### REQUEST FOR BID 2018-03 GROIN REPAIR & MAINTENANCE PROJECT

## Town of Pawleys Island 323 Myrtle Avenue, Pawleys Island, SC 29585

The Town of Pawleys Island is seeking bids for the Pawleys Island Groin Repair and Maintenance Project. Work to include the provision of labor, materials, equipment, and services required to complete groin repairs at the Town of Pawleys Island, Georgetown County, South Carolina. The Work is generally described as follows:

The project's scope of work entails repair to 22 of 23 existing treated timber pile groins. The cumulative repair scope includes:

- Reinforcement of ~1450 linear feet of sheet piles
- Replacement of ~620 ft of timber walers
- Replacement/reinforcement of 32 piles
- Repair of ~50 ft of damaged sheet

#### Sheet Pile Reinforcement

The majority of the sheet repair can be accomplished by installing 2x8 "sloppy-V" tongue and groove sister sheets on either side of the existing sheets and thru bolting. Sister sheeting will be supported by vertical 4x6 posts spaced 48" on center, staggered on either side of the groin. CSE recommends that at least 5 vertical feet of sheets be installed in a horizontal direction spanning the length needing repair. 5/8" galvanized thru bolts with oversized washers (minimum 2.5") shall be used to connect the posts and sheets. A bolt shall be installed at the ends of every board, and thru every other board thru the field. The bolt pattern should be staggered on either side of the groin so that there is no more than 4 horizontal ft of board without a bolt.

#### Waler Repair

Damaged waler sections shall be removed and replaced with 8x10 treated timbers, thru-bolted with 5/8" galvanized bolts with minimum  $2 \frac{1}{2}$ " washers.

#### Sheet Pile Repair

Groins 16 and 22 require more significant repairs to the sheets, as portions of the old sheeting are completely missing. In these areas, the remaining old sheets shall be cut to leave a level surface to butt-joint new sheets in place. New sheeting shall be installed using treated timber approximately with thickness of 2.5-3.0 inches and minimum width of 8 inches. Any gaps between the existing waler and new sheeting shall be shimmed. 2x12 boards with 5/8" thru bolts shall be used to join the old and new sections. A 2x6 board shall be thru-bolted under the waler.

#### Pile Repair/Replacement

A total of 32 piles shall be reinforced or replaced using 8x10 treated lumber or 10-12" timber piling. Piles should be thru-bolted using ¾" galvanized timber bolts with washers.

#### **Materials**

All timber shall be No.2 Marine Grade lumber treated at 2.5 pcf CCA. Any cuts to installed lumber must be treated with copper naphthenate prior to installation, in accordance with AWPA Standard M4. All hardware shall be hot-dipped galvanized meeting ASTM A153, ASTM A653, Class G185.

Interested contractors are asked to provide bids for completion of the Work in accordance with the Contract Documents. Digital copies of the Contract Documents are available on the website <a href="https://www.townofpawleysisland.com/bids-rfps/">https://www.townofpawleysisland.com/bids-rfps/</a>

Each bidder is required to make their own individual site inspection and become familiar with the locations, conditions and requirements prior to making a bid submittal.

Sealed bids will be received at the Town of Pawleys Island Town Hall, *c/o Ryan Fabbri, 323 Myrtle Avenue, Pawleys Island, SC 29585 until* **3:00 p.m. on Tuesday, November 6, 2018**, at which time and place bids will be publicly opened and read aloud. Any bid received after said time will be returned unopened.

Please email any questions to Steven Traynum, Project Manager, at straynum@coastalscience.com

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#### **BID REGISTRATION**

You MUST register using this form in order to receive notice of any addenda to these documents. Please email the completed form to <a href="mailto:info@townofpi.com">info@townofpi.com</a> as soon as possible. It is the vendor's responsibility to verify if addenda have been issued.

Bid Number and Title: 2018-03, Groin Repair and Maintenance Project

The Town of Pawleys Island is seeking bids for the Pawleys Island Groin Repair and Maintenance Project. Work to include the provision of labor, materials, equipment, and services required to complete groin repairs at the Town of Pawleys Island, Georgetown County, South Carolina. The Work is generally described as follows:

The project's scope of work entails repair to 22 of 23 existing treated timber pile groins. The cumulative repair scope includes:

- Reinforcement of ~1450 linear feet of sheet piles
- Replacement of ~620 ft of timber walers
- Replacement/reinforcement of 32 piles
- Repair of ~50 ft of damaged sheet

Receiving Period: November 6, 2018 Prior to 3:00 p.m.

Bid Opening: November 6, 2018 @ 3:00 p.m.

### BIDDER REGISTRATION EMAIL COMPLETED FORM BACK IMMEDIATELY

EMAIL: info@townofpi.com

Company Name:
Contact Person:
Mailing Address:
City: State: Zip Code:
Phone: Fax: E-mail:

BIDDER INSTRUCTIONS AND GENERAL INFORMATION BIDDER INSTRUCTIONS: To ensure acceptance of this bid, follow these instructions.

# BID DOCUMENTS MUST BE DELIVERED TO TOWN HALL PRIOR TO 3:00 P.M. ON THE DATE SPECIFIED. THERE WILL BE NO EXCEPTIONS.

- 1. **EXECUTION OF BID:** Bid must contain an original signature of an authorized representative in the space provided on the signature page. Bid must be typed or printed in black ink. Erasable ink is not permitted. Corrections made by bidder to any bid entry must be initialed by the person who signs the bid.
- 2. BID OPENING: It is the responsibility of the bidder to assure that their bid is delivered at the proper time and place prior to the bid opening. All bid openings shall be public, at 3:00 p.m., on the date specified in the Notice to Bidders. Bids, which for any reason are not so delivered, will not be considered. BID SUBMITTAL FORMS USING FACSIMILE OR EMAIL WILL NOT BE ACCEPTED.

NOTE: Bidders may call the Town Hall for bid results. The telephone number is (843) 237-1698. Bid files may be examined during normal working hours by appointment.

- 3. **TAXES:** Bidders are responsible for the payment of any applicable taxes that are connected to the purchase of any materials or subcontractors used in the execution of this bid.
- 4. **DISCOUNTS:** Bidders may offer a cash discount for prompt payment; however, such discounts shall NOT be considered in determining the lowest net cost for bid evaluation purposes. Bidders are encouraged to reflect cash discounts in the unit prices quoted.
- 5. **MISTAKES:** Bidders are required to examine the specifications, delivery schedule, bid prices and all instructions pertaining to the requirements of this bid. Failure to do so will be at bidder's risk. In case of a mistake in extension of a unit price, the unit price will govern. Corrections made by bidder to any bid entry must be initialed by the person who signs the bid.
- 6. **INVOICING AND PAYMENT:** The successful bidder shall submit a properly certified invoice to the Town at the prices bid. An original invoice shall be submitted to the Town Clerk at 323 Myrtle Avenue, Pawleys Island, South Carolina, 29585. The vendor shall include the bid number and/or the purchase order number on all invoices. Invoices will be processed for payment when approved by the user department.

- 7. **CONFLICT OF INTEREST:** All bidders must disclose, with their bid, the name of any officer, director or agent who is also an employee of the Town or any of their agencies. Furthermore, all bidders must disclose the name of any Town employee who owns, directly or indirectly, any interest of any amount in the bidder's firms or any of their branches.
- 8. **WARRANTY:** Unless otherwise specified, the bidder agrees that the services furnished under this bid shall be covered by the most favorable commercial warranty the bidder gives to any customer for comparable services, and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Town by any other provision of this bid.
- 9. **ADDENDUM:** Any changes in the bid shall be made in the form of a written addendum by the User Department. No other person shall be authorized to make changes verbally or in writing. If an addendum is issued, the addendum sheet must be signed by the bidder and faxed to (843) 869-3855.
- 10. **LIABILITY:** The vendor shall hold and save the Town, its officers, agents and employees harmless from liability of any kind in the performance of this bid and against claims by third parties resulting from the supplier's breach of contract or the supplier's negligence.
- 11. **PATENTS AND ROYALTIES:** The bidder, without exception, shall indemnify and save harmless the Town and its employees from liability of any nature or kind, including cost and expenses for, or on account of, any copyrighted, patented or non-patented invention, process, or article manufactured and used in the performance of this bid. If the bidder uses any design, device or material covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost arising from the use of such design, device or material in any way involved in the work.
- 12. **SEALED BIDS:** All bid submittals must be completed and submitted in a sealed parcel. (DO NOT INCLUDE MORE THAN ONE BID SUBMITTAL PER ENVELOPE. BID SUBMITTAL SHALL INCLUDE ONE (1) ORIGINAL) The Original bid submittal(s) shall be submitted on the forms provided by the Town of Pawleys Island. All bids are subject to the conditions herein; failure to comply will subject bid to rejection.

#### **GENERAL INFORMATION**

- 1. Contractor shall furnish all labor, machinery, superintendence, equipment and all materials necessary to complete this project in accordance with the contract documents.
- 2. This project may consist of, but not be limited to: repair of groins, and the labor and materials to perform the work. The work performed under this Contract shall include, but may not be limited to: the furnishing of all labor, materials, equipment and services, whether specifically mentioned or not, that is required to complete the Construction of the Work of the project. All requirements of the State of South Carolina and all pertinent administrative regulations shall apply to this project as if herein written out in full.
- 3. **DEFINITIONS:** The term "Town" means the Town of Pawleys Island, South Carolina, and its authorized designees, agents or employees.
- 4. **AWARD(S):** The award of this bid shall be based on low bid meeting specifications and other criteria as specifically called out in this document. As the best interest of the town may require, the right is reserved to make award(s) by individual item, group of items or as indicated in the bid form; to reject all bids or waive any minor irregularities or technicalities in bids received. This solicitation does not commit the Town to award a vendor or to pay for any costs incurred in the preparation of the bid; or to procure or contract for any articles of goods or services. In determining the lowest responsive and responsible bidder, in addition to price, the following may be considered:

The ability, capacity, equipment and skill of the bidder to fulfill the contract. Whether or not the bidder can fulfill the contract within the time specified, without delay or interference. The character, integrity, reputation, judgment, experience and efficiency of the bidder. The previous and existing compliance by the bidder with laws and ordinances relating to the contract. The sufficiency of the financial resources to fulfill the contract to provide the goods and/or services. The quality, availability and adaptability of the suppliers or contractual services to the particular use required. The ability of the bidder to provide future maintenance and service, as required or needed. The number and scope of conditions attached to the bid.

- 5. **NON-CONFORMANCE TO BID CONDITIONS:** Services not delivered as per delivery date in bid and purchase order may result in bidder being found in default, in which event any and all re-procurement costs may be charged against the defaulting vendor. This non-conformance to bid conditions may result in immediate cancellation of the purchase order.
- 6. **ASSIGNMENT:** Any contract issued pursuant to this bid and the monies which may become due herein is not assignable except with the prior written approval of the Town Administrator.

- 7. **DISPUTES:** In the event of any doubt or difference of opinion as to the methods provided herein, or the level of performance rendered, the decision of the user department director shall be final and binding on both parties.
- 8. **PLACING OF ORDERS:** The award of this bid does not constitute an order. Before any services can be performed, the successful bidder must receive written or oral notification in accordance with the practices of the User Department.
- 9. **PRECEDENCE:** Any requirement set forth in any section of the bid documents shall be binding as if called for by all sections. If there is a difference in the terms anywhere in this document, the most restrictive shall prevail.
- 10. **ADDITIONS/REVISIONS/DELETIONS:** Additions, revisions or deletions to the general conditions, specifications or bid price sheets that change the intent of the bid will cause the bid to be non-responsive and the bid will not be considered. The Town Administrator shall be the sole judge as to whether or not any addition, revision or deletion changes the intent of the bid.
- 11. **TERMINATION/SUSPENSION:** The Town Administrator reserves the right to terminate or suspend the award of this bid, in whole or in part, when it is in the best interest of the Town to do so. The Town Administrator will notify the vendor, in writing, of any such action with notice of the effective date of termination or suspension. This notice shall also specify the state of the work at the time of termination or suspension. If the User Department determines that the performance of the vendor does not comply with the bid requirements, the division may:
  - a. Immediately suspend the work; and
  - b. Notify the vendor of the non-performance with a requirement that the deficiency be corrected within ten (10) days of notification.
- 12. **PLANS AND SPECIFICATIONS:** The specifications and other bid documents upon which the prices in the vendor's bid proposal are based on, are hereby made a part of the purchase order by reference hereto.
- 13. **PERFORMANCE AND PAYMENT BOND:** If a bond is required, it will be called out in the Special Conditions section of the bid. The vendor shall furnish a performance and payment bond, in an amount equal to the amount awarded, as security for the faithful performance and payment of all the vendor's obligations under the bid documents. The bond shall remain in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the bid documents. All bonds shall be in the form prescribed by the bid document except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by Audit Staff,

Bureau of Government Financial Operations, U.S. Treasury Department and A.M. Best rated A VIII or better.

14. **UNAUTHORIZED ALIEN(S):** The vendor agrees that unauthorized aliens shall not be employed nor utilized in the performance of the requirements of this solicitation. The Town shall consider the employment or utilization of unauthorized aliens a violation of Section 274A(e) of the Immigration and Naturalization Act (8 U.S.C. 1324a). Such violation shall be cause for unilateral termination of this Agreement by the Town.

Employers may avail themselves of a program by the U.S. Immigration and Customs Enforcement called E-Verify. E-Verify is an Internet-based system operated by U.S. Citizenship and Immigration Services (USCIS), part of the Department of Homeland Security (DHS), in partnership with the Social Security Administration (SSA). E-Verify is currently free to employers. E-Verify provides an automated link to Federal databases to help employers determine employment eligibility of new hires and the validity of their Social Security numbers.

If your company wishes to avail themselves of this program, you can register online for E-Verify at https://www.vis-dhs.com/EmployerRegistration, which provides instructions for completing the registration process. At the end of the registration process, you will be required to sign a Memorandum of Understanding (MOU) that provides the terms of agreement between you as the employer, the SSA, and DHS. An employee who has signatory authority for the employer can sign the MOU. Employers can use their discretion in identifying the best method by which to sign up their locations for E-Verify. To find out more about E-Verify, please visit www.dhs.gov /e-verify or contact USCIS at 1-888-464-4218.

- 15. **ANNUAL APPROPRIATIONS:** The vendor acknowledges that the Town, during any fiscal year, shall not expend money, incur any liability, or enter into any agreement which, by its terms, involves the expenditure of money in excess of the amounts budgeted or the reduction of revenues for those budgeted agreements that may be available for expenditure during such fiscal year. Any agreement, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such agreement. Nothing herein contained shall prevent the making of agreements for a period exceeding one year, but any agreement so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years. Accordingly, the Town's performance and obligation to pay under this agreement is contingent upon annual appropriation.
- 16. The Town does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or in the provision of goods and services.

#### **SPECIAL CONDITIONS**

- 1. **CONTAMINATION:** Any equipment that is leaking fuel, lubricant, coolant, hydraulic fluid or any other hazardous material shall immediately be repaired by the Contractor to stop the leak. The Contractor shall clean up and dispose of any leaked fluids according to all applicable laws, ordinances, rules and regulations within 24-hoursof occurrence. All repairs, removal, clean-up and/or disposal shall be at no cost to the Town.
- 2. **PERMITS:** The Contractor is responsible for obtaining all permits and licenses. The costs for any permits or licenses shall be the responsibility of the Contractor.
- 3. **SITE:** Each offeror is required to make their own individual site inspection and become familiar with the locations, conditions and requirements prior to making a bid submittal.
  - a) The bidder is expected to have become familiar with and take into consideration, site conditions which may affect the work and to check all dimensions at the site.
  - b) The Contractor is responsible for providing a waste dumpster, temporary restroom facilities.
  - c) Each bidder shall acquaint themselves thoroughly as to the character and nature of the work to be done. Each bidder furthermore shall make a careful examination of the site of the work and inform themselves fully as to the difficulties to be encountered in performance of the work, the facilities for delivering, storing and placing materials and equipment and other conditions relating to construction and labor.
  - d) The bidder shall examine the premises and the site and compare them with any applicable drawings and specifications. He/she shall familiarize themselves with the existing conditions such as obstructive area levels and any problems related to erecting the required systems.
  - e) Contractor shall note the following special conditions:
    - i. Tides may affect work hours; and
    - ii. The South End beach access parking lot, Hazard Street beach access parking lot and the vacant lot at 388 Myrtle Avenue may be utilized for staging.
  - f) No plea of ignorance of conditions that exist or may hereafter exist on the site of the work, or difficulties that may be encountered in the execution of the work, as a result of failure to make necessary investigations and examinations, will be accepted as an excuse for any failure or omission on the part of the Contractor to fulfill in every detail all the requirements of the contract documents and to complete the work for the consideration set forth therein, or as a basis for any claim whatsoever.

- 4. INSURANCE: The Contractor is responsible for procuring and maintaining for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors. A Certificate of Insurance evidencing referenced coverages is to be submitted to the Town of Pawleys Island prior to being awarded any business. See attached Certificate of Insurance request for minimum insurance requirements
- 5. **SAFETY:** The Contractor is responsible for providing for the safety of all Contractor's or subcontractors personnel working in the Project Area.

#### 6. WORK AREA CLEAN-UP REQUIREMENTS

- a. During the progress of the Work, the Contractor shall keep the premises and maintained travel lanes free from accumulations of waste, discarded or surplus material, rubbish and other debris or contaminates resulting from the Work.
- b. Following completion of the Work, Contractor shall remove all waste material, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment, machinery and surplus material. The Contractor shall leave the site clean and ready for occupancy by the Town at substantial completion of the Work.
- 7. **WARRANTY:** The vendor shall warrant against all defects in material and workmanship for a period of one year after acceptance.
- 8. **INVOICE PAYMENTS**: By signing and submitting an invoice the Contractor certifies that all work and/or materials have been completed in accordance with the Bid Documents.
- 9. **FINAL INVOICE:** Payment of final invoice will be issued only upon final completion of the work as signed off by the Town Administrator and upon submission of any applicable releases of liens, material documentation, warranties, etc.
- 10. **HISTORICAL AND ARCHAEOLOGICAL:** If historical or archaeological artifacts are discovered at any time on the project site, the Contractor must notify the Town. The Contractor shall follow any rules or requests from agencies with jurisdiction. If required to stop work, delay work or perform extra work in the affected area, delays and additional costs will be considered an unforeseen difficulty.

Time Line: Request for Bids #2018-03

Item	Date	Time	Location
Advertised Date of Issue:	Monday, October 11, 2018	n/a	323 Myrtle Ave.
MANDATORY Pre-Bid Site Inspection:	INDEPENDENT: On Own	n/a	n/a
Deadline for Questions:	Friday, October 26, 2018	5:00PM ET	323 Myrtle Ave.
Bids Must be Received on/or Before:	Tuesday, November 6, 2018	3:00PM ET	323 Myrtle Ave.
Public Bid Opening & Tabulation:	Tuesday, November 6, 2018	3:00PM ET	323 Myrtle Ave.
Consideration by Town Council:	Monday, November 12, 2018	5:30PM ET	323 Myrtle Ave.
Earliest Possible Contract Award:	Tuesday, November 13, 2018	n/a	n/a
Earliest Possible Notice to Proceed:	Thursday, November 15, 2018	n/a	n/a
Substantial Completion Date:	Monday, April 1, 2019	n/a	n/a

#### **SCOPE OF WORK**

Repair to 22 of the 23 groins, the cumulative repair scope includes:

- Reinforcement of ~1450 linear feet of sheet piles
- o Replacement of ~620 ft of timber walers
- Replacement/reinforcement of 32 piles
- Repair of ~50 ft of damaged sheet

Table 1 provides a summary table of recommended repairs for each groin.

#### **Sheet Pile Reinforcement**

The majority of the sheet repair can be accomplished by installing 2x8 "sloppy-V" tongue and groove sister sheets on either side of the existing sheets and thru bolting. Sister sheeting will be supported by vertical 4x6 posts spaced 48" on center, staggered on either side of the groin. CSE recommends that at least 5 vertical feet of sheets be installed in a horizontal direction spanning the length needing repair. 5/8" galvanized thru bolts with oversized washers (minimum 2.5") shall be used to connect the posts and sheets. A bolt shall be installed at the ends of every board, and thru every other board thru the field. The bolt pattern should be staggered on either side of the groin so that there is no more than 4 horizontal ft of board without a bolt.

#### **Waler Repair**

Damaged waler sections shall be removed and replaced with 8x10 treated timbers, thru-bolted with 5/8" galvanized bolts with minimum  $2 \frac{1}{2}$ " washers.

#### **Sheet Pile Repair**

Groins 16 and 22 require more significant repairs to the sheets, as portions of the old sheeting are completely missing. In these areas, the remaining old sheets shall be cut to leave a level surface to butt-joint new sheets in place. New sheeting shall be installed using treated timber approximately with thickness of 2.5-3.0 inches and minimum width of 8 inches. Any gaps between the existing waler and new sheeting shall be shimmed. 2x12 boards with 5/8" thru bolts shall be used to join the old and new sections. A 2x6 board shall be thru-bolted under the waler.

#### Pile Repair/Replacement

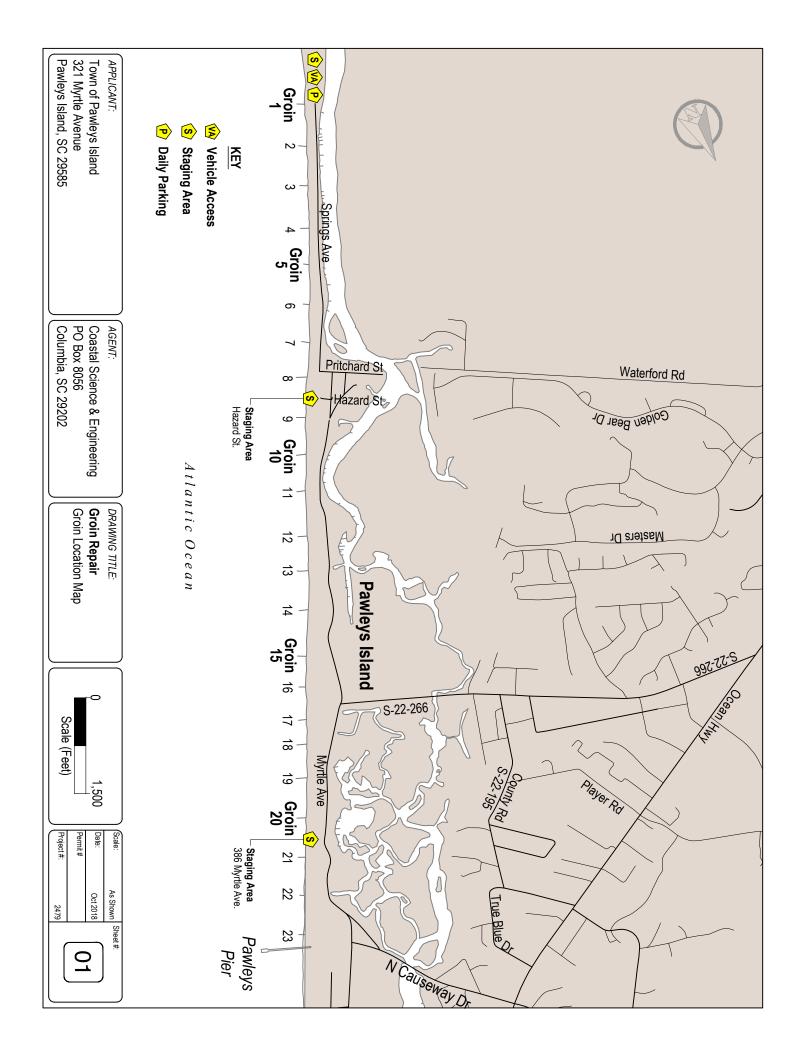
A total of 32 piles shall be reinforced or replaced using 8x10 treated lumber or 10-12" timber piling. Piles should be thru-bolted using  $\frac{3}{4}$ " galvanized timber bolts with washers.

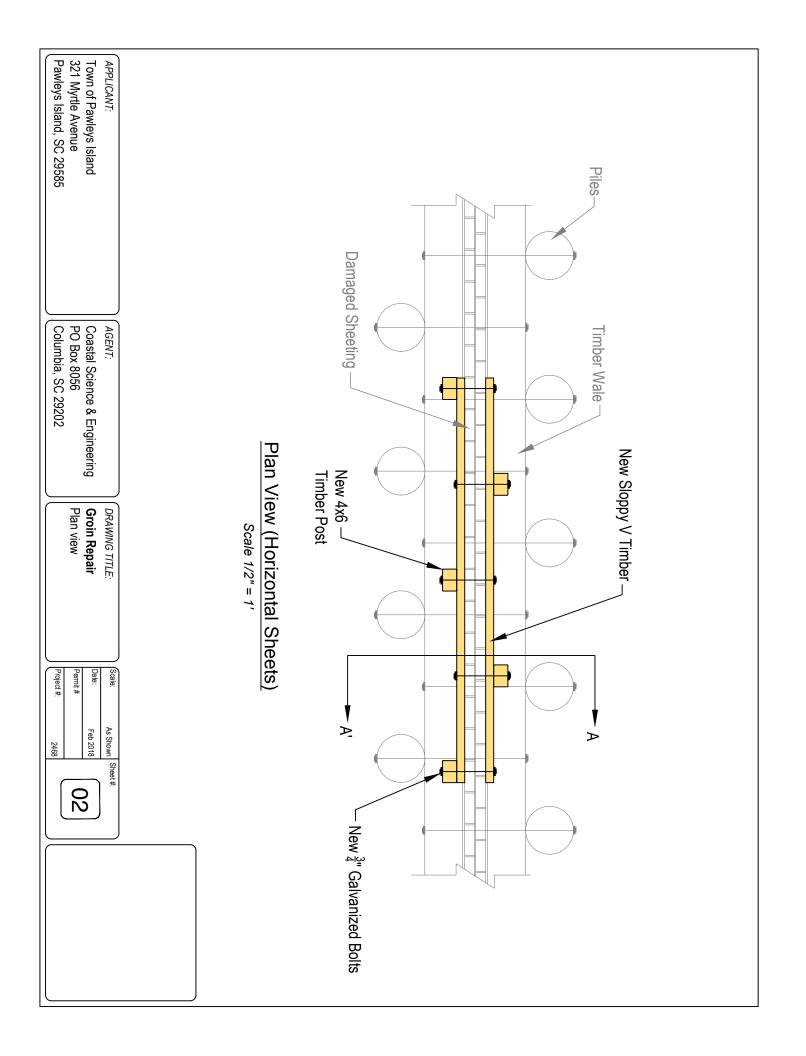
#### **Materials**

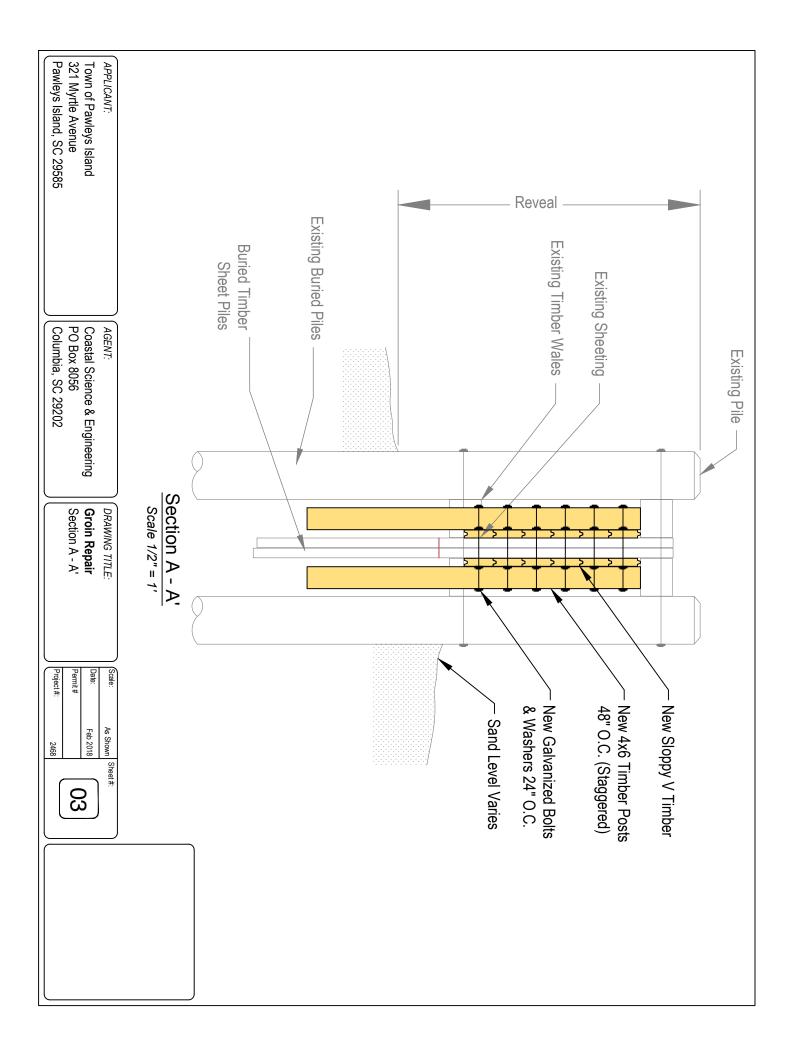
All timber shall be No.2 Marine Grade lumber treated at 2.5 pcf CCA. Any cuts to installed lumber must be treated with copper naphthenate prior to installation, in accordance with AWPA Standard M4. All hardware shall be hot-dipped galvanized meeting ASTM A153, ASTM A653, Class G185.

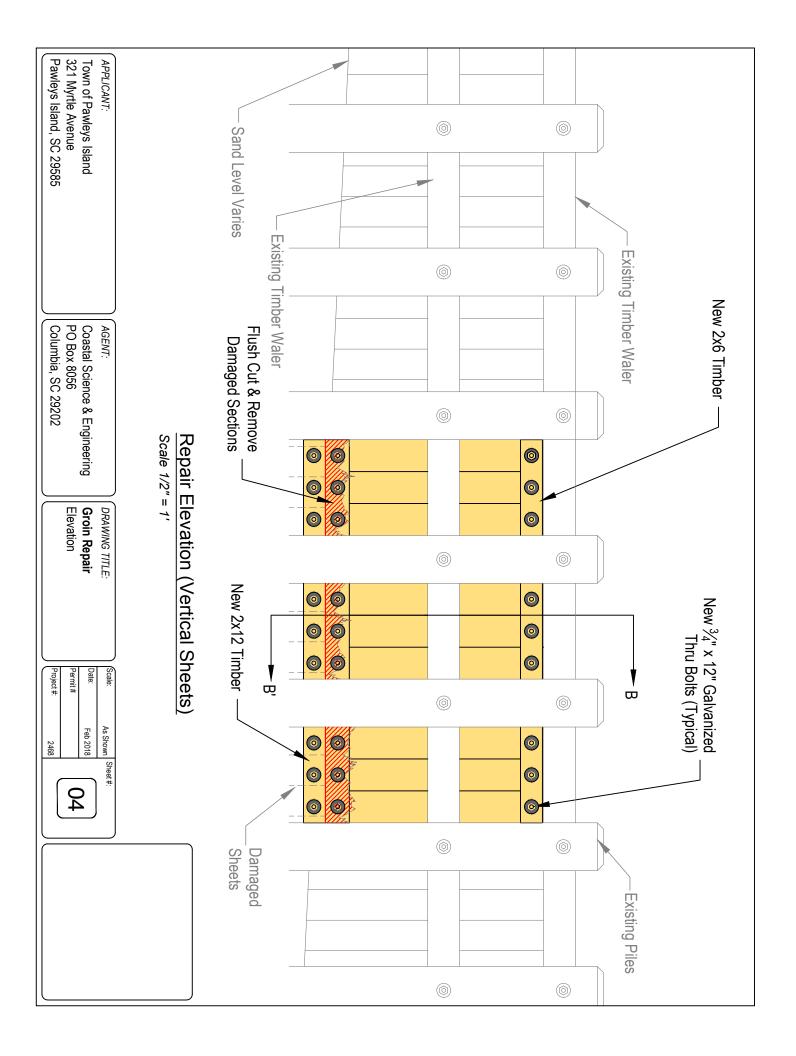
Groin	Piles Needing Repair (#)	Waler Repair South Side (ft)	Waler Repair North Side (ft)	Sheet Repair South Side (ft)	Sheet Repair North Side (ft)
#1 (766 Springs Ave)	0	0	0	0	0
#2 (740 Springs Ave)	0	40	40	0	20
#3 (720 Springs Ave)	5	20	20	30	30
#4 (698 Springs Ave)	1	10	15	15	15
#5 (678 Springs Ave)	1	0	0	0	0
#6 (658 Springs Ave)	0	0	18	12	12
#7 (638 Springs Ave)	4	20	20	50	50
#8 (618 Springs Ave)	3	10	20	45	45
#9 (501 Hazard St)	5	30	30	50	50
#10 (570 Myrtle Ave)	1	30	30	30	30
#11 (556 Myrtle Ave)	1	25	30	60	60
#12 (534 Myrtle Ave)	0	25	40	60	60
#13 (518 Myrtle Ave)	1	15	10	30	30
#14 (498 Myrtle Ave)	2	10	35	60	60
#15 (474 Myrtle Ave)	2	0	0	35	35
#16 (458 Myrtle Ave)	2	0	0	25	25
#17 (436 Myrtle Ave)	0	0	12	20	20
#18 (428 Myrtle Ave)	0	0	0	45	15
#19 (410 Myrtle Ave)	0	0	0	50	50
#20 (388 Myrtle Ave)	4	0	0	0	55
#21 (370 Myrtle Ave)	0	15	50	40	40
#22 (346 Myrtle Ave)	0	0	0	20	20
#23 (320 Myrtle Ave)	0	0	0	20	20

Total piles needed: 32
Total feet of waler timber needed: 620
Total feet of sheet timber needed: 1439









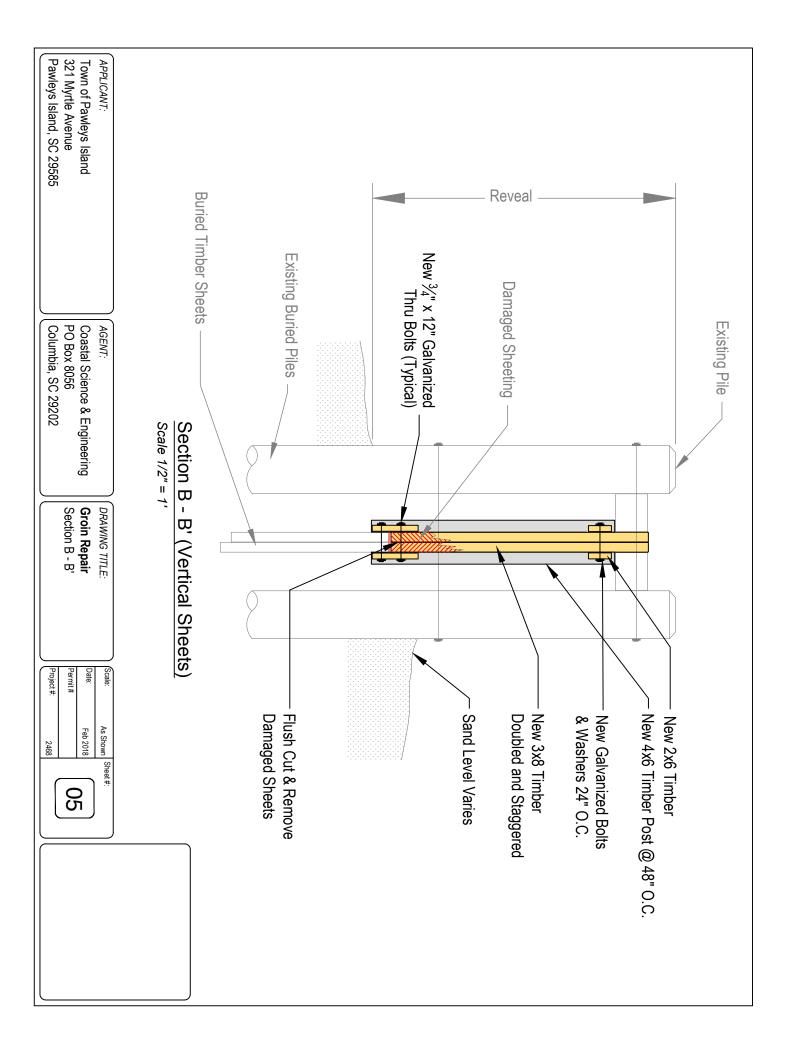




Figure 1. Damaged Waler at Groin 2



Figure 2. Damaged Waler at Groin 2



Figure 3. Missing Waler at Groin 3

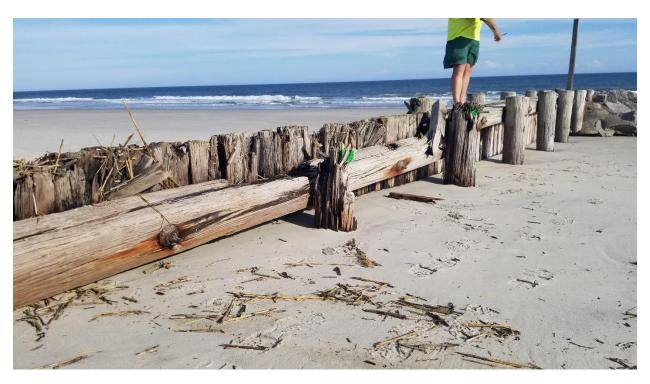


Figure 4. Damaged Waler and Sheeting at Groin 7



Figure 5. Damaged Sheeting at Groin 15. Previously Repaired Section to Right.

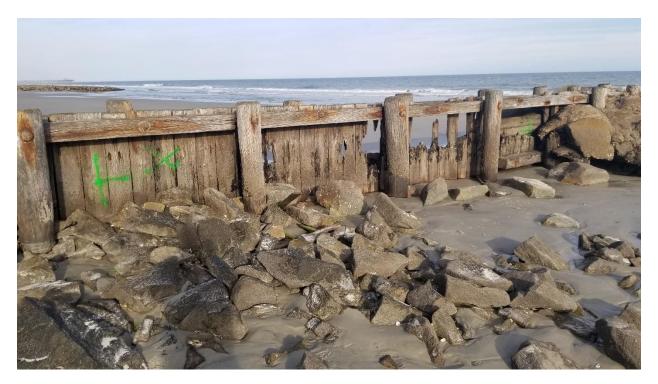


Figure 6. Scattered stone and missing sheeting at Groin 16.



Figure 7. Deteriorated sheets landward of a previously repaired section on Groin 19.



Figure 8. Severe damage at Groin 22.

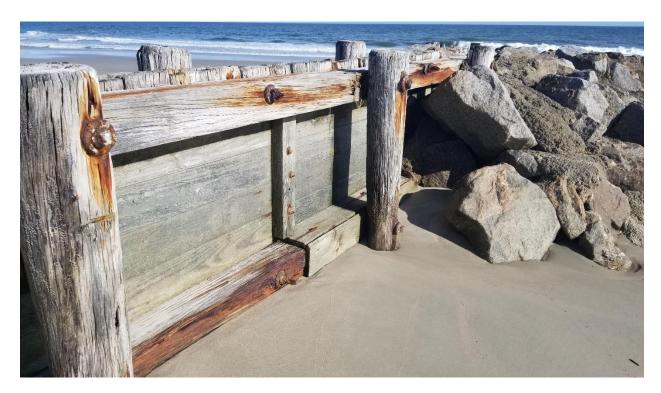


Figure 9. Example of previous repairs at Groin 3. New repairs will be similar in nature to the previous effort.

Vendor Name:				
Non-Collusion Oath				
Before me, the Undersigned, a Notary Public, for and in the County and State aforesaid, personally appeared and made oath that the				
Bidder herein, his agents, servants, and/or employees, to be best of his/her knowledge and belief, have not in any way colluded with anyone for and on behalf of the Bidder, or themselves, to obtain information that would give the Bidder an unfair advantage over others, nor have they colluded with anyone for and on behalf of the Bidder, or themselves, to gain any favoritism in the award of the Contract herein.				
Authorized Signature for Vendor				
Sworn to and Subscribed before me				
thisday of, 2018				

Notary Public in and for South Carolina

My Commission Expires:

#### **Bid Item 1 – Mobilization and Demobilization:**

1. Mobilization and Demobilization Lump Sum Price:		
(use words)	(\$(\$	)
Bid Item 2 – Reinforcement/Repair of 1,450 linear feet of timber sl sheetpile reinforcement along twenty-two existing groins as illustrated vertical feet of 2"x8" "sloppy-V" tongue and groove boards (horizontally long, and bolted with 5/8" galvanized thru bolts with oversized washers.	heeting: Installation of 1,450 lf of ma in the FRP. The reinforcement shall v oriented), 4"x6" vertical posts a minin	consist of five (5)
2. Lump Sum Bid Price to Complete the Work:		
	(\$	)
(use words)	(figures)	
Equivalent Unit Price (Item 2 divided by 1,450lf) (\$/lf)		
	(figures)	
(use words)	(\$(figures)	)
Equivalent Unit Price (Item 3 divided by 620lf) (\$/lf)		
	(figures)	
Bid Item 4 – Installation of 32 new treated timber piles: Removal of minimum of 4 ft below grade) and installation of new piles consisting of grade timber piles. New piles shall be a minimum of 25 ft long and drigroin.  4. Lump Sum Bid Price to Complete the Work:	of 8"x10" marine grade timber or 10"-	12" round marine
(use words)	(\$	)
Equivalent Unit Price (Item 4 divided by 32) (\$/pile)		
	(figures)	

Bid Item 5 – Major Repair of a total of 50 lf of timber groins at groins 16 and 22: Removal of damaged sheets and installation of new 3"x8" marine grade timber sheeting with 2"x12" boards bolted through the new and existing sheeting. A 2"x6" board shall be bolted to both sides of the new sheets under the existing waler. Work may require excavation and restacking of loose stone at

**Apparent Low Bidder:** The Apparent Low Bidder will be the lowest bidder under the combination of Bid Items 1 to 5 according to the Owner's available funds. Owner reserves the right to modify the project scope within 15 percent after bidding. Bidder shall provide the unit prices below for purposes of additions and/or deletions to the total price. The unit prices, if accepted in the award of this contract, shall be used in establishing adjustment of Contract Price by additions to or deductions from work depicted on the Drawings of the size and dimensions indicated.