



## CONSULTING SERVICE AUTHORIZATION

DATE: \_\_\_\_\_

SERVICE AUTHORIZATION NO. 12-16 FOR ENGINEERING CONSULTING SERVICES

CITY P.O. NO. \_\_\_\_\_ CITY EXPENSE CODE \_\_\_\_\_

CITY PROJECT NOS. 16-098. WGI PROJECT NO. \_\_\_\_\_

This Service Authorization, when executed, shall be incorporated in and shall become an integral part of, the "Agreement for General Consulting Services" contract executed January 24, 2012.

Title: City of Delray Beach Marina Seawall and Boat Dock Improvements.

### I. PROJECT DESCRIPTION

Engineering Design, Permitting, Surveying, Bidding, and Project Representation during Construction and Public Outreach Services for the City of Delray Beach Marina Seawall Repairs/Reconstruction, Finger Pier Replacement within the City of Delray Beach Marina located between SE 1st Street and SE 2nd Street. The Seawall repairs will be based on field-identified structural and safety deficiencies performed by WGI. The seawall wall cap will be raised to account for future sea level rise and wave marine vessel wave action. All existing wooden piers will be removed and will be replaced with floating piers. Additionally, WGI will prepare an Opinion of Probable Construction Cost (OPCC) for budgeting and bidding purposes.

II. This Service Authorization is for construction phase services associated with City Project No. 12-16

III. This Service Authorization is for Engineering design, permitting, post design (bidding) and construction inspection services associated with City Project No. 16-098.

### IV. SCOPE OF SERVICES FOR THE CITY MARINA SEAWALL AND SEAWALL CAP REPAIR / RECONSTRUCTION AND WOODEN FINGER PIER DOCK REPLACEMENT

Phase I - Study and Report Phase

Not Applicable.

Phase II - Preliminary Design Phase

Prepare an in-depth seawall and finger pier inspection, attend a project kick-off meeting, prepare field visit documentation and document coordination of the survey, geotechnical and available record drawings.

### Phase III - Final Design Phase

The scope of the project will be to prepare Construction Documents for repair/replacement of the concrete seawall and cap and for replacement of the finger piers at in the City of Delray Beach Marina. Repairs shall be based on field-identified structural and safety deficiencies as referenced in WGI's Conditions Assessment Report Dated May 5th 2016. The existing finger piers will be removed and new floating finger piers will be constructed. Construction Documents shall include Calculations, Plans, and Specifications, signed and sealed by a Florida Registered Professional Engineer, as required. Design services do not include areas west of the seawall including the existing walkways, sidewalks and drainage.

WGI will also be coordinating and providing graphics and displays for, and will attend up to three (3) public outreach informational meetings to be held in the City for the dissemination of project information to the residents of the City. The City will provide the location for these public meetings.

### Phase IV - Bidding/Negotiation Phase

Assist the City with the public bidding of the project including the attendance at the pre-bid meetings, responding to request for information, review of bids and preparation of a bid recommendation letter to the City

### Phase V - Resident Project Representative Phase

WGI shall provide construction services in accordance with, Article III (Duties of Consultant) Section E, Phase V-(Construction Phase), Items 1-18 of the Agreement for Engineering Services with the City, dated January 24, 2012.

### Other - Permitting

1. Prepare permit applications and associated permit engineering plans and associated calculations and documentation. Respond the Requests for Additional Information (RAI's) from the regulatory agencies and amend and revise plans/details accordingly.
2. Preparation of an application to the US Army Corps of Engineers (USACE) for a Nationwide 3 permit for maintenance/repair of an existing dock.
3. Preparation of an application to the Florida Department of Environmental Protection (DEP) that proposed activities meet exemption criteria as cited in paragraph 62-330.051(12) (b) F.A.C.
4. Permitting is based on current scope to replace existing dock structure and replace seawall to increase height in response to rising water levels. Should the scope expand, additional permitting may be required.
5. Respond to Requests for Information (RAI's) from regulatory agencies.

Other - Surveying

1. Prepare survey calculation file and field package information.
2. Research public records for plats, NGS and county control, survey information, etc.
3. Locate, check, and reference horizontal & vertical control.
4. Locate all improvements within 25 feet of seawall edge, including but not limited to: seawall, finger piers, pilings, trees, buildings, sidewalks, light poles, visible utilities, and adjacent seawall waterway soundings at 50 foot intervals.
5. Process, check, and review field information.
6. Prepare topographic survey for engineering base map purposes.
7. Final review and QC by Professional Surveyor and Mapper.

Other - Storm Pipe Cleaning and Video

Clean 48" pipe	60 L.F.
Clean 36" pipe	50 L.F.
Clean 24" pipe	480 L.F.
Clean 18" pipe	80 L.F.
Clean 15" pipe	40 L.F.
Video Inspection	710 L.F.
48" Plug Remove	2 Ea.

Other - Subsurface Utility Engineering (SUE) Location Services

Not Applicable

Other - Geotechnical Services

WGI will perform two (2) Standard Penetration Test (SPT) borings to a depth of 45 feet, and two (2) SPT borings to a depth of 25 feet below existing grade. Within the SPT boring, disturbed sample collection will be performed in general accordance with the requirements of ASTM D 1587.

Upon completion of the field exploration, laboratory testing will be performed on selected samples.

A Soil profile with boring location plan will be will be issued.

## COMPENSATION

The compensation for services provided shall be billed on an hourly basis, plus reimbursable expenses for each phase of work, in accordance with Article VII, Method II, up to the following not-to-exceed cost for each phase.

Engineering Services - (City Project Nos.16-096)

Phase I - Study and Report Phase (Not Applicable)	---
Phase II - Preliminary Design Phase	\$6,920.72
Phase III - Final Design Phase	\$21,870.24
Phase IV - Bidding/Negotiating Phase	\$7,641.68
Phase V - Resident Project Representative Phase	\$14,089.92
Other Services - Permitting	\$7,986.88
Other Services - Surveying	\$13,609.80
Other Services - Storm Pipe Cleaning and Video	\$7,078.00
Other Services - Geotechnical	\$6,050.00
Other Services - Public Outreach	\$10,620.00
Reimbursable -	\$800.00
Total Compensation - \$96,764.32	

## V. COMPLETION DATE

SEE ATTACHED DESIGN, PERMITTING AND CONSTRUCTION SERVICES SCHEDULE

This service authorization is approved contingent upon the City's acceptance of and satisfaction with the completion of the services rendered in the previous phase or as encompassed by the previous service authorization. If the City in its sole discretion is unsatisfied with the services provided in the previous phase or service authorization, the City may terminate the contract without incurring any further liability. WGI shall commence work on any service authorization approved by the City to be included as part of the contract without a further notice to proceed.

Approved by:

CITY OF DELRAY BEACH:

CONSULTANT:

Date \_\_\_\_\_

Date \_\_\_\_\_

By: \_\_\_\_\_  
Cary D. Glickstein  
Mayor

By: \_\_\_\_\_  
(Seal)

\_\_\_\_\_  
Witness (Signature)

\_\_\_\_\_  
Witness (Printed)

Attest: \_\_\_\_\_

Approved as to Legal Sufficiency

\_\_\_\_\_  
Interim City Attorney, Janice Rustin

BEFORE ME, the foregoing \_\_\_\_\_ instrument, this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_\_\_, was acknowledged by \_\_\_\_\_ on behalf of the Corporation \_\_\_\_\_, and said person executed the same free and voluntarily for the purpose there-in expressed.

Witness my hand and seal in the County and State aforesaid this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_\_\_.

\_\_\_\_\_  
Notary Public  
State of Florida  
My Commission Expires:

### Phase III - Final Design Phase

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Approved by:

CITY OF DELRAY BEACH:

Date \_\_\_\_\_

By: \_\_\_\_\_

Cary D. Glickstein  
Mayor

CONSULTANT:

Date 8/1/14  
By: Michael L. Davis  
(Seal)  
1991

Witness (Signature)

John Abbott  
Witness (Printed)

Attest: \_\_\_\_\_

Approved as to Legal Sufficiency

Interim City Attorney, Janice Rustin

BEFORE ME, the foregoing instrument, this 1 day of August, 2014, was acknowledged by Michael L. Davis on behalf of the Corporation Wantman Group Inc., and said person executed the same free and voluntarily for the purpose there-in expressed.

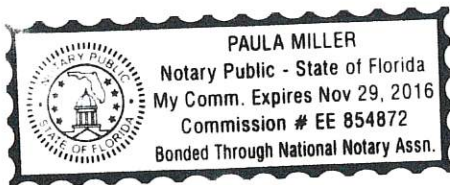
Witness my hand and seal in the County and State aforesaid this 1 day of August, 2014.

Paula Miller

Notary Public

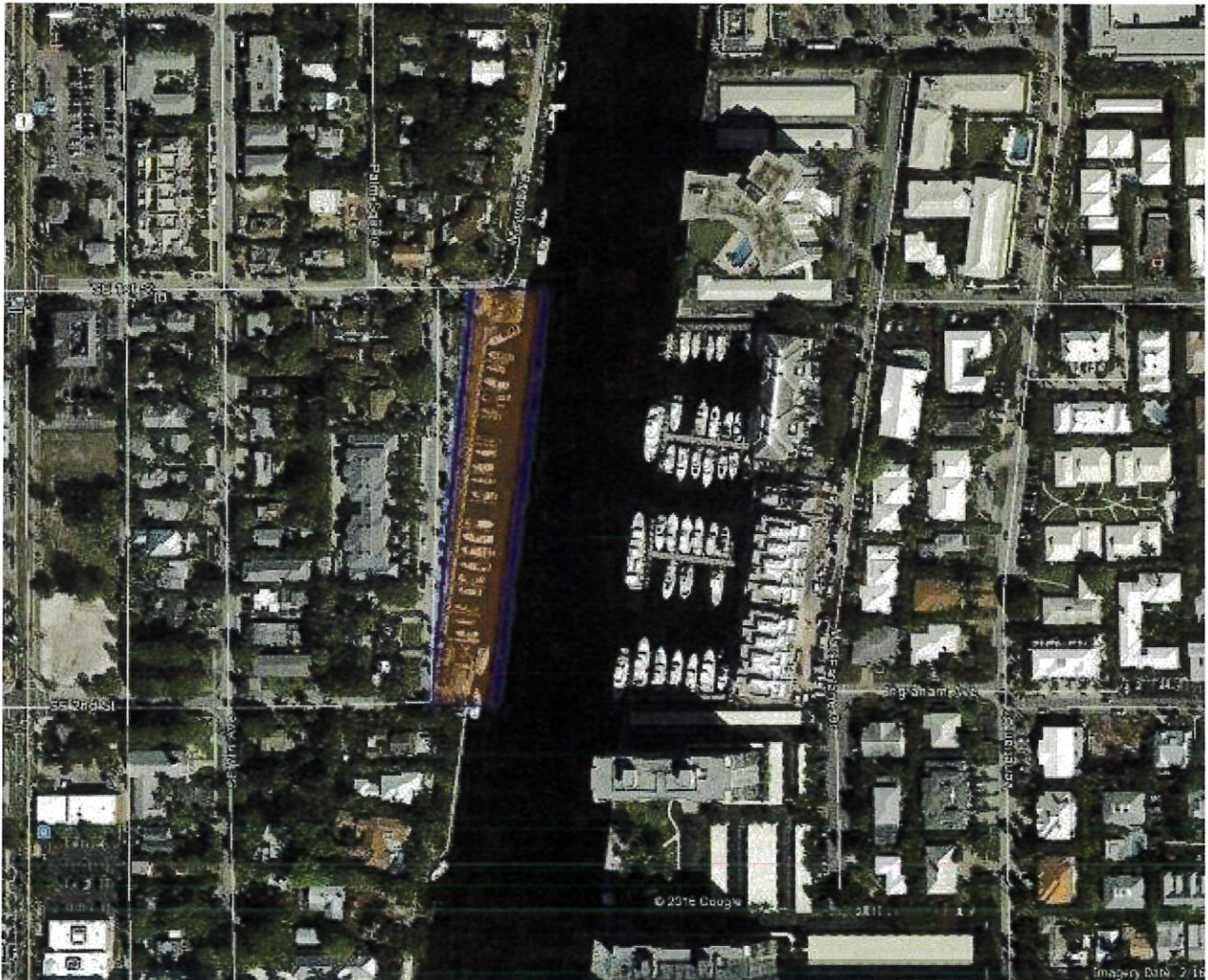
State of Florida

My Commission Expires: 11/29/16



**City of Delray Beach  
City Marina Seawall and Boat Dock Improvements**

**Location Map**



**NTS (not to scale)**



**City Marina and Finger Dock Improvements Project Schedule  
City of Delray Beach Project #16-096**

		Duration	Month 1				Month 2				Month 3				Month 4				Month 5				Month 6				Month 7				Month 8				Month 9				Month 10				Month 11				Month 12			
	TASK DESCRIPTION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	33	34	35	36	37	38	39	40
a	PRELIMINARY DESIGN PHASE (2)	4 WEEKS																																																
b	DESIGN PHASE	12 WEEKS																																																
c	PUBLIC OUTREACH	10 WEEKS																																																
d	BIDDING ASSISTANCE	10 WEEKS																																																
e	POST DESIGN SERVICES (1)	20 WEEKS																																																
	OTHER SERVICES																																																	
f	PERMITTING	16 WEEKS																																																
g	SURVEYING (2)	5 WEEKS																																																
h	GEOTECHNICAL (2)	5 WEEKS																																																
i	PIPE CLEANING AND VIDEO (2)	4 WEEKS																																																

Service Authorization Number : 12-15A City of Delray Beach

**Notes:**

1. Post Design Services are dependent on the construction schedules (Preliminary
2. Upon receipt of a signed service authorization from the City, the schedule will begin.





Prepared For: City of Delray Beach	Prepared by: Brian J. LaMotte, PE Date : 7/29/2016
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Prepared by: Brian J. LaMotte, PE  
Date : 7/29/2016

City Project No. 16-096 CITY MARINA SEWALL AND FINGER PIER DESIGN

DESCRIPTION	PRINCIPLE ENGINEER	SR PROJECT MANAGER	PROJECT MANAGER	SR PROJECT ENGINEER	PROJECT ENGINEER	ENGINEER INTERN	FIELD ENGINEER	SENIOR PROFESSIONAL SURVEYOR	3 MAN SURVEY CREW	SURVEYOR / TECH	ENVIRONMENTAL SCIENTIST	GRAPHIC ARTIST	TOTAL LABOR COSTS	SUBTOTAL - LABOR COSTS
I. IN-DEPTH DOCK INSPECTION: Kick Off Meeting Project Coordination In-Depth Inspection Field Visit / Documentation Coordinate Survey, Geotech. and Record Drawings QA / QC		3   5 3			3  8 4 8		2  8 4 8						\$ 1,071.12 \$ - \$ 1,787.52 \$ 1,756.76 \$ - \$ 2,305.32	\$ 6,920.72
II. PREPARATION OF CONTRACT DOCUMENTS: A. PLAN SHEETS Cover Sheet and Index General Notes Marginal Dock Plan and Elevation (1 of 2) Marginal Dock Plan and Elevation (2 of 2) Marginal Dock Typical Section Marginal Dock Foundation Plan Marginal Dock Foundation Details Typical Finger Dock Plan and Elevation Typical Finger Dock Section Finger Dock Foundation Plan Finger Dock Foundation Details Seawall Repair Plan (1 of 2) Seawall Repair Plan (2 of 2) Concrete Repair Notes and Details (1 of 2) Concrete Repair Notes and Details (2 of 2) Timber Details (1 of 2) Timber Details (2 of 2) B. OPCC C. TECHNICAL SPECIFICATIONS  D. QA/QC E. Meetings		0.5 2 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 8		4 4 4 4 4 4 4 4 1 4 2 2	1 4 8 4 4 4 8 8 2 4 4 8 8 2 4 8							\$ - \$ 192.74 \$ 770.96 \$ 1,449.26 \$ 1,023.50 \$ 1,023.50 \$ 1,023.50 \$ 1,023.50 \$ 1,449.26 \$ 1,449.26 \$ 1,023.50 \$ 1,023.50 \$ 1,449.26 \$ 1,449.26 \$ 427.04 \$ 427.04 \$ 767.78 \$ 767.78 \$ 851.52 \$ 1,874.40 \$ - \$ - \$ 2,403.68	\$ 21,870.24	
III. SURVEYING A. Field Work B. Survey Preparation			4		6			8 8	48	36			\$ 9,638.28 \$ 3,971.52	\$ 13,609.80
IV. POST DESIGN SERVICES A. Construction Engineering Inspection (CEI) B. Meetings		6	16 8		16 8		60						\$ 12,078.48 \$ 2,011.44	\$ 14,089.92
V. BIDDING ASSISTANCE A. Prepare Bid Documents B. Meetings		4	8 8		36	16							\$ 6,826.96 \$ 1,159.92 \$ -	\$ 7,986.88
VI. PERMITTING A. Prepare Applications B. Meetings & Permit follow up			6 6								12 36		\$ 2,369.46 \$ 5,368.50	\$ 7,737.96
VII. Public Out Reach Meetings A. Coordination of Renderings & Graphics B. Attend Public Outreach Meetings		8 12			8 12							72	\$ 7,272.32 \$ 3,348.48	\$ 10,620.80
												SUB TOTAL	\$ 82,836.32	\$ 82,836.32
SUBTOTALS - HOURS	0	59	56	66	206	16	82	16	48	36	48	72		
FEE ESTIMATE	\$ -	\$ 10,183.40	\$ 8,119.44	\$ 8,438.76	\$ 21,926.64	\$ 1,144.80	\$ 9,594.00	\$ 2,439.36	\$ 7,200.00	\$ 2,751.84	\$ 5,998.08	\$ 5,040.00	\$ 82,836.32	
VIII. PIPE CLEANING AND VIDEO													\$ 7,078.00	
IX. REIMBURSABLE													\$ 800.00	
X. GEOTECHNICAL													\$ 6,050.00	
SUBTOTALS - HOURS	0	59	56	66	206	16	82	16	48	36	48	72		
FEE ESTIMATE	Hourly Rate (1)	204.81	\$ 172.60	\$ 144.99	\$ 127.86	\$ 106.44	\$ 71.55	\$ 117.00	\$ 152.46	\$ 150.00	\$ 76.44	\$ 124.96	\$ 70.00	
	\$ -	\$ 10,183.40	\$ 8,119.44	\$ 8,438.76	\$ 21,926.64	\$ 1,144.80	\$ 9,594.00	\$ 2,439.36	\$ 7,200.00	\$ 2,751.84	\$ 5,998.08	\$ 5,040.00	GRAND TOTAL	\$ 96,764.32

**Note: (1) All Hourly rates are approved rates with the City of Delray Beach**

<b>WGI Total Labor Fees</b>	<b>\$ 96,764.32</b>
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