

# DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 1 • GENERAL REQUIREMENTS

## 01 74 19 • WASTE MANAGEMENT

### SECTION INCLUDES

Construction and Demolition Waste Management

### RELATED SECTIONS

02 41 00 Demolition



### ENVIRONMENTAL ISSUES

Reducing the amount of construction waste sent to landfills is an important environmental protection and sustainable development goal. Construction materials that can be reused rather than disposed contain a lot of embodied energy and natural resources. A Waste Management Plan that is appropriate for the site and conditions should be included in the specification. The introduction of a Waste Management Plan into the specification can help avoid the negative environmental impact of waste materials which are filling up the diminishing amount of landfill space and creating pollutants through incineration.

As additional incentive, many of the recycling agencies are more cost effective than traditional construction waste facilities, making waste management strategies a financially prudent approach.

In addition paperless projects with construction submittals in pdf format should be considered.

### SPECIFICATIONS FOR THE WASTE MANAGEMENT PLAN

- Specification prepared for the bid documents must be comprehensive and specific.
  - Based on the survey of existing conditions, include the specific materials and quantities that the contractor will be required to salvage or recycle. Include packing materials.
  - List Procedures for recycling: Salvage, on-site reuse, mixed waste recycling, etc.
  - List recycling facilities or a contact for assistance in identifying recycling facilities.
  - List reporting requirements for waste materials removed from the project.
  - List method for receiving authorization for alternative methods of disposal.
  - Construction bin must be clearly marked to help avoid mixed waste contamination and in some cases the dumpster may need to be locked after hours of operation.
  
- The contractor and all the subcontractors are to be notified that the Waste Management Plan is mandatory.

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### CONSTRUCTION WASTE MANAGEMENT REFERENCES

The following links may be helpful in determining potential recycling markets for building materials:

Massachusetts Department of Environmental Protection Resources on Construction and Demolition Waste Recycling

<http://www.mass.gov/eea/agencies/massdep/recycle/reduce/managing-construction-demolition-wastes.html>

This guide includes a good example of a Waste Management Plan.

<http://www.mass.gov/eea/docs/dep/recycle/reduce/m-thru-x/wastplan.pdf>

U.S. EPA <http://www.epa.gov/epawaste/conserve/imr/cdm/index.htm>

Whole Building Design Guide [www.wbdg.org/resources/cwmgmt.php](http://www.wbdg.org/resources/cwmgmt.php)  
Construction Waste database [www.wbdg.org/tools/cwm.php](http://www.wbdg.org/tools/cwm.php)

MBDC Cradle to Cradle <http://www.mbdc.com/cradle-to-cradle/c2c-framework/>

Green Goat [www.greengoat.org](http://www.greengoat.org)

### EXECUTION

Prepare the comprehensive Waste Management Plan for the project and provide for oversight of implementing the provisions of the approved Waste Management Plan. Note the Waste Management Plan oversight is recorded like an "As Built" drawing.

Include a communication plan which outlines how recycling will take place, who the responsible contacts are for the general contractor as well as each subcontractor, what forms of submittals are acceptable, the schedule for submittal, what the expected recycled content will be and predicted quantities. The communication plan needs to be discussed at the initial construction meeting and to specify when and how the waste management plan will be tracked.

Submit records of recycling salvage and dumping after demolition is complete or as an on going process depending on the project conditions. The submittal of records should be a shop drawing requirement in the submittal section of the specification. DHCD will be tracking and creating a data base of recycling on our projects as a part of the ongoing effort to create more sustainable and ecologically sound projects. Therefore, the mandatory submittal of records is essential to the project.

Provide text on all specifications reading: work shall comply with rules, laws and regulations of local, state and federal authorities of jurisdiction.