Section 11 80 00 – Zero Waste Collection and Equipment (Material Handling for Zero Waste Diversion)

ZERO WASTE STANDARD OVERVIEW

Please involve the Zero Waste Program in all aspects of the project. Contact 541-346-0961 to schedule a walk-through of existing spaces to assess current equipment and office/department clean-out needs prior to move. Provide program with timeline such that equipment can be moved, inventoried and scheduled for use in temporary space. Program will assist in design phase to determine equipment and service requirements for completed project. It is the responsibility of the project to fund new zero waste equipment determined in the following standards.

The University of Oregon strives for a zero waste campus model. This includes creating a waste management system that favors waste reduction and recovery as follows:

- no stand-alone garbage cans inside and outside campus buildings
- always site garbage with zero waste collection as a waste (discard) management system
- recommended siting for zero waste stations is one per floor with additional units with compost near entrances and exits
- zero waste stations (to include landfill-garbage) serve as waste (discard) management system inside buildings
- public drop-off sheds (sited with garbage collection) serve public areas/ loading dock zero waste staging/cardboard recycling dumpsters and garbage dumpsters serve exterior building locations
- compost collection is sited in common areas, where food is consumed and in areas that generate food and compostable waste (i.e. cafes and kitchens)
- building users are encouraged to participate in system through implementation of zero waste desksliders that require users to centralize all discards to a zero waste station (including landfill items)
- elimination of classroom “garbage” cans is encouraged/site zero waste stations central to areas of classrooms/lecture halls for collecting classroom discards
- consider event/meeting/conference space(s) waste generation and ensure spaces function with zero waste goal
- make zero waste the rule and not the exception

General information on siting equipment:

- zero waste stations should be located in central areas such as public egresses
- all department kitchen locations should employ recycling and compost opportunities as well as landfill
- All mail rooms and printing areas require bags and racks to capture paper waste
- cardboard collection and removal is the responsibility of the building user due to fire code
- work with Zero Waste Program to determine special needs for equipment siting, special collections and to develop a system for handling discards within and outside of campus buildings
- always site zero waste stations in heavy use areas, ensure they are highly visible and within physical proximity to waste generating activity

Other options for resource conservation and zero waste in campus buildings/areas:

- install water refill equipment in all campus buildings to reduce plastic bottle use and disposal
- create reusable office supply spaces in department and building areas for departments to share office supplies to assist in maximizing campus resource use

Program Materials Handling list and Services:
http://zerowaste.uoregon.edu/Material.htm

Zero Waste Campus Toolkit:
http://zerowaste.uoregon.edu/ZWCampusToolKit_text.htm
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Zero Waste is Higher Education!
### Overview of Zero Waste Equipment Options

*All equipment meets ADA standards; due to changing prices, contact FASS Purchasing to get equipment quote.*

#### Equipment:
- Order Event Zero Waste Services
- Eliminate Stand-Alone Garbage Cans
- 2.5 Gallon Kitchen Compost Carrier
- 5 Gallon Bucket
- Eliminate Deskside Collection of Garbage
- Zero Waste Desksiders
- 3 Tiered Boxes
- Step-to-open Compost Bin
- Residence Hall In-Room/Apartment Bins
- Bagits and Racks
- Bagit Steel Enclosures
- 3/4 Part Max-R ZW Station with Inserts
- Combo 4-Part PDO and 2 Barrel Shed
- 2-4 Barrel Recycling Shed
- 14-Gallon Curbside Recycling Bin
- 4-Part PDO Domed Lids
- 55-Gallon Plastic Barrels
- 50-Gallon Fiber Barrels
- 32 Gallon Totes
- 96 Gallon Totes
- Cardboard Recycling Dumpster
- 55-Gallon Fiber Barrels
- 50-Gallon Fiber Barrels
- 32 Gallon Totes
- 96 Gallon Totes
- Cardboard Recycling Dumpster

#### Location:
- Studios
- Small Spaces - TBD
- Residence Hall Rooms
- Residence Hall Exterior
- Reception Areas/Lobby
- Public Hallways
- Office and Academic Block Interior
- Mall Copy/Print Room
- Labs - Desk Service
- Kitchens/Break Rooms
- Farm Housing/University Affairs Interior
- Farm Housing/University Affairs Exterior
- Student Spaces
- Common Spaces
- Commercial Kitchens
- Classroom/Lecture Halls
- Cages
- Building Loading Docks
- Bathrooms
- Athletics Facilities Exterior
- Athletics Facilities Interior

#### Equipment Usage:
- Order/Event Zero Waste Services
- Eliminate Garbage Cans
- Zero Waste Desksiders
- 2.5 Gallon Kitchen Compost Carrier
- 5 Gallon Bucket
- Eliminate Deskside Collection of Garbage
- Zero Waste Desksiders
- 3 Tiered Boxes
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- Combo 4-Part PDO and 2 Barrel Shed
- 2-4 Barrel Recycling Shed
- 14-Gallon Curbside Recycling Bin
- 4-Part PDO Domed Lids
- 55-Gallon Plastic Barrels
- 50-Gallon Fiber Barrels
- 32 Gallon Totes
- 96 Gallon Totes
- Cardboard Recycling Dumpster

#### Equipment Availability:
- Studios
- Small Spaces - TBD
- Residence Hall Rooms
- Residence Hall Exterior
- Reception Areas/Lobby
- Public Hallways
- Office and Academic Block Interior
- Mall Copy/Print Room
- Labs - Desk Service
- Kitchens/Break Rooms
- Farm Housing/University Affairs Interior
- Farm Housing/University Affairs Exterior
- Student Spaces
- Common Spaces
- Commercial Kitchens
- Classroom/Lecture Halls
- Cages
- Building Loading Docks
- Bathrooms
- Athletics Facilities Exterior
- Athletics Facilities Interior

#### Contact for Equipment:
Contact FASS Purchasing to get equipment quote based on changing prices.
1. OFFICE AND ACADEMIC BUILDING EXTERIOR ZERO WASTE COLLECTION

**Design of facilities that involve storage and/or disposal of industrial and/or special materials, chemicals, waste, etc. will require a report and recommendation from Facilities EH&S.**

a. All Zero Waste collection equipment to be determined and located with the UO Zero Waste Program by 100% DD.

b. Collection shall be sited alongside building garbage collection whenever possible and applicable.

c. Additional loading dock requirements may be applied based upon project, program, scope, etc.

d. Office and Academic Buildings require the following at a minimum:
   - Concrete or asphalt pad for siting of a 3 yard cardboard dumpster and a 3-yard garbage dumpster (TBD by Garbage Services)
   - Recycling collection/staging area in the form of a weather-protected loading dock, an enclosed shed, or a covered enclosure. Size must be sufficient to hold 6 barrels that are 55-gallon size (TBD by UO Zero Waste Program).
   - Compost collection/staging area in the form of a weather-protected loading dock, an enclosed shed, or a covered enclosure. Size must be sufficient to hold 2 roll carts that are 96-gallon size (TBD by UO Zero Waste Program).
   - Room for other specialized collection as needed by building, minimum 1 96-gallon roll cart
   - Service vehicle parking or dock space sufficient for a large step-van with tailgate

**Building Exterior Zero Waste Equipment:**

- Cardboard Recycling Dumpster
  - Provided through cardboard recycling contract. Sizes vary by building size, from 1-yard to 4-yard capacity
  - Siting/applications: All campus buildings and residential areas
  - Signage by UO Zero Waste Program

- 55-gallon plastic barrels
  - For loading dock staging areas
  - Provided by UO Zero Waste Program
  - Siting: Various
  - Signage by the UO Zero Waste Program
  - Dimensions: h 37” x dia. 22”
2. **ATHLETIC FACILITIES EXTERIOR COLLECTION**

a. Athletic Facilities, as an auxiliary, to be in synch with the rest of the campus system, is recommended the following for zero waste implementation:

- PDO (Public Drop-Off’s) and/or recycling shed at all major entrances and exits for collection of bottles, cans, and paper
- Concrete or asphalt pads for cardboard and garbage dumpsters (TBD by Athletics)
- As needed, consult with UO Zero Waste Program to determine siting and collection system for materials recovery to stay in synch with UO Zero Waste Program

**Recommended Athletic Facility Zero Waste Equipment:**

- **Public Drop Off (PDO) recycling shed – 4-part**
  - Mfg./Supplier: Wastequip, Albany, OR
  - Part No: Contact Wastequip.
  - Holds four 14-gallon inserts (see item below)
  - Siting/applications: Campus-wide outdoor public, high-traffic pedestrian areas
  - Signage by the UO Zero Waste Program
  - Finish: UO Green
  - Dimensions: h: 50” x w 36” x d: 24”

- **Cardboard Recycling Dumpster**
  - Provided through cardboard recycling contract. Sizes vary by building size, from 1-yard to 4-yard capacity
  - Siting/applications: All campus buildings and residential areas
  - Signage by UO Zero Waste Program
3. **RESIDENCE HALLS EXTERIOR COLLECTION**
   
a. Residence Halls require the following at a minimum:
   - Zero waste staging area in the form of a weather-protected loading dock or a covered enclosure. Size must be sufficient to hold 12 barrels that are 55-gallon size per residence hall
   - Service vehicle parking or dock space sufficient for a large step-van
   - The following exterior collection areas are required for centralizing resident materials:
     - Exterior resident zero waste collection areas for each major wing of a residence hall in the form of a covered enclosure or an area sufficient to hold 8 barrels that are a 55-gallon size with domed lids
     - The use of 2- and 4-part sheds for Residence Hall exterior public collection is preferred
     - One 3-yard cardboard dumpster
     - One 3-yard garbage dumpster (TBD by Garbage Services)
   - Concrete or asphalt pad for siting of any additional 3 yard cardboard dumpster and 3-yard garbage dumpsters
   - Any kitchen area operating within a Residence Hall complex requires an additional recycling staging area separate from recycling collection sites used by Residence Hall residents. Site must be sufficient to hold 12 barrels that are 55-gallon size and a 3-yard cardboard dumpster.
   - Any kitchen area within the Residence Hall/Housing complex (including Catering), require an additional compost staging area. The site must be sufficient to hold 6 roll carts that are a 96-gallon size and 8 roll carts that are 32-gallon.

**Residence Hall Exterior Zero Waste Equipment:**

- 55-gallon plastic barrels
  - For loading dock staging areas
  - Provided by UO Zero Waste Program
  - Siting: Various
  - Signage by the UO Zero Waste Program
  - Dimensions: h 37” x dia. 22”

- Domed lids
  - For 55-gallon plastic barrels
  - Manufacturer/Supplier: Recycle Away, LLC
  - Part Number: RC-55
  - Siting: Various
  - Signage by the UO Zero Waste Program
  - Dimensions: h 11.5” x dia. 25”
**Section 11 80 00 – Collection & Disposal Equipment continued**

**Building Exterior Zero Waste Collection (continued)**

- 50-gallon fiber barrels
  - i. For loading dock staging areas
  - ii. Provided by UO Zero Waste Program
  - iii. Siting: Various
  - iv. Signage by the UO Zero Waste Program
  - v. Dimensions: h 38.5” x dia. 22”

- Cardboard Recycling Dumpster
  - i. Provided through cardboard recycling contract. Sizes vary by building size, from 1-yard to 4-yard capacity
  - ii. Siting/applications: All campus buildings and residential areas
  - iii. Signage by UO Zero Waste Program

- 96-Gallon & 32-Gallon Roll Carts
  - i. For centralized building collection
  - ii. Manufacturer: Toter Inc.
  - iii. Part Number: EVR® II
  - iv. Siting/applications: Various
  - v. Signage by UO Zero Waste Program
  - vi. Finish: Brown, green or black (varies by size)
  - vii. Dimensions: 32 gal - h 37” x w 25” x d 25”

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**4. FAMILY HOUSING AND UNIVERSITY APARTMENTS EXTERIOR COLLECTION**

**a. Off-campus Apartment Units/Family Housing Complexes:**

- Shall be equipped with complete, self-contained recycling sites (may or may not include compost), preferably in covered enclosures or designated areas with 55-gallon barrels and domed lids.
- One recycling site for each 15-20 apartments; units or apartments configured in a sprawling layout could require a greater number of sites per unit (TBD by UO Zero Waste Program)
- Each site consists of the following (TBD by UO Zero Waste Program):
  - i. One 4-part PDO with 14-gallon curbside inserts and one 4-part Recycling Shed with 55-gallon barrels OR;
  - ii. 55-gallon barrels with domed lids, number sited to be determined
  - iii. One 3-yard cardboard dumpster
  - iv. One 3-yard garbage dumpster (TBD by Garbage Services)
5. CAMPUS PUBLIC EXTERIOR AREA COLLECTION

The Zero Waste campus standard is no stand-alone garbage receptacles. For all campus public exterior areas, as is possible, pair garbage receptacles with zero waste collection unit. If not possible, at a minimum require outside zero waste collection as follows:

- Require a Public Drop Off Shed (PDO) on high traffic areas and gathering spots.
- One or more PDO’s shall be sited at the following locations:
  - Established entries to and exits from campus
  - Major pedestrian intersections throughout campus
  - Well-used pedestrian walkways and traffic pattern locations
  - Athletic facilities
  - Erb Memorial Union and Housing facilities exterior
  - Each PDO site shall be paired with least one garbage receptacle
Section 11 80 00 – Collection & Disposal Equipment continued
Building Exterior Zero Waste Collection (continued)

Campus Public Exterior Zero Waste Equipment:

- Public Drop Off (PDO) recycling shed – 4-part
  i. Mfg./Supplier: Wastequip, Albany, OR
  ii. Part No: Contact Wastquip.
  iii. Holds four 14-gallon inserts (see item below)
  iv. Siting/applications: Campus-wide outdoor public, high-traffic pedestrian areas
  v. Signage by the UO Zero Waste Program
  vi. Finish: UO Green
  vii. Dimensions: h 50” x w 36” x d 24”

- 14-gallon Curbside Recycling Bins
  i. Inserts for 4-part recycle shed
  ii. Mfg./Supplier: Busch Systems International, Barrie, Ontario, Canada
  iii. Part Number: BC2000, color Kelly Green, stamped ‘We Recycle’
  iv. Siting/applications: Inserts for 4-part PDO-style DeWald units, above (Units used are ordered in kelly green)
  v. Signage by supplier
  vi. Dimensions: h 13.5” x w 20” x d 16”

- Recycle Shed 4-barrel
  i. Mfg./Supplier: Wastquip, Albany, OR
  ii. Part No: Contact Wastquip.
  iii. Holds four 55-gallon barrels
  iv. Siting/applications: Campus-wide outdoor public, high-traffic pedestrian areas and other campus special-application areas
  v. Signage by the UO Zero Waste Program
  vi. Finish: UO Green
  vii. Dimensions: h 52.5” x w 106” x d 31.5”

- Recycle Shed -Combo 4-part and 2-barrel
  i. Mfg./Supplier: Wastquip, Albany, OR
  ii. Part No: Contact Wastquip.
  iii. Holds four 14-gallon inserts and two 55-gallon barrels
  iv. Siting/applications: Campus-wide outdoor public, high-traffic pedestrian areas and other campus special-application areas
  v. Signage by the UO Zero Waste Program
  vi. Finish: UO Green
  vii. Dimensions: h 51” x w 86.5” x d 28”
1. OFFICE AND ACADEMIC BUILDING INTERIOR COLLECTION

a. Interior waste management equipment and siting of same are to be consistent with a “Zero Waste” approach to waste management. Landfill materials (formerly referred to as waste, trash, garbage), recyclables, and compostables, to be collected via all-inclusive waste management stations that may or may not include compostables (see below and referred to as “Zero Waste” sites). Ideally, zero waste stations with compost would be sited at least one per floor in high traffic areas and in department kitchens. Other public sites can be sited without compost. Ideally, zero waste stations would be located centrally to serve 10 work stations or offices; within sight of classrooms. At least one zero waste station ideally with compost, would be sited at all entrances and exits.

With the zero waste deskside system (see below), it is recommended that all zero waste stations be implemented with a zero waste desksider system where the occupant centralizes all recycling, compost and landfill to the nearest zero waste station. With this system custodians will need to be notified that occupants are utilizing the zero waste system and will be centralizing all discards (including garbage) to zero waste stations.

Through this process, a project must work with building, custodial and zero waste staff to implement this system.

b. Zero waste stations are to be determined and located in consultation with the UO Zero Waste Program by 100% DD. Recommended siting for zero waste stations is one per floor with additional units with compost near entrances and exits. It is also recommended that zero waste desksiders be implemented to all building occupants.

c. The following represent the standard waste management approach for interior spaces:

- A full public zero waste site will consist of a 4-part collection system for: Paper; Cartons/Glass/Metal/Plastic; Compostable materials; and landfill materials (trash) to be sited in a food producing or food collection area such as department break areas and kitchens; Steel enclosures and foot-pedal compost bins are recommended for these areas
- Other 3-part zero waste stations without compost can be sited in non-food producing areas
- One 3-part, fire-rated, public zero waste site for each major wing of each floor of a building
- One 3-part, fire-rated, public zero waste site for each 4 to 6 classrooms
- Additional receptacles, bags and racks recommended, for copy room and/or mail room
- Additional receptacles, bags and racks recommended, for mailroom bulk mail collections
- Additional sites as dictated by occupant needs
- For fire-rated sites, preference is given to Max-R units or Bag-it Steel Enclosures (see below)

CASEWORK

Over the past, casework has been utilized in place of steel enclosures or zero waste units. Casework is no longer acceptable as a standard. Standards have been set to create consistency of equipment and have been identified due to servicing requirements. It is vital that these standards are consistent and meet the program servicing and collection requirements. In order to maintain that consistency, casework is no longer acceptable for zero waste equipment.

As casework has been employed to recess equipment into a wall, the standard is for the project to make a recess into a wall that will accommodate one of the standard Max-R units identified.
Office and Academic Building Interior PUBLIC Egress Zero Waste Equipment:

- 3- or 4-part Max-R Zero Waste Stations
  This is the standard, stations can be customized and size reduced for low-traffic areas that do not generate compost
  i. Manufacturer – Max-R, Sussex, WI
  ii. Part Number: Oxford Collection, part number varies by configuration and color
  iii. Standard: 4-part unit for Paper, Cartons/Glass/Metal/Plastic, Compostables, and Landfill/Trash
  iv. Options: Custom options include number of partitions (3-, 4-part), height and materials
  v. Colors: Various, but preference for green panels with brown trim
  vi. Siting applications: Fire-rated areas
  vii. Dimensions 3-part - h 50.5” x w 39.5” x d 24”
       4-part - h 50.5” x w 58” x d 24”

NOTE: **Project may utilize any type of Max-R unit as long as the holes, signage and logo are configured as noted above: [http://www.max-r.net/](http://www.max-r.net/)** Non-standard Max-R units will not receive special pricing. Discounted pricing is only available on above units.

- Bag-it Original Hanging Bag Recycling System
  i. Mfg./supplier: The Bag Connection, Dundee, OR
  ii. Part description:
     - Blue 14-gallon paper recycling bag
     - White 14-gallon paper recycling bag
     - Green 14-gallon paper recycling bag
     - 14-gallon leak-proof bottle/can recycling bag (blue)
     - Single bag free-standing rack
     - Double bag freestanding rack
     - Green 20-gallon leak-proof bottle/can recycling bag
  iii. Siting applications: Non-fire-rated sites for Paper & Cartons/Glass/Metal/Plastic collections; office suites, copy rooms, etc.
  iv. Dimensions: h 29” x w 20” x d 15.5”

Office and Academic Building NON-PUBLIC Egress Equipment:

- Bagit Steel Enclosures for modified zero waste system in small spaces
  i. Mfg./supplier: The Bag Connection, Dundee, OR
  ii. Part Number: N/A
  iii. Installed in multiples with Bagit Original bags
  iv. Siting/Applications: Public egress areas
  v. Signage by the UO Zero Waste Program
  vi. Finish: Any color
  vii. Dimensions: h 35.5” x w 18” x d 12”

Contact FASS purchasing for specialty pricing on these units.

NOTE: **Project may utilize any type of Max-R unit as long as the holes, signage and logo are configured as noted above: [http://www.max-r.net/](http://www.max-r.net/)** Non-standard Max-R units will not receive special pricing. Discounted pricing is only available on above units.
Section 11 80 00 – Collection & Disposal Equipment continued

Building Interior Zero Waste Collection (continued)

*This system indicates that user will centralize all discard materials generated in office setting. With this zero waste desksider, custodians will not service desk side garbage. This is a critical piece of a zero waste building and is highly recommended for all campus buildings.

- Deskside Bins
  i. Mfg./supplier: Busch Systems International, Barrie, Ontario, Canada
  ii. Part number: BC1001-6-gallon Desksider, color Kelly Green, stamped 'We Recycle', BC 1500-23, BC 1200-23, BC 1500L-23
  iii. Siting/applications: Zero Waste Desksider to be serviced by user
  iv. Signage by UO Zero Waste Program
  v. Dimensions: h 7” x w 14.5” x d 11”

- 3-Tiered Boxes
  i. Supplied by UO Zero Waste Program
  ii. Signage by the UO Zero Waste Program
  iii. Siting/Applications: Office desks
  iv. Dimensions: h 15.5” x w 12.5” x d 13.5”

2. ATHLETIC FACILITIES INTERIOR COLLECTION
   a. (see Office And Academic Building Interior Zero Waste Collection)

3. SPECIAL-USE BUILDING INTERIOR COLLECTION
   a. Special-Use Buildings
   Special-use buildings such as the Erb Memorial Union, Recreation Center, etc. require area- specific zero waste equipment and staging areas. These types of buildings have low permanent occupancy and high transient occupancy. At a minimum, the following will generally be required in these areas:
      • A generous allotment of collection equipment per occupant or user
      • Allowance for a greater variety of materials
      • Extensive staging and/or loading dock equipment storage areas
      • Generous cardboard collection sited with garbage dumpsters
      • Allowances for the collection of special materials (bulk mail, CD's, arts and crafts recycling, etc.)
      • A secure room or space for the storage of UO Zero Waste Program service equipment (hand-trucks, PPE, barrels, etc.) and a small crew office with telephone and data hook-ups as determined by project and level of service required
Section 11 80 00 – Collection & Disposal Equipment continued
Building Interior Zero Waste Collection (continued)

b. Bathrooms
The standard for bathrooms is to provide only garbage service because of the potential for biohazardous material contamination. Paper towels cannot be composted from bathroom areas.

c. Cafes
There are two waste generation areas in cafes, behind the counter and in the public space. The standard for behind the counter is to include space for collection of Paper, Cartons/Glass/Metal/Plastic, and compost (32-gallon roll carts). Work with UO Zero Waste Program to determine any additional needs for outside 32- or 96-gallon roll carts for cafes to use for overflow.

The standard for the public space is to include a collection for Paper, Cartons/Glass/Metal/Plastic, and compost. The public space collection may be a Max-R station, built-in cabinets, step-on bin for compost collection, and/or steel enclosures.

d. Classrooms
The zero waste standard for classrooms is to eliminate any discard/garbage collection in classrooms. Site zero waste stations such that 4-6 classrooms are within close visual and physical proximity for convenient access to centralized zero waste stations.

e. Common Spaces/Lobbies/Reception Areas
Site zero waste stations in common spaces which are often heavily used by individuals and groups.

f. Event Spaces
Campus events are held in multiple locations throughout campus. Installing a permanent set-up for events is recommended, including: Compost, Paper, Cartons/Glass/Metal/Plastic and Landfill. If there is not room for a permanent set-up, another option is for the building to attain a collection of portable event bins for use during campus events. The UO Zero Waste Program will provide outside building collection to centralize this material and provide free servicing of centralized zero waste event material.

Upon request, the UO Zero Waste Program will provide Zero Waste event services as a fee, paid for by the event, if existing building services are not available. Incorporating zero waste into all campus events and space use is highly encouraged as garbage service is already included in space rentals and reservations. The UO Zero Waste Program utilizes the event zero waste collection containers (p. 15) for requested events.

g. Laboratories
Laboratories service their own materials to central zero waste stations in buildings. Based upon laboratory protocol, built-in cabinets are highly recommended. Built-in cabinets with casework inserts or hanging bags are recommended for ease of transport to central locations. Besides regular recycling of Paper and Cartons/Glass/Metal/Plastic, labs generate cardboard (which is the user responsibility to service to outside cardboard collection) and petri dishes. This is to be determined strictly by the labs. It is highly recommended that discard management is addressed with users during the renovation or new construction process to ensure proper storage of discards while maximizing waste diversion and recovery.

h. Mail/Copy/Printer Rooms
The standard for mail/copy/printer rooms is to have hanging bags and racks for Paper. Another option is to add a hanging bag and rack for Cartons/Glass/Metal/Plastic.
Section 11 80 00 – Collection & Disposal Equipment continued
Building Interior Zero Waste Collection (continued)

i. Small Spaces
Work with UO Zero Waste Program to determine solutions for small spaces that can only accommodate small (i.e. 5-gallon collection) containers. Due to service frequency and waste generation, 14-gallon bags/galvanized cans are the smallest size that are serviceable by the UO Zero Waste Program.

j. Studios
Depending upon design, studios typically are small spaces that utilize hanging bags and racks for material collection. With larger studios, several hanging bags and racks are stationed throughout the studio. As with laboratories, the standard is for studios to have a designated discard management site within the studio to reduce clutter, adhere to fire code and ensure proper service of materials. With moveable equipment, it is difficult for the material to be serviced since often equipment is moved around the studio.

The standard for studios is to have a Max-R station along a wall or recessed into a wall.

Special-Use Building Interior Zero Waste Equipment:

- 3- or 4-part Max-R Zero Waste Stations
  This is the standard, stations can be customized and size reduced for low-traffic areas that do not generate compost
  i. Manufacturer – Max-R, Sussex, WI
  ii. Part Number: Oxford Collection, part number varies by configuration and color
  iii. Standard: 4-part unit for Paper, Cartons/Glass/Metal/Plastic, Compostables, and Landfill/Trash
  iv. Options: Custom options include number of partitions (3-, 4-part), height and materials
  v. Colors: Various, but preference for green panels with brown trim
  vi. Siting applications: Fire-rated areas
  vii. Dimensions 3-part - h 50.5” x w 39.5” x d 24”
      4-part - h 50.5” x w 58” x d 24”

NOTE: **Project may utilize any type of Max-R unit as long as the holes, signage and logo are configured as noted above: http://www.max-r.net/ Non-standard Max-R units will not receive special pricing. Discounted pricing is only available on above units.

- Bagit Steel Enclosures for modified zero waste system in small spaces
  i. Mfg./supplier: The Bag Connection, Dundee, OR
  ii. Part Number: N/A
  iii. Installed in multiples with Bagit Original bags
  iv. Siting/Applications: Public egress areas
  v. Signage by the UO Zero Waste Program
  vi. Finish: any color
  vii. Dimensions: h 35.5” x w 18” x d 12”

Contact FASS purchasing for specialty pricing on these units
• Bag-it Original Hanging Bag Recycling System  
  i. Mfg./supplier: The Bag Connection, Dundee, OR  
  ii. Part description:  
     – Blue 14-gallon paper recycling bag  
     – White 14-gallon paper recycling bag  
     – Green 14-gallon paper recycling bag  
     – 14-gallon leak-proof bottle/can recycling bag (blue)  
     – Single bag free-standing rack  
     – Double bag freestanding rack  
     – Green 20-gallon leak-proof bottle/can recycling bag  
       iii. Siting applications: Non-fire-rated sites for Paper & Cartons/Glass/Metal/Plastic collections; office suites, copy rooms, etc.  
       iv. Dimensions: h 29” x w 20” x d 15.5”

• 23-Gallon Step-On Compost Collection Bin  
  i. For public compostable collection  
  ii. Manufacturer: Tough Guy  
  iii. Part Number: 6GAK3  
  iv. Siting/applications: Cafe public areas and department kitchens/break rooms  
  v. Signage by UO Zero Waste Program  
  vi. Finish: White or brown  
  vii. Dimensions: h 31.5” x w 16.5” x d 16”

• 96-Gallon & 32-Gallon Roll Carts  
  i. For centralized building collection  
  ii. Manufacturer: Toter Inc.  
  iii. Part Number: EVR® II  
  iv. Siting/applications: Various  
  v. Signage by UO Zero Waste Program  
  vi. Finish: Brown, green or black (varies by size)  
  v. Dimensions: 95 gal - h 46.5” x w 29” x d 35”  
     32 gal - h 37” x w 25” x d 25”

• Event Zero Waste Collection Containers  
  i. Manufacturer: Rubbermaid  
  ii. Siting/applications: For attendee use at events  
  iii. Signage by the UO Zero Waste Program  
  iv. Finish: Yellow
Section 11 80 00 – Collection & Disposal Equipment continued
Building Interior Zero Waste Collection (continued)

4. RESIDENCE HALL INTERIOR COLLECTION

   a. Residence Halls: The following represent general guidelines:
      • Residence Halls generally require residents to service in-room discards to exterior locations.
      • One full service site plus landfill receptacle per major wing of each residence hall located in
        basements or exterior covered enclosures. The use of 2- and 4-part sheds for Residence Hall exterior
        public collection is preferred (see section 3-F). Site capacities will vary from 6 to 12 barrels.
      • One residence hall in-room bin per resident room
      • Paper and Cartons/Glass/Metal/Plastic recycling for each service center
      • Receptacles for mail area collection of bulk mail
      • A secure room or space for the storage of UO Zero Waste Program service equipment (hand
        trucks, PPE, barrels, etc.)
      • One cardboard dumpster per external covered enclosure

Residence Hall Interior Zero Waste Equipment:

   • Residence Hall In-Room Bins
     i. Individual bins for residence hall occupants.
     ii. Manufacturer/Supplier: Busch Systems International, Barrie, Ontario, Canada
     iii. Part Number: BC1000 6-gallon Desksider, color Kelly Green, stamped ‘We Recycle’
     iv. Siting/applications: One per each residence hall Room.
     v. Signage by supplier

5. FAMILY HOUSING AND UNIVERSITY APARTMENTS INTERIOR COLLECTION

   • As Family Housing and University Apartments require residents to centralize waste to exterior
     locations, as with the Residence Halls, it is highly recommended that each Family Housing and
     Apartment unit, are equipped with a recycling and composting collection container such that residents
     can participate in zero waste management that is offered in all exterior locations.

   • Apartment Unit Recycle Bins
     i. For individual or family recycling collection
     ii. Manufacturer: Busch Systems
     iii. Part Number: Multi recycler 6-gallon nesting bins
     iv. Siting/applications: One per each apartment unit

   • Individual Compost Buckets
     i. For individual or family compost collection
     ii. Manufacturer: Busch Systems
     iii. Part Number: KC2000 Kitchen Composter
     iv. Siting/applications: One per each apartment unit
Section 11 80 00 – Collection & Disposal Equipment continued

COMPOST COLLECTION

1. OFFICE AND ACADEMIC BUILDING COMPOST COLLECTION

   a. The following represent the standard approach for interior space compost collection:
      • All interior equipment should be in a zero waste station, casework, or in steel enclosures (see
        section 4, p. 7-9, for interior zero waste public equipment)
      • Any public composting, interior or exterior, should always be co-located with recycling and
        landfill collection
      • Exterior building collection requires a minimum of one 96-gallon or three 32-gallon roll carts
        sited in the same exterior location as garbage and cardboard dumpsters, or interior room with direct
        access to building egress and service vehicle parking
      • One individual compost unit per building occupant requesting voluntary participation in the
        compost program

Office and Academic Building Compost Collection Equipment:

   • 96-Gallon & 32-Gallon Roll Carts
     i. For centralized building collection
     ii. Manufacturer: Toter Inc.
     iii. Part Number: EVR® II
     iv. Siting/applications: Various
     v. Signage by UO Zero Waste Program
     vi. Finish: Brown, green or black (varies by size)
     v. Dimensions: 95 gal - h: 46.5 x w: 29 x d: 35 in
           32 gal - h: 37 x w: 25 x d: 25 in

   • Individual Compost Buckets
     i. For individual compost collection for faculty,
        staff and departments
     ii. Provided by UO Zero Waste Program
     iii. Signage by the UO Zero Waste Program

2. RESIDENCE HALLS COMPOST COLLECTION

   • Exterior building collection requires a minimum of one 96-gallon or three 32-gallon roll carts
     sited in the same exterior location as garbage and cardboard dumpsters, or interior room with direct
     access to building egress and service vehicle parking.

Residence Hall Compost Collection Equipment:

   • 96-Gallon & 32-Gallon Roll Carts
     i. For centralized building collection
     ii. Manufacturer: Toter Inc.
     iii. Part Number: EVR® II
     iv. Siting/applications: Various
     v. Signage by UO Zero Waste Program
     vi. Finish: Brown, green or black (varies by size)
     v. Dimensions: 95 gal - h: 46.5 x w: 29 x d: 35 in
           32 gal - h: 37 x w: 25 x d: 25 in
3. DINING FACILITIES COMPOST COLLECTION:
   - Public Sites: Post-consumer collection sites based upon dining hall service levels. Max-R units are standard and may be tailored to interior décor and established collection containers including custom-sized wall recesses for equipment.
   - Kitchen Interior Sites: Kitchen equipment for pre-consumer food composting as needed by staff and as dictated by space considerations. Ideally, a combination of 32-gallon roll carts and 5-gallon buckets co-located with landfill and recycling receptacles.
   - Kitchen Exterior Sites: Will utilize 96-gallon roll carts as detailed above; and will contribute loads in 32-gallon roll carts as needed

Dining Facility Compost Collection Equipment:

- 96-Gallon & 32-Gallon Roll Carts
  - i. For centralized building collection
  - ii. Manufacturer: Toter Inc.
  - iii. Part Number: EVR® II
  - iv. Siting/applications: Various
  - v. Signage by UO Zero Waste Program
  - vi. Finish: Brown, green or black (varies by size)
  - vi. Dimensions: 95 gal - h: 46.5 x w: 29 x d: 35 in
    32 gal - h: 37 x w: 25 x d: 25 in

- Collection Buckets
  - i. For food service work stations and small café-style food outlets
  - ii. Multi-purpose 4- or 5-gallon buckets as shown
  - iii. Signage by the UO Zero Waste Program

4. INTERIOR COMMON SPACES COMPOST COLLECTION
   - Post-consumer compost(ables) zero waste sites based upon area usage and proximity to food consumption areas-common spaces are often areas where users consume food
   - Casework inserts or 32-gallon roll carts are standard (see section 4, p. 7-9, for interior zero waste public equipment)
   - Equipment should be co-located with landfill and recycling receptacles

5. SPECIAL-USE BUILDING COMPOST COLLECTION
a. Satellite Cafes Compost Collection:
   - See special-use building interior collection (p. 12)

b. Multi-purpose and Non-standard Building Types and Usages: Need(s) will be determined on a case-by-case basis in keeping with similar determinations for zero waste service and equipment provisions.
UNIVERSITY OF OREGON ON-CAMPUS ZERO WASTE SIGNAGE

In order to maintain a complete zero waste system, please work with the UO Zero Waste Program on establishing collection categories for sited areas. This includes utilizing consistent program signage.

Zero Waste station signs:

- **CARTONS**
  - GLASS
  - METAL
  - PLASTIC

- **PAPER**
  - OFFICE PAPER
  - NEWSPAPER
  - PAPERBOARD
  - MAGAZINES

- **COMPOST**
  - FOOD
  - PAPER FOODWARE (NAPKINS, PLATES, BOWLS)
  - ITEMS LABELED “COMPOSTABLE”

- **LANDFILL**
  - WRAPPERS
  - CHIP BAGS
  - OTHER

**CARDBOARD MUST BE SERVICED BY USERS TO LOADING DOCKS AS PER FIRE CODE**

- **DO NOT LEAVE CARDBOARD HERE**
  - RECYCLE FLATTENED CARDBOARD AT LOADING DOCK LOCATIONS

**SIGNAGE FOR OFF-CAMPUS LOCATIONS**

- **COMMINGLE RECYCLING**
  - PAPER
  - PLASTIC (BOTTLES, TUBS, JARS)
  - METAL CANS
  - CARDBOARD
  - NO CUPS, PLASTIC BAGS, GLASS, AEROSOLS CANS

- **GLASS**