City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
214 N. Hogan Street, 10th Floor
Jacksonville, FL 32202
(904) 255-8762
www.coj.net

ONE CITY. ONE JACKSONVILLE.

October 24, 2019

TO: Gregory W. Pease, Chairman
Professional Services Evaluation Committee

10/31/19 10:43:03
Procurement Division

THRU: John P. Pappas, P.E.
Director of Public Works

FROM: Thomas H. Goldsbury, P.E.
Project Manager

SUBJECT: P-14-17 Professional Design Services for Jacksonville Beach Pier – Review/Design Amendment 5 Pile Driving Analysis and Post-Design Geotechnical Services
Act. No. PWCP166VP519-039410-PW0348-03-AFA017-01/CTPW17000057-01

The construction contract is processing and construction is expected to start in the near future. The City has met with the consultant and negotiated a fee and scope for Pile Driving Analysis and Post-Design Geotechnical Services, which are required during the test pile installation process, and we believe, are fair and equitable.

Accordingly, this is to recommend that Contract 3140-33 with RS&H for Professional Design Services for Jacksonville Beach Pier Review and Design be amended to include the attached Scope of Services for Pile Driving Analysis and Post-Design Geotechnical Services, identified as Exhibit "A-5" and Fee Schedule identified as Exhibit "B-5"; to increase the Lump sum amount for Project Management, Pre-Construction Support and Construction support Services by $12,193.32, to a new total of $109,477.16, to include a not-to-exceed amount of $57,250 for Pile Driving Analysis Services; to include a Lump sum fee of $23,536.96 for Post Design Geotechnical Services; and to increase the maximum indebtedness of the City by $92,980.28 to a new total of $1,268,264.69; with all other terms and conditions of the Contract remaining unchanged.

THG

Attachments: Exhibits A-5 & B-5

cc: Lori A. West, Engineering Contract Specialist

ab

City Exhibit A-5

SCOPE OF SERVICES – Supplemental Agreement #5

RFP #P-14-17: Professional Design Services for Jacksonville Beach Review, Design – Phase III: Construction Support – SA#5 Department of Public Works

CITY OF JACKSONVILLE, FLORIDA

I. SCOPE OF PROJECT

1. (Remains unchanged) The objective of Phase III is RS&H, Inc. (RS&H), herein called the "Consultant", to provide support services during the reconstruction of portions of the Jacksonville Beach Pier (Pier) for the City of Jacksonville, herein called the "Client".

2. Scope of Work will include:

   A. (Remains unchanged) Construction Engineering and Inspection
   England, Thims & Miller, Inc. (ETM) will provide on-site Construction Engineering and Inspecting Services.

   B. (Remains unchanged) Post-Design Engineering Services
   RS&H will provide post-design engineering services including Project Management, Pre-Construction Support, Construction Support Services and Additional Tasks.

   C. (Remains Unchanged) Deliverables
   - Project photo/video log.
   - As-Built Plans

   D. **Additional Scope of Work**
   i) Onsite Foundation Installation Testing
   Meskel and Associates Engineering, Inc. (MAE) will provide Pile Driving Analysis Testing (PDA/dynamic pile testing) and review production pile driving logs. MAE's complete Scope of Services and Fee proposal is included as "Attachment "A".

   ii) Geotechnical Post-Design Services
   American Vibracore Services (AVS) will provide post-design geotechnical services including coordinating and developing production pile lengths based on PDA testing. AVS's complete Scope of Services and Fee proposal is included as "Attachment "B".

3. (Remains unchanged) Items not included in the Scope of Work are excluded. The following items are Specifically Excluded from the Scope of Work:

   - Additional costs and effort beyond 18 month Construction Schedule
   - Design Services of any kind

4. Additional Services can be provided, if necessary, by negotiated supplemental agreements.

II. (Remains unchanged) TIME SCHEDULE

1. Estimated 18 month Construction Schedule. Activities to be concluded within 1 month of Final Acceptance by the City.

III. ADDITIONAL FEE

The additional work described above will be performed for an Additional Fee of $92,980.28 - of which $35,730.28 is a Lump Sum Fee and $57,250.00 is a Limiting Amount Fee.

The work performed by American Vibracore Services will result in a zero-sum change. This Limiting Amount effort will be charged against the limiting amount balance of $25,870 from the original contract dated July 31st, 2017.

IV. NOTICE TO PROCEED

No additional effort described above on this project shall be performed until a contract has been executed and a NTP is issued which specifically authorizes such work, signified by a signed agreement with the Client.

Citv Exhibit B-5

CONTRACT FEE SUMMARY FORMAT FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Jacksonville Beach Pier Review, Design - Phase III - SA Geotech	**2. Contract Number** P-14-17
3. Name of Consultant RS&H Inc.	**4. Date of Proposal** 10-17-19

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$ 62.60	54	$ 3,380.40	
Principal	$ 91.40	0	$ 0.00	
Chief Engineer / Architect	$ 86.22	0	$ 0.00	
Senior Engineer	$ 65.69	0	$ 0.00	
Project Engineer / Architect	$ 53.95	0	$ 0.00	
Engineer (Registered)	$ 42.84	0	$ 0.00	
Designer / Tech (non-registered)	$ 32.31	0	$ 0.00	
Field Inspector / CBI	$ 33.29	0	$ 0.00	
Clerical	$ 24.48	18	$ 440.64	
TOTAL DIRECT LABOR	$7.00	72		$ 3,821.04
6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate 190.1 % x Total Direct Labor				$ 7,263.80
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 11,084.84
8. PROFIT: Labor Related Costs (Item 7		x	10%	$ 1,108.48

PART III - OTHER COSTS

9. Miscellaneous Direct		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Lump Sum)		
Meskel & Associates Engineering, Inc. (Geotechnical Construction Testing)	$ 23,536.96	
SUB-CONTRACT SUB-TOTAL		$ 23,536.96
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$ 35,730.28
11. REIMBURSABLE COSTS (Limiting Amount)		
Meskel & Associates Engineering, Inc. (Gotechnical Testing)	$ 57,250.00	
American Vibracore Servics, inc (Post-Design Services) *(Zero-Sum change order)*	*$ 25,870.00*	
SUB-TOTAL REIMBURSABLES		$ 57,250.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 92,980.28**

ATTACHMENT "A"

TEN YEARS 10

MAE

Meskel & Associates Engineering

Geotechnical • Environmental
Inspection • Testing

July 29, 2019
Revised: October 7, 2019

Mr. Thomas H. Goldsbury, P.E., C.B.O., Chief
City of Jacksonville Building Inspection Division
214 N. Hogan Street, Room 225
Jacksonville, Florida 32202

Subject: **Revised** Proposal for Dynamic Pile Testing Services
Jacksonville Beach Pier Improvements
Jacksonville Beach, Florida
MAE Proposal No. 017119.2

Dear Mr. Goldsbury:

MESKEL & ASSOCIATES ENGINEERING, PLLC (MAE) is pleased to present this proposal to provide Pile Driving Analysis Testing (PDA) (dynamic pile testing) services for the subject project. This proposal has been revised from our previous proposal of July 29, 2019 to correct our scope of work on this project.

Project information was provided by you and by Mr. Steven Starnes, P.E. of RS&H, Inc., the project Engineer of Record. We were provided with the project plans dated June 2019 that included the proposed construction and pile layout. We also received the project geotechnical report prepared by American Vibracore Services, Inc. dated May 17, 2019.

We understand that a total of 96 piles will be installed at 22 bents. The pile type will be a 24-inch square prestressed precast concrete pile. There will be 8 test piles that will be installed at Bents 14, 17, 20, 23, 26, 29, 32, and 34. Each test pile will be fully instrumented with PDA equipment to monitor the installation of the piles and to determine the pile length and driving criteria for the production piles. Our scope of services is summarized in the following list:

- To review plans, specifications, RFIs, and reports.
- To review contractor's pile installation plans, hammer submittal, provide comments, and perform preliminary WEAP analyses.
- To attend pre-piling meetings.
- To perform PDA on a total of eight test piles (one day initial drive, one day restrike, a total of 16 field days).
- To perform PDA restrike testing on production piles (we assume eight field days for PDA restrikes).
- To provide PDF copies of PDA results and analyses of test piles.
- To perform subsequent analyses (CAPWAP and WEAP analysis) and provide signed and sealed recommended production pile length and driving criteria letter for all 22 bents.
- To perform subsequent analyses and provide signed and sealed pile acceptance letter for production piles that were re-struck with PDA.
- To review production pile driving logs as driving progresses.
- Troubleshoot production pile driving problems and perform set-checks as needed.

We have assumed for this proposal that additional PDA measurements will be necessary for instrumented restrikes in case any test or production piles do not achieve the required Nominal Bearing Resistance (NBR) during initial driving. We have also assumed that one test pile will be installed per day. Pile logs for the test and production piles will be maintained by the CTQP Pile Diving Inspector from ETM. We understand our involvement is limited to only pile dynamic testing during the test pile and production pile programs.

Based on the scope of the services outlined above, we propose to complete our work for a fee of **$80,786.96**. A breakdown of this fee is shown on the attached MAE and Terracon Fee Summary sheets.

We appreciate this opportunity to provide this proposal for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact us.

Sincerely,
MESKEL & ASSOCIATES ENGINEERING, PLLC

P. Rodney Mank, P.E.
Principal Engineer

Ron Hodges
Director, Construction Services

Distribution: Mr. Thomas Goldsbury, P.E., C.B.O-City of Jacksonville One (1) e-mail copy

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL

1. Project Jacksonville Beach Pier Replacement-Dynamic Pile Testing Services	**2. Proposal No. / Contract No.** **017119**
3. Name of Consultant MESKEL & ASSOCIATES ENGINEERING	**4. Date of Proposal** 07/29/19

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$ 57.70	0	$ 0.00	0.00
Project Manager/Senior Engineer	$ 48.07	100	$ 4,807.00	4,807.00
Staff Engineer	$ 30.40	0	$ 0.00	0.00
Drafter	$ 23.00	0	$ 0.00	0.00
CTQP Pile Driving Inspector	$ 30.50	0	$ 0.00	0.00
CTQP Pile Driving Inspector - Overtime	$ 45.75	0	$ 0.00	0.00
Field Inspector	$ 20.50	0	$ 0.00	0.00
Clerical	$ 22.00	10	$ 220.00	220.00
TOTAL DIRECT LABOR	$ 45.70	110		$ 5,027.00

6. Overhead (Combined Fringe Benefit & Administrative) Overhead Rate	175 % x Total Direct Labor	$ 8,797.25
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)		$ 13,824.25
8. PROFIT: Labor Related Costs (Item 7)	x 10%	$ 1,382.43

PART III - OTHER COSTS

9. Miscellaneous Direct Costs		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Lump Sum)		
Terracon - Direct Labor	$ 8,330.28	
SUB-CONTRACT SUB-TOTAL		$ 8,330.28
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$ 23,536.96
11. REIMBURSABLE COSTS (Limiting Amount)		
Terracon-PDA of Test Piles, some Production Piles, Restrikes	$ 57,250.00	
SUB-TOTAL REIMBURSABLES		$ 57,250.00

PART IV - SUMMARY

12. TOTAL AMOUNT AMENDMENT NO. 0 (Lump Sum + Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 80,786.96**
13. CURRENT CONTRACT AMOUNT	
14. AMENDED CONTRACT AMOUNT	**$ 80,786.96**

Terracon

Jacksonville Beach Pier Improvements

PILE DRIVING ANALYSIS ESTIMATE

PEQ191135

PDA Testing								
	Description	Total Units	Type		Rate		Extended Cost
1	Dynamic load testing Engineer: Attend Pre-Piling Meeting including Travel	4	Hours	x	$155.61	=	$622.44
2	Dynamic load testing Engineer: Project Management, Consulting, Pile lengths, driving criteria letters for 22 bents	44	Hours	x	$155.61	=	$6,846.84
3	Administrative Assistant	10	Hours	x	$86.10	=	$861.00
					Subtotal Direct Labor	=	**$8,330.28**
4	PIP Submittal Review and Preliminary WEAP per each proposed hammer	1	Each	x	$850.00	=	$850.00
5	PDA results and subsequent analyses - 8 test piles	8	test pile	x	$750.00	=	$6,000.00
6	PDA results and subsequent analyses - production piles (assumed 4 piles to be restruck or instrumented)	8	pile		$500.00		$4,000.00
7	Daily PDA Equipment Rental	0	Days	x	$600.00	=	$0.00
8	PDA Field Testing including travel and equipment rental (8 Piles - Assumed 1 test pile per day)	16	Days	x	$1,600.00	=	$25,600.00
9	PDA Field Testing including travel and equipment rental Restrike Testing or Instrumented Production Pile (Assumed 2 days)	8	Days	x	$1,600.00	=	$12,800.00
10	Pile Preparation (Drilling Holes on the ground) requested on non-testing day including travel and pile preparation (Assuming 8 days)	16	Days	x	$500.00	=	$8,000.00
					Subtotal Miscellaneous Direct Costs		**$57,250.00**
					Total Fee		**$65,580.28**

ATTACHMENT "B"

AMERICAN VIBRACORE
S E R V I C E S

Name of Project: Post Design Geotechnical Services
Location of Project: Jacksonville Beach Pier, Jacksonville, FL
Proposal No.: 19-1022.00

This agreement is made and entered into between RS&H, Inc. and AVS on the 22nd day of October, 2019.

CLIENT:
Company/Business Name: RS&H, Inc.
Primary Contact Name: Mr. Steven Starnes
Business Address: 10748 Deerwood Park Blvd. South
City, State and Zip: Jacksonville, FL 32256
Email: steven.starnes@rsandh.com

Services to be Performed

Description	Rate		Qty.	Total
Principal Engineer	$131.46	Hour	95	$12,489.00
Project Manager	$90.75	Hour	60	$5,445.00
Staff Engineer	$61.05	Hour	120	$7,326.00
Clerical	$30.50	Hour	20	$610.00
			TOTAL	**$25,870.00**

☐ **I CERTIFY THAT THE CLIENT BILLING INFORMATION LISTED ABOVE IS ACCURATE**

CLIENT BILLING INFORMATION (IF DIFFERENT FROM ABOVE):
Company: _____
Attention: _____ **Title:** _____
Address: _____
City, State, Zip: _____
Phone: _____ **Fax:** _____
Email: _____
Permit No.: (please fill in) _____

PAYMENT METHOD *(Note: Credit Card Charges will include a 2.5% administrative fee)*
☐ **Check payable to AVS / Check Number:** _____
☐ **Visa** ☐ **Master Card** ☐ **Discover** ☐ **American Express**
Credit Card Number _____ **CVV Code** _____ **Exp. Date** _____
Card Holder Name _____ **Card Holder Signature** _____

PAYMENT AUTHORIZATION
PLEASE CHECK THE APPLICABLE BOX: ☐ **Client** ☐ **Authorized Agent**

Client Signature: _____ **Print Name:** _____ **Title:** _____ **Date:** _____

Signature: _____ **Print Name:** Fred Kaub, P.G. **Title:** CEO **Date:** 10/22/19