

SECTION 01 74 19 – CONSTRUCTION WASTE MANAGEMENT

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes requirements for the following:
 - 1. Salvaging nonhazardous Construction and Demolition Waste.
 - 2. Recycling nonhazardous Construction and Demolition Waste.
 - 3. Disposing of nonhazardous Construction and Demolition Waste.

1.2 DEFINITIONS

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

1.3 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition and construction waste become property of Contractor.
- B. Historic items, relics, antiques, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.4 SUBMITTALS

- A. Waste Management Plan: Submit a draft plan prior to start of demolition and construction. Final Plan must be approved by owner prior to first Application for Payment. Plan shall consist of items outlined below.
 - 1. Waste Identification:
 - a. Identify anticipated types and quantities of waste generated by the Work.
 - b. Include estimated quantities (by weight) and assumptions for estimates.
 - c. Indicate locations of containers or bins for sorting and collecting waste at the project site.
 - d. Identify the Waste Management Coordinator for the Project.
 - 2. Waste Reduction:

- a. List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator.
- b. Indicate location and method of waste salvage, recycling, or disposal.
- c. Provide calculations to show how waste reduction will meet Performance Requirement.

3. Waste Documentation:

- a. Specify how waste will be tracked, and how rates for salvage, recycling, and disposal will be calculated.
- b. Provide draft format of Progress Report and Final Report for review.

B. Progress Reports: Concurrent with each Application for Payment, submit a report that includes current calculated rates for salvage, recycling, and disposal by weight and as a percentage of total waste generated by the Work.

C. Final Report: Prior to Substantial Completion, submit a report that includes final calculated rates for salvage, recycling, and disposal by weight and as a percentage of total waste generated by the Work for the entire Project.

1.5 WASTE MANAGEMENT REQUIREMENTS

A. Waste Management Meeting: Prior to start of demolition and construction, conduct a Waste Management Meeting. Review methods and procedures related to Waste Management Plan.

B. Performance Requirement: Achieve a minimum end-of-Project rate for salvage/recycling of at least **fifty percent (50%)** by weight of total nonhazardous solid waste generated by the Work.

1. Exemption: At the Owners discretion, small Projects that do not require a dumpster may be exempt from Performance Requirement. Confirm exemption with Owner prior to start of demolition or construction.
2. All projects shall practice efficient waste management in the use of materials. Use all reasonable means to divert Construction and Demolition Waste from landfills and incinerators.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved Waste Management Plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement Waste Management Plan.

B. Waste Management Coordinator: Identify a waste management coordinator to be responsible for implementing, monitoring, and reporting status of Waste Management Plan.

C. Training: Inform workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work. Distribute Waste Management Plan to entities when they first begin work on-site.

D. Site Access: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities. Coordinate location of collection area with Owner prior to starting construction or demolition.

3.2 SALVAGING DEMOLITION WASTE

- A. Owner reserves the first right of refusal to salvage existing items to be demolished. Salvaged items shall be cataloged and included in Waste Management Plan.
- B. Salvaged Items for Reuse in the Work: Salvage items for reuse and handle as follows:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 - 3. Store items in a secure area until installation.
 - 4. Protect items from damage during transport and storage.
 - 5. Install salvaged items to comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make items functional for use indicated.
- C. Salvaged Items for Owner's Use: Salvage items for Owner's use and handle as follows:
 - 1. Clean salvaged items.
 - 2. Pack or crate items after cleaning. Identify contents of containers with label indicating elements, date of removal, quantity, and location where removed.
 - 3. Store items in a secure area until delivery to Owner.
 - 4. Transport items to Owner's storage area designated by Owner.
 - 5. Protect items from damage during transport and storage.
 - 6. Equipment: Protect equipment from exposure to weather.
 - 7. Plumbing Fixtures: Separate by type and size.
 - 8. Lighting Fixtures: Separate lamps by type and protect from breakage.
 - 9. Electrical Devices: Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit breakers, and other devices by type.

3.3 RECYCLING DEMOLITION AND CONSTRUCTION WASTE

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Contractor.
- C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or disposal facility requirements.
- D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction Waste Management Plan.
 - 1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin. Coordinate location of containers and bins with Owner prior to starting construction or demolition.
 - 2. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

3.4 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged or recycled, 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. Smoking or open fires will not be permitted within the buildings or on the premises.

END OF SECTION 01 74 19

TEMPLATE