# CrashCore<sup>™</sup> Bollard

### Crash-Rated Bollard Installation Instructions





	INCLUDED COMPONENTS
<b>1A</b>	Stainless Steel Post Cover
<b>2A</b>	Plastic Post Cover
В	Rebar Cage
С	Steel Core
D	Flat Head Screw, 1/2"-13 Thread, 2" long

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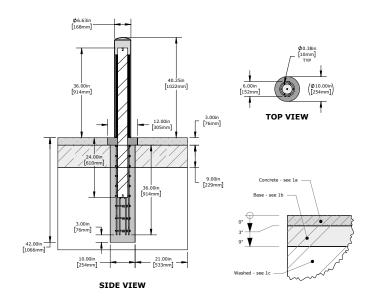
## **Suggested Tool List**

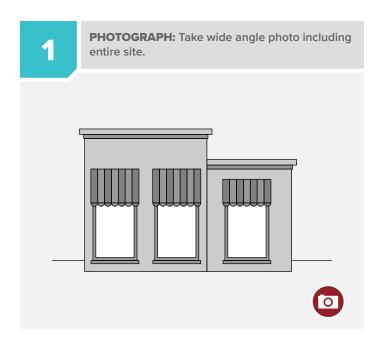
Below you will find the suggested tools for a deep cage CrashCore Bollard installation

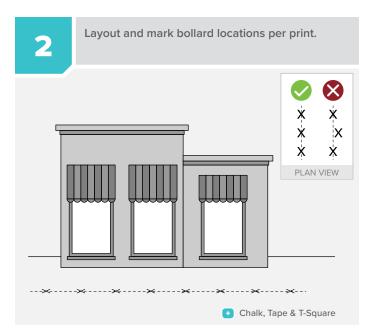
EQUIPMENT  Skid Steer with 10" Auger & Bucket Attachments  Core Drill with 12" Diamond Core Bit  Small Concrete Mixer or 5 Gallon Bucket with Concrete Paddle Mixer  Gas-Powered Generator  Wet/Dry Vacuum	Pressure Washer  Portable Work Lights (If Night Work)  Cordless Blower  Pallet Jack with 5000 lb Capacity  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 <sup>3</sup> 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	ole Pipe		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**

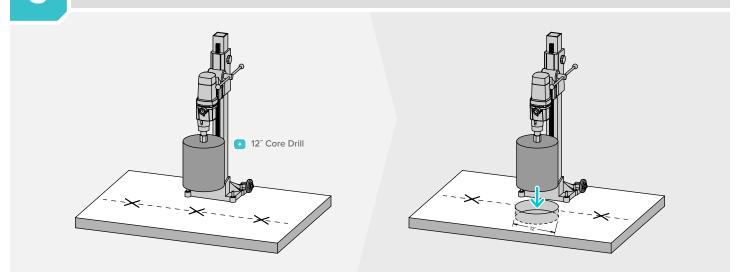
- ☐ **1a:** The concrete is 3000 psi minimum unconfined compressive strength, with one layer of #3 (Ø3/8") rebar spaced at 12" each way, with 1-1/4" cover at bottom. Rebar not shown here.
- □ **1b:** The base is Type A Grade 1 crushed limestone road base, compacted to 90% of standard proctor density.
- ☐ **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.



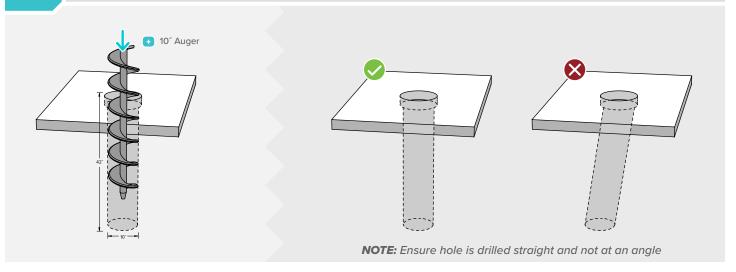


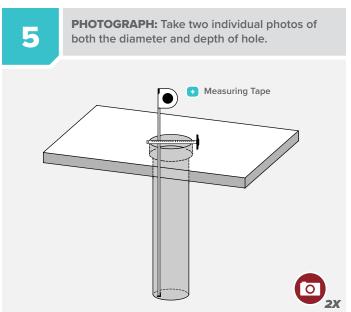


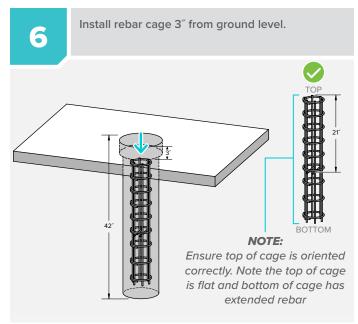
Use the 12" core drill to drill through concrete. Keep it clean — use the wet vac to make sure concrete slurry doesn't stain the sidewalk or enter drains.

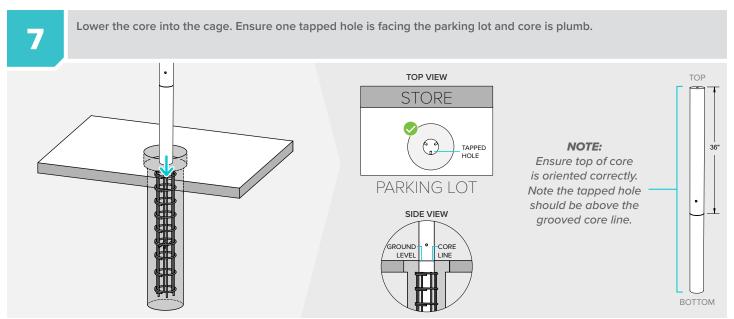




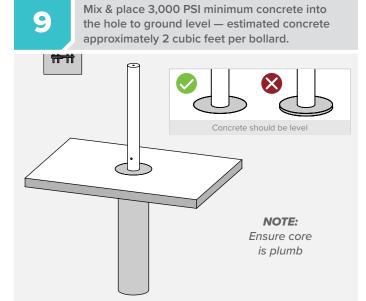


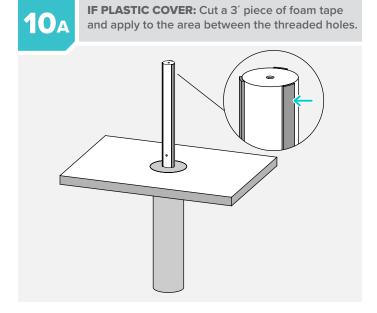


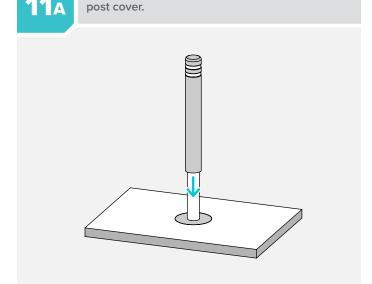




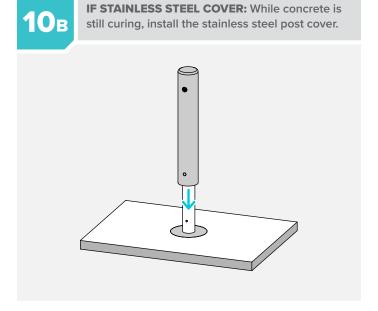


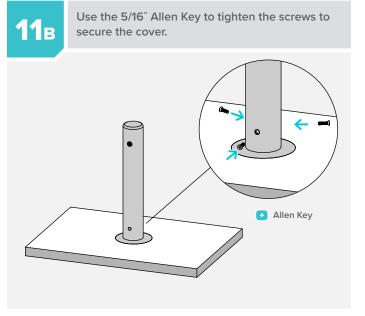


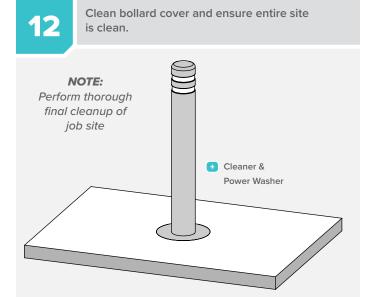


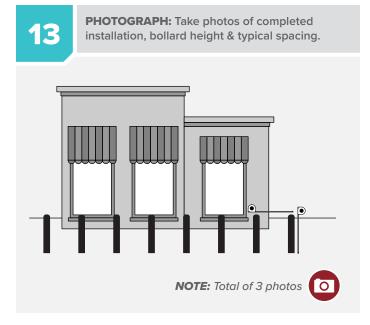


While concrete is still curing, install the plastic









### **Installation Checklist**

Ensure all items are 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

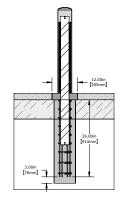
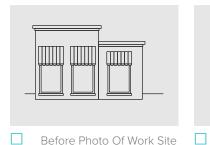
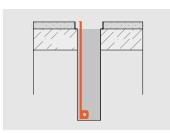


PHOTO CHECK: Ensure to document the completion of each specified step that included a photo icon as shown below



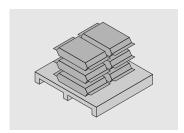
Before Photo Of Work Site



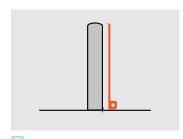
42" Deep Hole



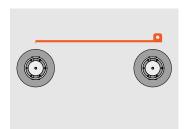
10" Diameter Hole



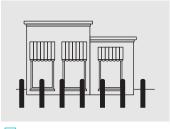
Concrete Bag



Overall Bollard Height



Typical Bollard Spacing



Finished Site Installation



**McCue Corporation** 

+1 (800) 800 8503

McCue UK & Europe +44 (0)1908 365 511

**McCue Asia** 迈客(厦门)有限公司 +86-592-2200790

mccue.com

