

**City of Madeira Beach  
Area 9 Roadway & Stormwater Improvements  
Design Services**

**Proposed Labor Breakdown**

Task No.	Description	Sr. Project Manager	Sr. Project Engineer	Project Engineer	Sr. CAD Operator	Admin.	Hours	Total
		\$ 221.26	\$ 183.98	\$ 161.49	\$ 121.64	\$ 72.31		
<b>1</b>	<b>Data Collection / Preliminary Plan Preparation</b>							
1.01	Review Available Data / Perform Field Visit to Assess Existing Conditions	0	1	4	0	0	5	\$ 829.94
1.02	Survey Scoping / Review of Survey & Incorporation of Findings	1	2	4	4	1	12	\$ 1,794.05
1.03	Watershed Model Refinement / Stormwater Level of Service Analysis / Pipe Sizing	4	16	60	8	0	88	\$ 14,491.24
1.04	Basesheet Preparation / Typical Section Development / Preliminary Private Utility Coordination	2	8	16	40	2	68	\$ 9,508.42
1.05	Preparation of Roadway Plan & Profile Plan Sheets	8	24	64	80	0	176	\$ 26,252.16
1.06	Preparation of Sidewalk Layout / Connection to Existing Sidewalk System	2	12	24	32	0	70	\$ 10,418.52
1.07	Identification of Stormwater System Corridors & Preliminary Alignments	2	12	24	48	0	86	\$ 12,364.76
1.08	Prepare Preliminary Opinion of Probable Cost	1	8	16	0	2	27	\$ 4,421.56
1.09	Preliminary Engineering Report Preparation / Attend Design Review Meeting / Respond to City Commentary / Revise Preliminary Engineering Report (As Needed)	4	12	40	16	4	76	\$ 11,787.88
							<b>Task 1 Subtotal</b>	<b>\$ 91,868.53</b>
<b>2</b>	<b>60% Plan Preparation</b>							
2.01	Prepare Formal Responses to City Commentary / Design Plan Advancement (60%)	2	8	24	40	2	76	\$ 10,800.34
2.02	Attend Pre-Application Meetings (SWFWMD / USACOE)	0	2	2	0	0	4	\$ 690.94
2.03	Coordination with Geotechnical Subconsultant / Incorporation of Findings	0	4	24	8	1	37	\$ 5,657.11
2.04	Coordination with SUE Subconsultant / Incorporation of Findings	0	8	24	16	1	49	\$ 7,366.15
2.05	Coordination with Environmental Subconsultant / Assessment of Surface Water Impacts / Incorporation of Findings	0	2	24	2	1	29	\$ 4,559.31
2.06	Coordination with Rendering Subconsultant for Existing & Proposed Roadway Rendering Imagery	1	2	8	16	1	28	\$ 3,899.69
2.07	Preparation of Control Plan	1	2	4	4	0	11	\$ 1,721.74
2.08	Preparation of Demolition, Erosion & Sediment Control Plan	1	2	8	16	0	27	\$ 3,827.38
2.09	Preparation of Roadway Cross Sections	4	24	80	60	0	168	\$ 25,518.16
2.10	Preparation of Driveway Profiles / Limits of Driveway Reconstruction	2	16	40	24	0	82	\$ 12,765.16
2.11	Stormwater Modeling Advancement (60%)	1	8	24	0	0	33	\$ 5,568.86
2.12	Seawall Structural Design Incl. Seawall Cap & Tieback System	2	8	24	16	0	50	\$ 7,736.36
2.13	Supplemental Plan Sheet Preparation / General & Special Detailing (60%)	1	8	24	24	0	57	\$ 8,488.22
2.14	Quantity Itemization / Develop Pay Items / Opinion of Probable Cost (60%)	1	8	24	0	2	35	\$ 5,713.48
2.15	Preparation of "Front Ends" & Technical Specifications Incl. Measurement & Payment (60%)	1	12	40	0	1	54	\$ 8,960.93
2.16	Preparation of Technical Memorandum Discussing Design Assumptions (60%)	1	8	16	0	2	27	\$ 4,421.56
2.17	Community Outreach with Public Meeting to Outline Proposed Improvements with Plans and Maps	2	8	16	4	2	32	\$ 5,129.38
2.18	Attend Review Meeting with City Personnel	2	2	0	0	0	4	\$ 810.48
							<b>Task 2 Subtotal</b>	<b>\$ 123,635.25</b>
<b>3</b>	<b>90% Plan Preparation</b>							
3.01	Finalize Stormwater Evaluation / Prepare Stormwater Narrative	1	8	24	0	2	35	\$ 5,713.48
3.02	Finalize Seawall Structural Design	1	4	16	12	0	33	\$ 5,000.70
3.03	Prepare Formal Responses to City Commentary / Design Plan Revisions (As Needed)	1	4	16	16	2	39	\$ 5,631.88
3.04	Prepare & Submit SWFWMD Permit Application	0	4	16	0	4	24	\$ 3,609.00
3.05	Prepare & Submit USACOE Permit Application	0	4	24	0	4	32	\$ 4,900.92
3.06	Prepare & Submit Pinellas County Water and Navigation Permit	0	4	16	0	4	24	\$ 3,609.00
3.07	Prepare Formal Responses to SWFWMD Permit Commentary / Design Plan Revisions (As Needed)	1	4	32	16	2	55	\$ 8,215.72
3.08	Prepare Formal Responses to USACOE Commentary / Design Plan Revisions (As Needed)	1	2	16	8	2	29	\$ 4,290.80
3.09	Prepare Formal Responses to Pinellas County Commentary / Design Plan Revisions (As Needed)	1	1	8	4	1	15	\$ 2,256.03
3.10	Design Plan Advancement (90%) Incl. Plan, Profile & Sections	2	4	16	32	0	54	\$ 7,654.76
3.11	Supplemental Plan Sheet Preparation / General & Special Detailing (90%)	2	4	12	24	0	42	\$ 6,035.68
3.12	Coordination with City on Temporary Construction Easement Acquisition / Preparation of Figures for Easement Limits	2	8	24	60	4	98	\$ 13,377.76
3.13	Community Outreach with Public Meeting to Outline Proposed Improvements with Plans and Maps (90%)	2	2	4	4	2	14	\$ 2,087.62
3.14	Quantity Itemization / Develop Pay Items / Opinion of Probable Cost (90%)	1	2	16	0	1	20	\$ 3,245.37
3.15	Preparation of "Front Ends" & Technical Specifications Incl. Measurement & Payment (90%)	1	2	16	0	1	20	\$ 3,245.37
3.16	Preparation of Technical Memorandum Discussing Design Assumptions (90%)	1	2	8	0	1	12	\$ 1,953.45
3.17	Attend Review Meeting with City Personnel	2	2	0	0	0	4	\$ 810.48
							<b>Task 3 Subtotal</b>	<b>\$ 81,638.02</b>
<b>4</b>	<b>Final Plan Preparation</b>							
4.01	Incorporation of City Commentary / Prepare Formal Responses	1	2	4	8	1	16	\$ 2,280.61
4.02	Finalize Private Utility Coordination	0	1	4	0	1	6	\$ 902.25
4.03	Finalize Roadway Plan & Profile / Cross Sections	1	4	8	24	0	37	\$ 5,168.46
4.04	Finalize Supplemental Plan Sheets	1	2	8	8	0	19	\$ 2,854.26
4.05	Finalize Quantity Itemizations / Develop Pay Items / Opinion of Probable Cost	1	4	8	0	1	14	\$ 2,321.41
4.06	Finalize "Front Ends" & Technical Specifications Incl. Measurement & Payment (Final)	1	4	8	0	1	14	\$ 2,321.41
4.07	Preparation of Technical Memorandum Identifying Design Assumptions (Final)	1	2	8	0	1	12	\$ 1,953.45
							<b>Task 4 Subtotal</b>	<b>\$ 17,801.85</b>
<b>5</b>	<b>Bidding Services</b>							
5.01	Attend Pre-Bid Meeting	1	1	0	0	0	2	\$ 405.24
5.02	Respond to Bidder-Placed RFIs / Perform Plan Revisions as Needed / Issue Addenda	2	8	16	8	1	35	\$ 5,543.63
5.03	Review Submitted Bids & Prepare Recommendations of Award / Conformed Package Preparation	1	2	8	4	1	16	\$ 2,440.01
							<b>Task 5 Subtotal</b>	<b>\$ 8,388.88</b>
<b>6</b>	<b>Construction Administration (CA) Services</b>							
6.01	Attend Pre-Construction Meeting	0	4	0	0	1	5	\$ 808.23
6.02	Review Shop Drawings	4	12	40	8	4	68	\$ 10,814.76
6.03	Progress Meeting Attendance / Construction Site Visits (12 Total)	4	8	24	0	0	36	\$ 6,232.64
6.04	Respond to Contractor-Placed Requests for Information / Contractor Coordination / Assistance in Dispute Resolution	8	24	40	24	4	100	\$ 15,853.80
6.05	Review Contractor-Submitted Pay Applications	4	10	36	0	4	54	\$ 8,827.72
6.06	Attend Final Walk Through / Punchlist Preparation & Resolution	0	2	8	0	2	12	\$ 1,804.50
6.07	Review Contractor-Submitted Record Drawings / Permit Closeout	1	4	16	8	2	31	\$ 4,658.76
							<b>Task 6 Subtotal</b>	<b>\$ 49,000.41</b>
							<b>Subtotal (Tasks 1-6)</b>	<b>\$ 372,332.94</b>
							<b>Survey Subconsultant</b>	<b>\$ 34,575.00</b>
							<b>Geotechnical Subconsultant</b>	<b>\$ 6,240.00</b>
							<b>Environmental Subconsultant</b>	<b>\$ 5,200.00</b>
							<b>SUE Subconsultant</b>	<b>\$ 12,500.00</b>
							<b>Rendering Subconsultant</b>	<b>\$ 5,400.00</b>
							<b>SWFWMD Permit Fee</b>	<b>\$ 2,491.50</b>
							<b>Pinellas County Permit Fee</b>	<b>\$ 755.00</b>
							<b>Total</b>	<b>\$ 439,494.44</b>

**PROPOSAL ASSUMPTIONS**

- 1 Seawall elevations will not be obtained at locations where existing stormwater piping is not present.
- 2 It is assumed that the City's goal is to eliminate the existing outfalls between homes by utilizing larger outfalls at City-owned property / right-of-way as recommended in the Watershed Management Plan. Preliminary Engineering Report will evaluate whether smaller piping could be used for the primary system by utilizing the existing outfalls as secondary outfalls for larger storm events.
- 3 Public utility design (potable water, reclaimed, sanitary sewer) is not proposed.
- 4 Temporary construction easement coordination includes providing locations and figures depicting temporary easement limits required for construction. City to perform individual resident outreach for temporary construction easement acquisition.
- 5 Per available plat information, it is assumed that the new seawall for the land bridge on Bay Point Drive would be installed within the City's right-of-way.
- 6 Construction duration is assumed to be 9 months (270 Days) with site visits to be performed once per month plus three (3) additional visits reserved for critical phases of construction, i.e., roadway grading, seawall construction, driveway restoration, etc.

