



Project Name: Grand Harbor Field Review
Project Location: Grand Harbor, Vero Beach, Florida
Project Number: 147699000
Date of Study: Summer 2019

Category	Sub Category	No.	Item	Unit	Cost per Unit	Present Age	Typical Life	Est. Rem. Life	Total cost	Reserve Contribution Per Yr	Require Reserves 1/1/2021
Bridges and Tunnels	Bridge #1	bt5	Bridge #1 Repair/ Replace	EA	\$800,000	0	50	50	\$800,000	\$16,000	\$0
	Bridge #2	bt6	Bridge # 2 Repair/Replace	EA	\$1,000,000	30	50	20	\$1,000,000	\$20,000	\$620,000
Bridges and Tunnels Total									\$1,800,000	\$36,000	\$620,000
Buildings	IRB	bld4	East Guardhouse Roof	SF	\$18	29	40	11	\$14,670	\$367	\$11,003
		bld5	West Guardhouse Roof	SF	\$18	15	40	25	\$21,600	\$540	\$8,640
Buildings Total									\$36,270	\$907	\$19,643
Conservation Easement	Hydrology	est4	Flushing Channel Repair 2 channels	CY	\$150	0	20	20	\$221,400	\$11,070	\$0
		est5	Flushing Channel Repair other 2 channels	CY	\$150	10	20	10	\$221,400	\$11,070	\$121,770
		est6	Water Courses Repair - Narrow	CY	\$150	0	25	25	\$1,827,900	\$73,116	\$0
		est7	Water Courses Repair - Wide	CY	\$150	0	25	25	\$7,752,300	\$310,092	\$0
Conservation Easement Total									\$10,023,000	\$405,348	\$121,770
Irrigation	Recycled Water Reservoir	irr3	Pond Liner Fabric Replacement	SF	\$2	0	35	35	\$180,000	\$5,143	\$0
		irr4	Sheet Piling Retaining Wall Repairs/Replacement	LF	\$250	31	50	19	\$300,000	\$6,000	\$192,000
		irr5	Wooden Facade Retaining Wall Repairs/Replacement	EA	\$70	0	25	25	\$84,000	\$3,360	\$0
Irrigation Total									\$564,000	\$14,503	\$192,000
Misc	Misc	misc3	River Village Pier Pier Replacement	LF	\$200	0	20	0	\$45,000	\$2,250	\$2,250
Misc Total									\$45,000	\$2,250	\$2,250
Right of Way	Guardrails	row13	Guardrails Repair/Replacement	LF	\$23	0	25	25	\$102,350	\$4,094	\$0
	Lighting	row19	Lighting Poles and Fixtures	EA	\$3,500	10	20	10	\$525,000	\$26,250	\$288,750
	Roadways	row14	Patching (1" Mill and Resurfacing)	SY	\$8	10	20	10	\$757,432	\$37,872	\$416,588
	Sidewalks	row11	Concrete Sidewalk (8'X5' Panels)	SY	\$30	20	30	10	\$409,890	\$13,663	\$286,923
Right of Way Total									\$1,794,672	\$81,879	\$992,261



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Security	Gates	sec3	7 Electric Bar Gates	EA	\$10,000	15	25	10	\$70,000	\$2,800	\$44,800
		sec4	45th Street Gate	EA	\$12,000	15	25	10	\$12,000	\$480	\$7,680
Security Total									\$82,000	\$3,280	\$52,480
Stormwater Management	Exfil Trenches	swm10	Exfiltration Trenches	LF	\$125	0	30	30	\$111,250	\$3,708	\$3,708
	Ponds	swm11	Storm Pipe Lining	LF	\$200	20	50	30	\$1,852,000	\$37,040	\$777,840
		swm9	Pond Bank Restoration (Single Bag)	LF	\$50	0	30	30	\$2,705,350	\$90,178	\$0
		swm9.1	Pond Bank Restoration (Double Bag)	LF	\$80	0	30	30	\$176,000	\$5,867	\$0
Stormwater Management Total									\$4,844,600	\$136,793	\$781,548
Walls	Bulkheads	wal3	Bulkheads Repair/Replacement	EA	\$7,500	15	20	5	\$30,000	\$1,500	\$24,000
	River Village Retaining Wall (Retaining Wall #5)	wal5	River Village Retaining Wall Wooden Facade Replacement	LF	\$70	0	30	30	\$23,100	\$770	\$770
		wal6	River Village Retaining Wall Sheet Piling Replacement	LF	\$250	20	50	30	\$82,500	\$1,650	\$34,650
	Seawalls (Retaining Walls #1-#2)	wal4	Seawalls Repairs/Replacement	LF	\$500	15	40	25	\$212,500	\$5,313	\$85,000
Walls Total									\$348,100	\$9,233	\$144,420
Grand Total									\$19,537,642	\$690,192	\$2,926,371