Mason Inlet
Maintenance Project 2019/2020

Contract Documents and Specifications

FOR BIDDING
September 23, 2019

PREPARED FOR:

PREPARED BY:

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APPENDICES

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INVITATION TO BID

NEW HANOVER COUNTY, NC

MASON INLET MAINTENANCE PROJECT 2019/2020

New Hanover County is accepting sealed bids for the following project: Mason Inlet Maintenance Project 2019/2020. The base bid work includes hydraulic dredging of approximately 375,000 cubic yards of shoaled material from Mason Inlet, Mason Creek, and the AIWW, with subsequent placement on the southern beachfront of Figure “8” Island. An additional 75,000 cubic yards of dredging seaward of the Colregs line is also included as an optional bid item, should the Contractor have equipment capable of performing this work. Bidding on the optional work is not required. The work also consists of grading the beach and monitoring environmental concerns.

Bid documents on compact disk in Portable Document Format (.pdf) may be acquired from Gahagan & Bryant Associates of NC, PLLC, Chris Marello, (910) 313-3338, cmarello@gba-inc.com. Complete sets of Bid Documents must be used in preparing Bids. New Hanover County assumes no responsibility for errors or misrepresentations resulting from the use of incomplete sets of Bid Documents. A pre-bid conference is scheduled for Thursday October 3, 2019 at 1:00 p.m. at the offices of Gahagan & Bryant Associates of NC, PLLC located at 295-A North Green Meadows Drive, Wilmington, NC, 28405. Attendance is recommended but not mandatory.

All sealed Bids must be delivered or mailed to:

   New Hanover County
   Attn: Layton Bedsole, Shore Protection Coordinator
   230 Government Center Drive, Suite 160, Wilmington, NC 28403

Time is of the essence and any bid received after Friday October 18, 2019 at 3:00 PM (local time), whether by mail or otherwise, will be returned unopened. Bids shall be placed in a sealed envelope, marked in the lower left-hand corner with the project title, date, and hour bids are schedule to be received. Bidders are responsible for ensuring that their Bid is stamped by County personnel by the deadline indicated. Furthermore, the County reserves the right to reject any and all bids or to waive any and all technicalities or informalities. Bids shall be publicly opened and read on October 18, 2019 at 3:00pm in the New Hanover County Government Complex, Suite 601-Lucy Harrell Conference Room, 230 Government Center Drive, Wilmington, NC 28403.

ENVELOPES CONTAINING BIDS MUST BE IDENTIFIED AS “Bid for Mason Inlet Maintenance Project 2019/2020”. Bids shall be accompanied by a certified check, cashier’s check, U.S. Postal Money Order, or Bid Bond in an amount not less than 5% of Bid. All bidders must be pre-qualified for bidding on New Hanover County capital improvement projects. Pre-bid Qualification and Reference forms can be found on the the County’s website: http://legalinsurance.nhcgov.com/contractors-approved-for-bidding/.

PUBLISHED: September 23, 2019
A. CONTRACT PROVISIONS

SECTION I
INSTRUCTIONS TO BIDDERS / EVALUATION FACTORS FOR AWARD

SECTION II
CONTRACT CLAUSES

SECTION III
GEOTECHNICAL DATA

SECTION IV
WEATHER, WATER STAGES AND TIDE DATA
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SECTION I
INSTRUCTIONS TO BIDDERS / EVALUATION FACTORS FOR AWARD

1. AMENDMENTS TO INVITATIONS FOR BIDS
2. SUBMISSION OF BIDS
3. EXPLANATION TO PROSPECTIVE BIDDERS
4. LATE SUBMISSIONS, MODIFICATIONS, AND WITHDRAWALS OF BIDS
5. PREPARATION OF BIDS
6. BID GUARANTEE
7. SUBCONTRACTORS
8. CONTRACT AWARD
9. PROTEST PROCEDURES
10. TYPE OF CONTRACT
11. SITE VISIT
12. ARITHMETIC DISCREPANCIES
13. DISTRIBUTING SOLICITATION AMENDMENTS
14. OBTAINING INFORMATION REGARDING THIS SOLICITATION
15. LEGAL REQUIREMENTS
GENERAL STATEMENTS

The Contractor shall furnish all labor, equipment, materials, and services to schedule, coordinate, supervise, perform, and provide quality control for the removal of shoaled material within Mason Inlet, Mason Creek, and the adjacent AIWW as defined by these specifications, associated plans, and permit conditions specified within North Carolina Division of Coastal Management (NCDCM) and USACE Permits.

NOTE: For the purposes of the Contract Documents the following representations shall apply:
County – New Hanover County
Engineer – Gahagan & Bryant Associates of NC, PLLC
Contractor/Subcontractor – provider of construction services

1. AMENDMENTS TO INVITATIONS FOR BIDS

(a) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.
(b) Bidders shall acknowledge receipt of any amendment to this solicitation by identifying the amendment number and date in the space provided for this purpose on the form for submitting a bid.

2. SUBMISSION OF BIDS

(a) Bids and bid modifications shall be submitted in sealed envelopes or packages (1) addressed to the office specified in the solicitation, and (2) showing the time and date specified for receipt, the title “Bid for Mason Inlet Maintenance Project 2019/2020”, and the name and address of the Bidder.
(b) Bidders using commercial carrier services shall ensure that the bid is addressed and marked on the outermost envelope or wrapper as prescribed in subparagraphs (a)(1) and (2) of this provision when delivered to the office specified in the solicitation.

3. EXPLANATION TO PROSPECTIVE BIDDERS

Any prospective bidder desiring an explanation or interpretation of the solicitation, drawings, specifications, etc., must request it in writing soon enough to allow a reply to reach all prospective bidders before the submission of their bids. Questions received less than five days prior to the date for opening of bids will not be answered. Only questions answered by formal written Addenda will be binding. Oral explanations or instructions given before the award of a contract will not be binding. Any information given a prospective bidder concerning a solicitation will be furnished promptly to all other prospective bidders as an amendment to the solicitation, if that information is necessary in submitting bids or if the lack of it would be prejudicial to other prospective bidders.

4. LATE SUBMISSIONS, MODIFICATIONS, AND WITHDRAWALS OF BIDS

(a) Bidders are responsible for submitting bids, and any modifications or withdrawals, so as to reach the County office designated in the Invitation To Bid (ITB) by the time specified in the ITB.
(b) Any bid, modification, or withdrawal received at the County office designated in the ITB after the exact time specified for receipt of bids is “late” and will not be considered by the County and will remain unopened.
(c) Acceptable evidence to establish the time of receipt at the County installation includes the time/date stamp of that installation on the bid wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of County personnel.
(d) If an emergency or unanticipated event interrupts normal County processes so that bids cannot be received at the County office designated for receipt of bids by the exact time specified in the ITB and urgent County requirements preclude amendment of the ITB, the time specified for receipt of bids will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal County processes resume.
(e) Bids may be withdrawn by written notice received at any time before the exact time set for receipt of bids. A bid may be withdrawn in person by a bidder or its authorized representative if, before the
exact time set for receipt of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

5. **PREPARATION OF BIDS**

(a) Bids must be (1) submitted on the forms furnished by the County or on copies of those forms, and (2) manually signed. The person signing a bid must initial each erasure or change appearing on any bid form. The forms must be completed in ink. All names must be typed or printed below the signature.

(b) The bid form may require bidders to submit bid prices for one or more items on various bases, including:
- (1) Lump sum bid; or
- (2) Units of construction;
- (3) Each bidder shall indicate by attachment to his Bid the plant available to him which he proposes to utilize for the work.
- (4) A statement will be required of bidders setting forth work to be subcontracted along with the names and addresses of subcontractors and will include such information as necessary to establish their technical and financial capability.
- (5) The Contractor will insert his anticipated production rate on the bid forms. This rate will be a factor in the evaluation of the bid submittals.
- (6) The Contractor shall be properly certified or licensed with the State of North Carolina and shall be qualified both technically and financially to perform the Work. Certifications and/or licenses numbers shall be indicated on the bid forms.

(c) All costs associated with the preparation and delivery of bids shall be borne solely by the Bidder.

6. **BID GUARANTEE**

(a) Each bid must be accompanied by a Bid Bond or Deposit in a sum of not less than five percent (5%) of the total Bid ("Bid Guarantee"). All checks should be made payable to New Hanover County. If the successful Bidder fails to deliver as indicated in the Invitation to Bid, does not conform to specifications, or fails to perform as agreed upon, the County shall be entitled to retain the deposit to rectify the Bidder’s unacceptable performance. The only types of acceptable surety will be:
- 1. Bid Bond signed by a surety company authorized to do business in the State of North Carolina.
- 2. Cashier check.
- 3. Certified check drawn on a responsible financial institution.

(b) The County will return bid guarantees, other than bid bonds, (1) to unsuccessful bidders as soon as practicable after the opening of bids, and (2) to the successful bidder upon execution of contractual documents and bonds (including any necessary coinsurance or reinsurance agreements), as required by the bid as accepted. If the successful bidder, upon acceptance of its bid by the County within the period specified for acceptance, fails to execute all contractual documents or furnish executed bond(s) within 10 days after receipt of the forms by the bidder, the County may terminate the contract for default. In the event the contract is terminated for default, the bidder is liable for any cost of acquiring the work that exceeds the amount of its bid, and the bid guarantee is available to offset the difference.

7. **SUBCONTRACTORS**

(a) If the Bidder subcontracts any portion of the Project for any reason, then the Bidder must submit the list of Subcontractors, which will become a part of the Contract Documents. Subcontractors listed shall be properly certified or licensed with the State of North Carolina and shall be qualified both technically and financially to perform the Work. The County reserves the right to reject at any time any subcontractor which is deemed unacceptable technically or financially, or which has previously performed unsatisfactory work for the County.
(a) The Bidder shall not replace or substitute any of the listed subcontractors without written approval from the County. The Bidder must observe industry standards and ethics when proposing individuals currently utilized on other projects. The County's acceptance of any substituted subcontractor may be revoked on the basis of reasonable objection after due investigation, in which case the bidder shall submit an acceptable substitute. No acceptance by the County of any such subcontractor shall constitute a waiver of any right of the County to reject defective work.

8. **CONTRACT AWARD**

(a) The County will evaluate bids in response to this solicitation without discussions and will award a contract to the responsible bidder whose base bid, conforming to the solicitation, will be most advantageous to the County, considering the base bid price, schedule and other factors specified elsewhere in the solicitation. In evaluating the Bids, the County shall consider the qualifications of the bidders, whether or not the Bids comply with the prescribed requirements. The County may conduct such investigations as deemed necessary to establish the responsibility, qualifications and financial ability of the Bidders, proposed Subcontractors and other persons and organizations to do the work in accordance with the Contract Documents to the County's satisfaction within the prescribed time. Before a Bid is considered for award the Bidder may be requested to submit a statement regarding his previous experience in performing comparable work, his business and technical organization, financial resources and physical plant availability. The Bidder shall be required to show evidence of capability to complete all work prior to March 31, 2020. The County reserves the right to reject the Bid of any Bidder who does not pass such evaluation to the County's satisfaction.

(b) The County may reject any or all bids, and waive informalities or minor irregularities in bids received.

(c) The County may reject a bid as nonresponsive if the prices bid are materially unbalanced between line items or subline items. A bid is materially unbalanced when it is based on significantly less than cost for some work and prices which are significantly overstated in relation to cost for other work, and if there is a reasonable doubt that the bid will result in the lowest overall cost to the County even though it may be the low evaluated bid, or if it is so unbalanced as to be tantamount to allowing an advance payment.

(d) All Bids shall remain open for forty-five (45) days after the day of the Bid opening, but the County may, in its sole discretion, release any Bid and return the Bid Security prior to that date. The County intends to award the contract by November 15, 2019, following receipt of permits.

(e) Simultaneously with delivery of the executed counterparts of the Agreement to the County, Contractor shall deliver the required Performance and Payment Bonds.

9. **PROTEST PROCEDURES**

Any qualified Bidder may file a written protest with the County following current County protest policy procedures.

10. **TYPE OF CONTRACT**

The County contemplates award of a firm fixed-price contract resulting from this solicitation.

11. **CONTRACT DOCUMENTS**

It is the intent of the Specifications and Drawings to describe a complete Project to be constructed in accordance with the Contract Documents. The Contract Documents comprise the entire Agreement between the County and Contractor. They may be altered only by a Modification.

The Contract Documents are complementary; what is called for by one is as binding as if called for by all. If Contractor finds a conflict, error or discrepancy in the Contract Documents, he shall call it to Engineer's attention in writing at once and before proceeding with the Work affected thereby; however, he shall not be liable to the County or Engineer for his failure to discover any conflict, error or discrepancy in the Contract Clauses, Technical Specifications and Drawings. In resolving such conflicts, errors and discrepancies, the documents shall be given precedent in the following order:
Figure dimensions on drawings shall govern over scale dimensions, and detailed Drawings shall
govern over general Drawings. Any work that may reasonably be inferred from the Contract Clauses,
Technical Specifications or Drawings as being required to produce the intended result shall be supplied
whether or not it is specifically called for. Work, materials or equipment described in words which so
applied have a well-known technical or trade meaning shall be deemed to refer to such recognized
standards.

12. SITE VISIT

(a) Refer to clauses Differing Site Conditions and Site Investigations and Conditions Affecting the
Work. Bidders are urged and expected to inspect the site where the work will be performed. No
presence on private property is allowed without specific prior permission from the County.
(b) Site visits may be arranged during normal working hours by contacting:

Name: Chris Marello
Address: Gahagan & Bryant Associates of NC, PLLC
         295-A North Green Meadows Drive,
         Wilmington, NC, 28405.
         Telephone: (910) 313-3338
         E-mail: ctmarello@gab-inc.com

13. ARITHMETIC DISCREPANCIES

(a) For the purpose of initial evaluations of bids, the following will be utilized in the resolving of
arithmetic discrepancies found on the face of bid schedule as submitted by the bidder:
   (1) Obviously misplaced decimal points will be corrected;
   (2) Discrepancy between unit price and extended price, the unit price will govern;
   (3) Apparent errors in extension of unit prices will be corrected; and
   (4) Apparent errors in addition of lump sum and extended prices will be corrected.
(b) For the purpose of bid evaluation, the County will proceed on the assumption that the bidder
intends the bid to be evaluated on the basis of the unit prices, the totals arrived at by resolution of
arithmetic discrepancies as provided above and the bid will be so reflected on the abstract of bids.
(c) These correction procedures shall not be used to resolve any ambiguity concerning which bid is
low.

14. DISTRIBUTING SOLICITATION AMENDMENTS

Any amendments issued against the solicitation will be distributed to all plan holders by one of the
following methods:
(i) If the amendment is substantial enough to require re-issuance of the entire solicitation, a new CD-
ROM, with the amendment incorporated, will be sent to all plan holders.
(ii) If the amendment does not require re-issuance of the CD-ROM, the amendment will be sent via e-
mail in PDF format to all plan holders. Copies will not be sent by mail, fax, or delivery service.

15. OBTAINING INFORMATION REGARDING THIS SOLICITATION

Verbal requests for information will not be accepted. Written requests for explanations must be sent to
the person below and may be sent via fax or e-mail. Inquiries and requests that are directed to any
other person may not be relayed to the proper person and, therefore, may not be answered. All
inquiries must be received by October 7, 2019. Responses to inquiries will be at the discretion of the
County and will be provided to all potential bidders as a bid addendum on or before October 11, 2019.
16. **LEGAL REQUIREMENTS**

Federal, State, County and local laws, ordinances, rules and regulations that in any manner affect the items covered herein apply. Lack of knowledge by the bidder will in no way be a cause for relief from responsibility.

1) The Contractor shall be in compliance with the federal Drug-Free Workplace Act of 1988 requirements.

2) The Uniform Commercial Code (North Carolina General Statutes, Chapter 25) shall prevail as the basis for contractual obligations between the awarded bidder/contractor and the County for any terms and conditions not specifically stated in the Invitation for Bid.

3) The obligations of the County under this award are subject to the availability of funds lawfully appropriated for its purpose.

4) The Invitation for Bid shall be included and incorporated in the final award. The order of contractual precedence will be the agreement between the Successful Bidder and the County, bid document (original Terms and Conditions), and Successful Bidder's response. Any and all legal action necessary to enforce the award will be held in the District Court located in New Hanover County (District 5), North Carolina, and the contractual obligations will be interpreted according to the laws of North Carolina.
SECTION II
CONTRACT CLAUSES

1. CLAUSES INCORPORATED BY REFERENCE
2. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK
3. CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS
4. SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION
5. POSTAWARD CONFERENCE
6. PRECONSTRUCTION CONFERENCE
7. PERFORMANCE AND PAYMENT BONDS
8. PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS
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16. SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK
17. PHYSICAL DATA
18. DIFFERING SITE CONDITIONS
19. CHANGES
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21. REQUESTS FOR EQUITABLE ADJUSTMENT
22. DISPUTES
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24. SUSPENSION OF WORK
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28. LAYOUT OF WORK
29. QUANTITY SURVEYS
30. INSPECTION OF CONSTRUCTION
31. USE AND POSSESSION PRIOR TO COMPLETION
32. CLEANING UP
33. ACCIDENT PREVENTION
34. HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA
35. HAZARD WARNING LABELS
36. DRUG FREE WORK FORCE
37. UNAUTHORIZED INSTRUCTIONS FROM COUNTY OR OTHER PERSONNEL
38. OTHER CONTRACTS
1. **CLAUSES INCORPORATED BY REFERENCE**

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Engineer will make their full text available.

2. **COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK**

The Contractor shall be required to (a) commence work under this contract within 30 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete all work prior to March 31, 2020. Prior to the award of the contract, the Contractor and Engineer will agree upon the commencement, prosecution and completion of the work. The Contractor will be required to meet the agreed upon schedule. The Contractor’s dredge plant shall not demobilize to prosecute work on another project without the consent and approval of the Engineer, and the submission of a revised and agreed upon schedule. The time stated for completion shall include final cleanup of the premises. No construction activities shall occur between the dates of April 1st to November 15th; except as authorized by Federal and State permits, as amended. Should the Contractor not complete the required work prior to April 1st, the contractor shall demobilize his equipment, and remobilize after the subsequent November 15th to complete the work, at no additional cost to the County.

3. **CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS**

(a) The County will provide to the Contractor, without charge, four (4) sets of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Engineer.

(b) The Contractor shall--
   1. Check all drawings furnished immediately upon receipt;
   2. Compare all drawings and verify the figures before laying out the work;
   3. Promptly notify the Engineer of any discrepancies;
   4. Be responsible for any errors that might have been avoided by complying with this paragraph (b); and
   5. Reproduce and print contract drawings and specifications as needed.

(c) In general--
   1. Large-scale drawings shall govern small-scale drawings; and
   2. The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to these specifications and the contract drawings identified as follows:
   MASON INLET MAINTENANCE PROJECT 2019/2020
   NEW HANOVER COUNTY, NC, dated September 23, 2019, 20 sheets.

4. **SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION**

(a) The Contractor shall keep on the work site a copy of the drawings and specifications and shall at all times give the Engineer access thereto. Anything mentioned in the specifications and not shown on the drawings, or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Engineer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Engineer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided.

5. **POSTAWARD CONFERENCE**

The Contractor agrees to attend any post-award conference convened by the Engineer.
6. **PRECONSTRUCTION CONFERENCE**

The successful Bidder will be notified of the preconstruction conference and will be required to attend. The Engineer’s notification will include specific details regarding the date, time, and location of the conference, any need for attendance by subcontractors, and information regarding the items to be discussed.

7. **PERFORMANCE AND PAYMENT BONDS**

(a) **Definitions.** As used in this clause--
Original contract price means the award price of the contract; or, for requirements contracts, the price payable for the estimated total quantity; or, for indefinite-quantity contracts, the price payable for the specified minimum quantity. Original contract price does not include the price of any options, except those options exercised at the time of contract award.

(b) **Amount of required bonds.** The successful Bidder shall furnish performance and payment bonds to the County as follows:

1. **Performance bonds.** The penal amount of performance bonds at the time of contract award shall be 100 percent of the original contract price.

2. **Payment Bonds.** The penal amount of payment bonds at the time of contract award shall be 50 percent of the original contract price.

(c) **Furnishing executed bonds.** The Contractor shall furnish all executed bonds, including any necessary reinsurance agreements, to the County, within the time period specified in the Bid Guarantee provision of the solicitation, or otherwise specified by the Engineer, but in any event, before starting work.

(d) **Surety or other security for bonds.** The bonds shall be in the form of firm commitment, supported by corporate sureties whose names appear on the list contained in Treasury Department Circular 570, individual sureties, or by other acceptable security such as postal money order, certified check, or cashier’s check.

(e) **Notice of subcontractor waiver of protection (40 U.S.C. 270b).** Any waiver of the right to sue on the payment bond is void unless it is in writing, signed by the person whose right is waived, and executed after such person has first furnished labor or material for use in the performance of the contract.

8. **PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS**

(a) **Payment of price.** The County shall pay the Contractor the contract price as provided in this contract.

(b) **Progress payments.** The County shall make progress payments monthly as the work proceeds, based on estimates of work accomplished which meets the standards of quality established under the contract, as approved by the Engineer.

(c) **Contractor certification.** Along with each request for progress payments, the Contractor shall furnish the following certification, or payment shall not be made:

I hereby certify, to the best of my knowledge and belief, that--

1. The amounts requested are only for performance in accordance with the specifications, terms, and conditions of the contract;

2. All payments due to subcontractors and suppliers from previous payments received under the contract have been made, and timely payments will be made from the proceeds of the payment covered by this certification;

3. This request for progress payments does not include any amounts which the prime contractor intends to withhold or retain from a subcontractor or supplier in accordance with the terms and conditions of the subcontract.

______________________
(Name)

______________________
(Title)

______________________
(Date)
(d) Retainage. The County shall retain five percent (5%) of the amount of the payment until final completion and acceptance of the contract work.

(e) Title, liability, and reservation of rights. All material and work covered by progress payments made shall, at the time of payment, become the sole property of the County, but this shall not be construed as:

(1) Relieving the Contractor from the sole responsibility for all material and work upon which payments have been made or the restoration of any damaged work; or

(2) Waiving the right of the County to require the fulfillment of all of the terms of the contract.

(f) Final payment. The County shall pay the amount due the Contractor under this contract after:

(1) Completion and acceptance of all work;

(2) Presentation of a properly executed voucher; and

(3) Presentation of release of all claims against the County arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically excepted from the operation of the release.

(g) Preservation of prime-subcontractor rights. This clause shall not limit or impair any contractual, administrative, or judicial remedies otherwise available to the Contractor or a subcontractor in the event of a dispute involving late payment or nonpayment by the Contractor or deficient subcontract performance or nonperformance by a subcontractor.

9. CONTRACT PRICES - BID SCHEDULE

(a) The County's payment for the items listed in the Bid Schedule shall constitute full compensation to the Contractor for:

(1) Furnishing all plant, labor, equipment, appliances, and materials; and

(2) Performing all operations required to complete the work in conformity with the drawings and specifications.

(b) The Contractor shall include in the prices for the items listed in the Bid Schedule all costs for work in the specifications, whether or not specifically listed in the Bid Schedule.

10. PAYMENT FOR MOBILIZATION AND DEMOBILIZATION

(a) The County will pay all costs for the mobilization and demobilization of all of the Contractor's plant and equipment at the contract lump sum price for this item.

(1) Sixty percent (60%) of the lump sum price upon completion of the contractor's mobilization at the work site and successful placement of at least 5,000 cubic yards of beach fill in a 24-hour period.

(2) The remaining forty percent (40%) upon completion of demobilization.

(b) The Engineer may require the Contractor to furnish cost data to justify this portion of the bid if the Engineer believes that the percentages in paragraphs (a) (1) and (2) of this clause do not bear a reasonable relation to the cost of the work in this contract.

(1) Failure to justify such price to the satisfaction of the Engineer will result in payment, as determined by the Engineer, of:

   (i) Actual mobilization costs at completion of mobilization;

   (ii) Actual demobilization costs at completion of demobilization; and

   (iii) The remainder of this item in the final payment under this contract.

(2) The Engineer's determination of the actual costs in paragraph (b)(1) of this clause is not subject to appeal.

11. VARIATION IN ESTIMATED QUANTITY

If the quantity of a unit-priced item in this contract is an estimated quantity and the actual quantity of the unit-priced item varies more than 15 percent above or below the estimated quantity, an equitable adjustment in the contract price shall be made upon demand of either party. The equitable adjustment shall be based upon any increase or decrease in costs due solely to the variation above 115 percent or below 85 percent of the estimated quantity. If the quantity variation is such as to cause an increase in the time necessary for completion, the Contractor may request, in writing, an extension of time, to be received by the Engineer within 10 days from the beginning of the delay, or within such further period as may be granted by the Engineer before the date of final settlement of the contract. Upon the receipt
of a written request for an extension, the Engineer shall ascertain the facts and make an adjustment for extending the completion date as, in the judgment of the Engineer, is justified.

12. **PERMITS AND RESPONSIBILITIES**

The Contractor shall comply with all requirements under the terms and conditions set out in the following permit(s) and authorization(s) listed below. These permit(s) and authorization(s) are included in Appendix A.

a) North Carolina Department of Environment & Natural resources Permit 151-01 and associated modifications.
b) US Army Corps of Engineers Action ID #SAW-199901052.
c) North Carolina Division of Water Quality 401 Certification #3274.

The Contractor shall, without additional expense to the County, be responsible for obtaining any necessary licenses and permits in addition to those obtained and provided by the County, and for complying with any Federal, State, and municipal laws, codes, and regulations applicable to the performance of the work. The Contractor shall also be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence. The Contractor shall also be responsible for all materials delivered and work performed until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract. All work is to be completed in accordance with these permits and subject to the restrictions thereby.

13. **EQUIPMENT AND WORKMANSHIP**

(a) The Contractor shall obtain the Engineer's approval of the machinery and mechanical and other equipment to be incorporated into the work. When requesting approval, the Contractor shall furnish to the Engineer the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the machinery and other equipment. When required by this contract or by the Engineer, the Contractor shall also obtain the Engineer's approval of the material or articles which the Contractor contemplates incorporating into the work. Machinery, equipment, material, and articles that do not have the required approval shall be installed or used at the risk of subsequent rejection.

(b) All work under this contract shall be performed in a skillful and workmanlike manner. The Engineer may require, in writing, that the Contractor remove from the work any employee the Engineer deems incompetent, careless, or otherwise objectionable.

14. **SUPERINTENDENCE BY THE CONTRACTOR**

At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the worksite a competent superintendent who is satisfactory to the Engineer and has authority to act for the Contractor.

The Contractor shall provide Field Management Personnel to perform the functions of Supervisor, Quality Engineer/Inspector, and Safety/Environmental Engineer/Inspector. The Field Management Personnel are required on-site, working on this Contract, every hour/day on which this Contract has active on-going work, unless specifically notified by the Engineer that an individual's attendance would not be required for a specific activity. These personnel must be employees of the Contractor (not its Subcontractor) and shall be dedicated to this Contract during all on-site work activities. Field Management Personnel must be available by VHF marine band radio and a cellular phone during all work periods.

15. **SCHEDULES FOR CONSTRUCTION CONTRACTS**

(a) The Contractor shall, within five days after the work commences on the contract or another period of time determined by the Engineer, prepare and submit to the Engineer for approval three copies of a practicable schedule showing the order in which the Contractor proposes to perform the work, and the dates on which the Contractor contemplates starting and completing the several salient
features of the work (including acquiring materials, plant, and equipment). The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period.

(b) The Contractor shall enter the actual progress on the chart and deliver three copies of the annotated schedule to the Engineer on a monthly basis. If, in the opinion of the Engineer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Engineer, without additional cost to the County. In this circumstance, the Engineer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Engineer deems necessary to demonstrate how the approved rate of progress will be regained.

(c) Failure of the Contractor to comply with the requirements of the Engineer under this clause shall be grounds for a determination by the Engineer that the Contractor is not prosecuting the work with sufficient diligence. Upon making this determination, the Engineer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of this contract.

16. SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK

(a) The Contractor acknowledges that it has taken steps reasonably necessary to ascertain the nature and location of the work, and that it has investigated and satisfied itself as to the general and local conditions which can affect the work or its cost, including but not limited to
   (1) conditions bearing upon transportation, disposal, site access, handling, and storage of materials;
   (2) the availability of labor, water, sanitation, electric power, and roads;
   (3) uncertainties of weather, river stages, tides, or similar physical conditions at the site;
   (4) the conformation and conditions of the ground; and
   (5) the character of equipment and facilities needed preliminary to and during work performance. The Contractor also acknowledges that it has satisfied itself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered insofar as this information is reasonably ascertainable from an inspection of the site, including all exploratory work done by the County, as well as from the drawings and specifications made a part of this contract. Any failure of the Contractor to take the actions described and acknowledged in this paragraph will not relieve the Contractor from responsibility for estimating properly the difficulty and cost of successfully performing the work, or for proceeding to successfully perform the work without additional expense to the County.

(b) The County assumes no responsibility for any conclusions or interpretations made by the Contractor based on the information made available by the County. Nor does the County assume responsibility for any understanding reached or representation made concerning conditions which can affect the work by any of its officers or agents before the execution of this contract, unless that understanding or representation is expressly stated in this contract.

17. PHYSICAL DATA

Data and information furnished or referred to below are for the Contractor's information. The County shall not be responsible for any interpretation of or conclusion drawn from the data or information by the Contractor.

(a) The indications of physical conditions on the drawings and in the specifications are the result of site investigations and surveys (See SECTIONS III and V).

(b) Weather conditions (See SECTION IV).

(c) Transportation facilities (See SECTION V and IX).

18. DIFFERING SITE CONDITIONS

(a) The Contractor shall promptly, and before the conditions are disturbed, give a written notice to the Engineer of
   (1) subsurface or latent physical conditions at the site which differ materially from those indicated in this contract, or
unknown physical conditions at the site, of an unusual nature, which differ materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the contract.

(b) The Engineer shall investigate the site conditions promptly after receiving the notice. If the conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performing any part of the work under this contract, whether or not changed as a result of the conditions, an equitable adjustment shall be made under this clause and the contract modified in writing accordingly.

(c) No request by the Contractor for an equitable adjustment to the contract under this clause shall be allowed, unless the Contractor has given the written notice required; provided, that the time prescribed in (a) above for giving written notice may be extended by the Engineer.

(d) No request by the Contractor for an equitable adjustment to the contract for differing site conditions shall be allowed if made after final payment under this contract.

19. CHANGES

(a) The Engineer may, at any time, without notice to the sureties, if any, by written order designated or indicated to be a change order, make changes in the work within the general scope of the contract, including changes--

1. In the specifications (including drawings and designs);
2. In the method or manner of performance of the work;
3. In the County-furnished facilities, equipment, materials, services, or site; or
4. Directing acceleration in the performance of the work.

(b) Any other written or oral order (which, as used in this paragraph (b), includes direction, instruction, interpretation, or determination) from the Engineer that causes a change shall be treated as a change order under this clause; provided, that the Contractor gives the Engineer written notice stating

1. the date, circumstances, and source of the order and
2. that the Contractor regards the order as a change order.

(c) Except as provided in this clause, no order, statement, or conduct of the Engineer shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment.

(d) If any change under this clause causes an increase or decrease in the Contractor's cost of, or the time required for, the performance of any part of the work under this contract, whether or not changed by any such order, the Engineer shall make an equitable adjustment and modify the contract in writing. However, except for an adjustment based on defective specifications, no adjustment for any change under paragraph (b) of this clause shall be made for any costs incurred more than 20 days before the Contractor gives written notice as required. In the case of defective specifications for which the County is responsible, the equitable adjustment shall include any increased cost reasonably incurred by the Contractor in attempting to comply with the defective specifications.

(e) The Contractor must assert its right to an adjustment under this clause within 30 days after (1) receipt of a written change order under paragraph (a) of this clause or (2) the furnishing of a written notice under paragraph (b) of this clause, by submitting to the Engineer a written statement describing the general nature and amount of the proposal, unless this period is extended by the County. The statement of proposal for adjustment may be included in the notice under paragraph (b) above.

(f) No proposal by the Contractor for an equitable adjustment shall be allowed if asserted after final payment under this contract.

20. MODIFICATION PROPOSALS - PRICE BREAKDOWN

(a) The Contractor shall furnish a price breakdown, itemized as required and within the time specified by the Engineer, with any proposal for a contract modification.

(b) The price breakdown --

1. Must include sufficient detail to permit an analysis of profit, and of all costs for --
   i. Material;
   ii. Labor;
   iii. Equipment;
   iv. Subcontracts; and
21. REQUESTS FOR EQUITABLE ADJUSTMENT

The amount of any request for equitable adjustment to contract terms shall accurately reflect the contract adjustment for which the Contractor believes the County is liable. The request shall include only costs for performing the change and shall not include any costs that already have been reimbursed or that have been separately claimed. All indirect costs included in the request shall be properly allocable to the change.

22. DISPUTES

a. General: Any disputes relating to interpretation of the terms of this Contract or a question of fact or arising under this Contract shall be resolved through good faith efforts upon the part of the Contractor and the County. At all times, the Contractor shall carry on the work and maintain its progress schedule in accordance with the requirements of the Contract and the determination of the County or its representatives, pending a final resolution of the dispute, including, if necessary, and determination by a Court of competent jurisdiction. Any dispute, which is not resolved by mutual agreement, shall be decided by the County who shall reduce the decision to writing. The decision of the County shall be final and conclusive unless determined by a court of competent jurisdiction to be fraudulent, capricious, arbitrary, so grossly erroneous as to necessarily imply bad faith, or not be supported by substantial evidence.

b. Mediation: Prior to initiating any litigation concerning this Contract, the parties agree to submit the disputed issue or issues to a mediator for non-binding mediation. The parties shall agree on a mediator chosen from a list of certified for New Hanover County. The fee of the mediator shall be shared equally by the parties. To the extent allowed by law, the mediation process shall be confidential and the results of the mediation or any testimony or argument introduced at the mediation shall not be admissible as evidence in any subsequent proceeding concerning the disputed issue.

c. Interpretation Venue: This Contract constitutes the entire agreement between the parties with respect to the subject matter hereof and supersedes all prior verbal or written agreements between the parties with respect thereto. This Contract may only be amended by written documents, properly authorized, executed and delivered by both parties hereto. This Contract shall be interpreted as a whole unit and section headings are for convenience only. All interpretations shall be governed by the laws of the State of North Carolina. In the event it is necessary for either party to initiate legal action regarding this Contract, venue shall be exclusively in the District Court located in New Hanover County (District 5), North Carolina, for claims under state law and for any claims which are justifiable in Federal court.

23. DEFAULT

(a) If the Contractor refuses or fails to prosecute the work or any separable part, with diligence, the County may, by written notice to the Contractor, terminate the right to proceed with the work (or the separable part of the work) that has been delayed. In this event, the County may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for completing the work. The Contractor and its sureties shall be liable for any damage to the County resulting from the Contractor's refusal or failure to complete the work diligently, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the County in completing the work.

(b) The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause, if--
(1) The delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include
(i) acts of God or of the public enemy,
(ii) acts of the County in either its sovereign or contractual capacity,
(iii) acts of another Contractor in the performance of a contract with the County,
(iv) fires,
(v) floods,
(vi) epidemics,
(vii) quarantine restrictions,
(viii) strikes,
(ix) freight embargoes,
(x) unusually severe weather, or delays of subcontractors or suppliers at any tier arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and the subcontractors or suppliers; and

(2) The Contractor, within 10 days from the beginning of any delay (unless extended by the Engineer), notifies the Engineer in writing of the causes of delay. The Engineer shall ascertain the facts and the extent of delay. If, in the judgment of the Engineer, the findings of fact warrant such action, the time for completing the work shall be extended. The findings of the Engineer shall be final and conclusive on the parties, but subject to appeal under the Disputes clause.

(c) If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the County.

The rights and remedies of the County in this clause are in addition to any other rights and remedies provided by law or under this contract.

24. **SUSPENSION OF WORK**

(a) The Engineer may order the Contractor, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Engineer determines appropriate for the convenience of the County.

(1) If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted (1) by an act of the Engineer in the administration of this contract, or (2) by the Engineer's failure to act within the time specified in this contract (or within a reasonable time if not specified), an adjustment shall be made for any increase in the cost of performance of this contract (excluding profit) necessarily caused by the unreasonable suspension, delay, or interruption, and the contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor, or for which an equitable adjustment is provided for or excluded under any other term or condition of this contract.

(2) A claim under this clause shall not be allowed (1) for any costs incurred more than 20 days before the Contractor shall have notified the Engineer in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order), and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable after the termination of the suspension, delay, or interruption, but not later than the date of final payment under the contract.

25. **OPERATIONS AND STORAGE AREAS**

(a) The Contractor shall confine all operations (including storage of materials) on County premises to areas authorized or approved by the Engineer. The Contractor shall hold and save the County, its officers and agents, and the Engineer, free and harmless from liability of any nature occasioned by the Contractor's performance.

(b) Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be erected by the Contractor only with the approval of the Engineer and shall be built with labor and materials furnished by the Contractor without expense to the County. The temporary buildings and utilities shall remain the property of the Contractor and shall be removed by the Contractor at its expense upon completion of the work.
The Contractor shall, under regulations prescribed by the Engineer, use only established roadways, or use temporary roadways constructed by the Contractor when and as authorized by the Engineer. When materials are transported in prosecuting the work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by any Federal, State, or local law or regulation. When it is necessary to cross curbs or sidewalks, the Contractor shall protect them from damage. The Contractor shall repair or pay for the repair of any damaged curbs, sidewalks, or roads.

26. OBSTRUCTION OF NAVIGABLE WATERWAYS

(a) The Contractor shall --
(1) Promptly recover and remove any material, plant, machinery, or appliance which the contractor loses, dumps, throws overboard, sinks, or misplaces, and which, in the opinion of the Engineer, may be dangerous to or obstruct navigation;
(2) Give immediate notice, with description and locations of any such obstructions, to the Engineer; and
(3) When required by the Engineer, mark or buoy such obstructions until the same are removed.
(b) The Engineer may --
(1) Remove the obstructions by contract or otherwise should the Contractor refuse, neglect, or delay compliance with paragraph (a) of this clause; and
(2) Deduct the cost of removal from any monies due or to become due to the Contractor; or
(3) Recover the cost of removal under the Contractor's bond.
(c) The Contractor's liability for the removal of a vessel wrecked or sunk without fault or negligence is limited to that provided in sections 414, 415, and 419 of the Rivers and Harbors Act of 1899 (33 USC Ch. 9).

27. PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS

(a) The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site, which are not to be removed and which do not unreasonably interfere with the work required under this contract.
(b) The Contractor shall protect from damage all existing improvements and utilities
(1) of or near the work site, and
(2) on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Engineer may have the necessary work performed and charge the cost to the Contractor.

28. LAYOUT OF WORK

The Engineer has established monuments, control data and elevations for the work site(s) as indicated on the contract plans. From the monuments, control data and elevations established by the Engineer, the Contractor shall complete the layout of the work and shall be responsible for all measurements that may be required for the execution of the work to the location and limit marks prescribed in the specifications or on the contract plans, subject to such modifications as the Engineer or County may require to meet changed conditions or as a result of necessary modifications to the contract work.

The Contractor shall lay out its work from Engineer established baselines and benchmarks that shall be provided to the Contractor, and shall be responsible for all measurements in connection with the layout. The Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the work. The Contractor shall be responsible for executing the work to the lines and grades that may be established or indicated by the Engineer. The Contractor shall also be responsible for maintaining and preserving all stakes and other marks established by the Engineer until authorized to remove them. If such marks are destroyed by the Contractor or through its negligence before their removal is authorized, the Engineer may replace them and deduct the expense of the replacement from any amounts due or to become due to the Contractor.
29. QUANTITY SURVEYS

(a) Quantity surveys shall be conducted by the Engineer, and the data derived from these surveys shall be used in computing the quantities of work performed and the actual construction completed and in place.

(b) The Engineer shall conduct the original and final surveys and make the computations based on them. The Engineer will provide survey data and computations to the Contractor for any periods for which progress payments are requested.

30. INSPECTION OF CONSTRUCTION

(a) Definition. "Work" includes, but is not limited to, materials, and workmanship.

(b) The Contractor shall maintain an adequate inspection system and perform such inspections as will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Engineer. All work shall be conducted under the general direction of the Engineer and is subject to inspection and test at all places and at all reasonable times before acceptance to ensure strict compliance with the terms of the contract.

(c) Engineer inspections and tests are for the sole benefit of the County and do not--

(1) Relieve the Contractor of responsibility for providing adequate quality control measures;

(2) Relieve the Contractor of responsibility for damage to or loss of the material before acceptance;

(3) Constitute or imply acceptance; or

(4) Affect the continuing rights of the County after acceptance of the completed work under paragraph (i) of this section.

(d) The Engineer shall provide onsite inspection services on a daily basis as part of the construction management for the County. Channel and beach surveys will be conducted periodically by the Engineer and the data will be provided to the Contractor for their quality control use. The presence or absence of a County inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the Engineer's written authorization.

(e) The Contractor shall promptly furnish, at no increase in contract price, all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the Engineer. The County may charge to the Contractor any additional cost of inspection or test when work is not ready at the time specified by the Contractor for inspection or test, or when prior rejection makes reinspection or retest necessary. The County shall perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.

(f) The Contractor shall, without charge, replace or correct work found by the County not to conform to contract requirements, unless in the public interest the County consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

(g) If the Contractor does not promptly replace or correct rejected work, the County may (1) by contract or otherwise, replace or correct the work and charge the cost to the Contractor or (2) terminate for default the Contractor's right to proceed.

(h) If, before acceptance of the entire work, the County decides to examine already completed work by removing it or tearing it out, the Contractor, on request, shall promptly furnish all necessary facilities, labor, and material. If the work is found to be defective or nonconforming in any material respect due to the fault of the Contractor or its subcontractors, the Contractor shall defray the expenses of the examination and of satisfactory reconstruction. However, if the work is found to meet contract requirements, the Engineer shall make an equitable adjustment for the additional services involved in the examination and reconstruction, including, if completion of the work was thereby delayed, an extension of time.

(i) Unless otherwise specified in the contract, the County shall accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the Engineer determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the County's rights under any warranty or guarantee.
31. USE AND POSSESSION PRIOR TO COMPLETION

(a) The County shall have the right to take possession of or use any completed or partially completed part of the work. Before taking possession of or using any work, the Engineer shall furnish the Contractor a list of items of work remaining to be performed or corrected on those portions of the work that the County intends to take possession of or use. However, failure of the Engineer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The County's possession or use shall not be deemed an acceptance of any work under the contract.

(b) While the County has such possession or use, the Contractor shall be relieved of the responsibility for the loss of or damage to the work resulting from the County's possession or use, notwithstanding the terms of the clause in this contract entitled “Permits and Responsibilities.” If prior possession or use by the County delays the progress of the work or causes additional expense to the Contractor, an equitable adjustment shall be made in the contract price or the time of completion, and the contract shall be modified in writing accordingly.

32. CLEANING UP

The Contractor shall at all times keep the work area, including storage areas, free from accumulations of waste materials. Before completing the work, the Contractor shall remove from the work and premises any rubbish, tools, equipment, and materials that are not the property of the County. Upon completing the work, the Contractor shall leave the work area in a clean, neat, and orderly condition satisfactory to the Engineer.

33. ACCIDENT PREVENTION

(a) The Contractor shall provide and maintain work environments and procedures which will
(1) safeguard the public and County personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities;
(2) avoid interruptions of County operations and delays in project completion dates; and
(3) control costs in the performance of this contract.

(b) For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall-
(1) Provide appropriate safety barricades, signs, and signal lights;
(2) Comply with the Occupational Safety and Health Administration (OSHA) standards 29 CFR Part 1910 and 29 CFR Part 1926; and
(3) Ensure that any additional measures the Engineer determines to be reasonably necessary for the purposes are taken.

(4) The Contractor shall comply with all pertinent provisions of the latest version of U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, in effect on the date of the solicitation.

(c) Whenever the Engineer becomes aware of any noncompliance with these requirements or any condition which poses a serious or imminent danger to the health or safety of the public or County personnel, the Engineer shall notify the Contractor orally, with written confirmation, and request immediate initiation of corrective action. This notice, when delivered to the Contractor or the Contractor’s representative at the work site, shall be deemed sufficient notice of the noncompliance and that corrective action is required. After receiving the notice, the Contractor shall immediately take corrective action. If the Contractor fails or refuses to promptly take corrective action, the Engineer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. The Contractor shall not be entitled to any equitable adjustment of the contract price or extension of the performance schedule on any stop work order issued under this clause.

(d) The Contractor shall insert this clause, including this paragraph (d), with appropriate changes in the designation of the parties, in subcontracts.
34. **HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA**

(a) "Hazardous material", as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).

(b) The Bidder must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract (see Note 1 below). The hazardous material shall be properly identified and include any applicable identification number, such as National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract. Material Identification No. (If none, insert "None") (See Note 2 below)

(c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.

(d) The apparently successful Bidder agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful Bidder is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful Bidder being considered nonresponsible and ineligible for award.

(e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Engineer and resubmit the data.

(f) Neither the requirements of this clause nor any act or failure to act by the County shall relieve the Contractor of any responsibility or liability for the safety of County, Contractor, or subcontractor personnel or property.

(g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.

(h) The County's rights in data furnished under this contract with respect to hazardous material are as follows:

   (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to--

      (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

      (ii) Obtain medical treatment for those affected by the material; and

      (iii) Have others use, duplicate, and disclose the data for the County for these purposes.

   (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.

   (3) The County is not precluded from using similar or identical data acquired from other sources.

Notes:
The phrase "to be delivered under this contract" shall be interpreted to include hazardous materials to be consumed in the performance of the work even though such materials may not be delivered to the County as end items.

The use (or consumption) of some kind of hazardous material is required for the performance of almost every construction (including dredging) contract and in many service contracts. Therefore, the Bidder should not enter "none" without first evaluating the work and making a positive determination that no such materials will be introduced to the job site. If the Bidder is not sure of the identity of hazardous materials that may be used during the performance of the work, the Bidder should enter "unknown at this time." Regardless of the Bidder's entry, the successful Bidder (the Contractor) will be required to submit material safety data sheets prior to introducing any hazardous materials to the job site.

35. **HAZARD WARNING LABELS**

(a) "Hazardous material," as used in this clause, is defined in the Hazardous Material Identification and Material Safety Data clause of this contract.
The Contractor shall label the item package (unit container) of any hazardous material to be delivered under this contract in accordance with the Hazard Communication Standard (29 CFR 1910.1200 et. seq.). The Standard requires that the hazard warning label conform to the requirements of the standard unless the material is otherwise subject to the labeling requirements of one of the following statutes:

1. Federal Insecticide, Fungicide and Rodenticide Act;
2. Federal Food, Drug and Cosmetics Act;
3. Consumer Product Safety Act;
4. Federal Hazardous Substances Act; or
5. Federal Alcohol Administration Act.

The Bidder shall list which hazardous material listed in the Hazardous Material Identification and Material Safety Data clause of this contract will be labeled in accordance with one of the Acts in paragraphs (b)(1) through (5) of this clause instead of the Hazard Communication Standard. Any hazardous material not listed will be interpreted to mean that a label is required in accordance with the Hazard Communication Standard.

\[
\text{MATERIAL (If None, Insert "None.") ACT} \\
\]  

The apparently successful Bidder agrees to submit, before award, a copy of the hazard warning label for all hazardous materials not listed in paragraph (c) of this clause. The Bidder shall submit the label with the Material Safety Data Sheet being furnished under the Hazardous Material Identification and Material Safety Data clause of this contract.

The Contractor shall also comply with MIL-STD-129, Marking for Shipment and Storage (including revisions adopted during the term of this contract).

36. DRUG-FREE WORK FORCE

(a) Definitions.

1. "Employee in a sensitive position," as used in this clause, means an employee who has been granted access to classified information; or employees in other positions that the Contractor determines involve national security; health or safety, or functions other than the foregoing requiring a high degree of trust and confidence.
2. "Illegal drugs," as used in this clause, means controlled substances included in Schedules I and II, as defined by section 802(6) of title 21 of the United States Code, the possession of which is unlawful under Chapter 13 of that Title. The term "illegal drugs" does not mean the use of a controlled substance pursuant to a valid prescription or other uses authorized by law.

(b) The Contractor agrees to institute and maintain a program for achieving the objective of a drug-free work force. While this clause defines criteria for such a program, contractors are encouraged to implement alternative approaches comparable to the criteria in paragraph (c) that are designed to achieve the objectives of this clause.

(c) Contractors shall adopt appropriate personnel procedures to deal with employees who are found to be using drugs illegally. Contractors shall not allow any employee to remain on duty or perform in a sensitive position who is found to use illegal drugs until such times as the Contractor, in accordance with procedures established by the Contractor, determines that the employee may perform in such a position.

37. UNAUTHORIZED INSTRUCTIONS FROM COUNTY OR OTHER PERSONNEL

The Contractor shall not accept any instructions issued by any person, employed by the County or otherwise, other than the Engineer or an authorized representative of the Engineer.

38. OTHER CONTRACTS

The County may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with County employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Engineer.
Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by County employees.

- End of Section --
SECTION III
GEOTECHNICAL DATA

Surface grab samples were taken along the centerline of the dredging areas in August 2019. The sample locations and the results of geotechnical analyses are shown in Appendix B. Bidders are expected to examine the site and to make their own evaluation of the materials to be excavated.

-- End of Section ---
SECTION IV
WEATHER, WATER STAGES AND TIDE DATA

1. The following water stage, wave, wind, and weather data are provided for inclusion into the subject Plans and Specifications. The following water level datums are provided for information only and are not to be utilized in conjunction with any contract related hydrographic surveying.

   a) Water Stages. Water levels in the project area are mainly affected by diurnal tidal fluctuations in the Atlantic Ocean. The project area is also subject to storm surges from hurricanes and tropical storms from June through November. Surges from extratropical storms may affect the area during any time of the year. Normal tidal range is 3.8 feet. Tidal datum utilized for hydrographic surveys and construction is the North American Vertical Datum of 1988 (NAVD88). Local datum relationships are shown below:

   - 1.4 feet → Mean High Water (MHW)
   - 0.0 feet → NAVD 88
   - -2.5 feet → Mean Low Water (MLW) “USACE Beaufort Datum (BFT)"

   Daily tidal predictions at locations along the coastline of North and South America, including locations in the vicinity of the project area can be found in the publication East Coast of North and South America Tide Tables, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Ocean Service. In addition to daily tidal predictions, this publication provides mean and spring tide ranges and mean tide levels. Some astronomical data is also included, such as time of sunrise, sunset, moonrise, and moonset. This publication is available through NOAA. Tidal data provided in this publication can also be found at the following NOAA website: https://co-ops.nos.noaa.gov/tide_predictions.html?gid=1408#listing.

   b) Wind and Wave Data. The following publications include wind and wave information in the vicinity of the project area, and may be ordered directly from the agencies indicated.

   2. U.S. Coast Pilot Volume 4, Atlantic Coast: Cape Henry to Key West, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service. This publication supplements the navigational information shown on the NOAA/NOS nautical charts. It also provides miscellaneous meteorological data. This publication is available through NOAA: https://nauticalcharts.noaa.gov/publications/coast-pilot/file/cp4/CPB4_WEB.pdf.

   3. Hindcast Wave Information for the U.S. Atlantic Coast. Wave Information Studies of U.S. Coastlines. WIS Report 30, Waterways Experiment Station, March 1993. This report presents wave hindcast summaries at various stations located along the east coast of the United States, including several stations located offshore of the southeast North Carolina coastline. Available data includes wave height, period, and direction tables for the 20-year period extending from 1956-75. This report also includes summary wind speed and wind direction tables, summary tables of mean wave heights by month and year, largest wave heights by month and year, and a table of extreme wave events based on data from the 20-year hindcasts. The data contained in this report excludes the effects of tropical disturbances and hurricanes. This publication is available from National Technical Information Service, http://www.ntis.gov/. An updated hindcast has been completed for locations along the Atlantic coast of the U.S. for the period extending from 1980-2012. This updated data set includes the effects of tropical disturbances and hurricanes. Time series listings of wave data and some summary information are available at the Wave Information Study website: http://wis.usace.army.mil/.

   4. National Data Buoy Center (NDBC) Website. This Internet website provides a wide range of real-time and archived meteorological and oceanographic data collected at offshore and nearshore stations worldwide. Data provided on this website includes wind speed, wind gusts, atmospheric pressure, air temperature, sea temperature, wave height, and wave
period. Gage readings are updated hourly, and archived data is available for most stations. The website address for data relevant to this project site is:  

a) **Weather Conditions.** In common with most Atlantic coastal localities, the area is subject to the effects of northeaster’s and hurricanes which produce high winds, waves, above normal tides, and heavy rains. The project area is subject to tropical storms and hurricanes from June through November. The hurricane season historically peaks between August and October. The climate of the area is essentially subtropical, marine, and temperatures below freezing are infrequent. The wet season in the project area is from May through October. Rainfall during these months is closely associated with convective activity. These rainfall events are normally of short duration and amounts are spatially variable. In general, the winter months constitute the dry season. Rainfall during the winter months is usually associated with mid-latitude systems (fronts and low-pressure systems) and is distributed in a more spatially uniform pattern. Occasionally, daily rainfall in the dry season can be quite heavy as mid-latitude systems penetrate into North Carolina. Dangerous thunderstorms can occur in this area at any time of the year.

1. It shall be the contractor’s responsibility to obtain information concerning weather conditions in the project area. The Contractor shall maintain full-time monitoring of the NOAA marine weather broadcasts, and avail themselves of such other local commercial weather forecasting services as may be available. Weather conditions are reported by the NOAA, Environmental Data Service, Asheville, NC and information about weather conditions is available through the following internet site: http://www.nws.noaa.gov. The publication *Local Climatological Data - Monthly Summary* published by NOAA, Asheville, North Carolina contains climatological and meteorological observations and data relevant to this region. The *Annual Summary* gives a synopsis of these observations for the period of record. Subscription price and ordering information are available from the National Climatic Data Center, Federal Building, Asheville, North Carolina 28801, and at the following website: http://www.ncdc.noaa.gov/.

2. The average number of days in each calendar month with rain equal to, or greater than, 0.1 inches is provided for the project area in the following table. This information is based on data obtained from the NOAA National Weather Service, weather station at Wilmington International Airport. The data represents the period of record from 1981 through 2010.

<table>
<thead>
<tr>
<th>Average Number of Days Per Month</th>
<th>With Rainfall &gt; 0.1 Inches</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gauge Name</strong></td>
<td>Jan</td>
</tr>
<tr>
<td>ILM</td>
<td>4</td>
</tr>
</tbody>
</table>

--- End of Section ---
B.  TECHNICAL SPECIFICATIONS

SECTION V
SUMMARY OF WORK

SECTION VI
MEASUREMENT AND PAYMENT

SECTION VII
ADMINISTRATIVE PROCEDURES

SECTION VIII
PROJECT SCHEDULE

SECTION IX
TEMPORARY CONSTRUCTION FACILITIES

SECTION X
ENVIRONMENTAL PROTECTION

SECTION XI
DREDGING AND BEACH FILL
SECTION V
SUMMARY OF WORK

1. GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

1.1.1 Project Description

The base bid work includes hydraulic dredging of approximately 375,000 cubic yards of material from Mason Inlet, Mason Creek, and the adjacent AIWW with subsequent placement on the southern beachfront of Figure “8” Island. The work may also include an optional 75,000 cubic yards of material from an area seaward of the Colregs line in Mason Inlet, should an acceptable bid be received and awarded. The work also consists of grading the beach and monitoring environmental concerns.

1.1.2 Location

The project site is located in New Hanover County, on the east coast of North Carolina. The exact location is shown on the contract drawings. The Mason Creek portion of the project site starts at the confluence of the Atlantic Intracoastal Waterway Beaufort to Cape Fear, Section 3 Tangent 12 in New Hanover County, North Carolina. Mason Creek extends ESE from near Station 85+00 and Red Day Marker “110”, to the Colregs Demarcation Line in Mason Inlet.

1.2 COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK

a. Read this paragraph in conjunction with the Clause COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK.

b. In addition to the above, the following shall apply: The words “commence work” means “commence dredging.”

Prior to commencement of work, the Contractor will meet with the Engineer in order to establish a plan and operating procedures to minimize the impacts of the dredging and placement activities to the environment. All work shall be completed not later than March 31, 2020. No work shall take place during the period of April 1st through November 15th. No construction activity or equipment shall be allowed on the beach during this period.

1.3 PHYSICAL DATA

Read this paragraph in conjunction with the Clause PHYSICAL DATA.

1.3.1 Physical Conditions

The indications of physical conditions on the drawings and in the specifications are the result of site investigations by surveys and by sediment grab samples. The indicated physical conditions are the result of site investigations by grab samples, the logs and laboratory data are referenced in SECTION III GEOTECHNICAL DATA. While the samples are representative of surface conditions at their respective locations, local variations characteristic of the shoaled materials of this region are to be expected.

The materials to be excavated are predominantly shoaled deposits that have formed since the areas were last dredged during the winter 2015/2016 season. Historically the average grain size for maintenance material in Mason Inlet and Creek has been approximately 0.22-0.26 mm with a mix of clean sand and fine shell hash. In addition, debris commonly found abandoned or deposited by storms in a channel – i.e., tires, ropes, roots, pilings, etc. – are to be expected. Removal and disposal of common debris shall be at the contractor’s expense. In situ rock, if encountered, will not be dredged.

1.3.2 Weather, Water Stage and Tide Data
See SECTION IV WEATHER, WATER STAGES AND TIDE DATA.

1.3.3 Surveys

The hydrographic and beach survey data shown on the drawings are considered representative of the conditions at the time of the surveys. Variations since that time are to be expected.

1.3.4 Contractor Investigation

Refer to the Clause SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK.

1.3.5 Transportation Facilities and Staging Areas

The project area is served by US Highway 17, Porter’s Neck road and Bridge Road. Dredge and barge access is via the AIWW. Contractor shall identify marine access routes to the site and verify that his plant can navigate within the limited depths and strong currents. Contractor shall verify height & weight restrictions for the Figure “8” Island Bridge swing bridge. The weight limit is currently posted at 36 tons with a maximum height restriction of 13.8 feet. Historically bulldozers larger than a D4 series have been brought to the island by barge.

The Contractor shall make his own investigation of available roads for transportation, the location of off-island staging area for delivery and equipment trucks, load limits for bridges and roads, and other road conditions affecting the transportation of materials and equipment to the site. The only land-based beach access point for the ingress/egress of construction equipment is at the end of Surf Court Dr., approximately 1.8 miles north of the required fill area. An additional pedestrian walkover access is available in the vicinity of Sta. 10+00. Access to Figure “8” Island and the beach fill site shall be carefully coordinated with Mr. David Kellam of the Figure “8” Beach Homeowners Association (910) 686-0635.

1.3.6 Maritime Traffic and Obstruction of Navigable Waters

Marine traffic in the project area consists of commercial, pleasure, and small recreational vessels of all types and sizes which can be accommodated by existing depths. The County will not be held responsible for keeping channels free from vessels or other obstructions. Upon completion of the work the Contractor shall promptly remove its plant, including ranges, buoys, piles, and other marks placed by him under the contract in navigable waters or on shore.

1.4 LAYOUT OF WORK

Read this paragraph in conjunction with the Clause LAYOUT OF WORK.

1.4.1 Project Datum and Survey Control Monuments

All work shall be completed to the depths and grades shown on the plans referenced to the NAVD88 datum. The vertical control monument used to reference the hydrographic survey and project datum is SATELITE, located in the dune behind the washrooms at Wrightsville Beach Public Access #2. The monument is a brass disk referenced at EL. + 15.48 feet NAVD 88.

The Engineer will establish monuments, control data and elevations for the work as indicated on the contract drawings, which will be provided to the Contractor prior to NTP.

1.4.2 Layout

From the monuments, control data and elevations established by the Engineer, the Contractor shall complete the layout of the work and shall be responsible for all measurements that may be required for the execution of the work to the location and limit marks prescribed in the specifications or on the contract drawings, subject to such modifications as the Engineer may...
require to meet changed conditions or as a result of necessary modifications to the contract work.

1.4.3 Survey

The Contractor shall furnish, at his own expense, such gauges, stakes, templates, platforms, equipment, tools and material, and all labor as may be required in laying out any part of the work from the monuments, control data and elevations established by the Engineer. It shall be the responsibility of the Contractor to maintain and preserve all stakes and other marks established by the Engineer until authorized to remove them, and if such marks are destroyed by the Contractor or through his negligence, prior to their authorized removal, they may be replaced by the Engineer, at his discretion, and the expense of replacement will be deducted from any amounts due or to become due the Contractor. The Engineer may require that work be suspended at any time when location and limit marks established by the Contractor are not reasonably adequate to permit checking of the work.

1.5 DAMAGE TO WORK

The responsibility for damage to any part of the permanent work shall be as set forth in Clause PERMITS AND RESPONSIBILITIES. However, if, in the judgment of the Engineer, any part of the permanent work performed by the Contractor is damaged by flood, earthquake, hurricane, or tornado, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs as ordered by the Engineer and full compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If, in the opinion of the Engineer, there are no contract unit or lump sum prices applicable to any part of such work, an equitable adjustment pursuant to Clause CHANGES will be made as full compensation for the repairs of that part of the permanent work for which there are no applicable contract unit or lump sum prices. Except as herein provided, damage to all work (including temporary construction), utilities, materials, equipment and plant shall be repaired to the satisfaction of the Engineer at the Contractor’s expense, regardless of the cause of such damage.

1.6 EXISTING WORK

In addition to the Clause PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS:

a. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain.

b. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Engineer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

1.7 LOCATION OF UNDERGROUND UTILITIES

Notify the Engineer at least 7 days prior to any dredging or excavation work. Contact North Carolina 811, call 811, (www.nc811.org) at least 7 days prior to excavating for identification and locations of subaqueous and underground utilities in the work and staging areas. Contractor is responsible for marking all utilities not marked by the utility companies.

The excavation areas were last dredged during the 2015/2016 season and no utilities were encountered. However, the Contractor shall be responsible for verifying the locations and depths of any subaqueous utility crossings and take precautions against damages which might result from its operations, especially the sinking of dredge spuds and/or anchors into the channel bottom, in the vicinity of utility crossings. If any damage occurs as a result of its operations, the Contractor will be required to suspend dredging until the damage is repaired and approved by the County. Costs of such repairs and downtime of the dredge and attendant shall be at the Contractor’s expense.

-- End of Section --
SECTION VI
MEASUREMENT AND PAYMENT

1. GENERAL

1.1 SUMMARY

This section describes how Line Items will be measured and paid for when making progress payments. Work to be measured is described in specification sections listed for each Line Item. Measurement procedures for payment, required quantity survey or procurement documentation and payment restrictions are described in applicable specification sections. Allocate costs for work not specifically mentioned to the Line Item most closely associated with work involved. Unless there is a specific Line Item for administrative costs, allocate such costs proportionally across all Line Items.

1.2 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

Progress payments for lump sum line items will be made in accordance with the PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS Clause.

1.2.1 Mobilization and Demobilization (Line Item 1)

   a. Payment will be made for costs associated with or incidental to mobilization and demobilization and establishment of initial project management and coordination. See Clause PAYMENT FOR MOBILIZATION AND DEMOBILIZATION.

1.3 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items in accordance with the Contract Documents and all applicable Federal, State, and Local permits.

Each Unit Price Line Item may be a single pay activity item or may be broken down into pay activities with smaller quantities equal to the line item total. Contract unit price multiplied by agreed quantity is full compensation.

1.3.2 DREDGING AND BEACH FILL (Line Item 2)

   1.3.2.1 Payment

   a. Payment will be made for costs associated with or incidental to dredging, transportation and placement of beach fill, and final dressing. No separate payment will be made for incidental items including, but not limited to: all temporary construction facilities, barricades and signs, debris removal, rock removal/disposal, pipeline crossing, excavation and transportation of beach fill, constructing the beach profile,
escarpment removal, and final dressing, noise control, and environmental monitoring. See SECTION X ENVIRONMENTAL PROTECTION, and SECTION XI DREDGING AND BEACH FILL.

b. Payment will be made for all material dredged within the template limits shown on the drawings, down to 2.0 foot overdepth, on both the bottom and side slopes. Payment quantities will be determined by the Engineer using average end area method of calculation. Material removed below the 2.0 foot overdepth limit will not be paid for.

1.3.2.2 Measurement

a. The material satisfactorily dredged from within the required template plus overdepth will be measured for payment. The drawings are believed to represent accurately the existing conditions at the time the surveys were performed, but changes are expected to have occurred since. The Engineer will perform pre-dredge surveys of the areas to be dredged for the purpose of quantity calculations. Prior to the start of dredging operations, the Contractor shall propose Acceptance Sections of not less than 500 feet in length along the centerline, in accordance with his proposed dredge cut. Due to the dynamic nature of the spit near the throat of the inlet, the proposed acceptance sections between Sta. 5+00 and Sta. 20+00 may be reduced to not less than 300 feet in length. The width of the proposed Acceptance Sections shall not be less than 100 feet. The Acceptance Sections shall be subject to approval by the Engineer.

Measurement of the quantity dredged for pay purposes will be based on original and final cross sections at 100-foot stations made within the Acceptance Sections. Pre- and post-dredge cross-section surveys for payment will be conducted by the Engineer. Quality Control Surveys shall be the responsibility of the Contractor. Monthly partial payments will be based on approximate quantities determined by measurement of the material removed from within the required template plus allowable overdepth. Once quantities and acceptance within a specified Acceptance Section have been determined through the use of post-dredge surveys, they will not be reopened except on evidence of collusion, fraud, or obvious error.

b. The Engineer will perform pre- and post-fill topographic surveys at 100-foot stations with elevations taken at break points and range intervals not to exceed 20 feet, from the baseline to beyond the intersection of the fill with the pre-fill beach profile. Acceptance Sections for the beachfill shall be 300 feet along the construction baseline. Once post-construction survey is performed, no measurements will be revised except on evidence of collusion, fraud, or obvious error.

Beach fill satisfactorily placed will be surveyed for acceptance by the Engineer. Quantities in place will be computed by the Engineer by use of the average end area method by use of the average end area method in accordance with Clause QUANTITY SURVEYS.

c. The final pay quantity for DREDGING AND BEACH FILL shall be limited to no more than 130% of the quantity of fill placed and accepted within the beachfill template plus tolerances as shown on the plans, unless approved by the Engineer.

1.3.2.3 Unit of Measure

Cubic yard.

2. EXECUTION

2.1 PAYMENT PROCEDURES

Progress payment requests shall be submitted to the Engineer for approval and subsequent payment by the County. The Contractor shall provide hard copies of supporting invoices and quantity measurements to support all requested earnings along with digital data files of supporting surveys, drawings, and calculations. -- End of Section --
SECTION VII
ADMINISTRATIVE PROCEDURES

1. GENERAL

1.1 SUMMARY

The Contractor shall manage the project and coordinate activities of its own employees, subcontractors, suppliers and offsite fabricators. The Contractor shall use computers, e-mail, and internet resources for administrative work. The Contractor shall notify Engineer of important meetings, scheduled events and activities. The Contractor shall furnish labor and materials and equipment required to plan and execute project management functions and coordination. The Contractor shall coordinate activities and manage resources to construct the project diligently, conforming to the contract, and within budget.

1.2 SUBMITTALS

Bring the following administrative submittal items to the Preconstruction Conference:

Preconstruction Submittals

List of Subcontractors

Submit a list of proposed subcontractors with company name, person to contact, street address, mail address, phone number, type of specialty and estimated subcontract quote.

Signature Authority

Furnish a power of attorney or a notarized letter of authority from Contractor identifying local representatives authorized to sign contract documents.

Drug-Free Work Place Record

Documentation of compliance with Clause DRUG-FREE WORK FORCE (see subparagraphs (b)(1) through (b)(7)).

1.3 PROJECT COORDINATION

The Engineer will be the County’s representative for this contract.

1.3.1 Access to Others

Maintain access to power poles and other items owned or operated by utility companies. Coordinate with utility companies as required for line marking, hookups, and relocations as needed to perform work. Incoming electrical utilities become the responsibility of Contractor at transformers. Coordinate emergency incident response with local law enforcement and fire rescue authorities. Notify Engineer in writing of coordination problems encountered affecting work.

1.4 PROJECT MEETINGS

The Engineer requires the following types of project meetings:

-- Preconstruction Conference
-- Project Progress Meetings

Project meetings are described in detail in subparts below.
1.5 PRECONSTRUCTION CONFERENCE

Engineer will conduct a Preconstruction Conference for this project in accordance with Clause PRECONSTRUCTION CONFERENCE. Preconstruction Conference will be after Notice of Award (NOA) but prior to Notice to Proceed (NTP). (Refer to subparagraph “Preconstruction Conference Submittals” below.) The Engineer will notify Contractor of time, place, and agenda. Contractor shall notify key subcontractors and suppliers to attend. The Engineer will discuss contract "ground rules" and general issues including:

- Lines of Engineer authority
- Lines of Contractor authority
- Contract Clauses
- Technical Specifications
- Special Contract Requirements
- Contract Administration
- Progress Payments
- Correspondence Procedures
- Project Schedule
- Submittal List
- General Site Safety

1.5.1 Preconstruction Conference Minutes

The Engineer will take detailed minutes of the Preconstruction Conference discussions and may use an audio or videotape. Copies of typed minutes will be provided to the Contractor to review for accuracy, sign and return. Signed minutes become part of the contract file. Audio or videotapes if used will be made available for Contractor to review or copy.

1.5.2 Preconstruction Conference Submittals

The timing of submission of submittals and completion of the Preconstruction Conference is intended to allow the Contractor and the County adequate time to prepare for commencement of work. However, should the Contractor fail to submit required items within the times stated, the Engineer may issue NTP prior to receipt of submittals and prior to the Preconstruction Conference. If NTP is issued prior to the Contractor's compliance with submittal requirements and prior to the Preconstruction Conference, the Contractor will not be permitted to commence work until these requirements have been satisfied. Any delays attributable to the Contractor's failure to comply with these pre-work requirements shall be at the Contractor's expense and may be cause for remedial action by the Engineer. Submittals required by this Section are described in paragraph SUBMITTALS above.

1.5.2.1 Other Submittals

In addition to the above, bring listed submittals in draft form to Preconstruction Conference:

- Project Schedule - See SECTION VIII PROJECT SCHEDULE
- Temporary Facilities Plan - See SECTION IX TEMPORARY CONSTRUCTION FACILITIES
- Submittal List

1.6 NOTICE TO PROCEED

Notice to Proceed (NTP) will be issued shortly after completion of the preconstruction conference and following receipt of the NCDCM permit modification and the USACE permit authorization. If the Contractor has failed to submit specified plans, including, but not limited to, the Environmental Protection Plan – SECTION X ENVIRONMENTAL PROTECTION, or has not yet received the Engineer's conditional approval to work under an interim plan, the Contractor shall not proceed with the work and shall consider the work to be suspended in accordance with the Suspension Of Work clause of the contract. While the Contractor is working under a conditionally accepted interim plan, funds may be retained from progress payments in accordance with the Payments Under Fixed-Price
Construction Contracts clause of this contract until such time as the Contractor submits an acceptable plan. If the Contractor does not submit an acceptable plan within a reasonable time, as determined by the Engineer, the Engineer may order the Contractor to suspend work. Any suspension order issued for the Contractor’s failure to submit an acceptable plan will not constitute unreasonable delay under the Suspension Of Work clause and the Contractor will not be entitled to an equitable adjustment of either performance period or contract price.

1.7 PROGRESS MEETINGS

Schedule, convene and preside over progress meetings as required. As project activities increase ("ramp up"), a minimum of one progress meeting per week is typical of a project of this scope. Convene additional meetings as required, or when requested by Engineer. Notify persons needed to be present to discuss agenda issues. Engineer may direct attendance by key Contractor suppliers, or subcontractors as needed. The Contractor shall take minutes of the meetings and distribute copies of the minutes within three working days after the meetings.

-- End of Section --
SECTION VIII
PROJECT SCHEDULE

1. GENERAL

1.1 SUBMITTALS

The following shall be submitted to the Engineer:

Preconstruction Submittals

Initial Project Schedule (IPS)

The IPS as defined below, shall be submitted at the Preconstruction Conference.

Progress Submittals

Periodic Schedule Updates

The Project Schedule (PS) shall be updated as specified below and shall be submitted as part of the Contractor's period request for payment.

2. EXECUTION

2.1 GENERAL REQUIREMENTS

Pursuant to the Clause SCHEDULES FOR CONSTRUCTION CONTRACTS, a Project Schedule as described below shall be prepared. The scheduling of construction shall be the responsibility of the Contractor. Contractor management personnel shall actively participate in its development. Subcontractors and suppliers working on the project shall also contribute in developing and maintaining an accurate Project Schedule. The approved Project Schedule shall be used to measure the progress of the work, and to aid in evaluating time requirements, and to coordinate other activities of interest to the County.

2.2 PROJECT SCHEDULE

Prepare and submit to the Engineer a construction schedule in the form of a progress chart in accordance with the terms in Clause SCHEDULES FOR CONSTRUCTION CONTRACTS, except as modified in this contract. The Contractor shall indicate on the progress chart the anticipated construction duration at each proposed subline location, and breakdown the anticipated construction times on each dredging reach. In addition to the projected fill progress, the project schedule should include any incidental activities that may affect the project or other County business, including scheduled deliveries, commencement or termination of use of identified access areas, scheduled inspections or visitations, any activity that disrupts traffic, etc.

The computer software system utilized by the Contractor to produce the Project Schedule shall be capable of providing all requirements of this specification.

2.2.2 Level of Detail Required

The Project Schedule shall include an appropriate level of detail. The schedule shall contain, but is not limited to, the following conditions to determine the appropriate level of detail to be used:

2.2.2.1 Activity Durations

Contractor submissions shall indicate anticipated activity durations.

2.2.3 Scheduled Project Completion
The schedule interval shall extend from NTP to the contract completion date.

2.3 PROJECT SCHEDULE SUBMISSIONS

The Contractor shall provide the submissions as described below.

2.3.1 Initial Project Schedule Submission

The Initial Project Schedule shall be submitted for approval within 14 calendar days after date of receipt of NTP. The schedule shall provide a reasonable sequence of activities which represent work through the entire project and shall be at a reasonable level of detail.

2.3.2 Periodic Schedule Updates

Based on the result of progress meetings, specified in paragraph PERIODIC PROGRESS MEETINGS below, the Contractor shall submit periodic schedule updates. These submissions shall enable the Engineer to assess Contractor's progress and to coordinate any project activities with the County.

2.4 PERIODIC PROGRESS MEETINGS

Progress meetings to discuss payment shall include a monthly on-site meeting or other regular intervals mutually agreed to by the Engineer and Contractor. During this meeting the Contractor shall describe, on an activity by activity basis, all proposed revisions and adjustments to the Project Schedule required to reflect the current status of the project.

-- End of Section --
SECTION IX
TEMPORARY CONSTRUCTION FACILITIES

1. GENERAL

1.1 SUMMARY

In addition to Construction Facilities this Section covers:

Temporary Utilities
Construction Aids
Vehicular Access and Parking
Project Identification
Staging Areas

See SECTION X ENVIRONMENTAL PROTECTION for requirements including silt control, trailer placement, fueling restrictions, dust control, solid waste, and cleanup. Upon completion of project, clean up and restore area in accordance with Clause CLEANING UP.

a. Construction Facilities include, but are not limited to, the following:

(1) Contractor Offices
(2) Information Bulletin Board
(3) Material and Equipment Storage Area
(4) Fueling Area
(5) Secured Storage Area
(6) Employee Parking Area
(7) Debris Container (dumpster)

b. Temporary Utilities include, but are not limited to, the following:

(1) Water
(2) Electric
(3) Sewage
(4) Communications
(5) Lighting

1.2 REFERENCES

The publications listed below form a part of this specification to extent referenced. The publications are referred to in text by basic designation only.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)


NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70  (2011) National Electrical Code

U.S. ARMY CORPS OF ENGINEERS (USACE)


1.3 SUBMITTALS

Within 10 days following date of receipt of Notice to Proceed and prior to mobilization to site submit the following:
Preconstruction Submittals

Mobilization/Demobilization Plan

Plan shall include, but not be limited to, the following:

a. Mobilization Requirements:
   (1) Methods, equipment and materials
   (2) Connection of utilities
   (3) Placement of site facilities and temporary controls
   (4) Construction of facilities
   (5) Location of staging area of floating plant and pipeline

b. Demobilization Requirements (methods, equipment and materials required to clean-up and restore site at project conclusion):
   (1) Collection, recycle and disposal of solid waste
   (2) Contract-generated material
   (3) Utility disconnection
   (4) Removal of Contractor facilities
   (5) Repair and restoration of site (i.e., fences, roads, vegetation, or permanent facilities)

Shop Drawings

Contractor’s Temporary Facilities

General layout sketch of temporary site facilities shall include, but not be limited to, the following:

a. Trailer locations
b. Parking areas
c. Material storage
d. Equipment lay down area
e. Areas for gravel or matting
f. Fuel areas
g. Supplemental or other staging area
h. Water supply
   i. Holding tanks, port-a-lets
   j. Contaminated water handling
   k. Fences – type, location and dimensions, entrance and exit points, and details of installation

1.4 EXISTING UTILITIES

There are no existing electric lines, potable water, sanitary sewer, or natural gas connections available at the staging area or beach access areas. Contractor is responsible for furnishing all needed utilities at the project site.

1.4.1 Water

In addition to the above, the Contractor shall provide and maintain at his own expense an adequate supply of water for his use for personnel and construction, and to install and maintain necessary supply connections and piping for same, but only at such locations and in such manner as may be approved by the Engineer. The Contractor shall also provide and maintain his own temporary toilet and washing facilities. Toilet and washing facilities shall be installed and maintained in a location approved by the Engineer. Refer to paragraph AVAILABILITY AND USE OF UTILITY SERVICES below.

1.4.2 Electricity
In addition to the above, all electric current required by the Contractor shall be furnished at his own expense.

1.5 BRIDGE-TO-BRIDGE COMMUNICATION

In order that radio communication may be made with passing vessels, all dredges/marine equipment engaged in work under this contract shall be equipped with bridge-to-bridge radio telephone equipment. The radio equipment shall operate on a single channel very high frequency (VHF), FM, on a frequency of 156.55 MC per second with low power output having a communication range of approximately ten miles. The frequency has been approved by the Federal Communications Commission. Channels #13 and #16 must be monitored at all times.

2. EXECUTION

2.1 GENERAL REQUIREMENTS

2.1.1 Identification of Employees

The Contractor shall be responsible for furnishing to each employee, and for requiring each employee engaged on the work to display, identification as approved and directed by the Engineer. Prescribed identification shall immediately be delivered to the Engineer for cancellation upon release of any employee. Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

2.1.2 Employee Parking

a. Park employee’s vehicles in areas as approved by Engineer. Employee’s vehicles shall not be permitted to park in County rights-of-way or other County property without specific permission from the Engineer. Due to the limited parking and beach access locations, the Contractor should anticipate the need to park vehicles at an offsite staging area, or other location approved by the Engineer, and shuttle employees to the beach access area closest to the current construction location.

b. Contractor should protect unattended equipment as it may be subject to vandalism.

2.1.3 Onsite Information

Keep copy of contract drawings, specifications, and other contract documents at Contractor's Office onsite, available for use at all times.

2.2 AVAILABILITY AND USE OF UTILITY SERVICES

Install temporary facilities and utilities in accordance with IEEE C2, NFPA 70, and USACE EM 385-1-1.

2.2.1 Fire Extinguisher

Refer to EM 385-1-1. Non-toxic, dry chemical, fire extinguisher meeting Underwriters Laboratories, Inc., approval for Class A, Class B, and Class C fires with a minimum rating of 2A; 10B; and 10C.

2.2.2 Electric Power

Provide electrical service sufficient to operate heating / air conditioning units. Electrical power shall be purchased or provided directly by Contractor.

2.3 PROTECTION AND MAINTENANCE OF TRAFFIC

The Contractor shall maintain and protect traffic on all affected roads during the construction period except as otherwise specifically directed by the Engineer. Measures for the protection and diversion of traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment and the work, and the erection and maintenance of adequate warning, danger, and
direction signs, shall be as required by the State and local authorities having jurisdiction. The traveling public shall be protected from damage to person and property.

The Contractor's traffic on roads selected for hauling material and equipment to and from the site shall interfere as little as possible with public traffic. Access to Figure “8” Island and the beach fill site shall be carefully coordinated with Mr. David Kellam of the Figure “8” Beach Homeowners Association (910) 686-0635. The Contractor shall investigate the adequacy of existing roads and the allowable load limit on these roads. The Contractor shall be responsible for the repair of any damage to roads caused by construction operations.

2.3.1 Barricades

The Contractor shall erect and maintain temporary barricades to limit public access to hazardous areas. Such barricades shall be required whenever safe public access to paved areas such as roads, parking areas or sidewalks is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

2.4 CONTRACTOR'S TEMPORARY FACILITIES

The Contractor's field offices, staging areas, stockpile storage, and temporary buildings shall be placed in areas approved by the Engineer and in accordance with SECTION X ENVIRONMENTAL PROTECTION. Temporary movement or relocation of Contractor facilities shall be made when approved by the Engineer.

2.4.1 Contractor Field Office

Provide off-site field office of sufficient size and staff capability to manage project activities. The Contractor shall locate and obtain satisfactory office space as close as possible to the work site. Provide communications and computer capabilities to manage the work, including facsimile, electronic mail, reproduction, and to track schedule and costs.

2.4.2 Appearance of Trailer(s)

Trailer(s) used for both office and material storage purposes, dump shack, etc. shall be clean, neat exterior appearance and in good repair. Trailer(s) requiring exterior painting or maintenance will not be allowed on site until determined satisfactory by Engineer.

2.4.3 Dump Train Equipment

Dump shack - capable of maintaining internal ambient air temperature of 75 degrees F in 105 degrees F and 70 degrees F in 30 degrees F. Ensure dump shack generators are exhausted away from dump shack A/C intake and seaward. Ensure all generators and motors are electrically grounded. Fuel sled - ensure double containment for fuel tank, and electrically grounded and have fire extinguisher station. Light plants shall be equipped with grounding rods, and light shields.

2.4.4 Waste Storage

Provide dumpsters or suitable debris containers. Prevent windblown trash; cover as needed. Dispose of offsite when needed. Refer to SECTION X ENVIRONMENTAL PROTECTION.

2.4.5 Fuel Storage and Fueling Operations

Refer to SECTION X ENVIRONMENTAL PROTECTION. Provide light when fueling at night.

2.5 VISITORS

No visitors will be allowed on site without knowledge of Contractor and permission of Engineer. Direct visitors to report upon arrival to Contractor's Field Office for site safety and accident prevention briefing. Provide visitors appropriate protective equipment (i.e., ear plugs, safety glasses, hard hat,
2.6 ACCOMMODATIONS FOR ENGINEER AND INSPECTORS

a. The Contractor shall furnish regularly to inspectors, for office purposes, a suitable space on board the dredge and on the beach. Bathrooms shall be available for inspectors and other County employees.

b. The Contractor shall furnish crew boat transportation for Engineer, Inspectors and other County employees as needed. The boat shall be properly outfitted to meet all safety requirements of the U.S. Coast Guard. The Contractor shall also provide an operator who possesses an appropriate U.S. Coast Guard operator’s license for carrying passengers on board.

2.7 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways shall be cleaned away. Stored material not in trailers shall be neatly stacked when stored. Refer to SECTION X ENVIRONMENTAL PROTECTION for solid waste and post construction cleanup.

2.8 RESTORATION OF STORAGE AREA

Areas used by the Contractor for the storage of equipment or material, or other use, shall be restored to the original or better condition. Grassed or vegetated areas shall be restored to its original condition, including dune restoration, planting and seeding as necessary as determined by the Engineer.

-- End of Section --
SECTION X
ENVIRONMENTAL PROTECTION

1. GENERAL

1.1 SCOPE

This Section covers prevention of environmental damage as the result of construction operations under this contract and for those measures set forth in other Technical Requirements of these specifications. For the purpose of this specification, environmental damage is defined as the presence of hazardous, physical, chemical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances; affect other species, biological communities, or ecosystems; or degrade the quality of the environment for aesthetic, cultural, and/or historical purposes. The control of environmental damage requires consideration of land, water, and air, and includes management of visual aesthetics, noise, solid waste, radiant energy and radioactive materials, as well as other pollutants.

The Contractor shall minimize environmental pollution and damage that may occur as the result of construction operations. The environmental resources within the project boundaries and those affected outside the limits of permanent work shall be protected during the entire duration of this contract. The Contractor shall comply with all applicable environmental Federal, State, and local laws and regulations. The Contractor shall be responsible for any delays resulting from failure to comply with environmental laws and regulations.

1.2 REFERENCES

1.2.1 Miscellaneous Environmental Laws And Regulations

There are numerous environmental laws and regulations. At the Federal level, the applicable laws and regulations include compliance with the Clean Water Act (CWA); Clean Air Act (CAA); Coastal Zone Management Act (CZMA); Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Endangered Species Act (ESA); Fish and Wildlife Coordination Act (FWCA); Marine Protection, Research, and Sanctuaries Act (MPRSA); Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA); National Environmental Policy Act (NEPA); National Historic Preservation Act (NHPA); National Pollution Discharge Elimination System (NPDES); Research and Sanctuaries Act; Resource Conservation and Recovery Act (RCRA); Rivers and Harbors Act (R&H); Safe Drinking Water Act (SDWA); Toxic Substance Control Act (TSCA); Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA); Marine Mammal Protection Act (MMPA); Code of Federal Regulations (CFRs); Executive Orders; and, Environmental Protection Agency (EPA) requirements. NEPA compliance measures specified in an Environmental Assessment (EA) or Environmental Impact Statements (EIS) are also applicable with regard to compliance.

1.2.2 Publication Reference(s)

The publications listed below forms a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)


U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

33 CFR 328 Definitions of Waters of the United States
1.3 QUALITY CONTROL

The Contractor shall establish and maintain quality control for environmental protection of all items set forth herein. The Contractor shall record on daily quality control reports or attachments thereto, any problems in complying with laws, regulations and ordinances, and corrective action taken.

1.4 PERMITS AND AUTHORIZATIONS

The Contractor shall obtain all needed permits or licenses other than those listed below. The County will not obtain any additional permits for this project. The Contractor shall be responsible for implementing the terms and requirements of the appropriate permits as needed and for payment of all fees.

In addition to the above, the Contractor shall comply with all requirements under the terms and conditions set out in the following permits obtained by the County and listed below.

- a) North Carolina Department of Environment & Natural resources Permit 151-01 and associated modifications.
- b) US Army Corps of Engineers Action ID #SAW-199901052.
- c) North Carolina Division of Water Quality 401 Certification #3274.

The above permits for the previous maintenance projects are presented in Appendix D for the Contractor’s information. Modifications to the above referenced permits to authorize this project will be provided to the Contractor prior to Notice to Proceed. The Contractor shall obtain and comply with the requirements of all permits or licenses required for construction of this project in accordance with the Clause PERMITS AND RESPONSIBILITIES.

1.5 SUBMITTALS

The following shall be submitted to the Engineer:

Preconstruction Submittals

Environmental Protection Plan

Within 14 calendar days after the date of Notice of Award, the Contractor shall submit an Environmental Protection Plan for review and acceptance by the Engineer. The County will consider an interim plan for the first 14 days of operations. However, the Contractor shall furnish an acceptable final plan no later than 14 calendar days after receipt of Notice to Proceed. Acceptance of the Contractor's plan shall not relieve the Contractor of his responsibility for adequate and continuing control of pollutants and other environmental protection measures. Acceptance of the plan is conditional and predicated on satisfactory performance during construction. The County reserves the right to require the Contractor to make changes to the Environmental Protection Plan or operations if the Engineer
determines that environmental protection requirements are not being met. No physical work at the site shall begin prior to acceptance of the Contractor's plan or an interim plan covering the work to be performed.

No requirement in this Section shall be construed as relieving the Contractor of any applicable Federal, State, and local environmental protection laws and regulations. During Construction, the Contractor shall be responsible for identifying, implementing, and submitting for approval any additional requirements to be included in the Environmental Protection Plan.

The Environmental Protection Plan shall include but not be limited to the following:

a. Methods for protection of features to be preserved within authorized work areas. The Contractor shall prepare a listing of methods to protect resources needing protection, i.e., trees, shrubs, vines, grasses and ground cover, landscape features, air and water quality, fish and wildlife, soil, historical, archeological, and cultural resources.

b. Procedures to be implemented to provide the required environmental protection and to comply with the applicable laws and regulations. The Contractor shall provide written assurance that immediate corrective action will be taken to correct pollution of the environment due to accident, natural causes, or failure to follow the procedures set out in accordance with the environmental protection plan.

c. Drawings showing locations of any proposed temporary excavations or embankments for haul roads, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials.

d. Environmental monitoring plans for the job site, including land, water, air, and noise monitoring.

e. Traffic control plans including measures to reduce erosion of temporary roadbeds by construction traffic, especially during wet weather. Plan shall include measures to minimize the amount of sediment or other debris transported onto paved public roads by vehicles or runoff.

f. Methods of protecting surface and ground water during construction activities.

g. Spill prevention. The Contractor shall specify all potentially hazardous substances to be used on the job site and intended actions to prevent accidental or intentional introduction of such materials into the air, ground, water, wetlands, or drainage areas. The plan shall specify the Contractor’s provisions to be taken to meet Federal, State, and local laws and regulations regarding labeling, storage, removal, transport, and disposal of potentially hazardous substances.

h. Spill contingency plan for hazardous, toxic, or petroleum material.

i. Work area plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan should include measures for marking the limits of use areas.

j. Plan of dredging areas, and pipeline location and handling plan.

k. A non-hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including clearing debris. The plan shall include schedules for disposal.

Closeout Submittals

Logs/Final Summary Report
Contractor shall submit as specified, logs and final summary report of sightings and incidents with endangered species.

1.6 SUBCONTRACTORS

Assurance of compliance with this Section by subcontractors shall be the responsibility of the Contractor.

1.7 NOTIFICATION

The Engineer will notify the Contractor in writing of any observed noncompliance with the aforementioned Federal, State, or local laws or regulations, permits and other elements of the Contractor's environmental protection plan. The Contractor shall, after receipt of such notice, inform the Engineer of proposed corrective action and take such action as may be approved. If the Contractor fails to comply promptly, the Engineer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions shall be granted, nor costs nor damages allowed to the Contractor for any such suspension.

1.8 CONTRACTOR PERSONNEL QUALIFICATIONS IN ENVIRONMENTAL PROTECTION

The Contractor's personnel shall be qualified to perform all phases of environmental protection, including methods of detecting and avoiding pollution, familiarization with pollution standards, both statutory and contractual, and careful installation and monitoring of the project to ensure adequate and continuous environmental pollution control. Quality Control and supervisory personnel shall be thoroughly knowledgeable of Federal, State, and local laws, regulations, and permits as listed in the Environmental Protection Plan submitted by the Contractor.

1.9 PAYMENT

No separate payment to the Contractor shall be made for meeting the requirements of this Section. All costs incidental to satisfying these requirements shall be included in the bid item for DREDGING AND BEACH FILL.

2. EXECUTION

2.1 PROTECTION OF ENVIRONMENTAL RESOURCES

For contract work, the Contractor shall comply with all applicable Federal, State, or local laws and regulations. The environmental resources within the project boundaries and those affected outside the limits of permanent work under this contract shall be protected at least during the entire period of this contract. The Contractor shall confine his activities to areas defined by the drawings and specifications. Environmental protection shall be as stated in the following subparagraphs.

2.1.1 General Project Environmental Design and Installation Criteria

At all sites, the Contractor shall minimize disturbance to existing features at the site to the extent possible, including vegetative, topographic, and drainage pattern features. Wetland impacts and impacts to beach dunes (temporary access, detours, staging areas, and other work area impacts) should be avoided and may require separate permitting action. Any wetlands or dunes temporarily impacted shall have its soil and vegetation restored upon project completion. Expansion of previously permitted project footprints may likewise require separate permitting action.

In all cases, the installation of temporary systems to aid construction shall provide for protection of the environment during handling, installing, storing, utilizing, transporting, servicing, testing, refilling, transferring, pumping, processing, removing waste products, repairing and maintaining systems and their components. Necessary protection shall also be considered that would prevent contamination of the environment from impacts to the systems caused by storm water runoff and flooding. Retrofit of temporary systems on project sites to modern environmental protection design standards shall also be considered.
In the event environmental protection measures fail, the Contractor shall implement procedures to control and correct environmental damage.

2.1.1.1 Sewage-Based Systems Environmental Design and Installation Criteria

In general, there shall be no waste or debris discharges of any kind unless authorized by the Engineer. This shall include the Contractor's providing sufficient temporary sanitary equipment and facilities for the project. The design and/or installation of temporary sewage systems shall ensure that waters will be free of effects of sewage discharges. Applicable Federal, State, or local codes and requirements regarding sewage shall be strictly adhered to in the design, such as those of the EPA and Chapter 130A of the General Statutes of North Carolina. Best Management Practices from the applicable agencies shall also be adhered to in the design.

2.1.2 Protection of Land Resources

Prior to the beginning of any construction, the Contractor shall identify all land resources to be preserved or avoided within the Contractor's work area. Materials displaced into uncleared areas shall be removed. The Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and landforms without special permission from the Engineer. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. Where such special emergency use is permitted, the Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs.

2.1.2.1 Work Area Limits

Prior to any construction, the Contractor shall mark the areas that are not required to accomplish all work to be performed under this contract. Isolated areas within the general work area which are to be saved and protected shall also be marked or fenced. The Contractor shall protect from damage all existing trees designated to remain. Protection of tree roots shall be provided against noxious materials in solution caused by run-off or spillage. Monuments and markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, the markers shall be visible. The Contractor shall convey to his personnel the purpose of marking and/or protection of all necessary objects.

2.1.2.2 Contractor Facilities and Other Work Areas

Locate facilities, staging and other work areas as indicated in SECTION IX TEMPORARY CONSTRUCTION FACILITIES, and in compliance with permits listed in the paragraph PERMITS AND AUTHORIZATIONS above and obtained for performance of work. Temporary movement or relocation of Contractor facilities shall be made when approved by the Engineer. Temporary excavation and embankments for plant and/or work areas shall be controlled to protect adjacent areas from despoilment.

2.1.2.3 Solid Wastes

Solid wastes (excluding clearing debris) shall be placed in containers which are emptied on a regular schedule. All handling and disposal shall be conducted to prevent contamination. Solid waste materials shall be hauled to an approved solid waste disposal site. The Contractor shall comply with Federal, State, and local regulations pertaining to the use of the solid waste disposal site.

2.1.2.4 Fuel, Oil, and Lubricants

Fuel, oil, and lubricants shall be managed so as to prevent spills and evaporation. To prevent spills, fuel dispensers shall be double-hulled or have a 4-foot square, 16-gauge metal pan with borders banded up and welded at corners right below the bibb. Edges of the pans shall be 8-inch minimum in depth to ascertain that no contamination of the ground takes place.
Pans shall be cleaned by an approved method immediately after every dispensing of fuel and wastes disposed of offsite in an approved area. Should any spilling of fuel occur, the Contractor shall immediately recover the contaminated ground and dispose of it offsite in an approved area. Petroleum waste generated shall be stored in marked corrosion-resistant containers and recycled or disposed of in accordance with 40 CFR 279, State, and local regulations.

2.1.2.5 Hazardous Waste

Hazardous wastes are defined in 40 CFR 261. The Contractor shall ensure that hazardous wastes are stored and disposed of in accordance with 40 CFR 261 and State and local regulations. The Contractor shall ensure that hazardous wastes are packed, labeled, and transported in accordance with 49 CFR 173 and State and local regulations.

2.1.2.6 Hazardous Materials

The Contractor shall ensure that hazardous materials are labeled, stored, and transported in accordance with 49 CFR 173, State, and local regulations.

2.1.2.7 Disposal of Other Materials

Other materials than previously discussed (Construction and Demolition, vegetative waste, etc.) shall be handled as directed.

2.1.3 Preservation and Recovery of Historic, Archeological, and Cultural Resources

2.1.3.1 Applicable Law

A number of Federal laws require protection of cultural resources. Two laws, in particular, can be potentially involved with dredging activities: (1) the National Historic Preservation Act, as amended; and, (2) the Abandoned Shipwreck Act.

2.1.3.2 Known Resources

If known historic, archeological and cultural resources within the Contractor's work area(s) are present, it will be designated as a "potentially significant cultural resource" on the contract drawings or other documents. If so designated, the Contractor shall install protection for these resources and shall be responsible for their preservation during the contract's duration. The Contractor shall not distribute maps or other information on these resource locations except for distribution among the Contractor's staff with a "need to know" technical responsibility for protecting the resources.

2.1.3.3 Inadvertent Discoveries

If, during construction activities, the Contractor observes items that may have historic or archeological value, such observations shall be reported immediately to the Engineer so that a determination for what, if any, additional action is needed. Examples of historic, archeological and cultural resources are bones, remains, artifacts, shell, midden, charcoal or other deposits, rocks or coral, evidences of agricultural or other human activity, alignments, and constructed features. The Contractor shall cease all activities that may result in the destruction of these resources and shall prevent his employees from further removing, or otherwise damaging, such resources.

2.1.3.4 Claims for Downtime due to Inadvertent Discoveries

Upon discovery and subsequent reporting of a possible inadvertent discovery of cultural resources, the Contractor shall seek to continue work well away from, or otherwise protectively avoiding, the area of interest, or in some other manner that strives to continue productive activities in keeping with the contract. Should an inadvertent discovery be of the nature that substantial impact(s) to the work schedule are evident, such delays shall be
coordinated with the Engineer. Contract adjustments resulting from compliance with this paragraph shall be determined in accordance with Clause DIFFERING SITE CONDITIONS.

2.1.4 Protection of Water Resources

The Contractor shall keep construction activities under surveillance, management, and control to avoid pollution of surface, ground waters, and wetlands. The Contractor shall plan his operation and perform all work necessary to minimize adverse impact or violation of the water quality standard. Special management techniques as set out below shall be implemented to control water pollution by the listed construction activities which are included in this contract. The Contractor’s construction methods shall protect wetland and surface water areas from damage due to mechanical grading, erosion, sedimentation and turbid discharges. There shall be no storage or stockpiling of equipment, tools, or materials within wetlands or along the shoreline within the littoral zone unless specifically authorized.

2.1.4.1 Washing and Curing Water

Waste waters directly derived from construction activities shall not be allowed to enter water areas. These waste waters shall be collected and placed in retention ponds where suspended materials can be settled out or the water evaporates so that pollutants are separated from the water. Analysis shall be performed and results reviewed and approved by Corps Engineer before water in retention ponds is discharged.

2.1.4.2 Monitoring of Water Areas

Monitoring of water areas affected by construction activities shall be the responsibility of the Contractor. All water areas affected by construction activities shall be monitored by the Contractor.

2.1.4.3 Turbidity

The Contractor shall conduct its dredging and disposal operations in a manner to minimize turbidity and shall conform to all water quality standards as prescribed by the North Carolina Coastal Area Management Act (CAMA), Chapter 7H of the North Carolina Administrative Code and the North Carolina Division of Water Quality General Permit to Discharge Sand Dredging Wastewater General Permit No. NC520000 and associated Permits. The NC DWQ Water Quality Certificate does not specify testing, but specifies that discharges into saltwater shall be less than 25 NTU. The Contractor shall take necessary actions to insure compliance with this standard. However, documentation of turbidity testing is not a direct requirement of this contract.

2.1.4.4 Oil, Fuel, and Hazardous Substance Spill Prevention and Mitigation

The Contractor shall prevent oil, fuel, or other hazardous substances from entering the air, ground, drainage, local bodies of water, or wetlands. This shall be accomplished by design and procedural controls. In the event that a spill occurs despite the design and procedural controls, the following shall occur:

1. Immediate action shall be taken to contain and cleanup any spill of oil, fuel or other hazardous substance.
2. Spills shall be immediately reported to the Engineer.
3. Spill contingency planning shall be strictly in accordance with the criteria of 40 CFR, Part 109.
4. To control the spread of any potential spill, absorbent materials shall be readily available and capable of absorbing the contents of the single largest tank.
5. To control the spread of any potential spill, the Contractor shall provide a written certification of commitment of manpower, equipment, and materials required to
expeditiously cleanup and dispose of spill materials.

Spill Preventive Systems: System design and installation requirements have been discussed at the beginning of this Section. Temporary or portable tanks shall conform to applicable Federal, State, and local codes and requirements and shall not be placed where they may be affected by storm, flooding, or washout. Diversionary structures for spills shall be put in place in advance where practical. Both spill preventive systems and any deviations from associated requirements must be approved by the Engineer prior to implementation.

Liabilities: The Contractor shall be liable in the amounts established in 40 CFR, Part 113 when it can be shown that oil was discharged as a result of willful negligence or willful misconduct. The penalty for failure to report the discharge of oil shall be in accordance with the provision of 33 CFR, Part 153.

2.1.5 Protection of Air Resources

The Contractor shall keep construction activities under surveillance, management, and control to minimize pollution of air resources. All activities, equipment, processes and work operated or performed by the Contractor in accomplishing the specified construction shall be in strict accordance with the applicable air pollution standards of the State of North Carolina (North Carolina Administrative Code, Air Quality Rules, 15A NCAC 2D) and all Federal emission and performance laws and standards, including the U.S. Environmental Protection Agency's Ambient Air Quality Standards. Information regarding North Carolina Rules can be obtained from the following web sites:

https://deq.nc.gov/about/divisions/air-quality;
http://reports.oah.state.nc.us/ncac.asp?folderName=%5CTitle%2015A%20-%20Environmental%20Quality.

2.1.5.1 Particulates

Particulates, such as dust, shall be controlled at all times, including weekends, holidays, and hours when work is not in progress. The Contractor shall maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and work areas within or outside the project boundaries free from particulates that would cause air pollution standards to be exceeded or that would cause a hazard or nuisance. The Contractor shall have the necessary equipment and approved methods to control particulates as the work proceeds and before a problem develops.

2.1.5.2 Burning

No burning of debris or vegetation shall be allowed on this project.

2.1.5.3 Odors

Odors shall be controlled at all times for all construction activities.

2.1.6 Protection of Sound Intrusions

The Contractor shall keep construction activities under surveillance and control to minimize damage to the environment by noise. Stationary, land-based equipment shall have exhausts directed seaward whenever possible and mufflers shall be utilized.

2.1.7 Protection of Fish and Wildlife Resources

The Contractor shall minimize interference with, disturbance to, and damage to fish, wildlife, and plants including their habitat.

Species federally listed as endangered or threatened receive a high level of protection under the Endangered Species Act of 1973 (PL 93-205), as amended. Endangered or threatened species, including sea turtles, whales, manatees, shortnose and Atlantic sturgeons, and piping plovers
may be encountered in the project area during construction of this project. In addition, all marine mammals, including porpoises, and dolphins, are protected under the Marine Mammal Protection Act of 1972 (PL 92-522), as amended. Therefore, the Contractor shall be responsible for the protection of threatened and endangered animal and plant species including their habitat in accordance with Federal, State, Regional, and local laws and regulations. The Contractor shall take such measures as may be required to assure that any activities conducted as a part of this contract do not kill, injure, capture, pursue, harass, or otherwise harm any of these species. Specific types of equipment and operations pose different types of hazards, so specific protective measures will vary depending upon the type of operation being conducted. The Contractor should be aware that protected species frequently occur in North Carolina waters and work should be planned accordingly.

Notification and reporting requirements for incidents involving protected species. Incidents involving the death or injury of any protected species or the recovery of any body parts of these species, including sea turtles (as well as adults, hatchlings, and/or eggs), whales, dolphins, porpoises, and shortnose and Atlantic sturgeons, have specific requirements for agency notification. Any dead, injured, or sick individual of any protected species found in the project area by the Contractor shall be left undisturbed and the Engineer or his/her designated representative shall be notified immediately. The Contractor shall also prepare and provide to the Engineer or his/her designated representative written records detailing any such incident involving protected species within 24 hours of its occurrence.

2.1.7.1 Manatees

The West Indian Manatee may be found in the project area during summer and fall months. The proposed project is proposed to occur outside this time period; therefore, compliance with specific avoidance requirements is not necessary. However, the Contractor shall be cognizant that individual manatees may pass through the project area as they return to home waters in Florida, or may be distressed or disoriented and unable to safely return home. The Contractor shall remain alert for the presence of manatees during the life of the contract.

If a manatee is observed, the Contractor shall immediately contact the Contract Officer or his/her designated representative. If a manatee is seen within 300 feet of the dredging operation or vessel movement, all appropriate precautions will be implemented to ensure protection of the manatee. These precautions include the immediate shutdown of moving equipment if a manatee comes within 50 feet of the operation area of the equipment. Activities will not resume until the manatee has departed the project area on its own volition (i.e., it may not be herded or harassed from the area) or has been moved by authorized individuals.

The Contractor is advised that there are civil and criminal penalties for harming, harassing, or killing manatees, which are protected under the Marine Mammal Protection Act and the Endangered Species Act.

2.1.7.2 Migratory Birds

All construction personnel shall be advised that migratory birds, including the bald eagle, are protected under the Migratory Bird Treaty Act of 1918, as amended. The Contractor shall not harm or harass these birds, their eggs, or their nests as a result of any activities conducted under this contract. If, during any land-based aspects of the project, nesting birds are encountered, the Engineer or his/her designated representative shall be contacted immediately for instructions. Prior to the placement of pipe on the beach, the Contractor shall meet onsite with the Engineer or his/her designated representative and a representative of the North Carolina Wildlife Resources Commission to determine the exact pipeline route so as to minimize impacts to the piping plover and other shorebirds. The Contractor shall hire an independent, experienced bird monitor to be on site each day during beach construction activities in accordance with permit requirements.

2.1.7.3 Avoidance of Marine Mammals

Records shall be kept of the date, time, and approximate location of all marine mammal sightings. Care shall be taken not to closely approach (within 300 feet) any manatees, or other marine mammals during dredging operations or transportation of dredged material. The
observer shall serve as a lookout to alert the dredge operator and/or vessel pilot of the occurrence of these animals.

If manatees are observed within 300 feet of the area being dredged, all work shall cease until the animals have left the area. If any marine mammals are observed during other dredging operations/ including vessel movements and transit to the dredged material disposal site, collisions shall be avoided either through reduced vessel speed, course alteration/ or both. Sightings of manatees or other marine mammals (alive, injured/ or dead) in the work area shall be reported to the Engineer or his/her designated representative as soon as possible.

2.2 POSTCONSTRUCTION CLEANUP

The Contractor shall clean up any area(s) used for construction.

2.3 PRESERVATION AND RESTORATION OF LANDSCAPE AND MARINE VEGETATION DAMAGES

The placement of swing anchors shall be at the minimum distance outside the channel toes to provide for efficient maneuvering of the dredge, and to avoid damage to marsh grasses. The Contractor shall restore all landscape features and marine vegetation damaged or destroyed during construction operations outside the limits of the approved beach fill areas. Such restoration shall be a part of the Environmental Protection Plan as defined in subparagraph "Environmental Protection Plan" of paragraph SUBMITTALS above. This work shall be accomplished at the Contractor's expense.

2.4 MAINTENANCE OF POLLUTION CONTROL FACILITIES

The Contractor shall maintain all constructed facilities and pollution control facilities and devices for the duration of the contract or for that length of time construction activities create the particular pollutant.

-- End of Section --
SECTION XI
DREDGING AND BEACH FILL

1. GENERAL

1.1 SCOPE

The base bid work covered by this Section consists of furnishing all labor, materials, and equipment, and performing all excavation, transportation, and placement of all shoaled material from Mason Creek (Stations 4+00 to 59+00), and the AlWW Section 3 Tangent 12, (Stations 70+00 to 100+00), to the limits of dredging indicated on the construction plans, and as specified herein. There is also an optional excavation area seaward of the Colregs line from Sta.4+00 to 0+00 in Mason Inlet. All dredge material within the creek, channel, and inlet will be excavated by hydraulic cutter suction dredge to the permitted depths and transported through pipelines to the beachfill areas shown on the plans.

There are necessary measures for protection of the environment. Environmental protection requirements under this contract are as important to overall completion of work as other technical aspects. Failure to meet the requirements of these specifications for environmental protection may result in work stoppages, or termination for default. No part of the time lost due to any such work stoppages shall be made the subject of claims for extension of time or for excess costs or damages by the Contractor. If the Contractor fails or refuses to promptly repair any damage caused by violation of the provisions of these specifications, the County may have the necessary work performed and charge the cost thereof to the Contractor.

1.2 WORK COVERED BY CONTRACT PRICE

The contract price per cubic yard, as listed for "DREDGING AND BEACH FILL" of the BID SCHEDULE shall include the cost of all plant, material, supplies, labor, and incidental expenses in connection with the excavating, transporting, placing and shaping the beach fill material; temporary safety fencing and temporary warning signs; all diking, embankments, and temporary bulkheading needed for control and confining the material and discharge fluid; and surveys for the layout and control of the dredging work and for the beach fill work.

1.3 SUBMITTALS

The following shall be submitted as indicated:

1.3.1 Pre-Construction Submittals:

Construction Schedule

The Contractor shall submit a fully developed construction schedule within one (1) week after Award. The schedule shall be a bar chart or equivalent type schedule indicating in detail each construction activity and equipment to be utilized. The duration, man loading, and Contractor's dollar value shall be assigned to each activity (which will be used for progress payment analysis/invoice approvals).

Dredging Operations Plan

The Contractor shall prepare and submit for approval a dredging operations plan detailing the dredging sequence and the dredge plant and equipment to be used.

Beach Fill Operations Plan

The Contractor shall prepare and submit for approval a beach fill operations plan detailing the beach fill sequence and the shore facilities and equipment to be used.

Pipeline Layout Plan
The Contractor shall prepare and submit for approval a pipeline route plan, detailing the locations and method of placement of all dredge discharge pipelines. The plan shall include the method by which the pipeline will be placed to avoid impedance of commercial and recreational marine traffic. The pipeline will be placed to avoid impacts to wetlands, dunes and vegetation. It is anticipated that the pipeline shall be routed up the beach from Mason Inlet as shown on the plans. All easements with private property owners for access or routing shall be the sole responsibility of the Contractor.

Structures Protection Plan

The Contractor shall submit to the Engineer a “Structures Protection Plan” prior to the placement of beachfill. Approval of the plan will not relieve the Contractor of responsibility of damages to private or public property.

Notice of Intent to Dredge

Prior to commencement of work on this contract, the Contractor will be required to notify the Commander, Fifth Coast Guard District of his intent to dredge and request that it be published in the Local Notice to Mariners. This notification must be given in sufficient time so that it appears in the Notice to Mariners at least 30 days prior to the commencement of this operation. A copy of the notification shall be provided to the Engineer.

Notice of Need for Pre-Dredge and Pre-Fill Surveys

The Contractor shall give 48 hours advance notice, in writing, to the Engineer of the need for a pre-dredge and pre-fill survey. The surveys are required for payment and for final acceptance of the project.

Equipment and Performance Data

The Contractor shall furnish proof of electronic positioning equipment calibration to the Engineer.

1.3.2 Construction Submittals:


The Contractor shall prepare and submit via email a copy of the Daily Report of Operations, using a format approved by the Engineer, for each dredge and/or unloader working. This report shall be submitted on a daily basis, by 12:00 noon the following workday, and not in groups (multi-days reports packaged together at one time). In addition to the daily report, the Contractor shall prepare a Monthly Report of Operations for each month or partial month's work. The monthly report shall be submitted on or before the 7th of each month, consolidating the previous month's work. Upon completion of the job, the Contractor shall submit a consolidated job report, combining the monthly reports.

Additionally, one copy of the daily reports shall be maintained by the Contractor on the dredge for inspection purposes. Further instructions on the preparation of the report will be furnished at the Award Conference.

Notice of Misplaced Material

The Contractor shall notify the U.S. Coast Guard Marine Safety Office of any misplaced material as stated in Clause OBSTRUCTION OF NAVIGABLE WATERWAYS.

Grade Stake Log

The Contractor shall prepare and maintain a log to inventory the grade stakes used on the project. The log shall include information concerning the location, installation, and recovery of
all grade stakes. The Contractor shall make this log available for review by the Engineer upon request. Upon completion of the project, the Contractor shall furnish the log to the Engineer.

Grade Stake Recovery

After completion of the project, the Contractor shall provide a letter to the Engineer certifying that all grade stakes have been recovered in accordance with the Contractor’s approved Construction and Grade Stake Recovery Plan.

Notification of Discovery of Historical Period Shipwreck Sites

The Contractor shall immediately notify the Engineer if any shipwreck, artifact, or other objects of antiquity that have scientific or historical value, or are of interest to the public, are discovered, located, and/or recovered.

Declaration of Inspection Stateside

Refer to paragraph FUEL OIL TRANSFER OPERATIONS below for submittal.

1.3.3 Post-Construction Submittals:

Notice of Need for Post-Dredge and Post-Fill Surveys

The Contractor shall give 48 hours advance notice, in writing, to the Engineer of the need for a post-dredge and post-fill survey. The surveys are required for payment and for acceptance of the work.

Consolidated Job Report

Upon completion of the job, the Contractor shall submit a consolidated job report, combining daily reports as discussed under “Daily/Monthly Report of Operations”.

Environmental Protection Logs/Final Summary Report

Contractor shall submit as specified logs and final summary report of sightings and incidents with endangered species. Refer to SECTION X ENVIRONMENTAL PROTECTION for more information.

As-Built Contract Plans

The Contractor shall maintain a separate set of full-size contract plans, marked up in red, to indicate as built conditions. Each as built contract drawing shall include the Contract Number associated with the contract. These plans shall be maintained in a current condition at all times until completion of the work and shall be available for review by the Engineer and Regulatory Agencies at all times. All variations from the contract plans, for whatever reason, including those occasioned by modifications, optional materials, and the required coordination between trades, shall be indicated. These variations shall be shown in the same general detail utilized in the contract plans. Upon completion of the work, the Contractor shall sign the marked-up plans in the following manner: “I CERTIFY THAT THESE CORRECTED PLANS INDICATE CONSTRUCTION AS ACTUALLY PERFORMED AND ARE AN ACCURATE REPRESENTATION OF THE SPECIFIED WORK. THESE CORRECTED PLANS ARE APPROVED FOR PREPARATION OF AS BUILT CONSTRUCTION PLANS.” The marked-up plans shall then be furnished to the Engineer prior to acceptance of the work. The County reserves the right to withhold final payment until acceptable as built contract plans have been submitted.

1.4 ORDER OF WORK

The Contractor shall begin dredging in the AIWW dredging area and complete the required excavation and obtain acceptance of this area prior to beginning dredging in the Mason Creek-Mason Inlet dredging areas. The Contractor shall begin his filling operations at the southern limit of the beneficial reuse placement area as shown on the plans and shall progress in a northerly direction. The Contractor shall maintain a continuous filling operation without any intervening gaps. The order
of work shall be coordinated with the Engineer prior to mobilization and may be altered by the Engineer as needed to provide for protection of property and environment.

No payment will be made for work done in any area designated by the Engineer until the full depth required under the contract is secured in the whole of such area, unless prevented by ledge rock, nor will payment be made for excavation in any area not adjacent to and in prolongation of areas where full depth has been secured, except by decision of the Engineer. Should any such nonadjacent areas be excavated to full depth during the operations carried under the contract, payment for all work therein may be deferred until the required depth has been made in the area intervening. The Contractor may be required to suspend dredging at any time when, for any reason, the gauges or ranges cannot be seen or properly followed.

1.5 PUMPING OF BILGES

Contractors are warned that pumping oil or bilge water containing oil into navigable waters, or into areas which would permit the oil to flow into such waters, is prohibited by Section 13 of the Rivers and Harbors Act of 1899, approved 3 March 1899 (30 Stat. 1152; 33 U.S.C. 407). Violation of this prohibition is subject to penalties provided under the referenced Act.

1.6 HISTORICAL PERIOD SHIPWRECK SITES

If any shipwreck, artifact, or other objects of antiquity that have scientific or historical value, or are of interest to the public, are discovered, located, and/or recovered, the Contractor acknowledges that:

The site(s), articles, or other materials are the property of the State of North Carolina, with title vested in the North Carolina General Statutes, Chapter 121 and that, he shall immediately notify the Engineer.

Refer to subparagraph "Preservation and Recovery of Historic, Archeological, and Cultural Resources" of SECTION X ENVIRONMENTAL PROTECTION.

1.7 FINAL CLEANUP

Final cleanup, as stated in the paragraph COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK, shall include the removal of all of the Contractor's plant and equipment either for disposal or reuse. Plant and/or equipment to be disposed of shall ONLY be disposed of in a manner and at locations approved by the Engineer. The Contractor will not be permitted to abandon pipelines, pipeline supports, pontoons, or other equipment in the disposal area, pipeline access areas, water areas, beach areas, or other areas adjacent to the work site.

1.8 WORK AND ACCESS AREAS

1.8.1 Staging and Access Areas

The limits of the staging and access areas proposed by the Contractor shall be field determined by the Engineer in coordination with the County and the Contractor. It shall be the responsibility of the Contractor to investigate and obtain any additional areas which may be necessary for his/her construction operations. The additional areas will be subject to the approval of the Engineer.

1.8.2 Contractor Responsibilities

Access to the dredge area is by water only. The Contractor shall be responsible for providing access to the site for their employees and the Engineer when requested. The Contractor shall be responsible for obtaining all necessary permissions for use of landing areas to load and offload its crews.

The Contractor shall exclude the public from the work area in the immediate vicinity of his operations. The Contractor shall install warning signs to warn the public and all commercial recreational boats of all construction activities. The Contractor shall be responsible for providing and maintaining all water and land access routes necessary for his equipment and plant to and
from the work sites. The Contractor shall ascertain the environmental conditions which can affect water and land access, such as climate, terrain, winds, current, waves, swells, depths, shoaling, and scouring tendencies.

1.9 ADJACENT PROPERTY AND STRUCTURES

Any damage to private or public property within the project boundaries, including staging site(s) and work and access areas/roads, shall be repaired promptly by the Contractor. Any damage as a result of the Contractor's operations shall be repaired at his own cost.

1.10 PERMITS AND RESPONSIBILITIES

The Contractor's attention is directed to the Clause PERMITS AND RESPONSIBILITIES and paragraph PERMITS AND AUTHORIZATIONS of SECTION X ENVIRONMENTAL PROTECTION.

1.11 FUEL OIL TRANSFER OPERATIONS

In accordance with U.S. Coast Guard regulations (33 CFR 156.120), couplings used in fuel oil transfer operations on any vessel with a capacity of 250 or more barrels of oil shall be either a bolted or full-threaded connection; or a quick-connect coupling approved by the Commandant; or an automatic back-pressure shutoff nozzle used to fuel the vessel. An executed fuel oil transfer (Declaration) form signed by the tanker operator shall be submitted to the Engineer for each refueling operation. The U.S. Coast Guard shall also be notified prior to any refueling.

1.12 SIGNAL LIGHTS

The Contractor shall display signal lights and conduct operations in accordance with the applicable Coast Guard regulations governing lights and day signals to be displayed by towing vessels with tows on which no signals can be displayed, vessels working on wrecks, dredges, and vessels engaged in laying cables or pipe or in submarine or bank protection operations, lights to be displayed on dredge pipe lines, and day signals to be displayed by vessels of more than 65 feet in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as set forth in Commandant U.S. Coast Guard Instruction M16672.2, Navigation Rules: International-Inland (COMDTINST M16672.2), or 33 CFR 81 Appendix A (International) and 33 CFR 84 through 33 CFR 89 (Inland) as applicable.

1.13 NOISE CONTROL

All equipment, dredge/barges, boats, and tugs used on this work shall be equipped with satisfactory mufflers or other noise abatement devices. The Contractor shall conduct its operations so as to comply with all federal, state, and local laws pertaining to noise. The use of horns and whistle signals shall be held to the minimum necessary in order to ensure as quiet an operation as possible.

1.14 WORK VIOLATIONS

Work done in violation of these specifications or a verbal or written stop order of the Engineer will be considered as unsatisfactory progress for purposes of progress payments in accordance with Clause PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS.

1.15 COMMUNICATIONS

The Contractor shall furnish and maintain a VHF marine band radio and a cellular phone on the dredge(s) throughout the period of the contract. The plant will not be allowed to begin work until the VHF marine band radio is installed and in good working order and a properly operating cellular phone is on board. The radio shall be capable of operation from the dredge's main control station. Continuous radio contact shall be maintained between the dredge control room and the inspectors of the beach fill areas as well as the personnel patrolling the pipeline.

2. EXECUTION

2.1 NOTIFICATION OF COAST GUARD
2.1.1 Navigation Aids

Navigation aids located within or near the areas required to be dredged will be removed, if necessary, by the U.S. Coast Guard in advance of dredging operations. The Contractor shall not remove, change the location of, obstruct, willfully damage, make fast to, or interfere with any aid to navigation.

2.1.2 Dredging Aids

The Contractor shall obtain approval from the U.S. Coast Guard for all buoys, dredging aid markers to be placed in the water, and dredging aid markers affixed with a light prior to the installation. Dredging aid markers and lights shall not be colored or placed in a manner that they will obstruct or be confused with navigation aids.

2.2 CHARACTER OF MATERIALS

The materials to be excavated are predominantly shoaled deposits that have formed since the areas were last dredged during the winter 2015/2016 season. Historically the average grain size for maintenance material in Mason Inlet and Creek has been approximately 0.22-0.26 mm with a mix of clean sand and fine shell hash. In addition, debris commonly found abandoned or deposited by storms in a channel – i.e., tires, ropes, roots, pilings, etc. – are to be expected. Removal and disposal of common debris shall be at the contractor’s expense. In situ rock, if encountered, will not be dredged. See SECTION III GEOTECHNICAL DATA.

2.3 DREDGING

2.3.1 Method of Dredging

Only dredging, transport, and placement by a hydraulic pipeline dredge will be allowed under this contract. An ocean certified dredge shall be required for work in the Option A area which lies seaward of the Colregs line, approximately Sta. 4+00 to 0+00 in Mason Inlet.

*The dredge plant shall meet the following minimum size standard:*

A. A minimum 14” inside diameter suction pipe with a minimum 14” inside diameter pump discharge.

B. Proven capacity of the proposed vessel to produce a minimum of 5,000 cy/day under conditions similar to this project, including material type, pipeline length, beach placement, current and weather conditions.

2.3.2 General

All dredging for shall be performed within the limits and depths of the areas shown on the drawings. Existing conditions of the dredging areas and materials to be dredged are represented on the plans and sediment sieve analysis sheets. Dredging shall be performed in a uniform and continuous manner so as to avoid creating multiple holes, valleys, or ridges. The Contractor shall dredge no deeper than the maximum overdepth elevation shown on the plans for the dredging areas. The location of any unsuitable material encountered within the borrow area shall be noted on the Contractor’s daily report. If the Engineer determines the quality of beach fill is being adversely affected, that location shall be avoided in future passes of the dredge. The Contractor shall change the location and depth of dredging within the template limits as directed by the Engineer when necessary to avoid unsuitable material at no additional cost to the County.

2.3.3 Turbidity

Excavation and filling operations shall be done in a manner that will minimize turbidity of the water at the excavation site and at the discharge from the fill placement area. If monitoring shows that turbidity exceeds the level allowed by the project Permits, construction activities shall cease immediately and not resume until corrective measures have been taken and turbidity has returned to acceptable levels. No separate payment will be made for providing and maintaining any required turbidity barriers. All such related cost shall be included in the contract unit prices for Bid Item No. 002 DREDGING AND BEACH FILL and Bid Item No. 005 DREDGING AND
BEACH FILL.

2.3.4 Dredge Template

2.3.4.1 Permitted Depth

The shoaled material shall be removed from within the dredging areas to clear the required bottom grade but not more than the permitted overdepth (2.0'), as shown on the plans.

2.3.4.2 Side Slopes

Side slopes may be formed by box cutting or dredging along the side slope. Material actually removed, within the limits approved by the Engineer, to provide for final side slopes not flatter than that shown on the contract plans, but not in excess of the amount originally lying above this limiting side slope, will be measured in accordance with the provisions contained in SECTION VI MEASUREMENT AND PAYMENT.

2.3.4.3 Excessive Dredging

Excessive dredging below the overdepth limit is a permit violation. Materials taken from beyond the limits as described in subparagraphs “Permitted Depth” and “Side Slopes” above, will be deducted from the total amount dredged as excessive overdepth dredging, or excessive side slope dredging, for which payment will not be made. Nothing herein shall be construed to prevent payment for the removal of shoals performed in accordance with the applicable provisions of the subparagraph “Final Examination and Acceptance” below.

2.3.4.4 Final Examination and Acceptance

As soon as practicable and no later than three (3) days after the completion of each acceptance section, as in the opinion of the Engineer will not be subject to damage by further operations under the contract, such work will be thoroughly examined at the cost and expense of the County by sounding or by sweeping, or both, as determined by the Engineer. Should any shoals, lumps, or other lack of contract depth be disclosed by this examination, the Contractor will be required to remove same by dredging. Dragging to remove shoals shall not be permitted. The Contractor or its authorized representative will be notified when soundings and/or sweepings are to be made and will be permitted to accompany the survey party. When the area is found to be in a satisfactory condition, it will be accepted.

2.3.4.5 Position Monitoring

The Contractor shall use an Electronic Positioning System (EPS) to ensure that the excavation area is limited to the area shown on the plans. The Contractor shall be solely responsible for any penalties or fines, which may arise from over-excavation, or excavation beyond the limits of dredging set forth in the plans.

2.3.5 Protection of Existing Waterways

The Contractor shall conduct its operations in such a manner that material or other debris are not placed outside of dredging limits or otherwise deposited in existing side channels, the AIWW, or other areas being utilized by vessels. The Contractor will be required to change its method of operations as may be required to comply with the above requirements. Should any bottom material or other debris be placed into areas described above as a result of the Contractor’s operations, the same must be promptly removed and properly disposed of at the expense of the Contractor to the satisfaction of the County.

2.4 TRANSPORT OF DREDGED MATERIALS

Material dredged shall be transported to and deposited on the beaches of Figure “8” Island as described in Subsection 2.5 BEACH FILL AND GRADING and as shown on the plans.
2.4.1 Dredge Discharge Pipeline

The Contractor shall plainly mark the pipeline access routes with conspicuous stakes, targets, and/or buoys, to be maintained throughout the contract operations. A tight dredge discharge pipeline shall be maintained to prevent spilling of dredged material or dredged water outside of the beachfill area. During dredging operations, the Contractor shall conduct a minimum of two inspections per day of the pipeline. Dredging shall not be resumed until the necessary pipeline repairs have been completed. The Contractor’s shore crew and pipeline personnel are to quickly notify the dredge should the disposal area effluent discharge exceed water quality standards or pipeline leakage occurs. The Contractor shall inform the Engineer at what time the problems were found and time when action was taken to correct the problems. Plant downtime to make pipeline repairs will be at no added cost to the County or a basis for time extension.

2.4.2 Submerged Pipeline

In the event the Contractor elects to submerge its pipeline, the pipeline shall rest on the bottom, and the top of the submerged pipeline and any anchor securing the submerged pipeline shall be no higher than the required project depth for the channel in which the submerged pipeline is placed. Should the Contractor elect to use a pipeline material, which is buoyant or semi-buoyant, such as PVC pipe, or similar materials, the Contractor shall securely anchor the pipeline to prevent the pipeline from lifting off the bottom under any conditions. The Contractor shall remove all anchors when the submerged pipeline is removed. The location of the entire length of submerged pipeline shall be marked with signs, buoys, flags and lights, conforming to U.S. Coast Guard regulations.

2.4.3 Floating Pipeline

Should the Contractor’s pipeline not rest on the bottom, it will be considered a floating pipeline and shall be visible on the surface and clearly marked. In no case will the Contractor’s pipeline be allowed to fluctuate between the surface and the bottom, or lie partly submerged. Lights shall be installed on the floating pipeline as required under Subsection 1.12 SIGNAL LIGHTS. The lights shall be supported either by buoys or by temporary pilings, provided by the Contractor and approved by the Engineer. Where the pipeline does not cross a navigable channel, the flashing yellow all-around lights shall be spaced not over 200 feet apart, unless closer spacing is required by U.S. Coast Guard personnel, in which case the requirements of the U.S. Coast Guard shall govern, at no additional cost to the County.

2.4.4 Work Area

The Contractor shall inventory all anchors, buoys, and buoy cables deployed in the prosecution of the work. The Contractor shall use this information to account for and recover these items at the completion of the project.

2.5 BEACH FILL AND GRADING

2.5.1 General

All dredged materials shall be transported to and deposited on the beach within the lines, grades, and cross sections shown on the drawings except as may be modified by the provisions of subparagraph b. of subparagraph “Construction” below. Except as specified in subparagraph “Dressing for Payment” below, the Contractor shall maintain and protect the fill in a satisfactory condition at all times until acceptance of the work. Any fill sand which is lost in transit or permitted to flow into the offshore waters or onto the upland from the point the sand is discharged on the beach will not be subject to payment. The fill shall be free of clay lenses, rock or silt pockets. Any such material remaining in the fill shall be removed and disposed of by the Contractor as approved by the Engineer. Any existing signs, buoys or other structures within the work lines shall be protected and/or removed and later replaced by the Contractor as directed. The Contractor shall provide sand ramp walkways across the beach pipeline at intervals as directed by the Engineer, and to correspond to the locations of existing beach access walkways as directed by the Engineer.
2.5.2 Fill Template

The fill sections are shown on the plans. The berm will be constructed to an elevation of +5.0 NAVD88. The width of the berm will be variable, but will average approximately 125 feet. The berm slopes will be 1-foot vertical to 25-feet horizontal. The final contract fill area and berm width will be determined by the Engineer at the time of construction based upon the prevailing beach conditions and the contractors proposed construction schedule.

2.5.3 Construction

a. Prior to placement of fill, the Contractor shall remove from the site of the work all snags, driftwood, and similar debris lying within the footprint of the beach fill section. Derelict sand fencing and other non-vegetative debris lying within the beach fill template shall be removed by the Contractor prior to placement of fill. All materials removed shall be disposed of in areas provided by and at the expense of the Contractor and approved by the Engineer. Grading and other construction equipment will not be permitted outside the easement lines shown on the drawings except for designated ingress and egress to and from the site.

b. The dredged material shall be placed and brought to rest on the beach to the lines, grades, and cross sections indicated on the drawings, unless otherwise provided for herein or directed by the Engineer. Pipe shall be placed parallel to shore and landward as far as possible without compromising the dune system or existing vegetation. Temporary storage of pipe on the beach shall be kept to a minimum. The beach is subject to changes and the elevations on the beach at the time the work is done may vary from the elevations shown on the drawings. The Engineer reserves the right to vary the width and grade of the berm from the lines and grades shown on the plans in order to establish a uniform beach for the entire length of the project. The beach fill cross sections shown on the drawings are for the purpose of estimating the theoretical amount of fill needed and will be used by the Engineer in making any change in the lines and grades. The Contractor will not be required to dress the fill below the mean high water to the slopes shown but will be required to do the dressing specified in subparagraph “Dressing for Payment” and “Dressing for Final Acceptance” below.

c. Construction staking on the beach shall be made of steel pipe or other material that can and shall be removed intact after filling as verified during Acceptance Section inspections. The Contractor shall inventory all the construction staking used on the project in a manner acceptable to the Engineer.

d. The Contractor shall maintain a tight discharge pipeline for the pumpout operations at all times. The joints shall be so constructed as to preclude spillage and leakage. The submerged pipeline shall be visually inspected by the Contractor daily during period of active pumpout operations for signs of slicks, plumes, boils, or other surface anomalies that would indicate leaks, seepage, ruptures, or failures. All occurrences shall be indicated in the Contractor’s daily report. The development of a leak shall be promptly repaired or the pumpout operations shall be shut down until complete repair has been made to the satisfaction of the Engineer. Any areas of seepage, leakage, or failure shall be reported to the Engineer as soon as possible. The Contractor shall be required to maintain signs, barricades, warning signals, and flagmen to ensure public safety in the vicinity of the pipe discharge. Any damages to private or public property resulting from the Contractor’s operations shall be repaired by the Contractor at his expense.

e. Grade stakes and any other stakes for any purpose shall be made of steel pipe that can and will be removed intact after filling to cross sections accepted by or as directed by the Engineer. All stakes shall have sufficient length above grade so they may not be accidentally covered by fill. The Contractor shall consecutively number each piece of pipe used for grade stakes, shall clearly mark that number upon the pipe, and shall record the location of each numbered pipe in a grade stake log. The removal of each numbered pipe shall be recorded in the grade stake log at the time of the pipe/stake removal. At the request of the Engineer, all of the grade stake pipes shall be displayed after their removal to demonstrate those pipes that have been removed. All pipes used for grade stakes placed within the limits of the beach fill work shall be numbered and shall be recorded in the log. It is the Contractor’s
responsibility to track, locate, and completely remove all grade stakes in their entirety to the satisfaction of the Engineer.

f. Temporary longitudinal dikes and spreader and/or pocket pipe shall be used to prevent gullying and erosion of the beach and fill and to retain the fill on the beach and within the limits of the fill cross section. As the work progresses, dikes or mounds shall be constructed along the beach as necessary to direct the pipeline discharge longitudinally along the beach to avoid transverse gullying directly from the discharge point to the ocean, and to build the new berm to design grade. The Contractor will not be held responsible for erosion caused by waves after the beach fill has been satisfactorily placed and accepted. No undrained pockets shall be left in any fill during or upon completion of the work. The Contractor shall not permit wastewater to flow landward of the fill section or water to pond between the fill and upland.

g. Mechanical operations may be needed to place material to the required lines and grades. The Contractor shall address the placement methods(s) in the Work Plan. Stockpiling, additional longitudinal dikes, and/or other special handling may be needed. It is the Contractor’s responsibility to place material to the specified lines and grades within the fill cross section.

h. The Contractor shall take care not to damage any existing private or public structures, specifically including, but not limited to piers, crosswalks, walkways, or sand fencing. Prior to construction, the Contractor and Engineer shall survey the entire beachfill area. The Contractor shall submit to the Engineer a “Structures Protection Plan” prior to the placement of beachfill. Approval of the plan will not relieve the Contractor of responsibility of damages to private or public property. Any damages assessed as a result of any of the above items shall be at the Contractor’s expense.

2.5.4 Dressing for Payment

Immediately following placement of the new beach fill the Contractor shall grade, level and dress the beach fill to meet the required elevations and dimensions indicated on the drawings. The dressing for payment shall include the removal of humps, depressions, undrained pockets, excavated material at locations of swales for drainage culverts, and vehicle access ramps, etc., prior to final pay survey. The Contractor will not be held responsible for erosion caused by waves after the beach fill has been satisfactorily placed except that the Contractor will be required to perform the final dressing. No undrained pockets shall be left in any fill during or upon completion of the work.

2.5.5 Dressing for Final Acceptance

Immediately upon the completion of beach fill placement and removal of equipment and materials from the beach fill area, the final dressing shall be accomplished by the Contractor for final acceptance. This final dressing is a requirement as part of the post-construction cleanup. The bank caused by wave forces shall be graded down to a slope not steeper than 1 vertical to 15 horizontal. Beach berm and slopes shall be final graded and dressed so that no material resides above the overfill tolerance landward of the elevation of MHW. Grade stakes shall be removed intact and any excavation required to remove the stakes shall be backfilled.

2.5.6 Tolerances

Final grade shall be within a tolerance of plus five-tenths (0.5) of a foot above the beach fill grade line as shown in the contract drawings. Tolerance shall extend across entire berm and slope to intersection of slope and pre-construction surveyed condition. Below the mean high waterline (+1.4’ NAVD 88), the fill material will be allowed to assume its natural slope resulting from the effects of wave and water level conditions. Any material placed outside the prescribed tolerances may be left in place at the discretion of the Contracting Officer or his/her designated representative; however, the Contractor will not be paid for the material placed outside the prescribed tolerances for the dune, storm berm, berm, landward slope and assumed seaward slope. The Contractor shall be required to redistribute and/or reshape any material placed outside
the prescribed tolerances to conform to the requirements of the contract. Berm width will vary as shown on the drawings and as directed by the Engineer. Slope shaping shall be accomplished by grading fill into water or as directed by the Engineer.

2.5.7 Misplaced Materials

If any material is deposited other than in places designated or approved, the Contractor may be required to remove such misplaced material and redeposit it where directed at his expense. Misplaced materials are meant to include materials lost due to pipeline leaks, short pumping, exceeding vertical tolerances, or placement north or south of the defined beachfill area. Excessive materials placed in the beach slope beyond the fill template may be considered misplaced materials and deducted from the final pay quantity, in accordance with SECTION VI.

2.5.8 Work Area

The construction, operational, and borrow area limits available to the Contractor for accomplishing the work are shown on the drawings. At the fill site, the Contractor may only operate within the work areas shown on the drawings. The Contractor shall exclude the public from the work areas in the immediate vicinity of his dredging, transporting, and disposal operations. The Contractor shall prevent public access to the discharge end of his pipeline. The Contractor shall erect, maintain, and move as necessary, a restrictive barrier around the discharge of the hydraulic pipeline used for beach disposal; i.e., similar or equal to orange polypropylene geogrid safety fencing. The barrier shall be constructed so as to prevent the public from approaching the discharge from any direction closer than 40 feet. The Contractor shall post signs in a conspicuous manner stating “DANGER - HIGH PRESSURE DISCHARGE FROM DREDGE”. Enforcement shall be the Contractor's responsibility at no additional cost to the County. The enforcement shall be coordinated with local enforcement agencies, and will be subject to approval of the Engineer. Procurement of additional access routes for ingress and egress to the construction area shall be obtained by and at the expense of the Contractor and shall be approved by the Engineer. Additionally, the Contractor shall place a safety person at the discharge end of the disposal pipeline. The safety person shall be present at all times during discharge operations and will maintain radio communication between the dredge and the disposal operation.

2.5.9 Construction Access

Procurement of additional access routes for ingress and egress to the construction area shall be obtained by and at the expense of the Contractor and shall be approved by the Engineer. At all access sites to be utilized, the Contractor shall:

a. Photo-document the condition of the access location prior to disrupting the site.

b. Replace any fencing, signage or curbing disturbed by the Contractor's activities; and,

c. Restore and revegetate the access route with native dune plants subject to the approval of the Engineer. Revegetation of access and staging areas shall be as directed by the Engineer with species and diversity equivalent to preconstruction conditions. Revegetation shall include a survival warranty of 90 percent of the plant material for 90 days. Vegetation shall be installed with fertilization and initial irrigation, at no additional expense to the County. Shrubs and trees shall be replaced to preconstruction conditions per the requirements of SECTION X ENVIRONMENTAL PROTECTION.

2.6 NOISE CONTROL

2.6.1 Hauling and Excavating Equipment Other Than Dredges and Booster Pumps

All hauling and excavating equipment, other than dredges and booster pumps, used on this work shall be equipped with satisfactory mufflers or other noise abatement devices. The Contractor shall conduct his operations so as to comply with all Federal, State, and local laws and County ordinances pertaining to noise.
2.6.1.1 Dredges, Bulk Carriers, and Booster Pumps

Dredges and booster pumps used on this work shall be equipped with satisfactory mufflers or other sound abatement devices to reduce engine noise. The Contractor shall conduct his operations so as to comply with all Federal, State, and local laws pertaining to noise. The use of horns, the use of whistle signals, and handling of dredge pipelines shall be held to the minimum necessary in order to insure as quiet an operation as possible.

2.7 QUALITY CONTROL

The Contractor shall establish and maintain quality control for operations under this section to assure compliance with contract requirements and maintain records of his quality control for materials, equipment, and construction operations, including but not limited to the following:

2.7.1 Preparatory Inspection

(To be conducted prior to commencing work.)

a. Check location of dredging areas, and conditions of beach areas to be filled.

b. Discuss plan of action for dredging, transporting, and placing fill on beach.

c. See that all equipment is approved and is in satisfactory working condition.

d. Check safety requirements and, particularly, public safety.

e. Check the beach site for structures that could be susceptible to damage or which could have further damage caused by the Contractor's activity.

2.7.2 Initial Inspections

(To be conducted after a representative sample of the work is complete.)

a. Check for proper lines, grades, and elevations.

b. See that diking and fill discharge is satisfactory.

c. Check grades and slopes of fill placement.

d. Check finished area for proper dressing and elimination of undrained pockets and abrupt humps.

e. Check any adjacent structures to search for damage by Contractor's equipment.

2.7.3 Follow-up Inspection

(To be conducted daily to assure compliance with results of initial inspection.)

a. Check items mentioned in preparatory and initial inspection.

b. Damage or defects.

A copy of these records, as well as results of corrective action taken, shall be furnished to the County as directed by the Engineer.

2.8 QUALITY CONTROL FOR BEACH PLACEMENT OF SAND

The Contractor shall perform construction observation to reasonably assure that the work will be in conformance with the required contract and permit conditions. Construction observation shall be performed 7 days a week, 24 hours a day. Daily reports will describe the sediment placed.
The Engineer will make frequent daily visual inspections of the material being placed on the beach during periods of active construction. The material will be visually compared to the acceptable sand criteria. If determined necessary by the Engineer, sampling and quantitative assessments of the sand will be conducted by the Engineer for grain size, shell content, and moist Munsell color, in compliance with the Permits.

The geotechnical investigations conducted for the design of this project did not indicate any unsuitable materials within the dredge templates. Efforts should be made to avoid dredging material that is obviously unsuitable for beach placement. Suitable beach fill shall be defined in accordance with State sediment criteria pursuant to 15A NCAC 07H.0312 Technical Standards for Beach Fill Projects, which may be found at: http://reports.oah.state.nc.us/ncac/title%2015a%20environmental%20quality/chapter%2007b%20coastal%20management/subchapter%20h/15a%20ncac%2007h%20.0312.pdf.

In the event that unsuitable material is delivered to the beach work may be halted or the dredge may be required to be relocated within the dredging area until a suitable plan is implemented. The Engineer will then determine if remediation is necessary. Remediation efforts may include beach tilling or blending of unacceptable beach fill material with adjacent material or moving the unacceptable material seaward of the mean high water line. Post sediment testing may be conducted following any remediation effort.

Historically, shell has been found in limited amounts within the dredging area. The Contractor shall grade the beachfill area to disperse shell within the fill template such that the shell percentage at any given point is no greater than 15%.

2.9 INSPECTION

2.9.1 Engineer and Inspectors

The Engineer shall be notified prior to the establishment of horizontal control work (baseline layout, ranges, station flags, shore-based control for EPS/RPS, etc.) and vertical control work (tide staff(s), upland cross sections, construction elevations top/invert, maximum/minimum elevations of dredged materials within disposal area(s), etc.), but the presence or absence of the Engineer or Inspectors shall not relieve the Contractor of his responsibility for proper execution of the work in accordance with the specifications. The Contractor will be required:

a. To furnish, on the request of the Engineer or Inspectors, the use of such boats, boatmen, laborers, and material forming a part of the ordinary and usual equipment and crew of the dredging plant as may be reasonably necessary in inspecting and supervising the work.

b. To furnish, on the request of the Engineer or Inspectors, suitable transportation from all points on shore designated by the Engineer to and from the various pieces of plant, and to and from the beach placement area.

2.9.2 Failure to Comply

In conjunction with the Clause INSPECTION OF CONSTRUCTION, should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Engineer and the cost thereof will be deducted from any amounts due or to become due the Contractor.

2.10 FINAL ACCEPTANCE

Prior to final acceptance, each of the following requirements shall be satisfied:

- All punch-list items are to be corrected or completed.
- As-built drawings redlined, submitted and approved by the Engineer.
- All other submittals as specified in Subsection 1.3 SUBMITTALS.
- All clean up and demobilization completed.
- Final inspection with Engineer conducted.
APPENDICES

A. BID FORMS
B. AGREEMENT
C. SEDIMENT ANALYSES
D. PERMITS
E. DRAWINGS
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Appendix A: Bid Forms
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BID PROPOSAL FORM TO
NEW HANOVER COUNTY,
NORTH CAROLINA

Proposal of Bidder: ___________________________________________

Business Address: ___________________________________________________________

Project Name: Mason Inlet Maintenance Project 2019/2020

To: New Hanover County
    Engineering Department
    Attn: Layton Bedsole, Shore Protection Coordinator
    230 Government Center Drive, Suite 160
    Wilmington, NC 28403

(1) The undersigned, as Bidder, declares that the only person or parties interested in this Proposal as principals are those named herein, that this Proposal is made without collusion with any other person, firm or corporation; that he/she has carefully examined the location of the proposed forms of Agreement and Bonds, and the Contract Plans and Specifications for the below designated work, and all other documents referred to or mentioned in the Contract Documents and Contract Plans.

(2) The Bidder proposes, and agrees, if this Proposal is accepted, that Bidder shall contract with the County, in the form of the copy of the Agreement included in these Contract Documents and Specifications, to provide all necessary machinery, tools, apparatus, and other means of construction, including utility transportation, security, and safety-related services, necessary to do all the Work; and that he/she shall furnish all the materials and equipment specified or referred to in the Contract Documents and Specifications in the manner and time herein prescribed and according to the requirements of the County as therein set forth.

(3) The Bidder declares that he/she has carefully examined the site of the Work and that from Bidder's own investigations, has satisfied him/herself as to the nature and location of the Work, the character, quality, and quantity of materials, and the kind and extent of equipment and other facilities needed for the performance of the Work, the general and local conditions and all difficulties to be encountered, all other items which may in any way, affect the Work or Bidder's performance.
The Bidder declares he/she has examined the Contract Documents and Specifications and the following addenda:

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<th>Number</th>
<th>Date</th>
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Receipt of all of which, including copies of the Notice to Bidders and the Instructions to Bidders, Bidder hereby acknowledges.

The Bidder certifies that addendum(s) number(s) __________ through _______ for this Contract have been received and that changes covered by the addendum(s) have been taken into account with the total bid price.

The Bidder declares that he/she has carefully examined, and fully understands, all the component parts of the Contract Documents and Specifications, and agrees that he/he shall execute the Contract, furnish the required Payment Bond and Performance Bond, and completely perform the Work in strict accordance with the terms of the Contract and the Contract Documents and Specifications therein referred to for the following prices, to wit:

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### Schedule for Bid Prices

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<tr>
<th>Item No.</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Unit Price</th>
<th>Total Based on Estimated Quantity</th>
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<td>001</td>
<td>Mobilization &amp; Demobilization</td>
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<td>L.S.</td>
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<td>002</td>
<td>Dredging and Beach Fill</td>
<td>375,000</td>
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**Total Base Bid** (Items 1, 2, & 3): $__________________________

**Option A: Ocean Certified Dredging (Sta. 0+00 – 4+00)**

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<th>Item No.</th>
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<th>Unit</th>
<th>Unit Price</th>
<th>Total Based on Estimated Quantity</th>
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**Total Option A Bid** (Items 4 & 5): $__________________________

Available Date for Commencement of Work: ____________________________________________

__________________________________________
(Affiant)

State of Incorporation (if corporation)

__________________________________________
Official Address (if partnership)

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## EQUIPMENT SCHEDULE
**FORM TO BE SUBMITTED WITH BID**

Prospective Bidders are requested to state below the number and types of equipment to be used for the Project. This schedule shall include equipment owned and/or operated by the Contractor and by any Subcontractor responsible for more than 10% of the total work. Indicate if the equipment is owned or operated by the Bidder or Subcontractor.

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<th>ITEM</th>
<th>NUMBER/NAME</th>
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<th>PIPE DIAMETER</th>
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RELEVANT PROJECT EXPERIENCE
FORM TO BE SUBMITTED WITH BID

Prospective Bidders are requested to list below any beach nourishment or inlet dredging projects completed in the last (5) five years with equipment used.

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<thead>
<tr>
<th>PROJECT NAME</th>
<th>OWNER</th>
<th>SIZE (CY)</th>
<th>DURATION DAYS</th>
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FORM OF AFFIDAVIT
WHERE BIDDER IS A CORPORATION
(COMPLETE EITHER SHEET 3 OR SHEET 4, AS APPLICABLE)

STATE OF ______________________
COUNTY OF ____________________
__________________________________________, being duly sworn deposes and says: I am the
_______________________________________ of _____________________________, the
_______________________________________ corporation described in and which executed the foregoing Proposal; that
I have been duly authorized and did execute the Proposal Pursuant to the authorization, and that the
matters stated therein are true.

BIDDER:

______________________________________
Print or Type Name of Entity

By: ___________________________________
Signature and Seal

______________________________________
Print or Type Name

______________________________________
Date

The foregoing instrument was acknowledged before me this ________________________(date) by
_______________________________________ (name of agent or officer), of _____________________________ (Corporate name), a _____________________________ (state of incorporation) corporation, on behalf of the corporation. He/She is personally known to me or has produced _____________________________ (ID type) as identification and who did (did not) take an oath.

________________________________________
(Signature of person taking acknowledgement)

________________________________________
(Name of acknowledgement, print, type, or stamp)

________________________________________
(Title or Rank)

________________________________________
(Serial number, if any)
WHERE BIDDER IS A PARTNERSHIP
(COMPLETE EITHER SHEET 3 OR SHEET 4, AS APPLICABLE)

STATE OF ______________________
COUNTY OF ____________________

_____________________________________, being duly sworn deposes and says: I am general/partner in ______________________________ (entity name) a Limited/General Partnership, described in and which executed the foregoing Proposal; that I have been duly authorized and did execute the Proposal Pursuant to the authorization, and that the matters stated therein are true.

BIDDER:

______________________________________
Print or Type Name of Entity

By: ____________________________________
Signature and Seal

______________________________________
Print or Type Name

______________________________________
Date

The foregoing instrument was acknowledged before me this __________________(date) by __________________________ (name of agent or officer), of __________________________ (entity name), on behalf of the partnership. He/She is personally known to me or has produced ______________________ (ID type) as identification and who did (did not) take an oath.

________________________________________
(Signature of person taking acknowledgement)

________________________________________
(Name of acknowledgement, print, type, or stamp)

______________________________________
(Title or Rank)

______________________________________
(Serial number, if any)
NONCOLLUSION AFFIDAVIT

STATE OF __________________________
COUNTY OF __________________________

______________________, being first duly sworn, deposes and says that he/she is (Sole owner, a limited/general (strike one) partner, president, etc.) of, __________________________________, the party making the foregoing Proposal or BID, that such BID is genuine and not collusive or sham; that said BIDDER has not colluded, conspired, connived, or agreed, directly or indirectly, with any BIDDER or person, to put in a sham BID, or that such other person shall refrain from bidding, and has not in any manner, directly or indirectly sought by agreement or collusion, or communication or conference, with any person, to fix the BID Price of affiant or any other BIDDER, or to fix any overhead, profit or cost element of said BID Price, or of that of any other BIDDER, or to secure any advantage against COUNTY any person interested in the proposed Contract; and that all statements in said Proposal or BID are true; and further, that such BIDDER has not, directly or indirectly submitted this BID the contents thereof, or divulged information or date relative thereto to any association or to any member or agent thereof.

_______________________________  __________________________
(Affiant)  (FOR A CORPORATION)

The foregoing instrument was acknowledged before me this ______________ (date) by ____________________________ (title of officer or agent) of ___________________________ (name of corporation acknowledging), a __________________________________ (state or place of incorporation) corporation, on behalf of the corporation. He/she is personally known to me or has produced ____________________________ (ID type) as identification and who did (did not) take an oath.

_______________________________   __________________________
(Signature of person taking acknowledgement)  (Name of acknowledgement, print, type, or stamp)

___________________________   __________________________
(Title or Rank)  (Serial number, if any)
FORM OF NONCOLLUSION AFFIDAVIT

(FOR A PARTNERSHIP)

The foregoing instrument was acknowledged before me this ______________________ (date) by
__________________________________________ (name of agent or officer), of
__________________________________________ (entity name), on behalf of the partnership. He/She is
personally known to me or has produced ______________________ (ID type) as identification and
who did (did not) take an oath.

________________________________________
(Signature of person taking acknowledgement)

________________________________________
(Name of acknowledgement, print, type, or stamp)

________________________________________
(Title or Rank)

________________________________________
(Serial number, if any)

(FOR ATTORNEY IN FACT)

The foregoing instrument was acknowledged before me this ______________________ (date) by
__________________________________________ (name of attorney in fact), of
__________________________________________ (entity name), on behalf of the partnership. He/She is
personally known to me or has produced ______________________ (ID type) as identification and
who did (did not) take an oath.

________________________________________
(Signature of person taking acknowledgement)

________________________________________
(Name of acknowledgement, print, type, or stamp)

________________________________________
(Title or Rank)

________________________________________
(Serial number, if any)
This sworn statement is submitted to New Hanover County, North Carolina.

By ________________________________________________________________
(individual’s name and title)

By ________________________________________________________________
(entity’s name submitting statement)

whose business address is,

________________________________________________________________

________________________________________________________________

________________________________________________________________

________________________________________________________________

________________________________________________________________

and (if applicable) its Federal Employer Identification Number (FEIN) is ____________________

(If the entity has no FEIN, include Social Security Number of the individual signing this
sworn statement: _____________________________________________________)

2. I understand that a "public entity crime" as defined in the North Carolina Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in the North Carolina Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, no jury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that an "affiliate" as defined in North Carolina, means:
   a. A predecessor or successor of a person convicted of a public entity crime; or
   b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm’s length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in North Carolina during the preceding 36 months shall be considered an affiliate.
5. I understand that a "person" as defined in North Carolina Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement, which I have marked below, is true in relation to the entity submitting this sworn statement. [indicate which statement applies]

- ______ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to (date).

- ______ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to (date).

- ______ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been certified and convicted of a public entity crime subsequent to (date). However, there has been a subsequent proceeding before a Hearing Officer of the State of North Carolina. Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. [attach a copy of the final order]

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN THE NORTH CAROLINA STATUTES FOR A CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

________________________________________
(Signature)

Sworn to and subscribed before me this ______day of _____________, 2019.

Personally known ____________________________

OR Produced identification _________________ Notary Public – State of _______________________

My Commission Expires ______________________
(type of identification)

______________________________
(printed typed or stamped commission name of Notary Public)
STATEMENT OF LICENSE CERTIFICATE

EACH CONTRACTOR SHALL FILL IN AND SIGN THE FOLLOWING STATEMENT

This is to certify that ____________________________ has satisfactorily met the certification requirements of Chapter 87 of the North Carolina General Statutes and the rules and regulations incorporated in Title 21 Chapter 12 of the North Carolina Administrative Code. The Contractor’s certificate number and date of certification shall appear on the sealed envelope containing the bid package. Failure to include the certification will result in the bid being deemed non-responsive.

______________________________ was issued Certificate No. __________
on ________________, by the Industry Licensing Board.

BIDDER:

________________________________________
Print or Type Company Name

By: ___________________________________
Signature

________________________________________
Print or Type Name

________________________________________
Print or Type Title

________________________________________
Date
FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS THAT ________________________________ as principal, and ________________________________ as surety, who is duly licensed to act as surety in North Carolina, are held and firmly bound unto New Hanover County as obligee, in the penal sum of ___________________________ DOLLARS, lawful money of the United States of America, for the payment of which, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Signed, sealed and dated this ___ day of ________________, 2019

WHEREAS, the said principal is herewith submitting proposal for and the principal desires to file this bid bond in lieu of making the cash deposit as required by G.S. 143-129.

NOW, THEREFORE, THE CONDITION OF THE ABOVE OBLIGATION is such, that if the principal shall be awarded the contract for which the bid is submitted and shall execute the contract and give bond for the faithful performance thereof within ten days after the award of same to the principal, then this obligation shall be null and void; but if the principal fails to so execute such contract and give performance bond as required by G.S. 143-129, the surety shall, upon demand, forthwith pay to the obligee the amount set forth in the first paragraph hereof. Provided further, that the bid may be withdrawn as provided by G.S. 143-129.1

___________________________(SEAL)

___________________________(SEAL)

___________________________(SEAL)

___________________________(SEAL)
Appendix B: Agreement
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NORTH CAROLINA
NEW HANOVER COUNTY

AGREEMENT

MASON INLET MAINTENANCE PROJECT 2019/2020

THIS CONTRACT made and entered into this _____ day of ____________, 2019 by and between NEW HANOVER COUNTY a political subdivision of the State of North Carolina, hereinafter referred to as "County"; and Contractor, a State corporation, hereinafter referred to as "Contractor."

WITNESSETH:

That Contractor, for the consideration hereinafter fully set out, hereby agrees with County as follows:

DEFINITIONS

Addenda. Written or graphic instruments issued prior to the opening of bids that clarify, correct, or change the Bidding Requirements or the Contract Documents.

Agreement. The written instrument evidencing the covenant between County and the Contractor covering the Work.

Application for Payment. The form acceptable to County which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

Bidding Documents. The bidding requirements and the proposed Contract Documents (including all addenda issued prior to receipt of bids).

Bidding Requirements. The advertisement or invitation to bid, instructions to bidders, bid security form, if any, and the bid form with any supplements.

Bonds. Bid performance and payment bonds and other instruments of security.

Change Order. A document recommended by County which is signed by Contractor authorizing an addition, deletion, or revision in the Work or an adjustment in the contract price or the contract time, issued on or after the effective date of the Contract.

Claim. A demand or assertion by County or Contractor seeking an adjustment of Contract Price or Contract Time, or both, or other relief with respect to the terms of the contract. A demand for money or services by a third party is not a claim.

Contract. The entire and integrated written contract between County and Contractor concerning the Work. The contract supersedes prior negotiations, representations, or
agreements, whether written or oral.

**Contract Documents.** The Contract Documents establish the rights and obligations of the parties and include the Contract, addenda (pertaining to the Contract Documents), contractor’s bid (including documentation accompanying the bid and any post-bid documentation submitted prior to the notice of award) when attached as an exhibit to the Contract, the Notice to Proceed, the bonds, these general terms and conditions, the supplementary terms and conditions (if any), the specifications and the drawings as the same are more specifically identified in the Contract, together with all written amendments, change orders, and field orders written issued on or after the effective date of the Contract. Shop Drawings, Product Data, Samples, and other submittals from Contractor do not constitute Contract Documents. Their purpose is merely to demonstrate the manner in which Contractor intends to implement any work in conformance with information received from the Contract Documents.

**Contract Price.** The moneys payable by County to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Contract (subject to the provisions relating to unit price work, if applicable).

**Contract Time.** The number of calendar days or the dates stated in the Contract to: (i) achieve Substantial Completion; and (ii) complete the work so that it is ready for final payment pursuant to written recommendation of final payment.

**Contractor.** The individual or business entity with whom County has entered into a Contract.

**County.** This term shall be construed to mean, when referencing an individual, the New Hanover County Shore Protection Coordinator, or his designee, or the New Hanover County Engineer.

**Drawings.** That part of the Contract Documents prepared or approved by County that graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop drawings and other Contractor submittals are not drawings as defined herein.

**Field Order.** A written order issued by County that requires minor changes in the Work by which does not involve a change in the Contract Price or the Contract Time.

**Final Completion.** The date when all the Work outstanding at Substantial Completion (punch list or defects list) has been completed.

**Liens.** Charges, security interests, or encumbrances upon project funds, real property, or personal property.

**Notice to Proceed.** A written notice given by County to Contractor fixing the date on which the Contract Time (including milestones, if applicable) will commence to run and
on which Contractor shall start to perform the Work under the Contract Documents.

**Project.** The total construction of and the Work to be performed under the Contract Documents.

**Samples.** Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

**Schedule of Values.** A listing of elements, systems, items, or other subdivisions of the Work, establishing a value for each, the total of which equals the contract sum. The schedule of values is used for establishing the cash flow of a project.

**Shop Drawings.** All drawings, diagrams, illustrations, schedules, or other data or information that are specifically prepared or assembled by Contractor to illustrate some portion of the Work.

**Site.** Lands or areas indicated in the Contract Documents as being furnished by County upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by County which are designated for the use of Contractor.

**Specifications.** That part of the Contract Documents consisting of written technical descriptions of materials, equipment, systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.

**Stoppage.** Any willful suspension of the Work on the Project by Contractor for an uninterrupted period of seven (7) business days for any reason not requested by County and not caused by conditions created by natural phenomena or acts of God.

**Subcontractor.** An individual or entity having a direct contract with Contractor or with any other subcontractor for the performance of a part of the Work at the site.

**Substantial Completion.** The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of County, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to substantial completion thereof. Substantial Completion shall be achieved at a minimum dredged volume of 350,000 cubic yards.

**Unit Price Work.** Work to be paid for based on unit prices.

**The Work.** The entire completed construction or the various separately identifiable parts thereof required to be provided by the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and
equipment into such construction, all as required by the Contract Documents.

**ARTICLE I**  
**GENERAL PROVISIONS**

1.1 **Performance.** Contractor shall furnish all labor, materials and equipment and shall perform all Work as defined herein in the manner and form as provided by the specifications and Contract Documents, which are made a part hereof as if fully contained herein to the extent not inconsistent with this Agreement: Addenda, Instructions to Bidders, Contract Provisions, Technical Specifications, Appendices, and Drawings of “Mason Inlet Maintenance Project 2019/2020”.

1.2 **No Privity with Others.** Nothing contained in this Contract shall create, or be interpreted to create, privity, or any other contractual agreement between County and any person or entity other than Contractor.

1.3 **Successors and Assigns.** County and Contractor bind themselves, their successors, assigns, and legal representatives to the other party hereto and to successors, assigns and legal representatives of such other party with respect to covenants, agreements, and obligations contained in this Contract. Contractor shall not assign this Contract without written consent of County and any surety to this Contract.

1.4 **Continuing Duty.** Contractor shall have a continuing duty to read, carefully examine, and compare each of the Contract Documents, the Shop Drawings and the Project Data and shall provide written notice to County of any inconsistency, ambiguity, error, or omission which Contractor may discover with respect to these documents before proceeding with the Work. The issuance or the express or implied approval by County of the Contract Documents, Shop Drawings, Project Data, or Samples shall not relieve Contractor of its continuing duties imposed hereby, nor shall any approval be evidence of Contractor’s compliance with this contract. **COUNTY MAKES NO REPRESENTATION OR WARRANTY OF ANY NATURE WHATSOEVER TO CONTRACTOR CONCERNING THE ACCURACY OR SUFFICIENCY OF SUCH DOCUMENTS.** By the execution of the Contract, Contractor acknowledges and represents that it has received, reviewed, and carefully examined such documents, has found them to be complete, accurate, adequate, consistent, coordinated and sufficient to perform the Work, and that Contractor has not, does not, and will not rely upon any representation or warranties by County concerning such documents as no such representation or warranties have been or are hereby made.

1.5 Neither the organization of any of the Contract Documents into divisions, sections, paragraphs, articles, (or other categories), nor the organization or arrangement of the design, shall control Contractor in determining the scope of the Work to be performed.
1.6 Ownership of Contract Documents. The Contract Documents shall remain the property of County. Contractor shall have the right to keep one record set of the Contract Documents upon completion of the Project; provided, however, that in no event shall Contractor use, or permit to be used, any Contract Documents on other projects without County’s prior written authorization.

1.7 The Work. Contractor shall perform all of the work required, implied, or reasonably inferable from this Contract.

1.8 Independent Contractor. It is mutually understood and agreed that Contractor is an independent contractor and not an agent of County, and as such, Contractor, its agents and employees shall not be entitled to any County employment benefits, such as, but not limited to, vacation, sick leave, insurance, worker's compensation, pension, or retirement benefits.

ARTICLE II
TIME AND LIQUIDATED DAMAGES

2.1 Contract Time. Contractor shall commence the Work upon receipt of a Notice to Proceed and shall achieve Substantial Completion of the Work no later than March 31, 2020 or the last day allowed by state and federal regulatory agencies for the winter 2019/2020 dredging season, whichever is later.

2.2 Substantial Completion Liquidated Damages. Contractor shall pay County the sum of One Thousand Five Hundred ($1,500) Dollars per day for each and every calendar day of unexcused delay in achieving Substantial Completion. Any sums due and payable hereunder by Contractor shall be payable, not as a penalty, but as liquidated damages representing an estimate of delay damages likely to be sustained by County, estimated at or before the date of executing this Contract. When County reasonably believes that Substantial Completion will be inexcusably delayed, County shall be entitled to withhold from any amounts due Contractor an amount determined by County to be adequate to recover liquidated damages attributable to such delays. If or when Contractor remedies the delay in achieving Substantial Completion, or any part thereof, for which County has withheld payment, County shall promptly release to Contractor all or a portion of those funds withheld as liquidated damages.

2.3 Term of Contract. Contractor shall commence the Work upon Notice to Proceed. Final Completion, including any punch list items, shall be achieved no later than March 31, 2020 or the last day allowed by state and federal regulatory agencies for the winter 2019/2020 dredging season, whichever is later.
ARTICLE III
CONTRACT CHANGES

3.1 Changes Permitted. Changes in the Work within the general scope of this Contract, consisting of additions, deletions, revisions, or any combination thereof, may be ordered by Change Order or Field Order without invalidating the Contract.

3.2 Changes in the Work shall be performed under applicable provisions of this Contract, and Contractor shall proceed promptly with such changes.

3.3 Changes in the Contract Price. Any change in the Contract Price resulting from a Change Order shall be determined as follows: (a) by mutual agreement between County and Contractor as evidenced by (1) the change in the Contract Price, together with any conditions or requirements related thereto, being initialed by both parties and (2) Contractor's execution of the Change Order.

3.4 Unit Price. If unit prices are provided in the Contract, and if the quantities contemplated are so changed in a proposed Change Order that application of such unit prices to the quantities of work proposed would cause substantial inequity to County or to Contractor, the applicable unit prices shall be equitably adjusted.

3.5 Effect of Executed Change Order. The execution of a Change Order by Contractor shall constitute conclusive evidence of Contractor's agreement to the ordered changes in the Work, the Contract Price, and the Contract Time. Contractor, by executing the Change Order, waives and forever releases any claim against County for additional time or compensation for matters relating to, arising out of, or resulting from the Work included within or affected by the executed Change Order.

3.6 Notification of Surety. Contractor shall provide surety bonds whereby the Surety waives notice of any change, including changes of time, to the Contract.

ARTICLE IV
CONTRACT PRICE AND COMPLETION

4.1 The Contract Price. County shall pay, and Contractor shall accept, as full and complete payment for all of the Work required herein, _______ Dollars. The sum shall constitute the maximum Contract Price, which shall not be modified except by Change Order.
### Schedule of Prices

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Estimated Quantity</th>
<th>Unit Price</th>
<th>Total Based On Estimated Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Mobilization &amp; Demobilization</td>
<td>1</td>
<td>L.S.</td>
<td>$</td>
</tr>
<tr>
<td>002</td>
<td>Dredging and Beach Fill</td>
<td>375,000</td>
<td>C.Y.</td>
<td>$____</td>
</tr>
<tr>
<td>003</td>
<td>Payment &amp; Performance Bonds</td>
<td>1</td>
<td>L.S.</td>
<td>$</td>
</tr>
</tbody>
</table>

**Base Bid: Mason Inlet & Creek, AIWW**

**Base Bid Total (Items 1,2,&3):** $____________

**Option A: Ocean Certified Dredging (Sta. 0+00 – 4+00)**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Description</th>
<th>Estimated Quantity</th>
<th>Unit Price</th>
<th>Total Based On Estimated Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>Incremental Mobilization &amp; Demob</td>
<td>1</td>
<td>L.S.</td>
<td>$</td>
</tr>
<tr>
<td>005</td>
<td>Dredging and Beach Fill</td>
<td>75,000</td>
<td>C.Y.</td>
<td>$____</td>
</tr>
</tbody>
</table>

**Option A Bid Total (Items 4&5):** $ ____________

4.2. **Schedule of Values.** Within ten (10) calendar days of Contract execution, Contractor shall submit to County a Schedule of Values allocating the Contract Price to the various portions of the Work. Contractor’s Schedule of Values shall be prepared in a format and supported with data sufficient to allow County to substantiate its accuracy. Contractor shall not imbalance its Schedule of Values nor artificially inflate any element thereof. The violation of this provision by Contractor shall constitute a material breach of this Contract. The Schedule of Values shall be used only as a basis for Contractor’s Applications for Payment and must be approved in writing by County.

4.3 **Payment Procedure.** County shall pay the Contract Price to Contractor as provided below.

4.4. **Progress Payments.** Based upon Contractor’s Applications for Payment approved by County, County shall make appropriate progress payments to Contractor toward the Contract Price.

4.5. **Retainage.** To ensure proper performance of the Contract, County will retain five percent (5%) of the amount of each approved Pay Application until the Project is 50% complete provided that Contractor continues to perform satisfactorily and any non-conforming work identified in writing prior to that date has been corrected by Contractor and accepted by County. If County determines Contractor’s performance is
unsatisfactory, County may reinstate retainage in the amount of five percent (5%) for each subsequent periodic Pay Application until Contractor’s performance becomes satisfactory. The Project shall be deemed fifty percent (50%) complete when Contractor’s gross Project invoices, excluding the value of materials and fixtures stored off-site, equal or exceed fifty percent (50%) of the value of the contract. The value of materials and fixtures stored on-site shall not exceed twenty percent (20%) of Contractor’s gross project invoices for determining whether the Project is fifty percent (50%) complete. Upon fifty percent (50%) completion of the Project, County may also withhold additional retainage from any subsequent periodic payments, not to exceed five percent (5%), to allow County to retain two and one half percent (2 ½%) total retainage through the completion of the Project. Within sixty (60) days after the submission of a final pay request, County, with written consent of the Surety, shall release to Contractor all retainage on payments held by County if (1) County receives a certificate of Substantial Completion from Contractor, Engineer, or Designer in charge of the Project; or (2) County may release all retainage, less that sum County reasonably estimates necessary to complete all punch lists, when County the use of the Project that is substantially complete. In all situations, County may retain sufficient funds to secure completion of the Project or corrections on any work. If County retains funds, the amount retained shall not exceed two and one half times (2 ½) the estimated value of the work to be completed or corrected. Any reduction in the amount of the retainage on payments shall be with the consent of Contractor’s surety. Retainer provisions contained within Contractor’s subcontracts may not exceed the terms and conditions for retainage provided herein. Nothing shall prevent County from withholding payment to Contractor in addition to the amounts identified herein for unsatisfactory job progress, defective construction, or remedied, disputed work or third-party claims filed against County or reasonable evidence that a third-party claim will be filed. Payment for stored materials and fixtures shall be conditioned upon Contractor’s satisfactory proof to County that County has title to such materials and fixtures and shall include proof of required insurance. Such Application for Payment shall be signed by Contractor and shall constitute Contractor’s representation that the Work has progressed to the level for which payment is requested in accordance with the Schedule of Values, that the Work has been properly installed or performed in full accordance with this Contract, and that Contractor knows of no reason why payment should not be made as requested. Thereafter, County will review the Application for Payment and may review the Work at the Project site or elsewhere to determine whether the quantity and quality of the Work is as represented in the Application for Payment and is as required by this Contract. County shall determine the amount properly owed to Contractor. County shall make partial payments of the Contract Price to Contractor within thirty (30) days following County’s receipt of each Application for Payment. The amount of each partial payment shall be the amount certified for payment by County less such amounts, if any,
otherwise owed by Contractor to County or which County shall have the right to withhold as authorized by this Contract.

4.6 Warranty of Title. Contractor warrants that title to all work covered by an Application for Payment will pass to County no later than at the time of the last payment to Contractor. Contractor further warrants that upon submittal of an Application for Payment, all work for which payments have been received from County shall be free and clear of liens, claims, security interests, or other encumbrances in favor of Contractor or any other person or entity.

4.7 Subcontractor Payments. Contractor shall promptly pay each subcontractor out of the amount paid to Contractor for such subcontractor’s work, the amount to which such subcontractor is entitled. In the event County becomes informed that Contractor has not paid a subcontractor as herein provided, County shall have the right, but not the duty, to issue future payments to Contractor and or subcontractor as joint payees. Such joint payment procedure shall create no rights in favor of any person or entity beyond the right of the named payees to payment of the check and shall not be deemed to create any rights in favor of Contractor or subcontractors or to commit County to repeat such payments in the future.

4.8 Acceptance Not Implied. No progress payment, nor any use or occupancy of the Project by County shall be interpreted to constitute a final acceptance of any Work that is not in full compliance with this Contract.

4.9 Withheld Payment. County may decline to make payment, may withhold funds, and, if necessary, may demand the return of some or all of the amounts previously paid to Contractor, to protect County from loss due to:

a) defective Work not remedied by Contractor nor, in the opinion of County, likely to be remedied by Contractor;

b) claims of third parties against County or County’s property;

c) failure by Contractor to pay subcontractors;

d) evidence that the balance of the Work cannot be completed in accordance with the Contract for the unpaid balance of the Contract price;

e) evidence that the Work will not be completed in the time required for Substantial or Final Completion;

f) persistent failure to carry out the Work in accordance with the Contract;

g) damage to County or a third party to whom County is, or may be, liable.

h) Failure of Contractor to maintain appropriate environmental protection measures or failure to comply with environmental permits, rules, and regulations.

In the event that County makes written demand upon Contractor for amounts previously paid by County as contemplated in this subparagraph, Contractor shall comply within thirty (30) business days of receipt of written demand.

4.10 Completion and Final Payment. When Contractor certifies that the Work is finally complete, Contractor shall submit to the County a list of items completed
or corrected. When the County determines that the Work is finally complete, a Certificate of Final Completion will be prepared establishing the date of Final Completion. If the Work is complete in full accordance with this Contract and this Contract has been fully performed, County may proceed with payment. Any guarantees or warranties, express or implied, required by the Contract or arising under law shall commence on the date of Final Completion of the Work. The Certificate of Final Completion shall be submitted to County and Contractor for their written acceptance of the responsibilities assigned to them in such certificate.

4.11 Final Completion Liquidated Damages. If Contractor fails to achieve Final Completion within the time fixed by County in its Certificate of Substantial Completion, Contractor shall pay County the sum of One Thousand Five Hundred ($1,500) Dollars per day for each and every calendar day of unexcused delay in achieving Final Completion beyond the date set forth herein for Final Completion of the Work. Any sums due and payable by Contractor shall be payable, not as a penalty, but as liquidated damages representing an estimate of delay damages likely to be sustained by County, estimated at or before the time of executing this Contract. When County reasonably believes that Final Completion will be unexcusably delayed, County shall be entitled to withhold from any amounts due Contractor an amount determined by County to be adequate to recover liquidated damages attributed to such delays. If and when Contractor remedies the delay in achieving Final Completion, or any part thereof, for which County has withheld payment, County shall promptly release to Contractor those funds, or a portion of those funds, withheld as liquidated damages.

4.12 Final Payment Submittals. Contractor shall not be entitled to final payment unless and until it submits to County its affidavit that all payrolls, invoices for materials and equipment, and other liabilities connected with the Work have been fully paid, that releases and waivers of lien are executed by subcontractors, and the consent of Surety has been obtained. If any third party fails or refuses to provide a release of claim or waiver of lien as required by County, Contractor shall furnish either a bond or monies satisfactory to County to discharge any such lien or indemnify County from liability.

4.13 Final Payment Due. County shall make final payment of all sums due Contractor within ten (10) business days of County’s execution of a final Certificate for Payment.

4.14 Contractor Waiver. Acceptance of final payment shall constitute a waiver of all claims against County by Contractor except for documented Contractor’s request for final payment.

ARTICLE V
COUNTY RIGHTS AND DUTIES
5.1 Information Provided by County. County shall deliver to Contractor, at the time of executing this Contract, all written and tangible materials in its possession concerning conditions below ground at the Project site. County shall furnish a legal description of the Project site, surveys, legal limitations and utility locations (if known). County does not represent, warrant, or guarantee the accuracy of the information either in whole, or in part, implicitly, or explicitly and shall have no liability for the accuracy of information.

5.2 Excluding permits and fees normally the responsibility of Contractor, County shall obtain all approvals, easements, and the like required for construction and shall pay for necessary assessments and charges required for construction, use, or occupancy of permanent structures or for permanent changes in existing facilities.

5.3 County shall furnish Contractor, free of charge, four (4) copies of the Contract Documents for execution of the Work. Contractor shall pay County, $50.00 per additional set of Contract Documents.

5.4 Right To Stop Work. If Contractor persistently fails or refuses to perform the Work in accordance with this Contract, County may order Contractor to stop the Work immediately.

5.5 County’s Right to Perform Work. If Contractor’s work is stopped by County, and Contractor fails within seven (7) business days of such stoppage to provide adequate assurance to County that the cause of such stoppage will be eliminated or corrected, then County may, without prejudice to any other rights or remedies County may have against Contractor, proceed to perform the Work. County shall issue an appropriate Change Order deducting from the Contract Price the cost of correcting the deficiencies. If the unpaid portion of the Contract Price is insufficient to cover the amount due County, Contractor shall pay the difference to County within thirty (30) business days.

5.6 County’s Right to Correct Defects. County shall give Contractor reasonably prompt notice of all observable defects. If Contractor fails to perform corrective work within a time determined by County, County may perform such work and charge Contractor for the costs incurred.

5.7 No Waiver of County’s Legal Rights. Upon completion of the Work, County will promptly make final inspection and notify Contractor of final acceptance. However, final acceptance shall not preclude or estop County from correcting any measurement, estimate, or certificate made before or after completion of the Work, nor shall County be precluded or estopped from recovering overpayments from Contractor, or its surety, or both. A waiver on the part of County of any breach of any part of the Contract shall not be held to be a waiver of any other or subsequent breach.
5.8 **County May Accept Defective or Nonconforming Work.** County may choose to accept defective or nonconforming Work. In such event, the Contract Price shall be reduced by the greater of (a) the reasonable cost of removing and correcting the defective or nonconforming Work, and (b) the difference between the fair market value of the Project as constructed and the fair market value of the Project had it not been constructed in such a manner as to include defective or nonconforming Work. If the remaining portion of the unpaid Contract Price, if any, is insufficient to compensate County for its acceptance of defective or nonconforming Work, Contractor shall, upon written demand from County, pay County such remaining compensation for accepting defective or nonconforming Work within thirty (30) business days.

**ARTICLE VI**

**CONTRACTOR DUTIES**

6.1 Consistent with Contractor’s continuing duty set forth in Article I, Contractor shall perform no part of the Work at any time without adequate Contract Documents or, as appropriate, approved Shop Drawings, Product Data, or Samples for such portion of the Work. If Contractor performs any of the Work knowing it involves a recognized error, inconsistency, or omission in the Contract Documents without such notice to County, Contractor shall bear responsibility for such performance and shall bear the cost of correction.

6.2 Contractor shall supervise and direct the Work using Contractor’s best skill, effort, and attention. Contractor shall be responsible to County for all acts or omissions of Contractor, its employees, subcontractors, and others engaged in the Work on behalf of Contractor.

6.3 **Warranty.** Contractor warrants to County that all labor furnished to progress the Work under this Contract will be competent to perform the tasks to meet the standards of workmanlike quality prevailing in North Carolina, that materials and equipment furnished will be of good quality, new, free from faults and defects, and in strict conformance with this Contract. All Work not conforming to these requirements may be considered defective. Contractor shall be responsible for all costs, damages and expenses including, but not limited to, penalties, fines and fees that County may incur because of Contractor’s failure to perform under this Contract.

6.4 **Supervision.** Contractor shall employ and maintain competent supervisory personnel at the Project site. Absent written instruction from Contractor to the contrary, Contractor’s designated superintendent shall be deemed Contractor’s authorized representative at the site and shall be authorized to accept all communications from County.
6.5 **Time of Performance Schedule.** Contractor, within seven (7) days of award of Contract, shall submit to County, Contractor's schedule for completing the Work. Contractor's schedule shall be revised no less frequently than monthly, and updated with each Pay Application, and the Schedule shall be revised to reflect unexpected conditions or occurrences related to the entire Project. Document revisions shall be furnished to County for approval. Failure by Contractor to comply strictly with the provisions of this Paragraph shall constitute a material breach of this Contract.

6.6 Contractor shall continuously maintain at the site, for the benefit of County, one copy of this Contract marked to record on a current basis changes, selections, and modifications made during construction. Additionally, Contractor shall maintain at the site the approved Shop Drawings, Product Data, Samples, and other similar required submittals. Upon Final Completion of the Work, all record documents shall be delivered to County.

6.7 Contractor shall not perform any portion of the Work requiring submittal and review of Shop Drawings, Product Data, or Samples unless and until County shall have approved the documents. Approval by County, however, shall not be evidence that the Work installed pursuant thereto conforms to the requirements of this Contract.

6.8 **Cleaning the Site and the Project.** Contractor shall keep the site clean during performance of the Work. Upon Final Completion of the Work, Contractor shall clean the site and the Project and remove all waste, together with all of Contractor's property.

6.9 **Access to Work.** County shall have access to the Work at all times from commencement of the Work through Final Completion. Contractor shall provide access to County when requested.

6.10 **Permits and Licenses.** County shall obtain the appropriate North Carolina Division of Coastal Management, North Carolina Division of Water Quality, and the U.S. Army Corps of Engineers permits and easements. Contractor shall procure all applicable permits and licenses, including permits and licenses required pursuant to applicable patent and copyright laws, shall pay all charges and fees, and shall give all notices necessary and incidental to the due and lawful prosecution to the work. There will be no charge for County building permits. Contractor shall obtain any and all U.S. Coast Guard dredge certifications and/or approvals as required to perform the work.

6.11 **Indemnity.** To the fullest extent permitted by law, Contractor shall indemnify and hold harmless County, its officers, officials, agents and employees and Gahagan & Bryant of NC, PLLC, Engineer, from and against liability, claims, damages, losses and expenses, including attorneys' fees, arising out of or resulting from performance of the Work, provided that such liability, claims, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) including loss of use resulting therefrom,
but only to the extent caused in whole or in part by negligent acts or omissions of Contractor, anyone directly or indirectly employed by it or anyone for whose acts they may be liable, regardless of whether or not such liability, claim, damage, loss or expense is caused in part by County, its officers, officials, agents and employees.

The Contractor agrees that it will allow County and Engineer access to its dredge(s) and its attendant vessels and equipment during the performance of this contract and to use the Contractor's transportation facilities from shore to the said vessels and equipment on the condition and with the understanding and agreement that in consideration for such authorization, they will not interfere with any employees of the Contractor while at work and does hereby agree to indemnify and hold the Contractor harmless from any and all injuries and damages that may be suffered and incurred when on or about the dredge, equipment and property of the Contractor, its agents, servants, or employees, due to actions by the County or Engineer while onboard said vessels.

**ARTICLE VII**

**INSURANCE**

7.1 Commercial General Liability. Contractor shall maintain Commercial General Liability (CGL) with a total limit of not less than $5,000,000 each occurrence for bodily injury and property damage. If such CGL insurance contains a general aggregate limit, it shall apply separately to the Project or the general aggregate shall be twice the required limit. CGL insurance shall be written on Insurance Services Office (ISO) “occurrence” form CG 00 01 covering CGL or its equivalent and shall cover the liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract, including the tort liability of another assumed in a business contract.

County, its officers, officials, agents, and employees are to be covered as additional insureds under the CGL by endorsement CG 20 10 and CG 20 37 or an endorsement providing equivalent coverage with respect to liability arising out of activities performed by or on behalf of Contractor; products and completed operations of Contractor; premises owned, leased or used by Contractor; and under the commercial umbrella, if required by County. The coverage shall contain no special limitations on the scope of protection afforded to County, its officers, officials, agents, and employees. The status of County as an additional insured under a CGL obtained in compliance with this Contract shall not restrict coverage under such CGL with respect to the escape or release of pollutants at or from the Project site. There shall be no endorsement or modification of the CGL or Umbrella Liability limiting the scope of coverage for liability arising from pollution, explosion, collapse, underground property damage, employment-
related practices, or damage to the named insured’s work. Contractor shall maintain CGL and, if necessary Commercial Umbrella Liability insurance, both applicable to liability arising out of Contractor’s completed operations, with a limit of not less than $5,000,000 each occurrence for at least three (3) years following substantial completion of the Work. Contractor’s CGL insurance shall be primary as to County, its officers, officials, agents, and employees. Any other insurance or self-insurance maintained by County, its officers, officials, agents, and employees shall be excess of and not contribute toward Contractor’s insurance.

7.2 The Workers’ Compensation and Employer’s Liability. Contractor shall maintain Workers’ Compensation as required by the State of North Carolina and Employer’s Liability Insurance. The Employer’s Liability, and if necessary, Commercial Umbrella Liability insurance shall not be less than $5,000,000 each accident for bodily injury by accident, $5,000,000 each employee for bodily injury by disease, and $5,000,000 policy limit. The Insurer shall agree to waive all rights of subrogation against County, its officers, officials, agents, and employees for losses arising from the Work performed by Contractor for County.

The U.S. Longshore and Harborworkers Compensation Act endorsement shall be attached to the policy when the services will be on or in close proximity to navigable waterways. The Maritime Coverage endorsement (WC 00 02 01) shall be attached to the policy when the contracted services involve the use of watercraft.

7.3 Business Auto Liability. Contractor shall maintain Business Auto Liability and, if necessary, Commercial Umbrella Liability insurance with a limit of not less than $5,000,000 combined single limit. Such insurance shall cover liability arising out of any auto, including owned, hired, and non-owned autos. Business Auto coverage shall be written on ISO form CA 00 01, or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage equivalent to that provided in ISO form CA 00 01. Contractor’s Business Auto Liability insurance shall be primary as to County, its officers, officials, agents, and employees. Any other insurance or self-insurance maintained by County, its officers, officials, agents, and employees shall be excess of and not contribute with Contractor’s insurance.

7.4 Surety Bond - Performance & Payment Bonds. Contractor shall furnish and deliver to County a Payment Bond and a Performance Bond covering the faithful performance and completion of work included in this Contract and payment for all materials and labor furnished or supplied in connection with work included in this Contract. All bonds shall be issued and furnished to County prior to, and as a condition precedent to, commencement of the Work of this Contract. The Payment Bond and Performance Bond shall be furnished on behalf of Contractor, shall name County obligee, and shall be one hundred percent (100%) of the amount of the guaranteed repair and maintenance costs. Such bond(s) shall be solely for the protection of County.
The Payment Bond and the Performance Bond shall be issued by a surety of financial standing having a rating from A.M. Best Company equal to or better than A and must be included on the approved list of sureties issued by the United States Department of Treasury. The bond shall remain in effect at least one (1) year after the date when final payment is made. The surety bond must be in the form set forth in N.C.G.S. 44A-33, without any variations therefrom. Contractor shall provide surety bond wherein Surety waives notice of all modifications, omissions, additions, changes and advance payments or deferred payments in or about the Contract, and agrees that the obligations undertaken by the Bond shall not be impaired in any manner due to any modifications, omissions, additions, changes, and advance payments or deferred payments. The surety bond must set forth no requirement that suit be initiated prior to the time stipulated in applicable North Carolina Statutes of Limitation.

7.5 Deductibles and Self-Insured Retentions. Contractor shall be solely responsible for the payment of all deductibles to which such policies are subject, whether or not County is an insured under the policy.

7.6 Miscellaneous Insurance Provisions: The policies are to contain, or be endorsed to contain, the following provisions: Any failure to comply with reporting provisions of the policies listed in this Contract shall not affect coverage provided to County, its officers, officials, agents, and employees. Each insurance policy required by this contract shall be endorsed to state that coverage shall not be canceled by either party except after thirty (30) days prior written notice has been given to New Hanover Risk Management, 230 Government Center Drive, Ste. 125, Wilmington, North Carolina, 28403.

If Contractor’s liability policies do not contain the standard ISO separation of insureds provision, or a substantially similar clause, they shall be endorsed to provide cross-liability coverage.

7.7 Acceptability of Insurers. Insurance is to be placed with insurers licensed to do business in the State of North Carolina with an A.M. Best's rating of no less than A VII unless specific approval has been granted by County.

7.8 Evidence of Insurance. Contractor shall furnish County with a certificate(s) of insurance, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements prior to commencing the Work, and thereafter upon renewal or replacement of each certified coverage until all the Work under this contract are deemed complete. Evidence of additional insured status shall be noted on the certificate of insurance as per requirements in this Contract. Insurance maintained after final payment evidencing such coverage shall be provided to County with final application for payment and thereafter upon renewal or replacement of such insurance until the expiration of the two-year period for which such insurance must be maintained.
7.9 **Subcontractors.** Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein. CCL coverage shall include Independent Contractors’ coverage, and Contractor shall be responsible for assuring that all subcontractors are properly insured.

7.10 **Conditions.** The insurance required for this Contract must be on forms acceptable to County. County may accept, at its discretion, letters of credit or custodial accounts in lieu of specific insurance requirements. Contractor shall provide that the insurance contributing to satisfaction of insurance requirements in this Contract shall not be canceled, terminated, or modified by Contractor without prior written approval of County. Contractor shall promptly notify New Hanover County Property Management and New Hanover County Risk Management at (910) 798-7498 of any accidents arising in the course of operations under the Contract causing bodily injury or property damage.

County reserves the right to obtain complete, certified copies of all required insurance policies, at any time. Failure of County to demand a certificate of insurance or other evidence of full compliance with these insurance requirements or failure of County to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor’s obligation to maintain such insurance. By requiring insurance herein, County does not represent that coverage and limits will necessarily be adequate to protect Contractor and such coverage and limits shall not be deemed as a limitation of Contractor’s liability under the indemnities granted to County in this Contract. If Contractor fails to maintain the insurance as set forth herein, County shall have the right, but not the obligation, to purchase said insurance at Contractor’s expense. County shall have the right, but not the obligation, of prohibiting Contractor or any subcontractor from entering the Project site or withholding payment until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by County.

**ARTICLE VIII**

**CLAIMS**

8.1 **Claims by Contractor.** All Contractor claims shall be initiated by written notice and claim to County. Such written notice and claim must be furnished within seven (7) calendar days after occurrence of the event, or the first appearance of the condition, giving rise to the claim.

8.2 **Contractor’s Duty to Continue Work.** Pending final resolution of any claim of Contractor, Contractor shall diligently proceed with performance of this
Contract. The resolution of any claim under this Paragraph shall be reflected by a Change Order executed by County and Contractor.

8.3 Claims for Concealed and Unknown Conditions. Should concealed and unknown conditions encountered in the performance of the Work (a) below the surface of the ground or (b) in an existing structure be at variance with the conditions indicated by this Contract, or should unknown conditions of an unusual nature differing materially from those ordinarily encountered in the area and generally recognized as inherent in the Work of the character provided for in this Contract be encountered, the Contract Price shall be equitably adjusted by Change Order upon the written notice and claim by either party made within seven (7) calendar days after the first observance of the condition. As a condition precedent to County having any liability to Contractor for concealed or unknown conditions, Contractor must give County written notice of, and an opportunity to observe, the condition prior to disturbing it. The failure by Contractor to make the written notice and claim as provided in this subparagraph shall constitute a waiver by Contractor of any claim arising out of or relating to such concealed or unknown condition.

8.4 Claims for Additional Costs. If Contractor wishes to make a claim for an increase in the Contract Sum, it shall give County written notice thereof within seven (7) calendar days after the occurrence of the event giving rise to such claim. Such notice shall be given by Contractor before proceeding to execute any additional or changed work. The failure by Contractor to give such notice and to give such notice prior to executing the Work shall constitute a waiver of any claim for additional compensation. No such claim shall be valid unless so made.

8.4.1 In connection with any claim by Contractor against County for compensation in excess of the Contract Price, any liability of County for Contractor's costs shall be strictly limited to direct costs incurred by Contractor and shall in no event include Contractor's indirect costs or consequential damages. County shall not be liable to Contractor for claims of third parties, including subcontractors, unless and until liability of Contractor has been determined in a court of competent jurisdiction.

8.5 Claims for Additional Time. If Contractor is delayed in progressing any task which at the time of the delay is then critical or which during the delay becomes critical, as the sole result of any act or neglect to act by County or someone acting in County's behalf, or by changes ordered in the Work, unusual delay in transportation, unusually adverse weather conditions not reasonably anticipatable, fire or any causes beyond Contractor's control, then the date for achieving Substantial Completion of the Work shall be extended upon the written notice and claim of Contractor to County, for such reasonable time as County may determine by written change order. Any notice and claim for an extension of time by Contractor shall be made not more than seven (7) calendar days after the occurrence of the event or the first appearance of the condition giving rise to the claim and shall set forth in detail
Contractor's basis for requiring additional time in which to complete the Project. In the event the delay to Contractor is a continuing one, only one notice and claim for additional time shall be necessary. If Contractor fails to make such claim as required in this Subparagraph, any claim for extension of time shall be waived.

8.5.1 If Contractor is delayed in the progress of the Work for any reason, including any act or neglect of County, any of its officers, officials, employers or agents, or any separate contractor employed by County, an extension of time shall be Contractor's exclusive remedy and Contractor waives any right it may otherwise have to damages because of delays or disruptions of any nature whatsoever to all or any part of the Work including, that this provision in itself shall not preclude Contractor from recovering damages for delays solely by acts of County or its officers, officials, agents, or employees.

8.6 Conflict of Interest. No party to this Contract shall acquire or possess any interest, either direct or indirect, in any aspect of the subject property to be constructed or renovated hereunder.

ARTICLE IX

SUBCONTRACTORS

9.1 Subcontractors. A Subcontractor is an entity that has a direct contract with Contractor to perform a portion of the Work.

9.2 Award of Subcontracts. Upon execution of the Contract, Contractor shall furnish County, in writing, the names of persons or entities proposed by Contractor to act as a subcontractor on the Project. County shall within ten (10) calendar days reply to Contractor, in writing, stating any objections County may have to such proposed subcontractor. Contractor shall not enter into a subcontract with a proposed subcontractor to whom County has made timely objection. Contractor shall not be required to subcontract with any party to whom Contractor has objection.

9.2.1 All subcontracts shall afford Contractor rights against the subcontractor, which correspond to those rights afforded to County against Contractor herein, including those rights afforded to County hereunder by the Subparagraphs captioned Termination by County.

ARTICLE X

TERMINATION

10.1 Termination by Contractor. If the Work is stopped for a period of ninety (90) days by an order of any court or other public authority, or as a result of an act of the Government, through no fault of Contractor or any person or entity working...
directly or indirectly for Contractor, Contractor may, upon ten (10) calendar days' written notice to County terminate performance under this Contract and recover from County payment for the actual reasonable expenditures of Contractor for all Work executed and for materials, equipment, tools, construction equipment and machinery actually purchased or rented solely for the Work, less any salvage value of any such items.

10.1.1 If County shall persistently or repeatedly fail to perform any material obligation to Contractor for a period of fifteen (15) calendar days after receiving written notice from Contractor of its intent to terminate, Contractor may terminate performance under this Contract by written notice to County. In such event, Contractor shall be entitled to recover from County as though County had terminated Contractor's performance.

10.2 Termination by County For Convenience. County may for any reason whatsoever terminate performance under this Contract by Contractor for convenience. County shall give written notice of such termination to Contractor specifying when termination becomes effective.

10.2.1 Contractor shall incur no further obligations in connection with the Work and Contractor shall stop Work when such termination becomes effective. Contractor shall also terminate outstanding orders and subcontracts. Contractor shall settle the liabilities and claims arising out of the termination of subcontracts and orders. County may direct Contractor to assign Contractor's right, title, and interest under terminated orders or subcontracts to County or its designee.

10.2.2 Contractor shall transfer title and deliver to County such completed or partially completed Work and materials, equipment, parts, fixtures, information and Contract rights Contractor controls or possesses.

10.2.3 (a) Contractor shall submit a termination claim to County specifying the amounts due because of the termination for convenience together with costs, pricing or other data required by County. If Contractor fails to file a termination claim within one (1) year from the effective date of termination, County shall pay Contractor, an amount derived in accordance with subparagraph [c] below.

(b) County and Contractor may agree to the compensation, if any, due to Contractor.

(c) Absent agreement to the amount due to Contractor, County shall pay Contractor the following amounts:

(i) Contract prices for labor, materials, equipment, and other services accepted under this Contract.

(ii) Reasonable costs incurred in preparing to perform and in performing the terminated portion of the Work, and in terminating Contractor's performance, plus a fair and reasonable allowance for overhead and profit thereon (such profit shall not include anticipated profit or consequential damages); provided however, that if it appears that Contractor would have not profited or would have
sustained a loss if the entire Contract would have been completed, no profit shall be allowed or included and the amount of compensation shall be reduced to reflect the anticipated rate of loss, if any;

(iii) Reasonable costs of settling and paying claims arising out of the termination of subcontracts or orders pursuant hereto.

10.3 Termination by County For Cause. If Contractor persistently or repeatedly refuses or fails to prosecute the Work in a timely and/or competent manner, supply enough properly skilled workers, supervisory personnel or proper equipment or materials, or if it fails to make prompt payment to subcontractors or for materials or labor, or persistently disregards laws, ordinances, rules, regulations or orders of any public authority having jurisdiction, or otherwise is guilty of a substantial violation of a material provision of this Contract, then County may by written notice to Contractor, without prejudice to any other right or remedy, terminate the employment of Contractor and take possession of the site and of all materials owned by County and may finish the Work by whatever methods it may deem expedient. Contractor shall not be entitled to receive any further payment until the Work is finished.

10.3.1 If the unpaid balance of the Contract Price exceeds the cost of finishing the work, including compensation for County’s additional services and expenses made necessary thereby, such excess shall be paid to Contractor. If such cost exceeds the unpaid balance, Contractor shall pay the difference to County. This obligation for payment shall survive the termination of the Contract.

10.3.2 In the event County terminates the employment of Contractor for cause and it is subsequently determined by a Court of competent jurisdiction that such termination was without cause, such termination shall thereupon be deemed a Termination for Convenience, such termination shall thereupon be deemed a Termination for Convenience.

ARTICLE XI
COMPLIANCE WITH LAWS

11.1 Laws To Be Observed. Contractor shall observe and comply with all Federal and State laws, including Department of Labor Health and Safety Regulations, and all local laws, ordinances and regulations, which in any way affect the Work. Contractor shall have the duty to maintain safety on the job site. OSHA or other Federal, State or Local laws, rules or regulations pertaining to safety shall be the sole responsibility of Contractor. Contractor shall indemnify and hold County harmless for any safety violations assessed against County.
11.2 **Underground Damage Prevention.** Contractor shall comply with N.C.G.S. Chapter 87, Article 8 and shall be responsible for costs of repair to all utilities damaged during construction.

11.3 **Taxes.** Contractor shall pay all applicable Federal, State, and Local taxes, including sales taxes on all equipment and materials used on the Project. County is qualified to receive all sales taxes paid on the project as a rebate. Contractor shall submit a statement showing the invoice and sales taxes paid to any governmental entity of all materials and equipment used at the Project. A tax statement shall be submitted with each Pay Application and shall be accompanied by an affidavit verifying validation.

11.4. **Contractor Non-Discrimination.** Contractor will take affirmative action not to discriminate against any employee or applicant for employment or otherwise illegally deny any person participation in or the benefits of the activities that are the subject of this Contract, because of race, creed, color, sex, age, disability, or national origin.

11.5 **Goal for Participation by Minority Businesses.** It is the policy of County that minority businesses shall have the maximum opportunity to participate in the performance of contracts financed with public money including contracts awarded pursuant to the requirements of N.C.G.S Chapter 143, Article 8. County has adopted a ten percent (10%) verifiable goal for participation by minority businesses in the total value of work required by the terms and conditions of this Contract. Contractor covenants and agrees to comply with County policy the provisions of N.C.G.S. Chapter 143, Article 8, and shall follow County guidelines specifying the actions Contractor must take to ensure a good faith effort in the recruitment and selection of minority businesses for participation in this Contract.

11.6 **E-Verify Compliance.** Pursuant to S.L. 2015-294, Contractor shall fully comply with the U.S. Department of Homeland Security employee legal status E-Verify requirements for itself and all its subcontractors. Violation of the provision, unless timely cured, shall constitute a breach of contract.

**ARTICLE XII**

**INTERPRETATION**

12.1 **Intent and Interpretation.** The intent of this Contract is to require complete, correct, and timely execution of the Work. Any work that may be required, implied, or inferred by the Contract Documents, as necessary to produce the intended result shall be provided by Contractor for the contract price.

12.2. **Law Applied.** All of the terms and conditions contained in the Contract Documents shall be interpreted in accordance with the laws of the State of North Carolina.
12.3 **Entire Agreement.** This Contract and Contract Documents constitute the entire understanding of the parties. The Contract Documents shall be given precedence in the following order: Agreement, Modifications, Addenda, Supplementary Conditions, Special Conditions, Instructions to Bidders, Contract Provisions, Technical Specifications, Appendices, and Drawings.

12.4 **Interpretation and Construction.** When a word, term, or phrase is used in this Contract, it shall be interpreted or construed first, as defined herein; second, if not defined, according to its generally accepted meaning in the construction industry; and third, if there is no generally accepted meaning in the construction industry, according to its common and customary usage. As between numbers and scaled measurements on the Drawings and in the Design, the numbers shall govern; as between larger scale and smaller scale drawings, the larger scale shall govern.

12.4.1 The words "include," "includes," or "including," as used in this contract, shall be deemed to be followed by the phrase, "without limitation".

12.4.2 Words or terms used as nouns in this Contract shall be inclusive of their singular and plural forms, unless the context of their usage clearly requires a contrary meaning.

12.4.3 The specification herein of any act, failure, refusal, omission, event, occurrence, or condition as constituting a material breach of this contract shall not imply that any other, non-specified act, failure, refusal, omission, event, occurrence, or condition shall be deemed not to constitute a material breach of this Contract.

12.5 **Dispute Resolution.** County hereby adopts those dispute resolutions procedures promulgated by the State Building Commission, as amended from time to time by the Commission or County. Said procedures shall be available to address any issues arising out of the contract or construction process wherein the matter in controversy exceeds Fifteen Thousand ($15,000.00) Dollars. Should Contractor herein utilize such dispute resolution procedures it must pay half of all costs incurred by County in conducting the dispute resolution.

12.6 **Arbitration.** Arbitration of claims, disputes, and questions arising under this Contract may only be used when both parties agree to arbitrate. Arbitration shall be in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. In no event shall fewer than three (3) arbitrators be used; County and Contractor shall each select one (1) arbitrator and the two (2) arbitrators shall select the third. The award rendered by the arbitrators shall be final, specifically enforceable, and recordable as a judgment in any court having jurisdiction.

12.7 **County Non-Discrimination.** County covenants and agrees that no person shall be denied benefits of, or otherwise be subjected to discrimination in connection with County’s performance under this Contract on the grounds of race, religion, color, national origin, sex or handicap.
12.8 Notices. All notices required hereunder to be sent to either party shall be sent to the following designated addresses, or to such other address or addresses as may hereafter be designated by either party by mailing of written notice of such change of address, by Certified Mail, Return Receipt Requested:

**To County:**
New Hanover County Engineering
Attn: Layton Bedsole
230 Government Center Drive, Suite 160
Wilmington, NC 28403

**To Contractor:**

12.9 Contract Under Seal. The parties hereto expressly agree to create a contract under seal.

IN WITNESS WHEREOF, the parties have affixed their hands and seals and caused the execution of this instrument, by authority duly given and on the day and year first above written.

NEW HANOVER COUNTY

[SEAL]

Jonathan Barfield, Chairman

ATTEST:

__________________________
Clerk to the Board

__________________________
President

ATTEST:

__________________________
Secretary

This instrument has been pre-audited in the manner required by the Local Government Budget and Fiscal Control Act. Approved as to form:
STATE OF NORTH CAROLINA
NEW HANOVER COUNTY

I, ___________________________, a Notary Public of the State and County aforesaid, certify that Kym Crowell personally came before me this day and acknowledged that she is Clerk to the Board of County Commissioners of New Hanover County, and that by authority duly given and as the act of the Board, the foregoing instrument was signed in its name by Jonathan Barfield, Jr., Chairman, sealed with its official seal and attested by herself as its Clerk.

WITNESS my hand and official seal, this ____ day of ____________, 2019.

My commission expires: ___________________________  Notary Public

STATE OF ________________
COUNTY OF _______________

I, ___________________________, a Notary Public of the State and County aforesaid, certify that __________________________, personally came before me this day and acknowledged that (s)he is Secretary of ____________________________, and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its President, sealed with its official seal and attested by herself as its Secretary.

WITNESS my hand and official seal, this ____ day of ____________, 2019.

____________________________  Notary Public

My commission expires: ___________________________
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FORM OF PERFORMANCE BOND

Date of Contract: ____________________________________________

Date of Execution: __________________________________________

Name of Principal: __________________________________________

(Contractor)

Name of Surety: _____________________________________________

Name of Contracting Body: NEW HANOVER COUNTY

Amount of Bond: _____________________________________________

Project: MASON INLET MAINTENANCE PROJECT 2019/2020

KNOW ALL MEN BY THESE PRESENTS, that we, the principal and surety above named, are held and firmly bound unto the above named contracting body, hereinafter called the contracting body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind, ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the contracting body, identified as shown above and hereto attached:

NOW, THEREFORE, if the principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the contracting body, with or without notice to the surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions and agreements of any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue.
IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Executed in __________________________ counterparts.

Witness: ______________________________

(Proprietorship or Partnership)

Attest: (Corporation)

By: __________________________________

Title: _______________________________

(Corp. Sec. or Asst. Sec. only)

(Corporate Seal)

Contractor: (Trade or Corporate Name)

By: _________________________________

Title: _______________________________

(Owner, Partner, or Corp. Pres. or Vice Pres. only)

(Surety Company)

By: _________________________________

Title: _______________________________

(Assistant Secretary)

(Surety Corporate Seal)

(Assistant Secretary)

(Surety Corporate Seal)

(N.C. Licensed Resident Agent)

(Surety Company Name and N.C. Regional or Branch Office Address)

(Surety Company Name and N.C. Regional or Branch Office Address)
FORM OF PAYMENT BOND

Date of Contract: ________________________________________________

Date of Execution: ______________________________________________

Name of Principal: ________________________________________________
   (Contractor)

Name of Surety: ________________________________________________

Name of Contracting Body: NEW HANOVER COUNTY

Amount of Bond: ________________________________________________

Project: ________________________________________________

KNOW ALL MEN BY THESE PRESENTS, that we, the principal and surety above named, are held and firmly bound unto the above named contracting body, hereinafter called the contracting body, in the penal sum of the amount stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal entered into a certain contract with the contracting body identified as shown above and hereto attached:

NOW, THEREFORE, if the principal shall promptly make payment to all persons supplying labor/material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of said contract that may hereafter be made, notice of which modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and virtue.

IN WITNESS WHEREOF, the above-bounden parties have executed this instrument under their several seals on the date indicated above, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Executed in _________________ counterparts.
Appendix C: Sediment Analysis
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Appendix D: Permits
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Appendix E: Drawings
NEW HANOVER COUNTY, NC

MASSON INLET MAINTENANCE PROJECT

2019/2020

FOR BIDDING
SEPTEMBER 23, 2019
ATLANTIC OCEAN
ATLANTIC INTRACOASTAL WATERWAY (AIWW)
MASON INLET
MASON CREEK
BANKS CHANNEL
WRIGHTSVILLE BEACH
FIGURE '8' ISLAND

BASE BID
375,000 CY

OPTION A
75,000 CY