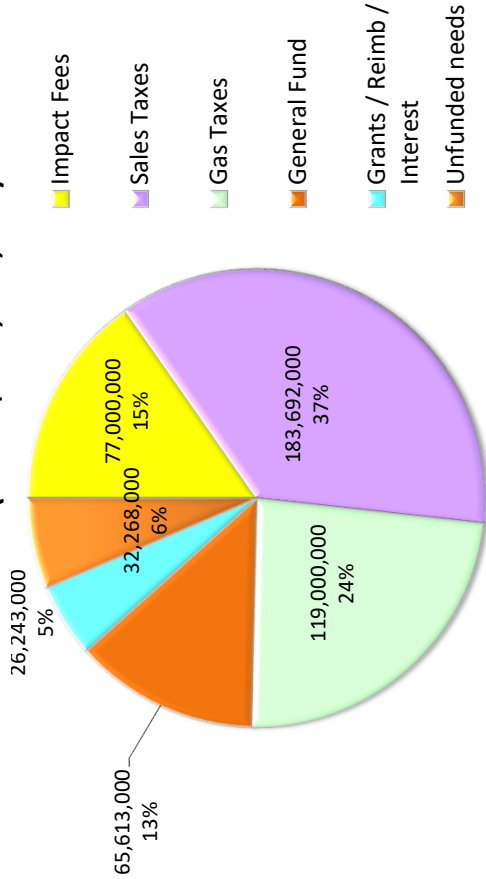
That the BCC direct the County Manager or his designee to include County road projects appearing on "Proposed Transportation Five-Year Work Program," (Attachment D), as detailed in the "Collier County Transportation Planning Database" (Attachment F), in the next Annual CIE Update and Amendment with the application of revenues outlined on the Road Financing Plan (Attachment E) to establish statutorily required financial feasibility of the CIE.

* Carry Forward includes the budgeted FY21 Carry forward and does not include project funding encumbered in prior fiscal years. The actual Carry Forward number that includes the roll of encumbrances is not available until after October 1, 2020. Attachment J provides a snapshot of prior year FY20 project activity as of June 30, 2020 for continuing projects. Project costs are generally paid out over the following schedule for phases (average time for payout):

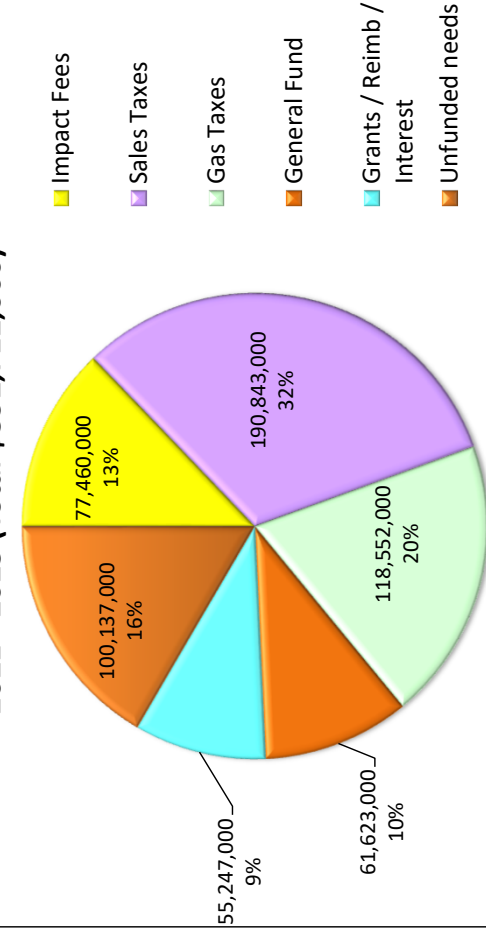
		5 YEAR PROJECT DURATION AFTER 2 YEAR PLANNING CYCLE IS COMPLETE				
		1	2	3	4	5
1.	Design - 25 months	DESIGN				
2.	Right-of-Way - 4 years		RIGHT-OF-WAY			
3.	Construction - 30-36 months			CONSTRUCTION		

Note: FY 2020 Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements. Expenditures are based on current unit cost.

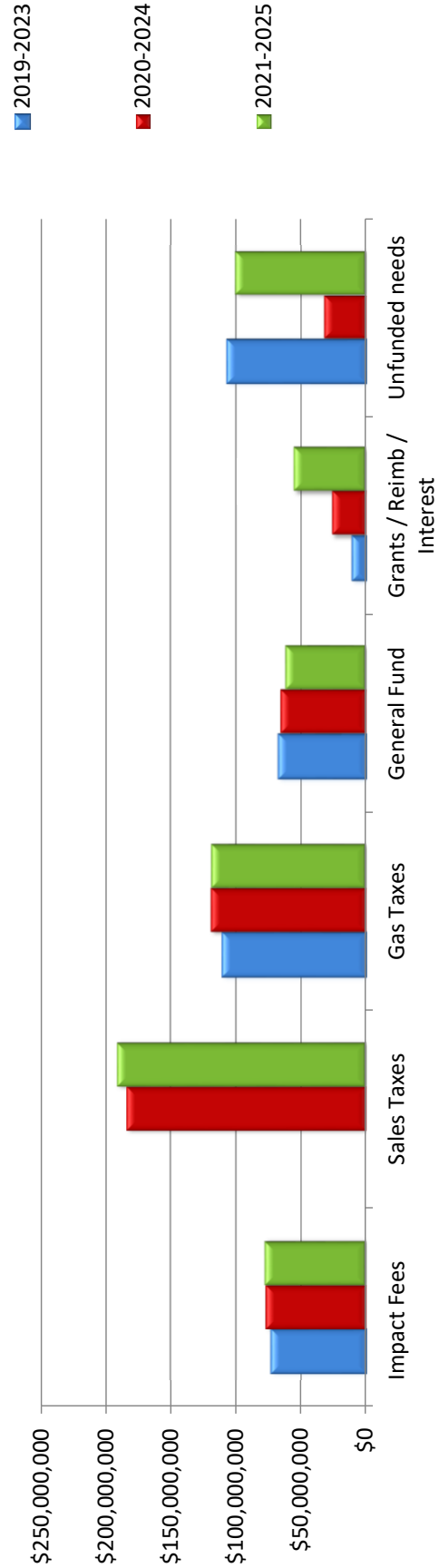
2020 - 2024 (Total \$503,816,000)



2021 - 2025 (Total \$592,712,000)



Funding Source Trends: Five Year Projections



*Charts do not include a Carry Forward or negative Revenue Reserve.

Attachment “B”

TRANSPORTATION EXISTING CONDITIONS REPORT – 2020

Objective

To provide the Board of County Commissioners with an “existing conditions” analysis of the transportation system in Collier County.

Purpose

This analysis is provided to assist in the preparation of the Annual Update and Inventory Report (AUIR), and more specifically to assist in the determination of adequate (transportation) public facilities and to guide budgeting and project programming in the CIE.

Considerations:

- The traffic counts are collected on an annual, seasonal, or quarterly basis, and are factored as needed to determine a peak hour peak directional volume. The factors used include a directional factor and a seasonal factor that varies depending on the week that the traffic count was conducted.
- The Level of Service (LOS) threshold volumes are calculated using ARTPLAN and HIGHPLAN software. Measured volume is based on the 250th highest hour, which essentially equates to the 100th highest hour after omitting February and March data, consistent with the Growth Management Plan and Land Development Code provisions. The remaining capacity is based on the difference between the LOS threshold volume and the calculated existing plus trip bank volume.
- The LOS for each roadway segment is identified in Attachment “F” for the current year. Additionally, traffic volumes are forecasted for future years which yields an estimated “Year Expected Deficient” that is used in the planning and programming of future improvements. The Existing LOS and the forecasted LOS are expressions of operating conditions during the peak hours of the peak seasonal day, which corresponds to the same time period as the adopted minimum acceptable LOS Standards in the Growth Management Plan. While the adopted LOS standard and evaluated condition must be expressed for the peak period, it is important to recognize that the roadway’s LOS will be better during most other portions of the day, and especially during non-peak season periods.
- The AUIR deals with system capacity and maintaining the established LOS through our Concurrency Management System. As the system expands, there is a growing need to focus our attention on the condition of existing facilities and the demand for Operations and Maintenance (O&M) funding. Our bridges and culverts are approaching or are at their 50-year life-cycle. Over 250 additional lane miles of urban and rural, arterial, and local roads have been added to the county system for maintenance since 2000. Historical funding for O&M has not addressed industry standards for anticipated life-cycles which are 6 to 8 years for urban roadways and 12 to 15 years for rural roadways. Gas taxes are already at the maximum allowed by statute. Complicating this issue is the reliance on impact fees as directed by our “growth pays for growth” policy which can only be used to add additional capacity or new lane miles to the system. The prior aggressive program to add capacity allowed existing system mileage to be rebuilt and the mileage to be maintained throughout the construction cycle by the contractor. Volatile impact fee rates and revenues alone cannot sustain a multi-year capital program that provides improvements concurrent with the impacts of development. Capacity expansion projects require a multi-year funding plan to meet the 7-year construction cycle that includes: planning, design, ROW acquisition, permitting and construction. LOS standards already set at the lowest acceptable levels of “D” or “E”.

Observations

Of the 129 stations (covering 141 unique Segment ID's) collecting traffic counts in the 2019/2020 program, the average increase in measured overall volume between 2019 and 2020 was 7.50% system-wide. By comparison, the average increase between 2018 and 2019 reported in last year's AUIR was 2.13%.

When reviewing only higher capacity, multi-lane roadway segments in the County's network (only those with capacity over 1,000 vehicles per hour in the peak direction during the peak period) an average increase of 7.89% was experienced over 2019.

For the 2019/2020 traffic counts, 15 segments reflected a decrease over the previous year, 75 segments reflected an increase over the previous year, and 51 remained unchanged (+/-5%). Listed below are the numbers and corresponding percentages for the count stations, including the percentage changes between 2019 and 2020:

- 13.5% (19 segments) show an increase greater than 20% compared to 2019
- 17.7% (25 segments) show an increase of 10-20% compared to 2019
- 22.0% (31 segments) show an increase of up to 5-10% compared to 2019
- 36.2% (51 segments) show an insignificant change of -5% to 5% compared to 2019
- 5.7% (8 segments) show a decrease of 5-10% compared to 2019
- 5.0% (7 segment) show a decrease of 10-20% compared to 2019
- 0% (0 segments) show a decrease of greater than 20% compared to 2019

Note: Some count stations experienced significant year-to-year fluctuations due to construction avoidance.

Several segments of State roads are predicted to be deficient when "trip bank" reserved capacity trips are added to existing volumes. Projected deficient segments on the East Tamiami Trail are located within the Transportation Concurrency Exception Area (TCEA), and development impacting these segments is subject to the TCEA's mitigation strategies. Other potentially deficient State road segments are currently programmed in the FDOT Work Program with improvements intended to add capacity to resolve any potentially deficient conditions.

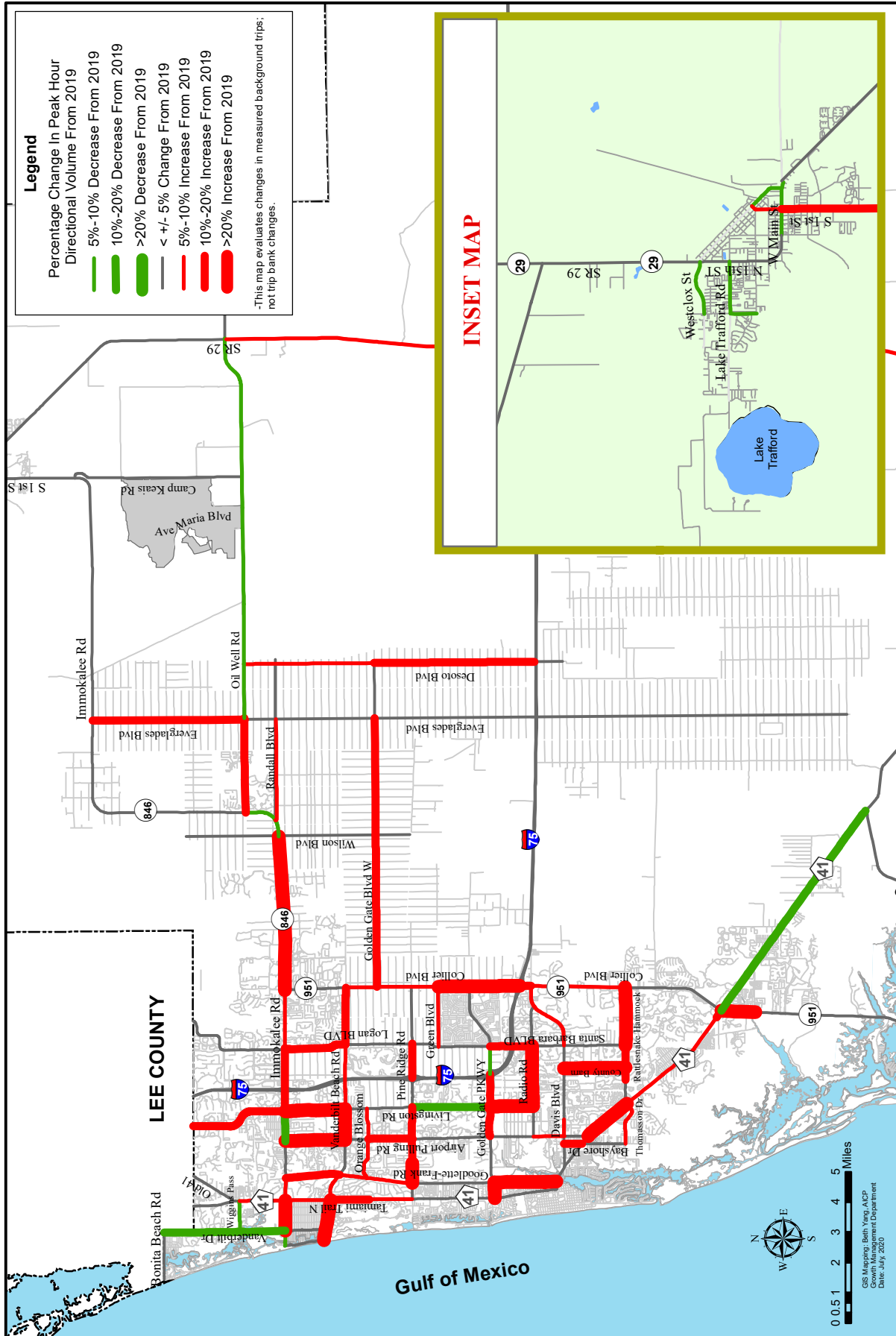
Although traffic data collected by Florida Department of Transportation (FDOT) on the segments of I-75 between each interchange is not needed for the AUIR, because the change in mainline volumes correlates with changes in interchange ramp volumes, the mainline volumes are monitored/evaluated each year for informational purposes. A review of the most recent average annual growth rates for the last 3 and 5-year timeframes depicts an increase in traffic along all mainline segments of I-75 in the urban area as shown in **Table 1**.

TABLE 1: I-75 Historical Annual Average Daily (AADT) Traffic Volumes (2-Way)

		North of Immokalee Road	North of Pine Ridge Road	North of Golden Gate Pkwy	West of Collier Blvd	West of Everglades Blvd
	2019	105,903	89,215	79,000	45,000	26,404
	2018	99,582	89,362	76,500	41,500	24,970
	2017	97,387	82,348	79,000	43,500	24,968
	2016	97,041	80,453	72,500	39,500	24,597
	2015	92,399	76,809	70,000	40,500	23,127
	2014	85,506	70,332	64,000	36,500	21,320
	2013	79,834	65,423	58,000	34,500	20,221
	2012	75,022	62,897	55,000	31,000	19,444
	2011	74,500	61,224	55,000	31,500	19,204
	2010	75,500	59,784	55,000	32,500	19,484
	2009	77,000	58,578	32,500	34,000	19,114
Total % Increase	10-Yr 2009-2019	37.5%	52.3%	143.1%	32.4%	38.1%
Avg Annual % Increase	10-Yr 2009-2019	3.2%	4.3%	9.3%	2.8%	3.3%
Avg Annual % Increase	5-Year 2014-2019	4.4%	4.9%	4.3%	4.3%	4.4%
Avg Annual % Increase	3-Year 2016-2019	3.0%	3.5%	2.9%	4.4%	2.4%

Source: Florida Department of Transportation

ATTACHMENT C



Growth Management Department Transportation Planning

Percentage Change In Peak Hour Directional Volume From 2019

Attachment D
Roads & Bridges
2021 5 Year Work Program
(Dollars shown in Thousands)

Project #	Project Name	FY21 Amount	FY21	FY22 Amount	FY22	FY23 Amount	FY23	FY24 Amount	FY24	FY25 Amount	FY25	FY 21-25 Amount
	SUMMARY OF PROJECTS											
60168	Vanderbilt Beach Rd/Collier Blvd-16th	600	R	94,700	C							95,300
60201	Pine Ridge Rd (Livingston to I75)	1,500	D			42,500	D/C/M					44,000
60606	11 Bridge Replacements	33,100	D/C/M								PR	33,100
60147	Randall/Immokalee Road Intersection	2,500	R			12,600	C/M					15,100
60190	Airport Rd Vanderbilt Bch Rd to Immokalee Rd	3,100	D/R	14,800	C/M							17,900
60215	Triangle Blvd/Price St	6,800	R/C									6,800
60212	New Golden Gate Bridges (10)			15,500	D/C	6,100	D/C	27,000	D/C	8,600	D/C	57,200
60241	16th Street NE Bridge	11,800	D/C/M									11,800
60228	Sidewalks	1,416	D/C	2,281	D/C	1,251	C	4,895	C			9,843
60198	Veterans Memorial PH I and PH 2	7,000	D/A/C									7,000
60198	Veterans Memorial PH II HS to US41	1,000	R	2,700	R/D	13,400	C/M					17,100
60199	Vanderbilt Beach Rd (US41 to E of Goodlette)									13,500	D/C	13,500
60219	Whippoorwill	700	C									700
60129	Wilson Benfield Ext (Lord's Way to City Gate N)	5,000	R/A	1,000	R/A	1,000	R/A	1,000	R/A	1,000	R/A	9,000
TBD	Santa Barbara/Logan Turnlanes							879	D	7,879	C	8,758
60144	Oil Well (Everglades to Oil Well Grade)	2,000	A	300	A	300	A	300	A	300	A	3,200
33563	Tiger Grant	13,000	C									13,000
70167	Business Center (City Gate)	10,250	A	7,400	C			9,500	C			27,150
68056	Collier Blvd (Green to GG Main Canal)					38,200	R/D/C					38,200
60065	Randall Blvd/Immokalee Rd to Oil Well 8th to Everglades	250	R					3,000	D			3,250
TBD	Goodlette Rd (VBR to Immokalee Rd)					2,309	D	634	A	9,366	A	12,309
TBD	Green Blvd (Santa Barbara Blvd to Sunshine)					500	S					500
60229	Wilson Blvd (GG Blvd to Immokalee)	7,100	D/R					20,500	C			27,600
TBD	Vanderbilt Bch Rd (16th to Everglades)			2,800	D/R/M	11,250	R/A	5,000	R/A			19,050
TBD	Poinciana Professional Park					300	C					300
TBD	Immokalee Rd (Livingston to Logan)							1,000	S/A			1,000
60016	Intersections Improvements Shoulder Widening	217		300		300		550		400		1,767
60226	16th Ave (13th St SW to 23rd St SW) Shoulders			1,350	C							1,350
60227	Corkscrew Rd (Lee County Line) Shoulders					1,200	C					1,200
TBD	Randall Blvd (Immokalee Rd to Desoto Blvd)Shoulder					100	DC	1,450	C			1,550
60233	Corkscrew Rd (Lee Cnty Line to SR82 Curve)	1,400	C									1,400
60242	Randall Blvd at Everglades Blvd	625	DC	350	C							975
TBD	Immokalee Rd at Northbrooke Dr/Tarpon Bay Blvd		DC	1,000	DC							1,000
60237	Everglades Blvd (Oil Well to Immokalee Rd)Shoulder									1,600	D/C	1,600
60073	Davis Mystic DCA Reimb	500										500
	Contingency											-
	Total	109,858		144,481		131,310		75,708		42,645		504,002
	Operations Improvements/Programs	FY21		FY22		FY23		FY24		FY25		FY 21-25
66066	Bridge Repairs/Improvements	2,500		6,000		6,500		6,500		2,500		24,000
60130	Wall/Barrier Replacement	456		250		250		250		250		1,456
60131	Road Resurfacing 111/101	10,000		6,000		8,000		8,000		8,000		40,000
60128	Limerock Road Conversion 111											-
60077	Striping and Marking	800		800		800		800		800		4,000
60172	Traffic Ops Upgrades/Enhancements	732		725		725		725		25		2,932
60189	LED Replacement Program											-
60118	Countywide Pathways/Sidewalks Non PIL /LAP	565		300		750		750		750		3,115
69081	Pathways/Sidewalks Bike Lanes Maint/Enhanc											-
60037	Asset Mgmt	251		100		100		100		100		651
60146	TMC Relocation Fund 310											-
60197	RM Facility Fund 310	500		500		500		500		500		2,500
69331-339	District 1,2,3,4,5,6 Sidewalk PIL											-
60191	Lap Design Phase											-
	Subtotal Operations Improvements/Programs	15,804		14,675		17,625		17,625		12,925		78,654
60066	Congestion Mgmt Fare											-
60240	Traffic Calming	50	D/C	50	D/C	50	D/C	50	D/C	50	D/C	250
60085	TIS Review	250	S	250	S	250	S	250	S	250	S	1,250
60088	PUD Monitoring											-
60109	Planning Consulting	500	S	500	S	500	S	500	S	500	S	2,500
60163	Traffic Studies	300	S	300	S	300	S	300	S	300	S	1,500
60171	Multi Project											-
	Transfer to Fund 325 STO											-
	Advance/Repay to Fund 325 STW	11,318										11,318
	Impact Fee Refunds			250		250		250		250		1,000
	Debt Service Payments	13,317		13,131		13,136		13,576				53,160
	Total Funding Request All Funds	151,397		173,637		163,421		108,259		56,920		653,634
	REVENUES	FY21		FY22		FY23		FY24		FY25		FY 21-25
	Sales Tax	48,782		95,781		32,385		13,895				190,843
	Impact Fees Revenue	15,460		15,500		15,500		15,500		15,500		77,460
	COA Revenue											-
	Gas Tax Revenue	23,052		23,500		23,750		24,000		24,250		118,552
	DCA	534										534
	Grants/Reimbursements*	19,434		4,928		9,800		-		6,806		40,968
	Grant from 711 60200											-
	Transfer 001 to 310	9,067		9,389		9,389		9,389		9,389		46,623
	Transfer 111 to 310	3,000		3,000		3,000		3,000		3,000		15,000
	Interest Gas Tax-Impact Fees	2,245		1,000		1,000		1,000				5,245
	Carry Forward 313-310-Impact Fees	59,834										59,834
	Potential Debt Funding/Unfunded Needs					56,637		43,500		-		100,137
	Expected FEMA Reimbursement			8,500								8,500
	Revenue Reserve 5%	(1,962)		(2,025)		(2,025)		(2,025)		(2,025)		(10,062)
	Total Revenues	179,446		169,573		149,436		108,259		56,920		653,634
	Gross Surplus/Shortfall	28,049		(14,064)		(13,985)		-		-		-
	Cummulative Surplus/Shortfall	28,049		13,985		-		-		-		-
	Project	FY21		FY22		FY23		FY24		FY25		
	16th St Bridge	4,934										
	11 Bridge Immokalee-CR846									2,592		
	Tiger Grant	13,000										
	VBR US41 to Goodlette									4,214		
	Collier Blvd GG to Green					1,600						
	Goodlette VBR to Immokalee					2,750						
	Pine Ridge Livingston					5,450						
	Airport VBR to Immokalee	1,500		4,928								
	Total	19,434		4,928		9,800		-		6,806		
	Key:											
	A = Adv Construction / S = Study / D = Design											
	M = Mitigation / C = Construction / R = ROW											
	LS = Landscape / L = Litigation / I = Inspection											
	AM = Access Mgmt / LP = SIB Loan Repayment											
	@ = See separate supplemental maps											
	**The 5-cent Local Option Fuel Tax is earmarked towards debt service, bridges, and intersection improvements.											
	Sales Tax Projects:	FY21		FY22		FY23		FY24		FY25		FY 21-25
60215	Vanderbilt Beach Ext			74,000								74,000
60212	Pine Ridge Rd (Livingston Intersection Imp)	1,500				21,500						23,000
60212.1	11 Bridge Replacements	33,000										33,000
TBD	Immokalee/Randall Rd Intersection					7,000						7,000
60228	Airport Rd VBR to Immokalee			4,000								4,000
	Triangle Blvd/Price St	6,000										6,000
	New Golden Gate Bridges (11)			15,500		2,634						18,134
	47th Street Bridge							9,000				9,000
	16th Street Bridge	6,866										6,866
	Sidewalks	1,416				1,251		4,895				8,843
	Total	48,782		95,781		32,385		13,895		-		190,843

Attachment "E"

Road Financing Plan Update

	FY 21	FY 22	FY 23	FY 24	FY 25	5 Year Total
Project/Program Commitments						
Existing Debt Service	138,080,000	160,256,000	150,035,000	94,433,000	56,670,000	599,474,000
Impact Fee Refunds	13,317,000	13,131,000	13,136,000	13,576,000	-	53,160,000
	-	250,000	250,000	250,000	250,000	1,000,000
Total Expenses	151,397,000	173,637,000	163,421,000	108,259,000	56,920,000	653,634,000
Sales Tax Revenue						
Impact Fee Revenue / COA Revenue	48,782,000	95,781,000	32,385,000	13,895,000	-	190,843,000
DCA	15,460,000	15,500,000	15,500,000	15,500,000	15,500,000	77,460,000
	534,000	-	-	-	-	534,000
Gas Tax Revenue	23,052,000	23,500,000	23,750,000	24,000,000	24,250,000	118,552,000
Debt Svc General Fund Transfer	9,067,000	9,389,000	9,389,000	9,389,000	9,389,000	46,623,000
Transfer in from Fund 111	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Interest Gas Tax/Impact Fee	2,245,000	1,000,000	1,000,000	1,000,000	-	5,245,000
Grants/Reimbursements *	19,434,000	13,428,000	9,800,000	-	6,806,000	49,468,000
Unfunded needs	-	-	56,637,000	43,500,000	-	100,137,000
Revenue Reserve (5% Budgeted by Statute)	(1,962,000)	(2,025,000)	(2,025,000)	(2,025,000)	(2,025,000)	(10,062,000)
Total Revenues	119,612,000	159,573,000	149,436,000	108,259,000	56,920,000	593,800,000
Carry Forward (Surplus or Shortfall) **	59,834,000	-	-	-	-	59,834,000
Additional Roll Forward						
Fiscal Year Balance (Surplus or Shortfall)	28,049,000	(14,064,000)	(13,985,000)	-	-	-
Cumulative Fiscal Year Balance (Surplus or Shortfall)	28,049,000	13,985,000	-	-	-	-

* Includes programmed FDOT Grants and Naples Reserve DCA

** Carry Forward includes the budgeted FY21 Carry forward and does not include project funding encumbered (roll over) in prior fiscal years to be paid out over the following schedule for phases (average time for payout): This Carry Forward number that includes the roll of encumbrances will not be available until after October 1, 2020 but attachment J provides a listing of major projects previously budgeted with carry forward funding anticipated to complete the project/phases.

Revenues based on current adopted Impact Fee Schedule, projected gas tax revenues, budgeted general fund transfer, and approved grants and developer contribution agreements.

Page 11 of 128

Attachment "F"

Page 12 of 128

Collier County 2020 Annual Update and Inventory Report (AUIR) Based on Adopted LOS, Trip Bank and Traffic Counts

ID#	Road#	Link	From	To	Exist	Sta.	Cnt.	Min	Std	Dir	Peak Service	Peak Dir	Peak Hour	2019 Peak Volume	2020 Peak Volume	2020 Peak Dir	2019 Net Change	2019 In Volume	2019 Percent Change	Total Trip Bank	2020 Counts + Trip Bank		2020 Counts + Trip Bank		2020 w/TB		Traffic	
																					Volume	Volume	Volume	Volume	Volume	Volume	Volume	Volume
118.0		Wilson Blvd	Immoalee Road	Golden Gate Boulevard	2U	650	D	D	S	S	900	350	350	350	350	0	0	0.00%	0	350	550	38.9%	B					
119.0	CR858	Oil Well Road	Immoalee Road	Everglades Boulevard	4D	725S	D	E	E	E	2,000	840	950	950	840	110	13.10%	13.10%	417	1367	633	68.4%	C					
120.0	CR858	Oil Well Road	Everglades Boulevard	Desoto Boulevard	2U	694	D	E	E	E	1,100	390	370	370	390	(20)	-5.13%	-5.13%	212	582	518	52.9%	B					
121.1		Oil Well Road	Desoto Boulevard	Oil Well Grade	2U	694	D	E	E	E	1,100	390	370	370	390	(20)	-5.13%	-5.13%	174	544	556	49.5%	B					
121.2		Oil Well Road	Oil Well Grade	Ave Maria Blvd	4D	694	D	E	E	E	2,000	390	370	370	390	(20)	-5.13%	-5.13%	174	544	1456	27.2%	B					
122.0		Oil Well Road	Ave Maria Blvd	SR 29	2U	694	D	E	E	E	800	390	370	370	390	(20)	-5.13%	-5.13%	158	528	272	66.0%	C					
123.0		Golden Gate Boulevard	Wilson Boulevard	18th Street NE/SE	4U	652	D	E	E	E	2,300	1270	1440	1440	1270	170	13.39%	13.39%	15	1455	845	63.3%	C					
123.1		Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	2U	652	D	E	E	E	2,300	1270	1440	1440	1270	170	13.39%	13.39%	5	1445	855	62.8%	C					
124.0		Golden Gate Boulevard	Everglades Boulevard	Desoto Boulevard	2U	Manual	D	E	E	E	1,010	232	237	237	232	5	2.16%	2.16%	0	237	773	23.5%	B					
125.0	CR896	Pine Ridge Road	Logan Boulevard	Collier Boulevard	4D	535	D	E	E	E	2,400	1540	1610	1610	1540	70	4.55%	4.55%	8	1618	782	67.4%	C					
132.0		Randall Boulevard	Immoalee Road	Everglades Boulevard	2U	651	D	E	E	E	900	810	870	870	810	60	7.41%	7.41%	23	893	7	99.2%	D	2022	2021			
133.0		Randall Boulevard	Everglades Boulevard	Desoto Boulevard	2U	Manual	D	E	E	E	900	652	665	665	652	13	1.99%	1.99%	0	665	235	73.9%	C					
134.0		Everglades Boulevard	I-75	Golden Gate Blvd	2U	637S	D	S	S	S	800	530	541	541	530	11	2.08%	2.08%	0	541	259	67.6%	C					
135.0		Everglades Boulevard	Golden Gate Boulevard	Oil Well Road	2U	636S	D	N	N	N	800	410	418	418	410	8	1.95%	1.95%	58	476	324	59.5%	C					
136.0		Everglades Boulevard	Oil Well Road	Immoalee Road	2U	635S	D	N	N	N	800	490	560	560	490	70	14.29%	14.29%	0	560	240	70.0%	C					
137.0		Desoto Boulevard	I-75	Golden Gate Boulevard	2U	639A	D	S	S	S	800	140	160	160	140	20	14.29%	14.29%	0	160	640	20.0%	B					
138.0		Desoto Boulevard	Golden Gate Boulevard	Oil Well Road	2U	638A	D	S	S	S	800	130	140	140	130	10	7.69%	7.69%	8	148	652	18.5%	B					
142.0		Orange Blossom Drive	Goodlette-Frank Road	Airport Road	2D	647	D	*	W	W	1,320	380	410	410	380	30	7.89%	7.89%	26	436	884	33.0%	B					
143.0		Orange Blossom Drive	Airport Road	Livingston Road	2U	647	D	W	W	W	1,000	380	410	410	380	30	7.89%	7.89%	73	483	517	48.3%	B					
144.0		Shadowlawn Drive	US 41 (Tamiati Trail)	Davis Boulevard	2U	523	D	N	N	N	800	220	250	250	220	30	13.64%	13.64%	0	250	550	31.3%	B					

* Segment designated as "Constrained" with SV increase +10%

¹ Level of service calculations for road facilities means calculations for peak hour traffic on a roadway segment for maximum service volumes at the adopted LOS. Peak hour is calculated as the 100th highest hour based on a 10 month period (omitting February and March), which is generally equivalent to the 250th highest hour for a twelve (12) month period. For design of roadway capacity projects, the 30th highest hour for a 12-month period at LOS "D" will be utilized. (LDC Section 6.02.03 C.)

Attachment "G"

2020 AUIR Update Programmed Improvements and Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

2020 Programmed Improvements to Address Deficiencies												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
1.0			Airport Road	Immokalee Road	Vanderbilt Beach Road	39	471	78.6%	Yes			6-lane Improvement CST FY2022
23.0			Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0	90	91.0%	No	2025	2027	Future 6-lane Improvement Design/ROW/AdvCST Programmed, CST FY2025
32.1			Collier Boulevard	Green Boulevard	Golden Gate Pkwy	49	521	77.3%	Yes			6-lane Improvement CST FY2023
32.2			Collier Boulevard	Golden Gate Pkwy	Golden Gate Main Canal	241	199	91.3%	Yes	2025		6-lane Improvement DIB CST FY2023
33.0			Collier Boulevard	I-75	Davis Boulevard	313	-273	107.6%	Yes	Existing	2024	Within the East Central TCMA - Funded for CST by FDOT FY25
36.2			Collier Boulevard	Wal-Mart Driveway	Manatee Road	158	-78	103.9%	No	Existing	2028	6-lane Improvement FDOT Funding for RW FY2021 and CST FY2024
67.2			Pine Ridge Road	Livingston Road	I-75	70	700	82.1%	Yes		Existing	CF/IR-Cut/DDI Improvements CST Funded FY2023
140.1			Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	14	286	84.9%	Yes	2029		6-lane Improvement CST FY2025
140.2			Vanderbilt Beach Road	Collier Blvd	16th Street NE	NA	NA	NA	No	NA	NA	New 4-lane Improvement from Collier Blvd to Wilson Blvd (2-lanes from Wilson Blvd to 16th St NE) FY2022
141.1			Vanderbilt Beach Road	16th Street NE	Everglades Blvd	NA	NA	NA	No	NA	NA	Future 2-lane Improvement RW & Adv. CST FY2022-2024
141.2			Veterans Memorial Blvd. Phases I & II	Livingston Rd	US 41	NA	NA	NA	Yes	NA	NA	New 4-lane Improvement Design & RW FY2021-2022 & CST FY2023
TBD			Whippoorwill Ln - Marbella Lake Dr Interconnection	Whippoorwill Lane	Marbella Lakes Dr	NA	NA	NA	Yes	NA	NA	New 2-lane Improvement CST FY2020
118.0			Wilson Blvd	Immokalee Road	Golden Gate Boulevard	0	550	38.9%	No			4-lane Improvement Design FY2021 & CST FY2024
123.1			Golden Gate Boulevard	18th Street NE/SE	Everglades Boulevard	5	855	62.8%	No			4-lane Improvement CST FY2020 (Completed)
132.0			Randall Boulevard	Immokalee Road	8th Street NE	23	7	99.2%	No	2021	2023	4-lane Improvement CST FY2023
132.0			Randall Boulevard	8th Street NE	Everglades Boulevard	23	7	99.2%	No	2021	2023	Future 4-lane Improvement Design FY2023

2020 Existing Deficiencies Based on Traffic Counts												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th) for Info Only	Remaining Capacity	V/C (Std)	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
62.0			Old US 41	Lee County Line	US 41 (Tamiami Trail)	9	-120	112.0%	Yes	Existing	Existing	Within the Northwest TCMA; Widen to 4-Lanes; PD&E Study Underway by FDOT; Pursue Federal Funding
66.0			Pine Ridge Road	Shirley Street	Airport Road	20	-430	115.4%	Yes	Existing	Existing	Within the Northwest TCMA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted

Attachment "G"

2020 AUJR Update Programmed Improvements and Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

Projected Deficiencies Existing-2025 (Traffic Counts + Trip Bank & 1/7th Vested Trips)												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (1/7th)	Remaining Capacity	V/C (Std)	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
19.0			Golden Gate Parkway	Goodlette-Frank Road	Airport Road	1	559	84.3%	No	2029	2027	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
20.1			Golden Gate Parkway	Airport Road	Livingston Road	17	583	83.6%	No	2027	2029	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
20.2			Golden Gate Parkway	Livingston Road	I-75	0	200	94.4%	Yes	2023	2024	Within the East Central TCMA - Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report;
23.0			Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0	90	91.0%	Yes	2025	2027	Within the Northwest TCMA - Design/ROW/AdvCST Programmed, CST FY2025
26.0			Goodlette-Frank Road	Golden Gate Parkway	US 41 (Tamiami Trail)	0	20	99.3%	No	2021		Continue to monitor; Pursue Detailed Operational Analysis if Warranted
32.2			Collier Boulevard	Golden Gate Pkwy	Golden Gate Main Canal	241	199	91.3%	No	2025		6-lane Improvement DIB CST FY2023
33.0			Collier Boulevard	I-75	Davis Boulevard	313	-273	107.6%	Yes	Existing	2024	Within the East Central TCMA - Funded for CST by FDOT FY25
36.1			Collier Boulevard	US 41 (Tamiami Trail)	Wal-Mart Driveway	201	149	94.0%	No	2024		Continue to monitor; Pursue Detailed Operational Analysis if Warranted
36.2			Collier Boulevard	Wal-Mart Driveway	Manatee Road	158	-78	103.9%	No	Existing	2028	Widen to 6-Ln; FDOT Funded RW FY2021 and CST FY2024
39.2			Immokalee Road	Goodlette-Frank Road	Airport Road	9	331	89.3%	Yes	2024	2024	Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Pursue parallel Roadway; Veteran's Memorial Blvd to US 41 programmed for CST FY23
42.1			Immokalee Road	I-75	Logan Boulevard	490	390	88.9%	No	2025	2029	Continue to Monitor; Interchange Improvements Proposed in MPO Cost Feasible Plan 2021-2025, Anticipate Future VBR Extension to Reduce Volumes; Operational Analysis Underway; Study and Adv. CST FY2024
44.0			Immokalee Road	Collier Boulevard	Wilson Boulevard	725	95	97.1%	No	2021	2024	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
67.1			Pine Ridge Road	Airport Road	Livingston Road	17	343	91.2%	No	2025	2020	Within the Northwest TCMA - Congestion Corridor Study Completed for Pine Ridge Road @ Livingston programmed in OIE; PD&E Programmed in FY 19/20 for Interchange Area. Construction programmed in 2023; SV increased in 2020 AUJR
88.0			SR 82	Lee County Line	SR 29	55	-45	105.6%	No	Existing	2020	Widen to 4-Ln; Gator Slough to SR29 FDOT Under CST; Remaining Funded for CST FY24
92.0			Tamiami Trail East	Airport Road	Rattlesnake Hammock Road	335	-215	107.4%	Yes	Existing	2027	Within the South US 41 TCEA; Continue to Monitor; Pursue Detailed Operational Analysis if Warranted
95.3			Tamiami Trail East	Greenway Road	San Marco Drive	157	18	98.3%	No	2021	Existing	Greenway Rd to 6-L Farms Rd is funded thru CST in the MPO CFP (2031-2040); East of 6-L Farms RD is not expected to be deficient within the same time frame; Continue to Monitor;
99.0			Tamiami Trail North	Wiggins Pass Road	Immokalee Road	54	126	95.9%	Yes	2023	2026	Within the Northwest TCMA; Proposed Veterans Memorial Blvd. will provide a connection to Livingston North/South that should provide additional relief; Continue to Monitor
111.1			Vanderbilt Beach Road	Airport Road	Livingston Road	4	286	90.5%	Yes	2023		Within the Northwest TCMA;
111.2			Vanderbilt Beach Road	Livingston Road	Logan Blvd.	64	516	82.8%	Y/N	2025		Livingston to I-75 is in the Northwest TCMA
132.0			Randall Boulevard	Immokalee Road	Everglades Boulevard	23	7	99.2%	No	2021	2023	Immokalee Rd @ Randall Blvd Intersection Improvement PD&E Underway; Immokalee Rd. to 8th Street Funded for Construction in FY22; Randall Blvd. Corridor Study Complete; Continue to Pursue Funding

Attachment "G"

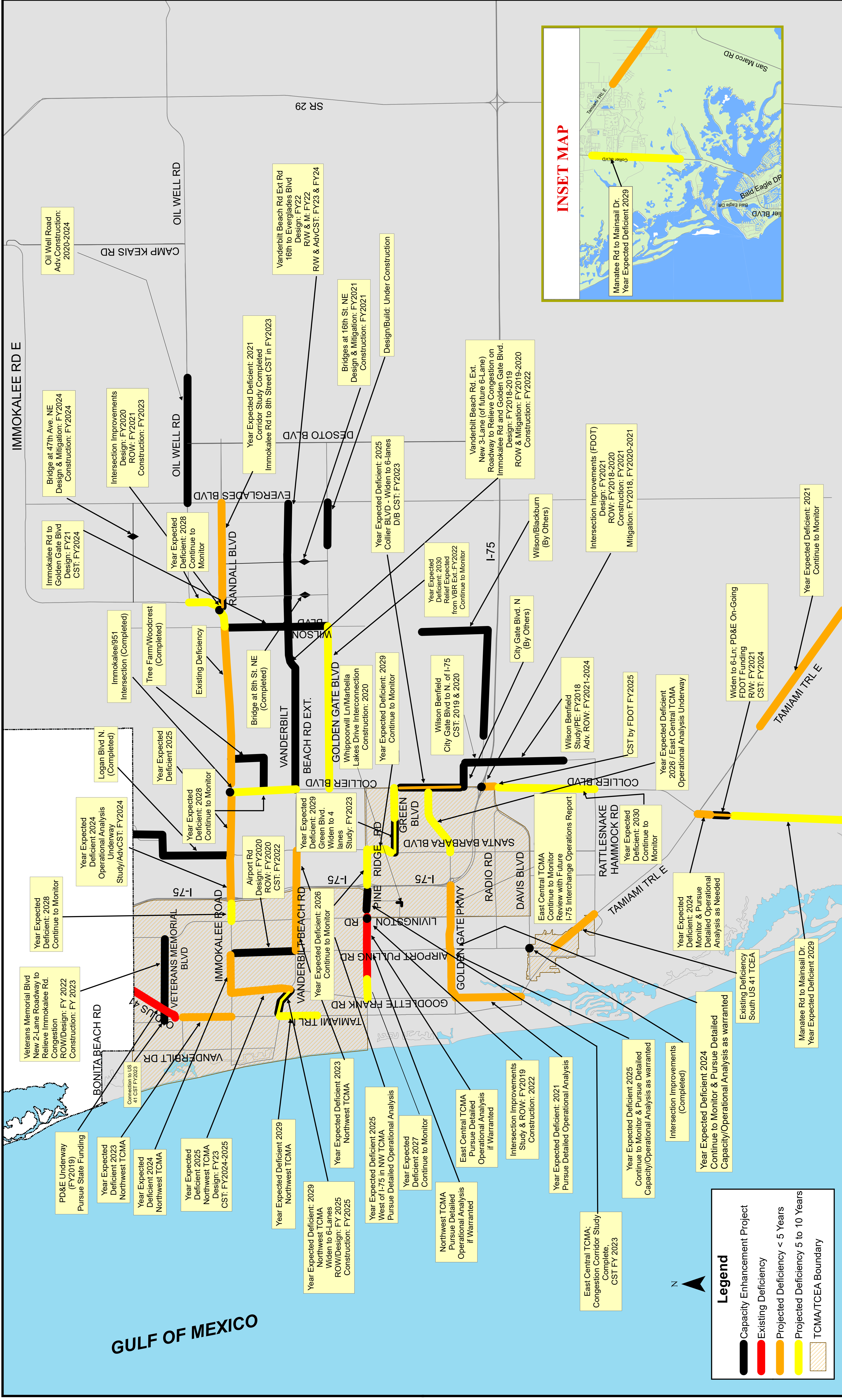
2020 AUIR Update Programmed Improvements and Deficiencies Report

Listed below are the roadway links that are currently deficient or are projected to be deficient under the concurrency system within the next five years and the programmed and proposed solutions to solve these deficiencies

Projected Deficiencies 2026-2030 (Traffic Counts + Trip Bank & 17th Vested Trips)												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (17th)	Remaining Capacity	V/C (Std)	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
17.0			Golden Gate Boulevard	Collier Boulevard	Wilson Boulevard	0	390	83.0%	No	2030		Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
22.0			Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	60	190	90.4%	Yes	2026	2022	Within the East Central TCMA - Operational Analysis Underway; Continue to Monitor and Review with Future I-75 Interchange Operation Analysis Report; Green Blvd. east of Logan being studied (FY2023) as a potential reliever.
27.0			Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	10	140	84.4%	Yes	2029		Within the East Central TCMA;
30.1			Collier Boulevard	Immokalee Road	Vanderbilt Beach Road	517	603	79.9%	No	2030	2029	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; 4-laning of parallel reliever in 2022 (Wilson Blvd - Immokalee Rd. to GG Blvd CST FY2024)
34.0			Collier Boulevard	Davis Boulevard	Rattlesnake Hammock Road	441	429	85.7%	No	2030		Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
37.0			Collier Boulevard	Manatee Road	Mainsail Drive	211	299	86.4%	No	2029	2028	Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
42.2			Immokalee Road	Livingston Road	I-75	30	450	87.1%	Yes	2028		Within the Northwest TCMA - Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Parallel Roadway Veteran's Memorial Blvd programmed for construction in 2022; Connection to US 41 FY2023
45.0			Immokalee Road	Logan Boulevard	Collier Boulevard	735	435	86.4%	No	2027	2024	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
46.0			Immokalee Road	Wilson Boulevard	Oil Well Road	465	525	84.1%	No	2028	2024	Pursue Detailed Capacity/Operational Analysis. Anticipate Future VBR Extension construction in 2022 to Reduce Volumes;
49.0			Logan Boulevard	Pine Ridge Road	Green Boulevard	50	320	83.2%	Yes	2029		Within the East Central TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
50.1			Pine Ridge Road	Goodlette-Frank Road	Shirley Street	19	351	87.5%	Yes	2027		Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
55.0			Pine Ridge Road	I-75	Logan Boulevard	126	274	90.2%	Yes	2026		Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
68.0			Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	10	490	84.2%	Yes	2029		Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted;
110.1			Vanderbilt Beach Road	US 41 (Tamiami Trail)	Goodlette-Frank Road	14	286	84.9%	Yes	2029		Within the Northwest TCMA; Continue to Monitor & Pursue Detailed Capacity/Operational Analysis as warranted; Design & CST programmed for FY 2025

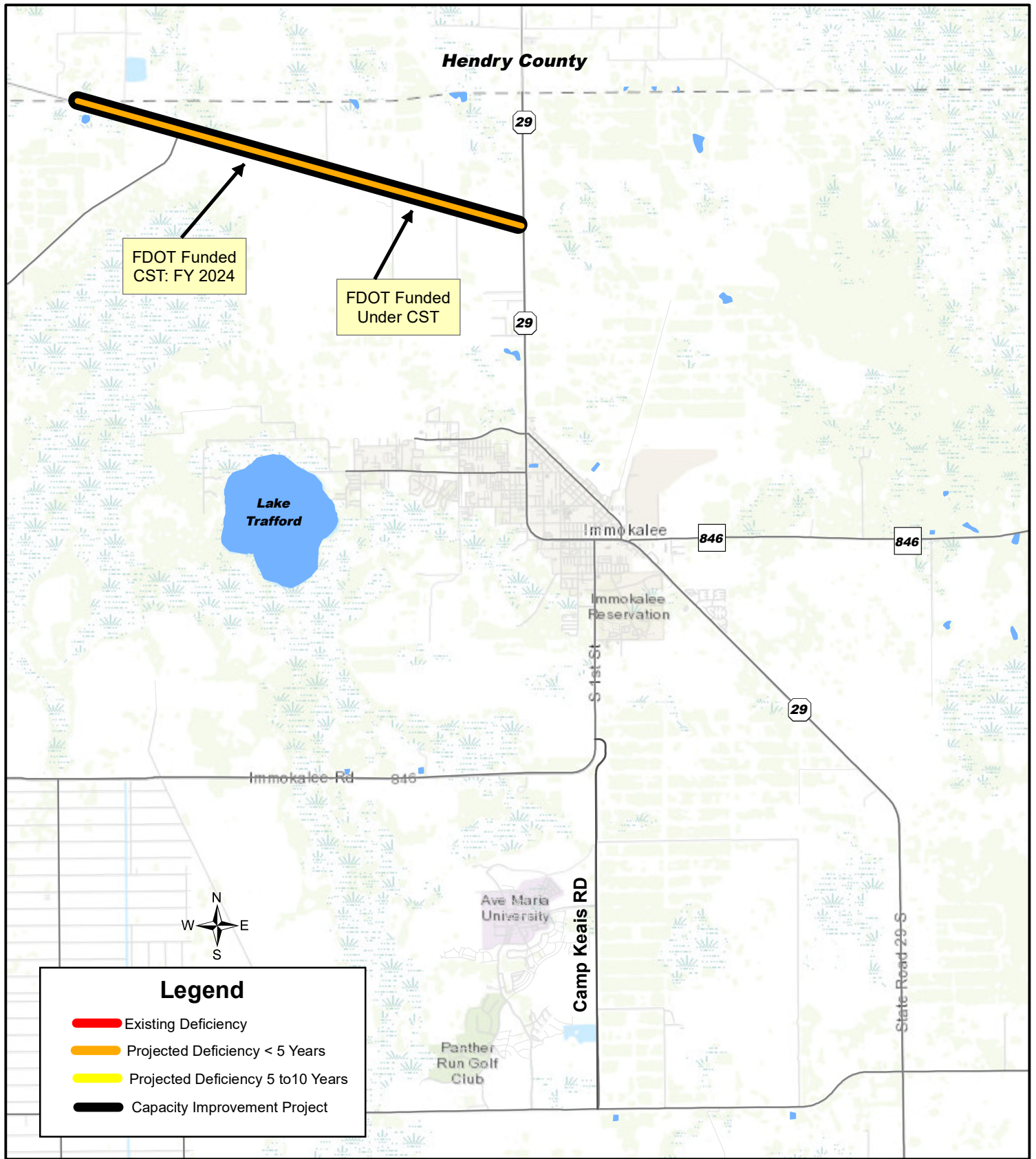
Dropped from Last Year's Lists												
ID#	Map	Last Year	Roadway	From	To	Trip Bank (17th)	Remaining Capacity	V/C (Std)	TCMA TCEA	Year Expected Deficient	Expected Def. Last Year	Solutions
42.1			Immokalee Road	Airport Road	Livingston Road	11	729	76.5%	Yes		2025	
56.0			N. 1st Street	New Market Road	SR-29 (Main Street)	24	226	74.9%	No		2028	
67.2			Pine Ridge Road	Livingston Road	I-75	70	770	80.3%	Yes		Existing	

ATTACHMENT H-1



PROJECTED COLLIER COUNTY DEFICIENT ROADS
FY 2020 - FY 2030

ATTACHMENT H-2



PROJECTED COLLIER COUNTY DEFICIENT ROADS FY 2020 - FY 2030

Growth Management Department
Transportation Planning

0 0.5 1 2 3 Miles

GIS Mapping: Beth Yang, AICP
Growth Management Department

TCMA Report
Collier County Transportation Concurrency Management System

East Central TCMA							
AUR ID	Street Name	From	To	PkHr-PkDir V/C Ratio ⁽¹⁾	Length	#Lanes	Lane Miles @ V/C <= 1.00
14.0	Davis Boulevard	Lakewood Boulevard	County Barn Road	0.78	1.71	4	6.83
15.0	Davis Boulevard	County Barn Road	Santa Barbara Boulevard	0.71	0.75	4	3.02
16.1	Davis Boulevard	Santa Barbara Boulevard	Radio Rd.	0.29	2.62	6	15.71
16.2	Davis Boulevard	Radio Rd.	Collier Boulevard	0.49	2.32	6	13.93
20.2	Golden Gate Parkway	Livingston Rd.	I-75	0.94	1.97	6	11.82
21.0	Golden Gate Parkway	I-75	Santa Barbara Boulevard	0.68	1.01	6	6.07
22.0	Golden Gate Parkway	Santa Barbara Boulevard	Collier Boulevard	0.90	2.21	4	8.84
27.0	Green Boulevard	Santa Barbara Boulevard	Collier Boulevard	0.84	1.99	2	3.99
31.2	Collier Boulevard	Pine Ridge Road	Green Boulevard	0.70	0.88	6	5.28
32.1	Collier Boulevard	Green Boulevard	Golden Gate Pwky	0.77	1.06	4	4.24
32.2	Collier Boulevard	Golden Gate Pwky	Golden Gate Main Canal	0.91	1.01	4	4.04
32.3	Collier Boulevard	Golden Gate Main Canal	I-75	0.61	0.65	8	5.20
33.0	Collier Boulevard	I-75	Davis Boulevard	1.08	0.56	8	4.47
49.0	Logan Boulevard	Pine Ridge Road	Green Boulevard	0.83	0.88	4	3.53
54.0	Livingston Road	Pine Ridge Road	Golden Gate Parkway	0.45	2.60	6	15.59
55.0	Livingston Road	Golden Gate Parkway	Radio Road	0.61	1.41	6	8.49
67.2	Pine Ridge Road	Livingston Rd.	I-75	0.82	2.20	6	13.20
68.0	Pine Ridge Road	I-75	Logan Boulevard	0.90	0.99	6	5.97
70.0	Radio Road	Livingston Road	Santa Barbara Boulevard	0.82	2.00	4	7.98
71.0	Radio Road	Santa Barbara Boulevard	Davis Boulevard	0.46	1.34	4	5.36
76.0	Santa Barbara Boulevard	Green Boulevard	Golden Gate Parkway	0.76	1.70	4	6.81
77.0	Santa Barbara Boulevard	Golden Gate Parkway	Radio Road	0.74	1.40	6	8.43
78.0	Santa Barbara Boulevard	Radio Road	Davis Boulevard	0.56	1.05	6	6.32
125.0	Pine Ridge Road	Logan Boulevard	Collier Boulevard	0.67	1.88	4	7.53
					36.22		182.65
							178.18

Total Lane Miles: 182.65
Lane Miles <=1.00 V/C: 178.18
Percent Lane Miles Meeting Standard: 97.6%

⁽¹⁾ V/C Ratio based upon Total Traffic, including Traffic Counts + Total Trip Bank

Attachment I

TCMA Report
Collier County Transportation Concurrency Management System

Northwest TCMA								
AUIR ID	Street Name	From	To	PkHr-PkDir ⁽¹⁾ V/C Ratio	Length	#Lanes	Lane Miles	Lane Miles @ V/C <= 1.00
1.0	Airport Road	Immokalee Road	Vanderbilt Beach Road	0.79	1.97	4	7.9	7.89
2.1	Airport Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.79	1.53	6	9.2	9.18
2.2	Airport Road	Orange Blossom Dr.	Pine Ridge Rd.	0.76	2.92	6	17.5	17.51
23.0	Goodlette-Frank Road	Immokalee Road	Vanderbilt Beach Road	0.91	1.80	2	3.6	3.60
24.1	Goodlette-Frank Road	Vanderbilt Beach Road	Orange Blossom Dr.	0.65	0.88	4	3.5	3.52
24.2	Goodlette-Frank Road	Orange Blossom Dr.	Pine Ridge Road	0.69	1.53	6	9.2	9.18
29.0	Gulfshore Drive	111th Avenue	Vanderbilt Beach Road	0.39	1.31	2	2.6	2.62
39.0	111th Avenue N.	Gulfshore Drive	Vanderbilt Drive	0.41	0.51	2	1.0	1.01
40.0	111th Avenue N.	Vanderbilt Drive	Tamiami Trail	0.62	1.00	2	2.0	2.01
41.1	Immokalee Road	Tamiami Trail	Goodlette-Frank Rd.	0.72	1.47	6	8.8	8.84
41.2	Immokalee Road	Goodlette-Frank Rd.	Airport Road	0.89	2.47	6	14.8	14.81
42.1	Immokalee Road	Airport Road	Livingston Rd.	0.76	1.96	6	11.8	11.79
42.2	Immokalee Road	Livingston Rd.	I-75	0.87	1.78	7	12.5	12.48
51.0	Livingston Road	Imperial Street	Immokalee Road	0.50	3.31	6	19.8	19.85
52.0	Livingston Road	Immokalee Road	Vanderbilt Beach Road	0.72	1.99	6	12.0	11.96
53.0	Livingston Road	Vanderbilt Beach Road	Pine Ridge Road	0.50	2.21	6	13.3	13.26
62.0	Old US 41	US 41 (Tamiami Trail)	Lee County line	1.13	1.57	2	3.1	0.00
63.0	Seagate Drive	Crayton Road	Tamiami Trail	0.58	0.48	4	1.9	1.93
64.0	Pine Ridge Road	Tamiami Trail	Goodlette-Frank Road	0.70	0.50	6	3.0	3.02
65.0	Pine Ridge Road	Goodlette-Frank Road	Shirley Street	0.87	0.67	6	4.0	4.05
66.0	Pine Ridge Road	Shirley Street	Airport Road	1.16	0.81	6	4.9	0.00
67.1	Pine Ridge Road	Airport Road	Livingston Rd.	0.91	2.09	6	12.56	12.56
98.0	Tamiami Trail North	Lee County Line	Wiggins Pass Road	0.71	1.67	6	10.0	10.02
99.0	Tamiami Trail North	Wiggins Pass Road	Immokalee Road	0.96	1.52	6	9.1	9.11
100.0	Tamiami Trail North	Immokalee Road	Vanderbilt Beach Road	0.58	1.51	6	9.1	9.06
101.0	Tamiami Trail North	Vanderbilt Beach Road	Gulf Park Drive	0.84	1.26	6	7.6	7.58
102.0	Tamiami Trail North	Gulf Park Drive	Pine Ridge Road	0.69	1.44	6	8.6	8.64
109.0	Vanderbilt Beach Road	Gulfshore Drive	Tamiami Trail	0.76	1.34	2	2.7	2.68
110.1	Vanderbilt Beach Road	Tamiami Trail	Goodlette-Frank Road	0.85	1.87	4	7.5	7.50
110.2	Vanderbilt Beach Road	Goodlette-Frank Rd.	Airport Road	0.73	2.40	4	9.6	9.58
111.1	Vanderbilt Beach Road	Airport Road	Livingston Rd.	0.90	3.22	6	19.3	19.30
111.2	Vanderbilt Beach Road	Livingston Rd.	I-75	0.83	1.00	6	6.0	6.00
114.0	Vanderbilt Drive	Lee County Line	Wiggins Pass Road	0.42	2.52	2	5.0	5.03
115.0	Vanderbilt Drive	Wiggins Pass Road	111th Avenue	0.41	1.49	2	3.0	2.99
117.0	Wiggins Pass Road	Vanderbilt Drive	Tamiami Trail	0.45	1.05	2	2.1	2.10
142.0	Orange Blossom Drive	Goodlette-Frank Road	Airport Road	0.33	1.35	2	2.70	2.70
143.0	Orange Blossom Drive	Airport Road	Livingston Road	0.48	1.01	2	2.02	2.02
					59.44		283.39	275.37

Attachment J
FY20 Activity Report on continuing Projects under Contract/DCA/Advanced Construction
(Dollars shown in Thousands)

Project Number	SUMMARY OF PROJECTS BY NAME	FY20 Amount
60168	Vanderbilt Beach Rd Collier Blvd to 8th St	40,476
60145	Golden Gate Blvd	11,268
60129	Wilson Benfield	6,318
60199	Vanderbilt Beach Rd US41 to E of Goodlette	1,300
	Total	59,362

****As of 6/30/20**

COUNTY STORMWATER MANAGEMENT SYSTEM

CONTENTS

- **COUNTY STORMWATER MANAGEMENT SYSTEM
– SUMMARY**
- **EXISTING CANAL SYSTEMS AND CONTROL STRUCTURES –
OVERVIEW**
- **COUNTYWIDE STORMWATER CANAL SYSTEM – MAP**
- **COUNTYWIDE STORMWATER CONTROL STRUCTURES –
MAP**
- **PROPOSED STORMWATER MANAGEMENT 5-YEAR WORK
PROGRAM**
- **STORMWATER MANAGEMENT PROJECT DESCRIPTIONS**
- **STORMWATER MANAGEMENT PROJECT LOCATION MAP**
- **ATTACHMENT A: STORMWATER MANAGEMENT PROJECT
PLANNING PROCESS**
- **ATTACHMENT B: SYSTEM INVENTORY AND GIS DATABASE
REPORT**
- **ATTACHMENT “C”: TABLES**
 - TABLE 2 – CURRENT CANAL SYSTEM INVENTORY**
 - TABLE 3 – CANAL AND DITCH CONDITION RATING SYSTEM**
 - TABLE 4 – CURRENT CONTROL STRUCTURE INVENTORY**
 - TABLE 5 – CONTROL STRUCTURE INSPECTION RATING
SYSTEM**
- **ATTACHMENT “D”: BASINS AND SUBBASINS REPORT:**
 - FIGURE 4– COLLIER COUNTY BASINS MAP**
 - FIGURE 5– COLLIER COUNTY DISCHARGE RATE MAP**
 - TABLE 5– COLLIER COUNTY BASINS**

2020 AUIR STORMWATER MANAGEMENT SYSTEM FACILITIES SUMMARY

Facility Type: County Maintained System of Stormwater Management Canals & Structures
(Category A)

Level of Service (LOS) Standard: Varies by individual watershed

Existing System within Collier County:

Based on current Collier County GIS Database

Existing Major Canals	406.8 Miles
-----------------------	-------------

System Maintained by Collier County:

Based on current Collier County GIS Database

Existing Major Canals	143.2 Miles
Proposed Reconstruction/Additions within 5-Year Planning Period	1.2 Miles
Existing Major Water Control Structures	72
Proposed Replacement/Additional Structures within 5-Year Planning Period	3

Stormwater Program Summary FY 2021 thru FY 2025

Recommended Work Program	\$ 157,105,000
Recommended Revenues	\$ <u>103,167,000</u>
Five-Year Surplus or (Deficit)	\$ (53,938,000)

Based on projected funding availability and does not reflect the entirety of unmet stormwater needs. FY21 outlays actual proposed budget, subsequent years are proposed/estimated and are subject to change.

1. Existing Revenue Sources FY21-24

Roll Forward	\$ 2,919,000
General Fund (001)	\$ 24,345,000
General Fund (111)	\$ 15,625,000
General Fund (310)	\$ 0
Anticipated Grants	\$ 0
Interest	\$ 295,000
Neg 5% Revenue Reserve	\$ (17,000)
325 Reserves	\$ 0
Debt Funding	\$ <u>60,000,000</u>
Total	\$ 103,167,000

2. Supplemental Revenue Sources

None Required

Recommended Action

That the BCC direct the County Manager or his designee to include County stormwater projects appearing on the proposed “Stormwater Five - Year Work Program,” (Table 1) as detailed in the attached Project Descriptions and prioritized by the Stormwater Project Prioritization Process in the next Annual CIE Update and Amendment with the application of revenues as outlined in the Program Revenue section of Table 1; and that it approves the proposed 2020 Stormwater Management System AUIR and adopt the CIE Update for FY2020/21 – FY2024/25.

EXISTING MAJOR CANAL SYSTEMS AND CONTROL STRUCTURES

Currently, the County maintains 147.3 miles of canal (including ditches) and 72 stormwater control structures. Figures 1 and 2 show the locations for all major canals (including ditches) and stormwater control structures maintained by the County, respectively.

The County, working collaboratively with South Florida Water Management District, provides easements over the primary and secondary watercourses, in accordance with the Cooperative Agreement between Collier County and South Florida Water Management District. Table 3 identifies control structures maintained by Collier County.

In 2012, CH2MHill completed a structural evaluation of county major water control structures. Each control structure (Table 3) has an overall condition rating based on two types of inspections: Structural and Civil. The overall condition rating ranks from C-1 (no action needed) to C-5 (critical repair or replacement needed immediately). The ratings are based on identified deficiencies and the potential resulting impact. Table 4 explains each rating. The County is currently in the process of completing an updated structural evaluation of all county stormwater control structures with CH2M and is included in Table 3, which provided the evaluation results of the 2019 Report.

Figure 1: Collier County Major Stormwater Canal System

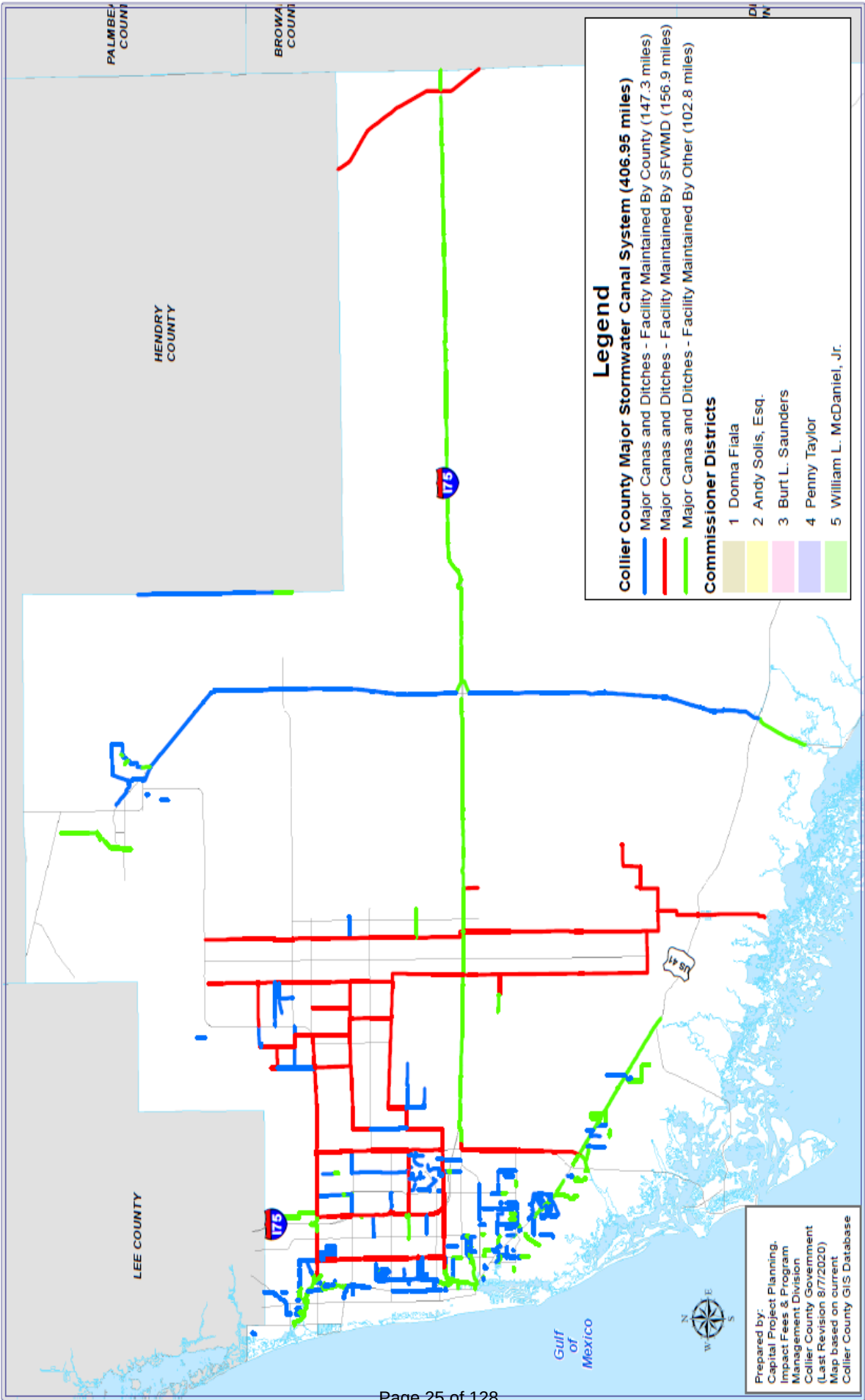
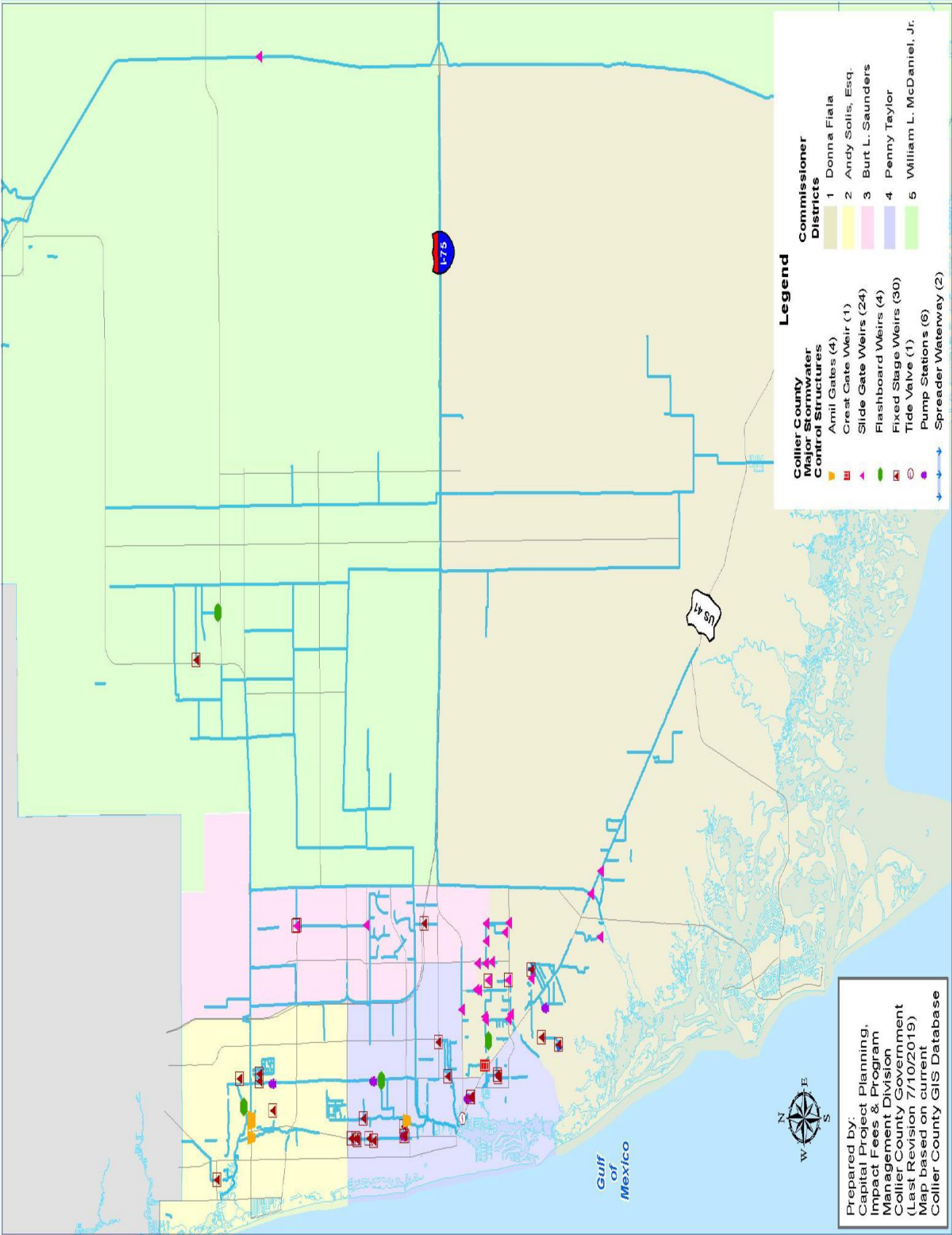


Figure 2: Collier County Major Stormwater Control Structures



2020 AIUR FACILITY SUMMARY FORM – Stormwater Management

Facility Type: County Maintained System of Secondary Stormwater Management Canals & Structures (Category A)

Table 1 - FY 21 - FY 25

Plan Year	1	2	3	4	5	5 - Year Totals
Fiscal Year	FY 21	FY 22	FY 23	FY 24	FY 25	
Proj. No.						
51144	400	400	400	400	400	2,000
60194	293	300	350	350	350	1,643
60121		75	75	75	75	300
50209		38	62	62	62	224
50210		37	63	63	63	226
Infrastructure & Capacity Projects						
51029	2,500	4,500	6,000	6,000	6,000	25,000
TBD		1,000	1,500	2,000	2,000	6,500
51803	4					4
50180	500	500	500	500	500	2,500
50213		300				300
60246	3,000					3,000
60126	150	500	500	500	1,000	2,650
50169	100	100	100	100	100	500
60234	1,500	1,500	2,000	2,000	2,000	9,000
50160	500	750	750	500	500	3,000
50200	250	1,500	2,000	1,000		4,750
60238		1,500				1,500
60143	3,000	4,500	5,000			12,500
60139	4,200	4,200	4,200	4,200	4,200	21,000
60142	2,000	6,500	6,500	6,500		21,500
TBD	500	1,000	1,000	1,000	1,000	4,500
60195		1,000				1,000
70167		500				500
33554		1,000	1,000	5,000	1,000	8,000
60102	6,000	16,000	2,000			24,000
60196	500	500				1,000
	8					8
Total Program Cost	25,405	48,200	34,000	30,250	19,250	157,105

* Denotes projects with FY 20 funding including grant awards; see program revenue section below.

P = Planning, D = Design & Permitting, R = Right-of-Way Acquisition, C = Construction, M = Maintenance/Monitoring, A = Advance Funding

Program Revenue (Fund 325)

Plan Year	1	2	3	4	5	5 - Year Totals
Fiscal Year	FY 21	FY 22	FY 23	FY 24	FY 25	
New Budget From 101	4,869	4,869	4,869	4,869	4,869	24,345
New Budget From 111	3,125	3,125	3,125	3,125	3,125	15,625
New Budget From 310	-	-	-	-	-	0
Anticipated Grants	-	-	-	-	-	0
Interest	95	50	50	50	50	295
Neg 5% Revenue Reserve	(5)	(3)	(3)	(3)	(3)	(17)
325 Reserves						0
Carry Forward	2,919					2,919
Debt Funding	14,402	40,159	5,439			60,000
Unmet Funding Needs			20,520	22,209	11,209	53,938
Total Program Revenue	25,405	48,200	34,000	30,250	19,250	157,105

Notes: 1. All numbers are in thousands of dollars.

2. 2020 outlay actual budget proposed, subsequent years proposed/estimated & subject to change.

FY 21 – 25 PROJECT DESCRIPTIONS

Countywide Programs, Planning & Maintenance

Stormwater Feasibility and Preliminary Design (P/N 51144)

This project includes funding for long range strategic planning for future program progression, capital improvement project identification and prioritization, specific basin issue evaluation and funding appropriation analysis. Individual Project Feasibility Studies will be funded from this Project and guided by the project ranking criteria established in the Planning process identified in Attachment A.

NPDES MS4 Program (P/N 60121)

Funding within this project covers continued development of and compliance with the federally mandated National Pollutant Discharge Elimination System (NPDES) permitting program for the County operated Municipal Separate Storm Sewer System (MS4).

Stormwater Maintenance (P/N 60194)

This project includes funding of various maintenance activities associated with certain existing county stormwater management assets such as the Freedom Park water quality treatment system, Serenity Park's surface water management area, and the Wiggins Pass Road area surface water flow way.

Infrastructure & Capacity Projects

1. Golden Gate City Outfall Replacements (P/N 51029)

Project is to improve collection treatment and conveyance urban stormwater runoff by restoring an upgrading antiquated system installed in early 1960s within the four (4) square mile area known as Golden Gate City (GGC). The GGC canal system flows into Naples bay via the Main Golden Gate Canal. The project includes the replacement and improvements to existing aging infrastructure such as the removal of old catch basins replaced with ditch bottom inlets with grates to catch debris, the addition of sumps at catch basins, re-grading and sodding of swales to prevent erosion providing water quality improvement. Over a \$50 million program. Individual projects to be delivered as time and budget allow.

2. Pine Ridge Stormwater Management Improvements (P/N 60126)

A feasibility study/master plan was completed in 2017 to serve as a guide for this area's future projects. Improvements in the Pine Ridge Estates Area include replacement of existing aging infrastructure such as catch basins, culverts and re-grading and sodding of roadside swales. Current work includes design of outfall improvements in Basin 6.

3. Immokalee Stormwater Improvements (P/N 60143)

This project includes an update to the Immokalee Stormwater Master Plan, future stormwater treatment pond sighting feasibility analysis, coordination with the Lake Trafford Management Group, and the Immokalee Water and Sewer District. Future stormwater management improvement projects, as prioritized by the master plan update, will be fully coordinated and vetted with the Immokalee Community Redevelopment Agency.

4. Naples Park Area Stormwater Improvements (P/N 60139)

In coordination with the Public Utilities Division, this project includes water main and sanitary sewer collection system replacements, as well as roadside stormwater management system

improvements. Roadside stormwater improvements are occurring in conjunction with utility replacement work on all east-west streets in the Naples Park Subdivision. This is a multi-year, multi-phase project.

5. West Goodlette-Frank Road Area Stormwater Improvement (P/N 60142)

Project planning and design has been completed, construction is currently underway, in coordination with the City of Naples Wastewater Collection System improvements to address stormwater (flooding) problems and existing septic system failures during periods of high rainfall on several streets between Goodlette-Frank Road and US-41. Stormwater runoff from the area flows east into the upper Gordon River then to Naples Bay. Work will include water quality improvements designed to decrease nutrient loading of stormwater runoff conveyed to the sensitive impaired receiving waters of Gordon River and Naples Bay. All phases north of the existing project will convert over 900 septic tanks to sewer conversions in addition to current project.

6. Harbor Lane Brookside (P/N 60195)

Harbor Lane is a street in the Brookside neighborhood which needs surface and possibly base refurbishment. The street's stormwater management system has reached the end of its life span and needs reconstruction as well. A new stormwater management system is currently under design. The design includes new culverts and catch basins as well as necessary water quality improvements. The Brookside neighborhood discharges stormwater into Naples Bay, an impaired waterbody. Construction is currently planned for FY 21 pending availability of funds. Contingent upon successful completion of the Harbor Lane improvements, the few remaining streets in the Brookside neighborhood will be considered for future work when funds become available. Vetting of all work within the Brookside HOA is beginning now during the design phase. City of Naples watermain replacement is also being considered as part of this project.

7. Upper Gordon River Stormwater Improvements (P/N 60102)

The Gordon River watershed consists of approximately 4,432 acres and is bounded by the Crossings to the north, the Conservancy of Southwest Florida to the south, Airport Pulling Rd to the east, and US 41 to the west. Various areas throughout the Gordon River Extension (GRE) basin experience high water inundation conditions during heavy rainfall events. These areas include the Country Club of Naples, Forest Lakes, Pine Ridge Industrial Park, Poinciana Village, Golden Gate Parkway, and the properties west of GF Rd, north of Golden Gate Parkway, and south of Pine Ridge Rd. A hydrologic/hydraulic modeling analysis was performed on the basin to determine various solutions to eliminate or effectively reduce the inundation conditions. The existing conditions model indicated a poorly maintained stormwater infrastructure serving the GRE basin. After the modeling and analysis of various proposed scenarios, it is recommended to implement the following eight improvements to relieve flooding scenarios throughout the basin; the Golden Gate Parkway AMIL Gate Weir Replacement, Goodlette-Frank Supplemental Outfall, Freedom Park Stormwater Pump Station, Freedom Park Bypass Ditch & Spreader Swale, Goodlette-Frank Ditch Improvements, Solana/Burning Tree Box Culvert Extension, Maintenance Access Road/ Seawall, and the Forest Lakes Rock Weir Replacement. The implementation of the proposed improvements provided a flood area reduction of approximately 400 acres within the basin.

8. Griffin Road Area Stormwater Improvements (P/N 60196)

The Griffin Road Area Stormwater Improvement Project is located near the southwestern terminus of Griffin Road in the East Naples area of Collier County off of US41 (Tamiami

Trail) and Barefoot Williams Road. The project includes construction of a water quality treatment area on Rookery Bay National Estuarine Research Reserve property. The focus of the project is to provide water quality treatment facilities and an adequate stormwater outfall for the area to reduce frequency of flooding.

9. LASIP: Branch 11 (P/N 51101)

The project is within the “LASIP” (Lely Area Stormwater Improvement Project) area. The new work consists of improving a branch of canal that was discovered during construction of the Naples Manor North canal. It is undergoing scouring (erosion) and residents are concerned about undermining the foundations of their houses. Design has been completed and construction is underway.

10. RESTORE (P/N 33554)

This is a new, large, comprehensive watershed improvement initiative currently in a conceptual planning stage. The initiative includes development of a suite of projects to be competed in phases, all with the goal of rehydrating and restoring historic, wet season surface water overland flow principally within the Belle Meade region of Collier County. Project concepts and a multiyear plan have been submitted to the state and the US Department of the Treasury to gain authorization for use of RESTORE Act funds to further the initiative.

11. Bayshore CRA (P/N 50169)

A preliminary engineering study to identify design alternatives, constraints and opportunities to improve the stormwater management system within the Bayshore CRA Area. The complete comprehensive preliminary engineering study will provide the basis upon which stormwater improvements will be designed.

12. Resource Recovery Park

This project is a future initiative to meet stormwater requirements to incorporate remote operations/automation of weir gate operations and remote operation capability to gain efficiencies for several water flow and level control structures (weirs).

13. Weir Automation (P/N 50160)

This is one of many future initiatives being programmed as resources and funding becomes available. Current projects involving work on several water flow and level control structures (weirs) are in various stages of implementation. “Work” includes planning and design of powered weir gate operations and remote operation capability. All new and rehabilitated weirs with manually adjustable control gates are being considered for this potential future automation upgrade.

14. Old Lely (P/N TBD)

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Lely neighborhood community. This joint effort will reduce construction costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

15. Palm River Stormwater Improvement (P/N 60139)

This is multiyear improvement project being developed in coordination with the Public Utilities Department to include stormwater management, water and wastewater improvements within the Palm River community. This joint effort will reduce construction

costs by capitalizing on economy of scale and avoiding multiple disturbances in the neighborhood.

16. Cocohatchee River Dredge/Conveyance Project

The proposed stormwater improvement includes a survey and design of the dredge area to determine the silt removal quantity, develop spoil handling and disposal methodology, obtain all necessary permits, communicate/coordinate with all affected property owners, and dredging of the delineated areas of silt built-up at the Cocohatchee River and Palm River area, affecting downstream conveyance (site is generally located on the north side of Immokalee Road, approximately 0.4 miles east of Goodlette-Frank Road).

17. Poinciana Village

The stormwater improvement project will include stormwater management improvements within the Poinciana Village community, based on a preliminary engineering study that has identified design alternatives, constraints, and opportunities to improve the stormwater management system within Poinciana Village.

18. Plantation Island Canals/Ditches (P/N 60238)

Dredging of the Plantation Island Area waterways as a joint effort with Collier County Stormwater Management and Florida Department of Environmental Protection.

19. Modeling of Cocohatchee River/Haldeman/Henderson (P/N)

Modeling of the key areas as joint effort with Collier County Stormwater Management and South Florida Water Management District. The proposed study includes the modeling of key areas of conveyance of Collier County including but not limited to Cocohatchee River, Haldeman and Henderson Creeks.

20. Naples Manor

A preliminary engineering study to identify design alternatives, constraints and opportunities to improve the stormwater management system within Naples Manor. The complete comprehensive preliminary engineering study will provide the basis upon which stormwater improvements for Naples Manor will be designed.

Attachment “A”

COLLIER COUNTY STORMWATER MANAGEMENT PROJECT PLANNING PROCESS

Objective: To adequately identify and prioritize stormwater management projects to include in the County’s AUIR/5-year Plan and Budgeting process.

Purpose: To provide the Board County Commissioners with a general outline of the ongoing Project Planning and Prioritization Process.

Considerations: The Stormwater Management Project Planning Process identifies and prioritizes potential projects for advancement into the AUIR/5-year Plan and annual Stormwater Management budget process. Typically, project feasibility studies are completed first. Studies are then being used to rank the projects for eventual funding and construction within the County’s AUIR/5-year Plan and annual budget process. The feasibility studies will also provide staff with better project cost estimates for preparing budget requests. Input from external stakeholders will also be used to recommend projects for the AUIR/5-year Plan.

Plan Elements:

➤ **Potential Project Database**

Staff has developed a Comprehensive Stormwater Needs database that contains all potential future stormwater improvement projects. Projects are provided from three main sources: customer complaint database, staff knowledge and Planning Studies. This database is periodically updated to reflect new information as projects are implemented and sources provide new potential projects.

➤ **Project Profiles**

Staff selects potential projects from the database to gather detailed information to develop Project Profiles. Project Profiles are based by first determining the Objective of the Project, Benefit Area and Preliminary Conceptual Cost. Once those three basic components are defined, staff can provide information regarding affected acreage and population, per parcel cost, per acre cost, per capita cost, and per \$1,000 of assessed value cost. A narrative explaining the objective, purpose and needs of the project is also provided in the Project Profile.

➤ **Scoring Committee and Project Ranking Criteria**

A Stormwater Planning Process Committee has been established to review and score the Project Profiles. The seven (7) committee members, all county staff, come from different departments such as Stormwater, Comprehensive and Floodplain Management Planning, Engineering, Road Maintenance, and Pollution Control. Scoring is based on four major aspects: Health and Safety, Project Feasibility, Project Support, and Environmental Benefits.

➤ **Feasibility Studies**

Top ranked Project Profiles are selected for Feasibility Studies which provide more detailed and secured information regarding the project’s cost, life, and stages. Project Profiles are updated with information from the feasibility studies.

The Scoring Committee has ranked ten (10) projects; some current and ongoing, and some conceptual projects. The ranking and evaluation process and input from the committee has been deemed extremely useful and valid. As such, ranking information is considered and utilized in this current AUIR/5-year Plan.

Attachment “B”

SYSTEM INVENTORY AND GIS DATABASE REPORT

Objective: To maintain a complete and current inventory of all existing county-maintained stormwater and surface water management system assets.

Purpose: To provide the Board of County Commissioners with an update on progress made to date with establishment of the Stormwater Management System Inventory GIS Database

Considerations: For the past several years staff has been identifying existing stormwater management assets and sequentially building the stormwater management system geodatabase. The database currently includes the main canals and ditches, water level, and flow control structures and arterial roadway drainage infrastructure. Several hundred miles of collector and minor roadway swales, culverts and inlets are yet to be added to the dataset. They represent a majority of stormwater assets maintained on a day to day basis. All the water control structures are field verified and have conditional ratings. Field verification is ongoing for the arterial roadway stormwater management infrastructure.

Current data collection is being coordinated with Operation and Maintenance staff (O&M) activities to the greatest extent possible. When data collection technicians log entries associated with geodatabase objects in advance of a scheduled O&M activity, subsequent O&M activity entries can then be connected to geodatabase objects. In this way, a work history for each asset is created that is now associated to geodatabase objects. Creating a work history for each asset can result in high level reporting such as required by the state for the County National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (NPDES MS4) Permit, Permit # FLR04E037. Some examples are pesticide sprayers accounting for chemical usage including location and acreage and sediment removal tied to asset type (inlet, culvert, and swale).

Other information being collected and added to the database includes information collected during the right-of-way permitting process, roadside assets in neighborhoods, roadside improvements completed as part of neighborhood stormwater improvements, remedial work or existing condition assessments (surveys), roadway outfalls to canals or tidal waters, secondary county roadway swales, culverts, inlets and manholes including all Golden Gate Estates roads and the urban county roads, and outfalls from private developments discharging into the County maintained system.

The existing Stormwater Management System Inventory GIS Database is substantial, functioning, and has become an important tool used daily by O&M staff as well as Stormwater Planning staff. All the data, maps and asset tables produced for this AUIR were generated using the database. The database is being used to capture information that is essential for mandated reporting to the state as part of the County’s NPDES MS4 Permit requirements, as well as reporting for the County’s participation in the National Flood Insurance Program Community Rating System (NFIP CRS).

Table 3: Existing Collier County Stormwater Control Structures

	Structure ID	Facility Name	Equipment Type	2012 Condition Report	2019 Condition Report
1	ARN-02-S0110	Four Seasons Outfall	Weir - Fixed Stage	C2	C2
2	ARN-02-S0120	Four Seasons	Weir - Fixed Stage	C2	C3
3	ARN-19-S0100	Victoria Park Pump Station	Pump Station		C3
4	ARS-01-S0100	Hawks Ridge Pump Station	Pump Station		C2
5	BRN-00-S0110	Sunni land	Weir - Slide Gate	C1	C1
6	C4C-00-S0110	Eagle Creek	Weir - Slide Gate	C2	C1
7	CRB-06-S0150		Weir - Fixed Stage		TBD
8	D1C-00-S0120	Harvey #1	Weir - Slide Gate	C2	C2
9	D1C-00-S0150	Harvey #2	Weir - Slide Gate	C2	C1
10	D1C-01-S0102	VBR Weir	Weir - Fixed Stage	C1	C1
11	D2C-08-S0110	Island walk Inflow	Weir - Fixed Stage	C1	C2
12	EBC-00-S0110	Coco East	Weir- AMIL Gate	C2	C3
13	GRE-00-S0100	Gordon River	Weir- AMIL Gate	C2	C3
14	GRE-00-S0124	Gordon River Extension	Weir - Fixed Stage	TBD	TBD
15	GRE-01-S0480	Goodlette Road Canal #1	Weir - Fixed Stage	C3	C3
16	GRE-01-S0510	Goodlette Road Canal #2	Weir - Fixed Stage	C1	C3
17	GRE-03-S0100	Freedom Park Overflow (Bypass) Weir	Weir - Fixed Stage	C1	C1
18	GRE-04-S0110	Poinciana	Weir - Flashboard	TBD	TBD
19	GRE-36-S0100	FP Spreader Berm	Weir - Fixed Stage	TBD	C1
20	GRE-36-S0120	FP Wetlands Weir	Weir - Fixed Stage	C1	C3
21	GRE-36-S0240	FP Waterfall	Weir - Fixed Stage	TBD	TBD
22	GRE-36-S0280	Freedom Park Goodlette Rd. Pump Station	Pump Station		C1
23	GRE-39-S0100	West Lake Outfall	Weir - Fixed Stage	C1	C3
24	GRE-41-S0130	Twin Lakes Outfall	Weir - Fixed Stage	C1	C2
25	GRE-42-S0130	Freedom Park Gordon River Pump Station	Pump Station		C1
26	GRE-44-S0140	Sperling Lake Outfall	Weir - Fixed Stage	C1	C1
27	GTB-00-S0100	Tide-Flex and Flap Gates	Tide Valve - Flap Gate	C2	C3
28	GTB-04-S0110	Gateway Triangle	Weir - Fixed Stage	C2	C2
29	GTB-04-S0120		Weir - Fixed Stage		
30	GTB-13-S0170	Gateway Triangle Pump Station	Pump Station		C2
31	HCB-00-S0144	Haldeman Creek	Weir - Crest Gate		C1
32	HCB-00-S0200	Lakewood County Club Weir	Weir - Flashboard	C1	C1
33	HCB-00-S0220	Lely Branch Splitter	Weir - Slide Gate	TBD	C1

34	HCB-01-S0100	Lake Kelly	Weir - Fixed Stage	C1	C3
35	HCB-02-S0106	Lake Avalon	Weir - Fixed Stage	C2	C3
36	HEC-03-S0100	Henderson #3	Weir - Slide Gate		C2
37	HEC-04-S0100	Henderson #4	Weir - Slide Gate	TBD	TBD
38	HEC-05-S0100	Henderson #5	Weir - Slide Gate	TBD	TBD
39	LCB-00-S0122	Doral Circle	Weir - Slide Gate	C1	C1
40	LCB-00-S0150	Royal Wood	Weir - Slide Gate	C1	C1
41	LCB-00-S0190	Santa Barbara #1	Weir - Slide Gate	C1	C1
42	LCB-00-S0210	Santa Barbara #2	Weir - Slide Gate	C1	C1
43	LCB-00-S0230	Santa Barbara #3	Weir - Slide Gate	C1	C2
44	LCB-01-S0106	Lely Branch Canal	Weir - Slide Gate		C1
45	LCB-01-S0140	Crown Pointe	Weir - Slide Gate	C2	C1
46	LCB-01-S0174	Davis Blvd	Weir - Slide Gate	TBD	TBD
47	LCB-09-S0400	County Barn East	Weir - Slide Gate		TBD
48	LCB-09-S0446	Cope Lane Pond	Weir - Slide Gate		TBD
49	LCB-15-S0100	Rattlesnake Rd. Weir	Weir - Fixed Stage	C1	C1
50	LCB-16-S0290		Weir - Slide Gate		TBD
51	LCB-20-S0220	Whitaker Rd Ditch Block (West)	Weir - Fixed Stage	TBD	TBD
52	LCB-20-S0230	Whitaker Rd Weir	Weir - Slide Gate	TBD	C1
53	LMB-00-S0100	Manor South	Weir - Fixed Stage	C1	TBD
54	LMB-00-S0120	Manor North	Weir - Fixed Stage	C1	C1
55	LMB-00-S0150	Warren Street Weir	Weir - Slide Gate	TBD	TBD
56	LMB-07-S0100	Lely Wetland Pump Station	Pump Station		C1
57	LMB-15-S0100	R.H. Slough Weir Naples Manor	Weir - Fixed Stage		TBD
58	LMB-15-S0100	<Null>	Spreader Waterway		TBD
59	LMB-16-S0120	Wing South #2	Weir - Slide Gate		C1
60	LMB-16-S0140	Wing South #1	Weir - Slide Gate		C1
61	LMB-17-S0300	Wing South West	Weir - Slide Gate		C1
62	MGG-12-S0120	Fairgrounds	Weir - Fixed Stage	TBD	C1
63	MGG-16-S0140	Radio Rd.	Weir - Fixed Stage	C1	C2
64	MGG-20-S0060		Weir - Flashboard		TBD
65	PLM-00-S0100	Palm River Weir	Weir - Flashboard	C2	C2
66	PRC-00-S0110	Pine Ridge 1	Weir- AMIL Gate	C4	C1
67	RCB-02-S0110	Hazel Rd. Weir	Weir - Fixed Stage	C2	C3
68	RCB-04-S0110	Collier Co. Production Park S.	Weir - Fixed Stage	C2	C1
69	WBB-01-S0110	Wiggins Pass Weir	Weir - Fixed Stage	C2	C2
71	WBC-00-S0110	Coco West	Weir- AMIL Gate	C2	C3
72	WBC-02-S0210	Victoria Park West Outfall	Weir - Fixed Stage	TBD	C3

Table based on 2019 Collier County GIS Database

Table 4: Control Structure Inspection Rating System

Overall Rating	Description for the Overall Structure	Application
C1	All old deficiencies noted from the previous inspection have been corrected.	Applied when no further action is recommended for the structure.
C2	Most old deficiencies noted from the previous inspection have been corrected.	Applied when the overall recommendation is to monitor minor deficiencies. Deficiencies will generally be re-evaluated at the next five-year inspection of the structure. Provide overall recommendation on when (timeframe) to monitor deficiencies previous to the next structure inspection cycle.
C3	Deficiencies and/or several old deficiencies noted in the last inspection have not been corrected.	Applied when the overall recommendation is to repair the structure during the next maintenance cycle or within 5 to 10-year capital repair schedule. Maintenance repairs are generally estimated to cost less than \$50,000; will not require engineering design.
C4	Serious deficiencies exist that if not immediately corrected may lead to or cause deterioration of the structure.	Applied when the overall recommendation is to elevate repairs to the County's five-year capital repair program. Includes repairs that are generally estimated to cost \$50,000 or more, will require engineering design, or should be repaired within a five-year period.
C5	Major deficiencies exist such that the structural integrity of the structure will probably not withstand a major flood event.	Applied when the overall recommendation is to elevate repairs to the County's capital repair program, but repairs should be conducted in the next cycle of repairs. Generally, the next cycle of repairs would include repair design in the fiscal year following inspection with repair in the fiscal year following design (two-year process).
C5 Critical	Emergency deficiencies exist that must be addressed immediately. Deficiencies include those that impede operation of the structure or jeopardize public safety.	Applied when immediate repairs are recommended. Generally, the County would respond by dispatching its Field Station personnel to triage the deficiency (e.g., block access to the structure, reduced structure operating capacity) until repairs could be affected. Responding County design engineers would be altered to fast track repairs if triage does not ameliorate the deficiencies.

****TBD:** Current condition not known at this time. Update upon next inspection.

Attachment “D”

BASINS AND SUB-BASIN REPORT

Objective: To guide the County’s Stormwater Management Program by utilizing a watershed management approach.

Purpose: To provide a general update on the basins/watersheds used for water resource management and planning within the County.

Considerations: The Stormwater Management Program began a new approach to water resource management with the BCC’s acceptance of the County Watershed Management Plan on December 13, 2011. The Plan provides assessment and management information for geographically defined watersheds including: analysis, actions, participants, and resources related to developing and implementing the Plan. Understanding issues on a basin by basin level allows for better quantitative analysis and program planning. The Board directed staff to implement the Plan as funding and resources became available. Staff continues to follow that directive when initiating Plan recommendations.

There are currently 51 basins in the Stormwater Management GIS database. Since 1990 (Ord. 90-10), the County has had a maximum allowable post-development stormwater runoff discharge rate of 0.15 cubic feet per second (cfs) per acre for all basins, with six (6) exception areas (basins) ranging from 0.04 to 0.13 cfs per acre. These more restrictive rates were established through modeling efforts that demonstrated the need to restrict flows from adjacent lands to the receiving canals. Stormwater discharge rates are limited so the rate at which runoff leaves a developed site will not cause adverse off-site (typically downstream) impacts.

In the development of the Watershed Management Plan (WMP), computer modeling was used to determine the maximum flow that can be conveyed by the various water management canal segments. Results from that effort indicated that various segments of the primary and secondary water management systems do not have the capacity to handle large storm events. Expansion or enlargement of this system to create additional system capacity is not a viable strategy for managing stormwater flows. One means of addressing this limited capacity is to restrict the maximum flow in the associated basins that feed into the canals. The WMP included recommendations to reduce the maximum allowable post-development discharge rates in several basins.

In addition to these recommendations in the WMP, two additional detailed stormwater management master plans, developed jointly by the South Florida Water Management District and the County for the Belle Meade and Immokalee areas, recommended further limiting the discharge rates for four (4) basins/sub-basins. Conditions may worsen in the future unless management actions are implemented to control the impact of subsequent changes to land use. In total, reducing maximum allowable post-development discharge rates in sixteen (16) basins/sub-basins will ensure adequate flood protection levels of service.

A feasibility study and impact analysis was completed to examine the effects of implementation of the discharge rate restrictions. Staff fully vetted the new restricted discharge rates with the Development Services Advisory Committee, the Collier County Planning Commission and, the

South Florida Water Management District. The new rates were then approved by the Board of County Commissioners on June 13, 2017 and became effective on August 4, 2017.

This report includes a listing of all basins with their respective acreage (Table 5); a map depicting all basins within the County (Figure 4); and, a map depicting the twenty-two (22) basins that have restricted stormwater discharge rates (Figure 5).

Basins and Discharge Rates

<u>Specific Discharge Limitation Basins</u>		<u>Rate</u>
1.	Airport Road North Canal Basin	0.04 cfs/acre
2.	Airport Road South Canal Basin	0.06 cfs/acre
3.	Cocohatchee Canal Basin	0.04 cfs/acre
4.	Lely Canal Basin	0.06 cfs/acre
5.	Harvey Canal Basin	0.06 cfs/acre
6.	Wiggins Bay Outlet Basin	0.13 cfs/acre
7.	Henderson Creek - Belle Meade Basin North	0.06 cfs/acre
8.	Henderson Creek - Belle Meade Basin South	0.04 cfs/acre
9.	Immokalee Master Basin East	0.05 cfs/acre
10.	Immokalee Master Basin West	0.10 cfs/acre
11.	951 Canal North Basin	0.11 cfs/acre
12.	C-4 Canal Basin	0.11 cfs/acre
13.	Corkscrew Canal Basin	0.04 cfs/acre
14.	Cypress Canal Basin	0.06 cfs/acre
15.	Faka-Union Canal Basin-N	0.09 cfs/acre
16.	Gordon River Extension Basin	0.09 cfs/acre
17.	I-75 Canal Basin	0.06 cfs/acre
18.	Imperial Drainage Outlet Basin	0.12 cfs/acre
19.	Lely Manor Canal Basin	0.06 cfs/acre
20.	Main Golden Gate Canal Basin	0.04 cfs/acre
21.	Palm River Canal Basin	0.13 cfs/acre
22.	Pine Ridge Canal Basin	0.13 cfs/acre

Collier County Basins Map

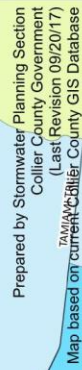


Figure 5: Collier County Basins with Restricted Allowable Discharge Rates Map

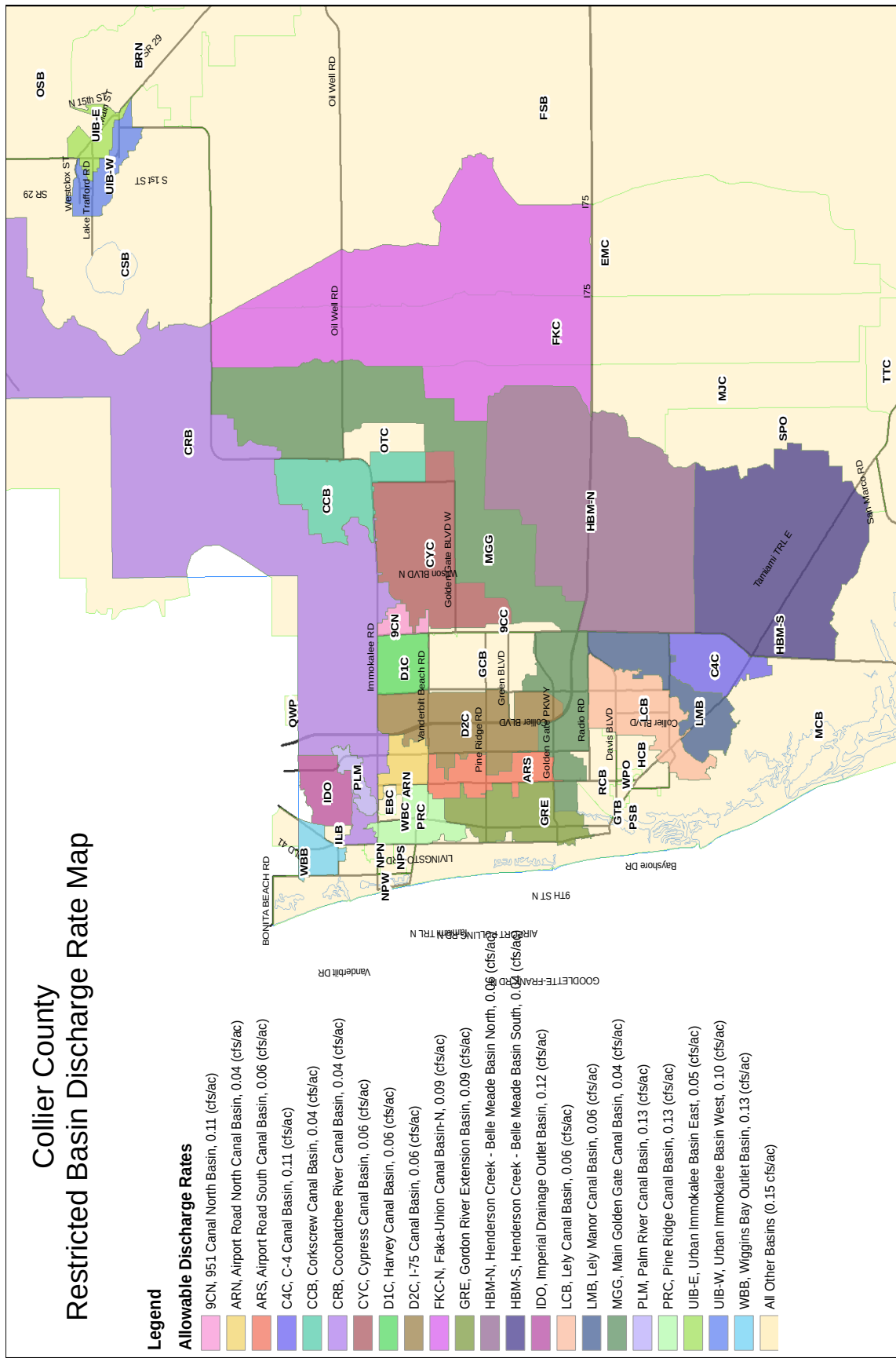


Table 5: Collier County Basins

	Basin ID	Name	Area (Acres)
1	9CC	951 Canal Central Basin	835
2	9CN	951 Canal North Basin**	828
3	ARN	Airport Road North Canal Basin **	1,717
4	ARS	Airport Road South Canal Basin **	3,124
5	BRC	Barron River Basin	27,635
6	BRN	Barron River Canal Basin (North)	16,873
7	C4C	C-4 Canal Basin**	3,582
8	CCB	Corkscrew Canal Basin**	6,466
9	CSB	Corkscrew Slough Basin	28,016
10	CSB	Cocohatchee River Canal Basin **	90,389
11	CYC	Cypress Canal Basin**	10,885
12	D1C	Harvey Canal Basin **	2,478
13	D2C	I-75 Canal Basin**	8,489
14	EBC	East Branch Cocohatchee	382
15	EMC	Merritt Canal Basin	43,772
16	FKC	Faka-Union Canal Basin**	35,581
17	FSB	Fakahatchee Strand Basin	146,611
18	GCB	Green Canal Basin	5,082
19	GHS	Gator Hook Strand Basin	262,969
20	GRE	Gordon River Extension Basin**	5,064
21	GTB	Gateway Triangle Basin	273
22	HCB	Haldeman Creek Basin	1,830
23	HBM-N	Henderson Creek – Belle Meade Basin North**	31,134
24	HBM-S	Henderson Creek – Belle Meade Basin South**	24,395
25	IDO	Imperial Drainage Outlet Basin**	2,528
26	ILB	Imperial West Landmark FPL Basin	275
27	L28	L-28 Tieback Basin	118,960
28	LCB	Lely Canal Basin **	5,853
29	LMB	Lely Manor Canal Basin**	5,306
30	MCB	Miscellaneous Coastal Basins	189,172
31	MGG	Main Golden Gate Canal Basin**	29,376
32	MJC	Miller Canal Basin	16,086
33	NPN	Naples Park North Basin	429
34	NPS	Naples Park South Basin	352
35	NPW	Naples Park West Basin	279
36	OSB	Okaloacoochee Slough Basin	146,766
37	OTC	Orange Tree Canal Basin	2,029
38	PLM	Palm River Canal Basin**	982
39	PRC	Pine Ridge Canal Basin**	2,659
40	PSB	Palm Street Basin	65
41	QWP	Quail West Phase II	319
42	RCB	Rock Creek Basin	1,884
43	SPO	Seminole Park Outlet Basin	10,752
44	TRB	Turner River Canal Basin	316,480
45	TTC	Tamiami Trail Canal Basin	4,611
46	UIB-E	Urban Immokalee Basin East**	1,691
47	UIB-W	Urban Immokalee Basin West**	2,459
48	WBB	Wiggins Bay Outlet Basin **	2,308
49	WBC	West Branch Cocohatchee River Basin	249
50	WPO	Winter Park Outlet Basin	173

** Basins with restricted discharge rates

COUNTY WATER - SEWER DISTRICT – POTABLE WATER SYSTEM

CONTENTS

- **POTABLE WATER SYSTEM 2019 AUIR FACILITY SUMMARY
INTRODUCTION**
- **LEVEL OF SERVICE (LOSS) STANDARD ASSESSMENT FOR
SERVICE AREA (TABLE, NOTES)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - CURRENT
AND FUTURE POTABLE WATER SERVICE AREAS (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - WATER
SERVICE JURISDICTION (MAP)**
- **FUTURE DEVELOPMENT IN NORTHEAST COLLIER
COUNTY (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - SYSTEM
UTILIZATION AND DIMINISHING CAPACITY REPORT
("CHECKBOOK")**
- **EXHIBIT 'A' - SCHEDULE OF CAPITAL IMPROVEMENTS**
- **APPENDIX "H" - FUTURE COSTS AND REVENUES BY TYPE
OF PUBLIC FACILITY**

2020 AUIR FACILITY SUMMARY
POTABLE WATER SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Potable Water System Facilities

Level of Service Standard: 120 gallons per capita day (gpcd) ⁽¹⁾

Capacity:

Total Permitted Treatment Capacity, FY 21	52.00 MGD
Total Operational Treatment Capacity, FY 21	48.00 MGD
Required Treatment Capacity, FY 21	34.98 MGD
Total Permitted Treatment Capacity, FY 30	54.88 MGD
Total Operational Treatment Capacity, FY 30	50.88 MGD
Required Treatment Capacity, FY 30	42.04 MGD

Expenditures FY21-FY25

⁽²⁾

Debt Service	\$49,163,500
Expansion Related Projects - Other	\$45,725,000
Replacement & Rehabilitation Projects - Other	\$166,210,000
Departmental Capital	\$3,851,000
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$16,623,000</u> ⁽³⁾
TOTAL	\$281,572,500

Existing Revenue Sources FY21-FY25

Water System Development Fees / Impact Fees	\$32,000,000
Bonds	\$45,725,000
State Revolving Fund Loans	\$0
Water Capital Account	\$3,851,000
Rate Revenue	<u>\$199,996,500</u>
TOTAL	\$281,572,500

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

That the BCC find the Collier County Water-Sewer District Potable Water System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2020 CCWSD Potable Water System Facilities AUIR and adopt the CIE update for FY21-FY25.

Conclusion:

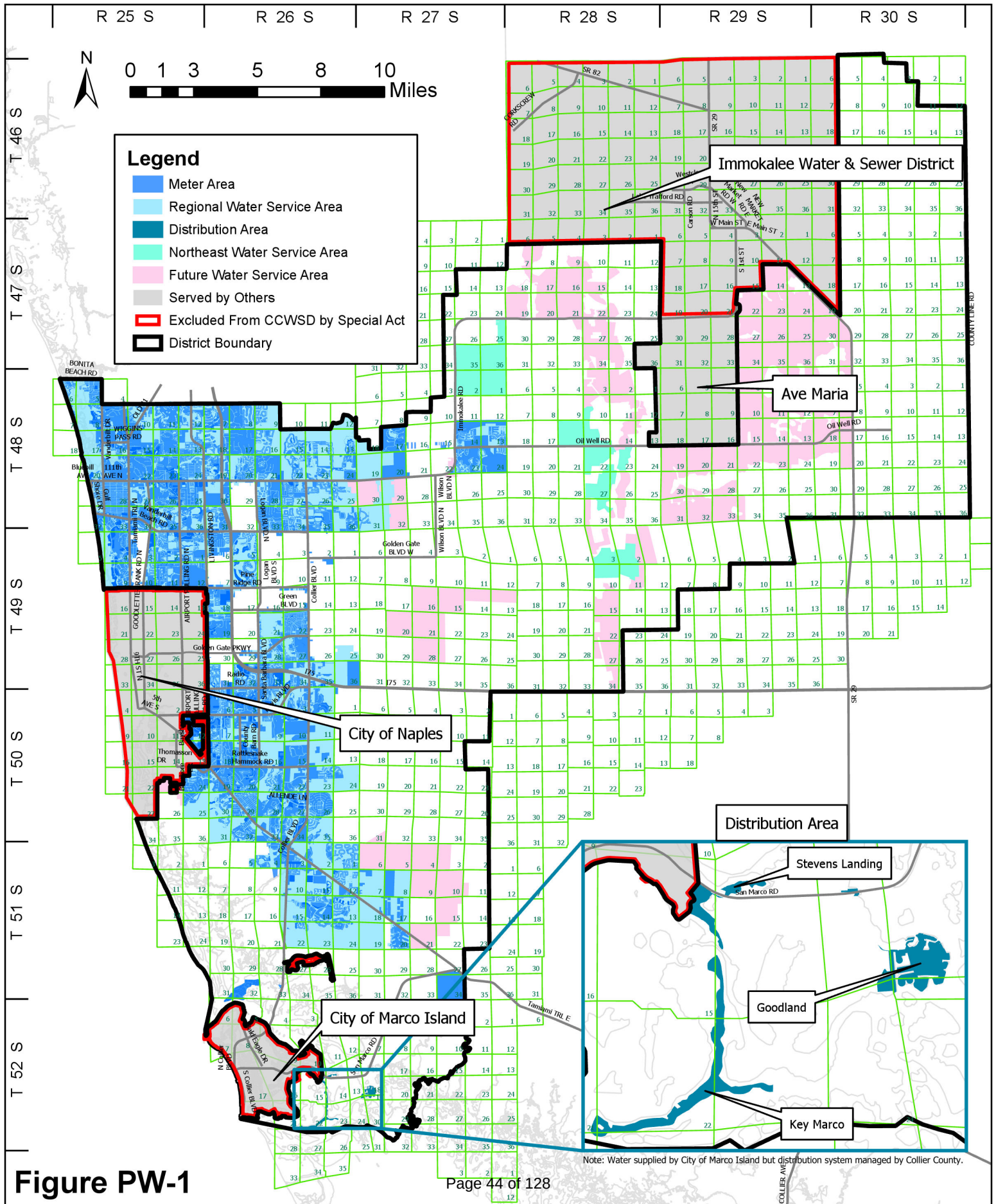
To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects commenced in FY 2019 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

⁽¹⁾ Per the most recent Board-approved rate study, which reduced the Equivalent Residential Connection (ERC) value from 350 to 300 GPD, and dividing by an average household size of 2.5 persons

⁽²⁾ The CIE is consistent with the Board-approved FY21 budget.

⁽³⁾ As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses.

Collier County Water-Sewer District Current and Future Water Service Areas



Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The Public Utilities Department's proposed 2020 Potable Water System Treatment Facilities AUIR is based on permanent population estimates and projections for the potable water service area prepared by the Collier County Comprehensive Planning Section on June 9, 2020. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2030.

The BEBR population numbers are adjusted using data from the Collier Interactive Growth Model, as produced and maintained by Metro Forecasting Models, LLC, including estimates for the Northeast and Golden Gate City Water Service Areas, where growth rate has not been established or only a portion of the population is served.

Notes

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "jurisdictional boundary," as shown on the map entitled "Collier County Water-Sewer District Current and Future Potable Water Service Areas," encompasses the villages planned in the Northeast Service Area, including three villages in the Big Cypress Stewardship District (Rivergrass, Longwater, and Bellmar), the adjacent Hyde Park Village, and Immokalee Road Rural Village, all depicted on the preceding service area map.
- C. To support forecasted growth in the Northeast Service Area, an interim 0.875 MGD water treatment plant will be added followed by incremental 1 MGD expansions as dictated by demand. This facility will be sited on the 147-acre County-owned Northeast Utility Facilities (NEUF) property at the east end of 39th Ave NE.

New regional plant construction is anticipated outside the AUIR planning horizon. The eventual addition of a third regional water treatment plant will provide the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging demands on the existing two plants and will allow for rehabilitation and replacement. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2028).

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the "Collier County Water-Sewer District System Utilization and Diminishing Capacity Report" (the "Checkbook"), which compares available treatment capacity to potential demand from undeveloped permitted uses in Board-approved planned unit developments (PUDs). The Checkbook uses the historical maximum 3-day average daily demand and monthly average daily demand from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements. Currently, the Checkbook reports that if all active Board-approved PUDs were built-out, the regional potable water system would have a 6% surplus in permitted treatment capacity.

- D. The Public Utilities Department has commenced new master plans for water, wastewater, and irrigation quality water under Contract # 18-7370, with an anticipated completion in FY 2021. These plans will confirm level of service (LOS) standards and the timing of capacity needs. For this AUIR, LOS standards have been reduced in accordance with the most recent Board-approved rate study.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The 2020 Potable Water System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2021 and FY 2022, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

Recommendation

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners approve the 2020 CCWSD Potable Water System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/23/2020

1	2	3	4	5	6	7	8
Fiscal Year	Permanent Population Served on Oct. 1	Required Treatment Capacity at Max. TDADD MGD	New Treatment Capacity MGD	Total Permitted Treatment Capacity MGD	Total Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Percent of Total Permitted Capacity (Max. Day) MGD
2016	175,399	27.4		52.00	48.00	20.6	55%
2017	179,713	28.0		52.00	48.00	20.0	56%
2018	190,110	29.7		52.75	48.75	19.1	58%
2019	213,170	33.3		52.00	48.00	14.7	66%
2020	219,500	34.2		52.00	48.00	13.8	68%
2021	224,218	35.0		52.00	48.00	13.0	70%
2022	228,655	35.7	0.88	52.88	48.88	13.2	70%
2023	233,181	36.4		52.88	48.88	12.5	71%
2024	239,206	37.3		52.88	48.88	11.6	73%
2025	245,325	38.3		52.88	48.88	10.6	75%
2026	250,975	39.2	1.00	53.88	49.88	10.7	75%
2027	256,110	40.0		53.88	49.88	9.9	77%
2028	261,301	40.8		53.88	49.88	9.1	79%
2029	265,682	41.4		53.88	49.88	8.4	80%
2030	269,503	42.0	1.00	54.88	50.88	8.8	80%

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

10/20/2020

Notes (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 9, 2020. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2030. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the NE Utility (formerly Orangetree Utilities - OTU) WTP service area beginning in FY 2018 and the Golden Gate City service area (approximately 4 square miles) beginning in FY 2019 based on acquisition dates during FY 2017 and FY 2018 respectively. The CCWSD presently supplies potable water to a population of approximately 17,120 in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," and using revised population figures from the Collier Interactive Growth Model, Phase 2 will increase the population served to 26,705 within 10 years after acquisition. At least 138 new water customers have been connected since system acquisition in March 2018, increasing the total number of water customers in Golden Gate City from 3,687 to 3,825 as of January 2020. Additional water customers are being connected on an individual basis where existing infrastructure is available. Larger system expansion is anticipated through a coordinated effort with the Growth Management Department.

3. Required Treatment Capacity at Max. TDADD is obtained by multiplying the Permanent Population Served on Oct. 1 by 120 gallons per capita per day (gpcd) and by a maximum 3-day daily demand (TDADD) peaking factor of 1.3 and is expressed in million gallons per day (MGD). 120 gpcd is the established Level of Service (LOS) Standard for the Potable Water Service Area, as adopted by the Board in the most recent rate study, and 1.3 is the TDADF peaking factor per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan adopted with the 2015 CCWSD Wastewater Treatment Systems AUIR, as approved by the Board of County Commissioners on November 10, 2015.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2022	0.875 MGD	\$5M 0.875 MGD interim water treatment plant at the NEUF site, repurposing equipment from the decommissioned Golden Gate WTP, to facilitate development in the Northeast Water Service Area, beginning in FY 2021 and online by FY 2022
2026	1 MGD	\$2M 1 MGD expansion to the interim water treatment plant at the NEUF site to facilitate development in the Northeast Water Service Area, beginning in FY 2025 and online by FY 2026
2030	1 MGD	\$2M 1 MGD expansion to the interim water treatment plant at the NEUF site to facilitate development in the Northeast Water Service Area, beginning in FY 2029 and online by FY 2030

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

10/20/2020

5. Total Permitted Treatment Capacity is the total permitted finished water treatment capacity at the beginning of the fiscal year in million gallons per day (MGD), including New Treatment Capacity.

Capacity in FY 2018 increased by 0.75 MGD (as currently sited) because Orangetree Utilities (OTU) was integrated into the CCWSD on March 1, 2017 (during FY 2017), but decreased the following fiscal year due to the water treatment plant being decommissioned on August 13, 2018. Twin Eagles potable water services transitioned from the NE Utility WTP (former OTU) to the CCWSD Regional potable water system on December 18, 2017. All customers within the Orangetree PUD and the Orange Blossom Ranch PUD as well as the Corkscrew Elementary/Middle and the Palmetto Ridge High public school campuses were diverted through reliability interconnects over the course of FY 2018.

Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority occurred on March 1, 2018. Existing Golden Gate City Utility potable water facilities include a 2.1 MGD water treatment plant; however, no additional capacity is stated because this area is now served by the nearby CCWSD regional potable water system. Unused Golden Gate City Utility assets are being repurposed and/or decommissioned, depending on condition.

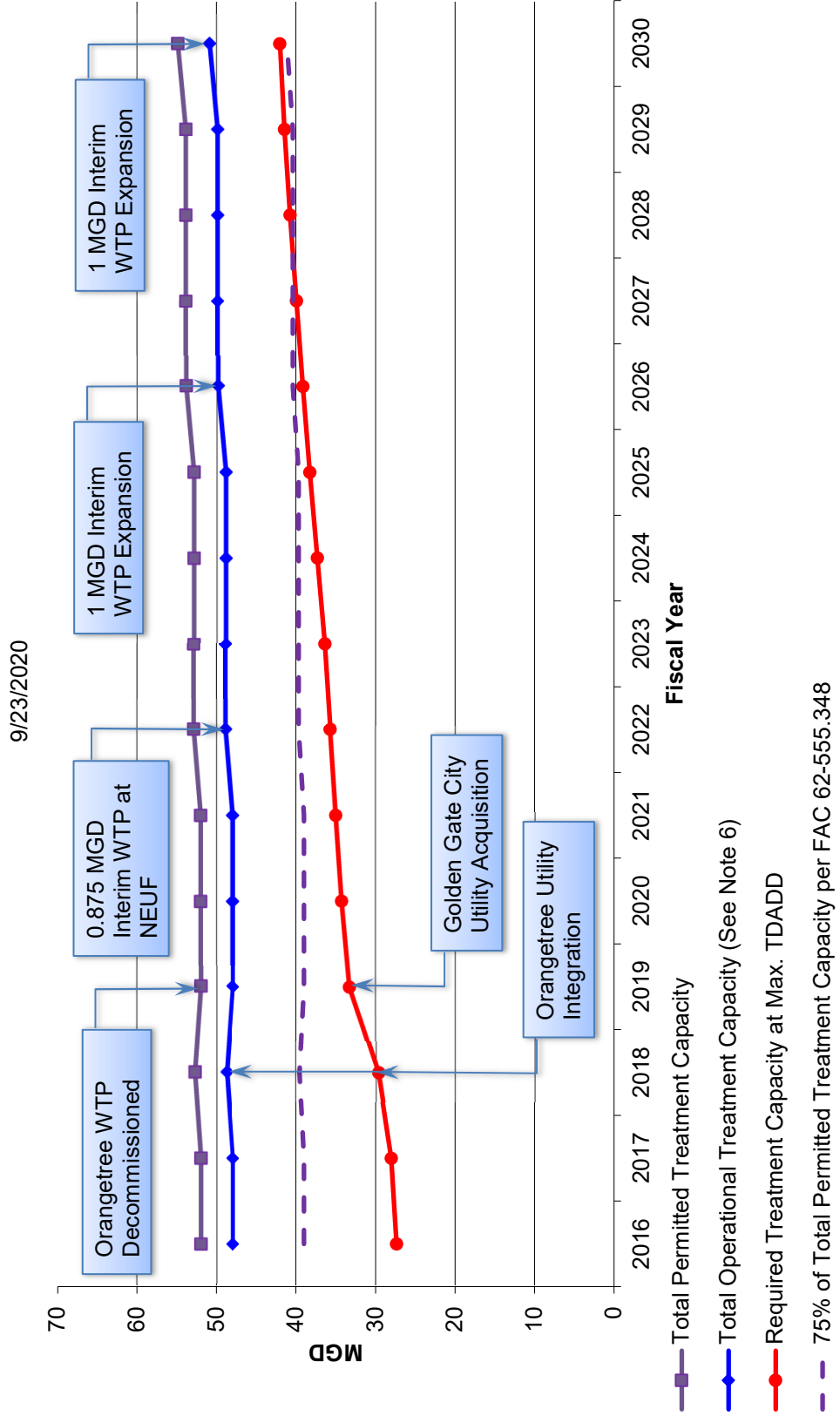
6. Total Operational Treatment Capacity (See Note 6) is the Total Permitted Treatment Capacity less 4 MGD, the treatment capacity of a lime softening reactor/clarifier, which could be out of service during a period of peak demand, as plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADD.

7. Retained Operational Treatment Capacity is the Total Operational Treatment Capacity (See Note 6) minus the Required Treatment Capacity at Max. TDADD.
8. Percent of Total Permitted Capacity (Max. Day) is the total maximum-day quantity of finished water produced by all treatment plants connected to the water system as a percentage of Total Permitted Treatment Capacity. Per FAC 62-555.348, source/treatment/storage capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once maximum-day demand exceeds 75% of Total Permitted Treatment Capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR POTABLE WATER SERVICE AREA
LOS: 120 GPCD



Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/23/2020

FRESH WATER

There is one existing wellfield that supplies fresh water to the two regional plants and a small existing wellfield that supplies fresh water to the NE Utility WTP. Another small wellfield will be built to serve the future NERWTP. Each is discussed in more detail below.

Golden Gate Wellfield

Raw fresh water is provided to both the North County Regional Water Treatment Plant (NCRWTP) and the South County Regional Water Treatment Plant (SCRWTP) from the Golden Gate Wellfield. The wellfield has a current inventory of 36 wells that terminate in the Lower Tamiami Aquifer. 10 additional wells are scheduled to be constructed in the next 10 years.

The NCRWTP utilizes a membrane filtration (MF) water treatment process that produces a maximum of 12 million gallons per day (MGD) of potable water. The treatment process is 85% efficient (i.e. produces 85 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The SCRWTP utilizes a lime softening water treatment process that produces a maximum of 12 MGD of potable water. The treatment process is 97% efficient.

The two treatment processes produce a combined total of 24 MGD of potable water with a combined efficiency of 91%. A total of 26.5 MGD of raw water is needed to operate the two processes at maximum capacity.

The wells in the Golden Gate Wellfield have an average production rate of 1.267 MGD. In order to produce the 26.5 MGD of raw water necessary to run the water treatment processes at maximum capacity, a minimum of 12 wells are required.

A Minimum Reliability Standard (MRS) of 20% is used for fresh water wells (1 reliability well for every 5 production wells). At full treatment capacity, the MRS requires 15 wells.

Northeast Service Area (NESA) Wellfield

The NESA Wellfield has a current inventory of 3 wells that terminate in the Lower Tamiami Aquifer. The wells in the NESA Wellfield have an average production rate of 0.432 MGD. They will be repurposed for an interim WTP at the NEUF site, the first phase of which is to be online in FY 2022. 1 supplemental well will be constructed to achieve full treatment capacity of the initial phase of the interim WTP.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/23/2020

Northeast IE Wellfield

Raw fresh water from the Lower Tamiami and/or Hawthorn Zone 1 aquifers will be provided to the NERWTP from the Northeast IE Wellfield. 3 wells will be constructed for the second and third phases of the interim WTP at the NEUF site. The first phase of the permanent facility will be completed outside the planning horizon of this AUIR.

The second and third phases of the interim WTP at the NEUF site will utilize an ion exchange (IE) water treatment process that will produce a maximum of 2 MGD of potable water. The treatment process will be 82% efficient (i.e. will produce 82 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the Northeast IE Wellfield will have an average production rate of 1.440 MGD. In order to produce the 2.44 MGD of raw water necessary to run the Phase 3 interim water treatment process at maximum capacity, a minimum of 2 wells would be required.

An MRS of 20% is used for fresh water wells (1 reliability well for every 5 production wells). At full treatment capacity, the MRS would require 3 wells for the interim WTP at the NEUF site.

BRACKISH WATER

There are two separate wellfields that independently provide brackish water to the two regional plants. Another small wellfield will be built to serve the future NERWTP. Each is discussed in more detail below.

North RO Wellfield

The North RO Wellfield supplies brackish water to the NCRWTP from 25 wells that terminate in the mid- and lower-Hawthorn aquifers.

The NCRWTP utilizes a low-pressure reverse osmosis (RO) water treatment process that produces a maximum of 8 MGD of potable water. The treatment process is 75% efficient. 10.7 MGD of raw water is needed at full treatment capacity.

The wells in the North RO Wellfield have an average production rate of 1.066 MGD. In order to produce the 10.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 11 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 15 wells are needed to meet the MRS at full treatment capacity. No additional wells are scheduled to be constructed in the next 10 years, however 3 high-TDS wells that are presently inactive will be reactivated in FY 2024. (See note 4.)

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**POTABLE WATER SYSTEM - WELLFIELD FACILITIES
SUMMARY**

9/23/2020

South RO Wellfield

The South RO Wellfield supplies brackish water to the NCRWTP from 45 wells that terminate in the mid- and lower-Hawthorn aquifers.

The SCRWTP utilizes a low-pressure RO water treatment process that produces a maximum of 20 MGD of potable water. The treatment process is 75% efficient. 26.7 MGD of raw water is needed at full treatment capacity.

The wells in the South RO Wellfield have an average production rate of 1.069 MGD. In order to produce the 26.7 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 25 wells are required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). A total of 34 wells are needed to meet the MRS at full treatment capacity. No additional wells are scheduled to be constructed in the next 10 years.

Northeast RO Wellfield

Raw brackish water will be provided to the NERWTP from the Northeast RO Wellfield. The first phase of the permanent facility will be completed outside the planning horizon of this AUIR but will include 3 wells that terminate in the lower Hawthorn aquifer.

Phase 1 of the NERWTP will utilize a low-pressure RO water treatment process that will produce a maximum of 1.25 MGD of potable water. The treatment process will be 75% efficient (i.e. will produce 75 gallons of potable water for every 100 gallons raw water withdrawn from the aquifer).

The wells in the Northeast RO Wellfield will have an average production rate of 1.440 MGD. In order to produce the 1.67 MGD of raw water necessary to run the water treatment process at maximum capacity, a minimum of 2 wells will be required.

An MRS of 33% is used for brackish water wells (1 reliability well for every 3 production wells). At full treatment capacity, the MRS would require 3 wells.

CONCLUSION

The CCWSD's existing wellfields have capacities in excess of the minimum reliability standards based upon the population estimates and projections for the regional potable water system service area, and future wellfields of reliable capacities will be timely completed in support of the interim WTP at the NEUF site.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/23/2020

1	2	3	4	5	6	7	8	9
Fiscal Year	Required Finished Water for Max. TDADD	Golden Gate Wellfield Reliable Capacity	North RO Wellfield Reliable Capacity	South RO Wellfield Reliable Capacity	NESA Wellfield Reliable Capacity	Northeast IE Wellfield Reliable Capacity	Northeast RO Wellfield Reliable Capacity	Total Wellfield Reliable Capacity
	MGD	MGD	MGD	MGD	MGD	MGD	MGD	MGD
2016	27.4	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2017	28.0	24.00*	8.00*	20.00*	0.75*	0.00	0.00	52.75
2018	29.7	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2019	33.3	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2020	34.2	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2021	35.0	24.00*	8.00*	20.00*	0.00	0.00	0.00	52.00
2022	35.7	24.00*	8.00*	20.00*	0.88*	0.00	0.00	52.88
2023	36.4	24.00*	8.00*	20.00*	0.88*	0.00	0.00	52.88
2024	37.3	24.00*	8.00*	20.00*	0.88*	0.00	0.00	52.88
2025	38.3	24.00*	8.00*	20.00*	0.88*	0.00	0.00	52.88
2026	39.2	24.00*	8.00*	20.00*	0.88*	1.00*	0.00	53.88
2027	40.0	24.00*	8.00*	20.00*	0.88*	1.00*	0.00	53.88
2028	40.8	24.00*	8.00*	20.00*	0.88*	1.00*	0.00	53.88
2029	41.4	24.00*	8.00*	20.00*	0.88*	1.00*	0.00	53.88
2030	42.0	24.00*	8.00*	20.00*	0.88*	2.00*	0.00	54.88

*Wellfield reliable capacity is limited by the capacity of the associated treatment process.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/23/2020

Notes (References are to the column numbers on previous page)

1. Fiscal Year starts October 1 and ends September 30.
2. Required Finished Water for Max. TDADD - See note 3 in LOS standard assessment for treatment facilities.
3. Golden Gate Wellfield Reliable Capacity is the pumping capacity of the Golden Gate Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 91% (97% for SCRWTP lime softening and 75% for NCRWTP Low Pressure Reverse Osmosis, each process at 12 MGD treatment capacity) and a reliability standard of 1 reliability well for every 5 production wells (i.e. 5/6 of the total number of wells operating). The current number of wells in the Golden Gate Wellfield is 36. Well 39 will be online by December 2020, Well 40 will be online by December 2021, and one well will be constructed in each fiscal year thereafter to counteract the loss of raw water production capacity due to age.
4. North RO Wellfield Reliable Capacity is the pumping capacity of the North RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of 1 reliability well for every 3 production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the North RO Wellfield is 25. Wells 1-4 are inactive due to elevated salinity (total dissolved solids, TDS) in the aquifer. Well 4 will be abandoned due to conflict with the Vanderbilt Beach Road Extension project. Jacobs Engineering Group was retained in August 2018 to perform a capacity study, sensitivity analysis, and design modifications for the RO treatment process. \$2.5M has been programmed into the CIP for those modifications to occur in FY 2024. Wellfield reliable capacity will increase accordingly in FY 2025, assuming Wells 1-3 are returned to serviceability. Additionally, wells 118 and 119 could be equipped and activated, but these projects were not funded in the CIP due to other priorities. So, there is no associated increase in wellfield capacity within the 10-year planning
5. South RO Wellfield Reliable Capacity is the pumping capacity of the South RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of 1 reliability well for every 3 production wells (i.e. 3/4 of the total number of wells operating). The current number of wells in the South RO Wellfield is 45. No additional wells are planned.
6. NESA Wellfield Reliable Capacity is the pumping capacity of the NESA Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 82% and a reliability standard of 1 reliability well for every 5 production wells (i.e. 5/6 of the total number of wells operating). 4 wells (3 existing and 1 supplemental) in the NESA Wellfield will be utilized for water supply to the initial phase of the interim WTP at the NEUF site beginning in FY 2022.
7. Northeast IE Wellfield Reliable Capacity is the pumping capacity of the future Northeast IE Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 82% and a reliability standard of 1 reliability well for every 5 production wells (i.e. 5/6 of the total number of wells operating). 2 wells will be constructed for the 1-MGD, second phase of the interim WTP at the NEUF site to be online in 2026, and 1 well will be constructed for the 1-MGD, third and final phase of the interim WTP to be online in 2030. The interim WTP will be replaced by the first phase of the permanent NERWTP, which will go online beyond the planning horizon of this AUIR.
8. Northeast RO Wellfield Reliable Capacity is the pumping capacity of the future Northeast RO Wellfield adjusted by an average plant efficiency (ratio of finished water to raw water) of 75% and a reliability standard of 1 reliability well for every 3 production wells (i.e. 3/4 of the total number of wells operating). The initial phase of the Northeast RO Wellfield will be constructed beyond the planning horizon of this AUIR.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SERVICE AREA

9/23/2020

9. Total Wellfield Reliable Capacity is the net reliable capacity of the six wellfields combined. The below table summarizes the total quantity of wells in each wellfield for each plan year:

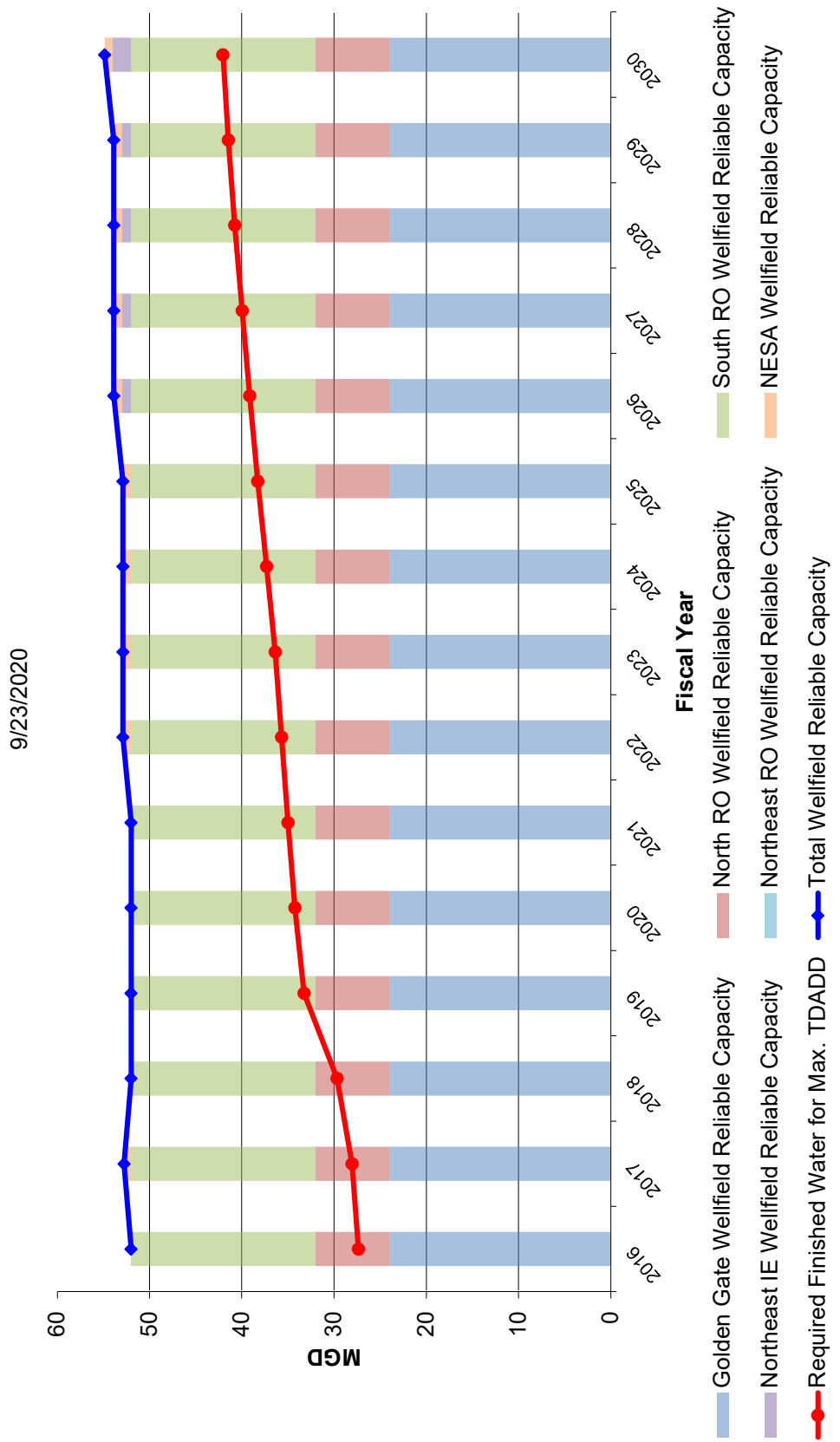
Fiscal Year	GG ^a Wells	NRO ^b Wells	SRO ^b Wells	NESA ^a Wells	NEIE ^a Wells	NERO ^b Wells	Total Wells	Add Fresh	Add Brackish
2021	36	25	45	0	0	0	106	6	
2022	38	25	45	4	0	0	112	1	
2023	39	25	45	4	0	0	113	1	
2024	40	25	45	4	0	0	114	1	3
2025	41	28	45	4	0	0	118	3	
2026	42	28	45	4	2	0	121	1	
2027	43	28	45	4	2	0	122	1	
2028	44	28	45	4	2	0	123	1	
2029	45	28	45	4	2	0	124	2	
2030	46	28	45	4	3	0	126		
Net Add'l	10	3	0	4	3	0	20	17	3

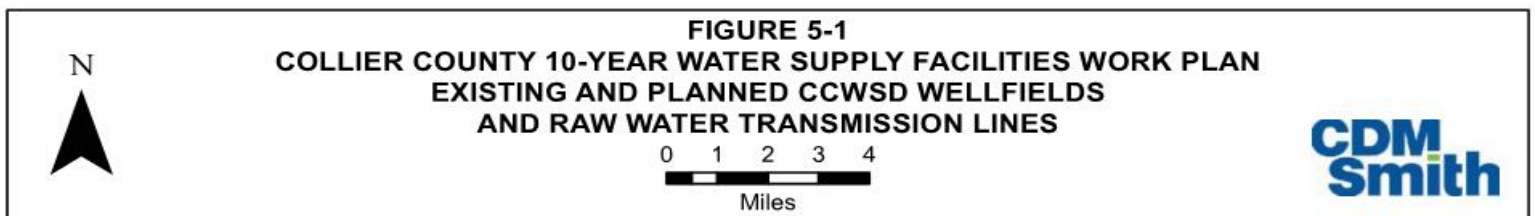
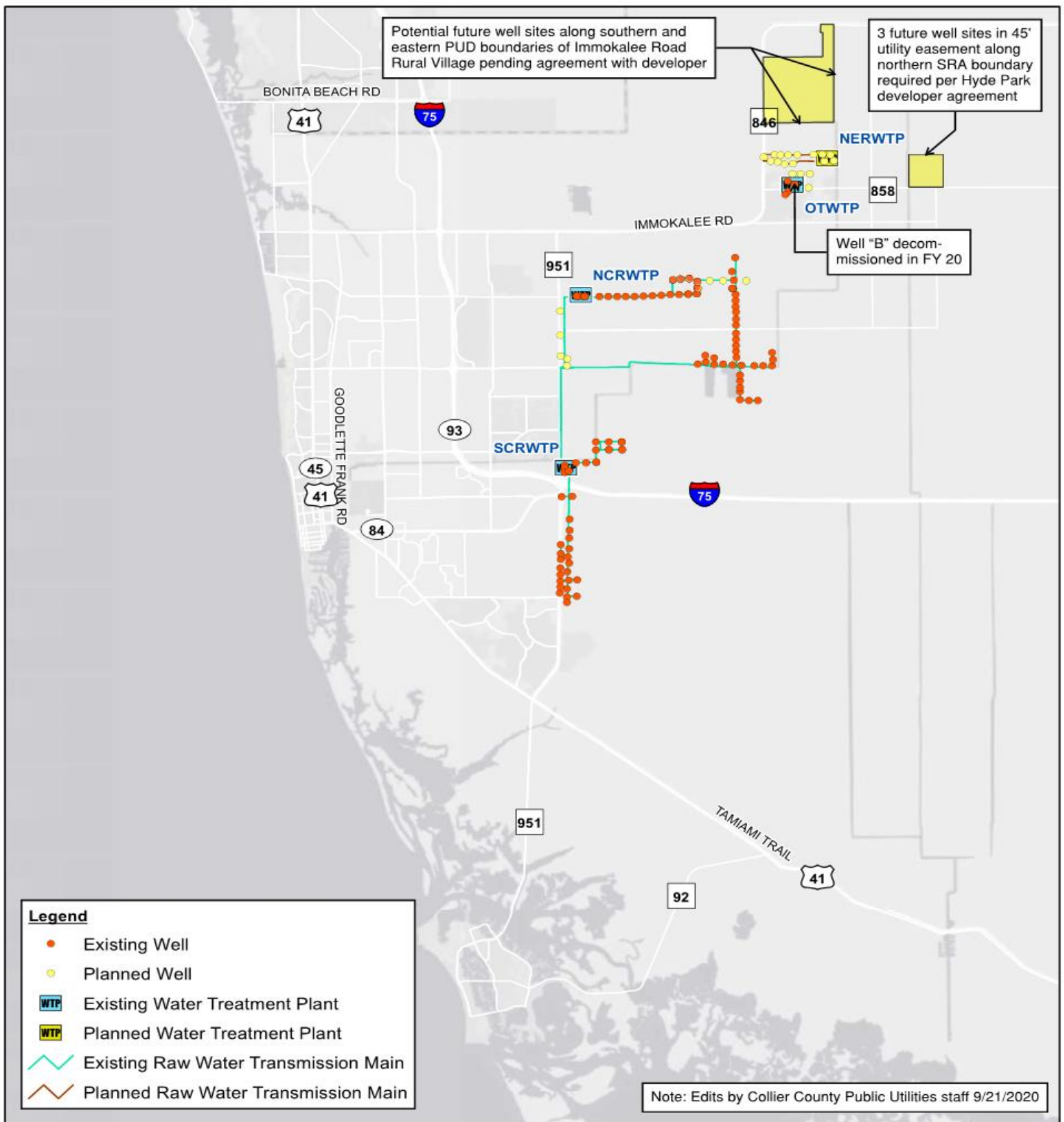
^aFresh

^bBrackish

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

POTABLE WATER SYSTEM - WELLFIELD FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR POTABLE WATER SERVICE AREA
LOS: 120 GPCD





Service Layer Credits: Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community - 9/27/2018

COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

REGIONAL POTABLE WATER SYSTEM

DATA: Current as of August 17, 2020

INTRODUCTION: The Checkbook uses the historical maximum 3-day average daily demand (TDADD) and monthly average daily demand (MADD) from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements.

		Million Gallons per Day (MGD)
		WATER
		REGIONAL
<u>CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL EXTREME EVENT)</u>		
1a. Existing Permitted Plant Capacity (MADD)		52.000
1b. Existing Operational Plant Capacity per 2019 AUIR		48.000
2a. 10-Year Maximum TDADD ^[1]		34.073
2b. 10-Year Maximum MADD ^[2]		31.981
3a. Current Available Diminishing Capacity (TDADD) (Line 1b - Line 2a)		13.927
3b. Current Available Diminishing Capacity (MADD) (Line 1b - Line 2b)		16.019

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

4a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 3a / Line 1b)	29%
4b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 3b / Line 1b)	33%

		Million Gallons per Day (MGD)
		WATER
		REGIONAL
<u>PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)</u>		
5. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List) ^[3]		11.074
6a. Projected Available Capacity (TDADD) (Line 3a - Line 5)		2.853
6b. Projected Available Capacity (MADD) (Line 3b - Line 5)		4.945

CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

7a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 6a / Line 1b)	6%
7b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 6b / Line 1b)	10%

		Million Gallons per Day (MGD)
		WATER
		REGIONAL
<u>FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS)</u>		
8a. Expansions Within Next 12 Months (MADD)		0.000
8b. Expansions Within Next 12-24 Months (MADD)		0.000
9a. Future Available Capacity (TDADD) (Line 6a + Line 8a + Line 8b)		2.853
9b. Future Available Capacity (MADD) (Line 6b + Line 8a + Line 8b)		4.945

FUTURE AVAILABILITY WITH EXPANSIONS

10a. SYSTEM AVAILABILITY BASED ON MAX. 3-DAY (Line 11a / Line 1b)	6%
10b. SYSTEM AVAILABILITY BASED ON MAX. MONTH (Line 11b / Line 1b)	10%

FOOTNOTES/QUALIFIERS:

- [1] Line 2a: Mo-Yr of Max. 3-Day Since August 2010 =>
- [2] Line 2b: Mo-Yr of Max. Month Since August 2010 =>
- [3] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by

Mar-19
Mar-20

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

PUD

POTABLE WATER SYSTEM PROJECTS							
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT FY 2025
	Debt Service		\$11,443,500	\$10,849,500	\$9,053,000	\$9,050,500	\$8,767,000
	Expansion Related Projects - Other		\$27,725,000	\$18,000,000	\$0	\$0	\$0
	Replacement & Rehabilitation Projects - Other		\$30,000,000	\$37,035,000	\$35,555,000	\$32,085,000	\$31,535,000
	Departmental Capital		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,000,000	\$3,704,000	\$3,556,000	\$3,209,000	\$3,154,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$72,908,500	\$70,343,500	\$48,934,000	\$45,129,500	\$44,257,000
							\$281,572,500

REVENUE KEY - REVENUE SOURCE				
	FY 2021	FY 2022	FY 2023	FY 2024
WIF - Water System Development Fees / Impact Fees	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000
B1 - Bonds/ Loans	\$27,725,000	\$18,000,000	\$0	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$740,000	\$755,000	\$770,000	\$785,000
REV - Rate Revenue	\$38,043,500	\$45,188,500	\$41,764,000	\$37,944,500
REVENUE TOTAL	\$72,908,500	\$70,343,500	\$48,934,000	\$45,129,500
				\$281,572,500

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:
 Expansion Related and Replacement & Rehabilitation Projects:
 FY 2021 is obtained from the 2021 Proposed Budget for R&R projects. Expansion projects require additional funding therefore not included in the budget.
 FY 2022 to FY 2025 are from the FY 2019 Impact Fee Rate Study.
Department Capital:
 FY 2021 is obtained from the 2021 Proposed Budget, split 50/50 between Water and Wastewater.
 FY 2022 to FY 2025 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).
Debt Service:
 All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
Reserve for Contingencies - Replacement and Rehabilitation Projects:
 As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY21 budget

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
FISCAL YEARS 2026-2030

PUD

POTABLE WATER SYSTEM PROJECTS									
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2026	\$ AMOUNT FY 2027	\$ AMOUNT FY 2028	\$ AMOUNT FY 2029	\$ AMOUNT FY 2030	\$ AMOUNT TOTAL	\$ AMOUNT TOTAL
	Debt Service		\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$7,310,000	\$37,453,000	
	Expansion Related Projects - Generally		\$5,833,000	\$0	\$14,667,000	\$37,400,000	\$0	\$57,900,000	
	Replacement & Rehabilitation Projects - Generally		\$35,635,000	\$36,955,000	\$36,585,000	\$36,985,000	\$36,985,000	\$183,145,000	
	Departmental Capital		\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,564,000	\$3,696,000	\$3,659,000	\$3,699,000	\$3,699,000	\$18,317,000	
	POTABLE WATER PROJECT TOTALS		\$53,839,000	\$48,655,500	\$62,708,500	\$86,985,000	\$48,878,000	\$301,066,000	

REVENUE KEY - REVENUE SOURCE					
	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
WIF - Water System Development Fees	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000
B1 - Bonds/ Loans	\$5,833,000	\$0	\$14,667,000	\$37,400,000	\$0
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account	\$817,000	\$833,000	\$850,000	\$867,000	\$884,000
REV - Rate Revenue	\$40,789,000	\$41,422,500	\$40,791,500	\$42,318,000	\$41,594,000
REVENUE TOTAL	\$53,839,000	\$48,655,500	\$62,708,500	\$86,985,000	\$48,878,000

NOTE: Figures provided for years six through ten are estimates of revenues necessary to support project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

COUNTY WATER - SEWER DISTRICT – WASTEWATER TREATMENT SYSTEMS

CONTENTS

- **2019 AUIR FACILITY SUMMARY - WASTEWATER TREATMENT SYSTEM FACILITIES**
- **INTRODUCTION**
- **LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA (TABLE, NOTES & CHART)**
- **LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA (TABLE, NOTES & CHART)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - CURRENT AND FUTURE WASTEWATER SERVICE AREAS MAP**
- **COLLIER COUNTY WATER-SEWER DISTRICT - WASTEWATER SERVICE JURISDICTION (MAP)**
- **FUTURE DEVELOPMENT IN NORTHEAST COLLIER COUNTY (MAP)**
- **COLLIER COUNTY WATER-SEWER DISTRICT - SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT (“CHECKBOOK”)**
- **EXHIBIT “A” - SCHEDULE OF CAPITAL IMPROVEMENTS**
- **APPENDIX “H” - FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY**

2020 AUIR FACILITY SUMMARY
WASTEWATER TREATMENT SYSTEM FACILITIES

Facility Type: Collier County Water-Sewer District – Wastewater Treatment System

Level of Service Standard: 80 gallons per capita day (gpcd) ⁽¹⁾

Capacity: South Service Area (SCWRF)

Permitted/Operational Treatment Capacity, FY21	16.00 MGD
Required Treatment Capacity, FY21	13.02 MGD
Permitted/Operational Treatment Capacity, FY30	16.00 MGD
Required Treatment Capacity, FY30	14.88 MGD

Capacity: North Service Area (NCWRF)

Permitted/Operational Treatment Capacity, FY21	26.35 MGD
Required Treatment Capacity, FY21	17.37 MGD
Permitted/Operational Treatment Capacity, FY30	28.35 MGD
Required Treatment Capacity, FY30	19.37 MGD

Capacity: Northeast Service Area (NEWRF)

Permitted/Operational Treatment Capacity, FY21	1.50 MGD
Required Treatment Capacity, FY21	0.00 MGD
Permitted/Operational Treatment Capacity, FY30	5.50 MGD
Required Treatment Capacity, FY30	0.83 MGD

Expenditures FY21-FY25

Debt Service	\$49,163,500	
Expansion Related Projects - Other	\$25,225,000	
Replacement & Rehabilitation Projects - Other	\$186,135,000	
Departmental Capital	\$3,851,000	
Reserve for Contingencies - Replacement & Rehabilitation Projects	<u>\$18,615,000</u>	⁽²⁾
	TOTAL	\$282,989,500

Existing Revenue Sources FY21-FY25

Wastewater System Development Fees / Impact Fees	\$33,000,000	
Bonds	\$30,275,000	
State Revolving Fund Loans	\$0	
Wastewater Capital Account - Transfers	\$3,851,000	
Rate Revenue	<u>\$215,863,500</u>	
	TOTAL	\$282,989,500

Surplus or (Deficit) for Five Year Program \$0

Recommended Action:

That the BCC find the Collier County Water-Sewer District Wastewater Treatment System in compliance with concurrency requirements found in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and that it approve the proposed 2020 CCWSD Wastewater Treatment Facilities AUIR and adopt the CIE Update for FY21-FY25.

Conclusion:

To ensure adequate treatment capacity for growth within the jurisdictional boundary of the Collier County Water-Sewer District, expansion related projects commenced in FY 2019 based on the Level of Service Standard, population projections and capacity as shown in the AUIR.

- (1) Per the most recent Board-approved rate study, which reduced the Equivalent Residential Connection (ERC) value from 250 to 200 GPD, and dividing by an average household size of 2.5 persons
- (2) The CIE is consistent with the Board-approved FY21 budget.
- (3) As per Florida Statutes Section 129.01(c), contingency reserves are up to 10% of expenses

Collier County Water-Sewer District Current and Future Wastewater Service Areas

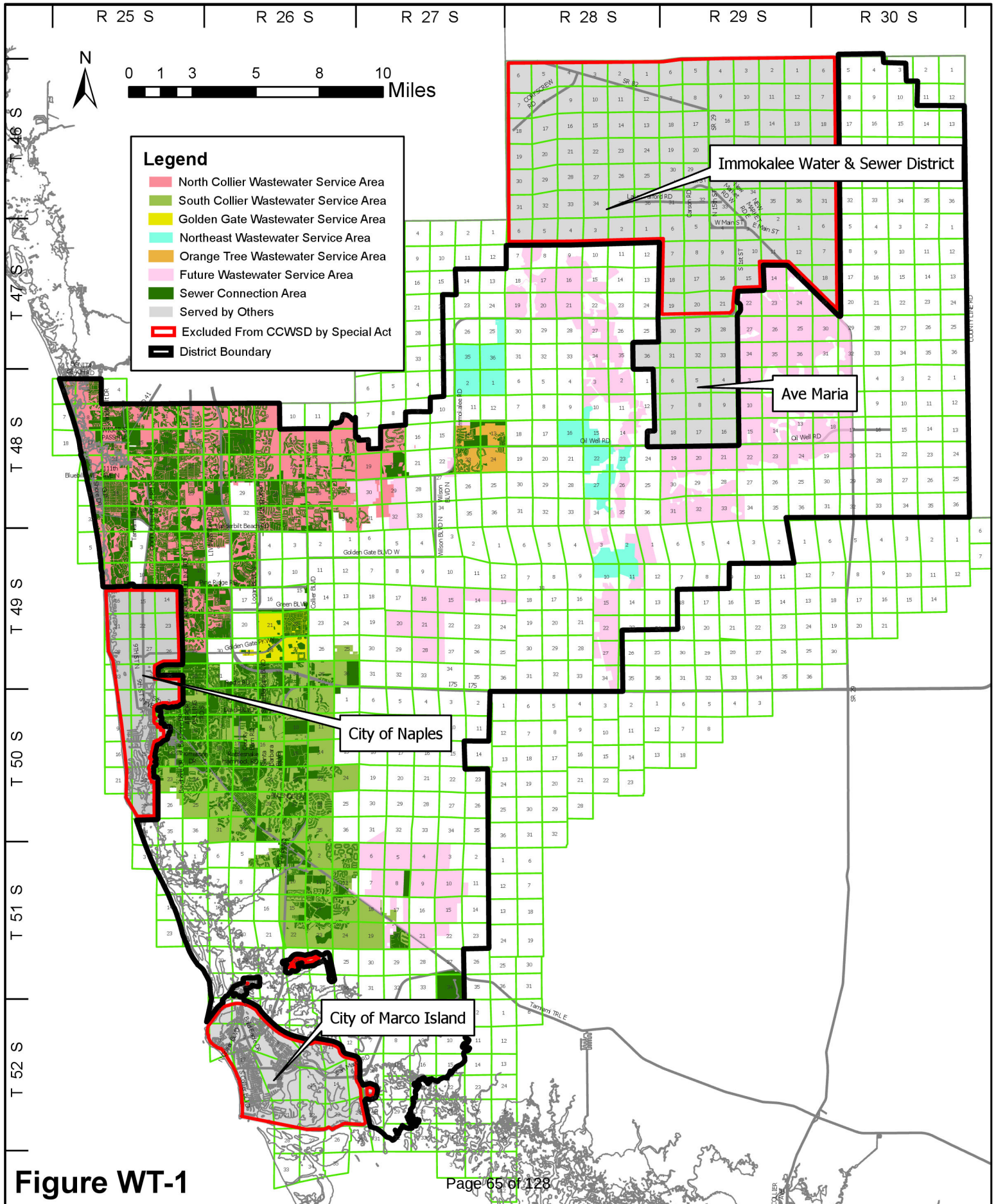


Figure WT-1

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

The Public Utilities Department's (PUD's) proposed 2020 CCWSD Wastewater System Treatment Facilities AUIR is based on permanent population estimates and projections for the CCWSD's wastewater service areas prepared by the Collier County Comprehensive Planning Section on June 9, 2020. Populations are based on using the Bureau of Economic and Business Research (BEBR) Medium Range growth rate through 2030.

The BEBR population numbers are adjusted using data from the Collier Interactive Growth Model, as produced and maintained by Metro Forecasting Models, LLC, including estimates for the Northeast and Golden Gate City Wastewater Service Areas, where growth rate has not been established or only a portion of the population is served.

Notes

- A. Concurrency is shown for 10 years for the current service area. This conforms with the State mandated CIE, concurrency regulations, and other Collier County Departments' AUIR submittals.
- B. On September 11, 2018, as Agenda Item 17.F, the Board adopted a resolution expanding the CCWSD's service area to coincide with the unincorporated area permitted by Chapter 2003-353, Laws of Florida. This "jurisdictional boundary," as shown on the map entitled, "Collier County Water-Sewer District Current and Future Wastewater Service Areas," encompasses the villages planned in the Northeast Service Area, including three villages in the Big Cypress Stewardship District (Rivergrass, Longwater, and Bellmar), the adjacent Hyde Park Village, and Immokalee Road Rural Village, all depicted on the preceding service area map.
- C. The Golden Gate wastewater service area will expand when needed to accommodate flow from current and future development in Activity Center #9 and the surrounding area north of I-75. A force main is being extended along Magnolia Pond Drive and Tropicana Boulevard, between the high school and the plant, in preparation for the future diversion, which will relieve capacity constraints at the South County Water Reclamation Facility (SCWRF) and in the force mains along Collier Boulevard and Davis Boulevard. Completion of the force main extension is anticipated in February 2021. To facilitate this service area expansion as well as anticipated redevelopment of the Golden Gate Parkway corridor and the Golden Gate Country Club (acquired by the County in July 2019) and the conversion of existing septic system users within the existing service area, the Golden Gate City WWTP will undergo a 2-4 MGD expansion to be completed in FY 2024.
- D. To serve the Orangetree and Orange Blossom Ranch PUDs, a new master pump station and associated force main improvements were completed in FY 2019 that allow the diversion of peak flows from the Northeast Sub-Regional (former Orangetree) Wastewater Treatment Plant to the North County Water Reclamation Facility (NCWRF). (The Orangetree PUD includes Waterways of Naples, Orangetree, Valencia Lakes, Neighborhood Shoppes at Orangetree, and Valencia Golf & Country Club as well as the Corkscrew Elementary/Middle and Palmetto Ridge High campuses.)
- E. The new regional water reclamation facility at the Northeast Utility Facilities (NEUF) site will support forecasted growth in the northeast region of the county. The NEUF is sited on 147 acres of County owned land at the east end of 39th Ave NE. 100% design documents were completed in 2010. The NEUF program has been reactivated, starting with updating the design criteria (FY 2018) and modifying the design plans to conform with current technologies (FY 2018-2019). Design-build construction of a 1.5 MGD interim WWTP and associated pipelines began in 2019, due to be complete in 2021. This will be followed by a 4 MGD initial phase of the Northeast Water Reclamation Facility (NEWRF) to be online by FY 2030, depending on developer commitments. The addition of a third water reclamation facility provides the needed reliability to serve the expanded CCWSD. This will reduce the high and wide-ranging flows to the existing two plants and will allow for rehabilitation and replacement.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
INTRODUCTION**

Project reactivation is in anticipation of the quantity of large developments going through different stages of the Growth Management Department review process. The need for readiness is also supported by the “Collier County Water-Sewer District System Utilization and Diminishing Capacity Report” (the “Checkbook”), which compares available treatment capacity to potential flow from undeveloped permitted uses in Board-approved planned unit developments (PUDs). The Checkbook uses the historical maximum 3-day average daily flow and monthly average daily flow from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements. Currently, the Checkbook reports that if all active Board-approved PUDs were built-out, the SCWRF would have a 23% deficit in and the NCWRF would have a 1% surplus of permitted treatment capacity.

F. The Public Utilities Department has commenced new, individual master plans for water, wastewater, and irrigation quality water under Contract # 18-7370, with completion anticipated in FY 2021. These plans will confirm level of service (LOS) standards and the timing of capacity needs. For this AUIR, LOS standards have been reduced in accordance with the most recent Board-approved rate study.

The 2020 Wastewater System AUIR is presented as a snapshot of concurrency conditions. The CCWSD is in compliance with concurrency requirements for FY 2021 and FY 2022, as required by FS Section 163, the Collier County Comprehensive Plan, and the Land Development Code.

Recommendation

The Public Utilities Department’s staff recommends that the Collier County Board of County Commissioners approve the 2020 CCWSD Wastewater System Treatment Facilities AUIR.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/23/2020

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. TDADF Diverted to NCWRF MGD	Required Treatment Capacity at SCWRF MGD	Percent of Permitted Capacity at Max. MADF MGD
2016	96,338	11.6		16.00	4.4		11.6	72%
2017	98,180	11.8		16.00	4.2		11.8	74%
2018	100,021	12.0		16.00	4.0		12.0	75%
2019	102,807	12.3		16.00	3.7		12.3	77%
2020	105,942	12.7		16.00	3.3		12.7	79%
2021	108,492	13.0		16.00	3.0		13.0	81%
2022	110,914	13.3		16.00	2.7		13.3	83%
2023	111,796	13.4		16.00	2.6		13.4	84%
2024	113,824	13.7		16.00	2.3		13.7	85%
2025	115,899	13.9		16.00	2.1		13.9	87%
2026	117,998	14.2		16.00	1.8		14.2	88%
2027	119,447	14.3		16.00	1.7		14.3	90%
2028	120,927	14.5		16.00	1.5		14.5	91%
2029	122,436	14.7		16.00	1.3		14.7	92%
2030	123,979	14.9		16.00	1.1		14.9	93%

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**

9/23/2020

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 9, 2020. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2030. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas. The portion taken from the south wastewater service area is 58 percent.

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 80 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 80 gpcd is the established Level of Service (LOS) Standard for the South Service Area, as adopted by the Board in the most recent rate study, and 1.5 is the TDADF peaking factor per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan adopted with the 2015 CCWSD Wastewater Treatment Systems AUIR, as approved by the Board of County Commissioners on November 10, 2015.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion, as follows:

Fiscal Year	New Treatment Capacity	Comments
NA	0 MGD	The SCWRF site is built-out given current treatment technology on-site.

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year with no deduction for the largest unit being out of service given that the SCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

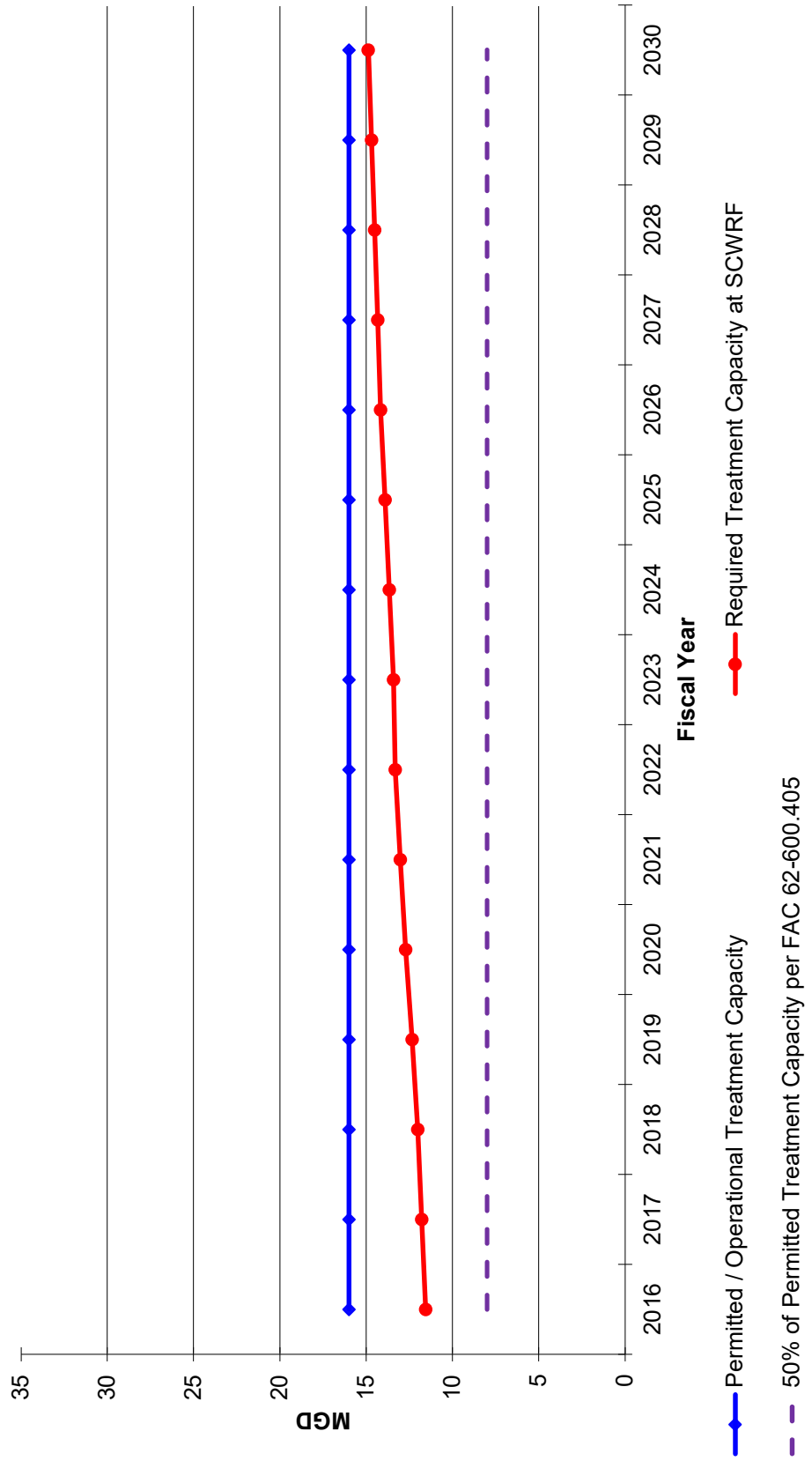
In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF). Any deficit in operational treatment capacity is countered by diverting flow to the NCWRF.
7. Max. TDADF Diverted to NCWRF is the max. TDADF that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at SCWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) less the Max. TDADF Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
SOUTH COUNTY WATER RECLAMATION FACILITY (SCWRF) SERVICE AREA**
LOS: 80 gpcd

9/23/2020



Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/23/2020

1	2	3	4	5	6	7	8	9
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Max. TDADF Diverted to NCWRF MGD	Required Treatment Capacity at NCWRF MGD	Percent of Permitted Capacity at Max. MADF MGD
2016	111,836	13.4		24.10	10.7		13.4	56%
2017	114,760	13.8		24.10	10.3		13.8	57%
2018	122,980	14.8		24.85	10.1		14.8	59%
2019	138,984	16.7		26.35	9.7		16.7	63%
2020	142,803	17.1		26.35	9.2		17.1	65%
2021	144,740	17.4		26.35	9.0		17.4	66%
2022	146,579	17.6		26.35	8.8		17.6	67%
2023	149,207	17.9		26.35	8.4		17.9	68%
2024	151,192	18.1	2	28.35	10.2		18.1	64%
2025	153,213	18.4		28.35	10.0		18.4	65%
2026	154,866	18.6		28.35	9.8		18.6	66%
2027	155,909	18.7		28.35	9.6		18.7	66%
2028	156,977	18.8		28.35	9.5		18.8	66%
2029	158,901	19.1		28.35	9.3		19.1	67%
2030	161,432	19.4		28.35	9.0		19.4	68%

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/23/2020

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Estimates and projections for the served area were prepared by the Collier County Comprehensive Planning Section on June 9, 2020. Populations are based on the Bureau of Economic and Business Research (BEBR) Medium Range growth rate applied through 2030. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The population projections include the Orangetree wastewater service area beginning in FY 2018 and the Golden Gate wastewater service area beginning in FY 2019 based on acquisition dates during FY 2017 and FY 2018 respectively. The Golden Gate wastewater service area (approximately 4 square miles) presently includes a population of approximately 12,404 residents in Golden Gate City. Based on the implementation plan outlined in the Board adopted "Technical Feasibility Study for Acquisition of FGUA Water and Wastewater Assets in Golden Gate," Phase 3 will increase the population served to 15,000 within 20 years.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas. The portion taken from the north wastewater service area is 42 percent.

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 80 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 80 gpcd is the established Level of Service (LOS) Standard for the South Service Area, as adopted by the Board in the most recent rate study, and 1.5 is the TDADF peaking factor per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan adopted with the 2015 CCWSD Wastewater Treatment Systems AUIR, as approved by the Board of County Commissioners on November 10, 2015.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2024	2 MGD	2-4 MGD expansion of the Golden Gate City WWTP to sustain sewer service to existing and future customers in the Golden Gate City and Activity Center #9 areas beginning in FY 2020 through FY 2024.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**

9/23/2020

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NCWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

Capacity increased in FY 2018 because Orangetree Utilities (OTU) was integrated into the CCWSD during FY 2017. Integrated assets include a 0.75 MGD (as currently sited) wastewater treatment plant that will continue operation.

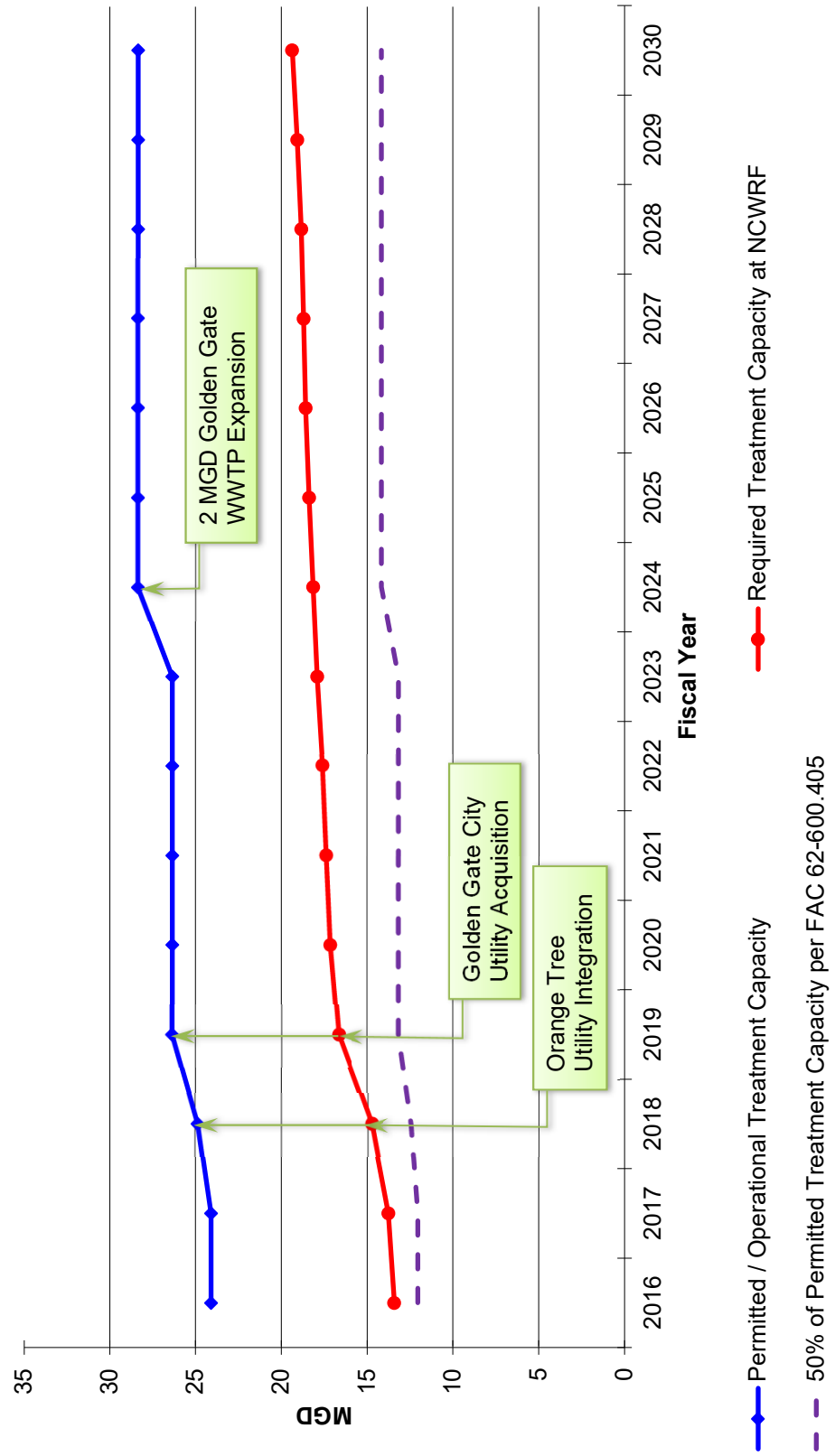
Acquisition of the Golden Gate City Utility from the Florida Governmental Utility Authority occurred on March 1, 2018. Acquired assets include a 1.5 MGD wastewater treatment plant that will continue operation.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF).
7. Max. TDADF Diverted to NCWRF is the max. TDADF that must be diverted to the NCWRF to avoid exceeding the permitted capacity of the SCWRF.
8. Required Treatment Capacity at NCWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) plus the Max. TDADF Diverted to NCWRF and is plotted in the chart on the next page.
9. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTH COUNTY WATER RECLAMATION FACILITY (NCWRF) SERVICE AREA**
LOS: 80 gpcd

9/23/2020



Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/23/2020

1	2	3	4	5	6	7	8
Fiscal Year	Permanent Population Served on Oct. 1	Max. 3-Day Average Daily Flow (TDADF) MGD	New Treatment Capacity MGD	Permitted / Operational Treatment Capacity MGD	Retained Operational Treatment Capacity MGD	Required Treatment Capacity at NEWRF MGD	Percent of Permitted Capacity at Max. MADF MGD
2016							
2017							
2018							
2019							
2020							
2021			1.5	1.50	1.5		
2022	626	0.1		1.50	1.4	0.1	5%
2023	1,147	0.1		1.50	1.4	0.1	9%
2024	1,565	0.2		1.50	1.3	0.2	13%
2025	1,982	0.2		1.50	1.3	0.2	16%
2026	2,851	0.3		1.50	1.2	0.3	23%
2027	3,871	0.5		1.50	1.0	0.5	31%
2028	4,893	0.6		1.50	0.9	0.6	39%
2029	5,913	0.7		1.50	0.8	0.7	47%
2030	6,933	0.8	4	5.50	4.7	0.8	15%

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/23/2020

Notes (References are to the column numbers on the previous page.)

1. Fiscal Year starts October 1 and ends September 30.
2. Permanent Population Served on Oct. 1. Projections for the future northeast wastewater service area were obtained from the Collier Interactive Growth Model (CIGM) for the zones comprising the four planned developments--Hyde Park Village (FKA Winchester Lakes, FKA Collier Lakes), Rivergrass Village (FKA Rural Lands West), Immokalee Road Rural Village (FKA SR 846 Land Trust), and Hogan Island Village. Permanent population is used in accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan.

The new villages in the northeast wastewater service area will draw housing demand away from the existing wastewater service areas. Therefore, their population projections are proportionally deducted from the projections for the north and south wastewater service areas (42 percent and 58 percent respectively).

3. Max. 3-Day Average Daily Flow (TDADF) is obtained by multiplying the Permanent Population Served on Oct. 1 by 80 gallons per capita per day (gpcd) and by a maximum 3-day daily flow (TDADF) peaking factor of 1.5 and is expressed in million gallons per day (MGD). 80 gpcd is the established Level of Service (LOS) Standard for the South Service Area, as adopted by the Board in the most recent rate study, and 1.5 is the TDADF peaking factor per the 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan adopted with the 2015 CCWSD Wastewater Treatment Systems AUIR, as approved by the Board of County Commissioners on November 10, 2015.
4. New Treatment Capacity is the additional treatment capacity in million gallons per day (MGD) placed into service by the start of the fiscal year through plant construction/expansion. Timing and capacity are tentative and may be adjusted with updates in development forecasts and adoption of developer agreements:

Fiscal Year	New Treatment Capacity	Comments and Cost Estimates
2021	1.5 MGD	\$28M interim WWTP, storage tanks and associated pipelines at the NEUF site to facilitate development in the northeast region of the county, outside the Orangetree and Orange Blossom Ranch PUDs, beginning in FY 2019 through FY 2021
2030	4 MGD	\$108M Northeast Water Reclamation Facility (NEWRF) at the Northeast Utility Facilities (NEUF) site to sustain sewer service to customers in the new villages proposed in the Northeast Wastewater Service Area, beginning in FY 2026, to be online by FY 2030
2031	-1.5 MGD	The interim WWTP at the NEUF site will be decommissioned once the 4 MGD NEWRF is operational. Equipment taken offline will be repurposed or sold.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

**WASTEWATER SYSTEM - TREATMENT FACILITIES
LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA**

9/23/2020

5. Permitted / Operational Treatment Capacity is the permitted treatment capacity at the beginning of the fiscal year in million gallons per day (MGD) with no deduction for the largest unit being out of service given that the NEWRF is designed for Class I reliability. Permitted / Operational Treatment Capacity is plotted in the chart on the next page.

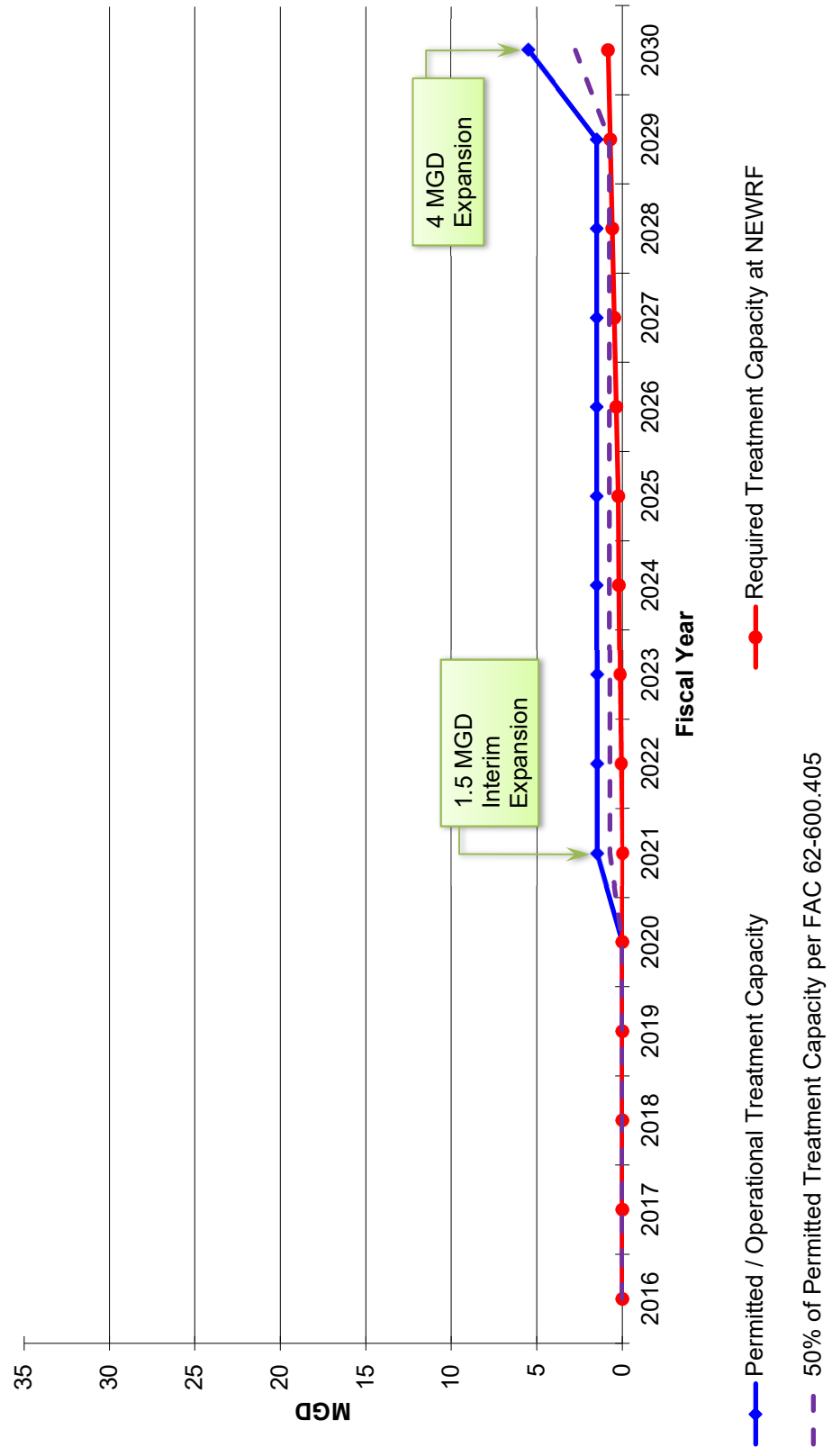
In accordance with the Board adopted 2014 Water, Wastewater, Irrigation Quality Water and Bulk Potable Water Master/CIP Plan, Total Operational Treatment Capacity must be sufficient for the max. TDADF.

6. Retained Operational Treatment Capacity is the Permitted / Operational Treatment Capacity minus the Max. 3-Day Average Daily Flow (TDADF).
7. Required Treatment Capacity at NEWRF is equal to the Max. 3-Day Average Daily Flow (TDADF) and is plotted in the chart on the next page.
8. Percent of Permitted Capacity at Max. MADF is the maximum Monthly Average Daily Flow (MADF) as a percentage of Permitted / Operational Treatment Capacity. Per FAC 62-600.405, capacity analysis reporting to the Department of Environmental Protection (DEP) is triggered once MADF exceeds 50% of permitted capacity, as plotted in the chart on the next page.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

LEVEL OF SERVICE (LOS) STANDARD ASSESSMENT FOR
NORTHEAST WATER RECLAMATION FACILITY (NEWRF) SERVICE AREA
LOS: 80 gpcd

9/23/2020



Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

9/23/2020

The following four areas will have future constrained wastewater conveyance capacity based on current growth patterns. The plan to address each constraint is discussed below and shown on the following "Wastewater Collection/Transmission System Constraints Map" map.

City Gate PUD/Activity Center #9

Background:

The original design of wastewater transmission facilities along Davis Boulevard did not anticipate service to the areas north of I-75. Proposed growth in Activity Center #9 and the surrounding area may require additional conveyance and treatment capacity.

Status:

A new force main along Magnolia Pond Drive to the Golden Gate City Wastewater Treatment Plant will provide additional transmission capacity. The project is under construction and planned to be completed in February 2021.

Future Actions:

Expand the Golden Gate City Wastewater Treatment Plant.

Immokalee Road & Collier Blvd

Background:

To make full use of the capacity of the North County Water Reclamation Facility (NCWRF) for wastewater service to the growing northeast region of Collier County, the 2014 Master Plan/CIP Plan recommended construction of a 24" force main from a new master pump station (MPS 167) at Heritage Bay west along Immokalee Road, then south along Logan Boulevard, then east a short distance along Vanderbilt Beach Road to MPS 104. Once completed, these improvements will relieve the burden on the 12" force main along Immokalee Road, which has become constrained due to extensive development of the corridor.

MPS 167, located at the south end of Heritage Bay Commons Tract G, serves as a wastewater booster pump station for the Heritage Bay PUD and current and future developments along Collier Blvd and east of Collier Blvd along Immokalee Road. MPS 167 currently routes wastewater to the NCWRF but will ultimately provide the flexibility to route wastewater to the future NEWRF.

Status:

Construction of the Immokalee Road/Logan Boulevard force main is underway and is planned to be complete in June 2021.

Future Actions:

None required.

Collier County Government
Public Utilities Department
2020 ANNUAL UPDATE AND INVENTORY REPORT (AUIR)

WASTEWATER COLLECTION/TRANSMISSION SYSTEM CONSTRAINTS

9/23/2020

Western Interconnect

Background:

A western interconnect is needed to manage growth in the south wastewater service area and to facilitate maintenance of existing force mains. A series of force main extensions and improvements to PS 309.09 are needed to move wastewater flows from the south wastewater service area to the north wastewater service area, where there is available treatment capacity. The force main along Livingston Road is divided into ten phases generally extending from Radio Road to Immokalee Road.

Status:

Five phases were previously constructed ahead of development activity. Phase 2 was recently completed in August 2020. Phases 6B and 6C are planned for construction in FY 2021, and Phases 7 and 8 as well as PS 309.09 are planned for FY 2021. The final Phase 9 provides full connectivity and is planned for FY 2022.

Future Actions:

Construct the remaining three phases in FY 2020-2022 including PS 309.09.

New Master Pump Station 101.12 (Naples Park)

Background:

MPS 101.00 currently serves areas north and south of 111th Avenue N. The new MPS 101.12 will allow the area to be divided such that MPS 101.00 will serve north of 111th Avenue N., and MPS 101.12 will serve the area south, which includes Naples Park. A new gravity main and force main connected to MPS 101.12 will allow greater wastewater flows to be conveyed from the constrained Naples Park area.

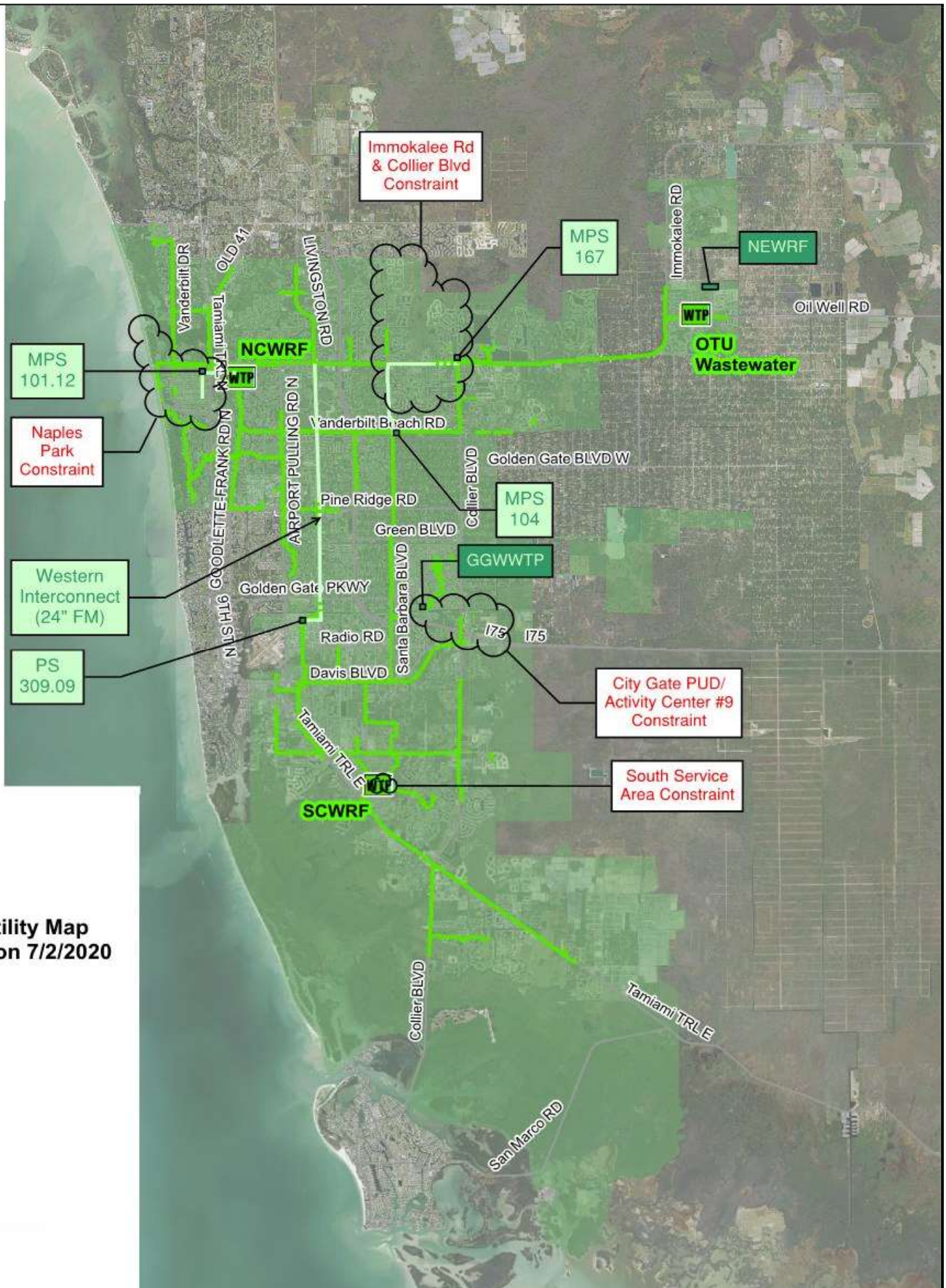
Status:

As part of the Basin 101 Program, the needed infrastructure has been designed. The project was put on hold while funds were loaned for the Hurricane Irma debris mission.

Future Action:

Construct MPS 101.12 and associated piping in FY 2021-2022, at an estimated cost of \$15M.

Wastewater Collection/Transmission System Constraints



Public Utility Map
Published on 7/2/2020

COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

REGIONAL WASTEWATER SYSTEM

DATA: Current as of August 17, 2020

INTRODUCTION: The Checkbook uses the historical maximum 3-day average daily flow (TDADF) and monthly average daily flow (MADF) from the last 10 years as baseline scenarios. Unbuilt future commitments are then multiplied by standard peaking factors and added to the baselines to arrive at worst-case scenarios for future operational requirements.

CURRENT AVAILABLE CAPACITY (BASED ON HISTORICAL EXTREME EVENT)

1. Existing Permitted/Operational Plant Capacity per 2019 AUIR (TMADF)
- 2a. 10-Year Maximum TDADF ^[2]
- 2b. 10-Year Maximum MADF ^[3]
- 3a. Peak Flow Diversion (TDADF) ^[5]
- 3b. Peak Flow Diversion (MADF) ^[5]
- 4a. Current Available Diminishing Capacity (TDADF) (Line 1 - Line 2a - Line 3a)
- 4b. Current Available Diminishing Capacity (MADF) (Line 1 - Line 2b - Line 3b)

Million Gallons per Day (MGD)

WASTEWATER ^[1]	
NORTH	SOUTH
24.100	16.000
16.734	18.985
12.105	11.000
3.500	(3.500)
0.000	0.000
3.866	0.515
11.995	5.001

CURRENT AVAILABILITY WITHOUT FUTURE COMMITMENTS

- 5a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY** (Line 4a / Line 1)
- 5b. **SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH)** (Line 4b / Line 1)

16%	3%
50%	31%

PROJECTED AVAILABLE CAPACITY (WITH FUTURE COMMITMENTS)

6. Total BCC-approved Active PUD commitments (Unbuilt per GMD PUD Master List) ^[4]
- 7a. Peak Flow Diversion (TDADF) ^[5]
- 7b. Peak Flow Diversion (MADF) ^[5]
- 8a. Projected Available Capacity (TDADF) (Line 1 - Line 2a - Line 6 - Line 7a)
- 8b. Projected Available Capacity (MADF) (Line 1 - Line 2b - Line 6 - Line 7b)

Million Gallons per Day (MGD)

WASTEWATER ^[1]	
NORTH	SOUTH
3.012	4.264
4.095	(3.500)
0.337	0.000
0.260	(3.750)
8.646	0.736

CURRENT AVAILABILITY WITH FUTURE COMMITMENTS

- 9a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY** (Line 8a / Line 1)
- 9b. **SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH)** (Line 8b / Line 1)

1%	-23%
36%	5%

FUTURE AVAILABLE CAPACITY (WITH EXPANSIONS)

- 10a. Expansions Within Next 12 Months (MADF)
- 10b. Expansions Within Next 12-24 Months (MADF)
- 11a. Future Available Capacity (TDADF) (Line 8a + Line 10a + Line 10b)
- 11b. Future Available Capacity (MADF) (Line 8b + Line 10a + Line 10b)

Million Gallons per Day (MGD)

WASTEWATER ^[1]	
NORTH	SOUTH
0.000	0.000
0.000	0.000
0.260	(3.750)
8.646	0.736

FUTURE AVAILABILITY WITH EXPANSIONS

- 12a. **SYSTEM AVAILABILITY BASED ON MAX. 3-DAY** (Line 11a / Line 1)
- 12b. **SYSTEM AVAILABILITY BASED ON PERMIT (MAX. MONTH)** (Line 11b / Line 1)

1%	-23%
36%	5%

COLLIER COUNTY WATER - SEWER DISTRICT

SYSTEM UTILIZATION AND DIMINISHING CAPACITY REPORT ("CHECKBOOK")

REGIONAL WASTEWATER SYSTEM

DATA: Current as of August 17, 2020

FOOTNOTES/QUALIFIERS:

[1] Wastewater North and South shown separately because of the finite capacity of the interconnect.

[2] Line 2a: Mo-Yr of Max. 3-Day Since August 2010 =>

Aug-17

Sep-20

[3] Line 2b: Mo-Yr of Max. Month Since August 2010 =>

Feb-19

Sep-20

[4] Capacity requested by outstanding active BCC-approved PUD units, as documented in the most current GMD PUD Master List. Built-out, closed-out, inactive, and discontinued PUD's are not included in line 5; only active PUD's are included. The outstanding PUD units are assumed to be developed before PUD closeout. Level of service for future commitments is defined by the latest rate study.

[5] Wastewater flows can be diverted from the south service area to the NCWRF via the East and West Interconnects and associated pump station improvements. The East Interconnect is an existing 20" force main along Santa Barbara Blvd that can divert flows from MPSs 312.00 and 313.00 to MPS 104.00, which ultimately discharges to the NCWRF. The West Interconnect is a proposed 24" force main along Livingston Road that will divert flows from MPSs 305.00, 309.00, and 310.00 ultimately to the NCWRF. The West Interconnect is being constructed in phases and will become operational in FY 2022. Peak flows can be diverted to MPS 167.00 (Heritage Bay) by the 0.75 MGD OT master pump station and force mains along Oil Well Road and Immokalee Road. MPS 167.00 will have the capability of diverting wastewater flows from the north and/or south service areas to the future NEWRF. These interconnects provide the operational flexibility needed to manage the peak flows forecasted by the Checkbook.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2020-2024

PUD

WASTEWATER TREATMENT SYSTEM PROJECTS							
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2021	\$ AMOUNT FY 2022	\$ AMOUNT FY 2023	\$ AMOUNT FY 2024	\$ AMOUNT FY 2025
	Debt Service		\$11,443,500	\$10,849,500	\$9,053,000	\$9,050,500	\$8,767,000
	Expansion Related Projects - Other		\$10,225,000	\$10,000,000	\$0	\$5,000,000	\$0
	Replacement & Rehabilitation Projects - Other		\$36,300,000	\$45,940,000	\$38,035,000	\$32,985,000	\$32,875,000
	Departmental Capital		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,630,000	\$4,594,000	\$3,804,000	\$3,299,000	\$3,288,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$62,338,500	\$72,138,500	\$51,662,000	\$51,119,500	\$45,731,000
							\$282,989,500

REVENUE KEY - REVENUE SOURCE				
	FY 2021	FY 2022	FY 2023	FY 2024
SIF - Wastewater System Development Fees / Impact Fees	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000
B1 - Bonds/ Loans	\$10,225,000	\$15,050,000	\$0	\$5,000,000
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$740,000	\$755,000	\$770,000	\$785,000
REV - Rate Revenue	\$44,773,500	\$49,733,500	\$44,292,000	\$38,734,500
REVENUE TOTAL	\$62,338,500	\$72,138,500	\$51,662,000	\$51,119,500
				\$282,989,500

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:

Expansion Related and Replacement & Rehabilitation Projects:
 FY 2021 is obtained from the 2021 Proposed Budget for R&R projects. Expansion projects require additional funding and therefore not included in the budget.
 FY 2022 to FY 2025 are estimated project costs.

Department Capital:

FY 2021 is obtained from the 2021 Proposed Budget, split 50/50 between Water and Wastewater.
 FY 2022 to FY 2025 are 2% increases over each fiscal year (pursuant to CPI adjustments per Board policy).

Debt Service:

All years are obtained from the current Collier County Water-Sewer District Financial Statements and Other Reports including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.

Reserve for Contingencies - Replacement and Rehabilitation Projects:

As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

CIE consistent with Board-approved FY21 budget

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2025 - 2029

PUD

WASTEWATER PROJECTS								
CIE #	PROJECT	CONSTRUCTION SCHEDULE NOTES	\$ AMOUNT FY 2026	\$ AMOUNT FY 2027	\$ AMOUNT FY 2028	\$ AMOUNT FY 2029	\$ AMOUNT FY 2030	\$ AMOUNT TOTAL
	Debt Service		\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$7,310,000	\$37,453,000
	Expansion Related Projects - Other		\$1,333,000	\$103,000,000	\$14,667,000	\$0	\$0	\$119,000,000
	Replacement & Rehabilitation Projects - Other		\$33,897,000	\$33,240,000	\$40,203,000	\$32,870,000	\$33,370,000	\$173,580,000
	Departmental Capital		\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,390,000	\$3,324,000	\$4,020,000	\$3,287,000	\$3,337,000	\$17,358,000
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$47,427,000	\$147,568,500	\$66,687,500	\$45,058,000	\$44,901,000	\$351,642,000

REVENUE KEY - REVENUE SOURCE						
	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL
SJF - Wastewater System Development Fees / Impact Fees	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
B1 - Bonds/ Loans	\$2,000,000	\$103,000,000	\$22,000,000	\$0	\$0	\$127,000,000
SRF - State Revolving Fund Loans	\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers	\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000
REV - Rate Revenue	\$38,010,000	\$37,135,500	\$37,237,500	\$37,591,000	\$37,417,000	\$187,391,000
REVENUE TOTAL	\$47,427,000	\$147,568,500	\$66,687,500	\$45,058,000	\$44,901,000	\$351,642,000

NOTE: Figures provided for years six through ten are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

SOLID WASTE DISPOSAL FACILITIES

CONTENTS

- **SOLID WASTE DISPOSAL FACILITIES – 2019 SUMMARY**
- **APPENDIX “A” - COLLIER COUNTY PEAK SEASON
POPULATION ESTIMATES AND PROJECTIONS**
- **APPENDIX “B” - TEN YEAR OF PERMITTED LANDFILL
CAPACITY**
- **APPENDIX “C” - TWO YEARS OF LINED CELL CAPACITY**

Solid Waste Disposal Facilities

Annual Update and Inventory Report

July 20, 2020

CONTENTS

Solid Waste Disposal Facilities 2020 AUIR Report

APPENDIX A: Municipal Service Benefit Map

APPENDIX B: Schedule of Lined Landfill Capacity

APPENDIX C: Collier County Landfill Permitted Disposal Capacity

Solid Waste Disposal Facilities 2020 AUIR Report

Facility Type: Solid Waste Disposal Facilities

Level of Service (LOS) Standard¹:

Two (2) years of constructed lined cell capacity.
Ten (10) years of permittable capacity.

Collier County Landfill (CCLF) Capacity²:

Two (2) years of constructed lined cell capacity requirement:	525,468 Tons
Available lined capacity:	1,369,406 Tons
Reference Appendix B for Schedule of lined landfill capacity	
Ten (10) years of permittable capacity requirement:	2,812,413 Tons
Total Remaining permitted capacity:	13,289,577 Tons
Estimated date of filled capacity of Collier County Landfill:	40 Years or 2060

Currently, only waste generated in Municipal Solid Waste Service District I (See Appendix A) is landfilled at Collier County Landfill (CCLF). For the purpose of these projections it is assumed the County will renew, amend or enter into a new agreement, as necessary, and continue to transfer waste generated in Municipal Service District II to Okeechobee Landfill. Appendix C displays calculations for landfill capacity.

Contract Capacity:

The Solid and Hazardous Waste Management Division maintains a Disposal Capacity Agreement with Okeechobee Landfill (June 12, 2001) for 930,000 tons of contracted disposal capacity at the Okeechobee Landfill (located in Okeechobee County). Currently waste generated in Municipal Solid Waste Service District II (See Appendix A) is diverted to this disposal site.

Remaining Contracted Capacity	645,411 Tons
Estimated Remaining Capacity ³	21 Years or 2041
Okeechobee Landfill Life ⁴	29 Years or 2049

¹Capital Improvement Element as of Resolution 2018-208 adopted November 13, 2018

²Assumptions for calculations: District I projected per capita disposal rate derived from historical data as applied to projected population growth (from AUIR Appendix). Reference Appendix C for calculation methodology.

³Based on historical data trends and population growth.

⁴Source: Report submitted to FDEP, dated March 31, 2020, "Annual Estimate of Remaining Life" by CEC for Okeechobee Landfill.

Landfill Airspace Preservation:

Landfill Operating Agreement (LOA)

The Collier County Solid & Hazardous Waste Management Division entered into a life of site agreement that requires the Landfill is financed and operated under a design/build/operate Landfill Operating Agreement (LOA) with Waste Management Inc. of Florida (WMIF). The LOA also includes the management of the County's transfer station, located in Immokalee.

In accordance with the LOA, all landfill operating expenses incurred, including cell construction, permitting and closure care are funded by WMIF. LOA expenses are paid from revenue generated from tipping fees.

Under the LOA:

- No debt is carried by Collier County
- Design/build/operate provisions ensure proper cell capacity
- The Contractor maintains environmental liability
- Allows for 900 tons per day of waste transfer from CCLF to Okeechobee Landfill

Disposal Capacity Agreement

Waste collected in District II is transferred from the Immokalee transfer station to Okeechobee Landfill. This agreement allows for 930,000 tons of capacity of which approximately 645,411 tons remain. Assuming no waste is diverted from District I, the remaining capacity is estimated to last through Fiscal Year 2041.

- The LOA includes a 900 tons per day (TPD) allowance for the transportation and disposal of waste from the Collier County Landfill to Okeechobee Landfill (Amendment #2; June 12, 2001).
- Collier County maintains a separate Disposal Capacity Agreement with Okeechobee Landfill (June 12, 2001) for 930,000 tons of contracted disposal capacity at the Okeechobee Landfill allocated for waste transferred from the Immokalee Transfer Station (ITS).

Integrated Solid Waste Management Strategy

The Solid and Hazardous Waste Management Division continues to meet the current disposal needs of Collier County; and plan for the long term solid and hazardous waste needs of Collier County with initiatives from the Integrated Solid Waste Management Strategy (approved by the BCC, 2006), including, but not limited to the guiding principle to preserve airspace through use of the following components:

- Source Reduction
- Material Reuse and Recycling
- Diversion
- Optimizing Existing Assets and Resources

Recommended Action:

The Public Utilities Department's staff recommends that the Collier County Board of County Commissioners find the 2020 AUIR in compliance with concurrency requirements in FS Section 163, the Collier County Comprehensive Plan and the Land Development Code; and continue to support the Division's Integrated Solid Waste Strategy initiatives to increase recycling to reach the 75% State goal, to divert recyclables and hazardous waste from the Collier County Landfill, and obtain appropriate means and methods of the various waste streams to support the needs of Collier County.

Continue to research alternative methods of disposal, waste reduction, and recycling. The Solid and Hazardous Waste Management Division reached a milestone, achieving a recycling rate of 68% in 2020, as reported by FDEP. The Household Hazardous Waste Program collected approximately two (2) million pounds of household hazardous waste Fiscal Year 2019. The Recycling Drop-off Centers served over 70,000 customers of Collier County in Fiscal Year 2019.

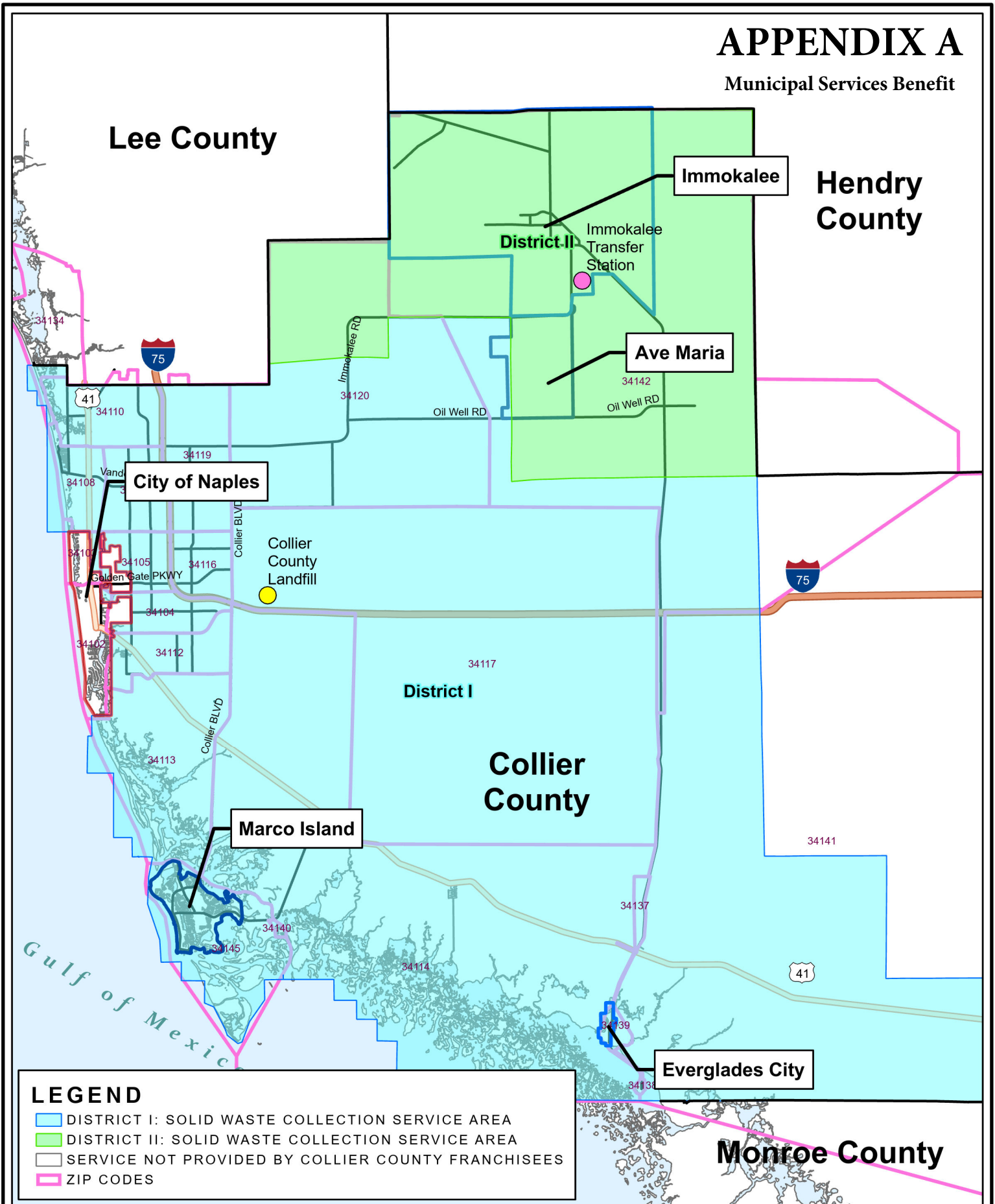
Execute LOA contract language to transfer up to 900 tons per day.

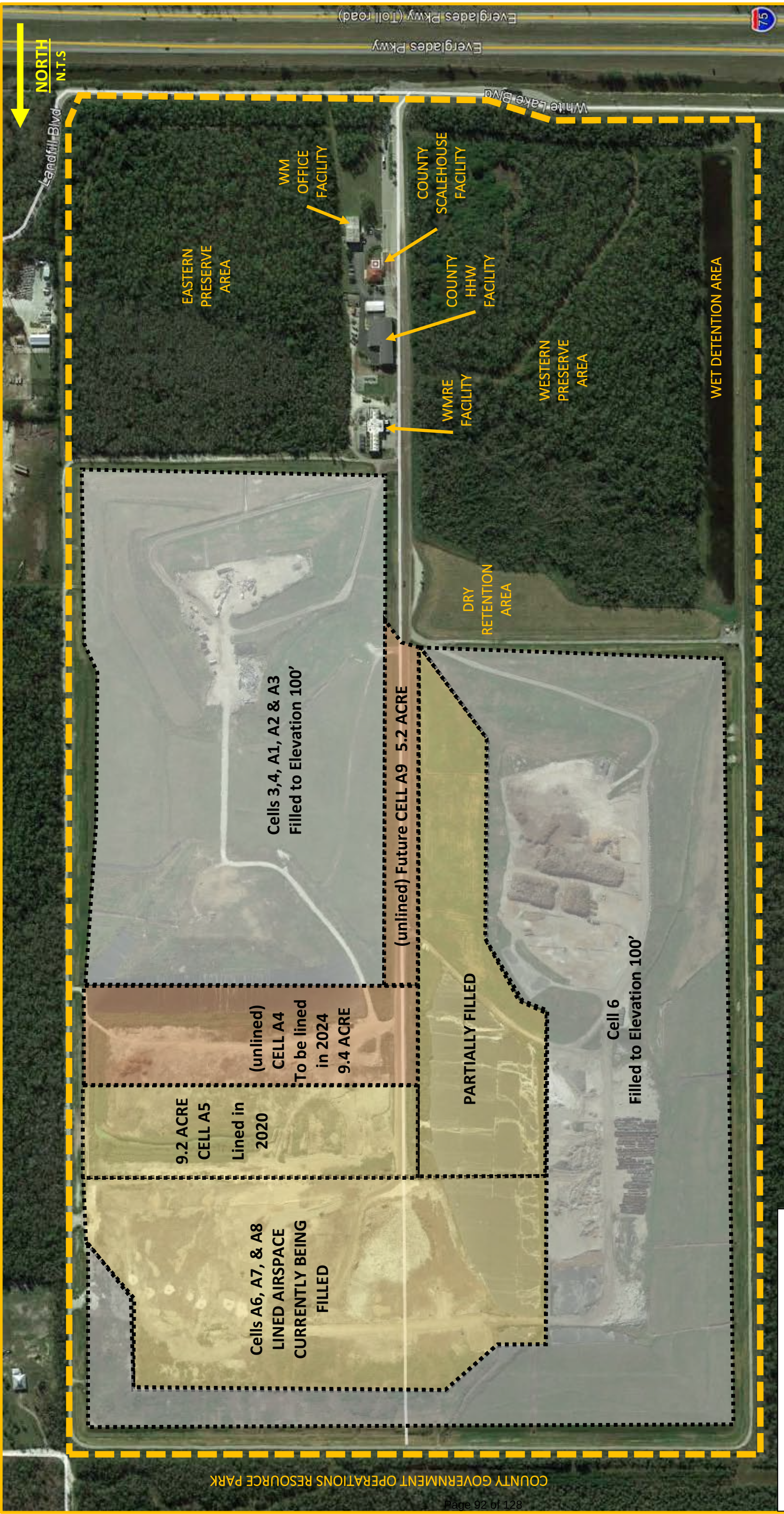
Analyze waste quantity and fiscal impact for waste generated within the Districts for tonnage delivered to the Immokalee Transfer Station versus Collier County Landfill.

The Solid and Hazardous Waste Management Division continue to follow and update the Board approved Integrated and Solid Waste Management Strategy to comply with the Growth Management Plan and work to derive and implement long term sustainable disposal goals.

APPENDIX A

Municipal Services Benefit





LANDFILL PROPERTY FOOTPRINT: 311 ACRES PERMITTED FOR LANDFILLING: 184 ACRES	305 AC. PROPERTY	
	FILLED TO ELEVATION 100': 132.7 ACRES	CELLS 3, 4, 6, A1, A2, A3

CAPACITY BALANCE TO REACH ELEVATION 100' (TONS)		
LINED LANDFILLING:	36.6 ACRES	CELLS A6, A7, A8, A5 1,560,587
UNLINED:	14.6 ACRES	CELLS A4 & A9 1,766,600
All Cells to be lined at elevation 100' to fill to elevation 200'. This equates to approximately 13.3 million cubic yards (or 9.9 million tons).		

APPENDIX B: SCHEDULE OF LINED LANDFILL CAPACITY

COLLIER COUNTY LANDFILL (CCLF)

Appendix C: Collier County Landfill Permitted Disposal Capacity
Level of Service Standard: Landfill Capacity at Projected Tons per Capita Disposal Rate

1	2	3	4	5	6	7	8	9	10
Fiscal Year	Peak Population	Estimated Tons Per Capita Disposal Rate	Estimated Annual Tons Disposed	Collier County Landfill Permitted Capacity Balance (cy)	Estimated Average Compaction Rate (tons/cy)	Collier County Landfill Capacity Balance (tons)	Next Ten Years Landfill Capacity Requirement (tons)	Two Year Landfill Capacity Requirement (tons)	Available Lined Landfill Capacity (tons)
2011	392,180	0.52	202,226	N/A	N/A	8,655,571	2,302,083	412,496	N/A
2012*	398,107	0.51	203,185	N/A	N/A	18,566,434	2,353,717	427,249	N/A
2013	402,268	0.52	209,311	N/A	N/A	18,524,000	2,403,242	442,416	N/A
2014	408,351	0.53	217,938	N/A	N/A	18,186,000	2,448,271	458,126	N/A
2015	416,590	0.54	224,479	N/A	N/A	17,961,521	2,490,536	481,249	N/A
2016	424,603	0.55	233,647	N/A	N/A	18,408,274	2,804,790	508,018	N/A
2017	433,539	0.57	247,602	N/A	N/A	18,970,672	2,864,860	502,994	N/A
2018	442,240	0.59	260,416	18,386,339	N/A	18,710,256	2,916,440	498,476	N/A
2019	405,035	0.60	242,578	18,062,901	x 0.75	= 13,547,175	2,675,006	516,197	1,613,984
2020	414,569	0.62	255,897	17,719,437	x 0.75	= 13,289,577	2,812,413	525,468	1,369,406
2021	421,907	0.62	260,300	17,372,370	x 0.75	= 13,029,278	2,855,866	535,301	1,109,106
2022	429,378	0.62	265,168	17,018,812	x 0.75	= 12,764,109	2,897,710	545,324	843,938
2023	436,986	0.62	270,132	16,658,636	x 0.75	= 12,493,977	2,937,887	555,086	573,805
2024	444,731	0.62	275,192	16,291,713	x 0.75	= 12,218,785	2,976,335	563,972	Cell A4 scheduled for liner construction
2025	451,703	0.62	279,893	15,918,522	x 0.75	= 11,938,891	3,013,168	572,263	
2026	457,875	0.62	284,078	15,539,751	x 0.75	= 11,654,813	3,048,570	580,538	
2027	464,133	0.62	288,185	15,155,504	x 0.75	= 11,366,628	3,082,641	588,936	
2028	470,478	0.62	292,353	14,765,700	x 0.75	= 11,074,275	3,115,347	597,111	
2029	476,911	0.62	296,583	14,370,256	x 0.75	= 10,777,692	3,146,648	604,280	
2030	482,738	0.62	300,527	13,969,553	x 0.75	= 10,477,165	3,176,656	610,766	
2031	487,942	0.62	303,753	13,564,549	x 0.75	= 10,173,412	3,205,911	617,322	
2032	493,203	0.62	307,013	13,155,198	x 0.75	= 9,866,399	3,234,396	623,949	
2033	498,521	0.62	310,309	12,741,453	x 0.75	= 9,556,090	3,262,095	630,367	
2034	503,897	0.62	313,641	12,323,266	x 0.75	= 9,242,449	3,288,990	636,206	
2035	508,877	0.62	316,726	11,900,964	x 0.75	= 8,925,723	3,315,345	641,736	
2036	513,319	0.62	319,479	11,474,991	x 0.75	= 8,606,243	3,341,513	647,315	
2037	517,801	0.62	322,256	11,045,316	x 0.75	= 8,283,987	3,367,488	652,943	
2038	522,322	0.62	325,058	10,611,905	x 0.75	= 7,958,929	3,393,266	658,420	
2039	526,883	0.62	327,885	10,174,725	x 0.75	= 7,631,044	3,418,841	663,543	
2040	531,161	0.62	330,536	9,734,011	x 0.75	= 7,300,508	3,444,408	668,506	
2041	535,150	0.62	333,007	9,290,001	x 0.75	= 6,967,501	3,470,167	673,506	
2042	539,170	0.62	335,498	8,842,670	x 0.75	= 6,632,003	3,496,118	678,543	
2043	543,220	0.62	338,008	8,391,993	x 0.75	= 6,293,995	3,522,263	683,617	
2044	547,299	0.62	340,535	7,937,946	x 0.75	= 5,953,460	3,548,603	688,729	
2045	551,409	0.62	343,082	7,480,504	x 0.75	= 5,610,378	3,575,141	693,879	
2046	555,549	0.62	345,647	7,019,641	x 0.75	= 5,264,731	3,601,878	699,068	
2047	559,721	0.62	348,232	6,555,332	x 0.75	= 4,916,499	3,628,816	704,296	
2048	563,924	0.62	350,836	6,087,550	x 0.75	= 4,565,663	3,655,955	709,563	
2049	568,158	0.62	353,460	5,616,271	x 0.75	= 4,212,203	3,683,298	714,869	
2050	572,424	0.62	356,103	5,141,467	x 0.75	= 3,856,100	3,710,846	720,215	
2051	576,723	0.62	358,766	4,663,112	x 0.75	= 3,497,334	3,738,600	725,602	
2052	581,053	0.62	361,449	4,181,180	x 0.75	= 3,135,885	3,766,563	731,028	
2053	585,416	0.62	364,152	3,695,643	x 0.75	= 2,771,732	3,794,735	736,496	
2054	589,812	0.62	366,876	3,206,475	x 0.75	= 2,404,856	3,823,118	742,004	
2055	594,241	0.62	369,620	2,713,649	x 0.75	= 2,035,237	3,851,714	747,554	
2056	598,703	0.62	372,384	2,217,136	x 0.75	= 1,662,852	3,880,525	753,145	
2057	603,199	0.62	375,169	1,716,911	x 0.75	= 1,287,683	3,909,551	758,778	
2058	607,728	0.62	377,975	1,212,943	x 0.75	= 909,707	3,938,795	764,453	
2059	612,291	0.62	380,803	705,206	x 0.75	= 528,905	3,968,259	770,171	
2060	616,889	0.62	383,651	193,672	x 0.75	= 145,254	3,997,943	N/A	

[*] The change in permitted capacity is due to a revision of the County's landfill permit reflecting an increase in landfill height from 100 feet to 200 feet, resulting in the addition of an estimated 9.9 million tons of disposal capacity or an estimated 30 years of additional capacity.

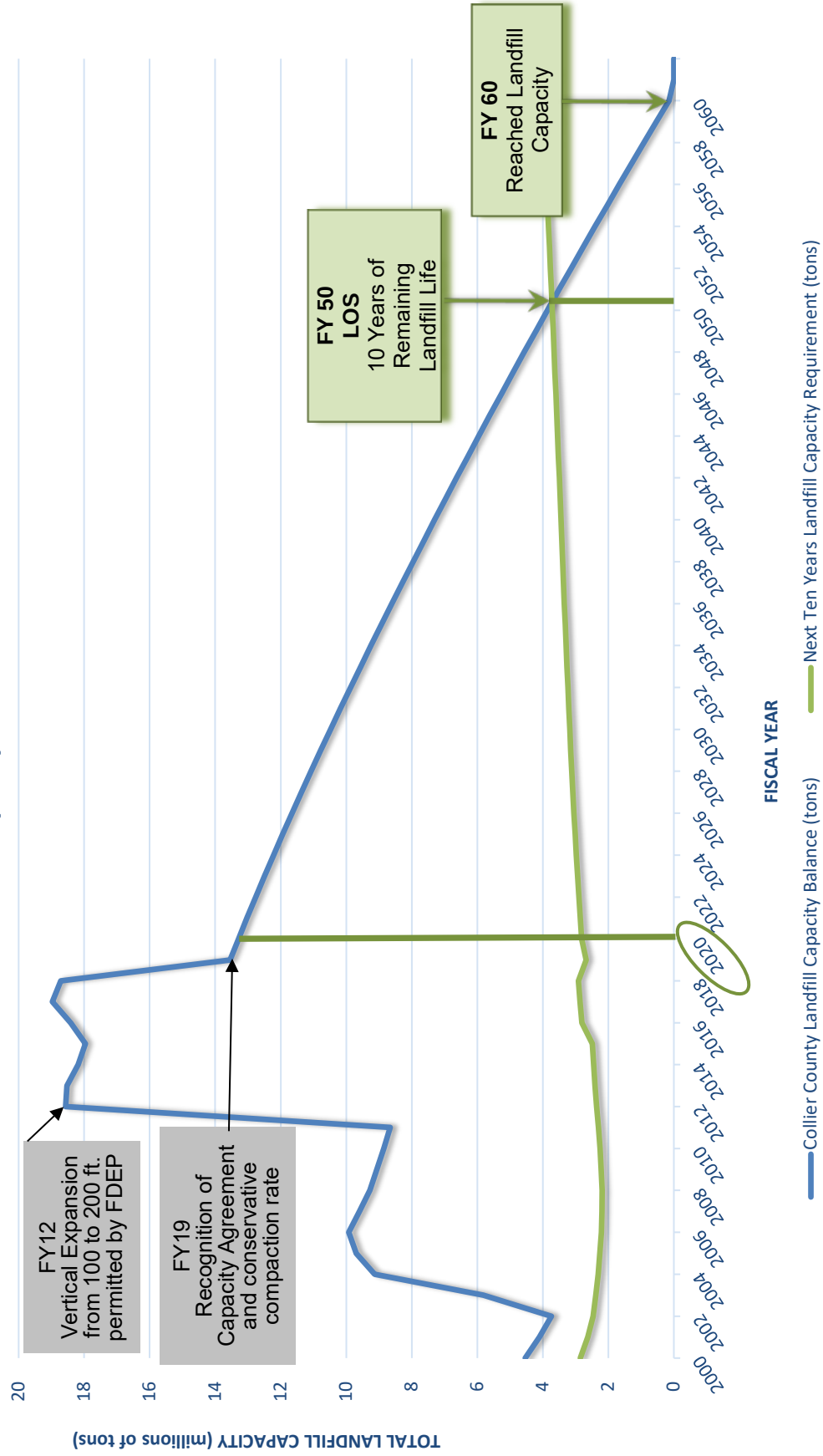
- 1 Data prior to this Fiscal Year 2020 AIR is based upon previous AIR Reports.
- 2 County provided BEBR peak population for Municipal Service District I population.
- 3 Tons Per Capita Disposal Rate = Projected Annual Tons Disposed (column 4) divided by the Peak Population (column 2).
- 4 Estimated Annual Tons Disposed is the estimated tons to be landfilled based on historical disposal rates and peak population projections.
- 5 Total Landfill Capacity Balance (cy) for the Fiscal Year 2020 is derived from the 2020 Airspace Utilization Report performed by Carlson Environmental Consultants, PC for the approximate calendar year of 2019. The calendar year estimate is adjusted to a Fiscal Year basis by adding the estimated cubic yards utilized during the months of October 2019 through December 2019 in order to determine the beginning Fiscal Year balance (not shown). Fiscal Year values in 2020 and beyond are estimated based upon the projected annual tonnage to be disposed and the County's average compaction rate.
- 6 Estimated Average Compaction Rate is the projected average tons disposed per cubic yard of landfill space. The Compaction Rate of .75 tons/cy (1,500 lbs./cy) was determined by historical average. This value varies daily based upon waste composition, equipment, and weather.
- 7 Collier County Landfill Capacity Balance (tons) is the previous year's Total Landfill Capacity Balance (column 7) minus Annual Tons Disposed (column 4) at the Collier County Landfill.
- 8 Next Ten Years Landfill Capacity Requirement (tons) is the sum of the next ten years of Annual Tons Disposed (column 4) at the Collier County Landfill.
- 9 Two Year Landfill Capacity Requirement (tons) = the sum of the next 2 years (column 2) estimated landfilled tons.
- 10 Available Lined Landfill Capacity (tons) is the previous year's Total Landfill Capacity Balance (column 10) minus Annual Tons Disposed (column 4) at the Collier County Landfill and construction schedule for each Cell.

2020 ANNUAL UPDATE AND INVENTORY REPORT

(AUIR)

SOLID WASTE MANAGEMENT

Level of Service (LOS) Standard Assessment



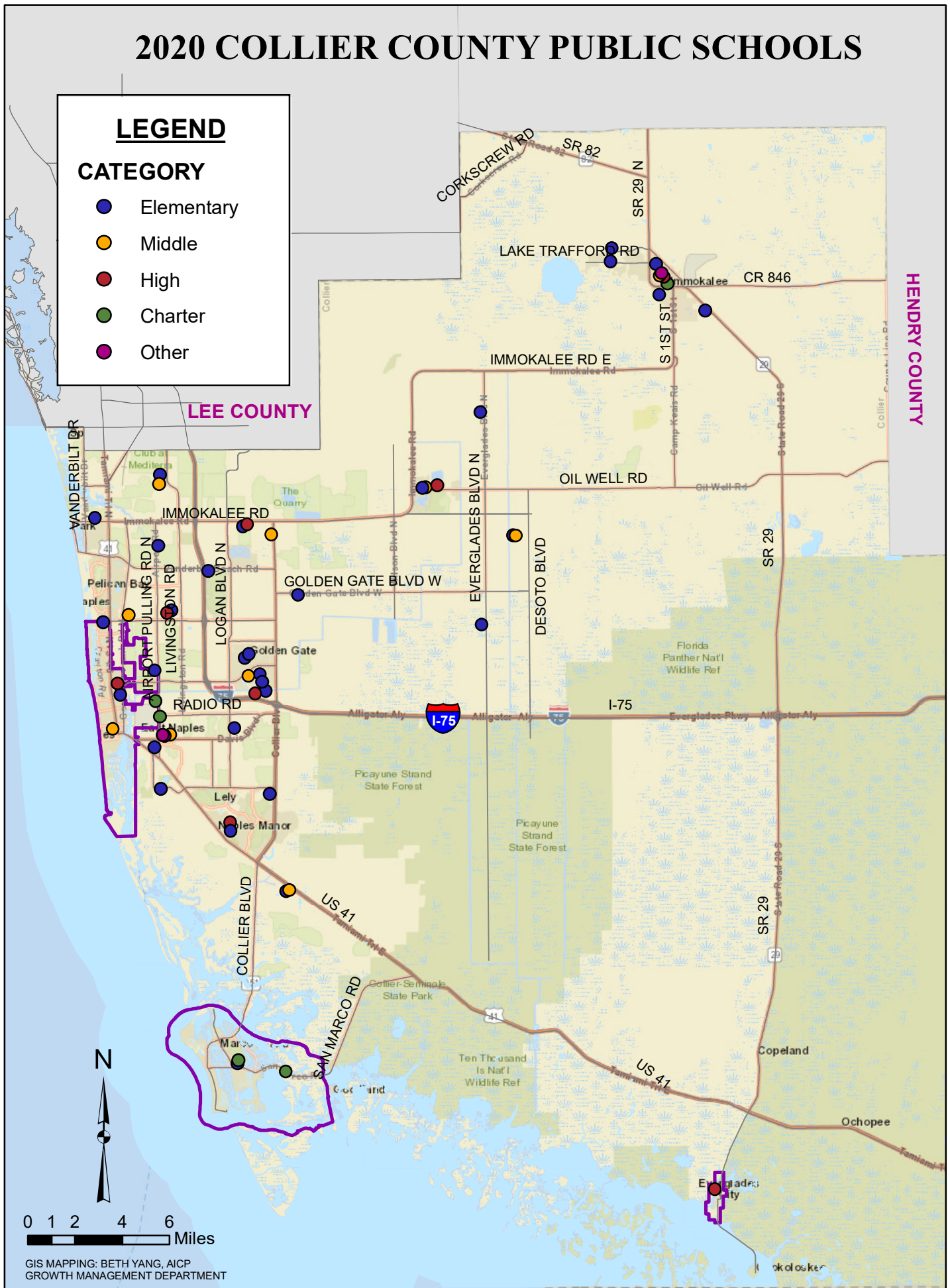
COLLIER COUNTY SCHOOL CAPITAL IMPROVEMENT PLAN

CONTENTS

- **SUMMARY OF DISTRICT SCHOOL BOARD OF COLLIER COUNTY CAPITAL IMPROVEMENT PLAN (CIP) FOR NEXT FIVE YEARS**
- **COUNTYWIDE SCHOOLS INVENTORY – MAP**

Collier County 2019 Annual Update and Inventory Report on Public Facilities

2020 COLLIER COUNTY PUBLIC SCHOOLS



COUNTY PARKS AND RECREATION FACILITIES

CONTENTS

- **COUNTY COMMUNITY AND REGIONAL PARK LANDS – SUMMARY**
- **LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR COMMUNITY PARK LANDS**
 - **TABLE**
 - **CHART**
- **ANTICIPATED CHANGES IN COMMUNITY PARK LAND INVENTORY OVER NEXT FIVE YEARS – TABLE**
- **LEVEL OF SERVICE STANDARD (LOSS) ASSESSMENT FOR REGIONAL PARK LANDS**
 - **TABLE**
 - **CHART**
- **ANTICIPATED CHANGES IN REGIONAL PARK LAND INVENTORY OVER NEXT FIVE YEARS – TABLE**
- **COUNTY PARK LAND INVENTORY**
- **COUNTY PARKS INVENTORY – MAP**
- **FEDERAL AND STATE OWNED PARK LAND – MAP**

2020 AUIR SUMMARY
COMMUNITY AND REGIONAL PARK LANDS

Facility Type: Community and Regional Park Land (Category A)

Level of Service Standards (LOSS): 1.2 acres per 1,000/population (Community)
 2.7 acres per 1,000/population (Regional)

Unit Costs: \$119,947 per acre* (Community)
 \$504,450 per acre* (Regional)

Community Parks: Using the Peak Season population for unincorporated area of the County, the following is set forth:

	<u>Acres</u>	<u>Value</u>
Available Inventory as of 9/30/2020	594.99	\$71,367,266
Required Inventory as of 9/30/2025	551.45 **	\$66,144,773
Proposed AUIR FY 2020/21-2024/25	<u>0.22</u>	<u>\$26,388</u>
5-year Surplus or (Deficit)	43.76	\$5,248,881

Regional Parks: Using the Countywide Peak Season population, the following is set forth:

Available Inventory as of 9/30/2020	1,559.96	\$786,921,822
Required Inventory as of 9/30/2025	1,374.29 ***	\$693,260,591
Proposed AUIR FY 2020/21-2024/25	<u>1.75</u> ****	<u>\$882,788</u>
5-year Surplus or (Deficit)	187.42	\$94,544,019

Expenditures

Proposed AUIR FY 20/21-24/25 (value of) Acquisitions	\$0
Debt Service Payments for 2011/2013 Bonds	\$18,065,200
Debt Service Payments for 2019 Loan****	<u>\$12,090,900</u>
Total Expenditures	\$30,156,100

Revenues

Impact Fees anticipated	\$43,936,600
Interest/Misc	\$2,560,000
Grant/Reimbursement	\$0
Available Cash for Future Projects/Payment of Debt Service	\$10,835,400
Proposed added value through commitments, leases and governmental transfers	\$0
Surtax for Big Corkscrew Island Regional Park	<u>\$40,000,000</u>
Total Revenues	\$97,332,000

Surplus or (Deficit) Revenues***** \$67,175,900

Revenues needed to maintain existing LOSS none

Recommendation:

That the BCC approve the proposed Community and Regional Park Lands AUIR and adopt the CIE Update for FY 2020/21- FY 2024/25.

Notes:

- * Community Park Land and Regional Park Land Unit Cost values are based on the 2017 Impact Fee Study Update
- ** Peak Season population for the unincorporated area of the County of 459,543 x 0.0012 LOSS
= 551.45 acres
- *** Countywide Peak Season population of 508,998 x 0.0027 LOSS = 1,374.29 acres
- **** 2019 Loan for GG Golf Course. The loan amount is the full annual debt service amount. The debt will be allocated once all or a portion of the property is re-purposed.
Land purchase 1.75 acres Collier County Sports and Events Park FY21
Land purchase .22 acres Hamilton Ave Collier Enterprises property FY21
- ***** Reserved for future growth.

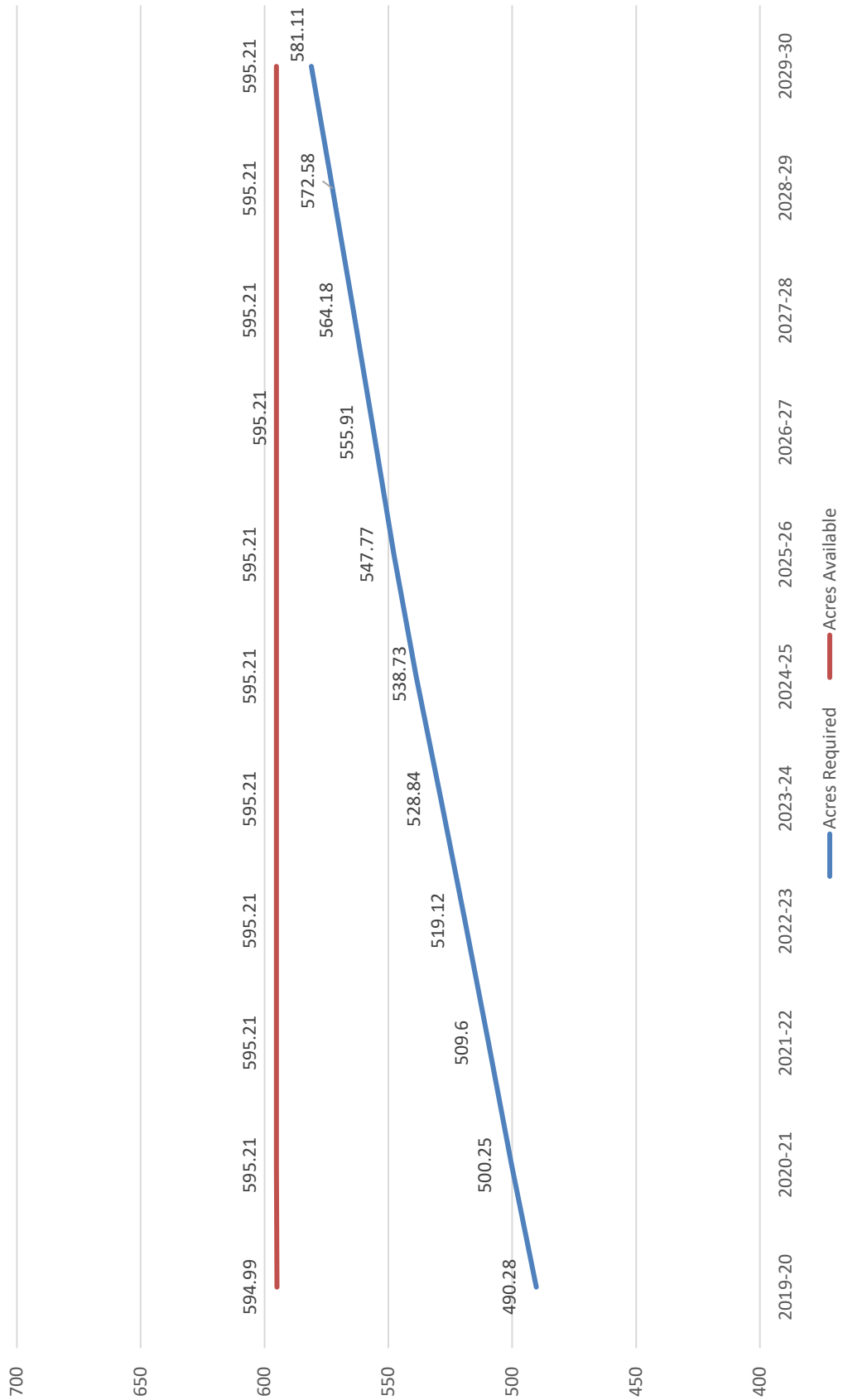
2020 AUIR

Community Park Acres
LOSS: 1.2 Acres/1000 Population

FISCAL YEAR	POPULATION UNINCORPORATED	PARK ACRES REQUIRED 0.0012000	PARK ACRES PLANNED IN AUIR	PARK ACRES AVAILABLE *	SURPLUS/ (DEFICIENCY)	REQUIRED COST AT	TOTAL/VALUE AVAILABLE
2019-20	418,625	502.35	0.00	594.99	92.64	\$119,947	\$119,947
2020-21	426,709	512.05	0.22	595.21	83.16	\$61,418,861	\$71,393,654
2021-22	434,950	521.94	0.00	595.21	73.27	\$62,605,137	\$71,393,654
2022-23	443,351	532.02	0.00	595.21	63.19	\$63,814,203	\$71,393,654
2023-24	451,914	542.30	0.00	595.21	52.91	\$65,047,258	\$71,393,654
2024-25	459,543	551.45	0.00	595.21	43.76	\$66,144,773	\$71,393,654
1st 5-Year Growth (2021-2025)	40,918	49.10	0.22				
2025-26	466,207	559.45	0.00	595.21	35.76	\$67,104,349	\$71,393,654
2026-27	472,970	567.56	0.00	595.21	27.65	\$68,077,119	\$71,393,654
2027-28	479,837	575.80	0.00	595.21	19.41	\$69,065,483	\$71,393,654
2028-29	486,807	584.17	0.00	595.21	11.04	\$70,069,439	\$71,393,654
2029-30	493,031	591.64	0.00	595.21	3.57	\$70,965,443	\$71,393,654
2nd 5-Year Growth (2026-2030)	33,488	40.19	0.00				
Total 10-Year Growth (2021-2030)	74,406	89.29	0.22				

Note:
Hamilton Ave Collier Enterprises Property land purchase .22 acres

Community Park Acreage



Anticipated Changes in Community Park Land Inventory FY 20/21 to FY 29/30

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
2020/21	Add	Land purchase	Hamilton Ave Collier Ent	0.22	\$119,947	
					\$26,388	
			FY 20/21 TOTAL	0.22	\$26,388	\$0
2021/22					\$0	
			FY 21/22 TOTAL	0	\$0	\$0
2022/23					\$0	\$0
			FY 22/23 TOTAL	0	\$0	\$0
2023/24					\$0	
			FY 23/24 TOTAL	0	\$0	\$0
2024/25					\$0	
			FY 24/25 TOTAL	0	\$0	\$0
			FY 20/21 TO FY 24/25 FIVE-YEAR SUBTOTAL	0.22	\$26,388	\$0
2025/26					\$0	
			FY 25/26 TOTAL	0	\$0	\$0
2026/27					\$0	
			FY 26/27 TOTAL	0	\$0	\$0
2027/28					\$0	
			FY 27/28 TOTAL	0	\$0	\$0
2028/29					\$0	
			FY 28/29 TOTAL	0	\$0	\$0
2029/30					\$0	
			FY 29/30 TOTAL	0	\$0	\$0
			FY 25/26 TO FY 29/30 FIVE-YEAR SUBTOTAL	0	\$0	\$0
			FY 20/21 TO FY 29/30 TEN-YEAR TOTAL	0.22	\$26,388	\$0

2020 AUJR

Regional Park Land Acres

LOSS: 2.7 Acres / 1000 Population

FISCAL YEAR	POPULATION CO-WIDE	FACILITIES REQUIRED 0.0027000	FACILITIES PLANNED IN AUJR	PARK ACRES AVAILABLE*	PARK ACRES SURPLUS/ SURPLUS/ (DEFICIENCY)	REQUIRED COST AT	TOTAL/VALUE AVAILABLE
2019-20	465,754	1,257.54	0.00	1,559.96	302.42	\$634,366,053	\$786,921,822
2020-21	474,299	1,280.61	1.75	1,561.71	281.10	\$646,003,715	\$787,804,610
2021-22	483,001	1,304.10	0.00	1,561.71	257.61	\$657,853,245	\$787,804,610
2022-23	491,863	1,328.03	0.00	1,561.71	233.68	\$669,924,734	\$787,804,610
2023-24	500,887	1,352.39	0.00	1,561.71	209.32	\$682,213,136	\$787,804,610
2024-25	508,998	1,374.29	0.00	1,561.71	187.42	\$693,260,591	\$787,804,610
1st 5-Year Growth (2021-2025)	43,244	116.76	1.75				
2025-26	516,165	1,393.65	0.00	1,561.71	168.06	\$703,026,743	\$787,804,610
2026-27	523,433	1,413.27	0.00	1,561.71	148.44	\$712,924,052	\$787,804,610
2027-28	530,803	1,433.17	0.00	1,561.71	128.54	\$722,962,607	\$787,804,610
2028-29	538,277	1,453.35	0.00	1,561.71	108.36	\$733,142,408	\$787,804,610
2029-30	545,033	1,471.59	0.00	1,561.71	90.12	\$742,343,576	\$787,804,610
2nd 5-Year Growth (2026-2030)	36,035	97.29	0.00				
Total 10-Year Growth (2021-2030)	79,279	214.05	1.75				

Note:

Paradise Coast Sport Park land purchase 1.75 acres

Regional Park Acreage



Anticipated Changes in Regional Park Land Inventory FY 20/21 to FY 29/30

FY	Action	Acquisition Type	Location	Acres	Value	Cash Expenditure
2020/21					\$504,450	
	Add	Land purchase	Paradise Coast Sports	1.75		
FY 20/21 TOTAL						
2021/22				1.75	\$882,788	\$0
					\$0	
FY 21/22 TOTAL						
2022/23				0.00	\$0	\$0
					\$0	
FY 22/23 TOTAL						
2023/24				0.00	\$0	\$0
					\$0	
FY 23/24 TOTAL						
2024/25				0.00	\$0	\$0
					\$0	
FY 24/25 TOTAL						
FY 20/21 TO FY 24/25 FIVE-YEAR SUBTOTAL						
				1.75	\$0	\$0
2025/26						
FY 25/26 TOTAL						
2026/27				0	\$0	\$0
					\$0	
FY 26/27 TOTAL						
2027/28				0	\$0	\$0
					\$0	
FY 27/28 TOTAL						
2028/29				0	\$0	\$0
					\$0	
FY 28/29 TOTAL						
2029/30					\$0	\$0
					\$0	
FY 29/30 TOTAL						
				0	\$0	\$0
FY 25/26 TO FY 29/30 FIVE-YEAR SUBTOTAL						
				0	\$0	\$0
FY 20/21 TO FY 29/30 TEN-YEAR TOTAL						
				1.75	\$0	\$0

Summary of Changes in Parks and Recreation Inventory FY 19 to FY 20

Community Park Land Changes

Action	Location	Acres	Explanation
Add	Immokalee South Park	0.25	South Park Property Interest
NET CHANGE TO COMMUNITY PARK ACREAGE		0.25	

Regional Park Land Changes

Action	Location	Acres	Explanation
Add	Paradise Coast Sports Complex	0.35	Updated land acreage
NET CHANGE TO REGIONAL PARK ACREAGE		0.35	

2020 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Concervation Preserve Acres
1	Marco	951 Boat Ramp	Regional	0.50			0.50		
1	Marco	Caxambas Park	Regional	4.20			4.20		
1	East Naples	Cindy Mysels CP	Community	5.00	5.00				
1	South Naples	Eagle Lakes CP	Community	32.00	32.00				
1	Marco	Goodland Boating Park	Regional	5.00			5.00		
1	Marco	Isle of Capri Land Parcel	Neighborhood	0.11		0.11			
1	Marco	Isles of Capri NP	Neighborhood	0.35		0.35			
1	Marco	Isles of Capri Paddlecraft Park	Regional	9.00			9.00		
1	South Naples	Manatee CP	Community	60.00	60.00				
1	Marco	Mar Good Harbor Park	Regional	2.50			2.50		
1	East Naples	Naples Manor NP	Neighborhood	0.30		0.30			
1	South Naples	Panther NP	Neighborhood	0.50		0.50			
1	South Naples	Port of The Islands	Regional	5.55			5.55		
1	Urban Estates	Rich King Greenway - (FPL)	Regional	37.50				37.50	
1	Central Naples	Rock Harbor Parcels	Neighborhood	0.10		0.10			
1	Marco	South Marco Beach Access	Regional	5.00			5.00		
1	Marco	Tigertail Beach Park	Regional	31.60			31.60		
2	North Naples	Barefoot Beach Access	Regional	5.00			5.00		
2	North Naples	Barefoot Beach Preserve	Regional	159.60			159.60		
2	North Naples	Barefoot Beach State Land	Regional	186.00			186.00		
2	North Naples	Clam Pass Park	Regional	35.00			35.00		
2	North Naples	Cocohatchee River Park	Regional	7.56			7.56		
2	North Naples	Conner Park	Regional	5.00			5.00		
2	North Naples	Naples Park Elementary	Community	5.00	5.00				
2	North Naples	North Collier RP	Regional	207.70			207.70		
2	North Naples	North Naples NP (Best Friends--surplus)	Neighborhood	0.36		0.36			
2	North Naples	Osceola Elementary	Community	3.20	3.20				
2	North Naples	Palm River NP	Neighborhood	3.00		3.00			
2	North Naples	Pelican Bay CP	Community	15.00	15.00				
2	North Naples	Vanderbilt Beach	Regional	5.00			5.00		
2	North Naples	Vanderbilt Beach Access (7 locations)	Regional	0.45			0.45		
2	North Naples	Veterans CP	Community	43.64	43.64				
2	North Naples	Veterans Memorial Elementary	Community	4.00	4.00				
2	North Naples	Willoughby Park	Neighborhood	1.20		1.20			
3	Golden Gate	Aaron Lutz NP	Neighborhood	3.20		3.20			
3	Golden Gate	Paradise Coast Sports Park	Regional	194.23			194.23		
3	Golden Gate	Golden Gate Community Center	Community	21.00	21.00				
3	Golden Gate	Golden Gate CP	Community	35.00	35.00				
3	Golden Gate	Golden Gate Golf Course	Regional	167.00			167.00		
3	Golden Gate	Golden Gate Greenway / Pathway	Community	3.00	3.00				
3	North Naples	Oakes NP	Neighborhood	2.00		2.00			
3	Golden Gate	Palm Springs NP	Neighborhood	6.70		6.70			
3	Golden Gate	Rita Eaton NP	Neighborhood	4.80		4.80			
3	North Naples	Vineyards CP	Community	35.50	35.50				
4	East Naples	Bay Street Land Parcels	Regional	1.34			1.34		
4	East Naples	Bayview Park	Regional	6.27			6.27		
4	Golden Gate	Coconut Circle NP	Neighborhood	1.20		1.20			
4	East Naples CP	East Naples CP	Community	47.00	47.00				
4	Central Naples	Fred W. Coyle Freedom Park	Regional	25.16			25.16		
4	Central Naples	Gordon River Greenway Park	Regional	79.00			79.00		
4	Central Naples	Naples Zoo	Regional	50.00			50.00		
4	North Naples	North Gulfshore Beach Access	Regional	0.50			0.50		

2020 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Concervation Preserve Acres
4	North Naples	Poinciana NP	Neighborhood	0.30		0.30			
4	East Naples	Sugden RP	Regional	120.00			120.00		
5	Immokalee	Airport Park	Community	19.00	19.00				
5	Immokalee	Ann Oleski Park	Regional	2.30			2.30		
5	Urban Estates	Big Corkscrew Island RP	Regional	62.00			62.00		
5	Urban Estates	Big Corkscrew Island RP - Lake	Regional	90.00			90.00		
5	Urban Estates	Corkscrew Elementary/Middle	Community	16.90	16.90				
5	Immokalee	Dreamland NP - <i>*school fenced in area</i>	Neighborhood	0.50		0.50			
5	Immokalee	Eden Park Elementary	Community	2.80	2.80				
5	Immokalee	Immokalee CP	Community	23.00	23.00				
5	Immokalee	Immokalee High School	Community	1.00	1.00				
5	Immokalee	Immokalee South Park	Community	3.45	3.45				
5	Immokalee	Immokalee Sports Complex	Community	14.00	14.00				
5	Urban Estates	Livingston Woods NP (surplus)	Neighborhood	2.73		2.73			
5	Urban Estates	Max A Hasse CP	Community	20.00	20.00				
5	Immokalee	Oil Well Park	Neighborhood	5.50		5.50			
5	Urban Estates	Palmetto Elementary	Community	2.00	2.00				
5	Immokalee	Pepper Ranch	Regional	50.00			50.00		
5	Urban Estates	Randall Curve	Community	47.00	47.00				
5	Urban Estates	Sabal Palm Elementary	Community	9.50	9.50				
5	Immokalee	Tony Rosbough CP	Community	7.00	7.00				
5	Urban Estates	Vanderbilt Extension CP	Community	120.00	120.00				380.89
1	Marco	McIlvane Marsh	Preserve	380.89					2.45
1	Marco	Otter Mound Preserve	Preserve	2.45					83.18
1	East Naples	Shell Island Preserve	Preserve	83.18					3.64
2	North Naples	Cochatchee Creek Preserve	Preserve	3.64					135.36
2	North Naples	Railhead Scrub Preserve	Preserve	135.36					26.77
2	North Naples	Wet Woods Preserve	Preserve	26.77					18.46
3	North Naples	Alligator Flag Preserve	Preserve	18.46					6.78
3	North Naples	Logan Woods Preserve	Preserve	6.78					12.50
4	Central Naples	Fred W. Coyle Freedom Park	Preserve	12.50					50.51
4	Central Naples	Gordon River Greenway	Preserve	50.51					32.50
5	Urban Estates	Camp Keais Strand	Preserve	32.50					367.70
5	Immokalee	Caracara Prairie Preserve	Preserve	367.70					171.21
5	Urban Estates	Dr Robert H. Gore III	Preserve	171.21					71.00
5	Urban Estates	Nancy Payton Preserve	Preserve	71.00					10.69
5	Immokalee	Panther Walk Preserve	Preserve	10.69					2,511.90
5	Immokalee	Pepper Ranch Preserve	Preserve	2,511.90					213.88
5	Urban Estates	Red Maple Swamp Preserve	Preserve	213.88					9.26
5	Urban Estates	Redroot Preserve	Preserve	9.26					76.74
5	Urban Estates	Rivers Road Preserve	Preserve	76.74					87.41
5	Urban Estates	Winchester Head Preserve	Preserve	87.41					4,272.83
Total Collier Units				6,460.63	594.99	32.85	1,522.46	37.50	
Regional Parks and Pathways					1,559.96				

Totals	Community Park Acres	Neighborhood Park Acres	Regional Park Acres
Value per Unit	\$119,947		\$504,450
Total Value	\$71,367,266		\$786,921,822

Concervation Preserve Acres

2020 Collier County Park Land Inventory

Commissioner District	District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres	Concervation Preserve Acres
-----------------------	----------	----------	------	---------	----------------------	-------------------------	---------------------	-----------------------------	-----------------------------

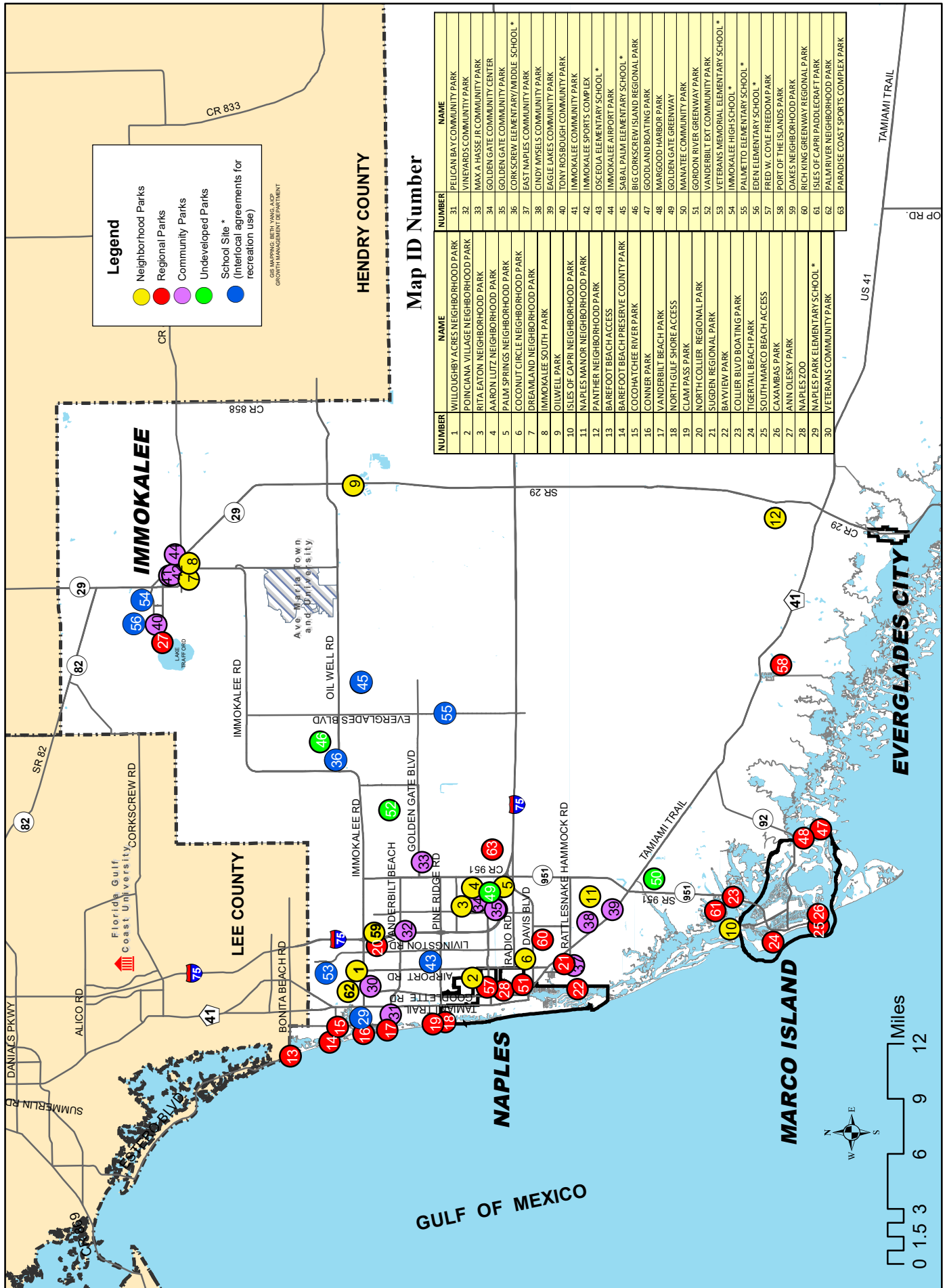
Municipalities Acreage

District	Location	Type	Acreage	Community Park Acres	Neighborhood Park Acres	Regional Park Acres	Regional Park Pathway Acres
City of Naples	Beach Accesses	Regional	0.50			0.50	
City of Naples	Naples Landings	Regional	3.81			3.81	
City of Naples	Fleischmann Park	Community	25.26	25.26			
City of Naples	Cambier Park	Community	12.84	12.84			
City of Naples	Baker Park	Regional	15.20			15.20	
City of Naples	Lowdermilk Park	Regional	10.30			10.30	
City of Naples	River Park CC	Community	1.61	1.61			
City of Naples	Naples Preserve	Regional	9.78			9.78	
City of Naples	Anthony Park	Neighborhood	7.00		7.00		
	Total Naples Units		86.30	39.71	7.00	39.59	0.00
City of Marco Island	Jane Hittler	Neighborhood	0.25		0.25		
City of Marco Island	Veterans' Memorial	Neighborhood	0.25		0.25		
City of Marco Island	Leigh Plummer	Neighborhood	3.50		3.50		
City of Marco Island	Racquet Center	Community	2.97	2.97			
City of Marco Island	Frank Mackle	Community	30.00	30.00			
City of Marco Island	Winterberry	Neighborhood	5.00		5.00		
	Total Marco Units		41.97	32.97	9.00	0.00	0.00
Everglades City	Community Park	Community	0.86	0.86			
Everglades City	McLeod Park	Community	1.04	1.04			
	Total Everglades Units		1.90	1.90	0.00	0.00	0.00
	Total Municipality Units	17	130.17	74.58	16.00	39.59	0.00

Notes: *Not included in the inventory are those community and regional parks associated with the City of Naples and City of Marco Island. Within the City of Marco Island, the County operates three regional parks, which are included within the Counties regional park acreage inventory.

*Park land and amenities located in Private communities are taken into consideration when planning new parks and facilities but cannot be counted as inventory due to lack of public access

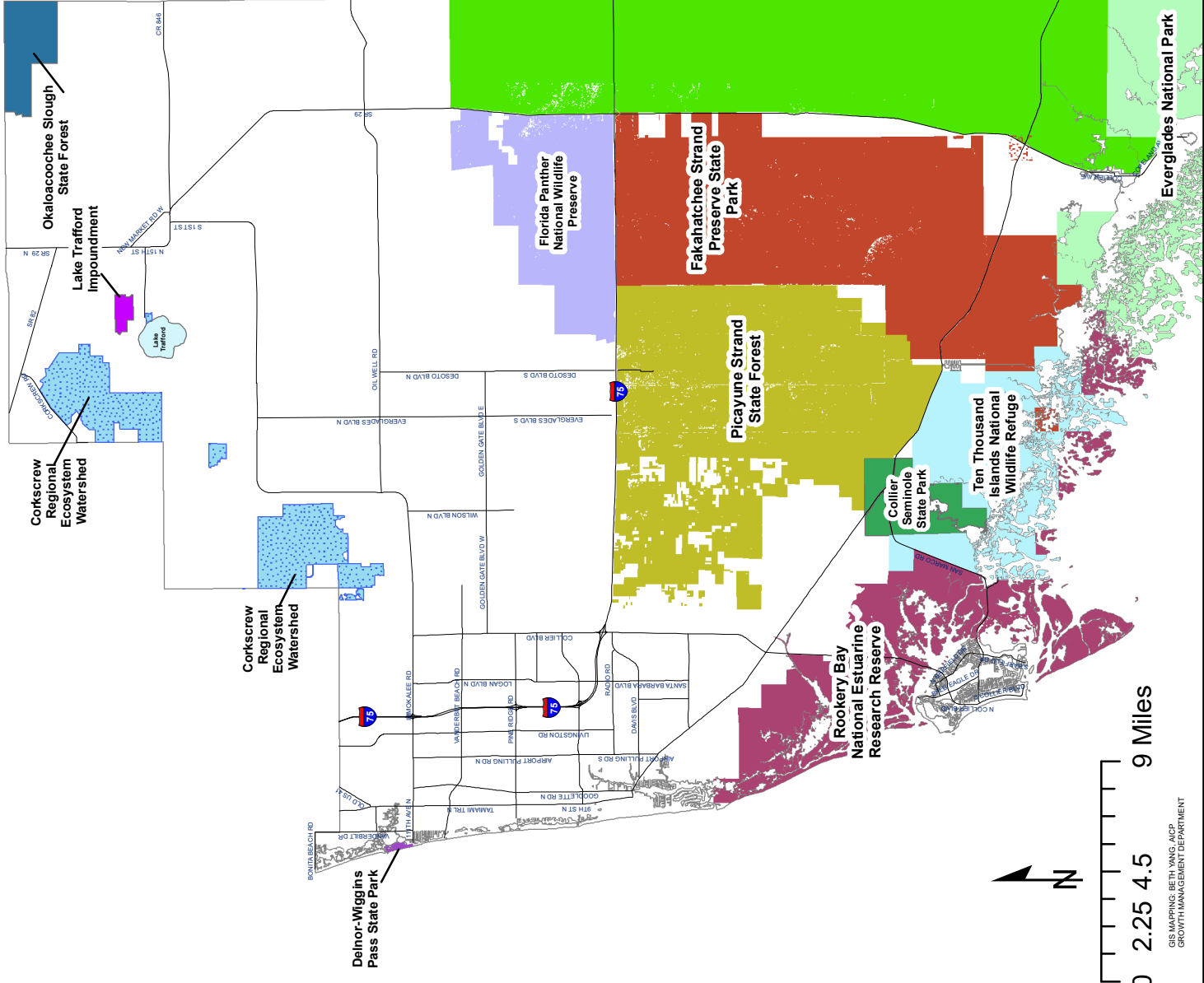
2020 PARKS INVENTORY





FEDERAL AND STATE OWNED PARK LAND

(Disclaimer: The information provided is to be used for general mapping purposes only. Ground surveying and records search must be used for absolute boundaries/acreages)



Name:	Acres:
Big Cypress National Preserve	574,848
Collier-Seminole State Park	7,271
Corkscrew Regional Ecosystem Watershed	15,421
Delnor-Wiggins Pass State Park	166
Everglades National Park	26,840
Fakahatchee Strand Preserve State Park	75,000
Florida Panther National Wildlife Refuge	26,400
Lake Trafford Impoundment	634
Okaloacocochee Slough State Forest	4,920
Picayune Strand State Forest	78,909
Rookery Bay National Reserve	110,000
Ten Thousand Islands National Wildlife Refuge	35,000
TOTAL:	
955,409	

CAPITAL IMPROVEMENT ELEMENT (CIE) AMENDMENT SUBMITTALS FOR CATEGORY “A” FACILITIES

CONTENTS

- **EXHIBIT “A”, SCHEDULE OF CAPITAL IMPROVEMENTS
FOR NEXT 5 FISCAL YEARS**
- **APPENDIX “H”, SCHEDULE OF CAPITAL
IMPROVEMENTS FOR FUTURE FISCAL YEARS 6 – 10**

Updates and Amendments to the Capital Improvement Element

The Annual Update and Inventory Report includes updates to the Capital Improvement Element of the Growth Management Plan needed to eliminate existing deficiencies, replace obsolete or worn out facilities, and make available adequate facilities for future growth. These updates include the two following tables and two Collier County Public School District planning documents as provided for in Policy 4.2 of the Capital Improvement Element.

What follows as “Exhibit A” is the Schedule of Capital Improvements for the next five year period [Fiscal years 2021 through 2025]. Exhibit A is a component of the Capital Improvement Element and indicates the County’s needs for arterial and collector roads and bridge facilities, parks and recreation facilities, stormwater management system, potable water system, solid waste disposal facilities, and wastewater collection and treatment system improvements – all Category “A” facilities subject to concurrency. Public schools are also Category “A” facilities, and planning for public schools over the next five year period is provided by the financially feasible five-year project programming in the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2019 through 2038* that is incorporated by reference in the Capital Improvement Element. School planning for this period is also provided by the Collier County Public School District *Facilities Work Program*, as incorporated into the Capital Improvement Element as data and analysis.

What follows as “Appendix H” is the Schedule of Capital Improvements for the future five year period [Fiscal years 2026 through 2030]. Appendix H supplements the Capital Improvement Element for long term facilities planning of the same Category “A” facilities. Long term planning for public schools is provided by the Collier County Public School District *Capital Improvement Plan for Fiscal Years 2019 through 2038*.

Each Schedule of Capital Improvements table represents the revenue sources and expenditures for Category “A” public facilities to maintain the levels of service standards established by the Capital Improvement Element. These updated tables, together with updated references to School District documents and their incorporation into the Capital Improvement Element as data and analysis, constitute the amendments to the Capital Improvement Element.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS										
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
	SCHEDULE NOTES		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025			TOTAL
60144	Oil Well Rd - Everglades Blvd to Oil Well Grade	Advanced Construction	\$2,000,000	\$300,000	\$300,000	\$300,000	\$300,000			\$3,200,000
60168	Vanderbilt Beach Rd - Collier Blvd to 16th St	RMD/A 21, R 22, C 23	\$600,000		\$0					\$600,000
60229	Wilson Blvd - Golden Gate Blvd to Immokalee Rd	A 21, D/R 22, C 24	\$7,100,000		\$0					\$7,100,000
60129	Wilson/Bentfield Extension - Lord's Way to City Gate N	S/C 21, R/A 22-25	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000			\$9,000,000
60215	Triangle Blvd/Price St	R 21, R/C 22	\$6,800,000		\$0					\$6,800,000
60190	Alford Rd - Vanderbilt Beach Rd to Immokalee Rd	DIR 21, C/M 22, 23	\$3,100,000	\$14,800,000						\$17,900,000
66066	11 Bridge Replacements	DIR 21, D 22, D/C/M 23	\$33,100,000	\$0	\$0					\$33,100,000
60201	Pine Ridge Rd - Livingston Blvd to I-75	R 21, D 22, D/C/M 23	\$1,500,000	\$0	\$42,500,000	\$0				\$44,000,000
60212	New Golden Gate Bridges (10)	D/C 22 - 25	\$13,000,000	\$15,500,000	\$6,100,000	\$27,000,000				\$57,200,000
33524	Tiger Grant	C 21	\$13,000,000	\$0	\$0	\$0				\$13,000,000
70167	Business Center (City Gate)	A 21, C 23	\$5,500,000	\$5,500,000	\$0	\$0				\$11,000,000
68056	Collier Blvd (Green to GG Main Canal)	R/D/C 23	\$0	\$0	\$38,200,000	\$0				\$38,200,000
60065	Randall Blvd - Immokalee Rd to Oil Well	R 22, D 24	\$250,000		\$0	\$3,000,000				\$3,250,000
60241	16th Street NE Bridge	D/C/M 21	\$11,800,000		\$0	\$0				\$11,800,000
TBD	Goodlette Rd (Vanderbilt Beach Rd to Immokalee Rd)	D 23, A 24, 25	\$0	\$0	\$2,309,000	\$634,000				\$2,943,000
TBD	Green Blvd (Santa Barbara Blvd to Sunshine)	S 23	\$0	\$0	\$500,000	\$0				\$500,000
TBD	Vanderbilt Beach Rd - 16th to Everglades Blvd	DIR/M 22, R/A 23, 24	\$0	\$2,800,000	\$11,250,000	\$5,000,000				\$19,050,000
60228	Sidewalks	D 21, D/C 22, 23, C 24, 25	\$1,416,000	\$2,281,000	\$1,251,000	\$4,895,000				\$9,843,000
60073	Immokalee Rd - Livingston to Logan	S/A 24	\$0	\$0	\$0	\$1,000,000				\$1,000,000
60144	Davis Mystic DCA Reimb	A 21-25	\$500,000	\$0	\$0	\$0				\$500,000
TBD	Oil Well Rd (Everglades to Oil Well Grade)	C 23	\$2,000,000	\$300,000	\$300,000	\$300,000				\$3,200,000
60198a	Poinciana Professional Park	C 23	\$0	\$0	\$300,000	\$1,600,000				\$2,300,000
60198b	Veterans Memorial PH I & PH 2	R 21, D/A/C 22, R/D 23, C/M 24	\$7,000,000		\$0	\$1,600,000				\$8,600,000
60199	Veterans Memorial PH I HS to US 41	R 21, D/A/C 22, R/D 23, C/M 24	\$1,000,000	\$2,700,000	\$13,400,000	\$0				\$17,100,000
60147	Vanderbilt Beach Rd - US 41 to E of Goodlette	D 21, D/C 25	\$0	\$0	\$0	\$0				\$0
60219	Randall/Immokalee Road Intersection	DIR 21, C/M 23	\$2,500,000		\$12,600,000	\$0				\$15,100,000
60229	Whipponville	C 21-22	\$700,000	\$0	\$0	\$0				\$700,000
TBD	Wilson Blvd - GG Blvd to Immokalee Rd	A 21, D/R 21, 23, C 24	\$7,100,000	\$0	\$0	\$20,500,000				\$27,600,000
Shit	Santa Barbara/Logan turnlens	D 24, C 25	\$0	\$0	\$0	\$879,000				\$8,759,000
Shit	Several Shoulder Widening/Intersection Improvements	Operations Improvements/Programs	\$2,242,000	\$3,000,000	\$1,600,000	\$2,000,000				\$10,842,000
60085	TIS Reviews	Planning Consulting	\$15,804,000	\$0	\$17,625,000	\$17,625,000				\$63,978,000
60109	Traffic Studies	Traffic Studies	\$500,000	\$250,000	\$250,000	\$250,000				\$1,250,000
60163	Impact Fee Refunds	Debt Service Payments	\$300,000	\$300,000	\$300,000	\$300,000				\$1,200,000
	Debt Service Payments		\$0	\$250,000	\$250,000	\$250,000				\$1,000,000
			\$13,317,000	\$13,131,000	\$13,131,000	\$13,131,000				\$53,160,000
	ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECT TOTALS		\$153,379,000	\$157,312,000	\$163,671,000	\$121,109,000				\$653,634,000
REVENUE KEY - REVENUE SOURCE			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL		
IF - Impact Fees / COA Revenue			\$15,460,000	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$77,460,000		
Unfunded Needs			\$0	\$0	\$56,637,000	\$43,500,000	\$0	\$100,137,000		
GA - Gas Tax Revenue			\$23,052,000	\$23,500,000	\$23,750,000	\$24,000,000	\$24,250,000	\$118,552,000		
GR - Grants / Reimbursements			\$19,434,000	\$4,928,000	\$9,800,000	\$0	\$6,806,000	\$40,968,000		
GF - Available Cash for Future Projects/Payment of Debt Service			\$534,000	\$0	\$0	\$0	\$0	\$534,000		
GF - General Fund 001			\$9,067,000	\$9,389,000	\$9,389,000	\$9,389,000	\$9,389,000	\$46,623,000		
Sales Tax			\$22,762,000	\$95,781,000	\$35,851,000	\$36,429,000	\$0	\$190,843,000		
IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees			\$2,445,000	\$1,000,000	\$1,000,000	\$1,000,000	\$0	\$5,445,000		
CF - Carry Forward - 313-310 Impact Fees			\$59,834,000	\$0	\$0	\$0	\$0	\$59,834,000		
REIM - Expected FEMA Reimbursement			\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000	\$15,000,000		
TR - MSTU General Fund 111 Transfers			\$1,962,000	\$2,025,000	\$2,025,000	\$2,025,000	(\$2,025,000)	(\$10,082,000)		
RR - Revenue Reduction (less 5% required by law)			\$153,446,000	\$159,573,000	\$152,902,000	\$130,793,000	\$56,920,000	\$653,634,000		
REVENUE TOTAL			\$27,801,000	\$15,637,000	\$0	\$0	\$0	\$43,438,000		
CUMULATIVE FOR FY22 CAPITAL FUNDING			\$0	\$0	\$0	\$0	\$0	\$0		

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

PARKS & RECREATION FACILITIES PROJECTS						
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2021	FY 2022	FY 2023	FY 2024
	Big Corkscrew Park Equipmnt		\$0	\$0	\$0	\$0
	Big Corkscrew Park		\$0	\$0	\$0	\$0
	Fund 346 Debt Service (2011 Bond)		\$2,824,529	\$2,818,329	\$2,820,429	\$2,828,829
	Fund 346 Debt Service (2013 Bond)		\$123,471	\$123,471	\$123,471	\$123,471
	Fund 346 Debt Service (2019 Loan)		\$765,100	\$768,900	\$2,919,000	\$2,933,300
	PARKS & RECREATION FACILITIES					
	PROJECT TOTALS		\$3,713,100	\$3,710,700	\$5,862,900	\$5,885,600
						\$10,983,800
						\$30,156,100

REVENUE KEY - REVENUE SOURCE						
		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
IF - Impact Fees / COA Revenue		\$10,575,000	\$8,630,200	\$8,788,300	\$8,949,200	\$9,093,900
DIF - Deferred Impact Fees		\$0	\$0	\$0	\$0	\$0
GR - Grants / Reimbursements		\$0	\$0	\$0	\$0	\$0
IN - Interest / Misc.		\$512,000	\$512,000	\$512,000	\$512,000	\$512,000
RR - Revenue Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0
CF - Available Cash for Future Projects/Payment of Debt Service		\$10,835,400	\$0	\$0	\$0	\$0
TR - Added Value through Commitments, Leases & Transfers		\$0	\$0	\$0	\$0	\$0
GF - General Fund 001		\$0	\$0	\$0	\$0	\$0
REVENUE TOTAL		\$21,922,400	\$9,142,200	\$9,300,300	\$9,461,200	\$9,605,900
						\$57,332,000

NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

STORMWATER MANAGEMENT SYSTEM PROJECTS									
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
	Countywide Programs, Planning & Maintenance		\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,000,000	
	Infrastructure & Capacity Projects		\$25,005,000	\$47,800,000	\$33,600,000	\$29,850,000	\$18,850,000	\$155,105,000	
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS		\$25,405,000	\$48,200,000	\$34,000,000	\$30,250,000	\$19,250,000	\$157,105,000	
	Stormwater Management Operating		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Debt Service / Reserves		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	STORMWATER MANAGEMENT SYSTEM TOTAL PROGRAM COSTS		\$25,405,000	\$48,200,000	\$34,000,000	\$30,250,000	\$19,250,000	\$157,105,000	

REVENUE KEY - REVENUE SOURCE									
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	
	GR - Grants / Reimbursements		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	GF - New Budget from Fund (310)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Debt Funding		\$14,402,000	\$40,159,000	\$5,439,000	\$0	\$0	\$60,000,000	
	Unmet Funding Needs		\$0	\$0	\$20,520,000	\$22,209,000	\$11,209,000	\$53,938,000	
	CF - Available Cash for Future Projects/Payment of Debt Service		\$2,919,000	\$0	\$0	\$0	\$0	\$2,919,000	
	RR - Revenue Reduction (less 5% required by law)		(\$5,000)	(\$3,000)	(\$3,000)	(\$3,000)	(\$3,000)	(\$17,000)	
	IN - Interest Revenue - misc.		\$95,000	\$50,000	\$50,000	\$50,000	\$50,000	\$295,000	
	GF - New Budget from Fund (101)		\$4,869,000	\$4,869,000	\$4,869,000	\$4,869,000	\$4,869,000	\$24,345,000	
	GF - New Budget from Fund (111)		\$3,125,000	\$3,125,000	\$3,125,000	\$3,125,000	\$3,125,000	\$15,625,000	
	REVENUE TOTAL		\$25,405,000	\$48,200,000	\$34,000,000	\$30,250,000	\$19,250,000	\$157,105,000	

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

POTABLE WATER SYSTEM PROJECTS		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
	Debt Service		\$11,443,500	\$10,849,500	\$9,053,000	\$9,050,500	\$8,767,000	\$49,163,500
	Expansion Related Projects		\$27,725,000	\$18,000,000	\$0	\$0	\$0	\$45,725,000
	Replacement & Rehabilitation Projects		\$30,000,000	\$37,035,000	\$35,555,000	\$32,085,000	\$31,535,000	\$166,210,000
	Departmental Capital		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000	\$3,851,000
	Reserve for Contingencies -- Replacement & Rehabilitation Projects		\$3,000,000	\$3,704,000	\$3,556,000	\$3,209,000	\$3,154,000	\$16,623,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$72,908,500	\$70,343,500	\$48,934,000	\$45,129,500	\$44,257,000	\$281,572,500

REVENUE KEY - REVENUE SOURCE		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
WIF - Water System Development Fees / Impact Fees		\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000
RR - Reserve Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds		\$27,725,000	\$18,000,000	\$0	\$0	\$0	\$45,725,000
LOC - Commercial Paper		\$0	\$0	\$0	\$0	\$0	\$0
SRF - State Revolving Fund Loans		\$0	\$0	\$0	\$0	\$0	\$0
WCA - Water Capital Account		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000	\$3,851,000
REV - Rate Revenue		\$38,043,500	\$45,188,500	\$41,764,000	\$37,944,500	\$37,056,000	\$199,996,500
REVENUE TOTAL		\$72,908,500	\$70,343,500	\$48,934,000	\$45,129,500	\$44,257,000	\$281,572,500

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:

- Expansion Related and Replacement & Rehabilitation Projects:
FY 2021 is obtained from the 2021 Proposed Budget for R&R projects. Expansion projects require additional funding therefore not included in the budget.
- FY 2022 to FY 2025 are from the FY 2019 Impact Fee Rate Study.
- Department Capital:
FY 2021 is obtained from the 2021 Proposed Budget, split 50/50 between Water and Wastewater.
FY 2022 to FY 2025 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).
- Debt Service:
All years are obtained from the Collier County Water - Sewer District Financial Statements and Other Reports, including Summary of Debt Service requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
- Reserve for Contingencies -- Replacement and Rehabilitation Projects:
As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
FISCAL YEARS 2021-2025

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	TOTAL
TBD	County Landfill Cell Construction		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE									
			FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL	TOTAL
	LTF - Landfill Tipping Fees		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	REVENUE TOTAL		\$0	\$0	\$0	\$0	\$0	\$0	\$0

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells. Landfill cells vary in size and disposal capacity.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
 FISCAL YEARS 2021-2025

WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS		CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
	Debt Service (CAFR)		\$11,443,500	\$10,849,500	\$9,053,000	\$9,050,500	\$8,767,000	\$49,163,500
	Expansion Related Projects		\$10,225,000	\$10,000,000	\$0	\$5,000,000	\$0	\$25,225,000
	Replacement & Rehabilitation Projects		\$36,300,000	\$45,940,000	\$38,035,000	\$32,985,000	\$32,875,000	\$186,135,000
	Departmental Capital		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000	\$3,851,000
	Reserve for Contingencies -- Replacement & Rehabilitation Projects		\$3,630,000	\$4,594,000	\$3,804,000	\$3,299,000	\$3,288,000	\$18,615,000
	WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECT TOTAL		\$62,338,500	\$72,138,500	\$51,662,000	\$51,119,500	\$45,731,000	\$282,989,500

REVENUE KEY - REVENUE SOURCE		FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	TOTAL
SIF - Wastewater System Development Fees / Impact Fees		\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000
RR - Reserve Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0	\$0
B - Bond Proceeds		\$10,225,000	\$15,050,000	\$0	\$5,000,000	\$0	\$30,275,000
SRE - State Revolving Fund Loans		\$0	\$0	\$0	\$0	\$0	\$0
LOC - Commercial Paper, Additional Senior Lien		\$0	\$0	\$0	\$0	\$0	\$0
SCA - Wastewater Capital Account - Transfers		\$740,000	\$755,000	\$770,000	\$785,000	\$801,000	\$3,851,000
REV - Rate Revenue		\$44,773,500	\$49,733,500	\$44,292,000	\$38,734,500	\$38,330,000	\$215,863,500
REVENUE TOTAL		\$62,338,500	\$72,138,500	\$51,662,000	\$51,119,500	\$45,731,000	\$282,989,500

NOTE: Collier County has adopted a two-year Concurrency Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrency Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

DATA SOURCES:

- Expansion Related and Replacement & Rehabilitation Projects:
FY 2021 is obtained from the 2021 Proposed Budget for R&R projects. Expansion projects require additional funding and therefore not included in the budget.
- FY 2022 to FY 2025 are estimated project costs.
- Department Capital:
FY 2021 is obtained from the 2021 Proposed Budget, split 50/50 between Water and Wastewater.
FY 2022 to FY 2025 are 2% increases over each fiscal year (pursuant to CPI adjustments per current Board policy).
- Debt Service:
All years are obtained from the current Collier County Water - Sewer District Financial Statements and Other Reports including Summary of Debt Service Requirements to maturity. Total Debt Service amount is split 50/50 between Water and Wastewater.
- Reserve for Contingencies -- Replacement and Rehabilitation Projects:
As per Florida Statutes, reserve for contingencies is up to 10% of expenses.

EXHIBIT "A"
COLLIER COUNTY SCHEDULE OF CAPITAL IMPROVEMENTS
COST AND REVENUE SUMMARY TABLE
FISCAL YEARS 2021-2025

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

<u>Projects</u>	<u>Revenue Sources</u>	<u>Expenditure</u>	<u>Revenue Amount</u>	<u>Total</u>
ARTERIAL & COLLECTOR ROADS AND BRIDGE PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$77,460,000	
	Unfunded Needs		\$100,137,000	
	GA - Gas Tax Revenue		\$118,552,000	
	GR - Grants / Reimbursements		\$40,968,000	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$534,000	
	GF - General Fund (001)		\$46,623,000	
	Supplemental OMB Funding		\$190,843,000	
	IN - Interest Revenue - Fund 313 Gas Tax & Impact Fees		\$5,245,000	
	TR - MSTU General Fund 111 Transfers		\$15,000,000	
	CF - Carry Forward - 313-310 Impact Fees		\$59,834,000	
	REIM - Expected FEMA Reimbursement		\$8,500,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		-\$10,062,000	\$653,634,000
Less Expenditures:		\$653,634,000		\$653,634,000
			Balance	\$0
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees/Impact Fees		\$32,000,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$45,725,000	
	LOC - Commercial Paper 1		\$0	
	SRF - State Revolving Fund Loans		\$0	
	WCA - Water Capital Account		\$3,851,000	
	REV - Rate Revenue		\$199,996,500	\$281,572,500
Less Expenditures:		\$281,572,500		\$281,572,500
			Balance	\$0
WASTEWATER COLLECTION & TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees/Impact Fees		\$33,000,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$30,275,000	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account, Transfers		\$3,851,000	
	REV - Rate Revenue		\$215,863,500	\$282,989,500
Less Expenditures:		\$282,989,500		\$282,989,500
			Balance	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		\$0
			Balance	\$0
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$43,936,600	
	DIF - Deferred Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	IN - Interest		\$2,560,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$10,835,400	
	TR - Added Value through Commitments, Leases & Transfers		\$0	
	GF - General Fund (001)		\$0	\$57,332,000
Less Expenditures:		\$30,156,100		\$57,332,000
			Balance	\$27,175,900
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$0	
	GF - New Budget from Fund (310)		\$0	
	Debt Funding		\$60,000,000	
	Unmet Funding Needs		\$53,938,000	
	CF - Available Cash for Future Projects/Payment of Debt Service		\$2,919,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		-\$17,000	
	IN - Interest Revenue		\$295,000	
	GF - New Budget from Fund (101)		\$24,345,000	
	GF - New Budget from Fund (111)		\$15,625,000	\$157,105,000
Less Expenditures:		\$157,105,000		\$157,105,000
			Balance	\$0
TOTAL PROJECTS		\$1,405,457,100	TOTAL REVENUE SOURCES	\$1,432,633,000

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

ARTERIAL AND COLLECTOR ROAD PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
		SCHEDULE NOTES	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030		TOTAL
	Contingency/		\$0	\$0	\$0	\$0	\$0		\$0
Sbtl	Operations Improvements/Programs		\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000	\$15,000,000		\$75,000,000
Sbtl	Transfers to Other Funds		\$12,500,000	\$12,500,000	\$12,500,000	\$12,500,000	\$12,500,000		\$62,500,000
	Impact Fee Refunds		\$250,000	\$250,000	\$250,000	\$250,000	\$250,000		\$1,250,000
	Capacity Improvement Projects - All Phases		\$40,710,000	\$40,710,000	\$10,710,000	\$10,710,000	\$10,710,000		\$113,550,000
	Debt Service Payments		\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000	\$14,600,000		\$73,000,000
ARTERIAL AND COLLECTOR ROAD PROJECT TOTALS			\$83,060,000	\$83,060,000	\$53,060,000	\$53,060,000	\$53,060,000		\$325,300,000

REVENUE KEY - REVENUE SOURCE									
		FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL		
TX - Sales Tax		\$30,000,000	\$30,000,000	\$0	\$0	\$0	\$60,000,000		
IF - Impact Fees / COA Revenue		\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$15,500,000	\$77,500,000		
GA - Gas Tax Revenue		\$24,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$24,000,000	\$120,000,000		
GR - Grants / Reimbursements		\$0	\$0	\$0	\$0	\$0	\$0		
AC - Available Cash for Future Projects/Payment of Debt Service		\$0	\$0	\$0	\$0	\$0	\$0		
TR - Transfers		\$0	\$0	\$0	\$0	\$0	\$0		
GF - General Fund (001)		\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$12,560,000	\$62,800,000		
DC - Developer Contribution Agreements / Advanced Reimbursements		\$0	\$0	\$0	\$0	\$0	\$0		
IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees)		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000		
RR - Revenue Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0	\$0		
REVENUE TOTAL		\$83,060,000	\$83,060,000	\$53,060,000	\$53,060,000	\$53,060,000	\$325,300,000		

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

PARKS AND RECREATION FACILITIES PROJECTS									
		CAPITAL IMPROVEMENT	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE	\$ VALUE
PROJECT No.	PROJECT	SCHEDULE NOTES	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL	
			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	PARKS AND RECREATION FACILITIES PROJECT TOTALS		\$0	\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE									
			FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL	
	IF - Impact Fees / COA Revenue		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	GR - Grants / Reimbursements		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	GF - General Fund (001)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	REVENUE TOTAL		\$0	\$0	\$0	\$0	\$0	\$0	\$0

NOTE: All Community Park Land and Regional Park Land transactions are being facilitated through interdepartmental transfers exchanging land holdings for park lands, or using other methods not involving expenditure of capital funds. These transactions represent changes to the value of land holdings only.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

STORMWATER MANAGEMENT SYSTEM PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT	FY 2026	\$ AMOUNT	FY 2027	\$ AMOUNT	FY 2028	\$ AMOUNT
		SCHEDULE NOTES							
	Stormwater Management System Projects	Continuous		\$25,365,000		\$25,365,000		\$25,365,000	
	Stormwater Management Operations & Reserves			\$35,000		\$35,000		\$35,000	
	STORMWATER MANAGEMENT SYSTEM PROJECT TOTALS			\$25,400,000		\$25,400,000		\$25,400,000	
									TOTAL
									\$126,825,000
									\$175,000
									\$127,000,000

REVENUE KEY - REVENUE SOURCE									
	GR - Grants / Reimbursements		FY 2026		FY 2027		FY 2028		FY 2029
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0		\$0		\$0		\$0
	CRA - Community Redevelopment Area / Municipal Service Taxing Unit		\$0		\$0		\$0		\$0
	GF - General Fund (001)		\$25,400,000		\$25,400,000		\$25,400,000		\$25,400,000
	REVENUE TOTAL		\$25,400,000		\$25,400,000		\$25,400,000		\$25,400,000
									TOTAL
									\$0
									\$0
									\$0
									\$127,000,000
									\$127,000,000

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

POTABLE WATER SYSTEM PROJECTS													
PROJECT NO.	PROJECT	CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
		SCHEDULE NOTES	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030						
	Expansion Related Projects		\$5,833,000	\$0	\$14,667,000	\$37,400,000	\$0						\$57,900,000
	Replacement & Rehabilitation Projects		\$35,635,000	\$36,955,000	\$36,585,000	\$36,985,000	\$36,985,000						\$183,145,000
	Debt Service		\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$7,310,000						\$37,453,000
	Departmental Capital		\$817,000	\$833,000	\$850,000	\$867,000	\$884,000						\$4,251,000
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,564,000	\$3,696,000	\$3,659,000	\$3,699,000	\$3,699,000						\$18,317,000
	POTABLE WATER SYSTEM PROJECT TOTALS		\$53,839,000	\$48,655,500	\$62,708,500	\$86,985,000	\$48,878,000						\$301,066,000

REVENUE KEY - REVENUE SOURCE													
				FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL				
	WIF - Water System Development Fees			\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$6,400,000	\$32,000,000				
	RR - Revenue Reduction (less 5% required by law)			\$0	\$0	\$0	\$0	\$0	\$0				
	B - Bond Proceeds			\$5,833,000	\$0	\$14,667,000	\$37,400,000	\$0	\$57,900,000				
	SRF - State Revolving Loan Funds			\$0	\$0	\$0	\$0	\$0	\$0				
	WCA - Water Capital Account			\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000				
	REV - Rate Revenue			\$40,789,000	\$41,422,500	\$40,791,500	\$42,318,000	\$41,594,000	\$206,915,000				
	REVENUE TOTAL			\$53,839,000	\$48,655,500	\$62,708,500	\$86,985,000	\$48,878,000	\$301,066,000				

NOTE: Figures provided for years six through ten are estimates of revenues necessary to support project costs but do not constitute a long term concurrency system. Revenue sources are estimates only; both the mix of sources and amounts will change when a rate study is conducted.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

SOLID WASTE DISPOSAL FACILITIES PROJECTS									
			CAPITAL IMPROVEMENT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT	\$ AMOUNT
PROJECT No.	PROJECT		SCHEDULE NOTES	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL
TBD	County Landfill Cell Construction			\$0	\$0	\$0	\$0	\$0	\$0
	SOLID WASTE DISPOSAL FACILITIES PROJECT TOTALS			\$0	\$0	\$0	\$0	\$0	\$0

REVENUE KEY - REVENUE SOURCE									
	LTF - Landfill Tipping Fees			FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	TOTAL
	REVENUE TOTAL			\$0	\$0	\$0	\$0	\$0	\$0

NOTE: Collier County has adopted a two-year Concurrence Management System. Figures provided for years three, four and five of this Schedule of Capital Improvements are not part of the Concurrence Management System but must be financially feasible with a dedicated revenue source or an alternative revenue source if the dedicated revenue source is not realized. Figures provided for years six through ten of the Schedule of Capital Improvements are estimates of revenues versus project costs but do not constitute a long term concurrence system.

* Pursuant to the Landfill Operating Agreement (LOA) with Waste Management, Inc. of Florida (WMIF), landfill cell construction is scheduled and guaranteed by WMIF over the life of the Collier County Landfill. Collier County landfill expansion costs are paid for by WMIF through agreed upon Collier County landfill tipping fees. By contract under the LOA, WMIF will construct any future required cells.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
 FISCAL YEARS 2026-2030

WASTEWATER TREATMENT SYSTEM PROJECTS									
PROJECT No.	PROJECT	CAPITAL IMPROVEMENT SCHEDULE NOTES	\$ AMOUNT FY 2026	\$ AMOUNT FY 2027	\$ AMOUNT FY 2028	\$ AMOUNT FY 2029	\$ AMOUNT FY 2030	\$ AMOUNT TOTAL	
	Expansion Related Projects		\$1,333,000	\$103,000,000	\$14,667,000	\$0	\$0	\$119,000,000	
	Replacement & Rehabilitation Projects		\$33,897,000	\$33,240,000	\$40,203,000	\$32,870,000	\$33,370,000	\$173,580,000	
	Departmental Capital		\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000	
	Debt Service		\$7,990,000	\$7,171,500	\$6,947,500	\$8,034,000	\$7,310,000	\$37,453,000	
	Reserve for Contingencies - Replacement & Rehabilitation Projects		\$3,390,000	\$3,324,000	\$4,020,000	\$3,287,000	\$3,337,000	\$17,358,000	
	WASTEWATER TREATMENT SYSTEM PROJECT TOTALS		\$47,427,000	\$147,568,500	\$66,687,500	\$45,058,000	\$44,901,000	\$351,642,000	

REVENUE KEY - REVENUE SOURCE									
	SIF - Wastewater System Development Fees / Impact Fees		\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$6,600,000	\$33,000,000	
	RR - Revenue Reduction (less 5% required by law)		\$0	\$0	\$0	\$0	\$0	\$0	
	B - Bond Proceeds		\$2,000,000	\$103,000,000	\$22,000,000	\$0	\$0	\$127,000,000	
	SRF - State Revolving Fund Loans		\$0	\$0	\$0	\$0	\$0	\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	\$0	\$0	\$0	\$0	\$0	
	SCA - Wastewater Capital Account - Transfers		\$817,000	\$833,000	\$850,000	\$867,000	\$884,000	\$4,251,000	
	REV - Rate Revenue		\$38,010,000	\$37,135,500	\$37,237,500	\$37,591,000	\$37,417,000	\$187,391,000	
	REVENUE TOTAL		\$47,427,000	\$147,568,500	\$66,687,500	\$45,058,000	\$44,901,000	\$351,642,000	

NOTE: Figures provided for years six through ten are estimates of revenues versus project costs but do not constitute a long-term concurrency system. Revenue sources are estimates only, both the mix of sources and amounts will change when a rate study is conducted.

APPENDIX H
FUTURE COSTS AND REVENUES BY TYPE OF PUBLIC FACILITY
COST AND REVENUE SUMMARY TABLE
FISCAL YEARS 2026-2030

The table below itemizes the types of public facilities and the sources of revenue. The "Revenue Amount" column contains the 5-Year amount of facility revenues. The right column is a calculation of expenses versus revenues for each type of public facility. All deficits are accumulated as a subtotal. The subtotal deficit is the source of additional revenue utilized by Collier County to fund the deficit in order to maintain the levels of service standards as referenced in the Capital Improvement Element.

Projects	Revenue Sources	Expenditure	Revenue Amount	Total
ARTERIAL AND COLLECTOR ROAD PROJECTS				
Revenues:	IF - Impact Fees / COA Revenue		\$77,500,000	
	GA - Gas Tax Revenue		\$120,000,000	
	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	TR - Transfers		\$0	
	GF - General Fund (001)		\$62,800,000	
	DC - Developer Contribution Agreements / Advanced		\$0	
	IN - Interest - Fund 313 (Gas Tax & Interest Impact Fees		\$5,000,000	
	TX - Gas Tax		\$60,000,000	\$325,300,000
Less Expenditures:		\$325,300,000		\$325,300,000
			Balance	\$0
POTABLE WATER SYSTEM PROJECTS				
Revenues:	WIF - Water System Development Fees		\$32,000,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$57,900,000	
	SRF - State Revolving Fund Loans		\$0	
	WCA - Water Capital Account		\$4,251,000	
	REV - Rate Revenue		\$206,915,000	\$301,066,000
Less Expenditures:		\$301,066,000		\$301,066,000
			Balance	\$0
WASTEWATER TREATMENT SYSTEM PROJECTS				
Revenues:	SIF - Wastewater System Development Fees		\$33,000,000	
	RR - Revenue Reduction (<i>less 5% required by law</i>)		\$0	
	B - Bond Proceeds		\$127,000,000	
	SRF - State Revolving Fund Loans		\$0	
	LOC - Commercial Paper, Additional Senior Lien		\$0	
	SCA - Wastewater Capital Account		\$4,251,000	
	REV - Rate Revenue		\$187,391,000	\$351,642,000
Less Expenditures:		\$351,642,000		\$351,642,000
			Balance	\$0
SOLID WASTE DISPOSAL FACILITIES PROJECTS				
Revenues:	LTF - Landfill Tipping Fees		\$0	\$0
Less Expenditures:		\$0		\$0
			Balance	\$0
PARKS & RECREATION FACILITIES PROJECTS				
Revenues:	IF - Impact Fees		\$0	
	GR - Grants / Reimbursements		\$0	
	GF - General Fund (001)		\$0	\$0
Less Expenditures:		\$0		\$0
			Balance	\$0
STORMWATER MANAGEMENT SYSTEM PROJECTS				
Revenues:	GR - Grants / Reimbursements		\$0	
	AC - Available Cash for Future Projects/Payment of Debt Service		\$0	
	CRA - Community Redevelopment Area/Municipal Service Taxing		\$0	
	GF - General Fund (001)		\$127,000,000	\$127,000,000
Less Expenditures:		\$127,000,000		\$127,000,000
			Balance	\$0
TOTAL PROJECTS		\$1,105,008,000	TOTAL REVENUE SOURCES	\$1,105,008,000