

DEP CONTRACT No. DC839
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

AMENDMENT 7

THIS AGREEMENT was entered into on the 5th day of August 2008, and amended by Amendment 1 on the 3rd day of February 2009, Amendment 2 on the 29th day of October 2009, Amendment 3 on the 8th day of August 2011, Amendment 4 on the 11th day of October 2012, Amendment 5 on the 29th day of July 2013 and Amendment 6 on the 13th day of February by and between the Florida Department of Environmental Protection with headquarters at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, a state agency ("Department"), the Pinellas County Board of County Commissioners, 315 Court Street, Clearwater, Florida 33756, a Florida local governmental entity ("County") and Humiston & Moore Engineers, P.A., with headquarters at 5679 Strand Court, Naples, Florida 34110, a Florida corporation ("Consultant").

RECITALS

WHEREAS, the Consultant was selected to provide Professional Services ("Coastal Engineering") according to the Consultants Competitive Negotiations Act, Chapter §287.055 Florida Statutes, for the Honeymoon Island Beach Restoration Project ("Project"). The Request for Statement of Qualifications No. RFSOQBDC 02 06/07 and the Consultant's response are included herein by reference.

WHEREAS, this Agreement was intended to be amended as the work progresses.

NOW, THEREFORE, this Agreement is hereby amended as follows:

1. The Contract Scope of Work shall be amended to include Attachment A-7, a Statement of Work for the completion of Phase II of the Project, which details the final tasks necessary to fulfill the Phase II construction administration and monitoring requirements.
2. The total contract price shall be reduced by \$66,667.34 from \$1,488,207.00 to \$1,421,539.66. This decrease is made possible by the reallocation of funds not used in completed Tasks as indicated in Table 1 of Attachment A-7
4. It is understood by the Department, County, and Consultant that in each and every respect the terms of this Agreement, except as amended hereby, shall remain unchanged and in full force and effect, and the same are hereby ratified, approved and confirmed, by the Department, County and Consultant as of the date of this Amendment.
5. It is understood and agreed by the Department, County and Consultant that this Amendment is binding upon the Department, County and Consultant, and their successors and assigns.

Attachments to this Amendment.

Attachment A-7, Pages 1-10: A 'Statement of Work'

The parties have caused this Amendment to be duly executed the day and year last written below.

FOR THE CONSULTANT

FOR THE DEPARTMENT


Authorized Person

Signature
Division of Recreation and Parks
Department of Environmental Protection

Brett D. Moore, P.E.
Print Name

Print Name

President
Title

Title

2-8-16
Date

Date

65-0262357
FEID Number

APPROVED AS TO FORM AND LEGALITY

Department Attorney

FOR THE COUNTY


Pinellas County Board of County Commissioners
County Commission Chair

3-17-16
Date



ATTEST

APPROVED AS TO FORM AND LEGALITY


County Clerk, Deputy Clerk


County Attorney

Attachment A-7
Statement of Work

Honeymoon Island Beach Restoration Project Phase II
Project Location: R7-R10.5 in Pinellas County, Florida
Contract Decrease \$66,667.34

NOTE: Excess funds in Sub-Task 2.1, 2.2, 3.1, 3.2, and 3.3A, B, D, E have been moved to Sub-Task 3.4. Shaded tasks must receive written authorization from the County and Department prior to moving forward. Tasks 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8 are new tasks from previously approved funds which have not been released.

TABLE 1				
TASK	Honeymoon Island Phase II	Budgeted	Price	Change
2.0	Design and Permitting			
2.1	Phase II Design and Permitting	\$74,996.00	\$74,961.48	-\$34.52
2.2	Tropical Storm Debby	\$11,800.00	\$10,363.37	-\$1,436.63
	Total: Design and Permitting	\$86,796.00	\$85,324.85	-\$1471.15
3.0	Construction Services			
3.1	Phase II Bid Services	\$15,270.00	\$12,383.13	-\$2,886.87
3.2	Phase II Pre-Construction Engineering Services	\$64,540.00	\$63,937.76	-\$602.24
3.3	Phase II T-Groin Construction Management	\$177,234.00	\$176,993.67	-\$240.33
3.4	Phase II Beach Fill and Dredging Management Services	\$67,646	\$72,846.59	+\$5,200.59
3.5	Post-Construction Monitoring	\$68,923.00	\$68,923.00	\$0.00
	Total: Construction Services	\$393,613.00	\$395,084.15	\$1,471.15
4.0	Monitoring			
4.1	2012 Monitoring	\$43,131.00	\$43,131.00	\$0.00
4.2	12-Month Monitoring		\$56,564.20	
4.3	24-Month Monitoring		\$50,956.04	
4.4	36-Month Monitoring		\$56,564.20	
4.5	60-Month Monitoring	\$346,534	\$56,421.48	-\$66,667.34
4.6	End of Project Coordination		\$23,479.49	
4.7	Rectified Aerial		\$7,135.44	
4.8	Post Storm Survey and FEMA assistance		\$28,745.81	
	Total: Monitoring	\$389,665	\$322,997.66	-\$66,667.34
	TOTAL Contract Change: For Humiston & Moore DC839 Amend-7	\$870,074	\$803,406.66	-\$66,667.34

Attachment A-7
Statement of Work

PERFORMANCE STANDARD:

All deliverables, reports, and monitoring results under Amendment 7 shall be submitted to the County and Division for review and comment. When comments are received affirming that the deliverable is acceptable, payment shall be authorized.

Construction: *The Deliverables must meet acceptance standards of the County, building code inspector, Joint Coastal Permit, or a combination of these, to assure all Project-related construction is completed to the desired specifications.*

ALL ASSIGNED WORK UNDER THIS AMENDMENT SHALL BE SUBJECT TO FINANCIAL CONSEQUENCES:

No payment shall be made for unsatisfactory deliverables. In the event that a deliverable is deemed unsatisfactory; the Consultant shall re-perform the services needed for submittal of a satisfactory deliverable, at no additional Price to the Department, within 15 consecutive days. If a satisfactory deliverable is not submitted within the specified timeframe, the Department may, at its sole discretion, terminate the Contract for failure to perform.

2.0 DESIGN AND PERMITTING

Includes Professional Services required for engineering and design, obtaining environmental permits and other authorizations and the preparation of plans and specifications for beach nourishment. This item specifically excludes permit application fees or any other fees paid to the State of Florida.

2.1 Design and Permitting of the Phase II Restoration

Design and Permitting shall include engineering analysis, numerical modeling and sediment budget updates, engineering plans, and specifications, permit drawings and permitting/ regulatory authorizations through receipt of Department action.

Geotechnical Report

Deliverable A: Geotechnical report from samples collected/analyzed at each T groin, (3)

Total Price: \$13,070.00, Budgeted: \$13,070.00 Net change: \$0.00

Due Date: July 31, 2017; task is 100% complete

Division Requests for Additional Information Response

Deliverable B: Provide a copy of Final Construction Documents and approvals from the National Marine Fisheries Service ("NMFS") and U.S. Fish and Wildlife Service ("USFWS") for the Joint Coastal Permit ("JCP") application to be deemed complete and eligible for final processing.

Total Price: \$2,497.50, Budgeted: \$2,500.00 Net change: **-\$2.50**

Due Date: July 31, 2017; task is 100% complete

Federal Requests for Additional Information #1 Response

Deliverable C: Document transmission of the JCP application to the U.S. Army Corps of Engineers ("USACE"); memorandum summarizing coordination meeting with the USACE.

Total Price: \$5,134.58, Budgeted: \$5,140.00 Net change: **-\$5.42**

Due Date: July 31, 2017; task is 100% complete

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Statement of Work

Response to USACE Request for Additional Information #2

Deliverable D: Response to USACE Request for Additional Information #2.

Total Price: \$7,997.15, Budgeted: \$8,000.00 - **Net change: -\$2.85**

Due Date: July 31, 2017; **task is 100% complete**

Biological Opinion: Environmental Resource Review – USFWS

Deliverable E: Provide the USFWS with sufficient information for them to conduct their review and amend the existing (2005) Biological Opinion, or process a new Biological Opinion.

Total Price: \$5,997.50, Budgeted: \$6,000 - **Net change: -\$2.50**

Due Date: July 31, 2017; **task is 100% complete**

Biological Opinion Environmental Resource Review – NMFS

Deliverable F: Provide the NMFS with sufficient information for them to conduct their review and amend the existing Biological Opinion, or process a new Biological Opinion. Review draft approval documents, final approval from NMFS and provide a copy of approvals.

Total Price: \$5,978.75, Budgeted: \$6,000 - **Net change: -\$21.25**

Due Date: September 30, 2014; **task is 100% complete**

Plans and Specifications

Deliverable G: Final construction plans, technical specifications, updated survey and bid schedule in sufficient detail for the County to prepare the bid package.

Total Price: \$23,546.00, Budgeted: \$23,546.00 - **Net change: \$0.00**

Due Date: September 30, 2014; **task is 100% complete**

Opinion of Probable Prices

Deliverable H: Completed opinion of probable Prices provided prior to receipt of bids.

Total Price: \$10,740.00, Budgeted: \$10,740.00 - **Net change: \$0.00**

Due Date: July 31, 2017; **task is 100% complete**

2.2 Tropical Storm Debby – Updated Design Work; previously approved funds

Tropical Storm Debby occurred in June 2012, and erosion caused by the storm resulted in the need for additional design and permitting coordination between state and federal agencies. The storm impacts caused the need for design amendments, plan updates and coordination between the County, Division, the Florida Division of Recreation and Parks (“Division”), the USACE, NMFS and FEMA.

Deliverable A: Proposed FEMA Worksheet, Department permit and NTP with updated design, NMFS updated consultation letter supporting the Project.

Total Price: \$10,363.37, Budgeted: \$11,800.00 **Net change: -\$1436.63**

Due Date: July 31, 2017; **task is 100% complete**

3.0 CONSTRUCTION

Shall include the work performed and Prices associated with the placement of fill material and/or the construction of erosion control structures within the Project area. Eligible Prices may include mobilization, demobilization, construction observation or inspection services, beach fill, tilling and scarp removal,

Attachment A-7
Statement of Work

erosion control structures, dune stabilization measures and native beach-dune vegetation. Construction shall be conducted in accordance with any and all permits issued by the County, Department and Federal agencies.

3.1 Phase II Bid Services - Updated allocation of previously approved funds

Pre-Bid Conference

Attend a pre-bid conference with representatives from the County, Division and the Division of Recreation and Parks (DRP). Respond to inquiries from potential bidders.

Deliverable A: Provide the County and Division with a memorandum documenting completion of the pre-bid conference along with a list of attendees.

Total Price: \$5,693.38, Budgeted, \$6,120.00 **Net change: -\$426.62**

Due Date: July 31, 2017; **task is 100% complete**

Addenda to Bid Package

Additional information will be provided to all prospective bidders to clarify bid documents requirements during the bid process.

Deliverable B: Addenda to bid documents with responses to requests for information from prospective bidders.

Total Price: \$5,206.43, Budgeted, \$7,320.00 **Net change: -\$2,113.57**

Due Date: July 31, 2017; **task is 100% complete**

Qualification of Bidders Summary and Recommendation - Evaluate bidders' qualifications and contact references.

The Consultant will evaluate bidders' qualifications and contact references. A recommendation for bid award will be provided to the County.

Deliverable C: Memorandum with formal recommendation for the County and Division.

Total Price: \$1,483.32, Budgeted: \$1,830.00 **Net change: -\$346.68**

Due Date: July 31, 2017; **task is 100% complete**

3.2 Phase II Preconstruction Engineering

Preconstruction Survey (Beach Area and T-Groin Profiles Only)

Complete per Monitoring Plan and Division Condition #41, 90 days prior to construction. Monument profile (33) T-groin profiles (18). Conduct a pre-construction survey in accordance with the permit hydrographic monitoring program to allow for updating plan details for Contract Drawings.

Deliverable A: A letter summarizing the results of the survey including a plot of the profiles sent electronically with the data in Department format provided to the County and Division

Total Price: \$31,568.51, Budgeted: \$31,833.00 **Net change: -\$264.49**

Due Date: July 31, 2017; **task is 100% complete**

Updated T-Groin Construction Plans (Contract Drawings)

Update T-groin construction plans to indicate current grades and verification of rock quantities.

Deliverable B: One printed and one electronic copy of updated construction plans provided to the County and DRP, with one electronic copy to the Division.

Total Price: \$2,315.79, Budgeted: \$2,552.00 **Net change: -\$236.21**

Due Date: July 31, 2017; **task is 100% complete**

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Borrow Area and Beach Fill Area Pre-Construction Survey

Construction beach profiles (35) Borrow Area sections (24) Construction Survey for calculation of quantities; borrow area included for quality control of pay quantities. Conduct survey in accordance with the Technical Specification and Monitoring Plan to indicate grades at T-groin locations and sand quantities available in Borrow area as quality control for pay quantities of contractor pay requests. Survey completed at 100-foot sections throughout the Project.

Deliverable C: An updated letter of the survey results provided from Deliverable A; to include a plot of the Borrow Area with the data in Department format provided to the Division. Letter and plots are to be submitted electronically.

Total Price: \$22,899.09, Budgeted: \$22,906.00 **Net change: -\$6.91**

Due Date: August 5, 2018; **task is 100% complete**

Update Beach Fill Construction Plans

Updated survey of the Borrow Area and Beach Area to indicate grades and quantity of sand available to Borrow Area to include the beach and updated fill sections on 100-foot stations throughout the Project. Data to provide quantities available in the borrow area and locations. Updates fill distribution on the beach as the basis for contractor pay quantities.

Deliverable D: One printed and one electronic copy of updated construction plans for Borrow Area and beach fill provided to the County and Division.

Total Price: \$4,634.63, Budgeted: \$4,637.00 **Net change: -\$2.37**

Due Date: August 5, 2018; **task is 100% complete**

Mandatory Pre-Construction Conference:

Conduct mandatory pre-construction conference with the Contractor, County, Division and DRP and regulatory agency representatives. This includes notice of commencement and request for conference with state and federal agencies.

Deliverable E: Summary memorandum of conference as required by state and federal permits.

Total Price: \$2,519.74, Budgeted: \$2,612.00 **Net change: -\$92.26**

Due Date: July 31, 2017; **task is 100% complete**

3.3 Phase II T- Groin Construction Management

T-Groin Construction Management Services:

The Consultant will coordinate with the Contractor throughout the duration of the Project, including pay quantity reviews from mobilization through completion of the three T-Groins; bi-weekly and at times weekly meetings with the Contractor, County and DRP staff. The Consultant will be on site a minimum of once every ten days throughout construction. All QA/QC monitoring activity shall be conducted in accordance with section D of the QA/QC plan.

Deliverable A: The Project summary at the time of substantial completion of the construction of T-Groin #2.

Total Price: \$21,312.42, Budgeted: \$21,480.00 **Net change: -\$167.58**

Due Date: July 31, 2017; **task is 100% complete**

Deliverable B: The Project summary at substantial completion of the construction of T-Groin # 3.

Total Price: \$21,407.25, Budgeted: \$21,480.00 **Net change: -\$72.75**

Due Date: July 31, 2017; **task is 100% complete**

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Deliverable C: The Project summary at substantial completion of the construction of T-Groin #4.

Total Price: \$21,480 (Budgeted: \$21,480.00 Net change: \$0.00)

Due Date October 31, 2018

State and Federal Environmental Monitoring:

Shall consist of permit required monitoring, quality assurance/quality control (QA/QC) program implementation required by the Division, assessment of federal permit compliance requirements from the USFW and NMFS, rock quality review along with verification of grades for foundation materials, bedding layer and armor stone, and sheetpile alignment and elevation review along with tolerance assessment for T-Groin construction, and verification of positioning and installation of daymarks.

Deliverable D: Acceptance of T-Groin #2 through written notice of substantial completion to the Contractor, County, Division and DRP, written summary of QA/QC compliance and environmental turbidity monitoring reports, including a listing of final rock, sheetpile and geotextile material quantities within tolerances for pay quantity.

Total Price: \$37,598, Budgeted: \$37,598.00 Net change: \$0.00

Due Date: July 31, 2017; task is 100% complete

Deliverable E: Acceptance of T-Groin #3 through written notice of substantial completion to the Contractor, County, Division and DRP, written summary of QA/QC compliance and environmental turbidity monitoring reports, including a listing of final rock, sheetpile and geotextile material quantities within tolerances for pay quantity.

Total Price: \$37,598, Budgeted: \$37,598.00 Net change: \$0.00

Due Date: July 31, 2017; task is 100% complete

Deliverable F: Acceptance of T-Groin #4 through written notice of substantial completion to the Contractor, County, Division and DRP, written summary of QA/QC compliance and environmental turbidity monitoring reports, including a listing of final rock, sheetpile and geotextile material quantities within tolerances for pay quantity.

Total Price: \$37,598, Budgeted: \$37,598.00 Net change: \$0.00

Due Date: August 5, 2018

3.4 Phase II – Beach Fill and Dredging Management Services

Construction Management Services (Beach Fill/Dredging)

Construction management of the Project consisting of coordination with the Contractor throughout the duration of the Project. This also includes pay quantity reviews from mobilization through completion of the beach fill Project construction assumed to last 2 months. Bi-weekly and at times weekly meetings with the Consultant, Contractor, County and DRP staff, are anticipated throughout dredging and beach fill placement. The Consultant shall be on site a minimum of once every ten days throughout beach fill construction for construction management. All QA/QC monitoring activity shall be conducted in accordance with section D of the QA/QC plan.

Deliverable A: A Project Summary by the Consultant at time of substantial completion of beach fill placement and dune construction.

Total Price: \$29,464.59, Budgeted, \$24,264.00 **Net change: +\$5,200.59**

Due Date: August 5, 2018

Attachment A-7
Statement of Work

Construction Monitoring

Environmental monitoring, construction observation and QA/QC verification and implementation for state and federal permit compliance, including sediment sampling, coordination analysis, site fill assessment relative to QA/QC for sand quality, verification of grades with tolerance assessment for beach fill and compensated slope adjustments for seaward portion of fill. Fill monitoring to include post fill compaction testing, sufficiency of parking lot removal, and transition of beach fill to dune construction.

Deliverable B: Acceptance of beach fill through written notice of substantial completion to the Contractor, County and Division, written summary of QA/QC compliance, dredging positioning and depth monitoring, and environmental turbidity monitoring reports, including a summary of beach fill placed within tolerances for pay quantity.

Total Price: \$43,382, (Budgeted: \$43,382.00 Net change: \$0.00)

Due Date: August 5, 2018

3.5 Post-Construction Monitoring

Post-Construction Survey and Report #1, Post-construction as required in the Physical Monitoring Plan and Division Condition #41.

Conduct a post construction survey and report in accordance with the Division's hydrographic monitoring program. Report to include comparison of pre and post construction conditions. Post construction report to include summary of turbidity and environmental monitoring through construction, QA/QC assurance conditions, results of sediment sampling and analysis. An update on the state and federal permit conditions will be included.

Deliverable A: Monitoring report and data in digital format to the County and Division.

Total Price: \$68,923, Budgeted: \$68,923.00 Net change: \$0.00

Due Date: August 5, 2018

4.0 MONITORING

A monitoring program conducted in accordance with the requirements specified in any and all permits issued by the Department and the USACE. A monitoring plan must be submitted and approved in writing by the Division prior to the initiation of monitoring activities. The plan shall be developed in a manner that will coordinate the monitoring activities with the Division's Regional Coastal Monitoring Program.

4.1 2012 Monitoring

Deliverable A: CD or DVD containing the 2012 beach and nearshore profile survey data in department format

Total Price: \$19,695.00, Budgeted: \$19,695.00 Net change: \$0.00

Due Date: November 30, 2012; task is 100% complete

Deliverable B: Two hard copies and one electronic copy (DVD or CD) of the 2012 Monitoring Report

Total Price: \$22,940.00, Budgeted, \$22,940.00 Net change: \$0.00

Due Date: February 28, 2013; task is 100% complete

Deliverable C: Digital copy of rectified 2012 aerial

Total Price: \$496.00, Budgeted: \$496.00 Net change: \$0.00

Due Date: February 28, 2013; task is 100% complete

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Statement of Work

4.2 12-Month Monitoring (survey, aerial and report)

Deliverable A: CD or DVD containing the 12-month borrow area, beach and T-groin profiles survey data in Department format

Total Price: \$29,214.95, New Task from previously approved funds. Net change: \$0.00

Due Date: August 5, 2018

Deliverable B: Digital copy of the 12-month oblique aerial

Total Price: \$971.31, New Task from previously approved funds. Net change: \$0.00

Due Date: August 5, 2018

Deliverable C: One electronic copy (DVD or CD) of the 12-month monitoring report

Total Price: \$26,377.94, New Task (previously approved funds). Net change: \$0.00

Due Date: August 5, 2018

4.3 24-Month Monitoring (survey, aerial and report)

Deliverable A: CD or DVD containing the 24-month beach and T-groin profiles survey data in Department format

Total Price: \$24,444.19, New Task from previously approved funds. Net change: \$0.00

Due Date: August 5, 2018

Deliverable B: Digital copy of the 24-month oblique aerial

Total Price: \$971.31.00, New Task previously approved funds. Net change: \$0.00

Due Date: August 5, 2018

Deliverable C: One electronic copy (DVD or CD) of the 24-month monitoring report

Total Price: \$25,540.54, New Task from previously approved funds. Net change: \$0.00

Due Date: August 5, 2018

4.4 36-Month Monitoring (survey, aerial and report)

Deliverable A: CD or DVD containing the 36-month borrow area, beach and T-groin profiles survey data in Department format.

Total Price: \$29,214.95, New Task from previously approved funds. Net change: \$0.00

Due Date: Work to be completed under separate contract.

Deliverable B: Digital copy of the 36-month oblique aerial

Total Price: \$971.31.00 New Task from previously approved funds. Net change: \$0.00

Due Date: Work to be completed under separate contract.

Deliverable C: One electronic copy (DVD or CD) of the 36-month monitoring report

Total Price: \$26,377.94, New Task from previously approved funds. Net change: \$0.00

Due Date: Work to be completed under separate contract.

Attachment A-7
Statement of Work

Written authorization from the County & Department is required before commencing

Tasks 4.5, 4.6, 4.7, 4.8.

4.5 60-Month Monitoring (survey, aerial and report)

Deliverable A: CD or DVD containing the 60-month borrow area, beach and T-groin profiles survey data in Department format

Total Price: \$29,072.23, New Task from previously approved funds). Net change: \$0.00

Due Date: Work to be completed under separate contract.

Deliverable B: Digital copy of the 60-month oblique aerial

Total Price: \$971.31, New Task (previously approved funds). Net change: \$0.00

Due Date: Work to be completed under separate contract.

Deliverable C: one electronic copy (DVD or CD) of the 60-month monitoring report

Total Price: \$26,377.94, New Task from previously approved funds. Net change: \$0.00

Due Date: Work to be completed under separate contract.

4.6 End of Project Coordination, follow up with the State and Federal Agencies for Project Closeout.

Deliverable A: Final written summary of project completion

Total Price: \$23,479.49, New Task from previously approved funds. Net change: \$0.00

Due Date: Work to be completed under separate contract.

4.7 Rectified Aerial; required if existing aerials doesn't meet the permit requirement 41c of the Permit.

Deliverable A: Digital copy of the rectified aerial

Total Price: \$7,135.44, New Task from previously approved funds. Net change: \$0.00

Due Date: To Be Determined (TBD)/As Required

4.8 Post Storm Survey and FEMA assistance:

Assist the County in obtaining FEMA assistance should a wind event occur requiring survey data collection of the beach profiles to determine damage

Deliverable A: CD or DVD containing the Post Storm beach profile survey data in Department format.

Total Price: \$28,745.81, New Task from previously approved funds. Net change: \$0.00

Due Date: TBD/As Required

Attachment A-7
Statement of Work

DC839 Amendment 7, Price Schedule

PRIME

Task ID	Task ID	Task Description and Breakdown	Fee Schedule	Principal Engineer	Senior Engineer	Engineer I/II	Engineer I	Engineer I	Eng. Modeling Tech 3	Eng. Modeling Tech 1	AutoCAD II	AutoCAD III	Project Coordinator	Admin. Assistant	Monthly Observation LST-Notes	Monthly Observation LST-Notes	Total Labor Prices	Reimbursable Expenses*	Sub Consultants	Sub-Totals/Budget	Profess. Budget	Hourly Allocated (Previous Approval)	Total
		Phase II Design and Permitting (completed work, previously approved funds)		\$ 185.74	\$ 140.85	\$ 101.63	76	\$ 62.18	\$ 45.93	\$ 68.28	69.08	59.25	\$ 47.90	\$ 48.53	\$ 16,799.08	\$ 21,691.00				\$ 74,961.48	\$ 74,961.00	\$ (14.52)	\$ 74,961.48
2.2	A	Finalize Storm Policy - Updated Design Work, previously approved funds		18	2	30		11	32		40			3			\$ 11,797.22	\$ 2.78		\$ 10,941.37	\$ 11,889.00	\$ (1,455.63)	\$ 10,941.37
2.1		PHASE I DESIGN REVIEW																					\$ 80,924.80
	A	Pre-Old Construction Site															\$ 5,120.00	\$ 800.00		\$ 5,920.00	\$ 6,100.00	\$ (416.62)	
	B	Address to RM Package															\$ 7,270.00	\$ 50.00		\$ 7,320.00	\$ 7,280.00	\$ (2,113.57)	
	C	Qualification of Bidder (Survey and Reconnaissance - Engineer/Technician qualifications and cost references)															\$ 1,760.00	\$ 50.00		\$ 1,810.00	\$ 1,830.00	\$ (140.88)	\$ 11,368.31
2.3		PHASE II PRE-CONSTRUCTION FOR ENGINEERING																					
	A	Pre-Construction Survey (Back area and T-Circle Profile Study)		3		11			4	0	4						\$ 3,237.50	\$ 540.30	\$ 28,847.10	\$ 31,364.91	\$ 31,833.00	\$ (264.49)	
	B	Updated T-Circle Construction Plans (Contract Drawings)		3		8			8		4						\$ 2,475.72	\$ 276.28		\$ 2,752.00	\$ 2,512.00	\$ (216.31)	
	C	Survey Lines and Back Fill Area Pre-Construction Survey		2	1	8			8		4						\$ 2,206.25	\$ 483.25	\$ 20,216.54	\$ 22,895.00	\$ 22,906.00	\$ (8.95)	
	D	Update Back Fill Construction Plans		4		16			8		23						\$ 4,562.31	\$ 60.77		\$ 4,623.08	\$ 4,677.00	\$ (12.37)	
	E	Monthly Pre-Construction Conference		8						13							\$ 2,531.78	\$ 80.23		\$ 2,612.00	\$ 2,632.00	\$ (92.26)	\$ 63,907.76
3.3		PHASE III - CONSTRUCTION MANAGEMENT																					
	A	T-Circle Construction Management (T-grate #1)		75		12			75		19						\$ 21,430.90	\$ 49.10		\$ 21,312.42	\$ 21,480.00	\$ (147.08)	
	B	T-Circle Construction Management (T-grate #2)		75		12			75		19						\$ 21,430.90	\$ 49.10		\$ 21,407.25	\$ 21,480.00	\$ (172.75)	
	C	T-Circle Construction Management (T-grate #3)		75		12			75		19						\$ 21,430.90	\$ 49.10		\$ 21,400.00	\$ 21,480.00	\$ 21,480.00	
	D	State and Federal Environmental Monitoring (QA/QC program) (T-grate #1)													2		\$ 37,586.00			\$ 37,586.00	\$ 37,586.00	\$ 37,586.00	
	E	State and Federal Environmental Monitoring (QA/QC program) (T-grate #2)													2		\$ 37,586.00			\$ 37,586.00	\$ 37,586.00	\$ 37,586.00	
	F	State and Federal Environmental Monitoring (QA/QC program) (T-grate #3)													2		\$ 37,586.00			\$ 37,586.00	\$ 37,586.00	\$ 37,586.00	
3.4		PHASE IV - REACH FILE AND INSPECTION MANAGEMENT SERVICES																					
	A	Construction Management Service (Reach File/Inspection)		75		7			80		80				0		\$ 24,362.35	\$ 101.88		\$ 24,084.33	\$ 24,244.00	\$ 3,205.99	
	B	Environmental Monitoring Construction observation and QA/QC													2		\$ 43,882.00			\$ 43,882.00	\$ 43,882.00	\$ 72,846.59	
3.5		PHASE V - CONSTRUCTION MANAGEMENT																					
	A	Pre-Construction Survey and Report #1		27	10	51		80	35	75	40	75		2			\$ 34,887.23	\$ 560.64	\$ 33,675.14	\$ 66,923.00	\$ 68,923.00	\$ 68,923.00	\$ 395,084.13
		FUTURE MONITORING ALLOCATION																					
4.1		2012 MONITORING																					\$ 49,131.00
4.2	A	12-Month Post Construction Survey & QC Review (A, Back & T-grates)		3	1	8		12			8						\$ 2,674.81			\$ 26,740.14	\$ 26,214.95	\$ 26,214.95	
	B	12-Month Post Construction Aerial and QC		1		8					8						\$ 471.31			\$ 900.00	\$ 871.83	\$ 871.83	
	C	12-Month Post Construction Remote Sensing and QC		16	11	38		40	100	100	16			2			\$ 26,177.84			\$ 26,177.84	\$ 26,177.84	\$ 56,544.30	
4.3	A	14-Month Post Construction Survey & QC Review (Back & T-grates)		2	1	3		8		12							\$ 3,112.00			\$ 27,112.10	\$ 24,486.10	\$ 24,486.10	
	B	14-Month Post Construction Aerial and QC		1		3					3						\$ 471.31			\$ 900.00	\$ 871.31	\$ 871.31	
	C	Inspects & reports with DEH/BA/CY Disconnection		24	12	24		80	100	40	26			2			\$ 25,540.54			\$ 25,540.54	\$ 25,540.54	\$ 58,956.04	
4.4	A	16-Month Post Construction Survey & QC Review (A, Back & T-grates)		2	1	8		12			4						\$ 2,674.81			\$ 26,740.14	\$ 26,114.95	\$ 26,114.95	
	B	16-Month Post Construction Aerial and QC		1		8					8						\$ 471.31			\$ 900.00	\$ 871.31	\$ 871.31	
	C	Inspects & reports with DEH/BA/CY Disconnection		24	12	24		40	100	40	16			2			\$ 26,177.84			\$ 26,177.84	\$ 26,177.84	\$ 58,956.04	
4.5		FUTURE MONITORING ALLOCATION																					
4.6	A	Post-Construction Coordination, follow up with State and Federal Agencies		30	8	12		80	100	33	25			1			\$ 12,479.49			\$ 23,479.49	\$ 23,479.49	\$ 23,479.49	\$ 58,956.04
4.7	A	Backfill Aerial if needed for any of the survey events above		0	0	0		2	8	8	0			1			\$ 280.44			\$ 6,935.06	\$ 7,135.44	\$ 7,135.44	\$ 7,135.44
4.8	C	Post Storm Survey and FEMA assistance		23	8	20		20	0	0	0			9			\$ 4,506.43	\$ 303.63	\$ 20,216.54	\$ 28,745.83	\$ 28,745.83	\$ 622,997.48	

*Supporting documentation will be provided for all Reimbursable Expenses when billed

SUBCONSULTANTS		600 Lamp Sum	PCA Lamp Sum	Total
3.2	A	\$ 22,112.30		22,112.30
	A		6,935.06	6,935.06
	C	\$ 20,216.54		20,216.54
3.5	A	\$ 26,740.14		26,740.14
	A		300.00	300.00
4.3				
4.3A	12-Month Post Construction Survey & QC Review (A, Back & T-grates)	\$ 26,740.14		27,000
4.3B	12-Month Post Construction Aerial and QC		300.00	6,935
4.3C	14-Month Post Construction Survey & QC Review (Back & T-grates)	\$ 25,740.14		27,000
4.3D	14-Month Post Construction Aerial and QC		300.00	6,935
4.3E	16-Month Post Construction Survey & QC Review (A, Back & T-grates)	\$ 26,740.14		27,300
4.3F	16-Month Post Construction Aerial and QC		300.00	6,935
4.3G	18-Month Post Construction Survey & QC Review (A, Back & T-grates)	\$ 26,740.14		27,300
4.3H	18-Month Post Construction Aerial and QC		300.00	6,935
4.3I	Inspects Aerial if needed for any of the survey events	\$ 6,935.06		27,600
4.8A	Post Storm Survey (FEMA assistance)	\$ 28,745.83	2,000.00	104,744