PORT & MARINE SERVICES
201 William Street
Key West, FL 33040

ADDENDUM NO. 1

HALF SHELL RAW BAR SEAWALL REPAIRS
KEY WEST HISTORIC SEAPORT
ITB #17-002

The information contained in this Addendum adds information to be included in the Bid and is hereby made a part of the Contract Documents. The referenced bid package is hereby addended in accordance with the following items:

QUESTIONS and CLARIFICATIONS:

1. CONCRETE VOLUME: Because the exact configuration (volume) of the voids would it be possible to quantify the volume of concrete required for the estimate?

   For the estimate please assume 73 CY of FDOT Type IV concrete. Changes in volume will be accounted for on a unit price basis.

2. JOIST BRACKET: Can the contractor provide an alternate to the joist bracket shown on Detail 3, Page S4.0?

   The contractor may submit a shop drawing for the proposed substitution that will be evaluated by the engineer of record.

3. PILE INSTALLATION: Can the proposed support piles be located away from the restaurant overhang a sufficient distance to miss the overhang and eliminate the need to predrill the pile holes at an angle?

   The contractor should assume for the estimate that the piles will need to be predrilled at an angle and "stood-up" under the overhang. The contractor shall assume no changes to the overhang or pile placement will be approved. The winning bidder will be required to provide engineered shop drawings that describe the shoring plans for the overhang for this project.

4. FORMWORK: Does the form work need to extend into the basin floor or just set on the bottom.

The contractor should remove all debris, loose sediments and silt from the toe of the existing wall. The formwork should extend to the basin "hard-bottom" and be sufficiently secured so that concrete placed will flow into the voids in the existing wall.

5. COMMERCIAL DIVING: Does the contractor need to use commercial divers for the project?

   YES. The contractor will be required to use commercial divers in accordance with OSHA guidelines for submerged construction activities (i.e. drilling and setting the reinforcement, formwork, etc.) per 29CFR-1910, Subpart T (Commercial Diving Operations). It is expected that not all in-water activities will require divers and should be managed accordingly.

   https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=10139

6. BARGES: Can the barge be spudded in the basin?

   Contractor shall coordinate with the City prior to locating a barge in the basin but in general spudding will be allowed.

7. CONSTRUCTION COST ESTIMATE: Is there a cost estimate for this project?

   The Engineers Estimate of Probable costs is $250,750.

8. Seawall deficiencies list/plan attached for reference.
9. Reference photographs of seawall attached.
10. Mandatory pre-bid sign-in sheet attached.

INVITATION to BID:

1. Bids will be received at the office of the City Clerk, **3126 Flagler Avenue,** Key West, Florida.

BID FORM:

1. New Bid Schedule attached.

All other elements of the Contract and Bid documents, including the Bid Date shall remain unchanged.

All Bidders shall acknowledge receipt and acceptance of this **Addendum No. 1** by submitting the addendum with their proposal. Proposals submitted without acknowledgement or without this Addendum may be considered non-responsive.

_____ _____

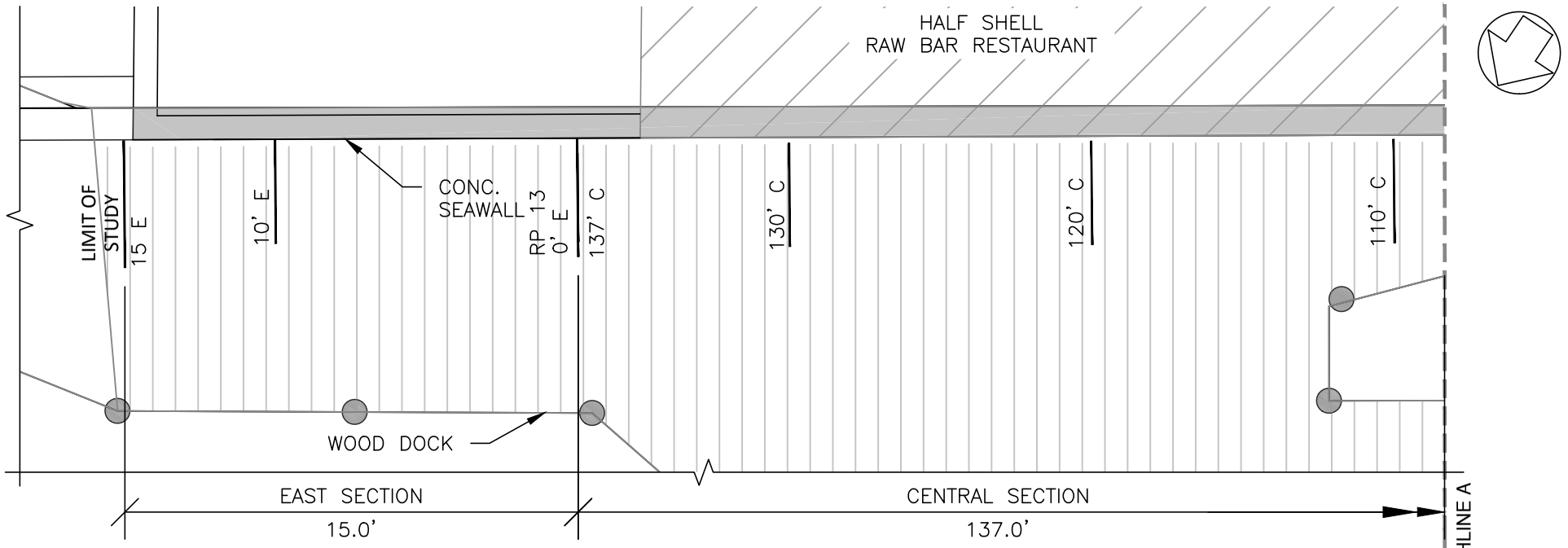
Signature Name of Business

Table 3.4.1-1
Seawall Deficiencies List

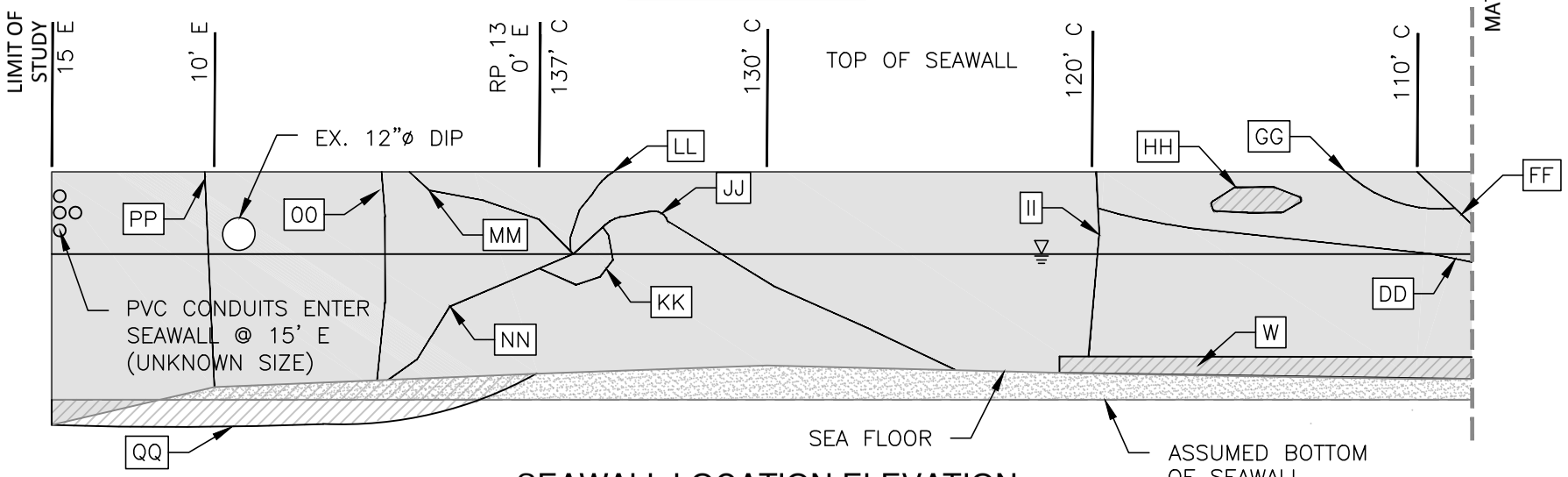
Defect	Defect Type	Location	Approx. Dist. from Bot. (ft)	L (in)	W (in)	Depth (in)	Volume (cft)
A	Spall	7' W	1	21	16	6	1.167
B	Spall/Scour	8' W thru 12' W	0	72	6	8	2.000
C	Spall	12' W	2	27	17	36	9.563
D	Spall	14' W thru 20' W	0 to 1	78	5	8	1.806
E	Spall	19' W	2	31	15	7	1.884
F	Spall/Scour	20' W thru 30' W	0	120	6	8	3.333
G	Spall	26' W thru 29' W	2	48	8	9	2.000
H	Spall	31' W	2	4	8	3	0.056
I	Spall	32' W	2	11	6	3	0.115
J	Spall	38' W	3	12	17	17	2.007
K	Spall	42' W	2	14	1	6	0.049
L	Spall	63' W thru 2' C	6	36	18	8	3.000
M	Spall	2' C	2	2	2	2	0.005
N	Spall	4' C thru 5' C	2	4	7	3	0.049
O	Spall/Scour	60' W thru 17' C	0 to 1	348	7	15	21.146
P	Spall	7' C	2	5	5	3	0.043
Q	Spall	7' C thru 12' C	3	65	9	31	10.495
R	Spall	20' C	2	3	3	5	0.026
S	Spall/Scour	29' C thru 35' C	0	60	12	12	5.000
T	Spall	29' C thru 35' C	2	66	26	24	23.833
U	Spall	33' C	5	7	5	3	0.061
V	Spall/Scour	41' C thru 57' C	0 to 3	216	36	30	135.000
W	Spall/Scour	57' C thru 121' C	0 to 2	732	13	13	71.590
X	Crack	52' C	2 to 5	60	0.500	N/A	N/A
Y	Crack	48' C thru 52' C	5 to 6	36	0.500	N/A	N/A
Z	Crack	52' C thru 57' C	5	36	0.500	N/A	N/A
AA	Crack	52' C thru 67' C	5	120	0.028	N/A	N/A
BB	Crack	67' C	1 to 5	60	0.500	N/A	N/A
CC	Crack	70' C thru 80' C	4	108	0.250	N/A	N/A
DD	Crack	100' C thru 120' C	1 to 4	240	0.063	N/A	N/A
EE	Crack	101' C	5 to 6	24	0.063	N/A	N/A
FF	Crack	107' C thru 110' C	1 to 6	120	0.125	N/A	N/A
GG	Crack	110' C	6	21	0.125	N/A	N/A
HH	Spall	115' C	5	25	12	6	1.042
II	Crack	120' C	0 to 6	6	0.500	N/A	N/A
JJ	Crack	124' C thru 133' C	0 to 4	79	0.125	N/A	N/A
KK	Crack	136' C	3	23	0.125	N/A	N/A
LL	Crack	136' C	3 to 6	24	0.125	N/A	N/A
MM	Crack	136' C thru 5' E	3 to 6	64	0.125	N/A	N/A
NN	Crack	136' C thru 5' E	0 to 3	60	0.125	N/A	N/A
OO	Crack	5' E	0 to 6	72	0.250	N/A	N/A
PP	Crack	10' E	0 to 6	72	0.250	N/A	N/A
QQ	Spall/Scour	0' E thru 15' E	0	180	19	47	93.021

Notes: 1) See Appendix B Plan/Elevation views for drawings of defects.

Subtotal Volume of Spalls/Scour	**388**	**cf**	**14.4**	**cy**
Subtotal Length of Cracks	**102**	**ft**		
Subtotal Area of Spalls/Scour	**213**	**sf**		
Subtotal Area of Formwork	**256**	**sf**		
Assume 20% Contingency for Repair Quantities				
Total Volume of Spalls/Scour	**466**	**cf**	**17**	**cy**
Total Length of Cracks	**125**	**ft**		
Total Area of Spalls/Scour	**256**	**sf**		
Total Area of Formwork	**310**	**sf**		



SEAWALL PLAN

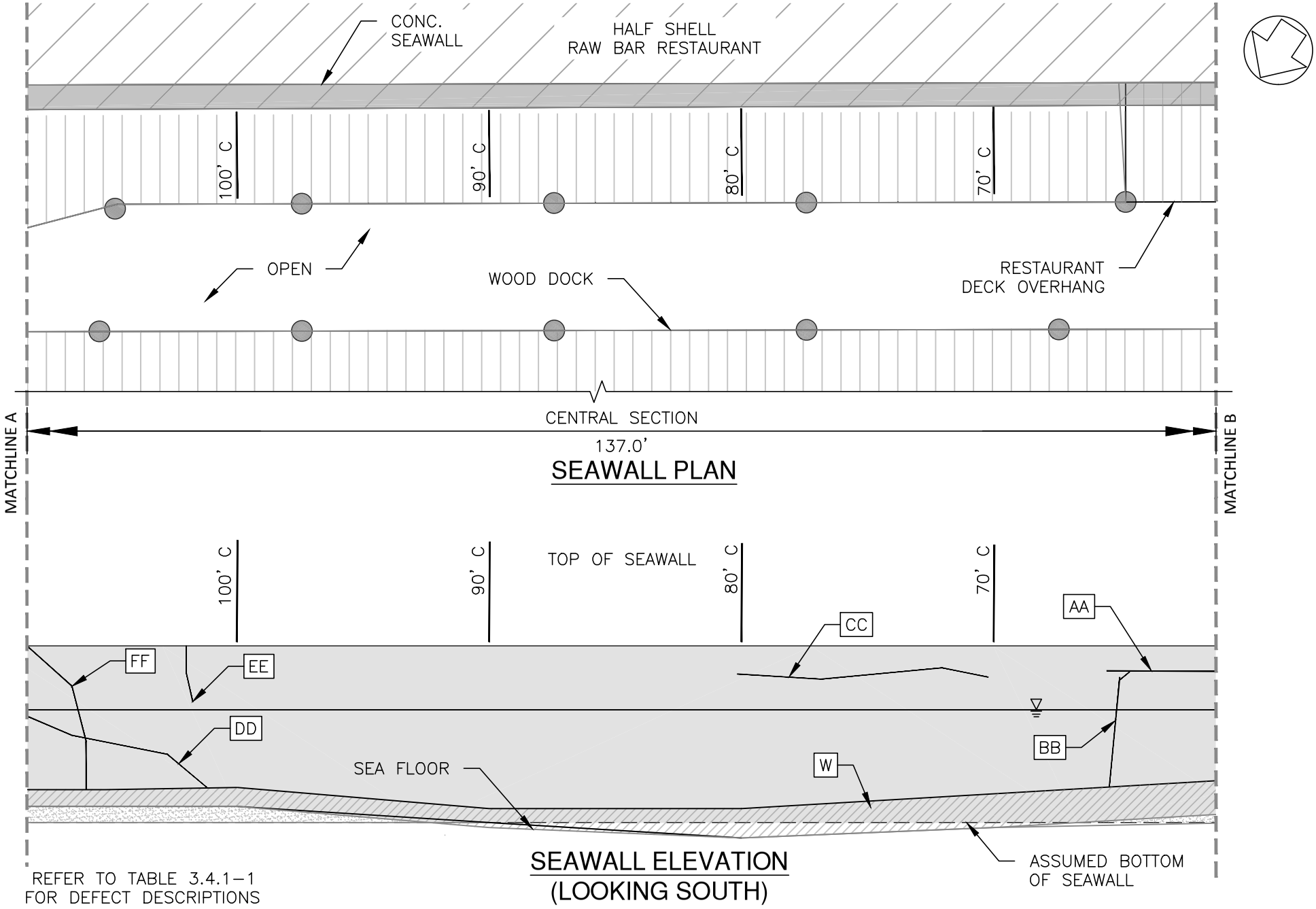


SEAWALL LOCATION ELEVATION (LOOKING SOUTH)

REFER TO TABLE 3.4.1–1
FOR DEFECT DESCRIPTIONS

ATKINS
2639 N. Monroe St. Building C - Tallahassee, Florida 32303 - 850.575.1800
FBPR Certificate of Authorization No. 24

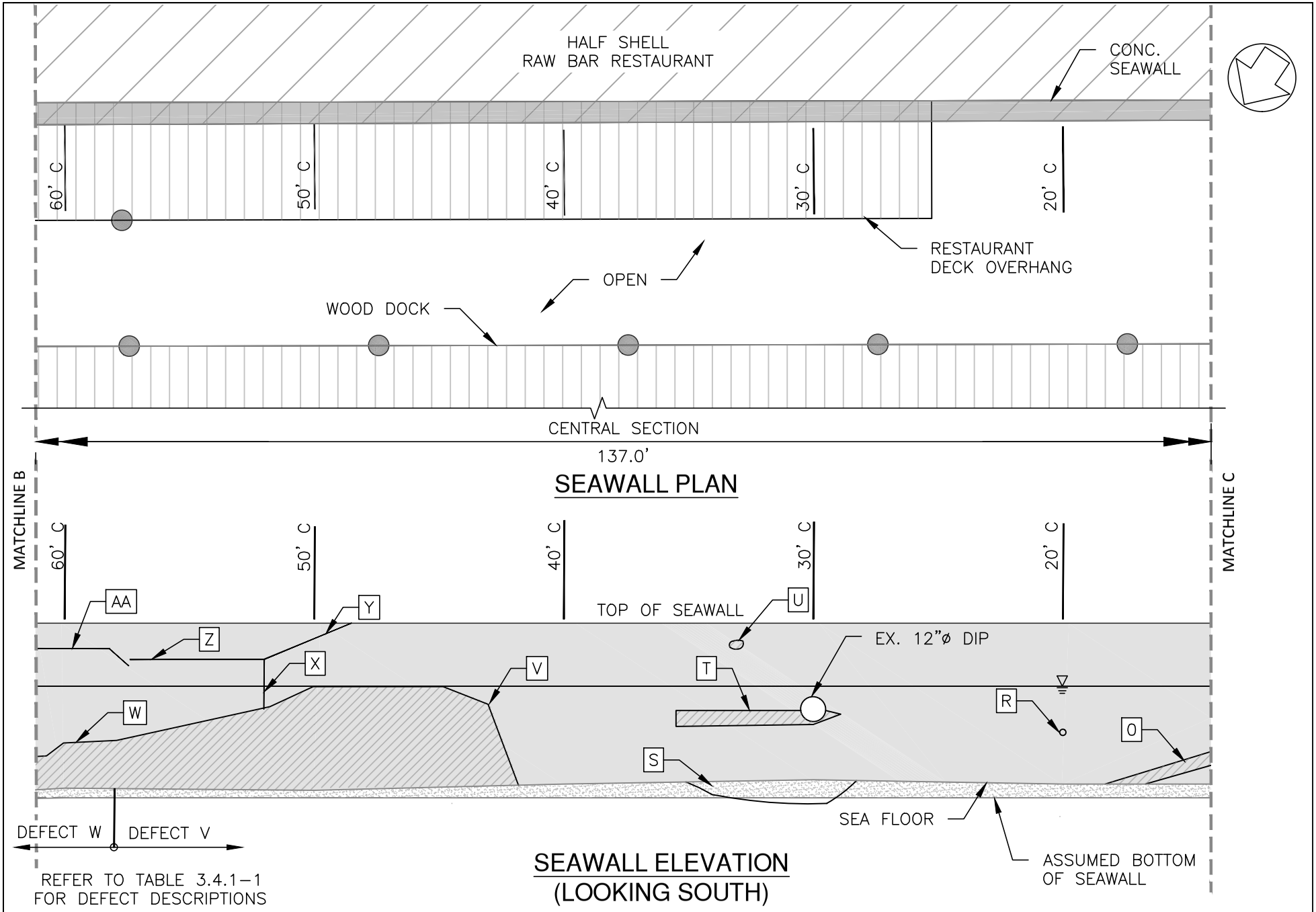
SEAWALL PLAN AND ELEVATION 1



REFER TO TABLE 3.4.1-1
FOR DEFECT DESCRIPTIONS

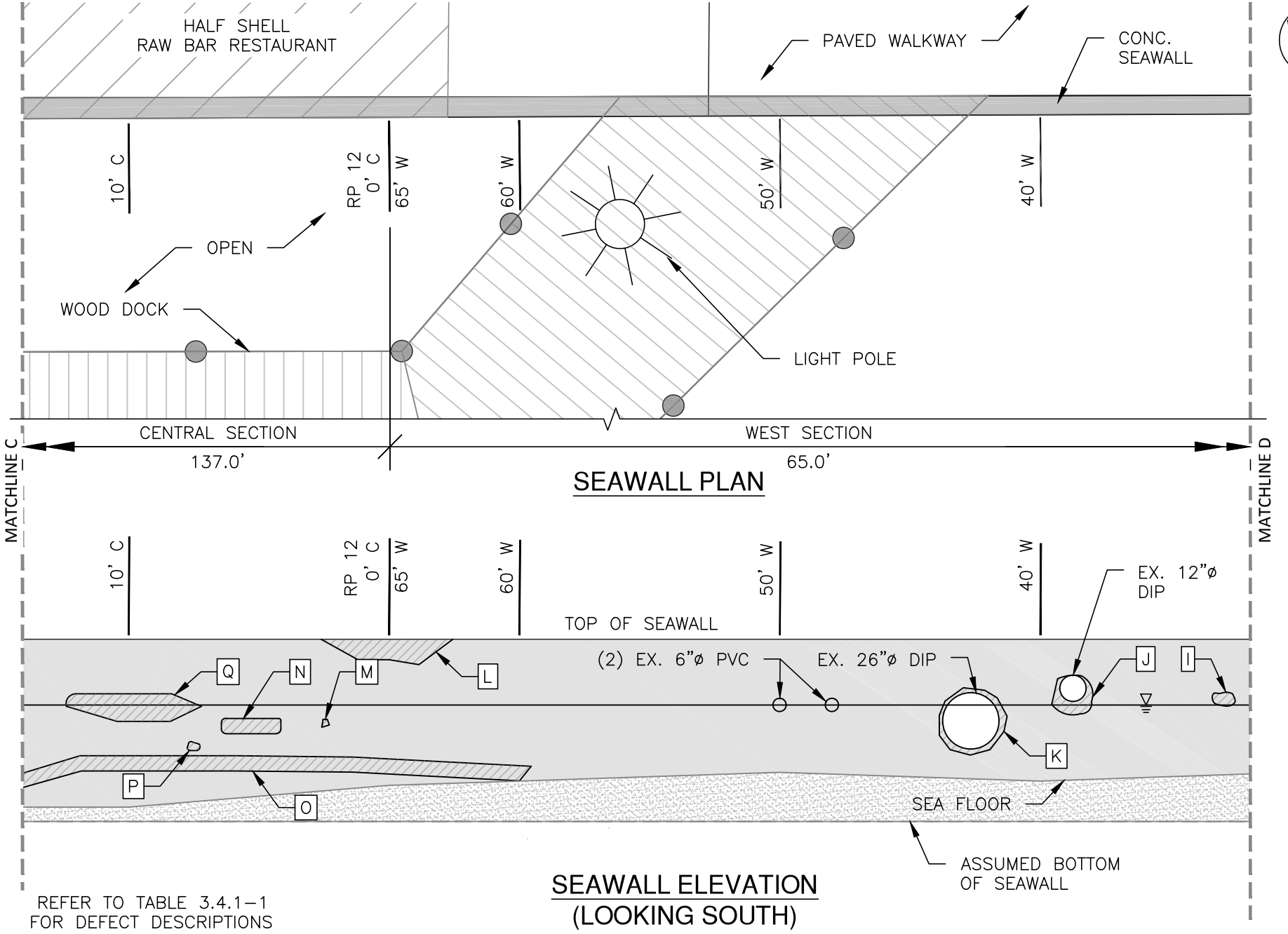
ATKINS
2639 N. Monroe St. Building C - Tallahassee, Florida 32303 - 850.575.1800
FBPR Certificate of Authorization No. 24

SEAWALL PLAN AND ELEVATION 2



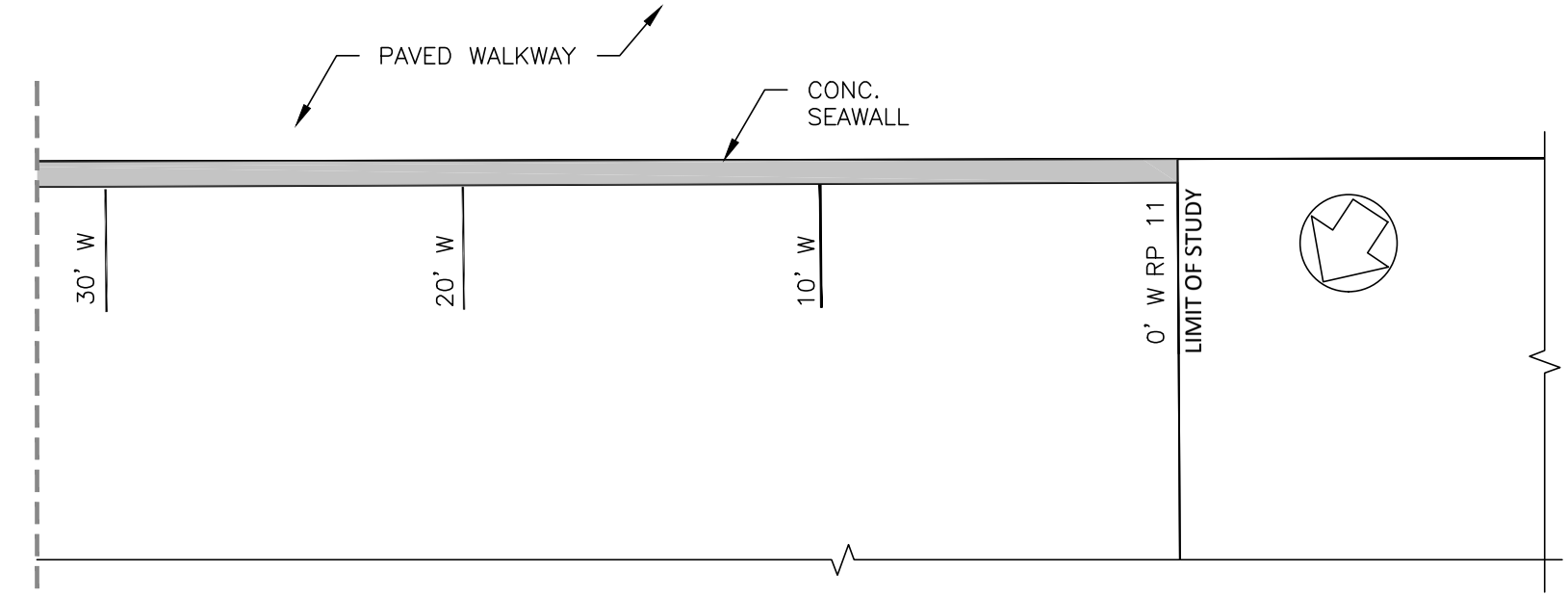
ATKINS
2639 N. Monroe St. Building C - Tallahassee, Florida 32303 - 850.575.1800
FBPR Certificate of Authorization No. 24

SEAWALL PLAN AND ELEVATION 3

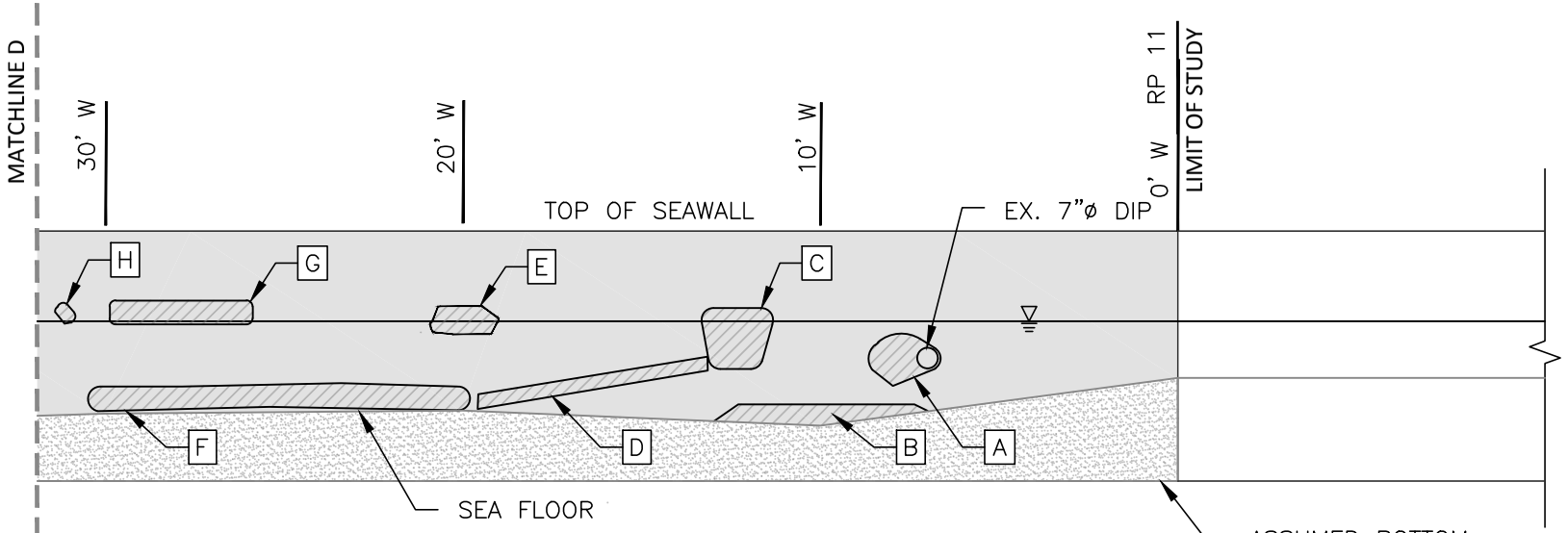


ATKINS
2639 N. Monroe St. Building C - Tallahassee, Florida 32303 - 850.575.1800
FBPR Certificate of Authorization No. 24

SEAWALL PLAN AND ELEVATION 4



SEAWALL PLAN



REFER TO TABLE 3.4.1-1 FOR DEFECT DESCRIPTIONS

SEAWALL ELEVATION (LOOKING SOUTH)

ATKINS
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SEAWALL PLAN AND ELEVATION 5

DWG 5 OF 5

Appendix A – Selected Inspection Photographs

Photo 1: Looking east from Sta 0’ W

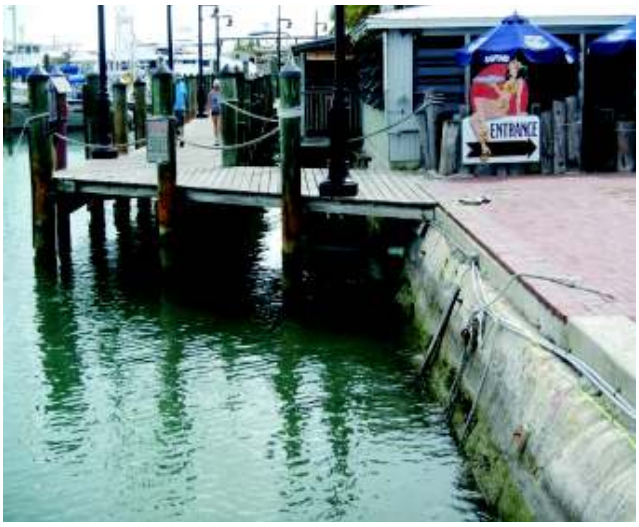

Photo 2: Looking east from Sta 0’ W

Photo 3: Looking east from Sta 50’ W

Photo 4: Looking east from Sta 50’ W

Photo 5: Looking southeast from Sta 20’ C

Photo 6: Looking west from Sta 40’ W

Photo 7: Looking W from Sta 60' C

Photo 8: Looking east from Sta 30' C

Photo 9: Cavaties at waterline at Sta 15' W

Photo 10: Spalling and cracks at Sta 65' W

Photo 11: Wall surface condition at Sta 10' C

Photo 12: Cracking in wall at Sta 50' C

Photo 13: Cracking in wall at Sta 58’ C

Photo 14: Cracking from Sta 52’ C thru Sta 58’ C

Photo 15: Existing outfall at Sta 60’ C

Photo 16: Cracking in wall at Sta 110’ C

Photo 17: Cracking in wall at 130’ C

Photo 18: Cracking in wall at Sta 133’ C

Photo 19: Spalling on wall bot at Sta 10’ C

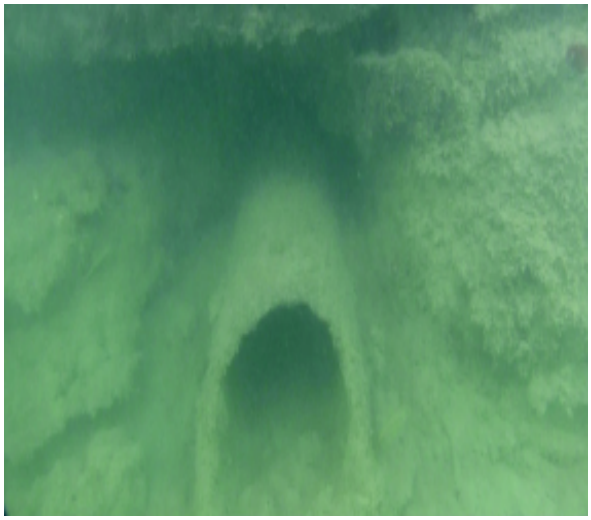

Photo 20: Outfall pipe at Sta 30’ C

Photo 21: Large cavities at Sta 50’ C

Photo 22: Large cavities at Sta 60’ C

Photo 23: Large cavities at Sta 110’ C

Photo 24: Large cavities at Sta 10’ E

Photo 25: Condition of restaurant deck overhang

Photo 26: Condition of restaurant deck overhang

Photo 27: Utility penetrations at Sta 50' W

Photo 28: Utility penetrations at Sta 50' W

Photo 29: Utility penetrations at Sta 15' E

Photo 30: Utility penetrations at Sta 15' E

Half Shell Raw Bar Seawall Repairs
Key West Historic Seaport
ITB #17-002
Mandatory Pre-Bid Meeting SIGN-IN Sheet
November 30, 2016
2:30 PM

NAME / COMPANY	CONTACT #	EMAIL
Karen Olson/City of Key West	305-809-3863	Kolson@cityofkeywestfl.gov
Charles Leatherman SeaTech	305-748-7191	CharlesL@SeaTech.cc
STUART MCGAHEE TETRA TECH	772.781.3404	stuart.mcgahee@tetratech.com
Will Campbell Bella Construction	305-763-8330	will@concreteplus.com
Paul Waters DNHT	305-797-1019	Paulw@dnhiggins.com
John Reams Reams Construction Co.	305 975-8878	JReams@reamsconstruction.com

BID SCHEDULE

HALF SHELL RAW BAR SEAWALL REPAIRS

LUMP SUM BID PRICE
Bidder will complete the Work in accordance with the Contract Documents for a fixed fee price.

1. Mobilization, General Conditions, Permit Fees and Demobilization

1 LS $_____

2. Temporary demolition and replacement of existing wood deck and utilities that would interfere with seawall repairs (includes all labor, equipment and disposal for a complete product)

1 LS $_____

3. Concrete seawall fascia repair and cast-in-place concrete layer with GFRP reinforcement and formwork (includes all labor, equipment and material for a complete, functional product)

73 CY at $_____ per CY LS $_____

4. Installation of timber piles and all connections to existing restaurant overhang timber accessories throughout the existing wood decking (includes all labor, equipment and material for a complete, functional product)

1 LS $_____

5. Installation of timber accessories connecting the new seawall to existing wood decking (includes all labor, equipment and material for a complete, functional product)

1 LS $_____

6. General Allowance (only to be used with CITY's written directive)

1 LS $ **15,000.00**

TOTAL OF ALL EXTENDED LINE ITEMS LISTED ABOVE:

Total of lump sum items 1 - 6 $_____

_____Dollars & _____Cents
(amount written in words)

NOTE: THE TOTAL BID WILL BE THE BASIS OF EVALUATING LOW BIDDER AND BASIS OF AWARD