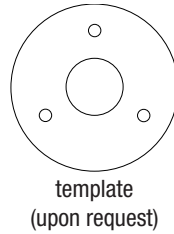
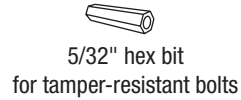
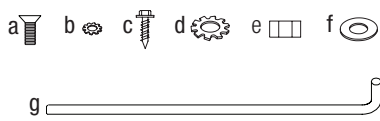


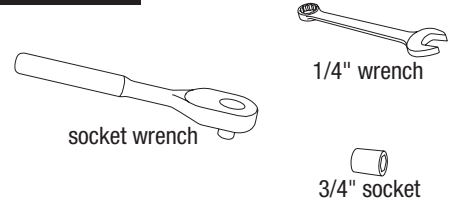
LIGHTHOUSE™ BOLLARD

SURFACE MOUNT INSTALLATION INSTRUCTIONS

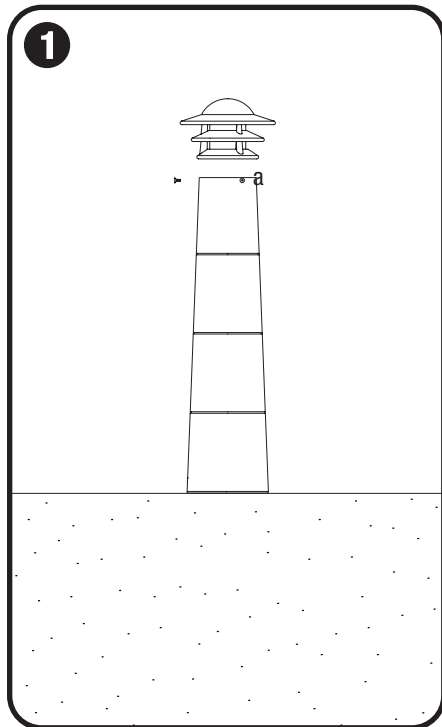
MOUNTING KIT (SOLD SEPARATELY)



TOOLS NEEDED



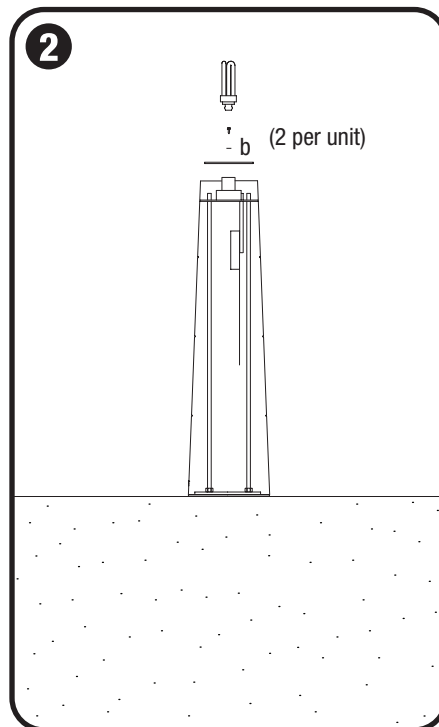
STEP BY STEP FOR ALL LIGHTHOUSE BOLLARDS



Remove head unit

- Use 5/32" hex bit for tamper-resistant bolts to unscrew 1/4"-20 x 3/4" tamper-resistant flat head cap bolts and remove head unit.

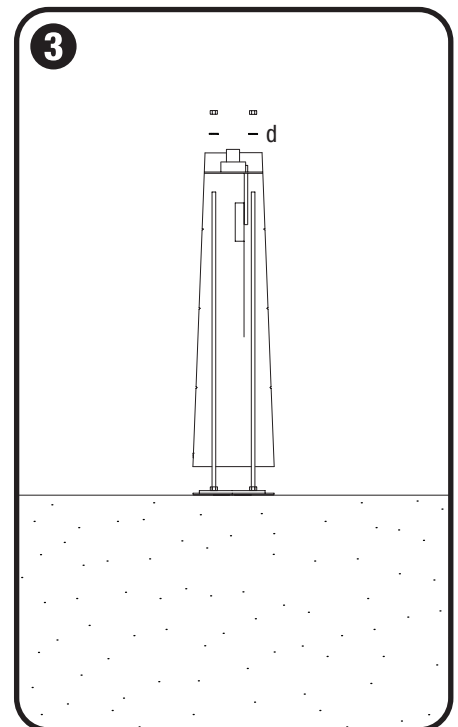
NOTE: Retain all pieces for use in later steps.



Remove lamp & top plate

- Remove lamp.
- Use 1/4" wrench to unscrew and remove #8-32 x 1/2" thread-cutting hex washer head bolts (c) and #8 external tooth washers (b).
- Remove top plate.

NOTE: Retain all pieces for use in later steps.



Remove body & mounting unit

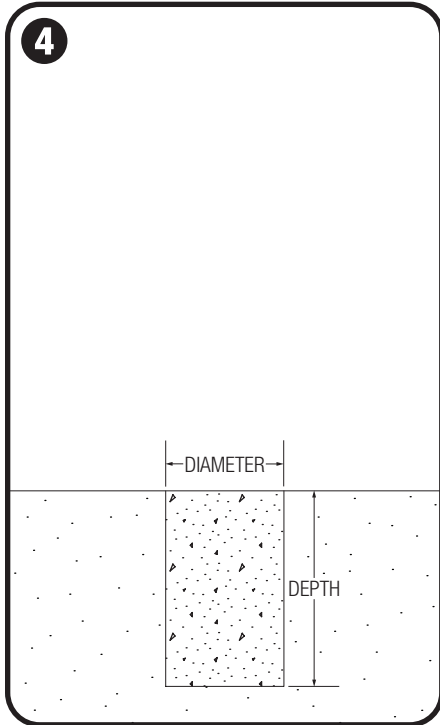
- Use 3/4" socket and socket wrench to unscrew and remove 1/2"-13 nut and 1/2" washer from each vertical support.

NOTE: Retain all pieces for use in later steps.

LIGHTHOUSE™ BOLLARD

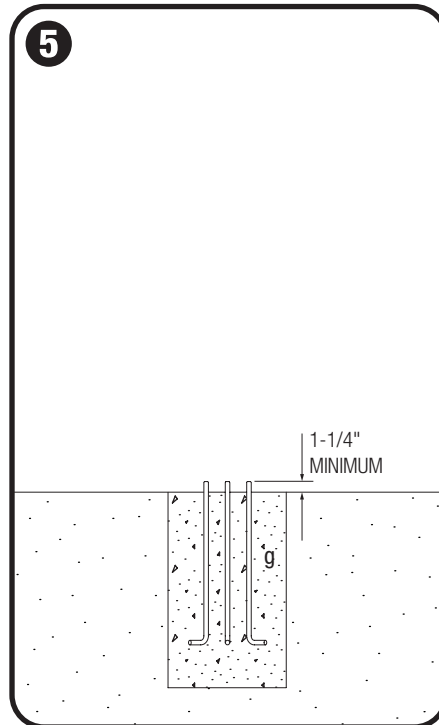
SURFACE MOUNT INSTALLATION INSTRUCTIONS

STEP BY STEP FOR ALL LIGHTHOUSE BOLLARDS



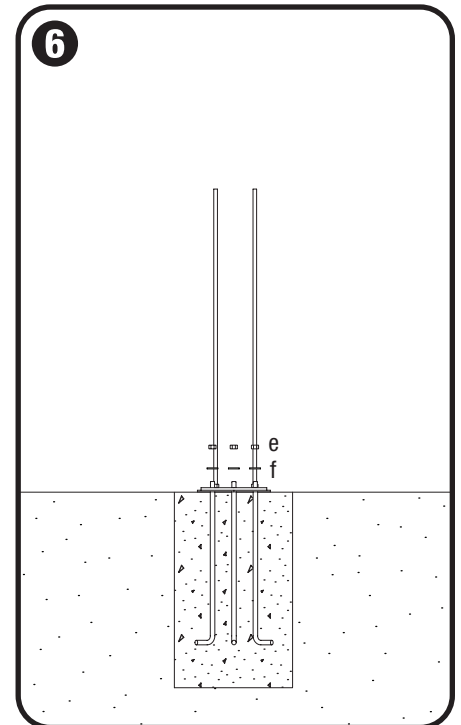
Pour concrete footer

- Mix and pour concrete footer according to concrete manufacturer's instructions.
- A sufficient footer size depends on frost and other conditions to be determined by the installer. A minimum of a 13" diameter x 20" deep footer is recommended.



Insert J-bolt anchors

- Insert 1/2"-13 x 18" galvanized steel J-bolt anchors (g) into concrete.
- Use template (included upon request) to position J-bolt anchors in proper locations. Tops of J-bolt anchors must be a minimum of 1-1/4" above concrete surface.
- Allow concrete to set completely, in accordance with concrete manufacturer's instructions, before moving to step 6.



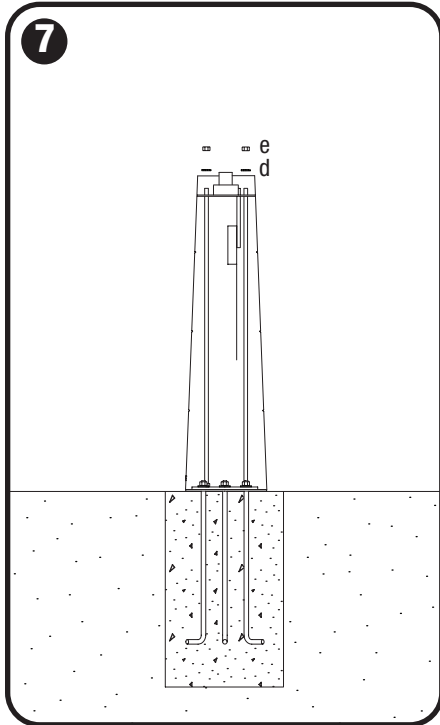
Attach base plate to J-bolt anchors

- Slide base plate and vertical supports over J-bolt anchors and lower to concrete level.
- Slide 1/2" washer (f), then thread 1/2"-13 nut (e) onto each J-bolt anchor and tighten with 3/4" socket and socket wrench until snug.

LIGHTHOUSE™ BOLLARD

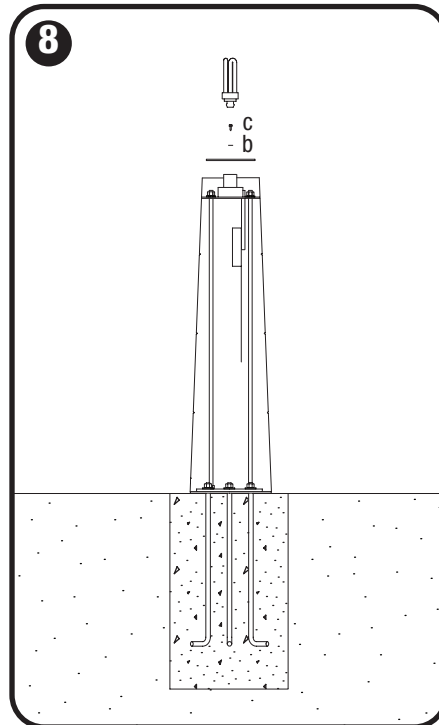
SURFACE MOUNT INSTALLATION INSTRUCTIONS

STEP BY STEP FOR ALL LIGHTHOUSE BOLLARDS



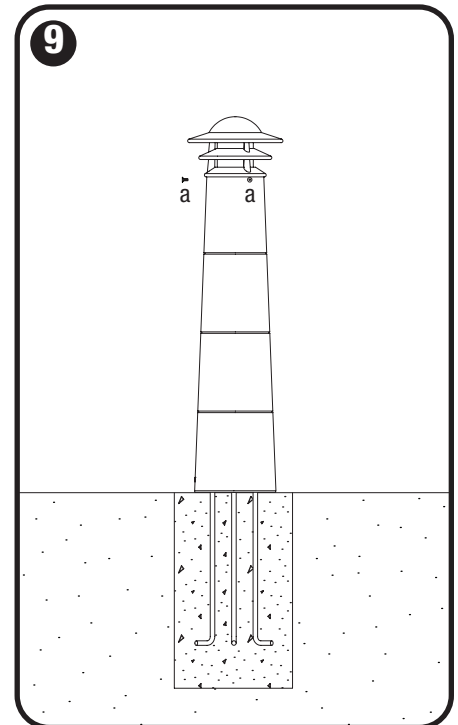
Position & attach body & mounting unit

- Slide body and mounting unit over base plate and vertical supports.
- Slide 1/2" external tooth lock washer (d), then thread 1/2"-13 nut (e) onto each vertical support.
- Use 3/4" wrench to tighten until snug.



Attach top plate & replace lamp

- Position top plate over mounting unit so holes are aligned.
- Slide #8 external tooth washer (b) onto each #8-32 x 1/2" thread-cutting hex washer head bolt (c) and thread through holes in top plate.
- Use 1/4" wrench to tighten bolts until snug.
- Replace lamp.



Position & attach head unit

- Position head unit on top of body & mounting unit so holes are aligned.
- Thread 1/4"-20 x 3/4" tamper-resistant flat head cap bolt (a) into each hole and use 5/32" hex bit for tamper-resistant bolts to tighten until snug.