



ARTIBUS DESIGN

ENGINEERING AND PLANNING

Task Order #2509-01

Structural Engineering Design Services

**Edward B. Knight Pier
Phase 1 Repairs**

**Whites St (South End)
Key West, FL 33040**

Prepared for

City of Key West Engineering Department

September 2025

By:

**Artibus Design LLC,
3710 N Roosevelt Blvd,
Key West, FL 33040**

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Location Map

Project Description:

Artibus Design LLC completed a structural evaluation report August 2025. The current scope of work is to provide structural repair plans for the damage identified as:

Phase 1: Immediate Repairs

- Reconstruct Area of Collapsed Sidewalk
- Reconstruct Area of Settling Sidewalk
- Reconstruct Stormwater Inlets (Manholes)
- Grout Stormwater Outlets
- Rip Rap Replenishment



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Artibus Design LLC is pleased to present this engineering service proposal for the scope described below.

Scope of work:

Task 1. Site Evaluation & Measurements

- 1.1 Review bathymetric survey, provided by City
- 1.2 Perform field measurements, as required for repair plans
- 1.3 Provide benthic survey, as required for permitting

Task 2. FDEP & ACOE Permitting (Rip Rap & Grouting Stormwater Outlets)

- 2.1 Prepare drawings and details
- 2.2 Apply for Florida Department of Environmental Protection & Army Corps of Engineers permits
- 2.3 Coordinate with FDEP & ACOE, as required (pre-app meeting, requests for additional information, etc.)

Task 3. Construction Drawings

- 3.1 Prepare preliminary drawings and details for review by the City
- 3.2 Incorporate any changes and comments provided by the City
- 3.3 Prepare final construction drawings as needed for permitting and construction

Note: Rip rap and grouting stormwater outlets will be a separate set of construction drawings, due to permitting requirements

Task 4. Bid Services

- 4.1 Attend pre-bid meeting and site visit
- 4.2 Review and respond to bid RFI's
- 4.3 Review bids and provide recommendations to the City

Task 5. Construction Administration Services

- 5.1 Review of submittals
- 5.2 Respond to contractor's RFI's
- 5.3 Up to five (5) site visits for progress and substantial completion

Deliverables:

1. Preliminary designs in PDF format via e-mail
2. Digitally certified construction drawings
 - a. Rip rap & grouting stormwater outlets
 - b. Remainder of repairs listed in project description
3. FDEP & ACOE permits (rip rap & grouting stormwater outlets)

Assumptions:

1. City will provide Bathymetric survey for up to 50' around the area of work with elevations on a 10' o.c. grid
2. City will provide full and unrestricted access to the property during normal work hours Monday-Friday 7 am till 5 pm
3. It is understood that the work may be terminated at the end of any task, if the City deems it necessary



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Cost of Work:

The proposed total lump sum fee for this scope of work shall be: \$83,716.00

Task 1. Site Evaluation & Measurements

Structural Engineer (P.E.):	20 hours @	\$180.00 /hr	\$3,600.00
Engineering Technician (non-P.E.)	20 hours @	\$105.00 /hr	\$2,100.00
Clerical	4 hours @	\$78.00 /hr	\$312.00
Environmental Eng. (Benthic Survey, etc)		\$19,000.00	\$19,000.00

Task 2. FDEP & ACOE Permitting

Structural Engineer (P.E.):	80 hours @	\$180.00 /hr	\$14,400.00
Engineering Technician (non-P.E.)	30 hours @	\$105.00 /hr	\$3,150.00
Clerical	8 hours @	\$78.00 /hr	\$624.00

Task 3. Construction Drawings

Structural Engineer (P.E.):	100 hours @	\$180.00 /hr	\$18,000.00
Engineering Technician (non-P.E.)	40 hours @	\$105.00 /hr	\$4,200.00
Clerical	4 hours @	\$78.00 /hr	\$312.00

Task 4. Bid Services

Structural Engineer (P.E.):	30 hours @	\$180.00 /hr	\$5,400.00
Engineering Technician (non-P.E.)	10 hours @	\$105.00 /hr	\$1,050.00
Clerical	2 hours @	\$78.00 /hr	\$156.00

Task 5. Construction Administration Services

Structural Engineer (P.E.):	50 hours @	\$180.00 /hr	\$9,000.00
Engineering Technician (non-P.E.)	20 hours @	\$105.00 /hr	\$2,100.00
Clerical	4 hours @	\$78.00 /hr	\$312.00

Services and Costs Excluded from Contract

1. Permitting and application fees
2. Bathymetric survey



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Schedule of Hourly Rates (Per Approved Contract)

Title or work description	Hourly Rate
Licensed Professional Engineer (P.E.)	\$180.00
Project Manager	\$156.00
Certified Engineer Intern (E.I.)	\$130.00
Structural Inspector (non-P.E.)	\$130.00
Expert Witness (Legal)	\$350.00
Inspector (non-P.E.)	\$105.00
Engineering Technician	\$105.00
Drafting Technician	\$105.00
Clerical	\$78.00

Schedule of Reimbursable Expenses

Item description	Rate
Large Format Prints (Arch-D, 24"x36") Color	\$35.00/Each
Large Format Prints (Arch-D, 24"x36") Black&White	\$15.00/Each
Prints (Tabloid, 11"x17") Color	\$5.00/Each
Prints (Tabloid, 11"x17") Black&White	\$0.75/Each
Prints (8.5"x11") Color	\$0.50/Each
Prints (8.5"x11") Black&White	\$0.25/Each
Binding Large Format	\$50.00/Each
Binding Tabloid and Letter Format	\$20.00/Each
Mailing and Shipping Expenses	Cost + 20%
Travel Expenses (outside Monroe County)	Cost + 20%
Misc. (Discs, Flash Drives, etc.)	Cost + 20%

Reviewed for Legal Sufficiency:

Kendal Harden

Client:

Signature _____ Date _____

Brian L. Barroso
City Manager

By:

Signature *Serge Mashtakov* Date 09/04/25

Serge Mashtakov, PE
President, Artibus Design LLC

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