

Add the following to Division 12. No text is being deleted as part of this revision, and the remainder of the Division is unchanged.

12 40 00 FURNISHINGS & ACCESSORIES

12 46 33 INTERIOR WASTE/RECYCLING & COMPOSTING STATIONS

.01 WASTE/RECYCLING STATIONS

A. Stations shall be provided in all new construction and major renovation projects at University Park and Commonwealth Campuses.

B. University recycling bin selection preference

Type 1 Receptacle: Built-in

Strategically located built-in units incorporating serviceable containers with liners shall be provided in all new construction and major renovation projects.

Type 2 Receptacle: Credenza


High profile locations such as historic buildings, administrative office suites and hospitality environments that cannot accommodate Type 1 Built-in station(s) should be equipped with custom made “credenza” stations with color and detailing to compliment the building’s interior.

Type 3 Receptacle: Cube

General purpose locations such as classroom building corridors and lobbies shall be equipped with “credenzas” or retrofit cube stations.

Type 4 Receptacle: Plastic

Plain plastic receptacles (blue “slim jim’s) are acceptable only in service areas such as copy rooms, kitchenettes, break rooms, or other “private” spaces.

Document	Version Date	Description
 Recycle Station Design Guideline.pdf	January 2012	Recycling and Composting Station Design Guidelines

C. Preferred manufacturer for Type 4 Receptacle: Plastic (or approved equal)

Rubbermaid Commercial Products LLC

3124 Valley Avenue

Winchester, VA 22601

Phone: 540-667-8700

Fax: 540-542-8770

www.rubbermaidcommercial.com

D. Contact the following Penn State University Employees for waste/recycling stations selection and location(s) during schematic design.

Campus Planning and Design

Kelly Harris, Landscape Architect

Email: kjh16@psu.edu

Phone: 814-865-8249

Central Support Services

Al Matyasovsky, Supervisor

Email: aem3@psu.edu


Phone: 814-863-471

.02 COMPOSTING STATIONS

A. Stations shall be provided in all new construction and major renovation projects at University Park and Commonwealth Campuses.

B. University composting station preferences

1. Because of the unique nature of the organic composting program it is recommended that compost stations have a distinctive color scheme to better distinguish them from other waste or recycling containers.
2. The compost stations will be fitted with solid lids and handles to mitigate potential odor and insect problems.

Document	Version Date	Description
 Recycle Station Design Guideline.pdf	January 2012	Recycling and Composting Station Design Guidelines

C. Contact the following Penn State University Employees for composting stations selection and location(s) during schematic design.

Campus Planning and Design

Kelly Harris, Landscape Architect

Email: kjh16@psu.edu

Phone: 814-865-8249

Central Support Services

Al Matyasovsky, Supervisor

Email: aem3@psu.edu

Phone: 814-863-4719

END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) Add recycling and compost bin requirements to the published Design & Construction Standards.

Waste and Recycling Station Design Guidelines

PURPOSE

To advance the progress of Penn State's Sustainability Strategic Plan.

To facilitate the efficient and safe collection of refuse, recyclable, and compostable commodities by leveraging institutional knowledge of maintenance and operations procedures.

To increase the recycling participation rate of building users through consistent graphic treatment on signage.

To reduce operating costs to the university.

To improve aesthetic quality of interior spaces by providing clean, consolidated, well designed, and conveniently located receptacles.

HOW TO USE

This document is intended as a guideline for the design of a series of recycling station types. The designs meet the safety, operational, and aesthetic needs of the university.

Consultants to the university are strongly encouraged to plan for recycling station location and design at the earliest possible time in the process of delivering a building design.

RESOURCES

OPP staff responsible for administering the waste and recycling program include:

Al Matyasovsky - aem3@psu.edu

Kelly Harris - kjh16@psu.edu

For more information about sustainability at Penn State visit www.green.psu.edu

Type 1 Receptacle - **Built-in**

APPLICATION

Built-in stations to be designed and bid with other casework in new construction or major renovation projects.

All public spaces to be equipped with built-in waste recycling stations. Coordinate location(s) with OPP staff.

DESIGN REQUIREMENTS

Design, materials and finishes of station to match or complement the interior decor.

Stations include (7) commodities in the following order left to right when facing the station: Organic Waste/Compost, Refuse (Landfill), Mixed Paper, Metal Cans, Newspaper, Glass, and Plastic.

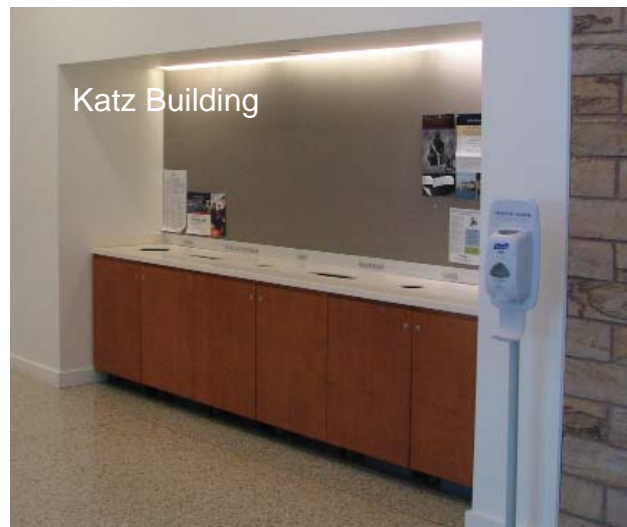
Provide (6) six standard commodity openings sized per this document and in the correct order. Organic Waste/Compost receptacle to have an interior partition wall and solid hinged top lid to mitigate the spread of odors.

Top surface material to be determined by architect.

Station to have hinged front door panel for container access.

Wall surface area above each opening must be allocated for placement of standard signage. Signs to be provided by OPP.

Commercially manufactured rigid plastic liners with height not to exceed 30" and capacity at or near 23 gallons must be accommodated.



For illustration purposes only. Newly constructed stations must comply with the requirements for design, opening configuration and signage.

Type 2 Receptacle - Credenza

APPLICATION

In high profile public spaces that cannot accommodate built-in station(s), a credenza unit may be acceptable.

Coordinate location(s) with OPP staff.

DESIGN REQUIREMENTS

Design, materials and finishes of station to match or complement the interior decor.

Stations include (7) commodities in the following order left to right when facing the station:
Organic Waste/Compost, Refuse (Landfill), Mixed Paper, Metal Cans, Newspaper, Glass, and Plastic.

Provide (6) six standard commodity openings sized per this document and in the correct order.
Organic Waste/Compost receptacle to have an interior partition wall and solid hinged top lid to mitigate the spread of odors.

Top surface material to be determined by architect.

Station may have hinged front door panel for container access or movable with open back for access.

Wall surface area above each opening must be allocated for placement of standard signage. Signs to be provided by OPP.

Commercially manufactured rigid plastic liners with height not to exceed 30" and capacity at or near 23 gallons must be accommodated.



For illustration purposes only. Newly constructed stations must comply with the requirements for design, opening configuration and signage.

Type 3 Receptacle - Cube

APPLICATION

In locations where built-ins or credenzas are deemed by OPP to be unnecessary, the option of commercially manufactured receptacles may be considered.

DESIGN REQUIREMENTS

Design, materials and finishes of station to match or complement the interior decor. Submit detailed specification information including size and color of proposed receptacle to OPP for review and approval. Customization of stock designs may be required to meet university requirements.

Note: Height of receptacle cannot exceed 30".

Hinged top or side panel access are acceptable

Receptacle must accommodate a rigid plastic liner

No interior bag retainer bands will be accepted

Top opening size and configuration must comply with university standards

Stations include (7) commodities in the following order left to right when facing the station:
Organic Waste/Compost, Refuse (Landfill), Mixed Paper, Metal Cans, Newspaper, Glass, and Plastic.

Provide (6) six standard commodity openings sized per this document and in the correct order.

Wall surface area above each opening must be allocated for placement of standard signage. Signs to be provided by OPP.

Commercially manufactured rigid plastic liners with height not to exceed 30" and capacity at or near 23 gallons must be accommodated.



Type 4 Receptacle - Plastic

APPLICATION

In service areas, kitchens, and break rooms or in locations where less than a full seven commodity station is required, the use of plastic receptacles may be acceptable.

DESIGN REQUIREMENTS

The 23 gallon Slim Jim, as manufactured by Rubbermaid Commercial Products, is the university standard. Receptacles manufactured by others will be considered if size and capacity requirements are met.

Specification:

20" wide x 11" deep x 30"high

23 gallon capacity

Refuse and recycle commodities - blue (no lid)

Compost unit - green (with hinged lid)

Containers to be free of symbols or logos

Full stations include (7) commodities in the following order left to right when facing the station:
Organic Waste/Compost, Refuse (Landfill), Mixed Paper, Metal Cans, Newspaper, Glass, and Plastic.
Partial stations to be determined by OPP staff.

Wall surface area above each receptacle must be allocated for placement of standard signage. Signs to be provided by OPP.



Standard Signage

Organic Waste/Compost

Food waste
Soiled or wet paper
Paper napkins, tissues, and towels
Compostable plates, cups, and utensils
Pizza boxes



Recyclable material
Polystyrene (Styrofoam)
Sharps

 recycling@psu.edu
green.psu.edu

Refuse (Landfill)

Non-recyclable refuse
Non-compostable refuse
Non-reusable refuse



Reusable material
Recyclable material
Compostable material

 recycling@psu.edu
green.psu.edu

Mixed Paper

Envelopes
File folders (no metal clips)
Copy paper (colors ok)
Magazines (glossy ok)
Bound brochures
Paperboard packaging
Hard cover books



Wax paper
Food wrappers
Soiled or wet paper
Paper clips

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Metal Cans

Aluminum soda cans
Bi-metal (tin) cans
Aerosol cans (empty)
Paint cans (empty)
Aluminum foil (clean and dry)



 recycling@psu.edu
green.psu.edu

Newspaper

Newspaper
Phone books



 recycling@psu.edu
green.psu.edu

Glass

Food and beverage containers
Clear, green, brown (ok)



Light bulbs
Laboratory glass

 recycling@psu.edu
green.psu.edu

Plastic

Plastic bottles #1 thru #7
Bubble wrap
Packing pillows
Plastic grocery bags




 recycling@psu.edu
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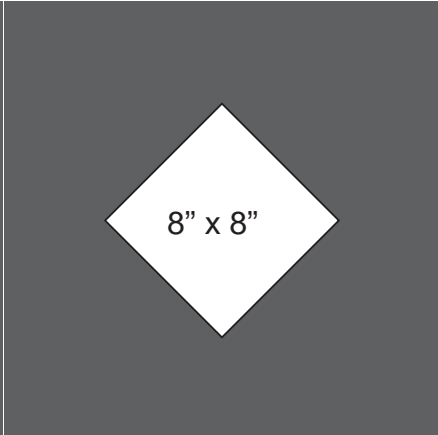
10" x 10" sign mounted to wall above receptacle.
Adhesive backed sign substrate with printed vinyl graphic
requires no mounting hardware.
Signs provided by OPP.

Standard Openings

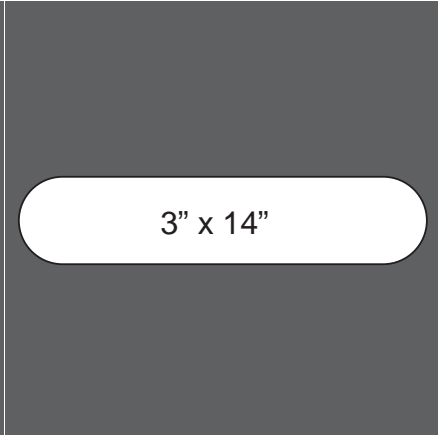
Organic Waste / Compost



Refuse (Landfill)



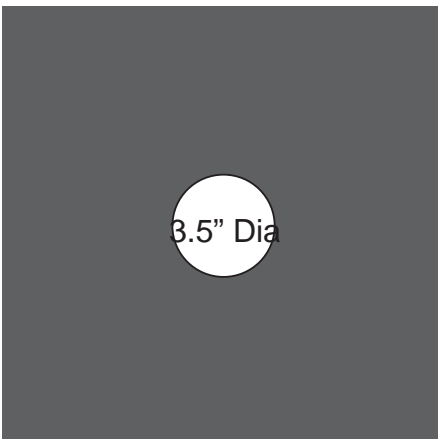
Mixed Paper



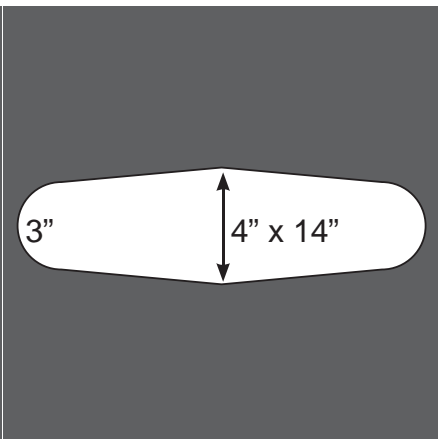
Lid mounted pull on
compost receptacle



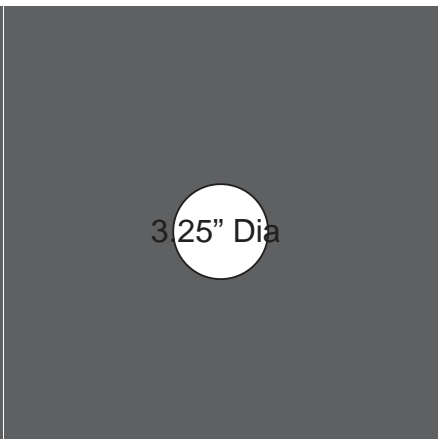
Metal Cans



Newspaper



Glass



Plastic

