

SECTION 01310 - CONSTRUCTION WASTE MANAGEMENT

PART 1 - GENERAL

1.1 REQUIREMENTS INCLUDED IN THIS SECTION

- A. Waste Management Goals
- B. Waste Management Plan
- C. Management Plan Implementation

*See also Add #1  
opposite page*

1.2 WASTE MANAGEMENT GOALS

- A. The Owner has established that this Project shall generate the least amount of waste possible and that processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors shall be employed.
- B. Of the inevitable waste that is generated, as many of the waste materials as economically feasible shall be reused, salvaged, or recycled. Waste disposal in landfills shall be minimized.
- C. Diversion Goal: A minimum 90% of total project waste shall be diverted from the landfill.
- D. With regard to these goals the Contractor shall develop, for the Owner and Architect's review, a Waste Management Plan for this Project.

1.3 WASTE MANAGEMENT PLAN

- A. Draft Waste Management Plan: Within 10 calendar days after receipt of Notice of Award of Bid, or prior to any waste removal, whichever occurs sooner, the Contractor shall submit to the Owner and Architect a Draft Waste Management Plan. The Draft Plan shall contain the following:
  1. Analysis of the proposed jobsite waste to be generated. Include the types of material to be generated and estimated quantity of each material (in tons).
  2. Landfill options: Estimated cost of disposing of all project waste in landfill(s), name of landfill(s) where Project waste would normally be disposed of and tipping fees.
  3. Alternatives to Landfilling: A list of each material proposed to be salvaged, reused, or recycled during the course of the Project, estimated quantity of each material (in tons), the proposed local market for each material, and the estimated net cost savings or additional costs resulting from separating and recycling (versus landfilling) each material. "Net" means that the following have been subtracted from the cost of separating and recycling: (a) revenue from the sale of recycled or salvaged materials; and (b) landfill tipping fees saved due to diversion of materials from the landfill. The list of these materials is to include, at a minimum, the following materials:

- 1. Concrete
- 2. Asphalt

3. Bricks
  4. Concrete Masonry Units (CMU)
  5. Landclearing debris free of trash or inorganic materials.
  6. Clean dimensional wood
  7. Plywood, OSB, and particle board
  8. Cardboard
  9. Paper
  10. Metals
  11. Gypsum Wallboard
  12. Carpet
  13. Paint
  14. Plastic
  15. Glass
  16. Ridged foam insulation
  17. Beverage Containers
4. Materials Handling Procedures: A description of the means by which any waste materials identified in item (3) above will be protected from contamination, and a description of the means to be employed in recycling the above materials consistent with requirements for acceptance by designated facilities.
  5. Transportation: A description of the means of transportation of the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site) and destination of materials.
  6. Source Reduction: List processes that minimize waste such as working with suppliers to take back or buy back substandard, rejected or unused items and to deliver supplies using returnable pallets and containers. Also include procedures to minimize breakage, mishandling, contamination, and other factors that reduce job site waste.
  7. Meetings: A description of the regular meetings to be held to address waste management. Contractor shall conduct Construction Waste Management meetings. Meetings shall include subcontractors affected by the Waste Management Plan. At a minimum, waste management goals and issues shall be discussed at the following meetings: pre-bid meeting, pre-construction meeting, and regularly scheduled job-site meetings.
  8. Indicate any instance where compliance with requirements of this specification does not appear to be possible and request resolution from the Owner and Architect.
- B. Resource for Development of Waste Management Plan: The following sources may be useful in developing the Draft Waste Management Plan:
1. (List local solid waste and recycling resources such as local governmental agency responsible for managing waste).

C. Waste Management Plan Review Meeting: Once the Owner and Architect have reviewed the Draft Waste Management Plan and prior to any waste removal at the site, schedule and conduct a meeting to review the Draft Waste Management Plan and discuss procedures, schedules and specific requirements for waste materials recycling and disposal. Discuss coordination and interface between the Contractor and other construction activities. Identify and resolve problems with compliance with requirements. Record minutes of the meeting, identifying all conclusions reached and matters requiring further resolution.

1. Attendees: The Contractor and related Contractor personnel associated with the work of this section, including personnel to be in charge of the waste management program, Architect, Owner and such additional personnel as the Architect or Owner deems appropriate.

D. Final Waste Management Plan: Make any revisions to the Draft Waste Management Plan agreed upon during the meeting identified in item (C) above and incorporate resolutions agreed to be made subsequent to the meeting. Submit the revised plan to the Owner and Architect for approval within 10 calendar days of the meeting.

#### 1.4 WASTE MANAGEMENT PLAN IMPLEMENTATION

A. Manager: The Contractor shall designate an on-site party (or parties) responsible for instructing workers and overseeing and documenting results of the Waste Management Plan for the Project.

B. Distribution: The Contractor shall distribute copies of the Waste Management Plan to the Job Site Foreman, each Subcontractor, the Owner, and the Architect.

C. Instruction: The Contractor shall provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.

D. Separation facilities: The Contractor shall lay out and label a specific area to facilitate separation of materials for potential recycling, salvage, reuse, and return. Recycling and waste bin areas are to be kept neat and clean and clearly marked in order to avoid contamination of materials.

E. Hazardous Waste: Hazardous wastes shall be separated, stored, and disposed of according to local regulations.

F. Application for Progress Payments: The Contractor shall submit with each Application for Progress Payment a Summary of Waste Generated by the Project. Failure to submit this information shall render the Application for Payment incomplete and shall delay Progress Payment. The Summary shall be submitted on a form acceptable to the Owner and shall contain the following information:

1. The amount (in tons) of material landfilled from the Project, the identity of the landfill, the total amount of tipping fees paid at the landfill, and the total disposal cost. Include manifests, weight tickets, receipts, and invoices.

2. For each material recycled, reused, or salvaged from the Project, the amount (in tons), the date removed from the jobsite, the receiving party, the transportation cost, the amount of any money paid or received for the recycled or salvaged material, and the net total cost or savings of salvage or recycling each material. Attach manifests, weight tickets, receipts, and invoices.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 01310

Specification 01310 - Construction Waste management

General contractor is responsible for any and all trash service needed. Contractor is responsible for making sure recycle containers are kept free of contaminating materials. Ball State University will recycle or collect the following construction waste materials as described.

Earth/Spoils – BSU will recycle excess stockpile of dirt and spoils removed from construction site. The stockpile site is located at the Heath Farm. Contractors will be responsible for trucking it to the stockpile site.

Asphalt – The contractor shall dispose of asphalt waste generated from the site. This product is not recyclable by BSU.

Concrete – BSU will recycle concrete construction waste. The disposal site is located at the Heath Farm. Contractors will be responsible for trucking it to the disposal site.

Gypsum – BSU will recycle gypsum construction waste. Collection will be done on site with BSU providing the dumpster service.

Porcelain – Tile can be included in the concrete materials. Plumbing fixtures are recycled through BSU Inventory Control. Contractor shall notify BSU, and they will be removed in a timely manner.

Metals – BSU recycles through The Recycling Center 630 South M Street P.O. Box 2038 Richmond, IN. 47375 (800) 826-9222 attn. Todd Hill. The contractor shall be responsible for recycling all metal construction waste.

Wood – BSU will absorb this material into its existing composting operation. BSU will provide a dumpster service at the job site.

Doors – Any existing doors to be removed shall be recycled whole through BSU Inventory Control. Contractor shall notify BSU when an existing door has been removed. Owner will remove any stockpiled doors from construction site in a timely manner.

Glass – Whole, unbroken pieces of glass can be recycled through BSU Inventory Control. Owner will remove any stockpiled glazing from construction site in a timely manner. Broken glass that is clear, brown, and green shall be recycled through BSU's existing trash / recycling vendor Republic Services. Contractor shall coordinate.

Plastics – At the present time only # 1 & # 2 plastics are accepted by Republic Services. Dumpster can be provided if this recycling stream is large enough to warrant the expense. Otherwise BSU will set-up a smaller batch collection system by providing containers and pick up.

Cardboard – BSU will assume the recycling responsibility for this material. Dumpster service will be provided by BSU.

Bond Paper- BSU will assume the recycling responsibility for this material. Collection and containers from the job site will be provided by BSU.

Paint and solvents – BSU will provide for collection of paint and solvent waste material from the job site. Contractor shall notify BSU and pick up will be performed in a timely manner.

Carpet – Contractor shall be responsible for removal of all carpet construction waste material from the job site. This material is not recyclable.

Letterman