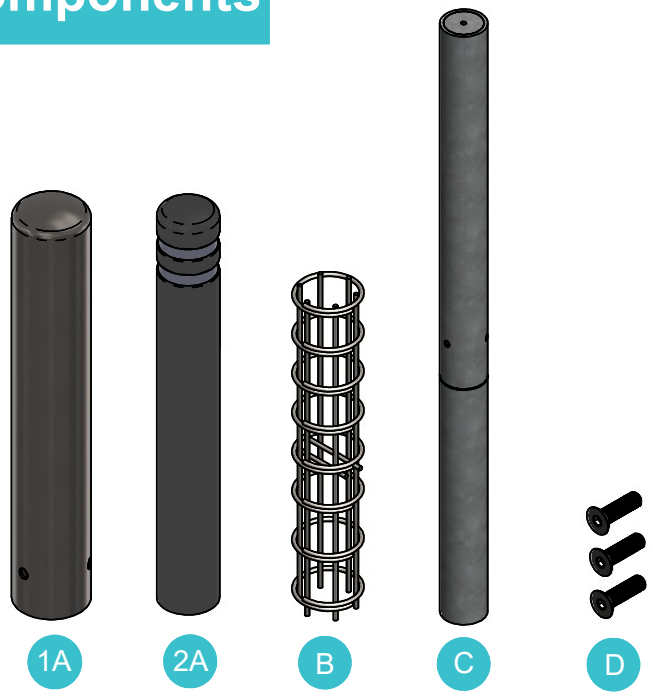
CrashCore™ Bollard S10 Soil

Crash-Rated S10 Bollard Installation Instructions



Components



INCLUDED COMPONENTS	
1A	Stainless Steel Post Cover
2A	Plastic Post Cover W/Reflective Tape
B	32" Rebar Cage
C	Steel Core
D	Flat Head Screw, 1/2"-13 x 1.75" Long

Rev 0 10/09/2026

All purchases subject to McCue Limited Warranty & Purchase Terms
available at www.mccue.com/support/warranty

Questions

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Suggested Tool List

Below you will find the suggested tools for a deep cage CrashCore Bollard installation

EQUIPMENT

- ☐ Skid Steer with 24” Auger & Bucket Attachments
- ☐ Small Concrete Mixer or 5 Gallon bucket with Concrete Paddle Mixer
- ☐ Gas-Powered Generator
- ☐ Wet/Dry Vacuum
- ☐ Pressure Washer
- ☐ Portable Work Lights (If Night Work)
- ☐ Cordless Blower
- ☐ Pallet Jack with 5000 lb Capacity
- ☐ Cordless Impact Driver
- ☐ Dumpster Optional

HARDWARE & SUPPLIES

- ☐ Fast-Setting Concrete Mix with Minimum 3000 psi — Approximately 9.80 cu.ft Per Bollard
- ☐ 5/16” Allen Key or Hex Bit
- ☐ Towels or Rags for Cleaning Stainless Steel
- ☐ Stainless Steel-Safe Cleaner

TOOLS

- ☐ Spray Paint to Mark Soil
- ☐ Chalk Line or Laser
- ☐ Tape Measure
- ☐ 24″ Push Broom
- ☐ 7″ Corn Hand Broom
- ☐ Finishing Trowel
- ☐ Flat Transfer Shovel
- ☐ Round Point Shovel
- ☐ Level
- ☐ Extension Cord
- ☐ 48″ Post Hole Digger
- ☐ Wheelbarrow
- ☐ Web Slings for Lifting at least 1000 lb Capacity
- ☐ Square with at least 2 ft Blade
- ☐ 3/4″ Water Hose with Hose Head Nozzle
- ☐ Steel Drilling Hammer or Dead Blow Hammer
- ☐ Shut-Off Valve Wrench (Water Security Key)
- ☐ 2 Adjustable Pipe Wrenches
- ☐ Utility Knife
- ☐ String or Wire
- ☐ Digging Bar
- ☐ Camera or Smart Phone

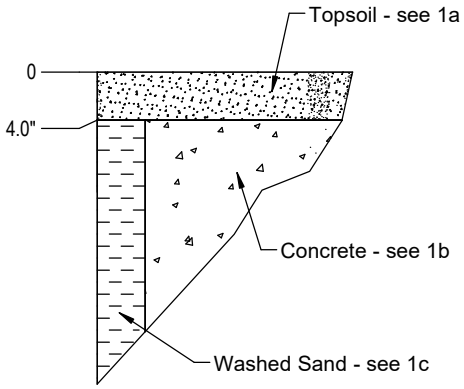
PPE

- ☐ Dust Mask
- ☐ Eye Protection
- ☐ Steel Toe Boots
- ☐ Ear Protection
- ☐ Gloves

OH SH!T LIST

- ☐ Cones
- ☐ Caution Tape
- ☐ Metal Barricade
- ☐ Steel Tamper
- ☐ Jack Hammer
- ☐ 1/2″ - 13 Tap
- ☐ 3/8″ or #3 x 36″ Rod or Rebar
- ☐ Masking Tape
- ☐ Tarp

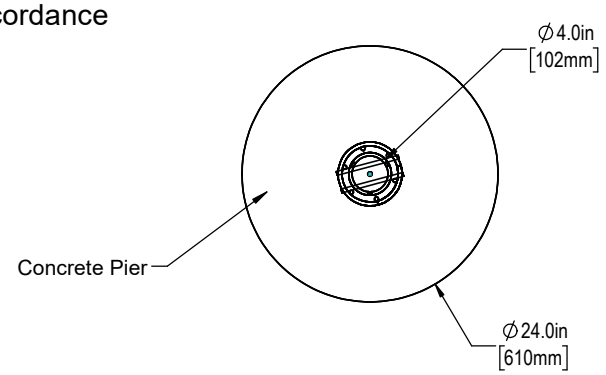
MINIMUM GROUND CONDITIONS REQUIRED



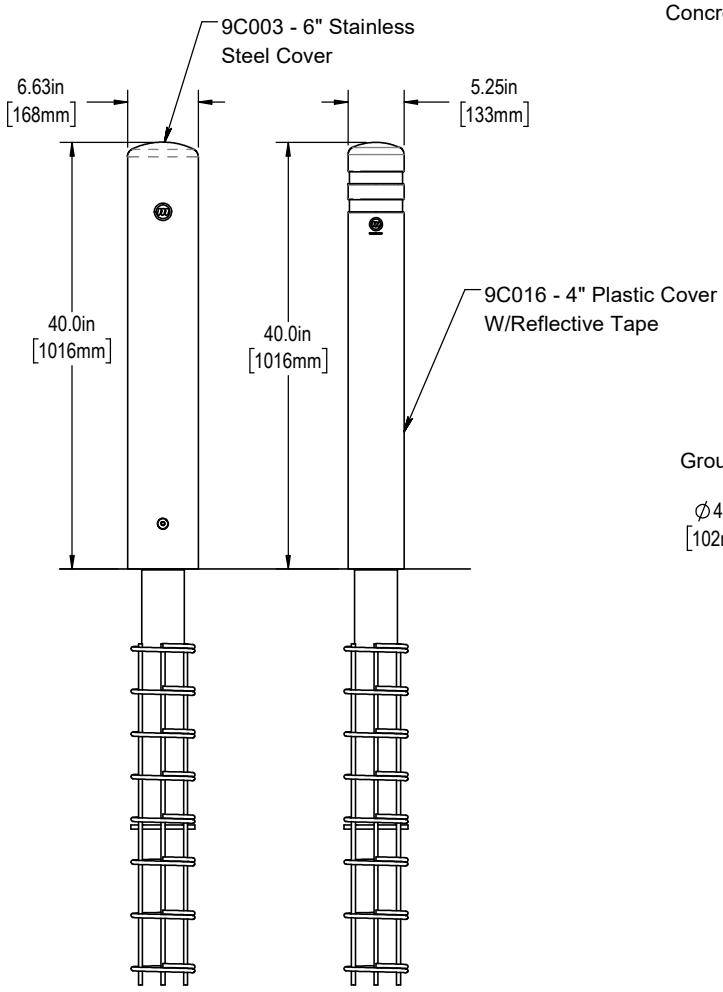
☐ **1a:** The Topsoil shall be loose, friable, loamy, free of subsoil, clay lumps, stones, roots, and other foreign or toxic matter, and shall contain 3% to 20% organic matter as determined by the loss of ignition of moisture-free samples dried at 100°C.

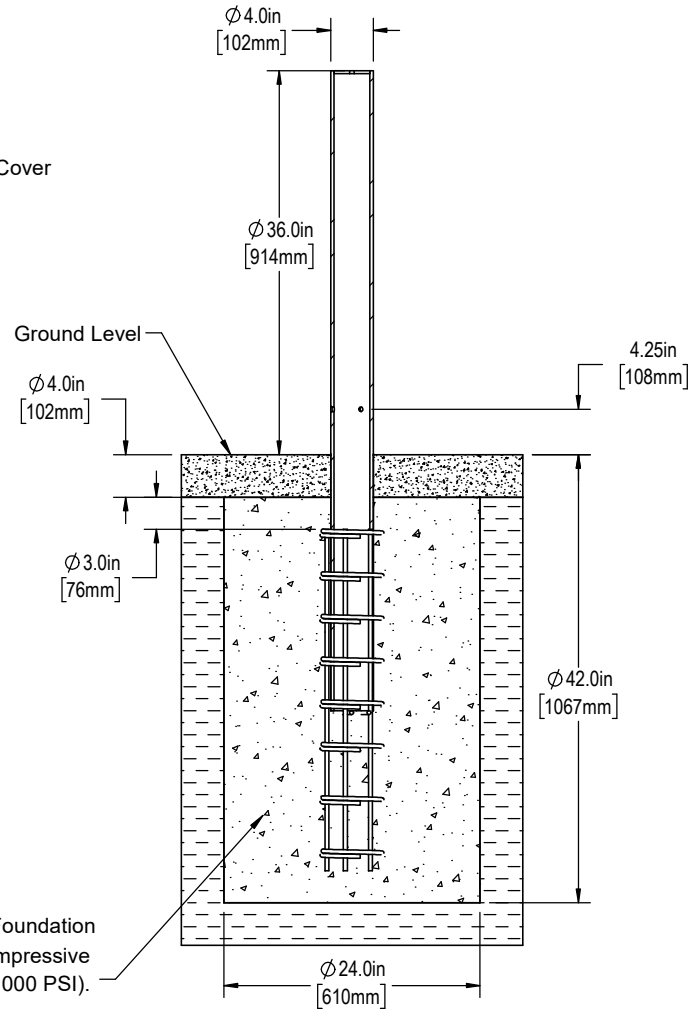
☐ **1b:** The concrete is 3000 psi minimum unconfined compressive strength.

☐ **1c:** The washed sand shall be classified as SP - poorly graded sand & must be compacted to a density of not less than 90% maximum dry density in accordance with AASHTO Method of Test T099.

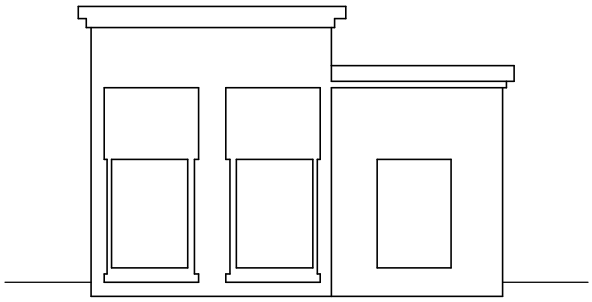


COVER OPTIONS

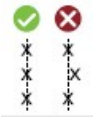




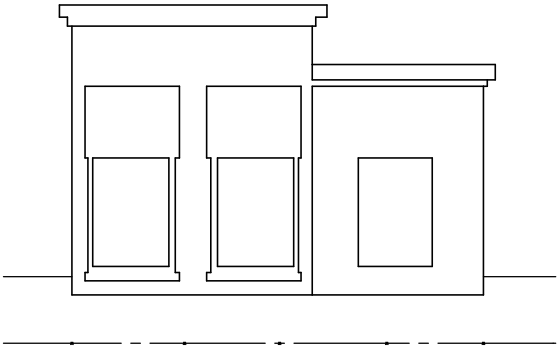
1 PHOTOGRAPH: Take wide-angle photo including entire site.



2 Layout and mark bollard locations per print.

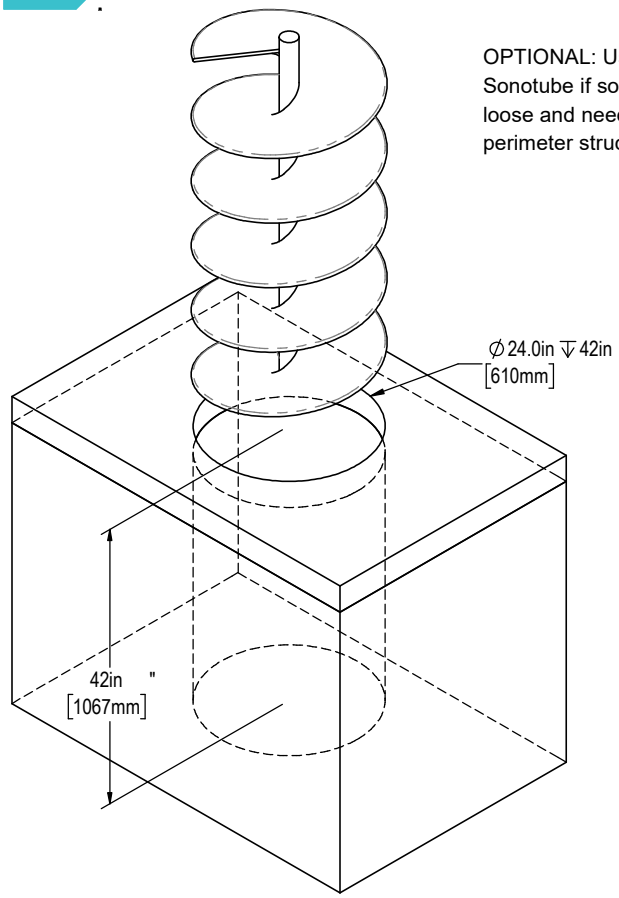


PLAN VIEW

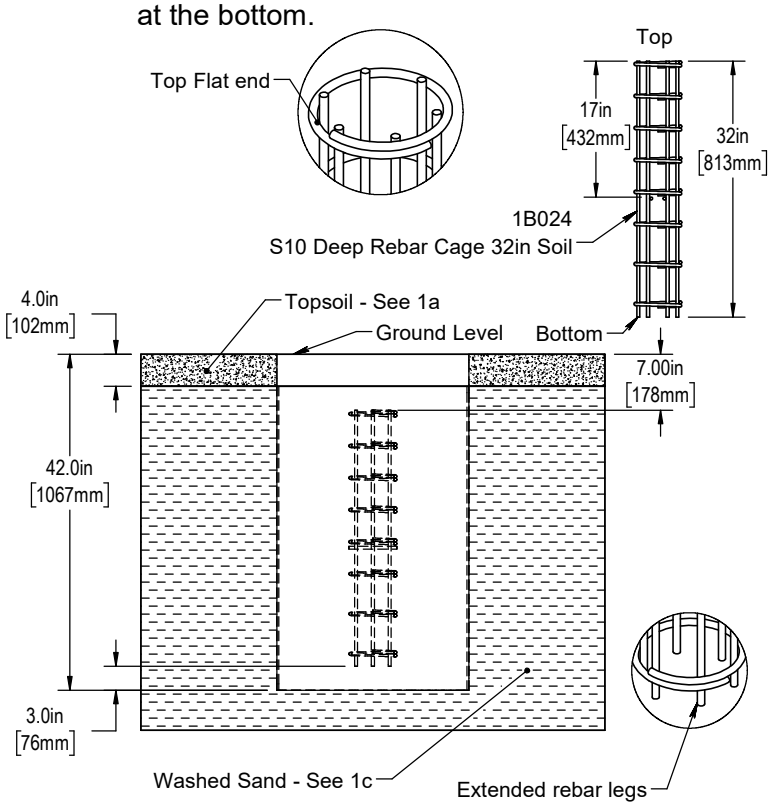


Chalk, Tape & T-Square

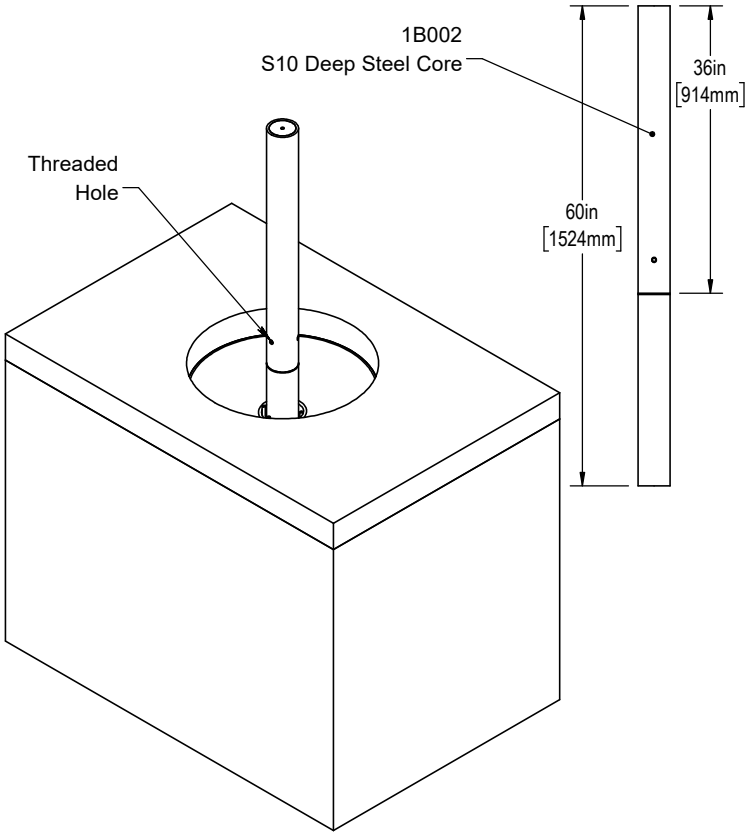
3 Using the 24" auger, remove earth from hole. Auger 24" diameter hole 42" deep.



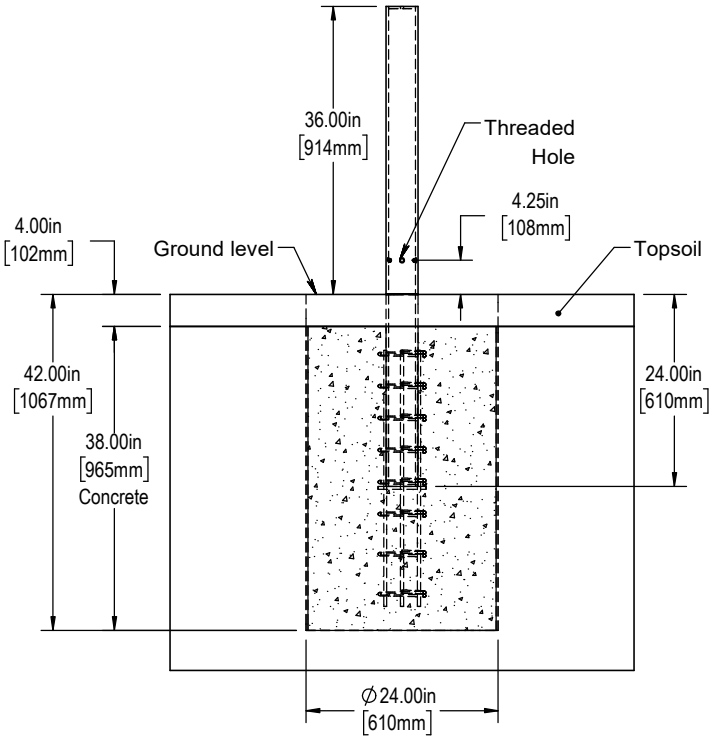
4 Top of rebar cage to be positioned 7" below ground level. Ensure the flat end of rebar cage is at the top and the extended legs are at the bottom.



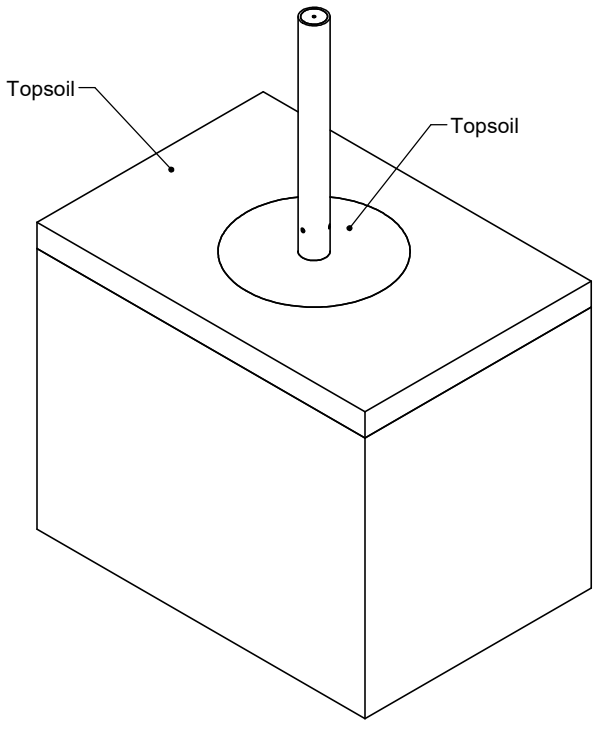
5 Lower the core into rebar cage. Ensure one threaded hole is facing front and core is plumb.



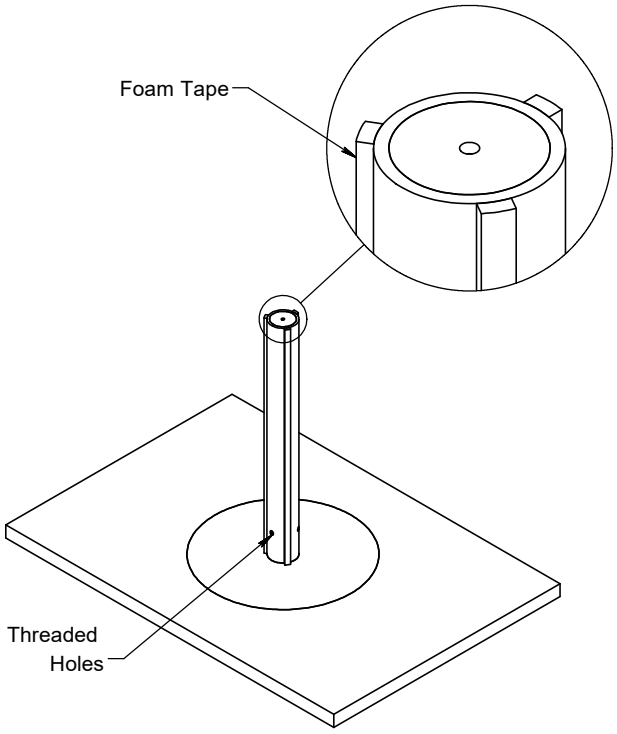
6 Mix & place 3,000 psi minimum strength concrete; the concrete finishes 4" below ground level.



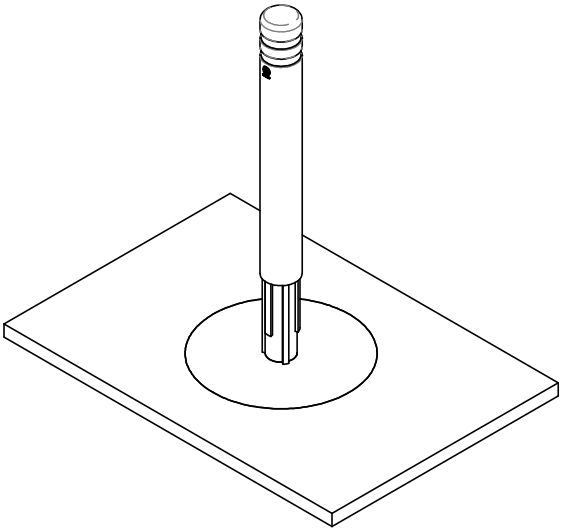
7 Fill exposed concrete with Topsoil to match surrounding.



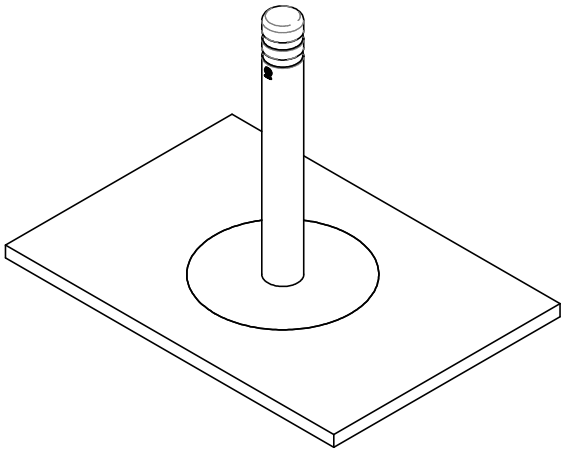
8 **IF PLASTIC COVER**: Cut 3-foot pieces of foam tape and apply to the area between the threaded holes.



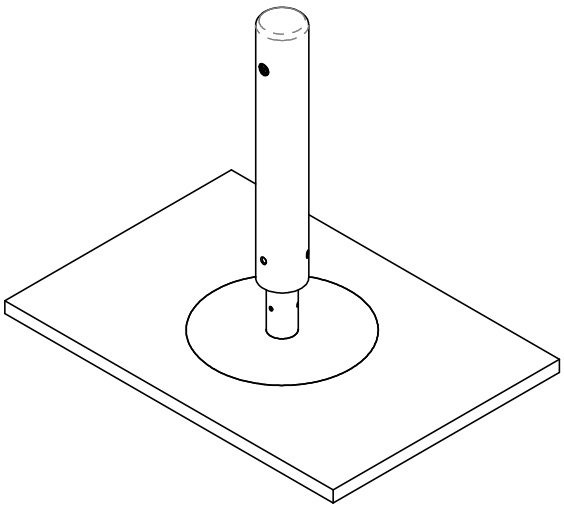
9 While concrete is still curing, Slide plastic cover until flush. Ensure to align logo to the front.



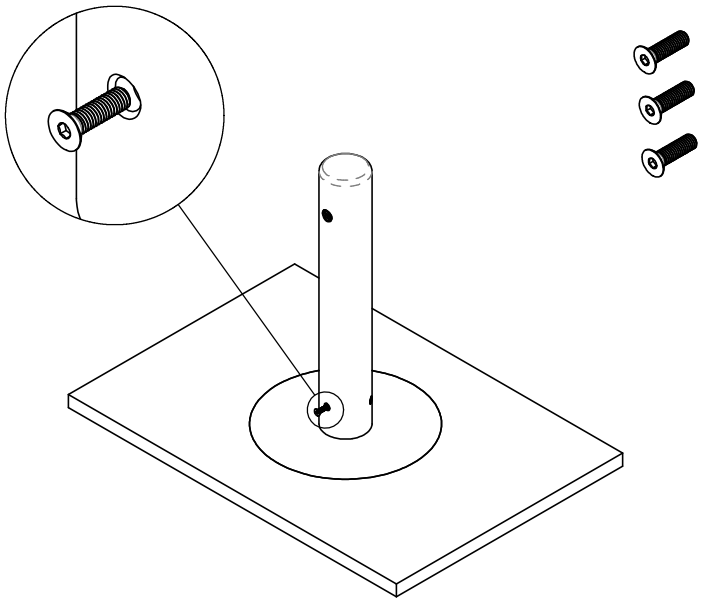
10 Clean Plastic bollard cover.



11 **IF STAINLESS STEEL COVER**: While concrete is still curing, install the stainless steel post cover. Ensure to align logo to the front.

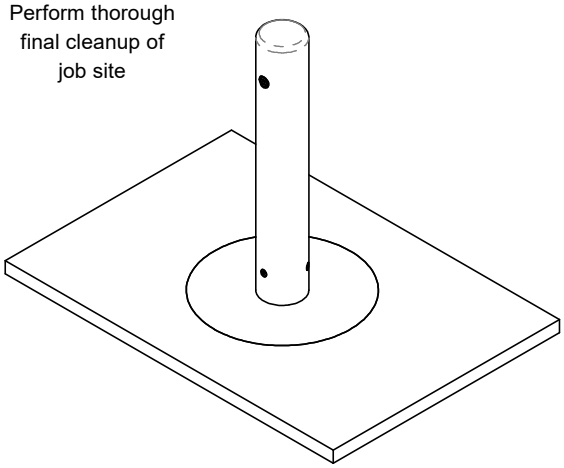


12 Use the 5/16" Allen Key to tighten the screws to secure the stainless steel post cover until flush.

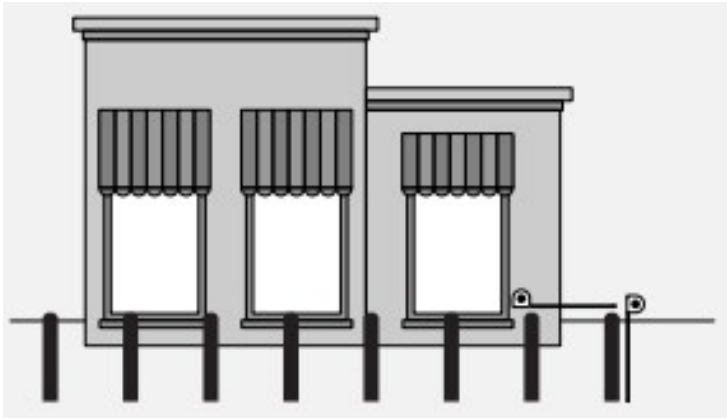


13 Clean Stainless Steel bollard cover and ensure entire site is clean.

NOTE:
Perform thorough final cleanup of job site



14 PHOTOGRAPH: Take photos of completed installation, bollard height & typical spacing.



Installation Checklist

Ensure all items are complete before finishing installation

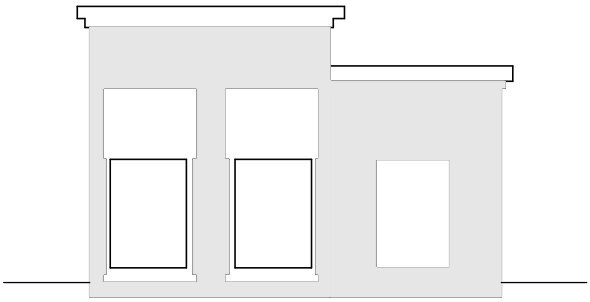
MEASUREMENT CHECK

☐ 42" Deep hole
☐ 24″ Diameter
☐ Rebar Cage is 3" below Topsoil

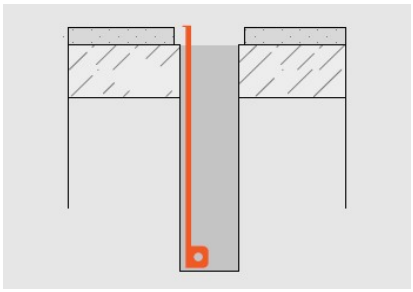
CORE ALIGNMENT

☐ Center the core in the hole
☐ Core is plumb
☐ Check the overall height of the bollard from ground level using a tape measure and the line on the core

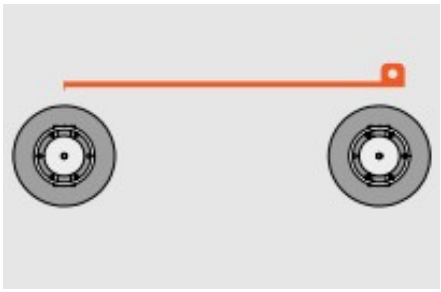
PHOTO CHECK: Ensure to document the completion of each specified step that included a photo as shown below



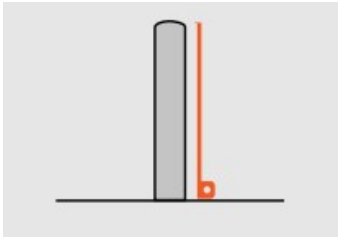
☐ Before Photo Of Work Site



☐ 42" Deep hole



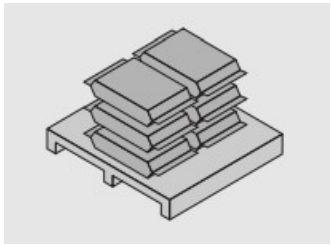
☐ Typical Bollard Spacing



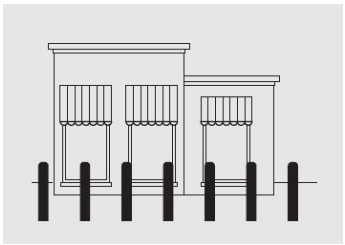
☐ Overall Bollard Height



☐ 24" Diameter hole



☐ Concrete Bags



☐ Finished Site Installation