

## SECTION 15: SOLID WASTE DESIGN

### 15-1 INTRODUCTION

These Design Standards shall govern the engineering design of all solid waste (trash) enclosures intended for service by the City of Roseville.

### 15-2 CURRENT STANDARDS

Pertinent and current requirements of the following agencies or standards shall be complied with. In case of conflicting design criteria, standards set forth by the City of Roseville, as established herein, shall govern:

- A. Construction Standards of the City of Roseville, Department of Development Services Department.

### 15-3 DESIGN CRITERIA

The intent of these criteria is to provide for the serviceability of trash enclosures for commercial and multi-family areas.

- A. **General:** A standard trash enclosure must be provided for each building or business. If a building is to have more than one solid waste customer, then a standard trash enclosure must be provided for each customer. Projects with more than one enclosure must number the enclosures and provide a map of the project showing the location of the enclosures. The type and number of the enclosures will be determined by their intended use (i.e., restaurant, office building, shopping center or small business).

Businesses served by compactors shall have an additional enclosure for recycling.

- B. **Walls:** The trash enclosure shall have walls on three sides. Walls must be six feet in height and shall be constructed as shown on Detail SW-1 or Detail SW-2. Structure calculations required for enclosure design.
- C. **Gates:** Gates are required on any trash enclosure in line of sight of the public. Gates shall be constructed to provide a minimum 12' opening and shall align with the wall of the enclosure as shown on Detail SW-1. Gates must be designed to open from the front of the enclosure and shall be equipped to be held in an open position with pins in the ground while the dumpster is being serviced. The pin hole shall be a 2 inch pipe, 6 inches deep flush to the ground. Bollards must be installed to prevent gates from opening into any parking spaces or adjacent structures.
- D. **Vehicle Approach and Floor:** The vehicle approach apron and the enclosure floor shall be reinforced concrete a minimum of 6 inches thick. Rebar shall be #4 at 12" on center. Both the approach and the enclosure floor shall be level.

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- E. Signs and Striping:** “No parking” signs shall be placed on the gates as well as painted on the approach area per details.
- F. Location:** The enclosure shall be located with the most direct path of travel and access for refuse vehicles. Path of travel shall have minimal conflict with on-site vehicle and pedestrian circulation patterns. Consideration should also be made on increasing the structural section of the on-site pavement along the path of travel of refuse vehicles. The path of travel requires any over head structures to be a minimum of 16’ above grade. The trash enclosure shall be located to allow refuse vehicles a straight approach to the enclosure. A 65-foot clear area in front of the enclosure is required. Every effort should be made to prevent locating trash enclosures under overhead power lines. When it is not possible to avoid overhead power lines, then overhead power lines over the bin dumping areas must be a minimum of 26’ above grade. The enclosure area shall be located away from service areas and “Loading” zones. Unobstructed access to the trash enclosure shall be provided.
- G. Path of Travel:** The improvement plans shall provide a map showing the proposed path of travel for refuse vehicles to and from the trash enclosure originating at the public roadway. The inside turning radius of the refuse/recycle vehicle is 25-feet and the outside radius is 45-feet.
- H. Back-Up Lengths:** Back-up lengths are limited to no more than 100 feet measured from the gate entry of the trash enclosure.
- I. Frontloading Compactor Enclosure:** A frontloading compactor enclosure shall be used by businesses in lieu of the standard trash enclosure. If so desired the approved Frontloading Compactor models shall be Harmony- Power Packer 200 (P200), Marathon’s Untouchable VIP (Vert I Pack), or approved equal.
- J. Detail Drawings:** Details not covered by the Construction Standard Detail sheets shall be shown on the plans.
- K. Organics:** A separate enclosure for organics is required for all apartments, senior living and buildings with a potential food service. Organics enclosure shall be located within 100’ of building. Organics bins will be rolled out for pick up.
1. For the organics truck, the inside turning radius is 30-feet and the outside turning radius is 50-feet.
  2. No back up distance allowed for the organics truck.