



RecyclingWorks in Massachusetts



Spring 2018 TURA Continuing Education Conference

**Materials Contributing to Solid Waste: Packaging, Furniture
and C&D Waste**

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RecyclingWorks in Massachusetts



- ✓ Deconstruction and Building Materials Reuse Practices
- ✓ Corporate/Institutional Office Furniture and Equipment Reuse Best Management Practices
- ✓ Packaging Reduction Practices





Deconstruction and Building Materials



- Pre-demolition cleanouts
- Demolition
- Deconstruction
 - Soft strip or full deconstruction
 - Can be cost-effective when materials are donated or sold for reuse



Online resource: <https://recyclingworksma.com/construction-demolition-materials-guidance/>



Waste Management Plans



- Require waste diversion in bid specifications
 - Set diversion goals
 - Identify materials to target
 - Require contractor to develop a Waste Management Plan
- Waste Management Plan
 - List materials streams and projected quantities
 - Identify outlets/haulers for each stream
- Links to:
 - [Sample Waste Management Plan](#)
 - [Sample Bid Specifications for C&D Waste](#)

CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT

PART 1 - GENERAL

1.1 Related Sections (edit as appropriate for consistency)

- A. Section 01031 - Waste Management / Recycling Alternates
- B. Section 01060 - Regulatory Requirements
- C. Section 01094 - Definitions
- D. Section 01300 - Submittals
- E. Section 01600 - Materials and Equipment

1.2 Description of Work

- A. This section describes the requirements for the Contractor and all subcontractors to minimize construction waste and debris and to reuse, salvage, and recycle to the greatest extent feasible.
- B. This section includes a statement of [INSTITUTION]'s Waste Management Goals, requirements for the development of a draft and final Waste Management Plan, a reference to resources to assist in recycling, and steps for Management Plan Implementation.
- C. This section specifies certain wastes that are required to be recycled.
- D. This section specifies obligations for Reporting to the [INSTITUTION] weights of materials recycled and materials not recycled or reused throughout the project.

1.3 Intent and Waste Management Goals

- A. [INSTITUTION]'s waste management goals include increased recycling and conservation of materials. Construction and Demolition Wastes have been identified as a particular target for reuse and recycling, for several reasons:
 - C&D debris typically represents a large volume of material;
 - Many of the waste streams generated during building demolition and construction projects are highly recyclable at reasonable prices;
 - Massachusetts has banned landfill disposal of some C&D debris beginning in 2003, and expects to ban other C&D debris in subsequent years.
- B. [INSTITUTION] has determined that reducing, to the maximum extent practicable, the amount of waste disposed of in this project is a high priority. The Contractor and subcontractors shall take steps to generate the least amount of waste possible by minimizing waste due to error, poor planning, breakage, mishandling, contamination, or other factors.



Material Reuse – Reuse Outlets



- On-site reuse
- Non-profit reuse stores in MA
- Tax deduction for donation

Other reuse outlets

- Architectural salvage stores
- Wood salvage businesses
- Material brokers
- Used furniture stores





Furniture and Office Equipment Reuse



Benefits:

- Financial
- Environmental
- Community
- Customer & Employee satisfaction





Surplus Furniture Options



Reuse Options:

- Internal reuse
- Resale
- Local donation
- National donation
- International donation





Reuse Considerations



- Type(s) of furniture
- Quantity/Inventory
- Quality/Condition
- Where and how stored
- Labor and support
- Transportation
- Budget





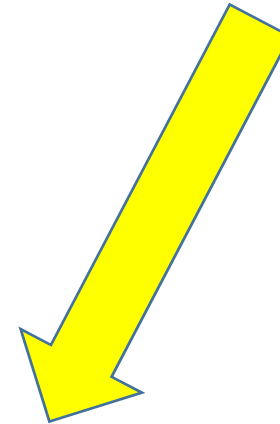
Packaging Reduction Practices



Supply Chain Packaging

Vendor Deliveries

Manufactured Packaging





Packaging Reduction Practices



Vendor Deliveries

Sustainable Packaging Policy

- ✓ Ask supplier for take-back program
- ✓ Bulk ordering or reduced deliveries
- ✓ Ask supplier for reusable packaging options
- ✓ Ask to list environmental attributes of packaging material (recyclable, compostable)

+ Communicate Requirements to Vendors and Follow Up

Online resource: http://responsiblepurchasing.org/purchasing_guides/packaging/index.php



Packaging Reduction Practices



Manufactured Packaging

Assessment model that quantify financial and environmental consequences

- ✓ Rethink packaging
- ✓ Minimize packaging
- ✓ Optimize container space
- ✓ Use reusable materials
- ✓ Consider a take-back program

+ Be involved in the packaging conversation



Call for stakeholders

Furniture and Office Reuse Best Management Practices

Contact RecyclingWorks with questions or comments:

info@RecyclingWorksMA.com or **(888) 254-5525**

www.RecyclingWorksMA.com



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