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DIVISION 02 - SITE WORK

SECTION 02220A

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SECTION 02220A

DEMOLITION

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 basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

EM 385-1-1 (1996) U.S. Army Corps of Engineers Safety and Health Requirements Manual

1.2 GENERAL REQUIREMENTS

The work includes demolition, salvage of identified items and materials, and removal of resulting rubbish and debris. Rubbish and debris shall be removed from Government property daily, unless otherwise directed, to avoid accumulation at the demolition site. Materials that cannot be removed daily shall be stored in areas specified by the Contracting Officer. In the interest of occupational safety and health, the work shall be performed in accordance with EM 385-1-1, Section 23, Demolition, and other applicable Sections. In the interest of conservation, salvage shall be pursued to the maximum extent possible and salvaged items and materials shall be disposed of as specified. The Contractor shall include an order of work on this project due to the seagrass mitigation portion of this project - where work should be begin at the western side and proceed to the east in order to accommodate the seagrass mitigation portion of the project. It is anticipated that seagrass will be transplanted from the project area and replanted at the mitigation area. This will require removal of the seagrasses prior to any placement of material. It is anticipated that several thousand yards of material may be needed to fill the mitigation areas prior to planting and we anticipate using the same source of material that will be used for the beach placement. The mitigation may also require the same separation techniques that will be used for the beach placement.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Statements

Work Plan; G,AE

The procedures proposed for the accomplishment of the work. The procedures shall provide for safe conduct of the work, including procedures and methods to provide necessary supports, lateral bracing and shoring when required, careful removal and disposition of materials specified to be salvaged, protection of property which is to remain undisturbed, coordination with other work in progress, and timely disconnection of utility services. The procedures shall include a detailed description of the methods and equipment to be used for each operation, and the sequence of operations in accordance with EM 385-1-1.

1.4 PROTECTION

1.4.1 Protection of Personnel

During the demolition work the Contractor shall continuously evaluate the condition of the structure being demolished and take immediate action to protect all personnel working in and around the demolition site. No area, section, or structural element will be allowed to be left standing without sufficient bracing, shoring, or lateral support to prevent collapse or failure while workmen remove debris or perform other work in the immediate area.

1.4.2 Protection of Existing Property

Before beginning any demolition work, the Contractor shall survey the site and examine the drawings and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain in place, to be reused, or to remain the property of the Government; any damaged items shall be repaired or replaced as approved by the Contracting Officer. The Contractor shall coordinate the work of this section with all other work and shall construct and maintain shoring, bracing, and supports as required. The Contractor shall ensure that structural elements are not overloaded and shall be responsible for increasing structural supports or adding new supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.4.3 Protection of Trees

Trees within the project site which might be damaged during demolition, and which are indicated to be left in place, shall be protected by a 6 foot high fence. The fence shall be securely erected a minimum of 5 feet from the trunk of individual trees or follow the outer perimeter of branches or clumps of trees. Any tree designated to remain that is damaged during the work under this contract shall be replaced in kind or as approved by the Contracting Officer.

1.4.4 Environmental Protection

The work shall comply with the requirements of Section 01355 ENVIRONMENTAL

PROTECTION.

1.5 BURNING

The use of burning at the project site for the disposal of refuse and debris shall not be permitted.

1.6 USE OF EXPLOSIVES

Use of explosives shall not be permitted.

1.7 AVAILABILITY OF WORK AREAS

Areas in which the work is to be accomplished are shown on the drawings.

1.8 Order Of Work

Demolition of any existing groin shall not begin until the the pre-condition survey noted in Section 02391, Beach Fill, is completed and accepted by the Contracting Officer and the corresponding new replacement groin has been installed. Turbidity curtains shall also be installed around the groins prior to the state of operations to minimize the impact on the seagrass beds.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.1 Turbidity Control

The Contractor shall install and maintain turbidity curtains around groins before demolition may begin.

3.2 EXISTING STRUCTURES

Existing timber groin with piles and concrete king piles shall be removed intact or to at least 4 feet below grade. If breakage of pile occurs and cannot be removed without extensive excavation, the remaining pile cap or plank shall be cut off smooth below grade as noted above.

3.3 EXCAVATION AND BACKFILLING

The Contractor shall excavate where necessary to remove the designated groins structures except where environmental resources are concerned. The contractor shall minimize impacts to seagrass areas and in areas of excavation the Contractor shall backfill to the existing grade.

3.4 DISPOSITION OF MATERIAL

Title to material and equipment to be demolished, except Government salvage and historical items, is vested in the Contractor upon receipt of notice to proceed. The Government will not be responsible for the condition, loss or

damage to such property after notice to proceed. The Contractor shall dispose of the concrete king piles removed from the existing groins in a manner acceptable to Contracting Officer. As an alternative the Government may elect to have the Contractor dump the concrete piles in the offshore Brickell site shown on the drawings. The Contractor may use the southeast corner of the Marine stadium on Virginia Key to deploy the concrete king piles. The concrete must be clean and exposed rebar must be cut flush to the surface prior to dumping in the Brickell site.

3.4.1 Items Salvaged for the Government

The existing timber groin to be removed will remain the property of the Government. The groins shall be removed in a manner to prevent damage, and stored/stockpiled within a staging areas in accordance with the Contractor Officer requirements.

3.4.2 Unsalvageable Material

Splintered piles and broken planks shall be disposed of in a manner acceptable to the Contracting Officer.

3.5 CLEAN UP

Debris and rubbish shall be removed from the beach site in a manner acceptable to the Contracting Officer. Local regulations regarding hauling and disposal shall apply.

3.6 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

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