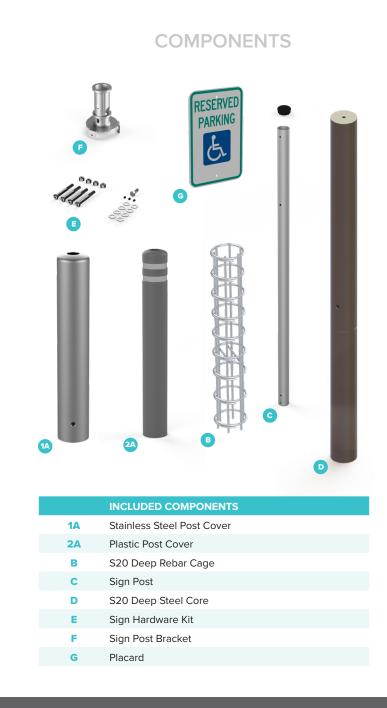
CrashCore[™] Bollard

Crash-Rated Bollard Installation Instructions





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





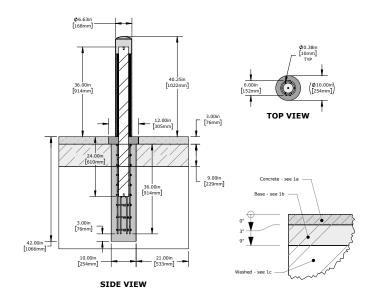
Suggested Tool List

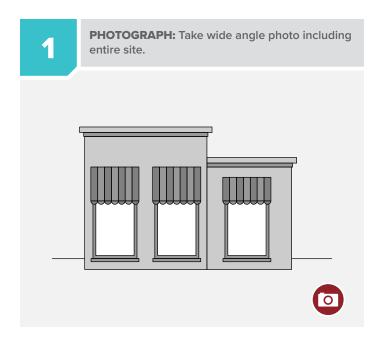
Below you will find the suggested tools for a deep cage CrashCore Bollard installation

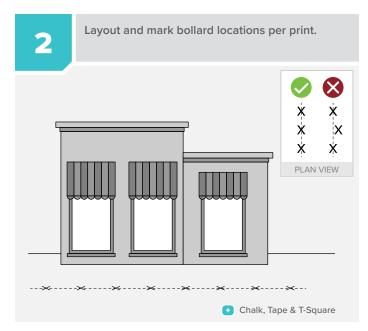
EQUIPMENT Skid Steer with 10" Auger & Bucket Attachments Core Drill with 12" Diamond Core Bit Small Concrete Mixer or 5 Gallon Bucket with Concrete Paddle Mixer Gas-Powered Generator Wet/Dry Vacuum	Pressure Washer Portable Work Lights (If Night Work) Cordless Blower Pallet Jack with 5000 lb Capacity Cordless Impact Driver Dumpster		Fast-Setting Cor — Approximatel 1/4" x 1-3/4" Tapo Anchors 3/16" Carbide Tip 5/16" Hex Impact 5/16" Allen Key of	ncrete N y 2 ft ³ F con Self p Mason t Socke or Hex E for Clea	-Threading Concrete nry Drill Bit t Bit n Stainless Steel
TOOLS Chalk for Marking Concrete 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	or Dead B Shut-Off Vo (Water Sec 2 Adjustab Wrenches Utility Knife String or W Digging Ba	Knife or Wire		PPE Dust Mask Eye Protection Steel Toe Boots Ear Protection Gloves
OH SH!T LIST Cones Cation Tape Metal Barricade	Steel Tamper Jack Hammer 1/2" - 13 Tap	3/8" or #3 : Rebar Masking Ta	x 36″ Rod or ape		Tarp

GROUND CONDITIONS PER ASTM F3016

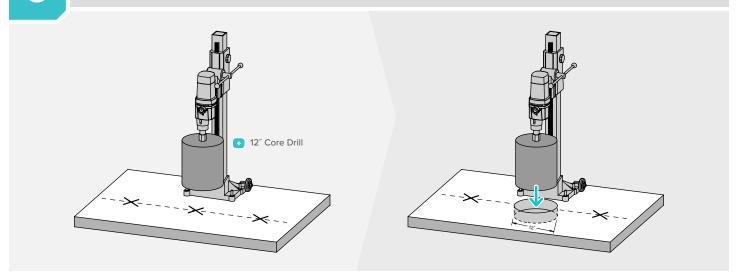
- □ **1a:** The concrete is 3000 psi minimum unconfined compressive strength, with one layer of #3 (Ø3/8″) rebar spaced at 12″ each way, with 1-1/4″ cover at bottom. Rebar not shown here.
- □ **1b:** The base is Type A Grade 1 crushed limestone road base, compacted to 90% of standard proctor density.
- □ **1c:** The washed sand shall be classified as SP poorly graded sand & be compacted to a density of not less than 90% maximum dry density in accordance with AASHTO Method of Test T099.



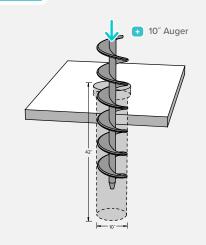


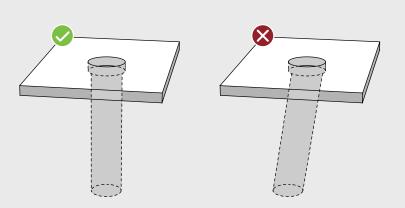


Use the 12" core drill to drill through concrete. Keep it clean — use the wet vac to make sure concrete slurry doesn't stain the sidewalk or enter drains.



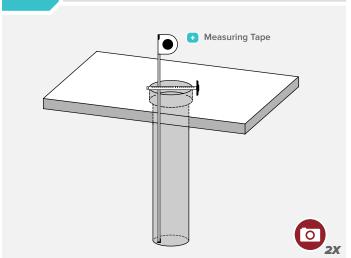


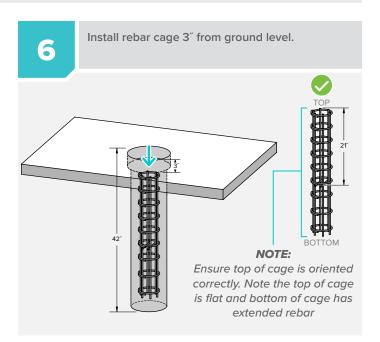




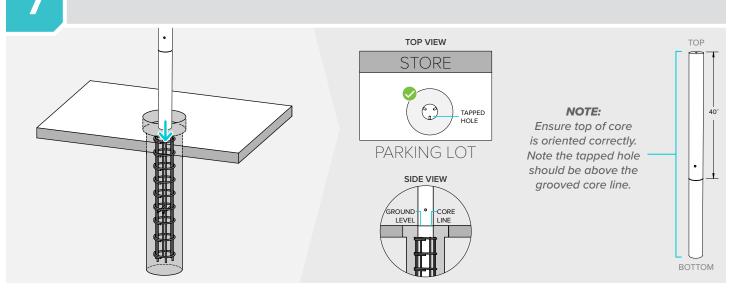
NOTE: Ensure hole is drilled straight and not at an angle

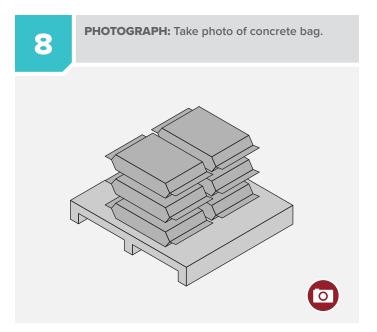
PHOTOGRAPH: Take two individual photos of 5 both the diameter and depth of hole.

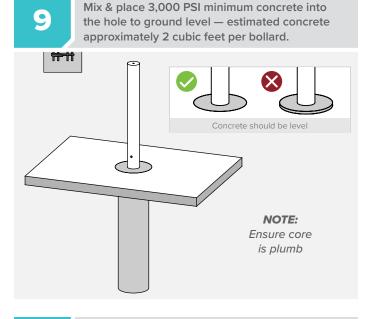


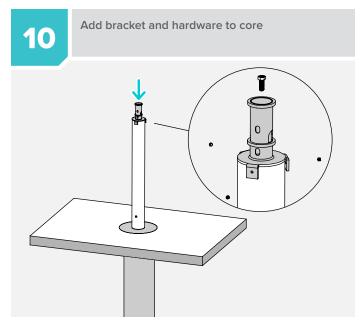


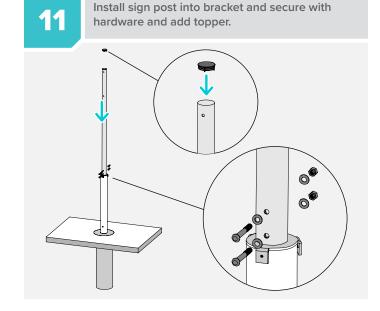
Lower the 215 lb core into the cage. Ensure one tapped hole is facing the parking lot and core is plumb.

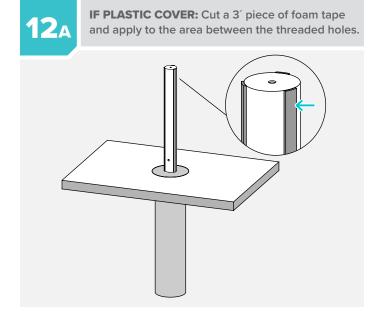


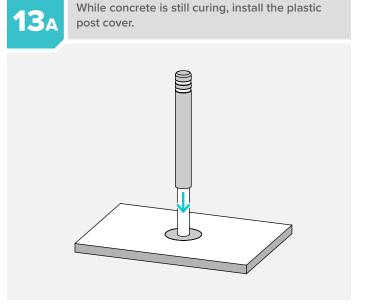


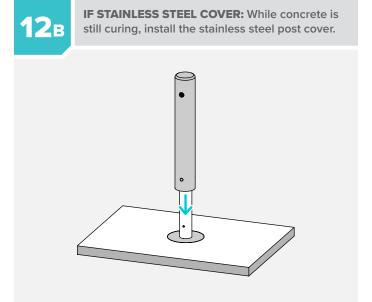


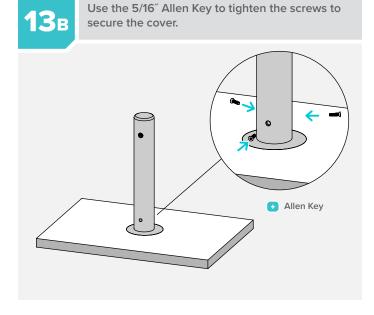


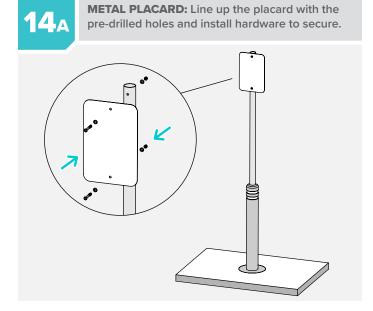


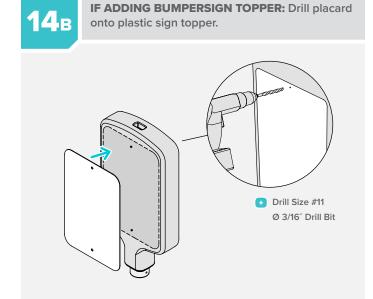


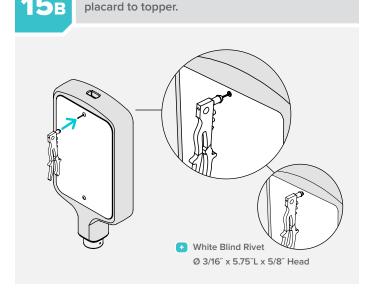




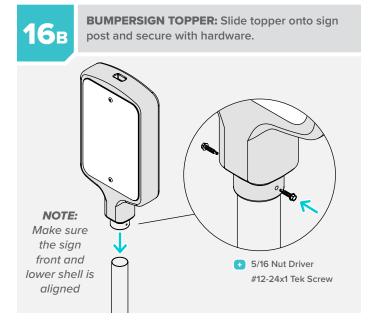


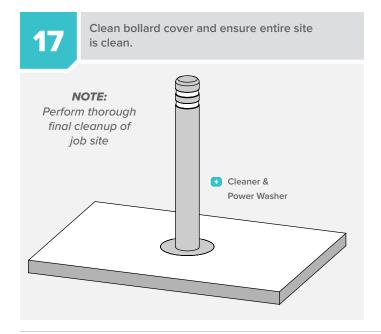


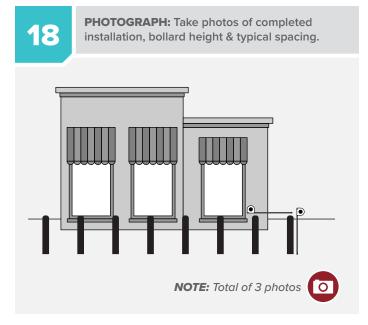




BUMPERSIGN TOPPER: Using the Rivet attach







Installation Checklist

Complete before finishing installation

MEASUREMENT CHECK

- 42" Deep hole
- 10" Diameter hole
- Cage is 3" from ground level

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

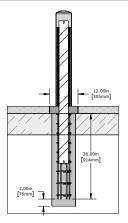
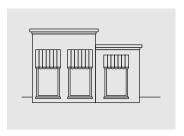
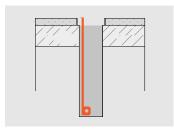


PHOTO CHECK: Ensure to document the completion of each specified step that included a photo icon as shown below



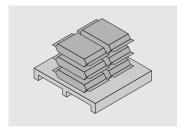
Before Photo Of Work Site



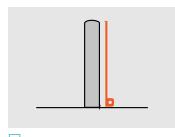
42" Deep Hole



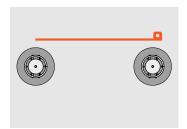
10" Diameter Hole



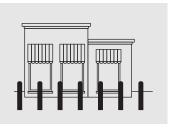
Concrete Bag



Overall Bollard Height



Typical Bollard Spacing



Finished Site Installation



McCue Corporation

Peabody, Massachusetts, USA +1 (800) 800 8503 customercare@mccue.com McCue UK & Europe ilton Keynes, United Kingdon +44 (0)1908 365 511 **McCue Asia** 迈客(厦门)有限公司 Xiamen, Fujian, China +86-592-2200790 mccue.com

