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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01110

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SECTION 01110

SUMMARY OF WORK

PART 1 GENERAL

1.1 REFERENCES

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

U.S. ARMY CORPS OF ENGINEERS (USACE)

COE EM 385-1-1

(1996) U.S. Army Corps of Engineers Safety
and Health Requirements Manual

1.2 WORK COVERED BY CONTRACT DOCUMENTS

1.2.1 Project Description

Description of Work: Virginia Key is located between the city of Miami and Key Biscayne. The Virginia Key beach area to be rehabilitated is located along 3,500 feet of the Bear Cut/Atlantic Ocean shoreline. Access to the site is from the Rickenbacker Causeway. The project consists of demolishing and building 25 timber groins ranging in length from 30 to 70 feet long. This accounts for 1,030 linear feet of timber groins. The groins are to be constructed in 10-foot sections and anchored with 20' long tapered (12") timber piles. Rough-cut timber 3"x 8" (S2E) is to be bolted to 6"x 8" (full dimension) timbers and the timber piles. The central portion of the existing groin field includes 26 concrete king piles with horizontal timber panels (192 LF of structure). After removal, the salvageable timber groins and timber panels shall be stockpiled on-site. Unsalvageable timber piles and planks shall be disposed in a manner acceptable to the Contracting Officer. The concrete king piles shall be placed in the Brickell Offshore Disposal Site or disposed in a manner acceptable to the Contracting Officer. A site located at the southeast side of the Marine Stadium on Virginia Key may be used to deploy the concrete king piles to the Brickell site.

Three new timber-pile groins will be constructed along a 1,300-foot reach of eroded shoreline. Approximately 1,500 linear feet (LF) of new timber groins will be constructed within this area. Beach fill and a dune feature will be added to this reach of shoreline after completion of the new timber groins. Approximately 2,960 cubic yards of sand will be required for the beach fill and dune feature. The source of the material will come from either of two stockpiles of dredged material located adjacent to the project area or from an upland source. The material from the two borrow mounds will have to be processed to remove particles coarser than $\frac{3}{4}$ -inch

and reduce the percentage of silt to below 2 percent. Various debris along the existing shoreline will have to be removed prior to placement of beach fill.

Four alternatives are presented to complete this project. In Alternate A, the Contractor will obtain processed sand from the borrow mounds at the project site and dispose of the concrete king piles into the Brickell Offshore Disposal Site. In Alternate B, the Contractor will obtain processed sand from the borrow mounds at the project site and dispose of concrete king piles in a manner acceptable to the Contracting Officer but not at the Brickell site. In Alternate C, the Contractor will obtain sand from an upland source that meets the requirements of the specifications and dispose of the concrete king piles into the Brickell site. In Alternate D, the Contractor will obtain sand from an upland source that meets the requirements of the specifications and dispose of the concrete king piles in a manner acceptable to the Contracting Officer but not at the Brickell site. The Contractor is required to bid all the alternatives.

1.2.2 Location

The work shall be located at Virginia Key between Miami and Key Biscayne, approximately as indicated. The exact location will be shown by the Contracting Officer.

1.2.3 Safety Requirements

See Section 01525 GENERAL SAFETY REQUIREMENTS and COE EM 385-1-1.

1.3 COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK

a. Read this paragraph in conjunction with the Clause COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (FAR 52.211-10) of Section 00700 CONTRACT CLAUSES.

1.4 LIQUIDATED DAMAGES - CONSTRUCTION

Refer to the Clause LIQUIDATED DAMAGES - CONSTRUCTION (FAR 52.211-12 of Section 00700 CONTRACT CLAUSES.

1.5 PHYSICAL DATA

Read this paragraph in conjunction with the Clause PHYSICAL DATA (FAR 52.236-4) of Section 00700 CONTRACT CLAUSES.

1.5.1 Physical Conditions

The indications of physical conditions on the drawings and in the specifications are the result of site investigations by surveys and/or by core borings. When the indicated physical conditions are the result of site investigations by core borings, the core boring logs and laboratory data are in Section 00320 GEOTECHNICAL DATA and the core boring locations are shown on the drawings. Also, see section 00320 Geotechnical Data for instruction concerning availability of core borings for inspection.

1.5.2 Contractor Investigation

In addition to the information given in the contract drawings, the Contractor shall make his own investigation of available roads for transportation, load limits for bridges and roads, and other road conditions affecting the transportation of materials and equipment to the site. The Contractor shall investigate the availability of railroad sidings, and shall make all arrangements for use of any sidings for the delivery of any materials and equipment to be used on the work.

1.5.3 Maritime Traffic

Marine Traffic in the project area consists of Naval, cruise ships, commercial, pleasure, and small recreational vessels of all types and sizes which can be accommodated by existing depths.

1.5.4 Obstruction of Channel

The Government will not undertake to keep the channel free from vessels or other obstructions, except to the extent of such regulations, if any, as may be prescribed by the Secretary of the Army, in accordance with the provisions of Section 7 of the River and Harbor Act approved 8 August 1917.

The Contractor will be required to conduct the work in such manner as to obstruct navigation as little as possible, and in case the Contractor's plant so obstructs the channel as to make difficult or endanger the passage of any vessels, said plant shall be promptly moved on the approach of any vessel to such an extent as may be necessary to afford a practicable passage. Upon completion of the work the Contractor shall promptly remove his plant, including ranges, buoys, piles, and other marks placed by him under the contract in navigable waters or on shore.

1.6 LAYOUT OF WORK

Read this paragraph in conjunction with the Clause LAYOUT OF WORK (FAR 52.236-17) of Section 00700 CONTRACT CLAUSES.

1.6.1 Layout

From control data and elevations established by the Government, 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 Contracting Officer may require to meet changed conditions or as a result of necessary modifications to the contract work.

1.6.2 Survey

The Contractor shall furnish, at his own expense, such stakes, templates, platforms, equipment, tools and material, and all labor as may be required in laying out any part of the work from control data and elevations established by the Government. It shall be the responsibility of the Contractor to maintain and preserve all stakes and other marks established by the Contracting Officer 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 Contracting Officer, at his discretion, and the expense of replacement will be deducted from any amounts due or to become due the Contractor. The Contracting Officer 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.

1.7 DAMAGE TO WORK

The responsibility for damage to any part of the permanent work shall be as set forth in Clause PERMITS AND RESPONSIBILITIES of Section 00700 CONTRACT CLAUSES. However, if, in the judgement of the Contracting Officer, 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 Contracting Officer 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 Contracting Officer, there are no contract unit or lump sum prices applicable to any part of such work, an equitable adjustment pursuant to Clause CHANGES of Section 00700 CONTRACT CLAUSES 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 Contracting Officer at the Contractor's expense, regardless of the cause of such damage.

1.8 EXISTING WORK

In addition to "FAR 52.236-9, 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 Contracting Officer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

1.9 LOCATION OF UNDERGROUND FACILITIES

Verify the elevations of existing piping, utilities, and any type of underground obstruction not indicated or specified to be removed but indicated in locations to be traversed by piping, ducts, and other work to be installed.

1.10 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (31 OCT 1989)

This provision specifies the procedure for the determination of time extensions for unusually severe weather in accordance with the Clause DEFAULT (FIXED-PRICE CONSTRUCTION) of Section 00700 CONTRACT CLAUSES. In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

a. The weather experienced at the project site during the contract period must be found to be unusually severe; that is, more severe than the adverse weather anticipated for the project location during any given month.

b. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

1.10.1 Contractor Responsibility

Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the contract, the Contractor will record on the daily CQC report the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in paragraph (b) above, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Clause DEFAULT (FIXED PRICE CONSTRUCTION) of Section 00700 CONTRACT CLAUSES.

1.11 UNITS OF MEASURE

The standard U.S. system of measure may be utilized by the Contractor in the performance of his work. All survey records, official documentation, engineering data, and all correspondence, including any submittals and shop drawings, shall clearly denote which system of measure is being utilized, referenced or discussed. Any omission, unprofessional or inaccurate use of a unit of measure on the part of the Contractor shall not relieve him of his responsibilities under the contract terms. The unit of measure used in this specification is the standard U.S. system. The contract drawings denote both standard U.S. system and metric system where appropriate. If no unit of measure is indicated on the drawing such as on ranges, stations, slope elevations, and distance numbers, then they are to be considered the standard U.S. system.

1.12 CONSTRUCTION FORMS AND DETAILS

From the Jacksonville District Home Page, click the links ORGANIZATIONS, ENGINEERING, then CONSTRUCTION FORMS AND DETAILS. See web site address www.saj.usace.army.mil/cadd/end/construction_forms_and_details.htm.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

-- End of Section --