



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	Reference	Unit	Quantity	Cost per Unit	Total Cost
Bridges and Tunnels	Bridge #1	bt1	Replace Bridge #1	16.0 GRAND HARBOR BRIDGE #1 and #2	EA	0	\$800,000	\$0
	Bridge #2	bt2	Bridge #2 Repairs	16.0 GRAND HARBOR BRIDGE #1 and #2	SF	1	\$1,000	\$1,000
	Tunnels	bt3	Tunnel Drainage Improvements (4)	19.0 GRAND HARBOR PEDESTRIAN TUNNELS #1 THROUGH #4	SF	500	\$7	\$3,500
		bt4	General Tunnel Repairs	19.0 GRAND HARBOR PEDESTRIAN TUNNELS #1 THROUGH #4	EA	4	\$750	\$3,000
Bridges and Tunnels Total								\$7,500
Buildings	53rd St	bld6	Guard Shack Repairs/Replacement	Repairs not economical since remaining life is 1 year. Replace	EA	1	\$15,000	\$15,000
	IRB	bld1	Grand Harbor Guard House Repairs	17.0 GRAND HARBOR GUARD HOUSES #1 AND #2	EA	1	\$1,500	\$1,500
		bld2	The Falls Guard House Repairs	17.0 GRAND HARBOR GUARD HOUSES #1 AND #2	EA	1	\$1,500	\$1,500
Buildings Total								\$18,000
Conservation Easement	Hydrology	est2	Flushing Channel Repairs - Two Channels	NOT COMPLIANT WITH CONSERVATION EASEMENT OR0922 PG 2192	CY	1,476	\$150	\$221,400
		est3	Water Courses - Narrow	NOT COMPLIANT WITH CONSERVATION EASEMENT OR0922 PG 2192	CY	11,424	\$150	\$1,713,600
		est4	Water Courses - Wide	NOT COMPLIANT WITH CONSERVATION EASEMENT OR0922 PG 2192	CY	29,992	\$150	\$4,498,800
	Plant Removal	est1	Invasive Species Removal - Brazilian Pepper	NOT COMPLIANT WITH CONSERVATION EASEMENT OR0922 PG 2192	DAYS	60	\$5,000	\$300,000
Conservation Easement Total								\$6,733,800
Irrigation	Recycled Water Reservoir	irr1	Pond Liner Fabric Replacement	Needs to be replaced within 5 years and the wood facia requires replacement now. The liner should be replaced now and properly attached to the steel sheet pile behind the wood facia	SF	90,000	\$2	\$180,000
	Recycled Water Reservoir	irr2	Wooden Façade Replacement	18.0 GRAND HARBOR RETAINING WALLS #1 THROUGH #4	EA	1,200	\$70	\$84,000
Irrigation Total								\$264,000



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Landscaping	Invasive Species Removal	Lsc12	The Falls at Grand Harbor Landscape - Brazilian Pepper	14.0 THE FALLS AT GRAND HARBOR LANDSCAPE	DAYS	2	\$5,000	\$10,000
		Lsc2	45th Street Perimeter Buffer Vines	9.0 GRAND HARBOR 45th STREET PERIMETER BUFFER	LF	600	\$10	\$6,000
		Lsc4	Indian River Boulevard Perimeter Buffer - Vines	10.0 GRAND HARBOR/ OAK HARBOR INDIAN RIVER BOULEVARD PERIMETER BUFFER	LF	500	\$10	\$5,000
	Fence Repair	Lsc5	Indian River Boulevard Perimeter Buffer Perimeter	10.0 GRAND HARBOR/ OAK HARBOR INDIAN RIVER BOULEVARD PERIMETER BUFFER	LF	640	\$15	\$9,600
	Irrigation Pumps and Controllers	irr7	Indian River Boulevard Perimeter Buffer Irrigation Equipment Repairs	10.0 GRAND HARBOR/ OAK HARBOR INDIAN RIVER BOULEVARD PERIMETER BUFFER	EA	1	\$200	\$200
	Tree/Shrub Replacement and Pruning	Lsc1	45th Street Perimeter Buffer	9.0 GRAND HARBOR 45th STREET PERIMETER BUFFER	EA	6	\$100	\$600
		Lsc11	The Falls at Grand Harbor Landscape Tree/Shrub Replacement and Pruning	14.0 THE FALLS AT GRAND HARBOR LANDSCAPE	EA	37	\$287	\$10,619
		Lsc3	Indian River Boulevard Perimeter Buffer	10.0 GRAND HARBOR/ OAK HARBOR INDIAN RIVER BOULEVARD PERIMETER BUFFER	EA	45	\$150	\$6,750
		Lsc6	River Club/Harbor Village R/W Landscape	11.0 RIVER CLUB/ HARBOR VILLAGE R/W LANDSCAPE	EA	11	\$269	\$2,959
		Lsc7	Grand Harbor R/W Landscape	12.0 GRAND HARBOR R/W LANDSCAPE	EA	7	\$95	\$665
		Lsc8	River Village Tract C Stormwater Buffer Landscape	13.0 RIVER VILLAGE TRACT C STORMWATER BUFFER LANDSCAPE	EA	4	\$250	\$1,000
Landscaping Total								\$53,393
Misc	Misc	misc1	River Village Pier Repair	20.0 GRAND HARBOR MISCELLANEOUS STRUCTURES	LF	225	\$200	\$45,000
		misc2	Main Fountain Replace Lighting System and General Repairs	20.0 GRAND HARBOR MISCELLANEOUS STRUCTURES	EA	30	\$300	\$9,000
Misc Total								\$54,000



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Right of Way	Curbs and Gutters	row8	Replace Curbs and Gutters in 12 locations	4.0 GRAND HARBOR ROADWAYS, CURBS, AND GUTTERS Replace 12 chipped and cracked items	LF	155	\$25	\$3,875
	Guardrails	row3	Replace Guardrails	3.0 GRAND HARBOR SIDEWALKS, GUARDRAILS, AND BULKHEADS 13 items	LF	4,450	\$23	\$102,350
	Lighting	row5	Replace Lighting Fixtures and bury wires	6.0 GRAND HARBOR SITE LIGHTING	EA	14	\$1,000	\$14,000
	Roadways	row10	Full replacement (Subgrade Included) in 7 locations	4.0 GRAND HARBOR ROADWAYS, CURBS, AND GUTTERS Repair 7 locations in poor condition	SY	111	\$45	\$4,995
	Sidewalks	row1	Replace 8x5 Panels after removing any tree roots causing the upheaval of the panels.	3.0 GRAND HARBOR SIDEWALKS, GUARDRAILS, AND BULKHEADS item 14	EA	102	\$280	\$28,560
		row2	Replace Asphalt Sidewalk with a poured concrete sidewalk	3.0 GRAND HARBOR SIDEWALKS, GUARDRAILS, AND BULKHEADS	SY	1,452	\$30	\$43,560
	Signs	row6	Post Replacement (9)	5.0 GRAND HARBOR SIGNAGE	EA	9	\$150	\$1,350
		row7	Sign Replacement (30)	5.0 GRAND HARBOR SIGNAGE	EA	30	\$250	\$7,500
Right of Way Total								\$206,190
Security	Equipment	sec1	Immediate Camera Replacement	7.0 GRAND HARBOR SITE SECURITY	EA	15	\$200	\$3,000
Security Total								\$3,000



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Stormwater Management	Exfil Trenches	swm8	St Andrews Exfiltration Trench Replacement	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	LF	890	\$125	\$111,250
	Ponds	swm1	Pond Bank Restoration (Single Bag)	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	LF	54,107	\$50	\$2,705,350
		swm1.1	Pond Bank Restoration (Double Bag)	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	LF	2,200	\$80	\$176,000
		swm3	St Andrews Pond Rebuild	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	EA	1	\$20,000	\$20,000
		swm4	Storm Pipe Lining	8.0 GRAND HARBOR PONDS	LF	80	\$200	\$16,000
		swm5	Storm Pipe cutoff and replace	8.0 GRAND HARBOR PONDS	EA	3	\$8,600	\$25,800
		swm6	Littoral Zone Planting	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	SF	719,393	\$5	\$3,596,965
		swm7	Replace the aeration system	Not compliant with SJRWMD 18679 Permit Condition and FEDP 311043029 Permit Condition	EA	1	\$7,500	\$7,500
Stormwater Management Total								\$6,658,865
Walls	Bulkheads	wal1	Replace Bulkhead #3	3.0 GRAND HARBOR SIDEWALKS, GUARDRAILS, AND BULKHEADS 13 items	EA	1	\$7,500	\$7,500
	River Village Retaining Wall (Retaining Wall #5)	wal2	Retaining Wall #3 Wooden Façade Replair	18.0 GRAND HARBOR RETAINING WALLS #1 THROUGH #4	LF	330	\$70	\$23,100
Walls Total								\$30,600

Grand Total

\$14,029,348