Solid Waste, Recyclable Materials & Compostables Enclosure Standards

January 2022

Solid Waste & Recycling Division
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CITY OF NAPA ORDINANCE REVISION (O2021-008)

Ordinance of the City Council of the City of Napa, State of California, Amending Napa Municipal Code Section 17.52.390 "Recycling/Solid Waste Areas" and Determining that the Actions Authorized by this Ordinance are Exempt from CEQA

First reading on November 16, 2021
Second reading on December 7, 2021
Adopted and passed by 5-0 vote of Napa City Council on December 7, 2021.
Effective Date: January 6, 2022

Please visit www.cityofnapa.org for complete ordinance revision.

DEFINITIONS

The following words used in this document have the meanings set forth below, unless otherwise noted herein. The definitions apply whether or not the words are capitalized. Certain unique terms are capitalized to call the reader's attention to them.

Authorized Contractor: "Authorized Contractor" means any person authorized by the City Council to collect municipal solid waste, recyclable materials, yard trimmings, food scraps and/or compostables from others within the city limits in accordance with Napa Municipal Code Chapter 5.60 .

City: "City" means the City of Napa, a California charter city, and all of the territory lying within the municipal boundaries of the City as presently existing or as such boundaries may be modified in the future.

Co-Collected Yard Trimmings and Food Scraps: "Co-Collected Yard Trimmings and Food Scraps" means yard trimmings generated at a residential premises that are co-collected with food scraps generated at the same residential premises (including a single family dwelling, duplex, triplex, fourplex or a multi-family complex). "Co-Collected Yard Trimmings and Food Scraps" are stored together in containers and are collected together. Co-collected yard trimmings and food scraps shall not contain over 50% food scraps, by weight.

Commercial & Business Establishments (Business or Businesses): "Commercial & Business Establishments" or "Business" or "Businesses" means all hotels, motor courts, restaurants, offices or office buildings, stores, warehouses, factories, hospitals, assisted living facilities and all other premises used for functions other than dwelling units.

Compliance Official: "Compliance Official" means the Enclosure Standards Official, who is hereby deemed to be the City of Napa's Materials Diversion Administrator, or a designee of the Materials Diversion Administrator or the Community Development Director.

Compostables: "Compostables" means those materials that are processed in a controlled biological decomposition process, which are source separated from the municipal solid waste Stream. Compostables include food scraps, soiled paper products and yard trimmings that do not contain hazardous waste.

Containers: "Containers" means watertight metal or plastic objects with lids or covers, designed and used to hold MSW, recyclable materials, food scraps, yard trimmings, compostables or cooking oil/grease prior to collection. Containers include wheeled carts with lids, bins, open-top roll-off boxes, compactors and oil/grease tanks.

Contamination: "Contamination" means placing materials in a container that is labeled and intended for storage of another type of material, and which would either interfere with the processing of the material or reduce the quality and value of the recovered material. For example, placing metals or plastics in a container labeled "yard trimmings" constitutes "contamination" because it would interfere with the equipment and processes used to compost or mulch the yard trimmings. Similarly, placing food scraps in a container labeled "recyclable materials" would contaminate the recyclable materials, making it more difficult to properly sort and process them for marketing.

Diversion: "Diversion" means any combination of recycling, composting, re-use, donation, source reduction or other activities that reduces the quantity of municipal solid waste disposed of from the City of Napa at the Devlin Road Transfer Station or any other appropriately permitted solid waste disposal facility.

Enclosure: "Enclosure" means a walled structure for the storage of containers for municipal solid waste, recyclable materials, compostables and (where applicable) kitchen and oil grease, with one or more gates for access.

Food Facility: "Food Facility" means a commercial & business establishment that stores, prepares, packages, serves, vends or otherwise provides food for human consumption.

Food Scraps: "Food Scraps" means surplus, spoiled or unsold food including, but not limited to, fruit, vegetables, meat and bones, seafood, dairy products, eggs and eggshells, rice, beans, bread, pasta, coffee grounds, and plate scrapings of these materials.

Generate: "Generate" means to bring into existence or create, or to use, maintain or possess an item, material or product, the result of which such creation, bringing into existence, use, maintenance or possession is that the item, material or product first becomes, or is converted, transformed, evolved to, or deemed as MSW, recyclable materials, compostables or yard trimmings.

Multi-Family Complex: "Multi-Family Complex" means a building, dwelling unit or complex containing multiple residential dwelling units that houses more than five dwelling units which have centralized collection points for MSW and recyclable materials and that does not have individual collection service for these materials at each unit. MSW and recyclable materials are collected from carts, bins, roll-off boxes and/or compactors located in one or more enclosures on the property. If the owner/manager of a multi-family complex elects to store yard trimmings and/or food scraps (compostables) on the property, these materials must be stored in accordance with the requirements contained in these Enclosure Standards.

Municipal Solid Waste (MSW): "Municipal Solid Waste" or "MSW" means any amount of discarded putrescible and non-putrescible solid, semi-solid and liquid wastes, including garbage, trash refuse, paper, rubbish, ashes, industrial wastes, construction and demolition debris, discarded home and industrial appliances, manure, vegetable or animal solid and semi-solid wastes, and other non-hazardous discarded substances or materials.

Recyclable Materials: "Recyclable Materials" means material which otherwise would become or be treated as MSW but which, by means of a process of collecting, sorting, cleansing, treating and reconstructing, may be returned to the economic mainstream in the form of finished or source material for new, reused or reconstituted products, which may be used in the market place. "Recyclable Materials" includes glass, plastic, newspaper, junk mail, magazines, cardboard, metals, telephone books and other soft cover books, milk, juice and aseptic (foil-lined) cartons, boxboard (cereal and shoe boxes) and other similar materials.

Senate Bill No. 1383 (SB 1383): "SB 1383" means Senate Bill 1383 of 2016 approved by the Governor on September 19, 2016, which added Sections 39730.5, 39730.6, 39730.7, and 39730.8 to the Health and Safety Code, and added Chapter 13.1 (commencing with Section 42652) to Part 3 of Division 30 of the Public Resources Code,

establishing methane emissions reduction targets in a Statewide effort to reduce emissions of short-lived climate pollutants as amended, supplemented, superseded, and replaced from time to time.

Significant Addition: "Significant Addition" means an addition (as defined in NMC Section 17.06.030) that is (1) more than 1,000 square feet or (2) equal to or greater than 20% of the total building square footage.

Significant Remodel: "Significant Remodel" means a remodel that (1) will increase the occupancy of the total gross building area by 50% or more; or (2) constitutes a change of use that results in one or both of the following: (a) an increase in the quantity of municipal solid waste, recyclable materials and/or compostables generated; (b) the addition of one or more type(s) of materials generated such as municipal solid waste, recyclable materials and/or compostables (example: an office becomes a Food Facility); or (3) is determined by the Community Development Director to require compliance with the enclosure standards to ensure the proper storage and handling, and efficient and safe removal, of solid waste, recyclable materials and compostable materials on the premises.

Solid Waste Collection Area: "Solid Waste Collection Area" means any area designated for the storage and pickup of containers for municipal solid waste, recyclable materials and compostables that is not an enclosure.

Soiled Paper Products: "Soiled Paper Products" means paper towels, tissue products, paper napkins, paper plates and cups, coffee filters, tea bags, waxed paper, butcher paper, paper take-out boxes and containers, greasy pizza boxes, paper bags and cardboard and wax-coated cardboard produce boxes. "Soiled Paper Products" does not include polystyrene, plastic-backed paper, blue-line paper or blueprints, diapers, kitty litter, any paper containing plastics, aluminum foil or foil-lined food wrap.

Standards: "Standards" or "Enclosure Standards" means the "Solid Waste, Recyclable Materials and Compostables Enclosure Standards" dated January 2022 by Ordinance 2021-008 and any future revisions thereto.

Yard Trimmings: "Yard Trimmings" means tree trimmings grass cuttings, leaves, branches, and similar green materials, including vineyard clippings.

These Standards provide information, resources and the requirements for designing enclosures for storage of municipal solid waste (MSW), recyclable materials, and compostables that will be used by building occupants in new developments, and in existing structures that undergo Significant Remodels or Significant Additions.

These Enclosure Standards apply to projects/permits with a paid submittal of an application for City review dated on or after January 6, 2022. This includes applications for Significant Additions and Significant Remodels of existing commercial and business establishments and existing multi-family complexes as defined in these Standards.

Projects and permits with a paid submittal of an application for City review dated on or after October 21, 2008 and prior to January 6, 2022 are required to comply with the earlier version of the Standards titled "Solid Waste and Recycling Enclosure Standards" adopted by the City Council on October 21, 2008 (Napa Resolution R2008-185).

Along with ensuring adequate capacity for all of the above-listed materials generated at the site, enclosures must also be able to accommodate storage of kitchen oil/grease if it is generated. (Note: throughout these Standards food scraps, soiled paper products and yard trimmings are often referred to together as "compostables".) State law requires new development projects, including commercial, industrial or institutional buildings and multi-family developments of 5 units or more, to provide adequate, accessible and convenient areas for collecting and loading recyclable materials (See Public Resources Code §42900 et seq.). In addition, each local government, including the City of Napa, is required to reduce waste destined for landfills by 50 percent or risk a State-initiated fine of $10,000 per day. (See Public Resources Code §40000 et seq.). A new goal of diverting 75 percent of waste from landfill disposal by 2020 was established by both the State of California and the City of Napa in 2012 (Public Resources Code §41780.01 et seq. & Napa Resolution R2012-100) SB 1383 requires organic waste in California landfills to be reduced 75 percent by 2025. It also requires that by 2025 at least 20 percent of edible food currently sent to landfills be recovered for human consumption. In order to meet these goals, all residences and commercial businesses are required to participate in the City's composting program.

The City, in cooperation with its Authorized Contractor, offers free waste assessments and consultations to help determine what types of material may be generated by a business or multi-family complex and provides resources and recommendations related to container and enclosure sizing needs.

For questions regarding the information in these Standards, or to schedule a free waste assessment to help determine container and enclosure size needs, please contact:

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I. COLLECTION AND STORAGE REQUIREMENTS

A. General

The Napa Municipal Code (NMC) requires all businesses and multi-family complexes within the City of Napa to subscribe to solid waste, recycling and compostables service offered by the City's Authorized Contractor unless they are exempted from those requirements **(NMC Section 5.60.160, Garbage Collection & Disposal).** The service must adequately collect all MSW, recyclable materials and compostables that may be generated by a business or multi-family complex. MSW, recyclable materials and compostables must be seperated into different containers and all containers must be properly stored in an enclosure that meets the building requirements and environmental/safety regulations listed in **Section III "Enclosure Design & Compliance Requirements"** of this document and applicable sections of the NMC (specifically NMC Section 5.60, Garbage Collection & Disposal and NMC Section 8.16, Public Nuisances).

B. Commercial Businesses (Offices, Retail, Light Industrial)

State law requires all businesses to divert the recyclable materials they generate effective July 1, 2012 (Public Resources Code §41780.01 et seq.). Additionally, State law also requires commercial businesses to participate in a composting program to meet the goal of reducing 75% of organic waste in landfills by 2025. Therefore, all businesses must size enclosures to store all MSW, recyclables and compostables. Compostables include all food scraps & soiled paper from breakrooms and yard trimmings generated if they are not hauled away by a landscaper or left as mulch on the grass or on other landscaped or garden areas. Enclosures must have adequate space for the storage of all three streams.

C. Food Facilities

If a business stores, prepares, packages, serves, vends or otherwise provides food for human consumption it is considered a Food Facility. Food Facilities may include, but are not limited to restaurants, grocery stores, schools, nursing homes and hospitals. The City of Napa offers an environmentally beneficial commercial food composting collection program that collects compostables in 65-gallon carts with lids and special signage. All food scraps (fruit, vegetables, meat, fish, cheese, bread, pasta, coffee grounds, etc.) as well as soiled paper products are acceptable as compostables. The State of California now requires all commercial businesses to participate in a food scrap collection program (Public Resources Code §42649.8 et seq.).

All Food Facilities that generate compostables must provide adequate space within their enclosure(s) to accommodate 65-gallon compostables carts and comply with building requirements related to the storage of food. Per the City and County of Napa, these enclosures require the installation of a roof and drain that is connected to the sanitary sewer. All connections to the sanitary sewer require compliance with Napa Sanitation District requirements. Detailed information about these requirements can be found in **Section III "Enclosure Design & Compliance Requirements"** If any future tenants will be, or may be, Food Facilities generating compostables the enclosure(s) must be designed to accommodate an adequate number of 65-gallon carts for storage of compostables. Additionally, Food Facilities that generate cooking oil/grease must provide

adequate space in the enclosure(s) for a container designed specifically for the storage and collection of cooking oil and grease.

In addition to participating in a food scrap collection program, State law requires that all food generators participate in an organics recovery program with the goal of recovering 20% of edible food sent to landfills for human consumption.

D. Multi-Family Complexes

State law requires all multi-family complexes to divert recyclable materials they generate effective July 1, 2012 (Public Resources Code §41780.01) and capture all compostables. Therefore, all multi-family complexes must size enclosures to store MSW, recyclable materials and compostables. If yard trimmings are generated at a complex and are not hauled away by the landscaper or left as mulch on the grass or on other landscaped or garden areas, then the enclosure(s) must also have adequate space for storage of yard trimmings. See **Section II F. Determining Service Needs for Multi-Family Complexes**. If a complex is storing yard trimmings in the enclosure(s) it may be possible for the complex to participate in the residential co-collected yard trimmings and food scrap program offered by the City's Authorized Contractor. Depending upon the size of the complex and the frequency of collection, this could save some space in the enclosure(s). Multi-family complex enclosures are not required to install a drain that is connected to the sanitary sewer or have an enclosure roof provided all containers have closed lids covering the material.

II. DETERMINING ENCLOSURE SIZE

A. Maximizing Collection Efficiency

- The automated collection trucks used by the City's Authorized Contractor achieve maximum efficiency when the number of times the driver gets out of the truck is minimized. Properly designed enclosures allow the driver to "stab" the bin without physically moving it when bins are used for collection. Maximizing efficiencies help keep solid waste collection fees reasonable.
- Additionally, the collection system is most efficient and economical if trucks only need to service a site once per week. The goal is to size enclosures to be large enough to contain one-week's volume of MSW, recyclable materials and compostables when possible. It is also important to obtain sufficient service to prevent material from overflowing or being stored on the ground. Uncontainerized debris violates the City's municipal code and will not be collected by the City's Authorized Contractor. **(NMC Chapter 8.36, Stormwater Pollution Control)**. Please note that sizing enclosures to require collection more than 3 times per week requires the applicant to submit a written request and obtain the approval of the City Compliance Official.

B. User Convenience to Minimize Contamination of Recyclable Materials and Compostables

Enclosures must be designed to make it convenient for those using the various containers (tenants, employees, and property owners) to conveniently place MSW, recyclable

materials and compostables in the correct containers with minimal effort. Containers should not be placed in front of each other to avoid restricting access to each. Rather, containers should "wrap" the perimeter of the enclosure whenever possible to allow access to each container.

C. Indoor Solid Waste Storage

Some businesses prefer to store collection containers in a room or area that is permanently attached to the business. This is an acceptable method for the storage of all necessary collection containers. In addition to providing adequate space for all MSW, recyclable materials, compostables and cooking oil/grease that may be generated, all requirements found in **Section III "Enclosure Design & Compliance Requirements"** must be followed as well as any additional state and local codes related to indoor solid waste storage. These requirements include, but are not limited to, the installation of an approved automatic sprinkler system and gate access into the storage area.

D. Determining Service Needs for Commercial Businesses (Offices, Retail, Light Industrial)

In order to determine what type and how much service a business will need, the business must first determine the type of materials that will be generated by the business. The three primary service types that require separation into different containers are: MSW, recyclable materials, and compostables. Will the business generate all three categories of material? Keep in mind that most multi-family complexes and business properties have commercial landscapers who leave grass clippings on lawns or remove the yard trimmings. If this is the case, there is no need to make enough room for a yard trimmings cart. If a business is a Food Facility that will produce food scraps and other compostables please see Section D "Determining Service Needs for FOOD FACILITIES" to determine the enclosure sizing needs. Food Facilities must construct an enclosure that has a roof and must install a drain connected to the sanitary sewer. Specific details can be found in **Section III "Enclosure Design & Compliance Requirements"** of this document. Keep in mind that light industrial/commercial properties are required to have at least one enclosure sized for the collection of compostables. Additionally, in business complexes where tenants are specified and do include businesses that generate food, the nearest enclosure to the business that generates food shall be designed to meet standards for a Food Facility enclosure. Table A will help determine the enclosure size needed based on the type and size of the business.

TABLE A (Municipal Solid Waste (MSW), Recyclable Materials & Compostables) Recommended Enclosure Size & Container Need by Building Use, Square Footage, and Estimated Weekly Generation				
Business / Land Use	**Square Footage**	**Estimated Weekly Generation***	**Enclosure Size Required (width x depth)**	**Sample Diagram****
Office, Retail, Industrial and General Commercial**	Less than 5,000 sq. ft.	2 cubic yards	11' x 6'	Exhibit A. Cart Enclosure***
	5,000-10,000 sq. ft.	4 cubic yards	17' x 7'	Exhibit B. Small Bin Enclosure (two 2-yd. bins)
	10,000-20,000 sq. ft.	8 cubic yards	17' x 8'	Exhibit C. Medium Bin Enclosure (two 4-yd. bins)
	over 20,000 sq. ft.	12 cubic yards or more	17' x 10'	Exhibit D. Large Bin Enclosure or multiple enclosures (two 6-yd. bins or >)

* Generation assumes 50% MSW and 50% recyclable materials with no compostables or yard trimmings (Assumes yard trimmings are removed by landscapers or mulched on-site)
** Sample diagrams for each of the MSW & recyclable materials enclosures are in Exhibits A-D
*** Cart-only service for generation beyond 2 cubic yards may require multiple pickups per week for businesses with limited space

E. Determining Service Needs for Food Facilities

The City of Napa, via its Authorized Contractor, offers weekly collection of 65-gallon food scrap/compostables carts. Collection service is most efficient and cost effective if the enclosure is built to hold one week's worth of material. The enclosure must be sized to hold all of the containers that a Food Facility requires, which will include containers for MSW, recyclable materials, compostables and a cooking oil/grease tank if the business generates oil and grease. Table B is a guideline to help determine weekly material generation from a Food Facility based on the size of the Food Facility, the quantity and type of containers needed for service, and the size of enclosure that is needed to house containers. Individual results may vary depending on preparation methods and materials, reuse of leftovers, and type of food service. When planning, keep in mind any seasonal changes and future business changes that may increase the amount of material generated, therefore increasing the number and/or size of containers required. Food Facilities such as nursing homes and hospitals require a waste assessment to accurately assess their needs.

Table B will help determine the enclosure size needed based on the size of the Food Facility:

TABLE B

(Municipal Solid Waste (MSW), Recyclable Materials & Compostables)

Recommended Enclosure Size & Container Need by Square Footage and Estimated Weekly Generation

Business /Land Use	Square Footage	Estimated Weekly Generation*	Enclosure Size Required (width x depth)	Sample Diagram**	Containers Required
Food Facility **WITHOUT** Oil/Grease Tank	Less than 4,000 sq. ft.	2 cubic yards	9' x 10'	Exhibit E. Extra Small Food Enclosure	1, 95-gal MSW Cart 1, 95-gal Recyclable Materials Cart 3, 65-gal Compostables Carts
	4,000-8,000 sq. ft.	4 cubic yards	13' x 12'	Exhibit F. Small Food Enclosure	2, 95-gal MSW Carts 2, 95-gal Recyclable Materials Carts 6, 65-gal Compostables Carts
	8,000-16,000 sq. ft.	8 cubic yards	21' x 11'	Exhibit G. Medium Food Enclosure***	1, 2 yd. MSW Bin 1, 2 yd. Recyclable Materials Bin 4, 65-gal Compostables Carts 3X/wk.
	Over 16,000 sq. ft.	12 cubic yards or more	21' x 11'	Exhibit H. Large Food Enclosure***	1, 3 yd. MSW Bin 1, 3 yd. Recyclable Materials Bin 6, 65-gal Compostables Carts 3X/wk.
Food Facility **WITH** Oil/Grease Tank	Less than 4,000 sq. ft.	2 cubic yards	13' x 7'	Exhibit I. Extra Small Food/Oil Enclosure	1, 95-gal MSW Cart 1, 95-gal Recyclable Materials Cart 3, 65-gal Compostables Carts 1, 100-gal Oil/Grease Tank
	4,000-8,000 sq. ft.	4 cubic yards	20' x 10'	Exhibit J. Small Food/Oil Enclosure	2, 95-gal MSW Carts 2, 95-gal Recyclable Materials Carts 6, 65-gal Compostables Carts 1, 200-gal Oil/Grease Tank
	8,000-16,000 sq. ft.	8 cubic yards	21' x 11'	Exhibit K. Medium Food/Oil Enclosure***	1, 2 yd. MSW Bin 1, 2 yd. Recyclable Materials Bin 4, 65-gal Compostables Carts 3X/wk. 1, 200-gal Oil/Grease Tank
	Over 16,000 sq. ft.	12 cubic yards or more	21' x 12'	Exhibit L. Large Food/Oil Enclosure***	1, 3 yd. MSW Bin 1, 3 yd. Recyclable Materials Bin 6, 65-gal Compostables Carts 3X/wk. 1, 300-gal Oil/Grease Tank

* Generation assumes 25% MSW, 25% recyclable materials and 50% compostables
** Sample diagrams for each of the Food Facility enclosure types are in Exhibits E-L
*** Medium and Large Food Facility enclosures require twice a week collection of compostables carts

F. Determining Service Needs for Multi-Family Complexes

The City of Napa, via its Authorized Contractor, offers service to multi-family complexes including weekly collection of 65-gallon food scrap/compostables carts. Collection service is most efficient and cost effective if the enclosure is built to hold one week's worth of material. The enclosure must be sized to hold all of the containers that a multi-family complex requires, which will include containers for MSW, recyclable materials, yard trimmings (if needed) and compostables. Table C (MSW, Recyclable Material & Compostables generators) provide guidelines to help determine weekly material generation from multi-family complexes based on the number of residential units, the quantity and type of containers needed for service, and the size of enclosure that is needed to house containers. In some cases multiple enclosures may be needed for larger complexes to provide user convenience. Each enclosure must provide containers for the collection of all three material streams.

TABLE C

(Municipal Solid Waste (MSW), Recyclable Materials & Compostables)

Recommended Multi-Family Container Need by Number of Units & Estimated Weekly Generation

Number of Units	Estimated Weekly Generation*	Minimum Containers Required**
6-10 Units	4-6 cubic yards	2, 95-gal MSW Carts 4, 95-gal Recyclable Materials Carts 3, 65-gal Compostables Carts
11-20 Units	7-12 cubic yards	4, 95-gal Recyclable Materials Carts 1, 2-yd. MSW Bin 6, 65-gal Compostables Carts
21-30 Units	13-18 cubic yards	1, 3-yd MSW Bin 1, 4-yd Recyclables Bin 9, 65-gal Compostables Carts
31-40 Units	19-24 cubic yards	1, 4-yd MSW Bin 1, 6-yd Recyclables Bin 12, 65-gal Compostables Carts
Each Additional 20 Units	12 cubic yards	3, 95-gal MSW Carts (2X/wk.) 6, 95-gal Recyclable Materials Carts (2X/wk.) 3, 65-gal Compostables Carts (3X/wk.)

* Generation assumes 25% MSW, 50% recyclable materials & 25% compostables with no yard trimmings (Assumes yard trimmings are removed by landscapers or mulched on-site)

** Multiple weekly pickups may be required

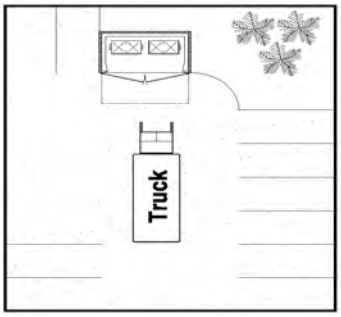
III. ENCLOSURE DESIGN AND COMPLIANCE REQUIREMENTS

I. Construction & Design

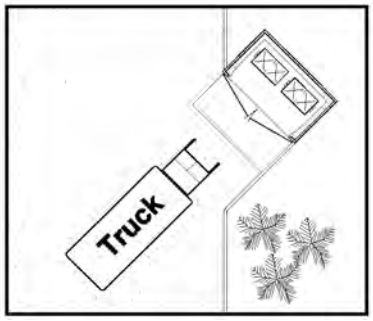
A. Location & Accessibility

1. All enclosures are required to have direct access for collection trucks. Direct access means the collection truck can drive directly at the bin or compactor, and insert the forks into the sides of the bin without the driver having to get out of the truck again (since the driver already must open the gate) to move the bin (See Diagram Below). A minimum straight approach of 50 feet is necessary to line up directly with bins and 75 feet is required for access to compactors and roll-off boxes. Angled direct access for bin service may be acceptable (with an angle of up to 30 degrees) if approved by the Compliance Official. An applicant may request such approval by submitting a written request with appropriate drawings to the Compliance Official.
2. Opening/closing gates or fences and locking/unlocking the bin lids are part of the driver's responsibility and are included as part of the service provided.

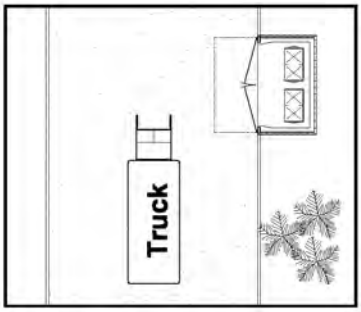
DIRECT ACCESS FOR BIN SERVICE (Preferred)



ANGLED DIRECT ACCESS FOR BIN SERVICE (Acceptable w/approval of up to 30 degrees)



NON-DIRECT ACCESS FOR BIN SERVICE *(Not Acceptable)



*May be acceptable for approved cart-only service.

Enclosures with poor accessibility, no accessibility or enclosures with atypical orientations are not permitted because the likelihood of driver injury and/or property damage increases. In addition, if a driver is required to move or push the bin in order to empty it, an additional collection fee may be charged.

- It is difficult and dangerous for a collection truck to back-up. Providing a turn around or separate exit that allows the truck to move forward rather than backwards is required. Maximum back-up distance is 50 feet for any maneuver and shall be in a straight line. A 75' distance is required for compactors or roll-off boxes.
- Containers shall not be placed in front of fire hydrants or equipment and no bin shall be placed within 5 feet of a combustible building wall, opening, or combustible roof eave line; and
- Enclosures shall not be installed behind parking spaces or landscaping.

B. Driveways

1. An asphalt or concrete driveway with 50 feet of straight, direct access that leads to and from the enclosures to bins and 75 feet for compactors and roll-off boxes is required and shall be built in accordance with the City Standard Plans and Specifications and be able to withstand trucks weighing up to 56,000 lbs. Gross Vehicle Weight (GVW).

C. Turning Radius Requirements & Truck Dimensions

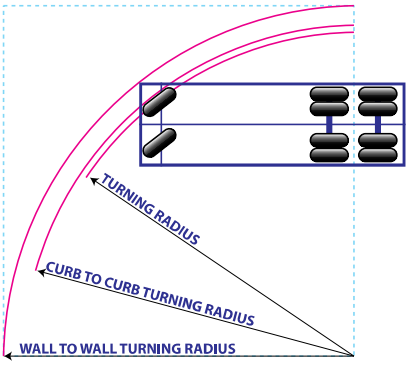
1. The turning radius shall be adequate for a 3-axle truck. Please detail this on all submitted plans.

COLLECTION TRUCK TURNING RADIUS AND DIMENSIONS FOR CITY OF NAPA SERVICE PROVIDER

COLLECTION TRUCK TURNING RADIUS:

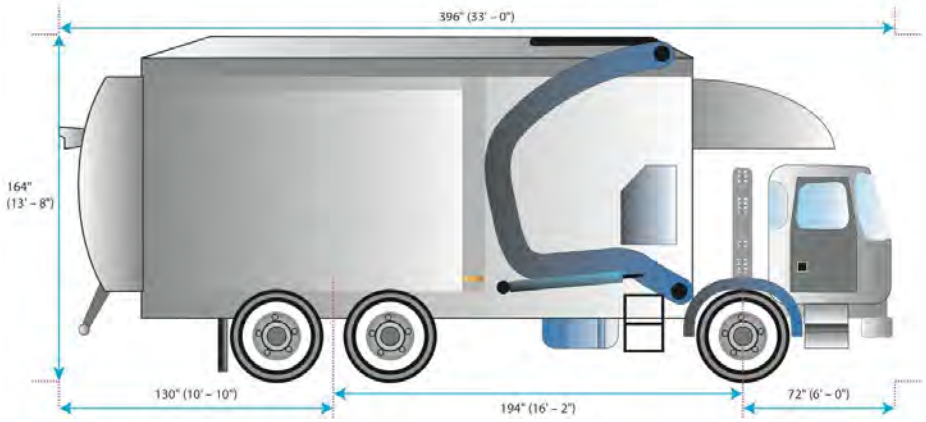
DESCRIPTION	RADIUS	DIAMETER
Turning	35’ - 0”	70’ - 0”
Curb to curb turning	36’ - 0”	72’ - 0”
Wall to wall turning	39’ - 0”	78’ - 0”

Turning radius: Radius of the track of the centerline of the front wheel.
Curb to curb turning radius: Radius of the smallest circle inside of which the vehicle’s tires can turn.
Wall to wall turning radius: Radius of the smallest circle inside of which the entire vehicle can turn.



COLLECTION TRUCK DIMENSIONS:

DESCRIPTION	FEET/INCHES
Overall length	33’ - 0”
Bumper to front axle	6’ - 0”
Wheelbase (front axle to pivot point rear tandem axle)	16’ - 2”
Pivot point rear tandem axle to rear of vehicle	10’ - 10”
Height	13’ - 8”
Width (includes mirrors)	11’ - 0”
Steering lock angle - 25.2 degrees	N/A



D. Stress Concrete Apron

1. Apron surface shall be the same elevation as the enclosure pad threshold and the surrounding surfaces, with a slope of 1/8 inch (1% grade) per foot away from the enclosure pad; and,
2. To prevent damage to the asphalt paving by container impact, the enclosure shall be provided with an apron that extends a minimum of 8 feet from the enclosure pad and matches the width of the enclosure opening. This apron shall have a minimum sub-base of 4" of class 2 aggregate and shall consist of 3,000 psi concrete (six sack mix) or stronger, which is at least 6" thick with #4 rebar placed mid height at 12" on center each way. Alternatively, the builder shall provide evidence that construction specifications are engineered to withstand a minimum of 20,000 lbs. of direct downward force from a single truck axle.

E. Enclosure Concrete Pad

1. Enclosure pad shall be engineered to withstand up to 20,000 lbs. of direct force from a single truck axle.
2. Enclosure pad surface shall be the same elevation as the apron threshold.
3. Food Facility enclosures that have a drain connected to the sanitary sewer must have a grade break line constructed on the open side at the inside edge of the wall with the slab sloping inwards on the inside of the structure and away from the structure on the outside. Additionally, the ground shall be sloped away from the structure on all other sides (Napa Sanitation District (NSD) requirement).
4. The grade of all non Food Facility enclosure pads shall be flat such that no stormwater shall escape the enclosure if commingled with MSW.

F. Height Clearance of Enclosure Approach

1. In front of the enclosure, front loader collection trucks require at least 14 feet of vertical clearance over the entire approach to and from the enclosure to accommodate truck height, and 32 feet high just in front of the enclosure itself or wherever the bin will be emptied to accommodate the truck lifting the bins up to dump the contents.
2. Food Facility enclosures shall have a roof that has a height inside the enclosure of no less than 8 feet.

G. Interior

1. Enclosure size shall be determined in accordance with Exhibits A-M.2 .
2. The minimum interior dimension for an enclosure needed to house at least two (2) cubic yard bins is 17’ X 7’. For cart-only service the minimum size is 11’ X 6’ to store one 95-gal MSW cart, one 65-gal compostables cart and two 95-gal recyclable materials carts. The smallest size enclosure for a Food Facility without an oil/grease tank is 9’ X 10’ to house one 95-gal cart for MSW, one 95-gal cart for recyclable materials and three 65-gal compostables carts. Interior dimensions will increase depending on the size, type and number of containers (See **Section II. Determining Enclosure Size** for recommended sizes.)

3. The enclosure shall be large enough to provide a 6” clearance from the back interior wall to all bins and/or compactors and a minimum of 16” or more to each side of any bin or compactor. Additionally, 36” of pedestrian accessibility is required to all containers. Bins without wheels shall be placed a maximum of 8” from the vehicle gate doors if the enclosure has a roof and 24” if the enclosure does not have a roof. All containers, including carts and oil/grease tanks must have a minimum of 3” between them. No clearance is required between the back enclosure wall and carts for cart service. Adding a wood or rubber bumper on the back wall to prevent damage to the enclosure during servicing of bins or compactors is required. Bollards or other permanent or semi-permanent structures shall not be used within the enclosure. These structures reduce useable interior container space and accessibility.

Bollards reduce useable enclosure space and are not permitted inside enclosures.

H. Wall Height

1. Enclosures require a minimum wall height of 6’ to accommodate the required 6’ vertical clearance that is needed to fully open a 6-yard bin.

I. Material

1. Generally, the material of the enclosure should match the exterior surface of the building. See the Design Guidelines from the Community Development Department with questions. The City encourages compliance with the *Leadership in Energy and Environmental Design (LEED) New Construction and Major Renovations Standards for Storage and Collection of Recyclable Materials* or comparable *Build it Green* standards. (See Appendix B for more information.)

J. Roof

1. According to the City of Napa Post-Construction Stormwater Pollution Prevention Design Standards for new development and redevelopment, enclosures for Food Facilities that are connected to the sanitary sewer shall be covered and protected from roof and surface drainage. The lowest part of the roof cannot be lower than 8 feet high and shall extend past any open sides for a distance equal to ½ the height of the opening (i.e. if the roof is 8 feet above ground with a minimum wall height of 6 feet the roof is to extend 1 foot past the wall – Napa Sanitation District (NSD) requirement). Additionally, the City requires a 6” front roof overhang on all Food Facility enclosures. Enclosures

that are not being used for the storage of food scraps are not required to have a 6" roof overhang.

2. The City's Storm Water Quality Control Ordinance (NMC Chapter 8.36)requires all applicants to demonstrate that their proposed enclosure is in compliance for all material generated by the businesses.

K. Gates/Pedestrian Doors

1. Two gates are required for enclosures. When the enclosure does not allow for two gates, it may necessitate a single gate. All gates shall open to 110 degrees, remain closed unless in use and be able to be secured open.
2. Gates shall be free standing with no center pole. A center pole may be included at the discretion of the Compliance Official. Required clearances shall be provided for direct access to bins.
3. Gates shall be solid metal with outside handles on each door and a slide latch to secure the doors.
4. Gated opening for ingress/egress of bins shall be a minimum of 17 feet wide with gate posts outside of this span to avoid reducing the enclosure opening.
5. Use bolts, not screws, to secure gate to the poles or walls.
6. Provide means to secure gate doors both opened and closed, e.g. cane bolt w/sleeve and slide latch between doors and sleeve in pavement. The bolts should be a minimum ½ inch in diameter and the sleeves for both should be a minimum of 1 inch or double the size of the bolt to allow flexibility. Bolt shall drop a minimum of 4 inches into the ground.
7. Enclosure shall be kept clean with all MSW, recyclable materials and compostables placed in the proper container.
8. A separate additional pedestrian entrance with a door (to reduce scavenging) is required from the back or the side for both non-residential facilities and residential multi-family complex developments.
9. The California Building Code requires the pedestrian entrance door to open with no more than 5 lbs. of force. The opening hardware should be lever type centered 34" – 44" above the finished surface and the bottom 10" of the gate shall have a smooth, uninterrupted surface to allow the gate to be opened by a wheelchair footrest without creating a trap or hazardous condition.

L. Signage

1. The area directly in front of the enclosure gates shall have "NO PARKING" painted on the ground. The letters shall be 18" in height. Additionally, "NO PARKING" signs shall either be installed permanently affixed to each gate, or painted on each gate 48" above ground level in letters no smaller than 6" in height. Further, a minimum 12" by 18" sign with a minimum 1" lettering indicating contact information for the property owner and/or management company responsible for maintenance of the enclosure area (name/phone number) shall be permanently affixed to one of the front gates of the enclosure.

M. Electrical

1. If a compactor will be used, the most efficient power source is a 480V triple phase outlet. Some compactors may run on a 220V double phase outlet. Smaller compactors, four yards or less, will run on a single phase 110V outlet, but will require a dedicated 20 amp circuit. Compactor specifications should be consulted prior to wiring of an electrical outlet.

N. Storage

1. The property owner shall ensure that only MSW, recyclable materials and compostables containers, as well as an oil/grease tank (if applicable), are stored in the enclosure. The enclosure is strictly for the storage of containers and cannot be used for general storage of restaurant racks, wood pallets, electronic equipment, etc. Additionally, structures such as storage sheds should not be placed within enclosures.

Storage sheds, pallets, and equipment other than containers actively being used for the collection of MSW, recyclables and compostables are not permitted within enclosures

II. Safety & Environmental

A. Storm Water Pollution Prevention

1. Chapter 8.36, Storm water Runoff Pollution Control, of the City of Napa's Municipal Code states that it is unlawful for any person to make or cause to be made any illicit discharge.
2. This ordinance also requires new development and redevelopment projects to incorporate best management practices (BMPs) to minimize the generation, transport and discharge of pollutants to storm water outlets.
3. Post-Construction Storm Water Pollution Prevention Design Standards for new development and redevelopment have been adopted by the City of Napa. These standards require the following for MSW Storage Areas - Limited Exclusion: Detached residential homes:
    a. MSW storage areas shall be paved with an impervious surface, designed not to allow run-on from adjoining areas, and screened or walled to prevent off-site transport of MSW.
    b. Enclosures for Food Facilities shall be covered and protected from roof and surface drainage.
    c. Bin and cart lids shall be closed at all times and fit securely. Do not allow MSW to spill out or overflow the bin or cart.
    d. Wastewater from the cleaning of enclosure areas and areas where MSW is stored or contained may not be discharged to, or allowed to reach, the street or storm drain system. Wastewater may not be left as "standing" water. Any enclosure wastewater discharged to the sanitary sewer shall be in accordance with Napa Sanitation District (NSD) requirements. NSD can be contacted at: (707) 258-6000 or info@napasan.com
    e. Leakage from containers shall not be discharged to, or allowed to reach, the storm drain system.

B. Wastewater Pollution Prevention

1. The City and County of Napa require installation of drains that connect to the sanitary sewer for Food Facility enclosures that are servicing restaurants or other types of Food Facilities (i.e. grocery stores). Napa Sanitation District (NSD) requires that the wastewater drain be connected to the facility's grease interceptor upstream of the public sanitary sewer system. NSD also has other cover and drainage requirements.

C. Fire Prevention

Per NMC Chapter 15.04, compliance with the following is required:

1. Storage of combustible material shall not produce conditions that will create a nuisance or a hazard to the public health, safety or welfare.
2. Combustible material, and MSW kept within a structure shall be stored in accordance with the California Fire Code.

3. Materials susceptible to spontaneous ignition, such as oily rags, shall be stored in a listed disposable container. Contents of such containers shall be moved and disposed of daily.

4. Containers with a capacity exceeding 5.33 cubic feet (40 gallons) (0.15m cubed) shall be provided with lids. Containers and lids shall be constructed of noncombustible materials or approved combustible materials.

    a. Exception: Wastebaskets complying with Section 808 and 304.3.3 of the California Fire Code

5. Containers with an individual capacity of 1.5 cubic yards, 40.5 cubic feet (1.1.5 m cubed) or more shall not be stored in buildings or placed within 5 feet (1524 mm) of combustible walls, openings or combustible roof eave lines.

    a. Exception: Containers in areas protected by an approved automatic sprinkler system installed throughout in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.2.3.2 of the California Fire Code

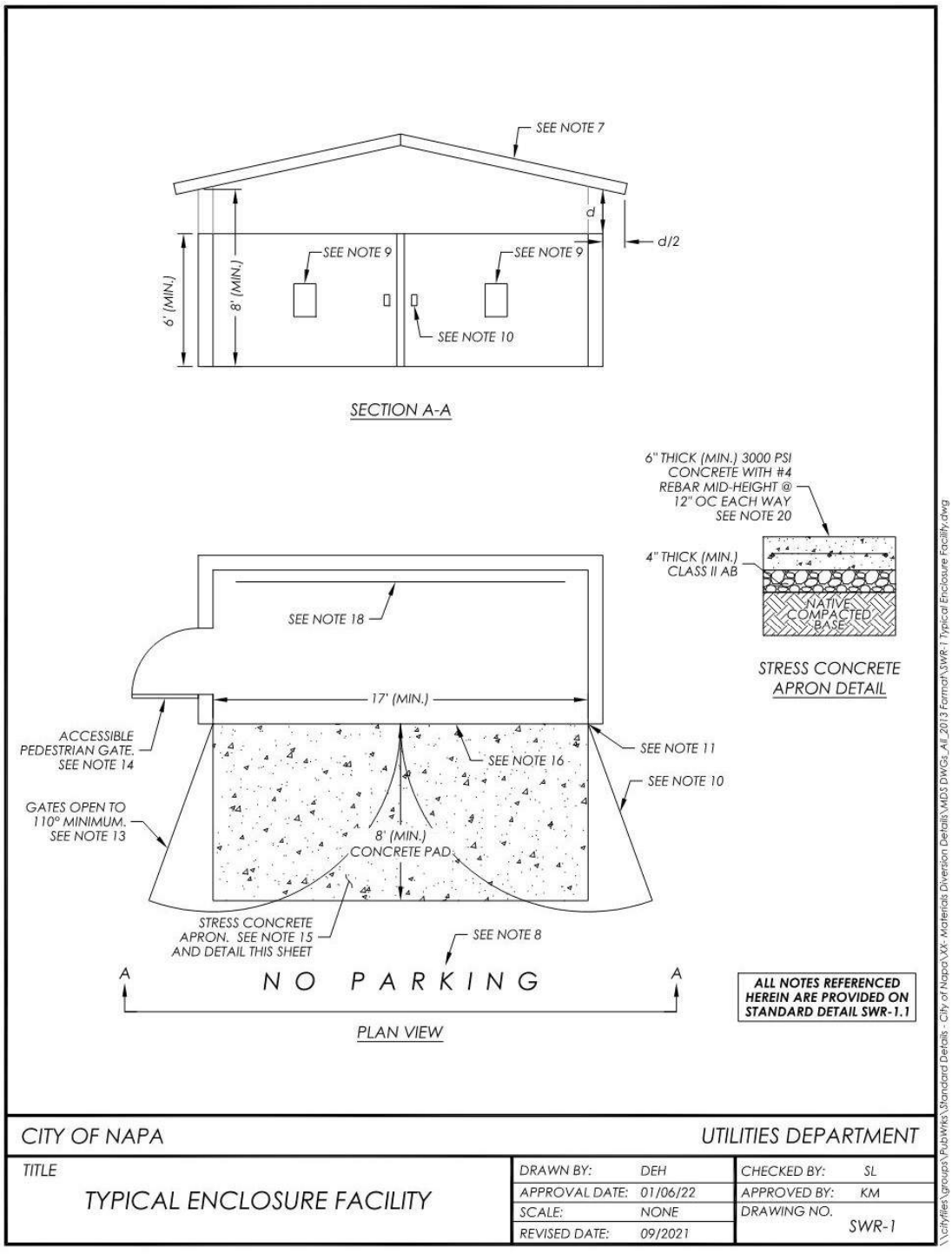
    b. Exception: Storage in a structure shall not be prohibited where the structure is of Type I or IIA construction, located not less than 10 feet from other buildings and used exclusively for container storage.

6. Containers with an individual capacity of 1.0 cubic yards, 200 gallons or more shall not be stored in buildings or placed within 5 feet of combustible walls, openings or combustible roof eave lines unless the containers are constructed of noncombustible materials or of combustible materials with a peak rate of heat release not exceeding 300kW/m2 when tested in accordance with ASTM E 1354 at an incident heat flux of 50 kW/m2 in the horizontal orientation.

    a. Exception: Containers in areas protected by an approved automatic sprinkler system installed throughout in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.2.3.2 of the California Fire Code

    b. Exception: Storage in a structure shall not be prohibited where the structure is of Type I or IIA construction, located not less than 10 feet from other buildings and used exclusively for container storage.

EXHIBITS


SEE NOTE 7
d
d/2
SEE NOTE 9
SEE NOTE 9
SEE NOTE 10
6' (MIN.)
8' (MIN.)
SECTION A-A
6" THICK (MIN.) 3000 PSI CONCRETE WITH #4 REBAR MID-HEIGHT @ 12" OC EACH WAY SEE NOTE 20
4" THICK (MIN.) CLASS II AB
NATIVE COMPACTED BASE
STRESS CONCRETE APRON DETAIL
SEE NOTE 18
17' (MIN.)
ACCESSIBLE PEDESTRIAN GATE. SEE NOTE 14
SEE NOTE 16
SEE NOTE 11
SEE NOTE 10
GATES OPEN TO 110° MINIMUM. SEE NOTE 13
8' (MIN.) CONCRETE PAD
STRESS CONCRETE APRON. SEE NOTE 15 AND DETAIL THIS SHEET
SEE NOTE 8
A
NO PARKING
A
PLAN VIEW
ALL NOTES REFERENCED HEREIN ARE PROVIDED ON STANDARD DETAIL SWR-1.1
CITY OF NAPA
UTILITIES DEPARTMENT
TITLE
TYPICAL ENCLOSURE FACILITY
DRAWN BY: DEH
APPROVAL DATE: 01/06/22
SCALE: NONE
REVISED DATE: 09/2021
CHECKED BY: SL
APPROVED BY: KM
DRAWING NO. SWR-1
\\cityfiles\groups\PubWks\Standard Details - City of Napa\XX- Materials Diversion Details\MDS DWGs_All_2013 Format\SWR-1 Typical Enclosure Facility.dwg

NOTES

1. CITY STD SWR-1A THROUGH SWR-1H ARE PROVIDED AS EXAMPLE LAYOUTS AND CAN BE MODIFIED TO SERVE INDIVIDUAL PROJECT NEEDS, HOWEVER, MINIMUM AND MAXIMUM DISTANCE REQUIREMENTS MUST BE MET AS NOTED.
2. SEE CITY STD. SWR-1A THROUGH SWR-1D FOR NON-FOOD FACILITY ENCLOSURE LAYOUTS.
3. SEE CITY STD. SWR-1E THROUGH SWR-1H FOR FOOD FACILITY ENCLOSURE LAYOUTS WITHOUT GREASE/OIL TANKS.
4. SEE CITY STD. SWR-1I THROUGH SWR-1L FOR FOOD FACILITY ENCLOSURE LAYOUTS WITH OIL/GREASE TANKS.
5. TRASH ENCLOSURES SHALL BE IN COMPLIANCE WITH STORM WATER QUALITY CONTROL ORDINANCE 8.36.00.
6. FOOD FACILITIES THAT GENERATE COOKING OIL AND GREASE FOR DISPOSAL MUST COLLECT OIL AND GREASE IN A SEPARATE CONTAINER DESIGNED SPECIFICALLY FOR THE COLLECTION OF THESE TWO ITEMS.
7. DISPOSAL OF OIL AND GREASE IN A MUNICIPAL SOLID WASTE COLLECTION CONTAINER IS NOT ALLOWED.
8. FOR FOOD FACILITY ENCLOSURES A ROOF SHALL BE PLACED ON THE TRASH ENCLOSURE. THE ROOF SHALL EXTEND PAST OPEN SIDES WITHOUT A GATE BY A DISTANCE EQUAL TO ½ THE HEIGHT OF THE OPENING (I.E. IF THE BOTTOM OF THE ROOF IS 2-FEET ABOVE THE TOP OF THE STRUCTURE WALL IT IS REQUIRED TO EXTEND 1-FOOT PAST THE OUTSIDE EDGE OF THE WALL). TO ALLOW GARBAGE TRUCKS TO ACCESS THE BINS, THE ROOF SHALL EXTEND 6-INCHES PAST THE OUTSIDE EDGE OF THE GATE (ON THE GATE SIDE OF THE STRUCTURE ONLY).
9. THE AREA DIRECTLY IN FRONT OF THE ENCLOSURE GATES SHALL HAVE "NO PARKING" PAINTED ON THE GROUND. THE LETTERS SHALL BE A MINIMUM OF 18-INCHES IN HEIGHT.
10. SEE CITY STD. SWR-2 FOR ENCLOSURE SIGNAGE REQUIREMENTS.
11. GATES TO BE SOLID METAL WITH OUTSIDE HANDLES ON EACH DOOR AND A SLIDE LATCH TO SECURE THE DOORS.
12. BOLTS, NOT SCREWS, SHALL BE USED TO SECURE GATE TO POLES OR WALLS.
13. PROVIDE MEANS TO SECURE GATE DOORS BOTH OPENED AND CLOSED, E.G. CANE BOLT WITH SLEEVE AND SLIDE LATCH BETWEEN DOORS AND SLEEVE IN PAVEMENT. THE BOLTS SHOULD BE A MINIMUM OF 1-INCH OR DOUBLE THE SIZE OF THE BOLT TO ALLOW FLEXIBILITY. BOLT DROP SHALL BE A MINIMUM OF 4-INCHES INTO THE GROUND. IF GATES WILL NEED TO CLEAR CURBS TO OPEN FULLY THE GATES SHALL BE MAXIMUM OF 8-INCHES ABOVE FINISHED GRADE.
14. GATES SHALL REMAIN CLOSED UNLESS IN USE AND MUST OPEN TO AT LEAST 110 DEGREES AND BE ABLE TO BE SECURED OPEN.
15. A SEPARATE PEDESTRIAN ENTRANCE WITH A DOOR IS REQUIRED FROM THE BACK OR THE SIDE FOR BOTH NON-RESIDENTIAL FACILITIES AND RESIDENTIAL MULTI-FAMILY COMPLEX DEVELOPMENTS.
16. STRESS CONCRETE APRON SHALL MATCH THE WIDTH OF THE ENCLOSURE OPENING AS SHOWN. THE APRON STRUCTURAL SECTION SHALL BE AS SHOWN OR EVIDENCE THAT CONSTRUCTION SPECIFICATIONS ARE ENGINEERED TO WITHSTAND A MINIMUM 20,000 LBS. OF DIRECT DOWNWARD FORCE FROM A SINGLE TRUCK AXLE SHALL BE PROVIDED. APRON SURFACE SHALL BE THE SAME ELEVATION AS THE ENCLOSURE PAD THRESHOLD AND THE SURROUNDING SURFACES. APRON SHALL EXTEND MINIMUM OF 8-FT FOR ENCLOSURES WITHOUT ROOFS AND 10-FT FOR ENCLOSURES WITH ROOFS.
17. FOR FOOD FACILITIES A GRADE BREAK LINE SHALL BE CONSTRUCTED ON THE INSIDE EDGE OF THE WALL WITH THE SLAB SLOPING INWARDS ON THE INSIDE OF THE STRUCTURE AND AWAY FROM THE STRUCTURE ON THE OUTSIDE.
18. FOR NON FOOD FACILITY ENCLOSURES THE GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
19. WOOD OR RUBBER BUMPERS ALONG THE BACK WALL IS REQUIRED TO PREVENT DAMAGE TO THE ENCLOSURE DURING SERVICING OF BINS OR COMPACTORS.
20. IF LARGE-SIZED STATIONARY BINS ARE USED THE BIN MUST BE DIRECTLY ACCESSIBLE BY COLLECTION TRUCKS. SEE CITY STD. SWR-3 FOR TRUCK ACCESS REQUIREMENTS.
21. GATES SHALL BE FREE STANDING WITH NO CENTER POLE. A CENTER POLE MAY BE INCLUDED AT THE DISCRETION OF THE SOLID WASTE & RECYCLING DIVISION, REQUIRED CLEARANCES SHALL BE PROVIDED FOR DIRECT ACCESS TO BINS.
22. BOLLARDS OR OTHER PERMANENT OR SEMI-PERMANENT STRUCTURES SHALL NOT BE USED WITHIN THE ENCLOSURE. THESE STRUCTURES REDUCE THE USABLE INTERIOR CONTAINER SPACE AND ACCESSIBILITY.
23. ***ALL ENCLOSURES SHALL MEET REQUIREMENTS AS OUTLINED IN THE SOLID WASTE, RECYCLABLE MATERIALS, AND COMPOSTABLES ENCLOSURE STANDARDS.*** THE LAYOUTS SHOWN IN STD SWR-1A THROUGH SWR-1M ARE PROVIDED FOR GUIDANCE AND MAY NEED MODIFICATION BASED ON UNIQUE PROJECT SITE CHARACTERISTICS. ALL PROPOSED ENCLOSURES SHALL BE PROVIDED TO THE SOLID WASTE & RECYCLING DIVISION FOR REVIEW AND COMMENT.

CITY OF NAPA — UTILITIES DEPARTMENT

TITLE				
TYPICAL ENCLOSURE FACILITY NOTES	DRAWN BY:	DEH	CHECKED BY:	SL
	APPROVAL DATE:	01/06/22	APPROVED BY:	KM
	SCALE:	NONE	DRAWING NO.	SWR-1.1
	REVISED DATE:	09/2021		

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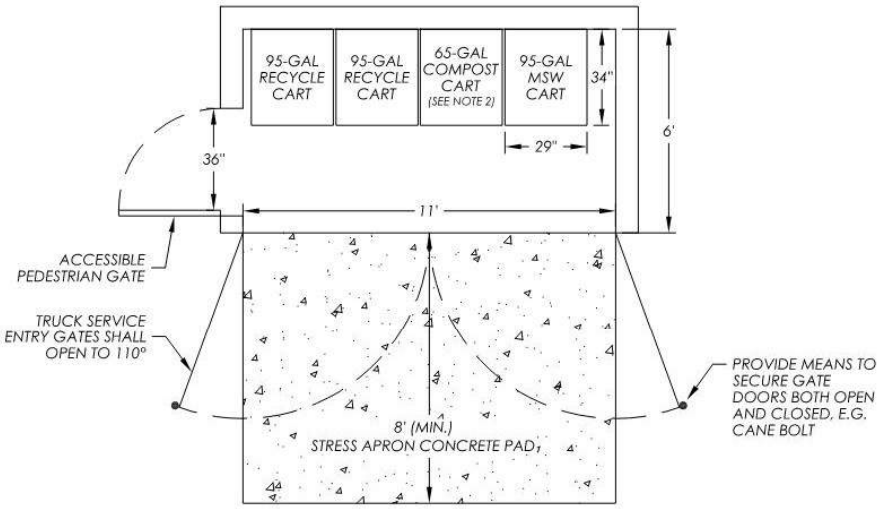


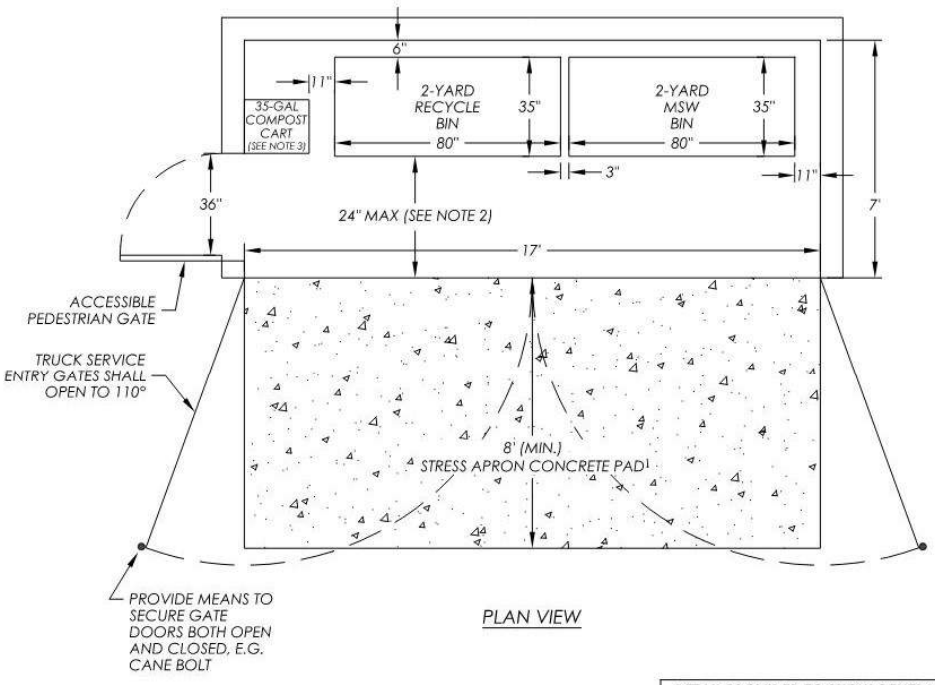
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A CART ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. COMPOST COLLECTION WILL BE REQUIRED PER SB1383 EFFECTIVE JANUARY 2022.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: CART ENCLOSURE LAYOUT (EXHIBIT A)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1A	
	REVISED DATE: 09/2021		



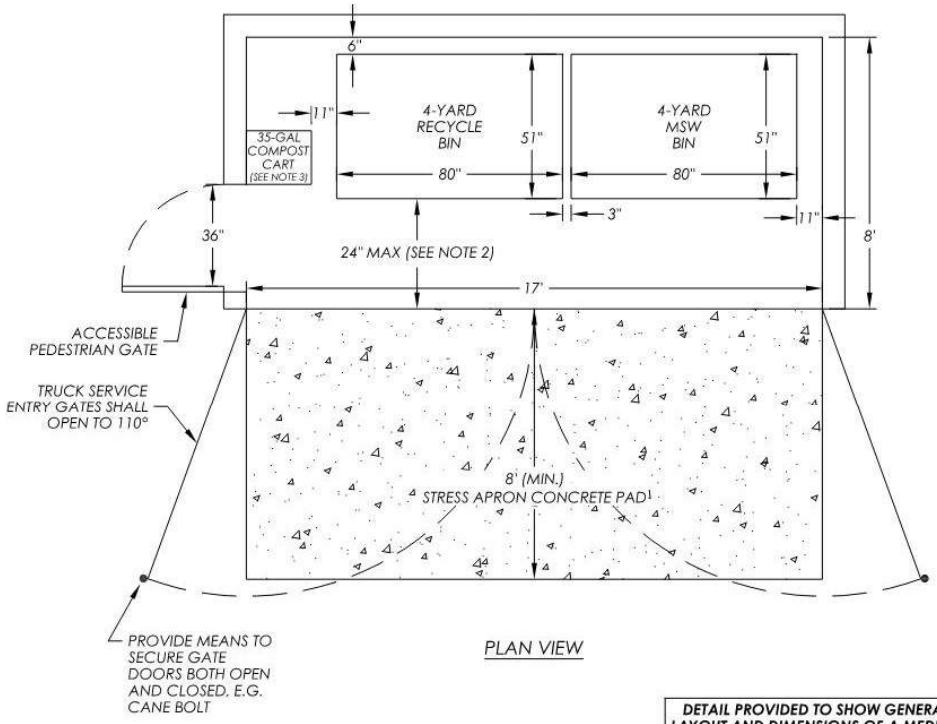
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A SMALL BIN ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.
3. COMPOST COLLECTION WILL BE REQUIRED PER SB1383 EFFECTIVE JANUARY 2022.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: SMALL BIN ENCLOSURE LAYOUT (EXHIBIT B)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1B	
	REVISED DATE: 09/2021		



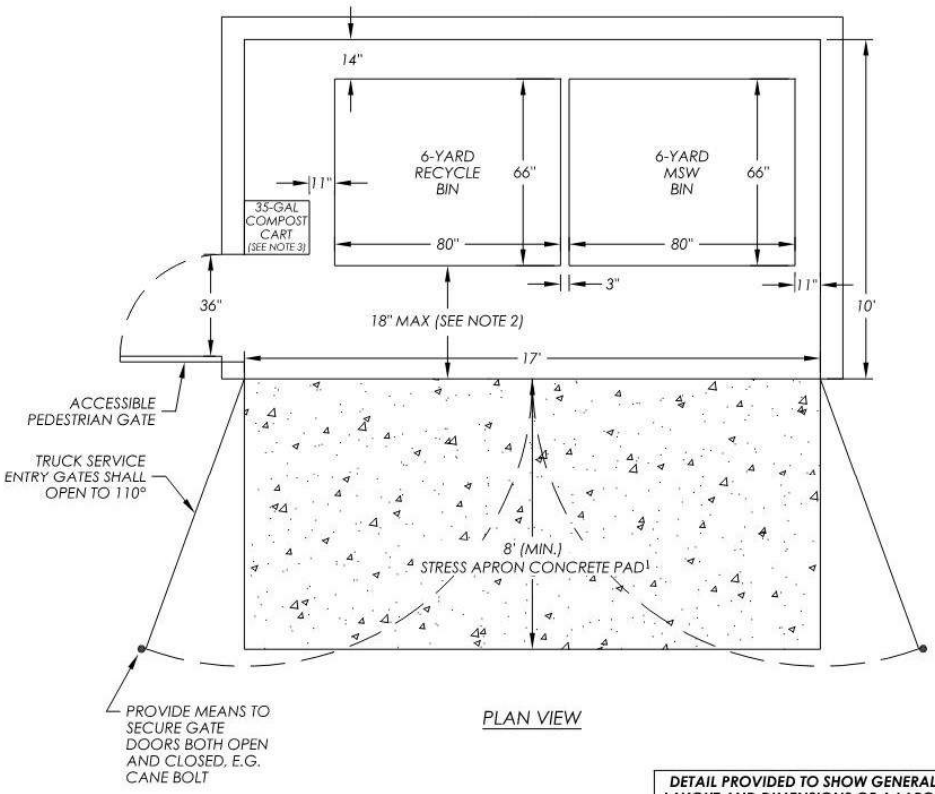
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A MEDIUM BIN ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.
3. COMPOST COLLECTION WILL BE REQUIRED PER SB1383 EFFECTIVE JANUARY 2022.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: MEDIUM BIN ENCLOSURE LAYOUT (EXHIBIT C)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1C	
	REVISED DATE: 09/2021		



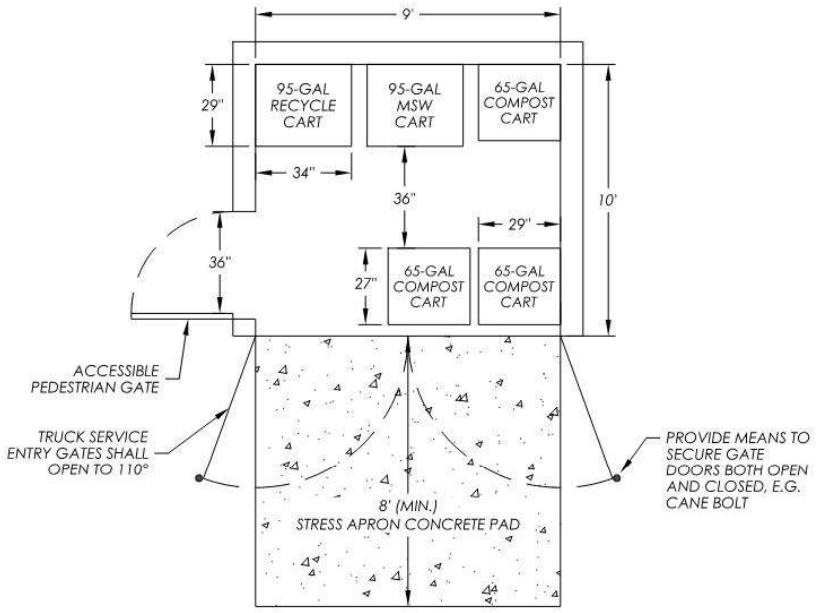
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A LARGE BIN ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.
3. COMPOST COLLECTION WILL BE REQUIRED PER SB1383 EFFECTIVE JANUARY 2022.

CITY OF NAPA			UTILITIES DEPARTMENT	
TITLE: LARGE BIN ENCLOSURE LAYOUT (EXHIBIT D)	DRAWN BY:	DEH	CHECKED BY:	SL
	APPROVAL DATE:	01/06/22	APPROVED BY:	KM
	SCALE:	NONE	DRAWING NO.	SWR-1D
	REVISED DATE:	09/2021		



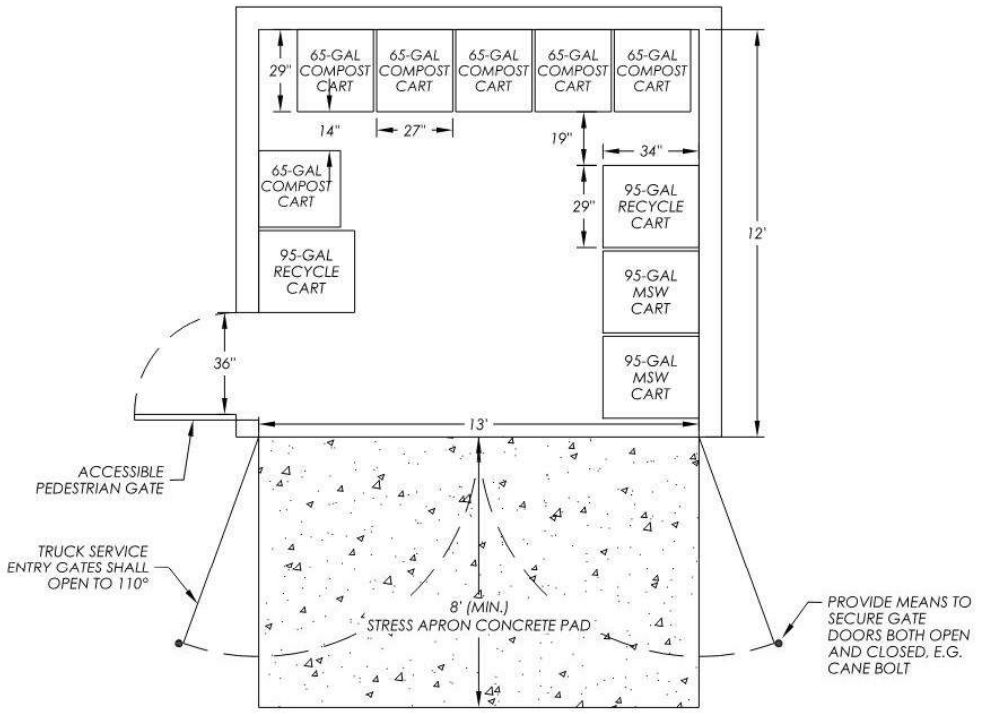
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF AN EXTRA SMALL FOOD ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. DRAIN CONNECTION TO NAPA SANITATION DISTRICT REQUIRED. SEE NAPA SANITATION DISTRICT STANDARDS FOR REQUIREMENTS.
2. COMPOST COLLECTION WILL BE REQUIRED PER SB1383 EFFECTIVE JANUARY 2022.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: EXTRA SMALL FOOD ENCLOSURE LAYOUT (EXHIBIT E)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1E	
	REVISED DATE: 09/2021		



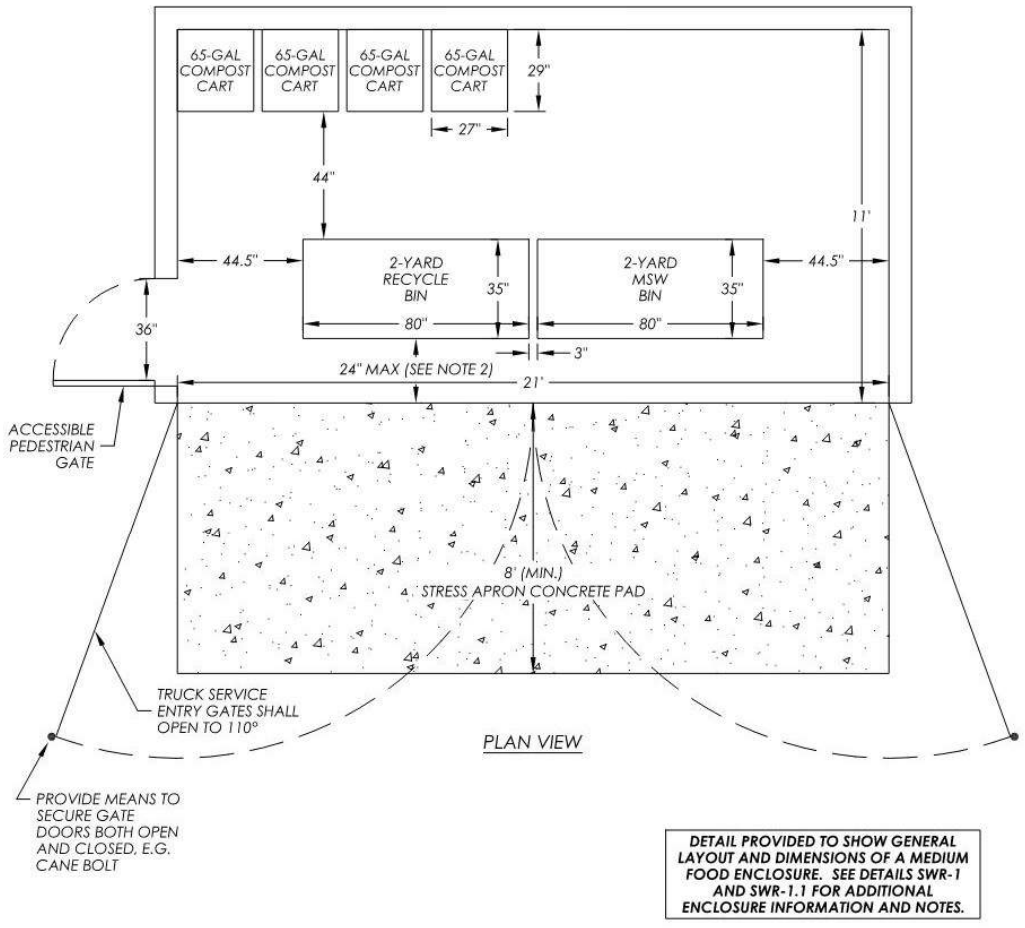
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A SMALL FOOD ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. DRAIN CONNECTION TO NAPA SANITATION DISTRICT REQUIRED. SEE NAPA SANITATION DISTRICT STANDARDS FOR REQUIREMENTS.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: SMALL FOOD ENCLOSURE LAYOUT (EXHIBIT F)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1F	
	REVISED DATE: 09/2021		

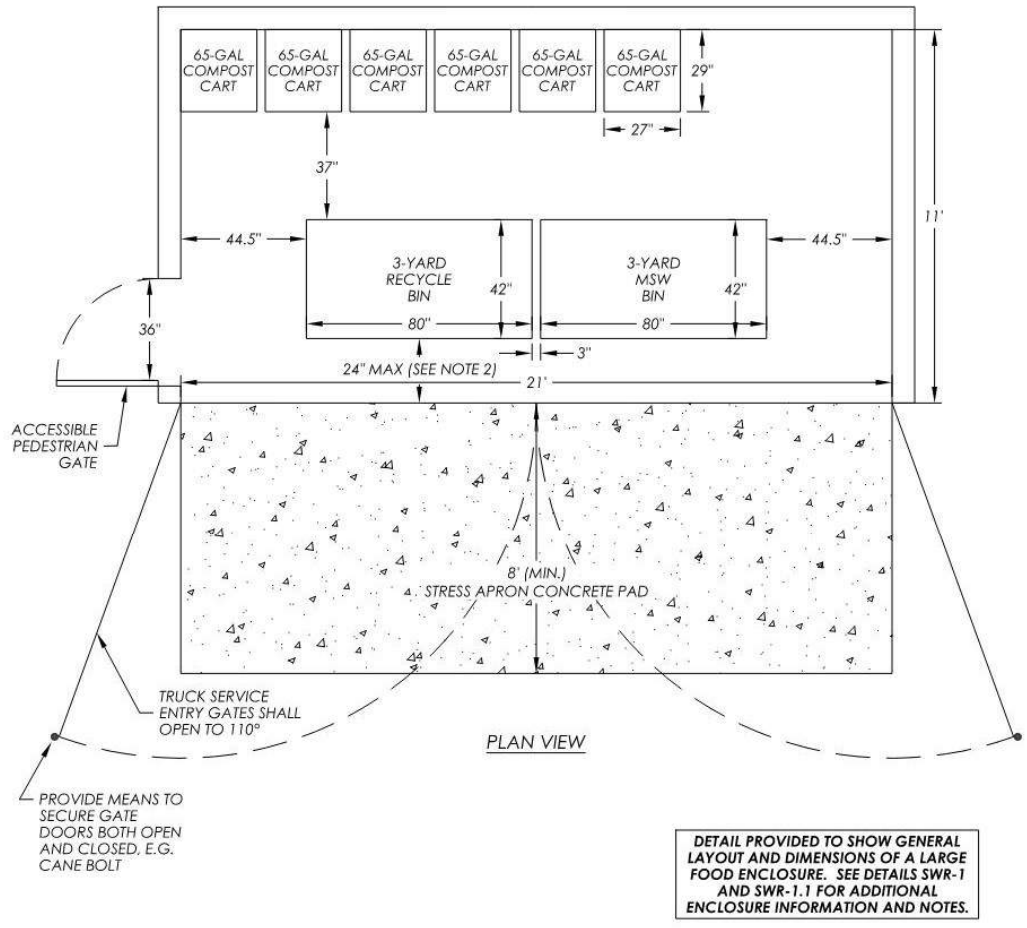


DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A MEDIUM FOOD ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: MEDIUM FOOD ENCLOSURE LAYOUT (EXHIBIT G)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1G	
	REVISED DATE: 09/2021		

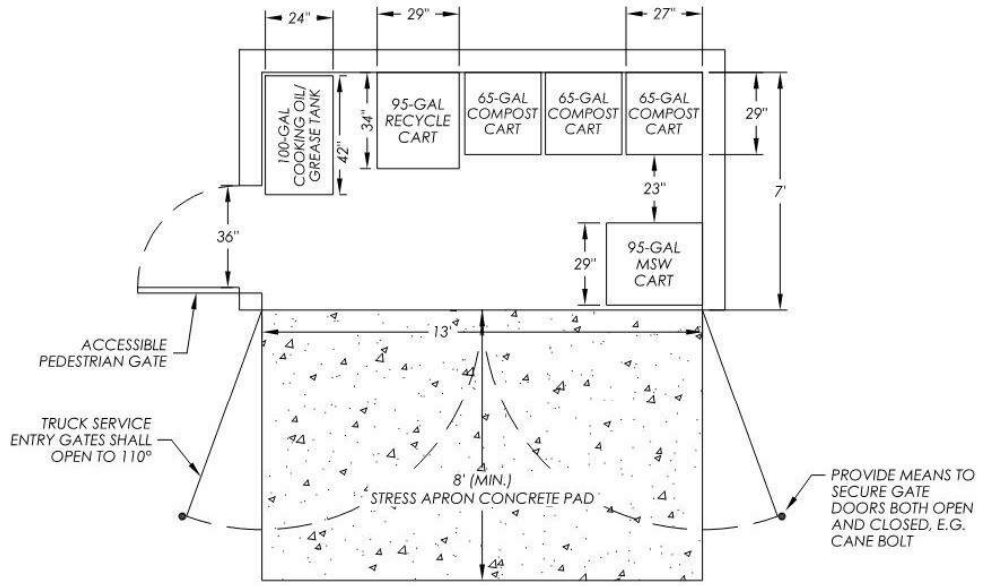


DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A LARGE FOOD ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: LARGE FOOD ENCLOSURE LAYOUT (EXHIBIT H)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1H	
	REVISED DATE: 09/2021		



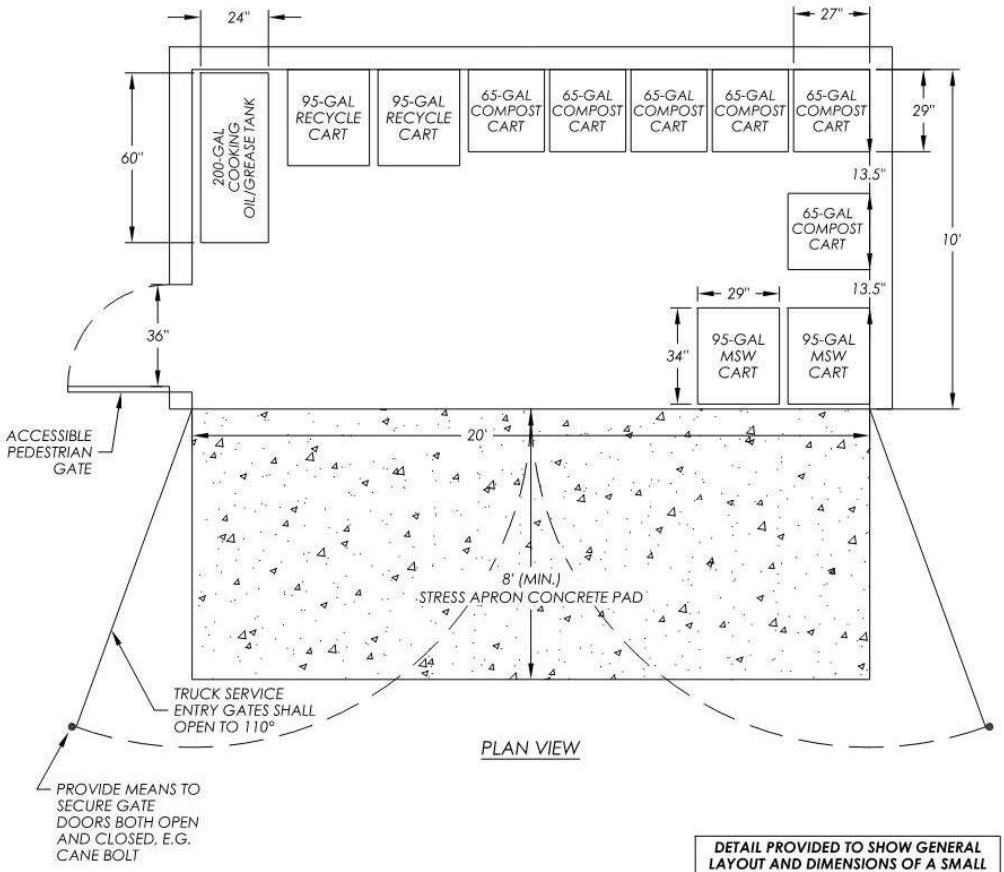
PLAN VIEW

DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF AN EXTRA SMALL FOOD/OIL ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. DRAIN CONNECTION TO NAPA SANITATION DISTRICT REQUIRED. SEE NAPA SANITATION DISTRICT STANDARDS FOR REQUIREMENTS.

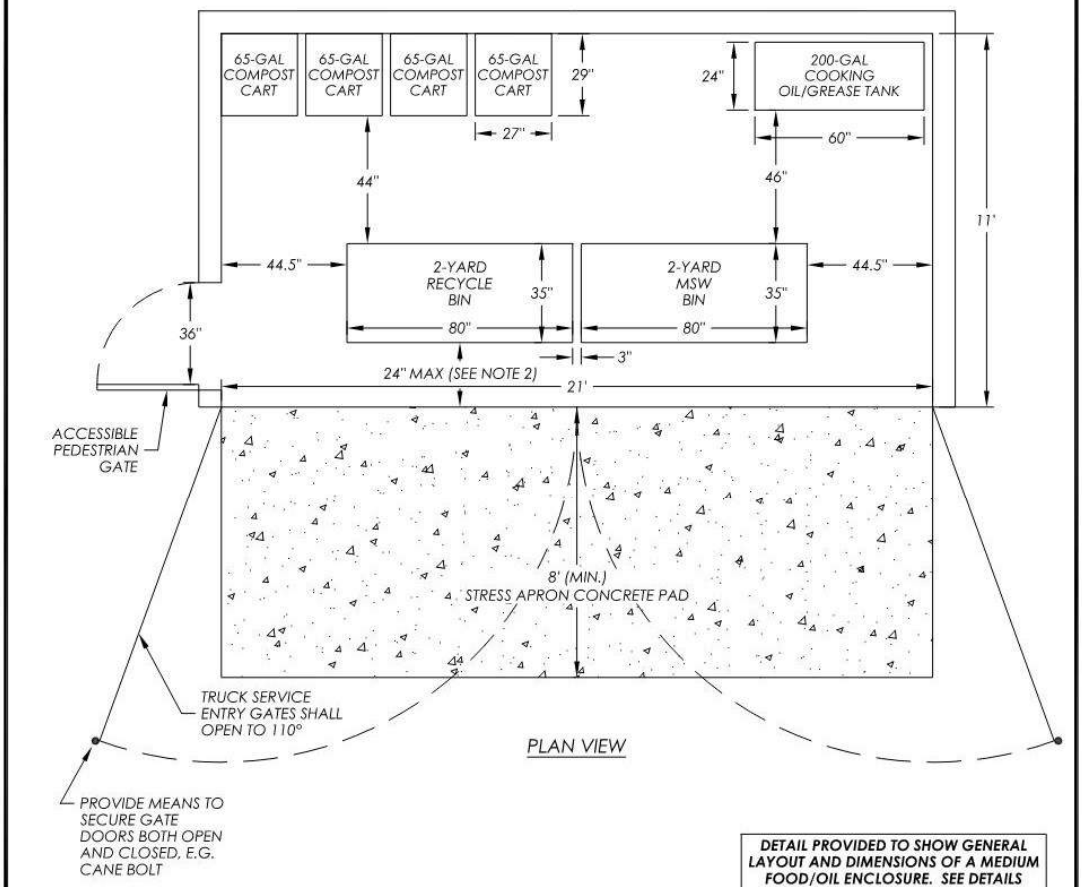
CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: EXTRA SMALL FOOD/OIL ENCLOSURE LAYOUT (EXHIBIT I)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-11	
	REVISED DATE: 09/2021		



NOTES

1. DRAIN CONNECTION TO NAPA SANITATION DISTRICT REQUIRED. SEE NAPA SANITATION DISTRICT STANDARDS FOR REQUIREMENTS.

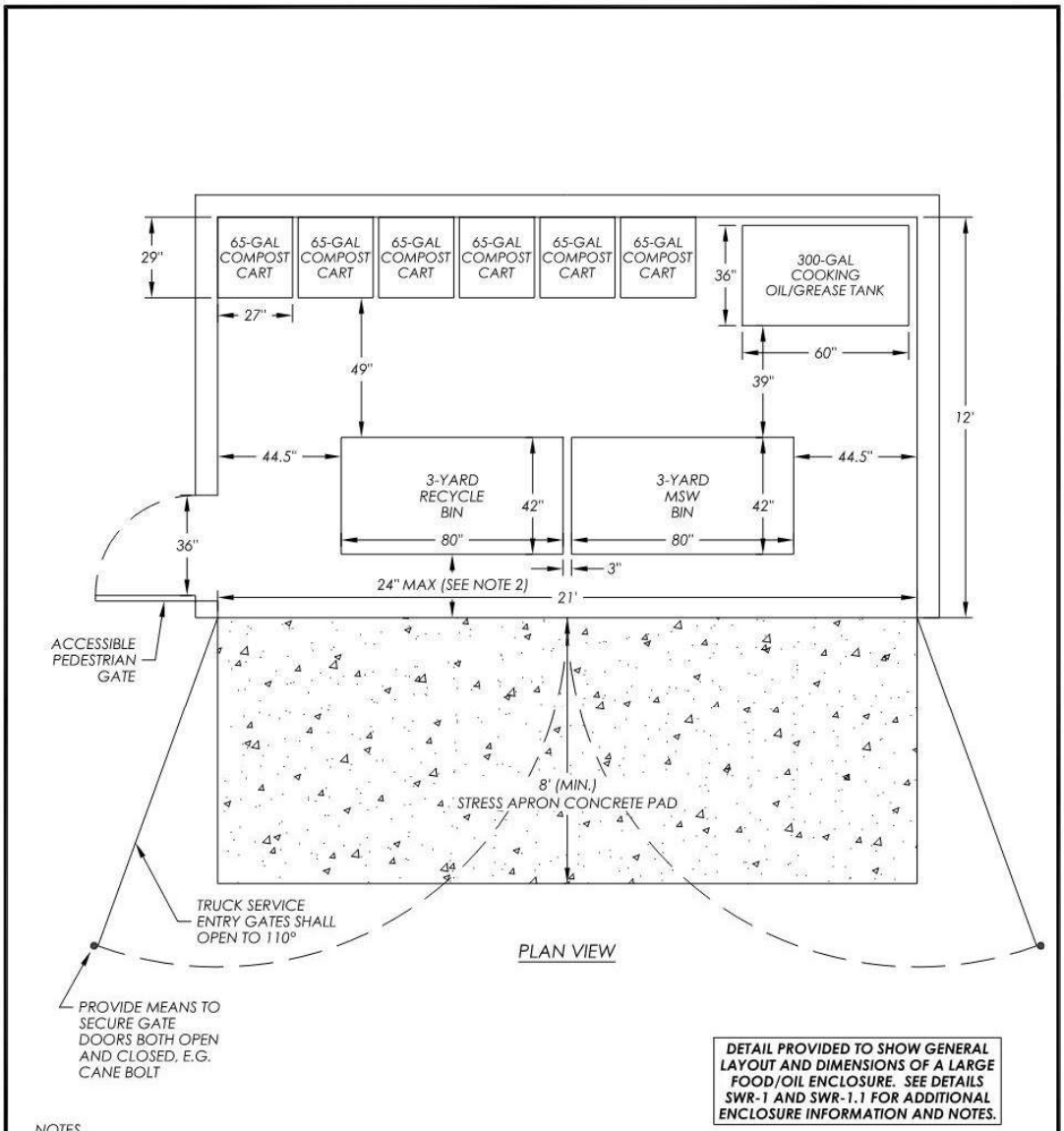
CITY OF NAPA			UTILITIES DEPARTMENT
TITLE: SMALL FOOD/OIL ENCLOSURE LAYOUT (EXHIBIT J)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1J	
	REVISED DATE: 09/2021		



NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

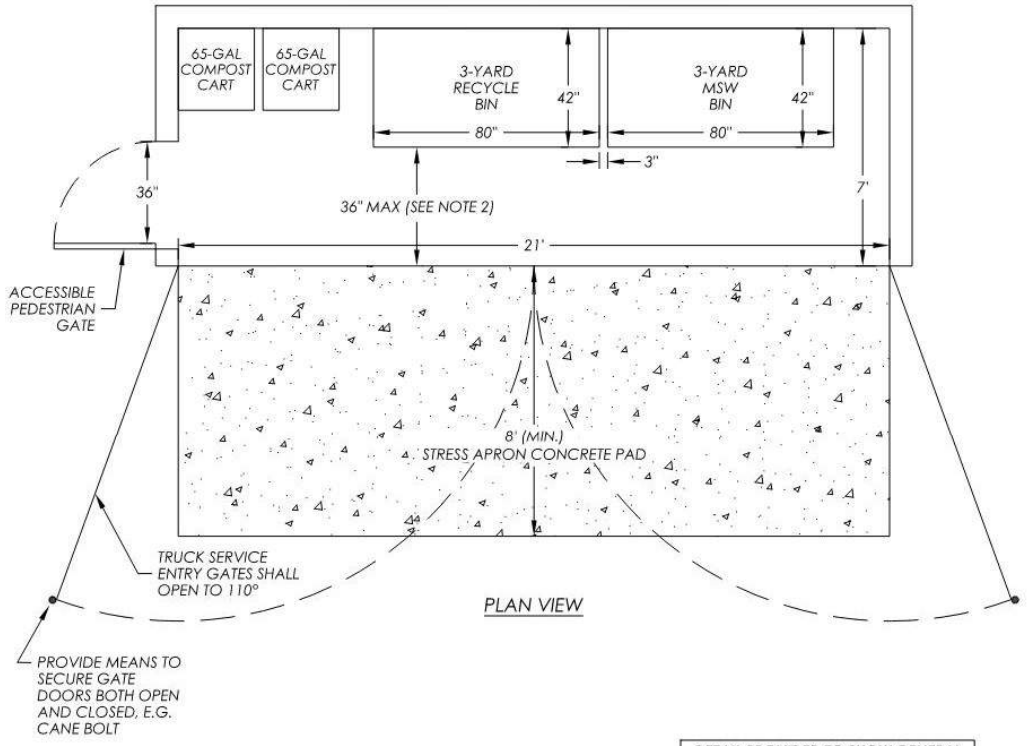
CITY OF NAPA			UTILITIES DEPARTMENT	
TITLE: MEDIUM FOOD/OIL ENCLOSURE LAYOUT (EXHIBIT K)	DRAWN BY:	DEH	CHECKED BY:	SL
	APPROVAL DATE:	01/06/22	APPROVED BY:	KM
	SCALE:	NONE	DRAWING NO.	SWR-1K
	REVISED DATE:	09/2021		



NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE LARGE FOOD/OIL ENCLOSURE LAYOUT (EXHIBIT L)	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1L	
	REVISED DATE: 09/2021		

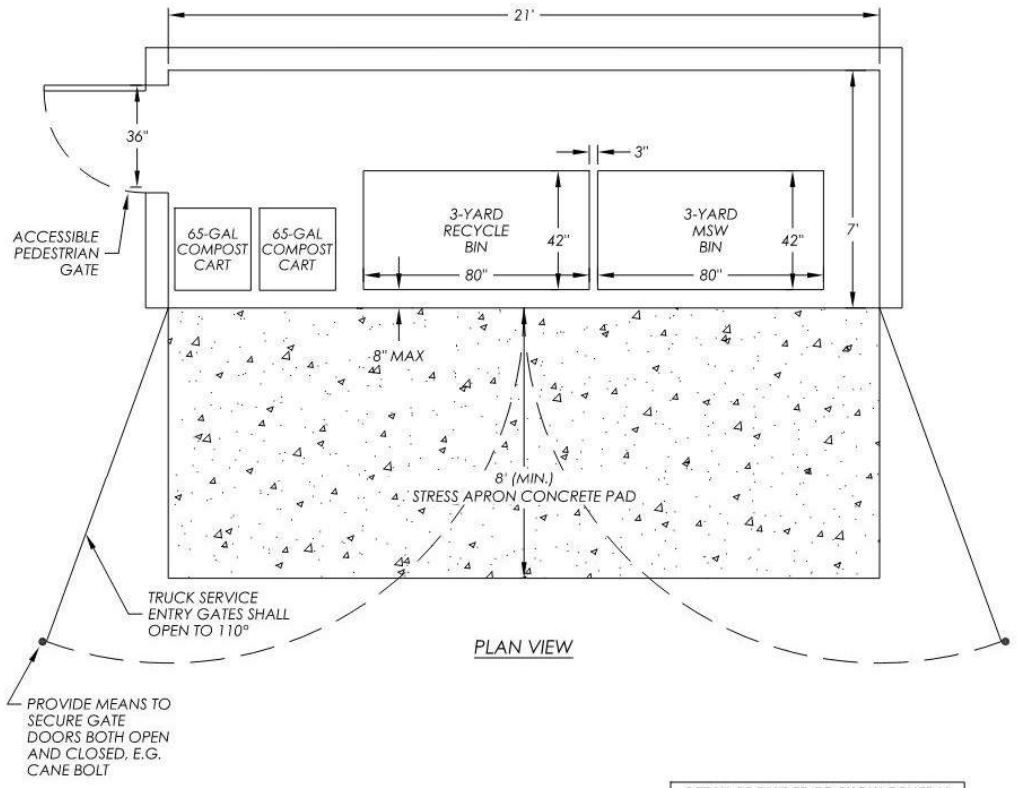


DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A SMALL BIN ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. FOR ENCLOSURES WITH NO ROOF. FOR ENCLOSURES WITH ROOF, SEE CITY STD. SWR-1M.2, BINS SHALL BE PLACED MAXIMUM 8" FROM VEHICLE ACCESS DOORWAY. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: BIN PLACEMENT WITHOUT ROOF	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1M	
	REVISED DATE: 09/2021		



DETAIL PROVIDED TO SHOW GENERAL LAYOUT AND DIMENSIONS OF A SMALL BIN ENCLOSURE. SEE DETAILS SWR-1 AND SWR-1.1 FOR ADDITIONAL ENCLOSURE INFORMATION AND NOTES.

NOTES

1. GRADE OF ENCLOSURE PADS SHALL BE FLAT SUCH THAT NO STORMWATER SHALL ESCAPE THE ENCLOSURE IF COMMINGLED WITH MUNICIPAL SOLID WASTE.
2. ENCLOSURES WITH ROOFS SHALL ACCOUNT FOR VERTICAL CLEARANCES REQUIRED FOR OPENING LIDS OF BINS WITHIN ENCLOSURE.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: BIN PLACEMENT WITH ROOF	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-1N	
	REVISED DATE: 09/2021		

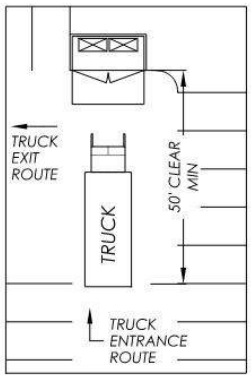
NO PARKING SIGN

PROPERTY OWNER CONTACT SIGN

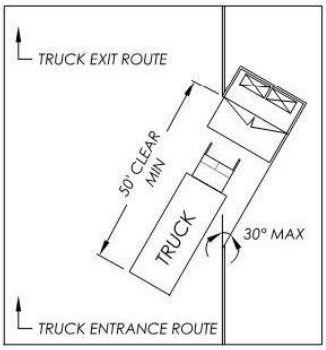
NOTES

1. "NO PARKING" SIGNS SHALL EITHER BE INSTALLED PERMANENTLY AFFIXED TO EACH GATE OR PAINTED ON EACH GATE IN LETTERS NO SMALLER THAN 6-INCHES IN HEIGHT.
2. A MINIMUM 12-INCH BY 18-INCH SIGN WITH A MINIMUM 1-INCH LETTERING INDICATED CONTACT INFORMATION FOR THE PROPERTY OWNER AND/OR MANAGEMENT COMPANY RESPONSIBLE FOR MAINTENANCE OF THE ENCLOSURE AREA (NAME/PHONE NUMBER) SHALL BE PERMANENTLY AFFIXED TO ONE OF THE FRONT GATES OF THE ENCLOSURE.
3. SIGNS ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
4. SIGNS ARE TO BE POSTED SO THE BOTTOM OF THE SIGN IS A MINIMUM OF 48-INCHES ABOVE GROUND LEVEL.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE: ENCLOSURE SIGNAGE	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-2	
	REVISED DATE: 09/2021		



PREFERRED ALIGNMENT

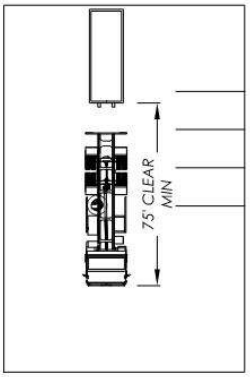


ACCEPTABLE ANGLED ACCESS

NOTES

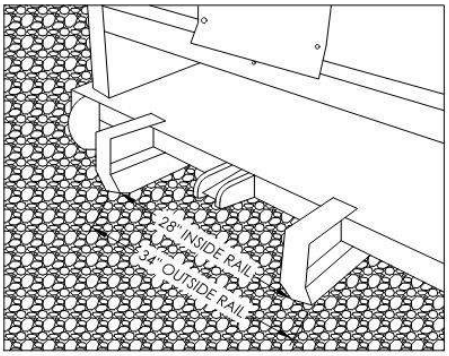
1. MINIMUM REQUIRED DRIVE APPROACH AREA SHALL PROVIDE CLEAR ACCESS FOR GARBAGE TRUCKS. SEE CITY STANDARD DETAIL SWR-4 FOR COLLECTION CLEARANCES.
2. A MINIMUM OF 50 FEET IS REQUIRED FOR ACCESS TO TRASH ENCLOSURE BINS. A MINIMUM OF 75 FEET IS REQUIRED FOR ACCESS TO COMPACTORS AND ROLL-OFF BOXES. SEE CITY STANDARD DETAIL SWR-4 FOR COLLECTION CLEARANCES.
3. ACCESS AREA TO ENCLOSURE SHALL BE CAPABLE OF WITHSTANDING VEHICLE WEIGHTS EXCEEDING 60,000 POUNDS.
4. THE TURNING RADIUS SHALL BE ADEQUATE FOR A 3-AXLE TRUCK. A DETAIL OF THE TURNING RADIUS SHALL BE PROVIDED ON PLANS SUBMITTED.

CITY OF NAPA		UTILITIES DEPARTMENT	
TITLE TRUCK ACCESS - BIN COLLECTION	DRAWN BY: DEH	CHECKED BY: SL	
	APPROVAL DATE: 01/06/22	APPROVED BY: KM	
	SCALE: NONE	DRAWING NO. SWR-3	
	REVISED DATE: 09/2021		



REQUIRED CLEARANCES FOR ROLL-OFF VEHICLE	
DESCRIPTION	**DIMENSION**
VERTICAL (APPROACH & EXIT)	14-FEET HIGH
VERTICAL (RAILS RAISED)	25-FEET HIGH
LATERAL	10-FEET LONG
SERVICE AREA LENGTH (DIRECT APPROACH)	75-FEET LONG

ROLL-OFF CONTAINERS



REQUIRED CLEARANCES FOR COMPACTORS	
DESCRIPTION	**DIMENSION**
VERTICAL (APPROACH & EXIT)	14-FEET HIGH
VERTICAL (RAILS RAISED)	25-FEET HIGH
SERVICE AREA LENGTH (DIRECT APPROACH)	75-FEET LONG
LATERAL	2-FEET AROUND COMPACTOR

COMPACTORS

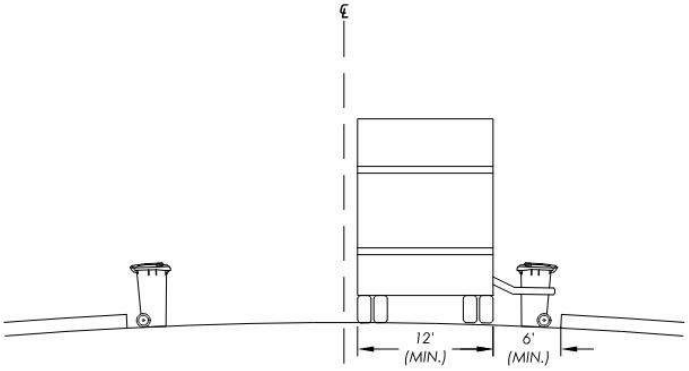
NOTES

1. A MINIMUM OF 50 FEET IS REQUIRED FOR ACCESS TO TRASH ENCLOSURE BINS. A MINIMUM OF 75 FEET IS REQUIRED FOR ACCESS TO COMPACTORS AND ROLL-OFF CONTAINERS.
2. ROLL-OFF BOX COLLECTION LOCATED AT A LOADING DOCK MUST HAVE BUMPER PADS INSTALLED TO AVOID UNDUE DOCK DAMAGE FROM THE HEAVY CONTAINER.
3. ROLL-OFF CONTAINERS SHALL BE PLACED ON A LEVEL SURFACE.
4. CONTACT THE CITY'S AUTHORIZED CONTRACTOR AT (707) 255-5200 FOR AN ON SITE PLACEMENT INSPECTION AND BEFORE INSTALLING ANY LOADING DOCK BUMPER RAILS.
5. ALL COMPACTORS MUST HAVE 28 INCHES INSIDE RAIL DIMENSIONS AND 34 INCHES EXTERIOR RAIL DIMENSIONS.
6. COMPACTORS MAY REQUIRE AN ELECTRICAL OUTLET.
7. COMPACTORS MUST BE LEAK PROOF TO PREVENT DISCHARGE INTO THE CITY'S STORM DRAIN SYSTEM.
8. CONTACT THE CITY'S AUTHORIZED CONTRACTOR AT (707) 255-5200 PRIOR TO PURCHASING, RENTING, OR INSTALLING A COMPACTOR TO ENSURE SERVICING COMPATIBILITY WITH HAULING VEHICLES.
9. COMPACTORS PLACED INSIDE A BUILDING SHALL PROVIDE MINIMUM CLEARANCES AS OUTLINED ABOVE.

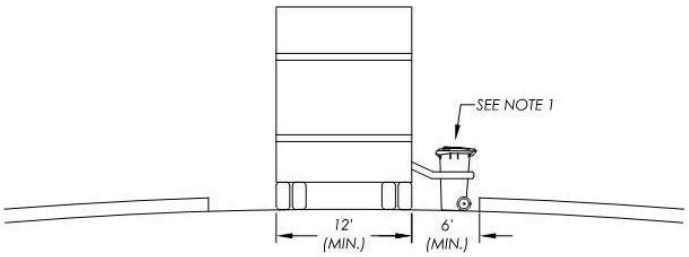
CITY OF NAPA — UTILITIES DEPARTMENT

TITLE: COLLECTION CLEARANCES (ROLL-OFF BINS & COMPACTOR)

DRAWN BY:	DEH	CHECKED BY:	SL
APPROVAL DATE:	01/06/22	APPROVED BY:	KM
SCALE:	NONE	DRAWING NO.	SWR-4
REVISED DATE:	09/2021		



TWO-WAY STREETS



ONE-WAY STREETS

NOTES

1. ONE-WAY STREETS WITH CART SERVICING SHALL BE A MINIMUM OF 18-FEET WIDE AND ALLOW SERVICING ON THE RIGHT SIDE OF THE ROADWAY.
2. CARTS SHOULD NOT OBSTRUCT BIKE LANES OR SIDEWALKS.
3. SPACE SHALL BE PROVIDED TO ALLOW PLACEMENT OF CARTS AT LEAST TWO FEET AWAY FROM OTHER CARTS AND FOUR TO SIX FEET FROM OTHER OBJECTS (E.G. CARS, TREES).

CITY OF NAPA			UTILITIES DEPARTMENT	
TITLE CART SERVICE CLEARANCES	DRAWN BY:	DEH	CHECKED BY:	SL
	APPROVAL DATE:	01/06/22	APPROVED BY:	KM
	SCALE:	NONE	DRAWING NO.	SWR-5
	REVISED DATE:	09/2021		

APPENDIX A- MSW, RECYCLABLE MATERIALS & COMPOSTABLES CONTAINERS

The City's Authorized Contractor provides collection service and containers. Customers have the option of using carts, bins, roll-off boxes and/or compactors for the collection of MSW and recyclable materials. 65-gal carts are utilized for compostables. The Contractor provides all containers with the only exception being that businesses can use their own compactors provided they are compatible with the Authorized Contractor's fleet of automated collection vehicles.

Container Conversion Table	
1 gallon	0.134 cubic feet
27 cubic feet	1 cubic yard
1 cubic yard	203 gallons or 150 lbs.

Cart Collection

Three cart sizes are available for the storage of recyclable materials (blue carts) and MSW (black carts). Commercially collected compostables utilize 65-gallon (green) carts. Cart service may be an excellent option for low-volume generators or for businesses with limited space such as downtown Napa locations. Carts are easily maneuverable in alleys and small enclosures. The chart below lists the dimensions for the various sized carts that are available.

A 95-gallon recyclable materials cart, 65-gallon compostables cart & 35-gallon MSW cart are shown above (from left to right)

Cart Dimensions					
Cart Size	**1 cubic yard equivalent to:**	**Height**	**Width**	**Depth**	**Footprint (rounded)**
35 gallons	6 carts	39"	19"	23"	3 sq. ft.
65 gallons	3 carts	42"	27"	29"	5 sq. ft.
95 gallons	2 carts	47"	29"	34"	6 sq. ft.

Front-load Bin Collection

Commercial bins for MSW and recyclable materials come in sizes ranging from 1 1/2 cubic yards to 6 cubic yards. Sizes 1 1/2 cubic yards to 4 cubic yards are equipped with wheels for maneuvering, while 6 cubic yard bins are stationary (no wheels). If a large-sized stationary bin without wheels is used, the bin MUST be directly accessible by collection trucks and be placed a maximum of 8" from vehicle gate doors if the enclosure has a roof and a maximum of 24" if the enclosure does not have a roof. The chart below lists the dimensions for each front-load bin available.

6-yd bins are not available with wheels

Front-Load Container Dimensions				
Bin Size	**Height**	**Depth**	**Length***	**Footprint (rounded)**
1 ½ cubic yards	43"	30"	80"	15 sq. ft.
2 cubic yards	50"	35"	80"	18 sq. ft.
3 cubic yards	59"	42"	80"	21 sq. ft.
4 cubic yards	65"	51"	80"	26 sq. ft.
6 cubic yards	69"	66"	80"	33 sq. ft.

* The 80" includes 8" to overall length of front-load bins to include 4" pockets on each side.

*Cart to Bin Capacity (How many carts fit in a bin?)	
# of 95-gal Carts	**Bin Size**
3 carts =	1.5 cubic yards
4 carts =	2 cubic yards
6 carts =	3 cubic yards
8 carts =	4 cubic yards
12 carts =	6 cubic yards

*Above chart demonstrates capacity only and does not indicate that carts and bins will take up the same amount of enclosure space. Refer to sizing charts for container dimensions.

Front load container bins from left to right (4-yd, 3 yd, 2 yd. & 1 1/2 yd.) are shown above

Roll-off Box Collection

Roll-off boxes are available in four sizes (10, 20, 30 & 40 cubic yards.). This type of container is most frequently used at construction sites, but is also designed for high volume users. They may be placed directly behind a building where space is available or at a loading dock to allow loading from above. If it will be placed at a loading dock, bumper pads must be installed to avoid undue dock damage from the heavy container.

Roll-off containers must be placed on a level surface. If placed on an incline, roll-away protection is required. In-street placement requires the user to obtain an encroachment permit from the Public Works Department and requires a minimum of two parking spaces plus room for the collection vehicle to maneuver while servicing. A 75' minimum is required.

Please contact the City's Authorized Contractor at (707) 255-5200 for an on site placement inspection and before installing any loading dock bumper rails.

The chart below lists the required clearances for roll-off vehicles & container dimensions:

Required Clearances for Roll-Off Vehicle	
Vertical (Approach & Exit)	14' high
Vertical (Rails raised w/bin)	25' high
Lateral	10' wide
Service Area Length (direct approach w/bin)	75' long

Roll-Off Container Dimensions				
Size	**Height**	**Width**	**Length**	**Footprint**
10 cubic yards	4'	8'	14'	112 sq. ft.
20 cubic yards	6'	8'	18'	144 sq. ft.
30 cubic yards	7'	8'	20'	160 sq. ft.
40 cubic yards	8'	8'	22'	176 sq. ft.

Compactor Collection

Businesses may choose to utilize their own compactor to reduce volume before transport and to minimize scavenging. For improved efficiency, a compactor should be used in place of a debris box when one location requires a 6 cubic yard bin that needs to be emptied more than 3 days per week. Larger sized compactors require a roll-off truck to be emptied. The entire unit must be picked up with a roll-off truck and be taken away. A container will not be available for 1-2 hours during this time. Some smaller compactors (4 cubic yards and smaller) can be emptied on-site using a front load truck so the unit does not have to leave the property.

All compactors must have inside rail dimensions of 28", exterior rail dimensions of 34" and a direct approach of 75'. Additionally, most require a 220V double phase electrical outlet. If a business is using a compactor for compostables, it must be leak proof to prevent discharge into the City's storm drain system. Please contact the City's Authorized Contractor at (707) 255-5200 before purchasing, renting or installing a compactor to ensure servicing compatibility with hauling vehicles.

Keep in mind that compactors are large pieces of equipment that need to have adequate space for both the receiver and the compaction equipment. The chart below provides the clearances required for compactors.

Required Clearances for Compactors	
Vertical (Approach & Exit)	14' high
Vertical (Rails raised w/compactor)	25' high
Lateral	2' around compactor
Service Area Length	75' long

Compactors vary in size depending on the capacity and manufacturer. The preceding charts list the capacity and approximate dimensions of various sized compactors that are available. It is important to obtain actual dimensions from the manufacturer or vendor. Additionally, keep in mind that compostables are very liquid in content and cannot be loaded above the compactor blade of the hopper. This means the actual capacity for compostables is less than the size of the compactor.

Front Load Truck Emptied Compactor Dimensions*			
Compactor Size	**Height**	**Width**	**Depth**
2 cubic yards	8.5’	8’	5’
3 cubic yards	7’	8’	7’
4 cubic yards	8’	8’	9’

*Dimensions listed are approximate. Exact specifications of the unit should be obtained from the manufacturer or vendor to determine enclosure dimensions.

Vertical Compactors such as the one shown above are excellent for small spaces and require a front load truck to empty.

Roll-off Truck Emptied Compactor Dimensions*			
Compactor Size	**Height**	**Width**	**Length**
6 cubic yards	8’	8’	12’
10 cubic yards	8’	8’	14’
15 cubic yards	8’	8’	17’
20 cubic yards	8’	8’	20’

* Dimensions listed are approximate. Exact specifications of the unit should be obtained from the manufacturer or vendor to determine enclosure dimensions.

Roll-off compactors are required for compactors over 6 yards.

Cooking Oil/Grease Collection Containers

Food Facilities that generate cooking oil and grease for disposal must collect oil and grease in a separate container designed specifically for the collection of these two items. Disposal of oil and grease in a MSW collection container is not allowed. Many Food Facilities contract with a commercial oil and grease management company that will provide an exterior collection container. Since the container must be housed within the enclosure, the container size must be considered when determining the size of the enclosure. Below is a chart listing the most common sizes of cooking oil/grease containers.

Oil/Grease Container Dimensions*			
Container Size	**Height**	**Width**	**Depth**
42 gallon (eco tub)	30”	20”	24”
55 gallon (eco tub)	31”	19”	30”
78 gallon (eco tub)	30”	26”	31”
55 gallon (drum)	34”	23” diameter	
100 gallon	36”	24”	42”
200 gallon	36”	24”	60”
300 gallon	36”	36”	60”

* Exact specifications of the oil/grease container should be obtained from the manufacturer or vendor.

An Eco-tub is an option for businesses that generate a small amount of cooking oil/grease

Cooking oil/grease containers are available in sizes as large as 300 gallons

APPENDIX B – BUILDING AND OPERATIONAL BEST PRACTICES

The following appendix provides useful information to assist builders and business owners with implementing Green Building Practices and establishing Operational Best Practices at businesses and multi-family complexes. These environmental programs and practices can save businesses money and help them to stay in compliance with State and City requirements while creating a positive green image for the business.

State of California Green Building Standards Code (CALGreen Code)

The California Green Building Standards Code (CALGreen Code) is Part 11 of the California Building Standards Code and is the first statewide "green" building code in the US. CALGreen is a building code that requires, at a minimum, that new buildings and renovations in California meet certain sustainability and ecological standards. Every new building built after January 1, 2011 must meet a certain baseline of efficiency and sustainability standards.

The purpose of CALGreen is to improve public health, safety and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices in; (1) planning and design; (2) energy efficiency; (3) water efficiency and conservation; (4) material conservation and resource efficiency; and (5) environmental quality.

The City has adopted High Performance Building Standards and a Construction & Demolition Debris Program for the enforcement of CALGreen.

City of Napa High Performance Building Standards

The City's High Performance Building Standards and Checklist contain the requirements that are applied to all covered projects as defined in the NMC. (See NMC Chapter 15.30) Specific mandatory requirements for recycling by occupants are in the Napa High Performance Building Standards Nonresidential Checklist under the category "Building Maintenance and Operation."

Construction & Demolition Debris (C&DD) Program

The State of California and the City of Napa require that construction and demolition projects participate in a Construction & Demolition Debris (C&DD) program. The City of Napa's Construction & Demolition Debris Ordinance (NMC Chapter 15.32) requires all projects that meet one of the following criteria to divert 50% of all C&DD material and 80% of all concrete and asphalt generated:

- Projects that exceed $100,000 in building valuation;
- Projects that exceed 5,000 sq. ft. of new, improved or remodeled area;
- A demolition exceeding 5,000 sq. ft. in floor area; or
- All City projects for which a building permit would normally be issued.

Separating C&DD materials keeps valuable commodities out of the landfill and can save a business money when materials such as carpet, concrete, asphalt, dirt, wood, metals, sheetrock and yard trimmings are separated and reused or recycled. If building materials cannot be reused, please divert C&DD materials to a recycling facility. The following table lists several local facilities that accept a wide variety of C&DD materials. Please call for additional details and pricing. The Napa Recycling & Composting Facility accepts the widest range of materials at low rates.

Leadership in Environmental & Energy Design (LEED) Certification Program

Many local businesses desire to build according to green principles in order to obtain a LEED certification. LEED is a third-party certification program and a nationally accepted benchmark for the design, construction and operation of green buildings. Building owners and operators are provided with the tools they need to have an immediate and measurable impact on their building's performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five areas of human and environmental health: sustainable site development, water conservation, energy efficiency, materials selection and indoor environmental quality. For more information, call (707) 927-3858 or visit www.sustainablenapacounty.org

Bay Area Green Business (BAGB) Program

Napa County is part of the Bay Area Green Business Program. Over 100 businesses and wineries in Napa County have been certified as Green Businesses. Green Businesses benefit from free technical assistance and public promotions, and are seen as leaders in sustainable business. To become a Certified Green Business, the business must be in compliance with all environmental regulations and must implement a minimum number of measures in the following four areas: energy, efficiency, water conservation, pollution prevention and solid waste reduction/recycling. For more information, contact Napa County's Green Business Coordinator at (707) 259-5969 or visit www.greenbiz.ca.gov

FACILITIES TAKING THESE SEPARATED RECYCLABLE ITEMS → *Please call for rates.*	Reusable items	Carpet & padding	Sheetrock	Clean dirt	Concrete, asphalt	Wood, lumber, pallets	Yardwaste	Scrap metal, metal pipe	Appliances	Tires
Napa Recycling & Composting Facility LOW FEES AND EVERYTHING GETS RECYCLED! 820 Levitin Way, American Cyn 707-255-5200; Daily 8am–4pm		X	X		X NO ROCKS OR GRAVEL	X NO PAINTED WOOD, FURNITURE, RAILROAD TIES OR TELEPHONE POLES	X	X	X	X
Devlin Road Reuse & Recycle Center 889B Devlin Road, American Cyn 707-258-9018; Daily 8:30am–3:30pm	X ITEMS IN GOOD CONDITION							X	X	
Devlin Road Recycling & Transfer Station 889 Devlin Rd, American Cyn 707-258-9005; Daily 8am–4pm				X					X	X
Clover Flat Landfill 4380 Silverado Trail, Calistoga 707-963-7988; Tues-Sat 9am–3:45pm, Sun 9am–2:45pm				X	X	X	X	X	X	X
Harold Smith Contractors 800 North Crane Ave, St. Helena 707-963-7977 ext 110; M– F 7am–4:30pm, Sat 8am–2pm				X	X			X		X
Syar Industries 2301 Napa-Vallejo Hwy, Napa 707-252-8711; M–F 7am–3pm					X					
Steel Mill Supply of Napa 659 Napa Junction Road, American Cyn 707-226-3950; M–F 8am–4pm, Sat 8am–11:30am								X	X	

Operational Best Practices

It is important to establish a plan for reducing waste and collecting recyclable materials and/or compostables at the business or multi-family complex. The City of Napa and its Authorized Contractor offer free waste assessments to help local businesses and multi-family complexes implement and improve upon waste diversion and recycling practices. These assessments provide businesses and multi-family complexes with strategies to reduce waste, improve upon recycling, save money and keep businesses and multi-family complexes in compliance. To schedule a free waste assessment, call (707) 257-9200 or email naparecycles@cityofnapa.org

All businesses and multi-family complex programs should utilize the following waste diversion and recycling principles in order to have a successful program:

1. Incorporate indoor space for recycling and composting: Businesses and multi-family complexes should provide adequate indoor space for containers to collect MSW, recyclable materials and compostables (if applicable).

2. Group the collection containers together: All interior collection containers should be placed together so that utilizing the proper container to deposit

compostables or recyclable materials is equally convenient when compared with using the MSW container. Placing containers side by side provides convenience to users, maximizes recycling and decreases contamination (i.e. placing materials in the wrong container).

3. Use consistent colors for collection containers: Color code all interior containers to communicate a clear and consistent message to users regarding what each container is to be used for. Containers for recyclable materials should be blue, commercial compostables containers should be green, and MSW containers should be black. Additionally, all containers should be clearly labeled with graphic instructional signage. The City of Napa provides free interior containers and instructional labels to businesses, schools and multi-family complexes committed to recycling. For more information, call (707) 257-9200 or email naparecycles@cityofnapa.org

4. Provide training to employees and tenants: Provide training on recycling and expected green practices to employees and/or tenants. Include information in employee orientations, policy manuals, lease agreements and Covenants, Codes & Restrictions (CC&Rs) regarding expectations.