



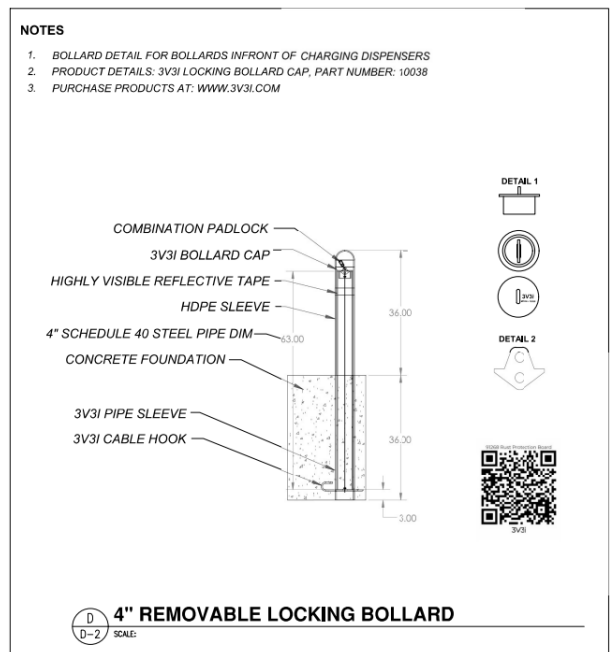
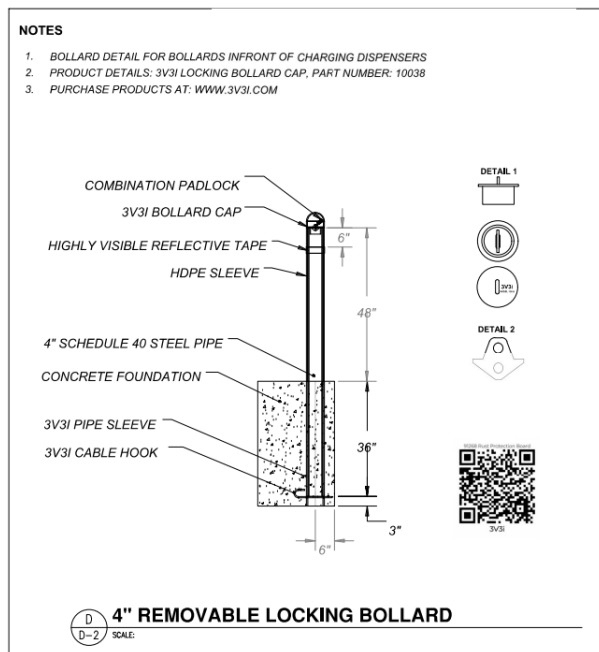
## REMOVABLE LOCKING BOLLARD - INSTALLATION MANUAL

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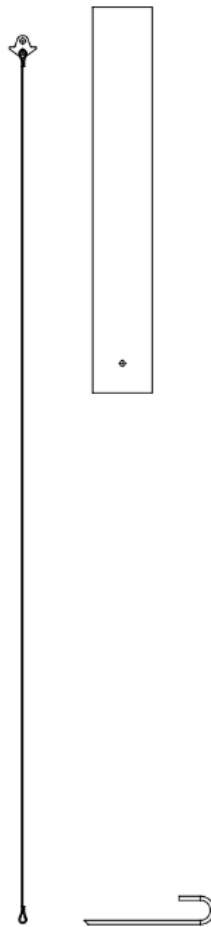
### Purpose of document

This document aims to guide the construction personnel to complete the on-site installation of 3V3i removable locking bollard system.

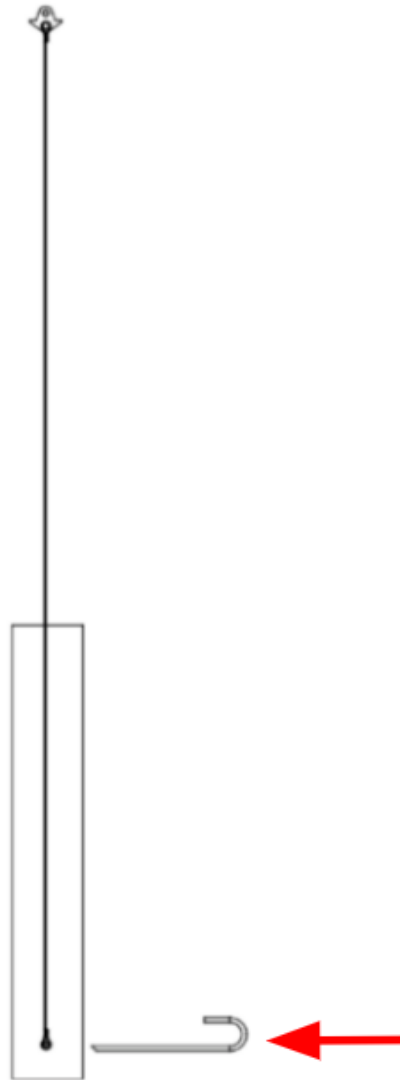


## Installation instructions

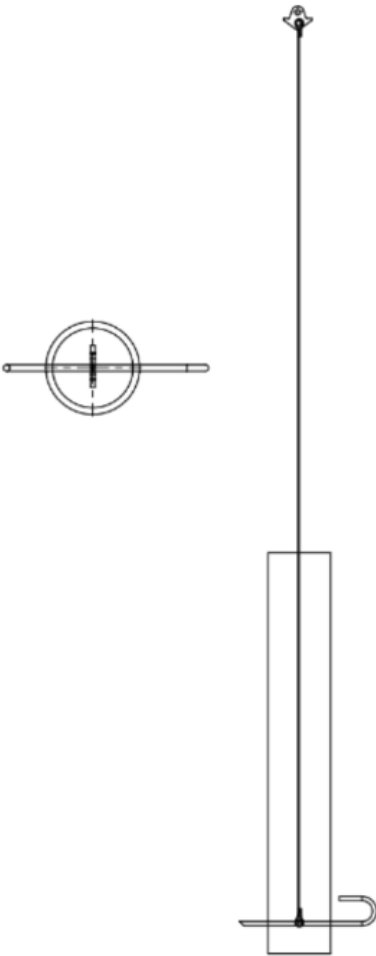
**Step 1:** Pull the cable and hook through the 3V3i HDPE sleeve.



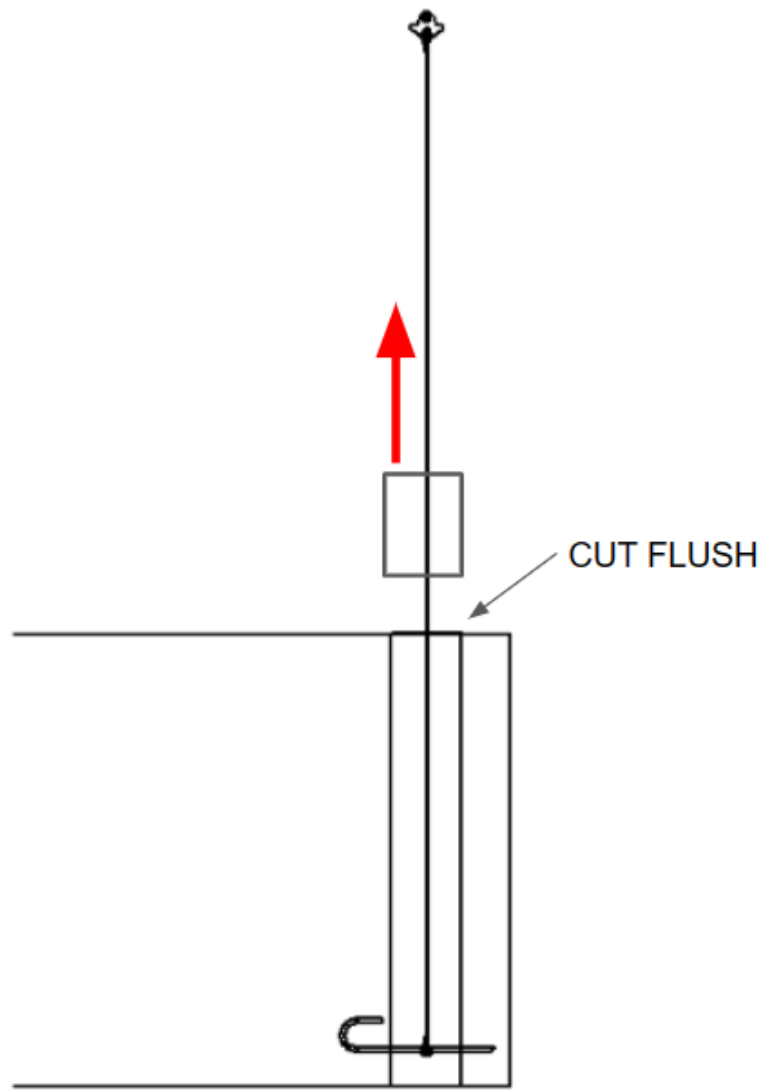
**Step 2:** Align the holes near the bottom of the HDPE sleeve with the bottom end of the cable loop.



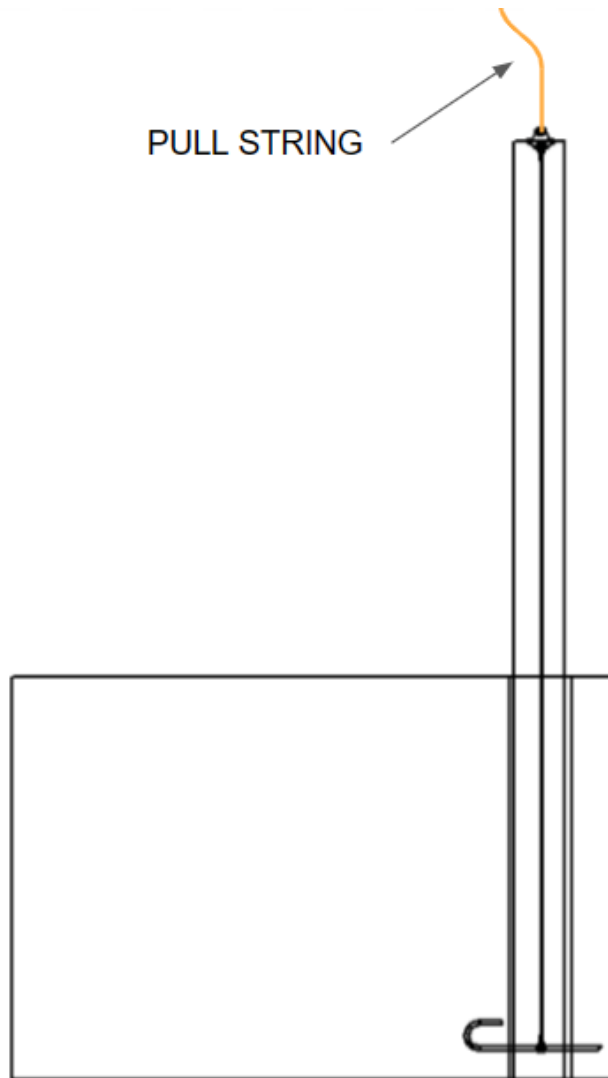
**Step 3:** Insert support stake through the HDPE hole and the cable loop.



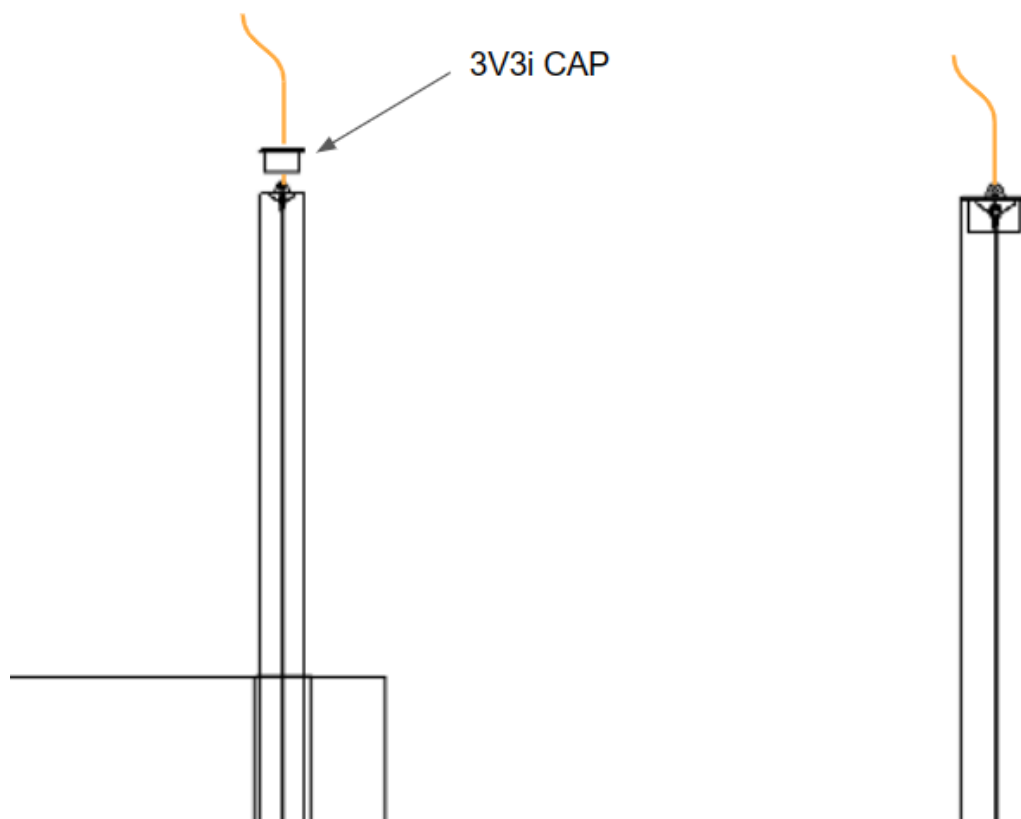
**Step 4:** Set HDPE sleeve into foundation hole, and pour concrete according to engineered specifications. After concrete curing, cut the excess HDPE sleeve flush with concrete surface (~4 in.). Attach String to the top end of the cable.



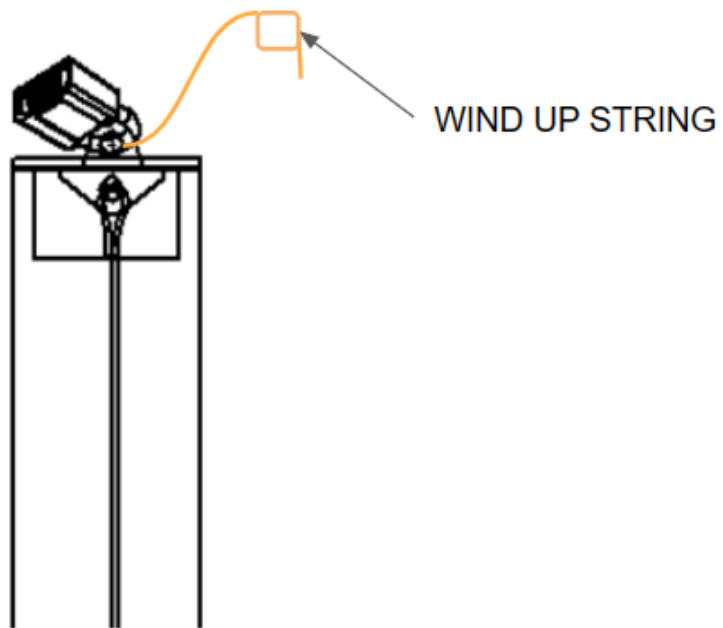
**Step 5:** Insert 4" Schedule 40 steel pipe into HDPE sleeve. Using the attached pull string, pull the cable through the steel pipe to the top. The hook wings should be flush with the top of the pipe for proper installation.



**Step 6:** Pull the string through the cap slot, and insert the cap onto the end of the steel pipe. Pull up on the string until the hook extrudes through the cap slot.

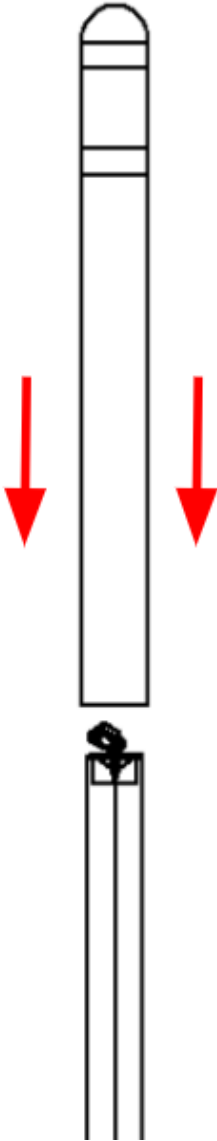


**Step 7:** Attach the combination lock to the protruding cable hook. Wind up the string and place it next to the combination lock for future removal and re-installation.





**Step 8:** Slide bollard cover over steel pipe.



**Final installation should be indistinguishable from standard fixed bollards. The base of the steel pipe should not be visible.**

