

## CONSTRUCTION WASTE MANAGEMENT

### SECTION 01524 - CONSTRUCTION WASTE MANAGEMENT

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes administrative and procedural requirements for the following:
  - 1. Recycling nonhazardous construction waste.

##### 1.2 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- C. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- D. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- E. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

##### 1.3 PERFORMANCE GOALS

- A. General: Develop waste management plan that results in end-of-Project rates for salvage/recycling of 100 percent of total waste generated by the Work for following materials:
  - 1. Concrete and concrete masonry.
  - 2. Wood.
  - 3. Paper and cardboard.
  - 4. Steel and Metals
  - 5. Masonry

#### 1.4 WASTE MANAGEMENT PLAN

##### A. Waste Reduction Work Plan:

1. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
2. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.

#### 1.5 QUALITY ASSURANCE

##### A. Assign Waste Management Coordinator and define duties.

##### B. Waste Management Conference: Conduct conference at Project site.

1. Review and discuss waste management plan including responsibilities of Waste Management Coordinator.
2. Review requirements for documenting quantities of each type of waste and its disposition.
3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
5. Review waste management requirements for each trade.

#### 1.6 SUBMITTALS

##### A. Waste Management Plan: Submit 3 copies of plan within 7 days of date established for commencement of the Work.

##### B. Name of Waste Management Coordinator and description of duties.

##### C. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them.

Include manifests, weight tickets, receipts, and invoices.

1. Submit with closeout documents.

##### D. Waste Disposal Records: Indicate receipt and acceptance of waste by disposal facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1. Submit with closeout documents.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION

### 3.1 PLAN IMPLEMENTATION

- A. General: Implement waste management plan as approved by Architect. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
  - 1. Provide signage in English, Spanish and graphics.
- B. Waste Management Coordinator: Assign a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site full time for duration of Project.
- C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
  - 1. Distribute waste management plan to everyone concerned within three days of submittal return.
  - 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
- D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
  - 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.

### 3.2 RECYCLING CONSTRUCTION AND DEMOLITION WASTE, GENERAL

- A. Procedures: Recyclable materials may be source separated on-site, or they may be commingled and separated off-site.
  - 1. If materials are source separated on-site, separate recyclable waste from other waste materials, trash and debris. Separate recyclable waste by type at project site to the maximum extent practical.
  - 2. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin. Inspect containers and bins for contamination and remove contaminated materials if found.
  - 3. Remove recyclable waste off Owner's property and transport to recycling receiver or processor.

B. Recycling Receivers and Processors: List below is provided for information only; available recycling receivers and processors include, but are not limited to, the following:

1. Vendors for self-managed On-site Source Separating:

a. Cherry Crushed Concrete, 4601 Holmes Road, Houston, Texas 77033;

713 731-2040.

b. Southern Crushed Concrete, 5625 Griggs Road, Houston, Texas 77021;

281 987-8789.

c. Novus Wood Inc., 5900 Haynesworth Lane, Houston, Texas 77034;

281 922-1000.

d. Gulf Coast Scrap Metal, 8770 Hempstead Road, Houston, Texas 77008;

281 868-4111.

e. Vista Fibers, 1200 Brittmoore, Houston, Texas 77043; 713 461-9933.

2. Materials commingled for off-site separation may be processed by waste and recycling vendors including, but not limited to, the following:

a. Gainsborough Waste, 5202 Kiam, Houston, Texas, 77007; 713 785-8050

b. Lone Star Disposal LP. 10415 Tanner Rd, Houston, Texas 713 433 4574

C. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.

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### 3.3 RECYCLING CONSTRUCTION WASTE

A. Packaging:

1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.

2. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.

3. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

- B. Concrete: Comply with recycler requirements.
- C. Metals: Comply with recycler requirements.
- D. Wood Materials:
  - 1. Clean Cut-Offs of Lumber: Unpainted and untreated.
  - 2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.
- E. Site-Clearing Wastes: Chip brush, branches, and trees.

#### 3.4 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
  - 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
  - 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.

END OF SECTION 01524