SOLID WASTE PLAN GUIDE
& ENCLSOSURE STANDARDS

All applicants for a land use permit are required to submit a solid waste and recycling plan as part of the permit process. The plan must demonstrate those steps the applicants will take to meet the State mandates to reduce or divert waste generated by all residents, tenants, and/or businesses within the City of Visalia.

This Plan Guide includes pre-construction, construction, and operational phases of each project. Some helpful generations guidlines are included as well as some conversations to help assess the level of collection services required for each project.

The City of Visalia Enclsoure Standards detail the standard sizes and offer direction on the deminsions, placement, and construction of the solid waste enclosure(s). This guide summarizes requirements for a waste enclosure as part of overall plan review. For design spcification, refer to the City of Visalia solid waste enclsoure standarda avaiable online at:
www.visalia.city/civicax/filebank/blobload.aspx?BlobID=34595

Project Name:	Project Address:
Applicant Email:	Phone Number:

If you have any questions regarding the *Plan Guide* or the *Enclosure Standards*, please contact:

Nathan Garza
Solid Waste Division
559-713-4532
Nathan.Garza@visalia.city

1/02/20224

PLAN GUIDE

PRE-CONSTRUCTION

_____ Contact the City Planning Department; determine if your project will be required to comply with the Construction & Demolition Recycling Ordinance (Chapter 829.00). If you are covered, complete the necessary paper work.

_____ Get a copy of the Builder's Guide for a list of local recycling facilities from the Planning Department. Reuse dirt, concrete, asphalt, wood, green waste, metals, plastics, etc. on site whenever possible.

_____ Divert unused dirt, concrete, asphalt, wood, green waste, metals, plastics, etc. to a recycling facility DO NOT LANDFILL THESE REUSABLE MATERIALS!

_____ Provide adequate bin enclosure space for solid waste, and recycling collections (PLEASE REFER TO CITY ENCLOSURE STANDARDS).

CONSTRUCTION

_____ Contact the City Planning Department; determine if your project will be required to comply with the Construction & Demolition Recycling Ordinance (Chapter 829.00). If you are covered, complete the necessary paperwork.

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GENERAL

_____ Include solid waste and recycling information in your employee/tenants' orientations, policy manuals, lease agreements and CC&R's.

_____ Color code interior collection containers and provide graphic signs that instruct employees, customers, and/or tenants to separate materials in the containers used to transport recyclables, compostables, and refuse to the exterior enclosure.

_____ Review your operations annually and contact the city for a free waste audit to reduce waste and keep your solid waste account in compliance with State mandated waste diversion laws.

DESIGN

_____ Incorporate adequate space for trash, compost, and recycling bins inside the facilities where waste and recyclables are generated. Incorporate space for trash, recycling, and compost bins in an enclosure where they will be stored for collection services.

_____ **DO NOT STORE ANY OTHER ITEMS IN THE EXTERIOR BIN ENCLOSURE.**
Materials that are currently recycled or composted include:

___ plastic bottles and containers (1-5 & #7) are accepted, (#6 polystyrene materials are not accepted)
___ glass bottles and jars, no ceramic, plate glass or windows
___ mixed paper including junk mail, colored paper, office paper, magazines, newspaper, card board, phone books, etc.
___ wood, dimensional lumber, no treated or painted lumber
___ concrete and asphalt ripping (special bins required)
___ yard wastes including tree leaves, branches, grass clippings, other mixed organics

ESTIMATED WASTE GENERATION

All projects must submit anticipated weekly discard generation levels in cubic yards for garbage, recycling, and organics. There are approximately 200 gallons in one cubic yard.

_____ cubic yards of weekly garbage. This includes items such as broken furniture, broken dishes, polystyrene, diapers, pet waste, rubber materials, along with other items that are not acceptable for recycling or organic collections.

_____ cubic yards of weekly recycling. This includes items such as food scraps, food soiled paper, and plant debris. For a complete list of recyclable materials accepted in Visalia please visit www.GoGreenVisalia.com

_____ cubic yards of weekly organics. This includes items such as food scraps, food soiled paper, and plant debris. For a complete list of recyclable materials accepted in Visalia please visit www.GoGreenVisalia.com

SUBMITTAL REQUIREMENTS:

All applicants required to construct a new or upgraded enclosure shall submit a site plan scaled drawing of the propsed enclosure(s) and include the information in items 1 and 2.

1. Site Plan

☐ Proposed enclosure location and orientation relative to access and egress streets, driveways, and drive aisles.

☐ Propsed truck entry and exit points and proposed routes for servicing garbage, recycling, and organics to and from public streets and within the site. Site plan must show all public streets immediately surrounding the project site.

☐ Widths of streets, entrance, drive aisles, and driveways for service truck access.

☐ Dimensions and slope of reinforced concrete staging areas outside enclosure gates.

2. ENCLOSURE DRAWINGS

☐ Provide detailed drawings of enclosure interior layout showing:
Slope of enclosure pad.

☐ Interior layout and dimensions on enclosure including all curb stops, wall bumpers and bollards.

☐ Location and width of pedestrian door entrance

☐ Location of all plumbing and electrical fixtures

☐ Location of the enclosure gate and its operational dimensions when fully closed and fully opened.

ENCLOSURE STANDARDS

A. BIN SIZES

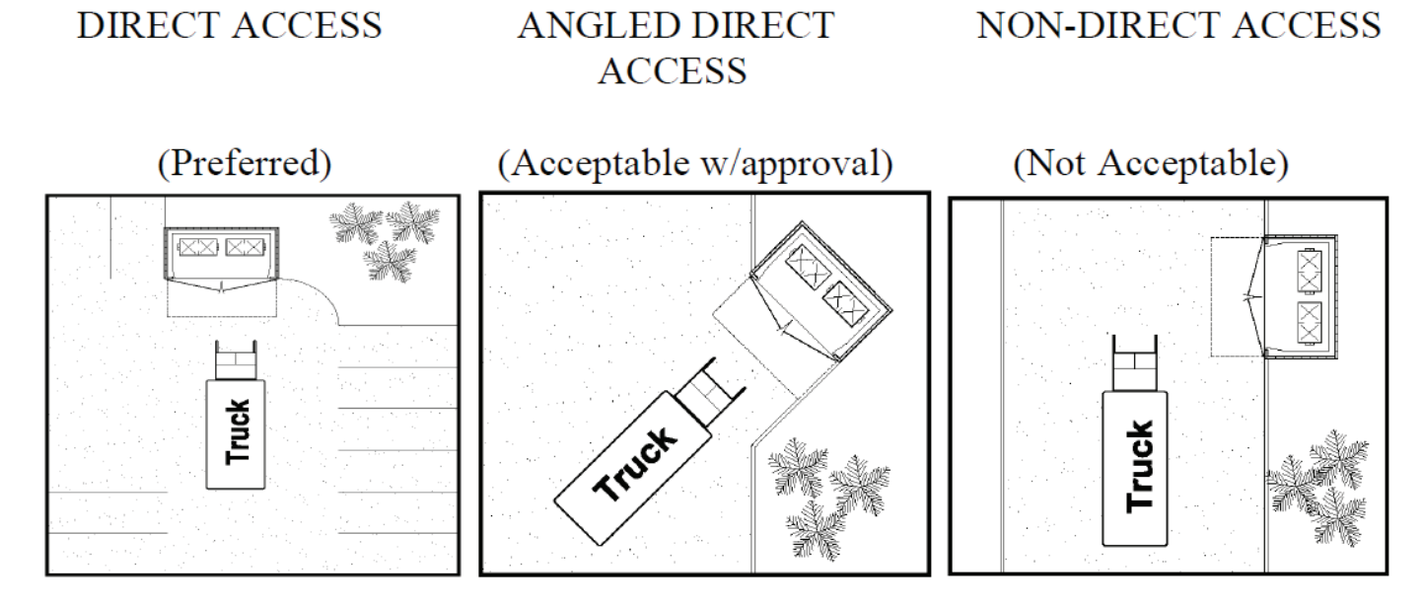
1. Commercial bins for refuse, recycling, or composting come in sizes ranging from 1 cubic yard (Cu. yd.) to 10 cu. yd. Sizes 1 cu. yd. through 4 cu. yd. are equipped with wheels for maneuvering, while 6 cu. yd. - 10 cu. yd. bins are stationary (no wheels). If stationary bins are used, the bins MUST be directly accessible (STABB LOAD) by our collection trucks.

2. Smaller 90-gallon carts are available for limited size lots within an existing cart route.

B. ENCLOSURE DESIGN, LOCATION & ACCESSABILITY

____ We require all bins/enclosures to have direct access (STABB LOAD) for our collection trucks. Direct access means the collection truck can drive directly at the bin, and insert the forks into the sides of each bin (See Diagram A). A minimum straight approach of 38' is necessary to line up directly with the bin. Opening/closing gates or fences and locking/unlocking bin lids are an available service that can be part of the drivers responsibility if and when these services are included as part of the overall solid waste services provided.

DIAGRAM A



1. It is difficult and dangerous for a collection truck to back up. Providing a turnaround or separate exit that allows the collection trucks to move forward rather than backwards is required. Maximum backup distance is 50' for any maneuver and must be in a straight line.

2. Bins shall not be placed in front of fire hydrants and no bins shall be placed within 5' of a combustable wall, opening or combustible roof eave line.

3. Trash enclosures cannot be installed behind parking spaces.

4. Trash enclosures used for food-related facilities must provide additional space for separated food bin in addtion to required organic (green waste) bin.

5. Trash enclosures shall be designed based on the size of bins, number of bins, the tenant or prop erty use. If additional capacity is required, additional trash enclosure(s) may also be required.

C. MULTI-FAMILY ENCLOSURE DESIGN

____ Multi-family development projects with five (5) units or more that will utilize shared waste and recycling enclosures. Trash, recycling, and organics are collected from multi-family and other high- density complexes using shared commercial bins. The utility rate for each type of service is based on the number, size of bins, and frequency of scheduled service.

____ Use the table below to help identify the city standard bin enclosure(s) that will provide the required services at your multi-family project.

Classification	Description	Details	Prescribed Solid Waste Services	Enclosure Requirements
R1-5	Standard single family	Single family home on 5,000 square foot lot with 50 frontage	Residential 3 can service	N/A
RM2	10 units per acre		Commercial bin service including trash, recycle, and organic collections	City standard R1/R2 & R3/R4 enclosures
RM3	11+ units per acre		Commercial bin service including trash, recycle, and organic collections	City standard R1/R2 & R3/R4 enclosures

D. EXTERNAL STORAGE REQUIREMENTS

____ Multi-family residential garbage, recycling, and compost receptacles must be stored in a trash enclosure.

____ Trash enclosure(s) for multi-family units must observe requirements of the current California Building Code regarding accessibility to solid waste collection receptacles for persons with disabilities (CCR Title 24, Part2).

____ Trash enclosure(s) for multi-family units must be distributed throughout larger complexes so that no residents will have to travel more than 250' to reach an enclosure.

____ Trash enclosure(s) must be shown on the site plan with receptacles to scale.

E. TURNING RADIUS REQUIRED FOR ACCESS TO ENCLOSURE

_____ Must be adequate for a 3-axle truck. The overall length, including the forks is approximately 36'. Minimum outside turning radius is 50'. Please detail this on your submitted plans.

F. DRIVEWAYS

_____ An asphalt or concrete driveway with 50' of straight, direct access that leads to and from the enclo sures to the bin, is required and should be built in accordance with the City Standard Plans and Specification and be able to withstand up to 55,000 lbs.

G. STRESS CONCRETE APRON

_____ A concrete stress apron shall be installed to cover the front of each enclosure and extend out an additional 10' from the enclosure opening. The apron shall be engineered to withstand up to 20,000 lbs. of direct force from a single truck axle.

_____ Apron surface shall be the same elevation as the enclosure pad threshold and the surrounding surfaces, with a slope of 1/8" per foot away from the enclosure pad.

H. ENCLOSURE CONCRETE PAD

_____ Enclosure pad shall be engineered to withstand 20,000 lbs of direct force from a single truck axle.

_____ Enclosure pad surface shall be the same elevation as the apron threshold.

I. ENCLOSURE - (See Attached Specification Details)

Location

_____ Trash enclosure(s) shall be located so that they are convenient and accessible to tenants, maintenance personnel, and City of Visalia.

_____ Trash enclosure(s) shall not be located along any frontage streets or roadways.

_____ Trash enclosure(s) shall not be located adjacent to or on top of a storm drain where the grading will result in drainage or runoff into storm drain. See Stormwater requirements.

1. Materials

Generally, the material should match the exterior surface of the building, (see attached City R-5 enclosure standards). Reinforced masonry or concrete block is the typical standard.

2. Height & Roof Details

Minimum 6' for standard enclosures without a roof. If a roof is planned for an enclosure is planned note that the front (door side) must not be lower than 9', and gates must reach the proposed roof. The rear of the roofed enclosure must not be lower than 8.5'. This allows for solid waste bins to be lifted and removed from under the roof before each service.

3. Inside Dimensions

The minimum interior dimensions for a city standrad (R3/R4) double bin enclosure needed to house at least two four (4) cubic yard bins is 24'x10'. Interior dimensions may increase depending on the size and number of bins.

4. Gates/Doors

1. A separate, additional pedestrian entrance (See attached R-4 city standard enclosure), is strongly encouraged.
2. Gates shall be solid metal with outside handles on each door and slide latch to secure the doors.
3. Provide means to secure gate doors and sleeve in pavement. Be sure to have bolt drop a mini mum of 4" into the ground (See attached R-6 standards).
4. Gates in the open position shall not infringe on the traffic aisles and open to at least 180degrees when opened and secured using Cane bolts.

5. No Parking Signs

The area directly in front of the enclosure doors shall have "**NO PARKING**" painted on the ground in front of and on enclosure doors.

6. Storage Inside the Enclosure

The property owner shall ensure that no other materials (i.e. hazardous wastes, grease bins, cleaning supplies, etc.) are stored in the enclosure. The enclosure is strictly for the storage of solid waste containers.

PROJECT NAME:_____

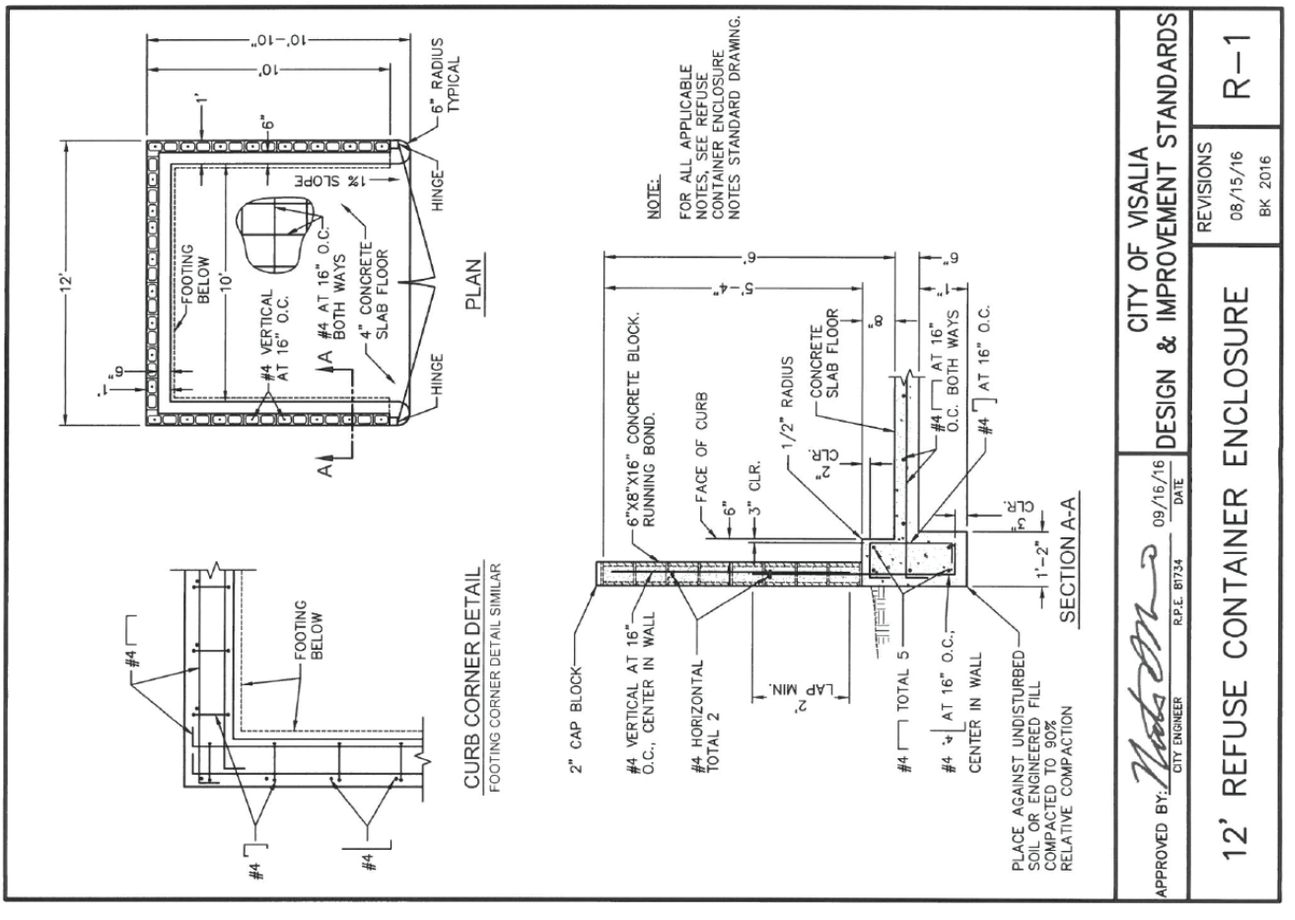
PERMIT#:_____

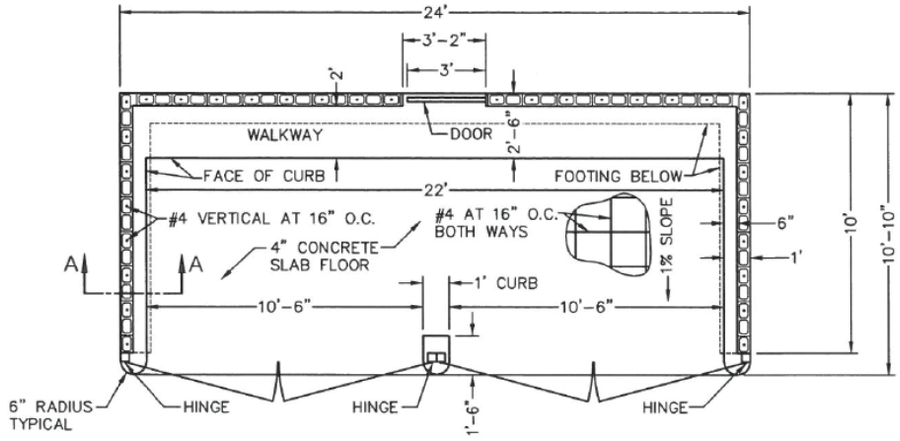
PROJECT ADDRESS:_____

CONTACT NAME:_____

PHONE #:_____ EMAIL:_____

SIGNATURE:_____ DATE:_____





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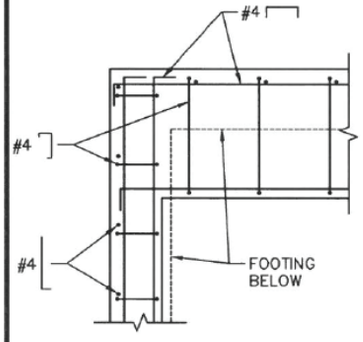
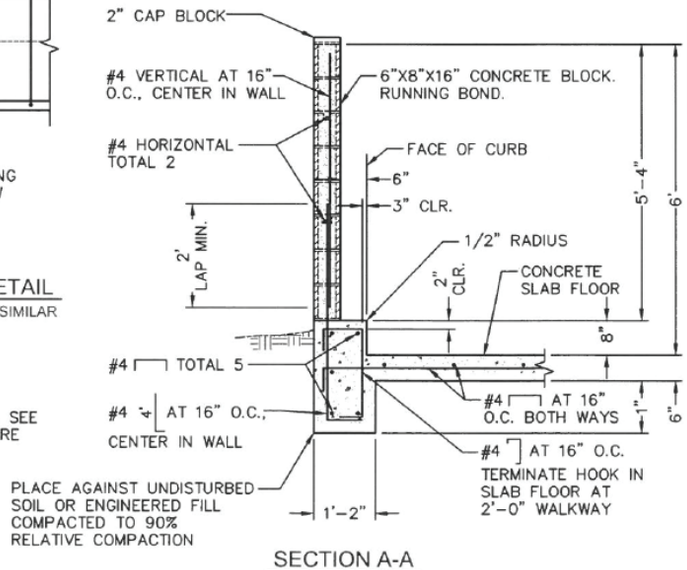


CURB CORNER DETAIL

FOOTING CORNER DETAIL SIMILAR

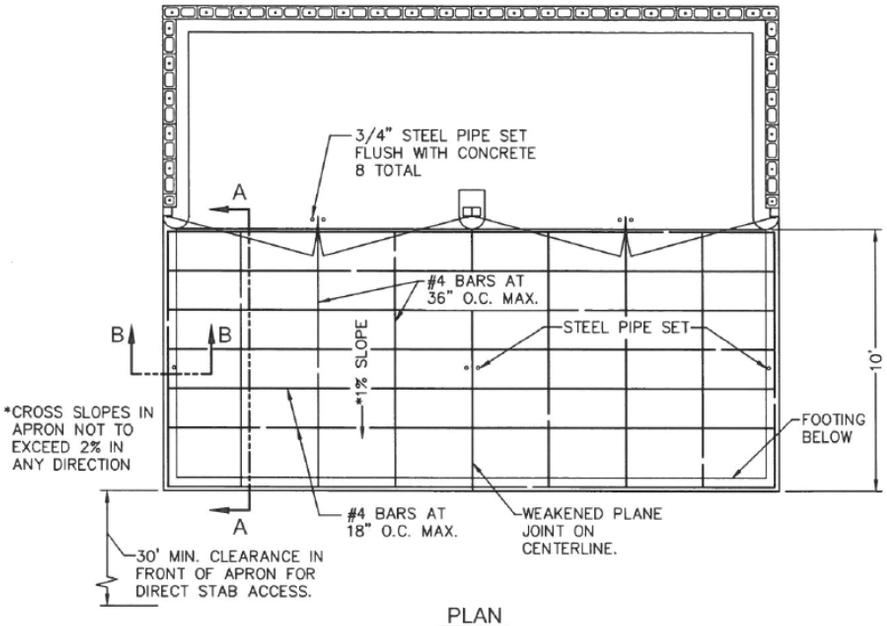


SECTION A-A

NOTE:

FOR ALL APPLICABLE NOTES, SEE REFUSE CONTAINER ENCLOSURE NOTES STANDARD DRAWING.

APPROVED BY: CITY ENGINEER R.P.E. 81734 09/16/16 DATE	CITY OF VISALIA DESIGN & IMPROVEMENT STANDARDS	
24' REFUSE CONTAINER ENCLOSURE – WITH DOOR	REVISIONS 08/15/16 BK 2016	R–4



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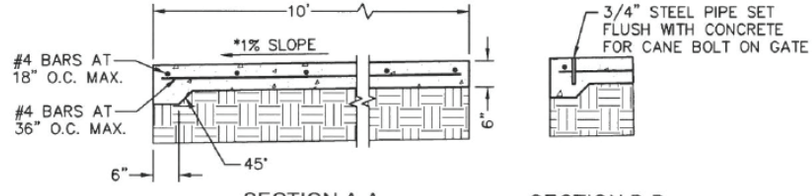

SECTION A-A

SECTION B-B

NOTES:

1. ALL CONCRETE SHALL BE CLASS 3, PRE–MIXED. 28–DAY COMPRESSIVE STRENGTH = 2500 psi MIN.
2. REINFORCING BARS SHALL BE ASTM A615 GRADE 40 MINIMUM DEFORMED STEEL AND SHALL BE CLEAN OF DIRT AND RUST BEFORE PLACEMENT.
3. REINFORCING BARS SHALL HAVE A MINIMUM OF 3" OF CLEAR COVERAGE FROM THE COMPACTED EARTH AND 2" FROM FINISH GRADE.
4. ALL REFUSE CONTAINER ENCLOSURES SHALL HAVE A CONCRETE APRON.
5. CONCRETE PAD SHALL BE PLACED ON MOIST AND COMPACTED BASE MATERIALS. 95% RELATIVE COMPACTION.
6. STEEL PIPE LOCATION IN CONCRETE PAD SHALL BE DETERMINED BY CANE BOLT LOCATION ON GATE. SEE REFUSE CONTAINER ENCLOSURE GATE DETAILS STANDARD DRAWING.

APPROVED BY: CITY ENGINEER R.P.E. 81734 09/16/16 DATE	CITY OF VISALIA DESIGN & IMPROVEMENT STANDARDS	
REFUSE CONTAINER ENCLOSURE CONCRETE APRON DETAILS	REVISIONS 08/15/16 BK 2016	R–5