Z10 General Requirements - UniFormat to MasterFormat Conversion Chart

Uniformat No.	MasterFormat No.	Title
Z1070.30	01 74 19	Construction Waste Management and Disposal

Z.1070.30 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT

01 74 19 DESCRIPTION

A. Objectives

Construction waste is a significant portion of the waste produced in the United States. Keeping these materials out of landfills prevents ground and water pollution, promotes recycling and prolongs the lifecycle of materials. To save resources and strengthen the UAB campus and the broader Birmingham community, the University of Alabama at Birmingham has committed to diverting construction and demolition debris from landfill disposal and seeking ways in which to recycle and reuse waste wherever possible. Toward this goal, the project will seek to recycle or reuse a minimum of 75% of the project's construction and demolition waste, which must include at least four material streams and exclude hazardous materials (which must be tracked separately).

B. Waste Diversion Goals

1. Divert at least 75% (by weight) of the total construction and demolition (C&D) waste materials generated onsite.
2. Divert materials from at least four major material or waste streams. Waste streams are defined by where the waste goes. Common materials used on UAB projects that might be simple to divert include wood, scrap metals, asphalt and concrete. Typically, a single material goes to a single waste stream; however, there are cases where a single type of material could go to multiple waste streams and conversely, where multiple materials go to a single waste stream.

C. Targeted Materials

The following major waste streams shall be targeted for diversion when anticipated to constitute at least 5% of total construction and demolition waste (by weight). See the "Expected Waste Streams & Disposal Procedures" table for additional materials that should be targeted for diversion from landfill.

1. Concrete
2. Asphalt
3. Scrap metal
4. Wood products

5. Masonry products

D. Separation Procedures

1. Separate materials onsite into multiple containers labeled for each material type.
2. See the "Expected Waste Streams & Disposal Procedures" table for additional diversion and handling information specific to each anticipated material stream.

E. Communication Plan

1. An onsite, preconstruction meeting will be conducted with subcontractors to review the project's waste diversion goals and processes. Attendance is mandatory for the subcontractor's key field personnel. The purpose of the meeting is to reinforce participants' commitments to the project goals and requirements.
2. Waste prevention and recycling activities and the tracking of waste hauls removed from the site and bound for recycling/reuse facilities will be discussed during each job meeting. Strategies for course correction will be discussed and implemented as needed if the project is not meeting diversion goals.
3. Each contractor and subcontractor will be given a copy of this CWM plan, and will be provided with instruction in appropriate separation and handling procedures. A tour of the recycling and waste management areas will also be conducted. Each subcontractor is expected to ensure his/her crews understand and comply with this plan.
4. Regular updates will be posted showing the progress to-date for achieving the project's waste recycling goals.

F. Contamination Prevention Measures

1. A specific area will be designated onsite to facilitate separation of materials for potential recycling, salvage, reuse, and return.
2. Appropriately-sized, roll-off, sorting containers will be conveniently located in various work areas. The containers will be well-marked and kept clean to prevent contamination.
3. Recycling and waste containers will be labeled in English and Spanish, with acceptable/unacceptable materials posted. Signage can show a representative picture of the materials to be recycled.
4. The contents of the sorting bins will be periodically consolidated in the appropriate dumpsters.
5. Sufficient containers for non-recyclable materials will be provided and located separately from recycling containers, with clear signage.
6. Containers will be securely covered when not supervised. Precautions will be taken to deter any contamination by the public.
7. Hazardous waste will be separated and stored in a specific area onsite, and will be disposed of in accordance with local regulations. They will be tracked separately and not included in the project's total waste.

G. Expected Waste Streams & Disposal Procedures

The following waste materials are expected for this project and should be included in the diversion rate calculation. The table below indicates the disposal method, the appropriate handling procedure, and the anticipated quantity for each material.

Waste Stream	Jobsite Disposal Method	Handling Procedure
Concrete: **Including CMU**	**Recycle** "Clean Concrete Only" container	Place excess concrete, free of waste, in appropriate dumpster
Asphalt	**Recycle**	Remove asphalt via loader and place in truck to be hauled from site
Scrap metal: Including rebar, steel studs, metal flashing, scrap hardware, embeds, hollow metal and aluminum frames, piping	**Recycle** "Metal Only" container	Place acceptable scrap metal in appropriate dumpster
Wood products: **Untreated wood, plywood, OSB, particle board, clean dimensional wood, wood pallets**	**Recycle** "Wood Only" container	Place wood, free of waste materials, that is unusable for construction in appropriate dumpster Place painted/treated wood in "Landfill Only" dumpster
Masonry products: **Including face bricks, hollow bricks**	**Reuse / Return**	Stockpile bricks that are unusable for construction for return to the manufacturer
Cardboard	**Recycle** "Cardboard Only" container	Clean cardboard will be broken down and placed in appropriate dumpster Unless a diversion method or outlet is identified, all packaging materials must be removed and disposed of properly in the "Landfill Only" container
Ceiling tiles	**Recycle** "Ceiling Tile" pallets	Stack used ceiling tiles on pallets and secure with stretch wrap or metal bands
Carpet tiles	**Recycle** "Carpet Only" container	Organize carpet tile scraps in pallets for pick up by carpet recycler

Drywall	**Recycle** "Drywall Only" container	Place drywall waste that can't be used for construction in appropriate dumpster
Aluminum and plastic containers, mixed paper	**Recycle** "Recycling" tote	Place in general recycling tote
All other non-recyclable C&D waste	**Landfill** "Landfill Only" container	Place all other waste that cannot be recycled in "Landfill Only" dumpsters

H. Additional Waste Materials

The following waste materials must be tracked and reported separately in the project's construction waste report. These materials are not included in the diversion rate calculation.

Waste Stream	Description/Information
Land-clearing debris	Land-clearing debris materials are natural (e.g., rock, soil, vegetation) and should be diverted from the landfill if possible.
Hazardous materials	Hazardous materials will be separated and stored in a specific area onsite, and will be disposed of in accordance with local regulations.

I. Recycling Facilities and Processing Method

The recycling facility and processing method for each anticipated diverted waste stream that is included in the diversion rate calculation is summarized below.

Waste Stream	Destination	Description/Information
Concrete	Contractor to provide waste hauler reports, including diversion location, to UAB.	Recycled into various uses, depending on market (e.g., into base product for buildings and roads)
Asphalt		Reprocessed into new asphalt
Scrap metal		Recycled in the scrap metal market
Wood products		Recycled into mulch
Masonry products		Manufacturer take-back for reuse or recycling into other products
Cardboard		Recycled into new cardboard containers
Ceiling tiles		Manufacturer take-back for recycling or local recycling
Carpet tiles		Manufacturer take-back for recycling

Drywall	Contractor to provide waste hauler reports, including diversion location, to UAB.	Recycled into soil amendment product
Aluminum and plastic containers, mixed paper		Recycled into new products

J. Tracking Procedures and Records

1. All the construction and demolition waste leaving the site will be tracked.
2. Waste hauler reports will be used for documentation and provided to UAB.
3. Estimated weight of materials that are reused on site or salvaged for reuse on other projects by subcontractors or vendors will be recorded.
4. Receipts will be retained and weight will be estimated for materials donated to charities, reuse retailers, or other recipients that can verify and track incoming and outgoing materials.

K. Construction Waste Reporting Requirements

1. A final report on all the waste for the project will be produced, in the form of the LEED Construction and Demolition Waste Calculator, that includes the following information:
    a. Total C&D waste produced by the project.
    b. Types of waste material and quantity of each material.
    c. Total number of material streams diverted from landfill.
    d. Total waste diverted and diversion rate.
    e. Diversion rate = (Total C&D waste diverted from the landfill / Total C&D waste produced by the project) x 100
    f. Land-clearing debris or hazardous waste will not be included in the diversion rate calculation but the method of disposal of these materials shall be separately tracked.
    g. Construction materials to be processed into ADC (alternative daily cover) shallll be included in the Total C&D waste produced by the project in the diversion rate calculation.

Revision Request Form - Electrical Construction Standards

Date: _____

Requestor: _____ Department/Consultant: _____

Project Number & Name: _____

EXISTING ELECTRICAL STANDARD

Section Number & Name: _____

Section Revision Number: _____ Section Paragraph: _____

(ENTER CURENT SECTION LANGUAGE BELOW)

REQUESTED REVISION REQUEST

(ENTER REVISION SECTION LANGUAGE BELOW)- **Identify if request will be permanent to standards or for the referenced project.**

JUSTIFICATION FOR REVISION

FOR UNIVERSITY OF ALABAMA AT BIRMINGHAM USE ONLY

UAB Staff Requestor: _____
Authorized UAB Approval Personnel: _____ Date: _____
Status: _____Rejected _____ Accepted
_____ Revise and Resubmit (see attachment)