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DIVISION 02 - SITE WORK

SECTION 02220A

DEMOLITION AND REMOVAL

04/02

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SECTION 02220A

DEMOLITION AND REMOVAL
04/02

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.

AMERICAN PUBLIC WORKS ASSOCIATION

200-1.5.5	Sand Gradations
201	Concrete, Mortar, and Related Materials
201-1.2.1	Portland Cement
300-1.3.2	Requirements
306-5	Abandonment of conduits and structure

U.S. ARMY CORPS OF ENGINEERS (USACE)

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

1.2.1 General

The work includes demolition, salvage of identified items and materials, and removal of resulting rubbish and debris. Rubbish and debris shall be removed from 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 (in accordance with Section 01572 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT, if applicable); salvaged items and materials shall be disposed of as specified.

1.2.2 Specific Work Included

A. Demolition and Removals work includes furnishing transportation, labor, materials, and equipment to perform demolition work, removals, disposal, salvage, re-use, recycling, and solid resources management including, but is not limited to the following:

1. Clearing and grubbing operations and removal of trees, brush, and vegetation.
 2. Demolish, remove and dispose of asphalt concrete and concrete pavement.
 3. Demolish, remove and dispose of post guardrail, guard post and associated foundations.
 4. Demolish, remove and dispose of telephone power, utility poles and overhead lines, transformers, electrical panels, and the like.
 5. Demolish, remove and dispose of building foundations, concrete slabs, and concrete platen structures.
 6. Demolish, remove and dispose of remaining portion of ship building way and launch structure.
 7. Demolish, remove and dispose of craneway structure and crane tower foundations.
 8. Demolish, remove and dispose of crane rails.
 9. Demolish, remove and dispose of steel sheet piles.
 10. Demolish, remove and dispose of timber wharf structure and piles.
 11. Demolish, remove and dispose of remaining portions of the work bay platform and transfer platform as shown on plans.
 12. Demolish, remove and dispose of underground utilities including but not limited to, sewer, storm, drains, electric/telephone conduits, water, gas, steam, air and oxygen.
 13. Demolish, remove and dispose of timber platforms and dolphin structures.
 14. Remove, salvage, and transport items as shown on the plans.
 15. Demolish remove and dispose of concrete filled fabriform slope protection blanket and quarry run slope protection material.
 16. Remove and dispose of armor rock slope protection as necessary.
 17. Other removal work shown on plans and as needed to construct the improvements shown on plans.
- B. Work also includes protection in place of all active utility lines and storm drain systems as shown on the plans, within, adjacent to, or affected by work under this contract.
- C. Provide temporary utility piping, wiring, and sanitary connection

to meet the needs of this work at no additional cost to the Government.

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. Submit accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-07 Certificates

Permits and Certificates

SD-01 Preconstruction Submittals

Work Plan; G

SD-11 Closeout Submittals

As-built Pile Survey; G

1.4 HAZARDOUS MATERIALS

Contractor shall be aware that hazardous materials may be encountered on the site. Contractor shall remove and dispose of hazardous materials in conformance with Section 01355 ENVIRONMENTAL PROTECTION.

1.5 DUST CONTROL

The amount of dust resulting from demolition shall be controlled to prevent the spread of dust to occupied portions of the construction site and to avoid creation of a nuisance in the surrounding area. Dust control shall conform with all City of Los Angeles and South Coast Air Quality District Regulations. Use of water will not be permitted when it will result in, or create, hazardous or objectionable conditions.

1.6 PROTECTION

1.6.1 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 component of the 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.

1.6.2 Protection of Structures

Structural components that are designed and constructed to stand without lateral support or shoring, and are determined to be in stable condition, shall remain standing without additional bracing, shoring, of lateral

support until demolished, unless directed otherwise by the Contracting Officer. The Contractor shall ensure that no elements determined to be unstable are left unsupported and shall be responsible for placing and securing bracing, shoring, or lateral supports as may be required as a result of any cutting, removal, or demolition work performed under this contract.

1.6.3 Protection of Existing Property

Before beginning any demolition work, the Contractor shall survey the site and examine the plans and specifications to determine the extent of the work. The Contractor shall take necessary precautions to avoid damage to existing items to remain or to be protected 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.

1.6.4 Protection From the Weather

Salvageable materials and equipment shall be protected from the weather at all times.

1.6.5 Environmental Protection

The work shall comply with the requirements of Section 01355 ENVIRONMENTAL PROTECTION.

1.7 BURNING

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

1.8 USE OF EXPLOSIVES

Use of explosives will not be permitted.

1.9 HIGH VOLTAGE POWER POLES

Exercise extreme caution while working around power poles and light poles.

1.10 SALVAGE - GENERAL

A. No on-site sale of salvage will be allowed. No removals shall be made from the site by any person other than the Contractor or employees of the Contractor.

B. Contractor shall salvage designated items as noted on plans and deliver items to the salvage site (Harbor Department Supply Yard) located at Berth 161. Delivery of salvage items shall be coordinated

with Port of Los Angeles Construction and Maintenance Division 24 hours prior to delivery. Contact (310)732-3550.

C. Exercise care in removing items to be salvaged.

D. Contractor shall be responsible for damage to materials that are identified to be salvaged.

1.11 WARNING - TOXIC MATERIAL

A portion of the existing timber wharf, crane rail and railroad ties, and dolphins to be removed contains cresote preservative, a chemical known to the State of California to cause cancer or reproductive toxicity. The timber wharf deck structure, timber wharf, piles, dolphins, and ties have not been tested. Disposal requirements are outlined in Article 3.2 of the Section.

1.12 ACCESS FOR UTILITY RELOCATION

Permit the utility owners and personnel engaged by them, access to the work site to maintain, relocate or inspect their facilities. Cooperate with them in performance of their work.

PART 2 PRODUCTS

2.1 SAND CEMENT SLURRY

A. Sand cement slurry shall conform to Section 201 of the Reference Specification.

B. Mix design shall be sand cement slurry 565-E-200P using sand as specified in Section 200-1.5.5 of the Reference Specification and Portland cement as specified in Section 201-1.2.1 of the Reference Specification. Contractor shall submit complete mix design to Contracting Officer and obtain Contracting Officer's approval prior to use of any sand cement slurry in the work.

PART 3 EXECUTION

3.1 GENERAL

The Contractor shall submit copies of required Permits and Certificates prior to performing work requiring permits and certifications.

The Contractor shall submit a Work Plan, a minimum of 14 days before the start of construction. The work plan shall include 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.

- A. Work shall be performed in accordance with applicable Federal, State, County, and City of Los Angeles Codes and Regulations. The work shall meet safety standards and requirements including those of CAL/OSHA. The Contractor shall have copies of applicable extracts of CAL/OSHA Construction Safety Orders and General Industrial Safety Orders at the work site.
- B. Remove existing improvements and facilities indicated on the plans. Removal work shall not exceed limits shown on plans unless instructed by the Contracting Officer. Contractor shall repair Contractor-damaged items, which are not a part of the removal work, at no cost to the Government.
- C. Items not shown on plans or mentioned in the Specifications, which are encountered during the Contractor's operations, shall be brought to the attention of the Contracting Officer. The Contracting Officer will determine the disposition of the items.
- D. Should the Contractor decide to move any large items intact off the site, arrangements for permits, clearances, and utilities are the Contractor's responsibility.
- E. Dumping of debris or materials on the Harbor waters is not permitted.
- F. Perform removal work under Contracting Officer's inspection. Work shall meet applicable safety standards and requirements.
- G. Remove from site vermin infested materials. Dispose of by safe means in accordance with applicable regulations so as not to endanger the health of workers or the public.

3.2 DISPOSAL

- A. Materials removed other than those specified and shown on plans to remain or salvage shall become the property of the Contractor and disposed of off the site as specified in Section 01355 ENVIRONMENTAL PROTECTION.
- B. Contractor has the option to transport material to the Port of Los Angeles crusher plant. It is the responsibility of the Contractor to obtain an unloading facility. The requirements on the use of the Port of Los Angeles crusher plant are listed below.
 - 1. **Removed asphalt, asphalt concrete and other bituminous pavement, concrete rubble, unreinforced concrete, rocks, concrete masonry, and reinforced concrete may be disposed of at the crusher site. Bricks, concrete-filled steel posts, heavily reinforced concrete items, such as concrete piles, wire-mesh-reinforced concrete and concrete formwork, shall become property of Contractor.**
 - 2. The crusher site is located in Wilmington, south of Pacific

Coast Highway, west of the Terminal Island Freeway. There will be no charge for the use of the site. In using the crusher site, the following conditions shall be met:

(a) Material may be disposed of only with prior approval of the Crusher Plant Contract Administrator. Notify the Crusher Plant Contract Administrator at least 24 hours prior to each occurrence of hauling and dumping of materials in the stockpile. Contract Administrators are: 1) Evelyn Onderdonk (310)732-3837, or 2) John Walker (310)732-3598.

(b) Break material into pieces not to exceed 3 cubic feet in volume and no greater than 1 foot in thickness. Projected area on any one face shall not exceed 9 square feet with no dimension greater than 3 feet. Rebars in reinforced concrete rubble shall not protrude more than 3 inches beyond the face of concrete.

(c) Materials to be stockpiled at the crusher site shall be placed as directed by the Crusher Plant Contract Administrator at Contractor's expense. This shall include providing equipment at the stockpile site needed to place material.

(d) Materials shall be free from residual petroleum, tars, waste, debris, soils, loose scrap metal, and any toxic, hazardous, or other foreign substances.

(e) Control dust at the Port of Los Angeles crusher plant stockpile site to prevent the generation of airborne dust particles per South Coast Air Quality Management District Regulations.

(f) Rocks shall not exceed 12 inches in size.

C. Contractor shall dispose of the creosoted timbers, piles, cranerail and railroad ties as specified in Section 01355 ENVIRONMENTAL PROTECTION.

3.3 BACKFILL EXCAVATIONS

A. Areas excavated as a result of removals shall be mechanically backfilled and compacted to in accordance with Section 02315N EXCAVATION AND FILL, unless otherwise specified or shown on the plans.

B. The Contractor shall notify the Contracting Officer 24 hours in advance of when the compacted material will be ready for testing by the Government.

3.4 REMOVAL OF ABANDONED CONDUITS AND SUBSTRUCTURES

A. Abandoned conduits and substructures encountered or called to be abandoned shall be handled in conformance with Subsection 306-5 of the Reference Specification.

B. Capping locations shall be provided to the Contracting Officer in

the form of a dimensioned drawing.

C. Where abandoned substructures and utilities are to be removed, the following shall be done before removing or cutting the substructures:

1. Tap the line and determine if the line contains any kind of liquid or gaseous material.
2. If the line is empty, or filled with concrete or mud slurry, it may be cut, capped, or plugged, or removed as directed by the Contracting Officer.
3. If the line is found to contain a liquid or gaseous material, the material shall be identified, removed, and disposed in accordance with applicable regulations. A testing laboratory selected by the Contracting Officer will identify material. Such work will be considered a change of work.

3.5 PAVEMENT REMOVALS

- A. Remove asphalt concrete pavement in conformance with Subsection 300-1.3.2 of the Reference Specification, except where the removal line will be a joint the line shall be saw cut to a 2inch minimum depth to provide a butt joint.
- B. Removal of concrete pavement as shown on the plans shall conform to Subsection 300-1.3.2 (b and c) of the Reference Specification, except the saw cut shall be to a depth of 2 inches.
- C. Existing base material below the pavements, if clean, may be used for fill or removed.

3.6 AS BUILT PILE SURVEY

Contractor shall submit As-built Pile Survey drawings after completion of the demolition in the southwest slip. Prior to removal of any piles, Contractor shall survey all piles, recording pile location (bent and row number), geographical co-ordinates of each pile and pile size. The top elevation of the piles left in place after removal shall also be recorded. An "as-built" pile location plan to scale with survey stations and the records of the piles remaining in place shall be submitted to the Contracting Officer within two weeks after completion of the demolition.

3.7 REMOVAL OF REMAINING PORTIONS OF THE WORK BAY AND TRANSFER PLATFORM

- A. Portions of the work bay and transfer platforms were removed under a separate contract. Contractor shall remove remaining portions of work bay and transfer platform as shown on the plans. Refer to plans for reference documents of portions removed under separate contract.
- B. Remove all waterside structures in compliance with Section 01355 ENVIRONMENTAL PROTECTION.
- C. Remove all hazardous material before beginning demolition per paragraph HAZARDOUS MATERIALS of this Specification.

D. Remove and dispose of all timber, electrical, mechanical, metals, hardware and other miscellaneous materials before demolishing the concrete structure. Do not allow materials to enter waters. Completely demolish, remove and dispose as stated below:

1. All remaining portions of the work bay and transfer platform as shown on the plans.
2. Concrete, timber and composite piles shall be cut at mudline and removed and disposed.
3. All piles shall be surveyed prior to removal per paragraph AS-BUILT PILE SURVEY of this specification.
4. Other obstructions as indicated on the plans.

E. Concrete rubble shall be completely captured and will not be allowed to drop into the water. This shall be accomplished by one or more of the following methods:

1. Saw concrete structure into individual pieces and lift to shore or barge using slings and crane.
2. Place barge or floats underneath deck structure to completely capture all rubble, dust, debris, etc. from the demolition process.

F. Care shall be taken in demolishing structures so as not to cause damage to adjacent structures, pavements, utilities, and other features to remain, including equipment and property of others. The Contractor shall repair or replace at no additional cost to the Government all adjacent structures and features that are intended to remain in place and damaged by the Contractor.

3.8 REMOVAL OF REMAINING PORTIONS OF THE TIMBER WHARF STRUCTURE

A. Portions of the timber wharf structure were removed under a separate contract. Contractor shall remove remaining portions of the timber wharf structure as shown on the plans. Refer to plans for reference documents of portions removed under separate contract.

B. Remove all waterside structures in compliance with Section 01355 ENVIRONMENTAL PROTECTION.

C. Remove all hazardous material before beginning demolition per paragraph HAZARDOUS MATERIALS of this Specification.

D. Remove timber piles completely by use of a vibrating extractor. Jetting of piles will be permitted. A minimum effort of two pulls or attempts to remove the pile must be made, even if the first attempt results in the pile breaking. Removal attempts may require the use of a diver if the pile breaks close to the mud line. If after two attempts the pile cannot be removed, the pile may be left in place and cut at the existing ground line. Intentional snapping or breaking of

piles will not be permitted.

E. Timber deck structure and timber piles shall be completely captured or removed if dropped in the water.

F. All piles shall be surveyed prior to removal per paragraph AS-BUILT PILE SURVEY of this specification.

3.9 REMOVAL OF REMAINING PORTIONS OF SHIPBUILDING WAY AND CRANEWAY STRUCTURE

A. Portions of the shipbuilding way and crane way structure where removed under a separate contract. Contractor shall remove remaining portions of the shipbuilding way and crane way structure as shown on the plans. Refer to plans for reference documents of portions removed under separate contract.

B. Remove all waterside structures in compliance with Section 01355 ENVIRONMENTAL PROTECTION.

C. Remove all hazardous material before beginning demolition per paragraph HAZARDOUS MATERIALS of this Specification.

D. Portions of shipbuilding way and crane way structure to be removed shall be removed completely. If portions of structure are dropped into water they shall be completely removed.

E. All piles shall be surveyed prior to removal per paragraph AS-BUILT PILE SURVEY of this specification section.

3.10 REMOVAL OF CONCRETE FABRIFORM SLOPE PROTECTION

A. Remove all concrete fabriform slope protection above elevation +0 feet MLLW.

B. Concrete fabriform rubble shall be completely removed and will not be allowed to drop into the water.

C. Dispose of concrete as stated in paragraph DISPOSAL.

3.11 REMOVAL OF QUARRY RUN AND ARMOR ROCK SLOPE PROTECTION

A. Remove all quarry run and armor rock slope protection above elevation +0 feet MLLW.

B. The Contractor has the option to dispose of all quarry run and armor rock slope protection within 5 feet of the bottom of D212 dike dredge cut containing the gravel drainage blanket and wick drains, distributed evenly along the length of the dike trench as directed by the Contracting Officer. This volume of rock will be paid for under the Demolition bid item.

3.12 REMOVAL OF VARIOUS STRUCTURES ON THE NORTH SIDE OF THE SOUTHWEST SLIP

A. Remove all portions of various structures, as shown on the plans,

located on the north side of the southwest slip.

B. Remove piles completely by use of a vibrating extractor or by pulling. Jetting of piles will be permitted.

C. Remove all wtaerside structures in compliance with Section 01355 ENVIRONMENTAL PROTECTION.

D. Remove all hazardous material before beginning demolition per paragraph HAZARDOUS MATERIALS of this specification section.

E. All piles shall be surveyed prior to removal per paragraph AS-BUILT PILE SURVEY of this specification.

3.13 DEBRIS BARRIER AND SILT CURTAIN

Install debris barrier and silt curtain containment per approved plans prior to demolition. Maintain, repair and redeploy during the demolition as necessary to comply with permits and at the direction of the Contracting Officer.

A. All demolition debris, dust, sediments, silt, water runoff and other deleterious substances inadvertently dropped into the waters shall be completely contained by the barrier and silt curtain during the demolition. Rubbish, garbage, chemical, sanitary, hazardous and oily wastes shall not be permitted to enter any wastes at any time.

B. Breeches in containment shall be repaired immediately. Notify the Contracting Officer by fastest means possible of breeches that spill contaminants into surrounding waters. Contain spills by redeploying curtain, adding additional curtains, booms, vacuums, and other means to minimize consequences.

C. Clear floating debris from water surfaces daily.

D. Do not remove barriers and silt curtains until waters within the containment are free from debris, suspended materials and contaminants.

E. Lowering of barriers and silt curtains for the passage of water-born equipment shall only be done when:

1. It is the only means available to allow passage.
2. All floating debris has been removed from the area to be lowered.
3. Suspended material has been minimized.
4. Passage will not constitute a breach in the containment and spillage into adjacent waters.

3.14 EXISTING STRUCTURES CAPACITY

The Government makes no claim or warrantee of the structural capacity or

suitability of any existing structures to safely support the Contractor's equipment. Contractor shall make own investigations of the capacity and suitability prior to submission of bid. In the event that any or all of the structures are found not capable or suitable of safely supporting Contractor's equipment, Contractor shall employ safe means and methods for the demolition at no additional cost to the Government.

3.15 COORDINATION WITH WICK DRAIN PLACEMENT

Demolition of waterside structures are to be performed in areas that require wick drains to be installed under this contract. Contractor shall be responsible for any obstructions to wick drain placement that are caused by demolition debris being dropped and left in the water.

3.16 POTHOLING

A. Contractor shall pothole underground utilities shown on plans prior to beginning excavation. The pothole shall expose and verify the horizontal location and depth of each utility crossing an excavation, proposed utilities, or track work.

B. The Contractor shall notify Underground Service Alert and the Contracting Officer 48 hours prior to the start of pot holing.

C. The Contractor shall prepare an information data sheet for each pothole showing a sketch of the pothole location and giving information on:

1. Date of pot holing.
2. Pothole coordinates or distances to survey monuments or known above ground permanent landmarks.
3. Top and bottom elevations.
4. Size and description of utility.
5. Special conditions encountered during the pot holing.
6. Name of pot holing supervisor.
7. Name of utility representative contacted prior to pot holing.

D. A copy of the data sheet shall be given to the Contracting Officer for the Governments records.

3.17 DEWATERING

There shall be no dewatering allowed. Work below the ground water including trenching and excavation shall be performed in the wet.

3.18 CLEAN-UP

Upon completion of the project, remove excess materials, equipment, and

debris from the site and the adjacent streets, and leave area in broom-clean condition.

3.19 UTILITIES

Existing utilities shall be removed as indicated. When utility lines are encountered that are not indicated on the plans, the Contracting Officer shall be notified prior to further work in that area.

3.20 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.

3.20.1 Salvageable Items and Material

3.20.1.1 Material Salvaged for the Contractor

Material salvaged for the Contractor shall be stored as approved by the Contracting Officer and shall be removed from property before completion of the contract. Material salvaged for the Contractor shall not be sold on the site.

3.20.1.2 Items Salvaged for the Government

Salvaged items to remain the property of the Government shall be removed in a manner to prevent damage, and packed or crated to protect the items from damage while in storage or during shipment. Items damaged during removal or storage shall be repaired or replaced to match existing items. Containers shall be properly identified as to contents.

3.20.2 Unsalvageable Material

Concrete, masonry, and other noncombustible material, except concrete permitted to remain in place, shall be legally disposed of offsite.

3.21 CLEAN UP

Debris and rubbish shall be removed from basement and similar excavations. Debris shall be removed and transported in a manner that prevents spillage on streets or adjacent areas. Local regulations regarding hauling and disposal shall apply.

-- End of Section --