

- **Danger:** Always disconnect power before wiring, or maintenance. Fixture must be installed by a qualified electrician. Do not install in locations where water collects and/or stands for prolonged periods of time. Fixture must always be installed according to local and national electrical codes, rules & regulations. Fixture must be installed on a circuit protected by Ground Fault Circuit Interrupter (GFCI).
- **Warning:** The joint MUST be sealed between the mounting surface (e.g., wall, ground, ceiling, etc.) and the fixture with an appropriate sealing / caulking compound to provide a watertight seal. Seal all conduit opening(s) and opening(s) from water entry. Before service ensure fixture is cool to touch. Always ensure that all gaskets and sealing surfaces are free of dirt and debris.

LED fixture(s), LED driver(s) and LED electrical components are more precise electrically than standard non LED products (e.g. Incandescent, Compact Fluorescent, H.I.D., etc.). Please follow the following guidelines/requirements when installing LED fixture(s)/LED driver(s).

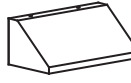
1. Install LED fixture(s) and/or LED driver(s) only on their own circuit. Do not mix any other non LED products/fixtures (e.g., Incandescent, Compact Fluorescent, H.I.D., etc.) with LED fixture(s)/LED driver(s) on a single circuit.
2. Do not use any other electrical equipment (e.g., surge protectors, photocells, etc.) that is not (rated) for use with LED fixture(s)/LED driver(s) on the same circuit as LED fixture(s)/LED driver(s).
3. Use GFCI's (by others) on each circuit (per installation instructions) appropriate for the installation.
4. Install remote surge protector(s) (by others, goes on the circuit with nothing between the surge protector and the LED fixture(s)/LED driver(s)), if the fixture is not already installed with a surge protector, to help remove power surges that may harm LED fixture(s), appropriate for the installation. Periodically check and make sure that your remote surge protector(s) are in good working order.

Components / Parts (NOTE: ALL HARDWARE FOR EACH HEAD IN BOX WITH HEAD).

- WATER TIGHT PLUG.
(1) FOR BL721 & BL731, (2) FOR BL722 & BL732
- MS X 8MM L. SET SCREWS.
(4) EACH INSTALLED IN EACH HEAD
- CLEAR RUBBER WASHER.
(2) FOR BL721 & BL731, (4) FOR BL722 & BL732
- RED O-RING.
(2) FOR BL721 & BL731, (4) FOR BL722 & BL732
- #8 STAINLESS STEEL WASHER .
(2) FOR BL721 & BL731, (4) FOR BL722 & BL732
- #8 STAINLESS STEEL SPLIT LOCK WASHER.
(2) FOR BL721 & BL731, (4) FOR BL722 & BL732
- 8-32 X 1" LONG PAN HEAD PHILLIPS STAINLESS STEEL SCREW.
(2) FOR BL721 & BL731, (4) FOR BL722 & BL732
- 1/4" X 40 X 3/4" LONG FLAT SOCKET (HEX DRIVE) HEAD, (UNFINISHED) STAINLESS STEEL SCREW (4) (INCLUDED IN BL72X & BL73X HEAD BOX)
- 5/32" ALLEN KEY
(1 PER ORDER) &
M2.5 ALLEN KEY (1)
(INCLUDED IN BL72X & BL73X HEAD BOX)



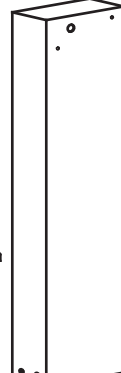
BL72X HEAD
(1) FOR BL721
OR
(2) FOR BL722



BL73X HEAD
(1) FOR BL731
OR
(2) FOR BL732

CORD, 18AWG OUTDOOR
, 300V., 105°C,
(0.300 O.D.- 0.380 O.D.)

52" LONG (40" POST)
32" LONG (20" POST)
(1) FOR BL721 & BL731,
(2) FOR BL722 & BL732



POST (1)

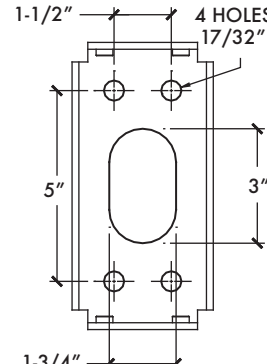
ANCHOR BOLT KIT # ABKT-G-38-4

INCLUDES:

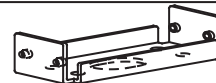
- 3/8" - 16 x 8" LONG ANCHOR BOLT, GALV. STL (4)
- 3/8" NUT, GALV. STL (8)
- 3/8" SPLIT LOCK WASHER, GALV. STL (4)
- 3/8" X 1" WASHER, GALV. STL (8)

Components Dimensions

Tools Required

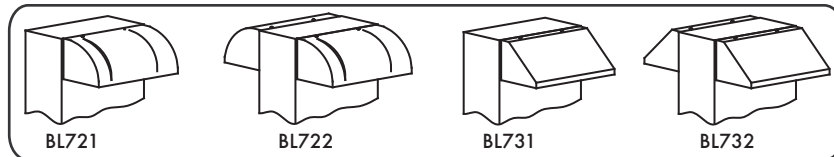


U-BASE MOUNTING DIMENSIONS
(See Sheet 5 of 5 for full size template)



U-BASE (# BL7-U-BASE-B) (1)
(ZINC PLATED STEEL, POWDER
COATED BLACK)

- Phillips Head Screwdriver
- Hardware (screws, nuts, etc., By others)
- DO NOT USE POWER TOOLS.
- ONLY USE HAND TOOLS.

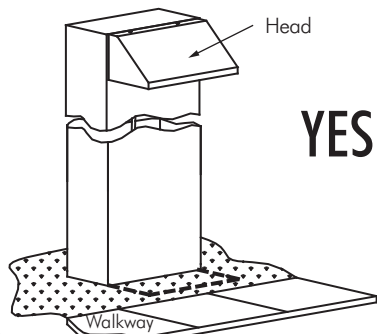


Fixture Installation: (For Wet Location)

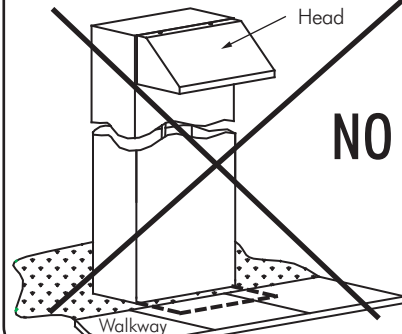
WARNING: Do Not use power tools to install fixture. Only use hand tools to install

1. Before installing fixture anchor bolts for U-Base in ground make sure the fixture Head(s) do(does) not obstruct walkway where people are walking (FIG. 1, FIG. 2). See FIG. 2B below for fixture footprint size on the ground.

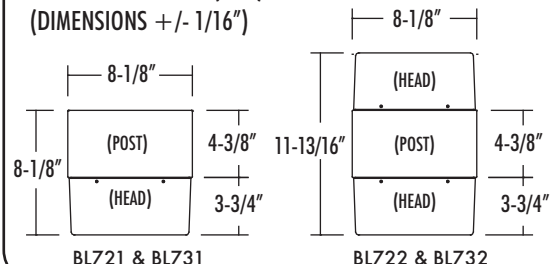
(BL731 SHOWN FOR CLARITY) FIG. 1

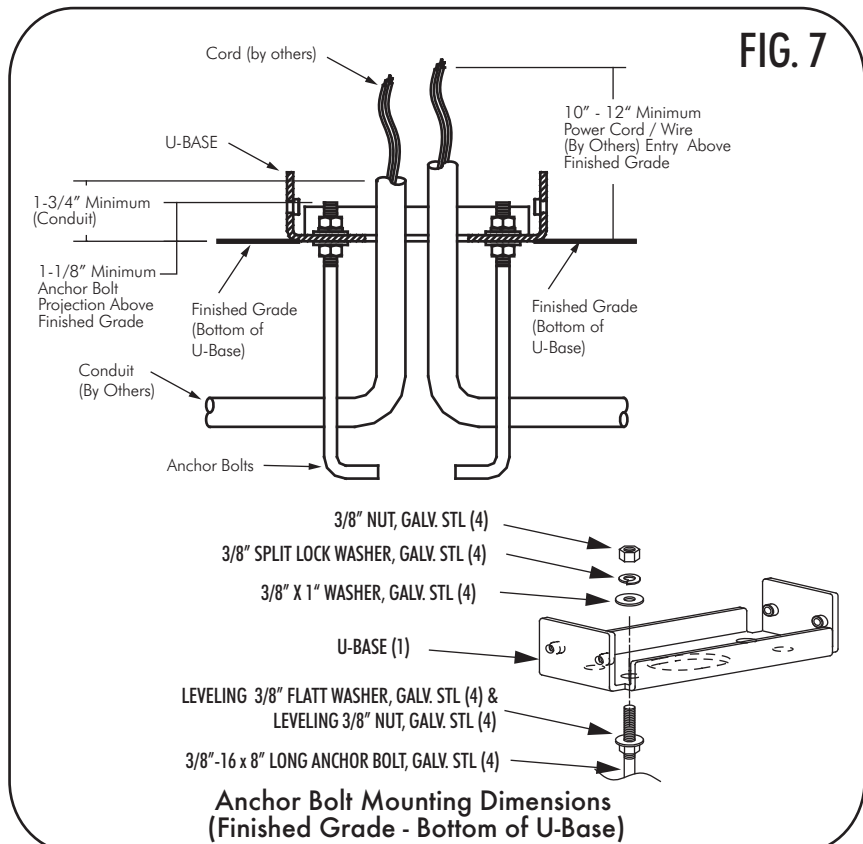
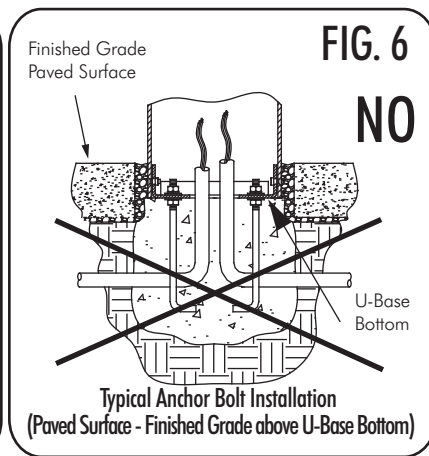
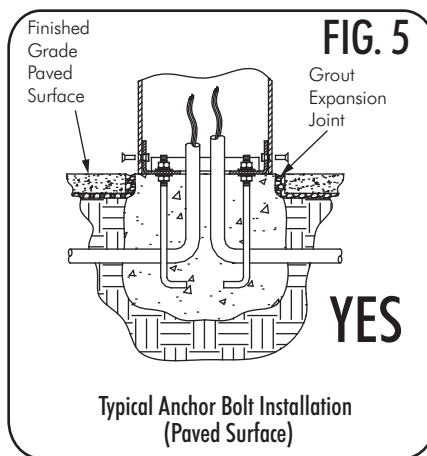
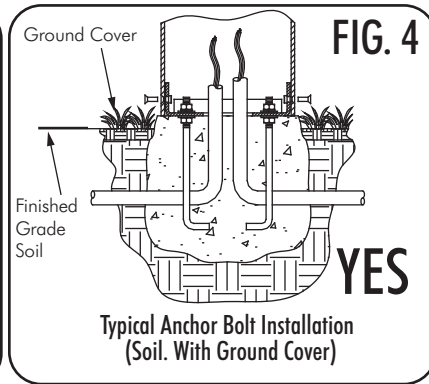
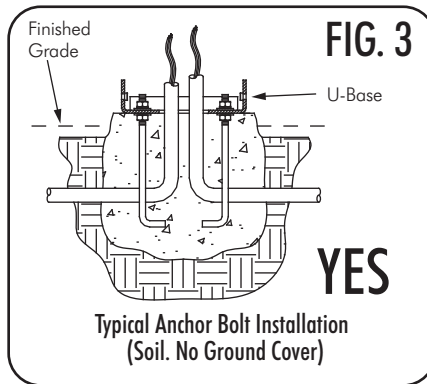


(BL731 SHOWN FOR CLARITY) FIG. 2A



- FIXTURE TOP VIEW -
 FIXTURE FOOTPRINT (SIZE) ON THE GROUND
 (DIMENSIONS +/- 1/16") FIG. 2B





Fixture Installation:(Continued)

2. When planning to install fixture in ground install fixture U-Base above finished grade level in soil (FIG. 3 and FIG. 4) or at or above finished grade level on paved surfaces (FIG. 5). Do NOT install fixture U-Base where finished grade level is above bottom of U-Base (FIG. 6).

3. Use only Anchor Bolt Assembly Kit # ABKT-G-38-4 hardware (Anchor Bolts with supplied hardware - see sheet 1 Components) or any other appropriate hardware (by others) for to install fixture's "U-Base" in solid substrate, (FIG. 3-6).

4. Consult a structural Engineer or Architect as needed when installing or planning to install anchor bolt kit (Anchor bolts) in sold in substrate (FIG. 3-6).

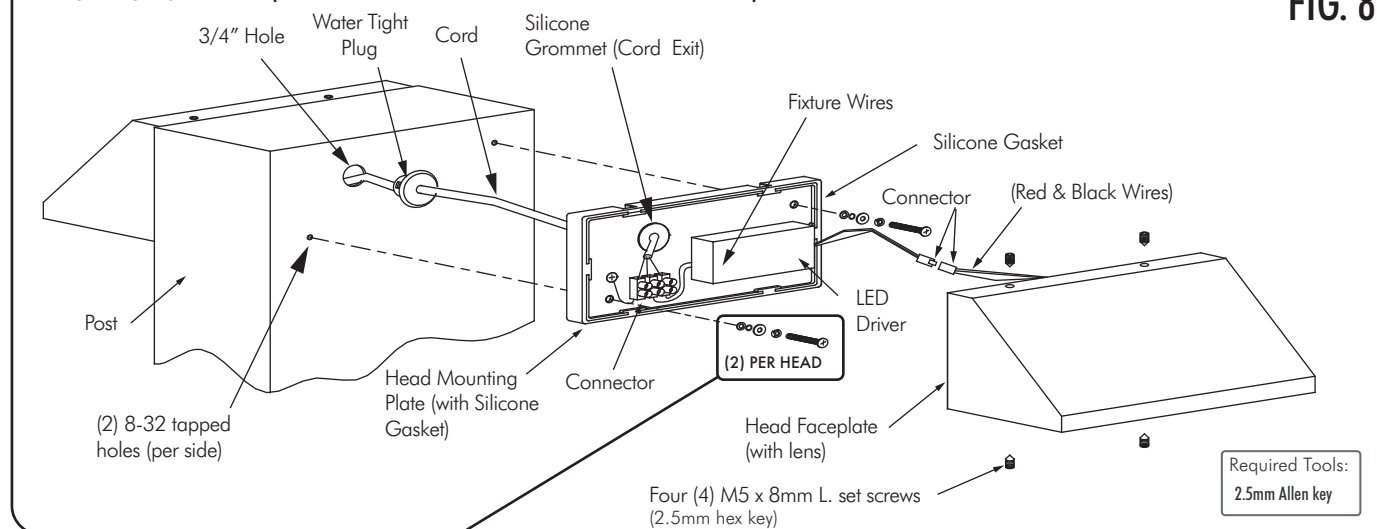
5. Assemble Anchor Bolt Assembly Kit # ABKT-G-38-4 ((4) 3/8\"-16 x 8\" anchor bolt, (8) 3/8\" nuts, (4) 3/8\" lock washers, and (8) 3/8\" washers) with U-Base (FIG. 7). As needed remove U-Base from post by removing the four 1/4\"-20 screws at bottom of post with a 5/32\" hex key (do not use power tools, see FIG. 11). If using the anchor bolt template on page 5 of 5 instead of U-Base **NOTE: Make sure to print the template at full scale and check with a ruler after printing** that the template is at full scale. If template is not at full scale Do NOT use template, use U-Base. Make sure that the anchor bolt projection, conduit (by others) and cord or wire (by others) are at their appropriate (minimum) heights (FIG. 7).

6. Secure Anchor Bolt Assembly Kit (anchor bolts and hardware) to U-Base in a solid substrate (that is smooth so the U-Base will not be scratched or marked up), making sure that the U-Base is on the ground at or above grade level, depending on your installation (see FIG. 3 - 5).

7. Check U-Base is level and if U-Base is not level level U-Base by using a level (by Others) and leveling nuts and washers, as needed, under the U-Base (FIG. 7). Again check and make sure that the anchor bolt projection, conduit (by others) and cord or wire are at their minimum heights and wiring (by others) to the fixture is in place (FIG. 7). Make sure Anchor Bolt Assembly Kit is solid in the substrate before going to Step 8, see step 6 above.

BL7 SERIES BOLLARD (BL732 HEAD AND POST SHOWN FOR CLARITY)

FIG. 8



Fixture Installation:(Continued)

8. Remove Head from own box and remove Head Faceplate (with lens) from the Head Mounting Plate by loosening (4) M5 set screws with M2.5 Allen Hex key. Do not remove set screws from Housing Faceplate (FIG. 8).

9. Disconnect the connector (FIG. 8) between the LED driver and the red and black wires in the Housing Faceplate (with lens). Do not pull on the red and black fixture wires in the Housing Faceplate (with lens).

10. Install Cord into Water Tight Plug close to cord end by piercing a small hole through center and installing cord through it. Then install cord end through Silicone Grommet in Head Mounting Plate and connect Cord Black, White and Green wires to Connector so that Cord Black wire goes to LED driver Black wire, Cord Common (White) wire goes to LED driver White wire and Cord Green wire goes to Ground wire (FIG. 8). For Dimming wires connect purple wires to purple wires and gray wires to the gray wires.

11. Lay Post on soft surface so powder coating does not get scratched. Push water tight plug (with cord) into 3/4" hole until water tight plug snaps in place (FIG. 8).

12. Insert in order onto each 8-32 screws (FIG. 9): (1) 8-32 stainless steel Split washer, then (1) 8-32 washer, then (1) red O-Ring, and last (1) clear rubber washer (FIG. 9). If using one head use two screws or if using two heads use four (4) 8-32 screws (FIG. 8).

13. Secure Head Mounting plate onto post by aligning the Head Mounting Plate over post. Screw in the 8-32 screws (with hardware from step 12 above) with #2 screwdriver only (do NOT use power tools) through 8-32 tapped holes in the post to seal out water. Do not over tighten screws. Make sure the Silicone Grommet stays in place in the Head Mounting Plate to seal out water (FIG. 8).

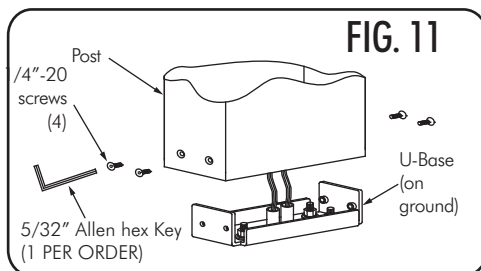
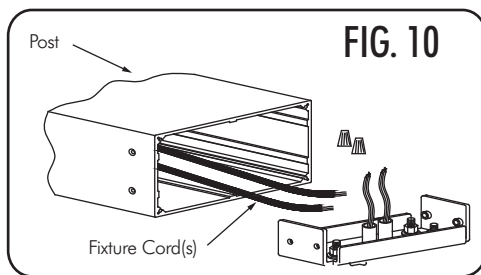
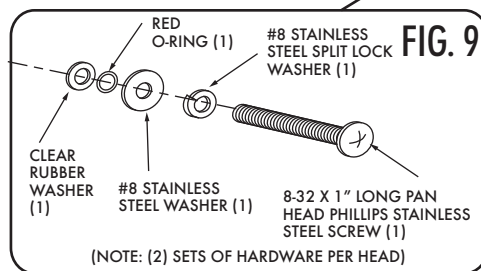
WARNING: Check fixture for input voltage before connecting power to fixture.
Danger: Always disconnect power before wiring, or maintenance.

14. Lay Post on soft surface next to U-Base so powder coating does not get scratched (FIG. 10). Connect the power supply wiring (from U-base j-box) to fixture wiring in j-box. See "Wiring" instructions (Sheet 4 of 5).

15. Reconnect the connector (FIG. 8 above) between the LED driver and the red and black wires in the Housing Faceplate (with lens). Do not pull on the red and black fixture wires in the Housing Faceplate (with lens). Check that the Silicone Gasket is in place on the Head Mounting Plate (FIG. 8) to seal out water before installing faceplate. If all or part of the silicone gasket is not in place, reapply a very thin layer of outdoor RTV silicone (DOW 732 or equivalent, by others) between the gasket and the Head Mounting plate and put the Silicone Gasket back in place. Allow the RTV Silicone to fully cure/dry (per manufacturers instructions). Then carefully reconnect Head Faceplate on Head Mounting plate by reversing process in step 8 above making sure that the silicone gasket stays in place. Do not over tighten set screws in Head.

16. Place Post over U-Base and insert all four (4) 1/4"-20 flat head screws through post into U-Base with just one to two turns of the threads with the 5/32" allen key (FIG. 11). Fully tighten two screw on one side of the post securely to the U-Base and then tighten the other two screws securely to secure post to U-Base. Do not over tighten screws.

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RELAMPING:

Return fixture Head to Liton for servicing/replacing LED. LED driver may be replaced in the field. To remove LED driver follow notes 19 and 20 (to remove Head Faceplate) and 21 and 22 to replace Head Faceplate on Head Mounting Plate.

17. Remove Head Faceplate (with lens) from the Head Mounting Plate by loosening (4) M5 set screws (FIG 12) with M2.5 Allen Hex key. Do not remove set screws from Housing Faceplate. Do not pull on Head Faceplate or let hang down.

18. Disconnect the connector (FIG. 12) between the LED driver and the red and black wires in the Housing Faceplate (with lens). Do not pull on the red and black fixture wires in the Housing Faceplate (with lens).

19. Remove LED driver wires from connector and any other wires to dimming.

20. Remove old LED driver and replace with new LED driver.

21. Reconnect Connector from LED driver wires to fixture wires (red and black). Do not pull on (red and black) wires and connect all other input and dimming wires in step 19.

22. Mount Head Faceplate (with lens) securely onto Housing Mounting Plate and secure with the four (4) M5 set screws (supplied in housing faceplate) and tighten securely with M2.5 hex (allen) key. Do not over tighten set screws in Head.

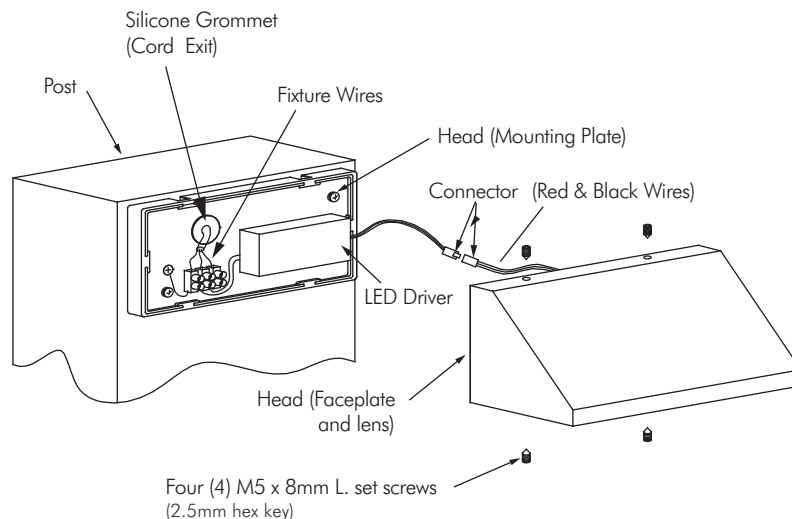
WIRING:

WARNING: Check fixture for input voltage before connecting power to fixture. Protect all wiring connections in the post with waterproof connectors (an outdoor rated j-box inside the post may be needed, depending on your installation). For dimming information (wiring diagrams, chart, etc.) see fixtures BL721, BL722, BL731 or BL732 website page. For Emergency Back Up wiring see Emergency Back Up Wiring instructions.

1. Connect ground wire (green or bare copper/aluminum) from the supply circuit to the ground wire (green or bare copper) /screw/connector from the luminaire.
2. Connect the neutral (common) wire from the power supply to the neutral wire from the luminaire.
3. Connect the main voltage supply wire (line/lead) from the power supply to the line (lead) wire from the luminaire.
4. Secure connection using UL Listed wire nuts/connectors and then with UL Listed Electrical tape (by others), as required, appropriate for the connection.

BL7 SERIES BOLLARD (BL731 HEAD AND POST SHOWN FOR CLARITY)

FIG. 12

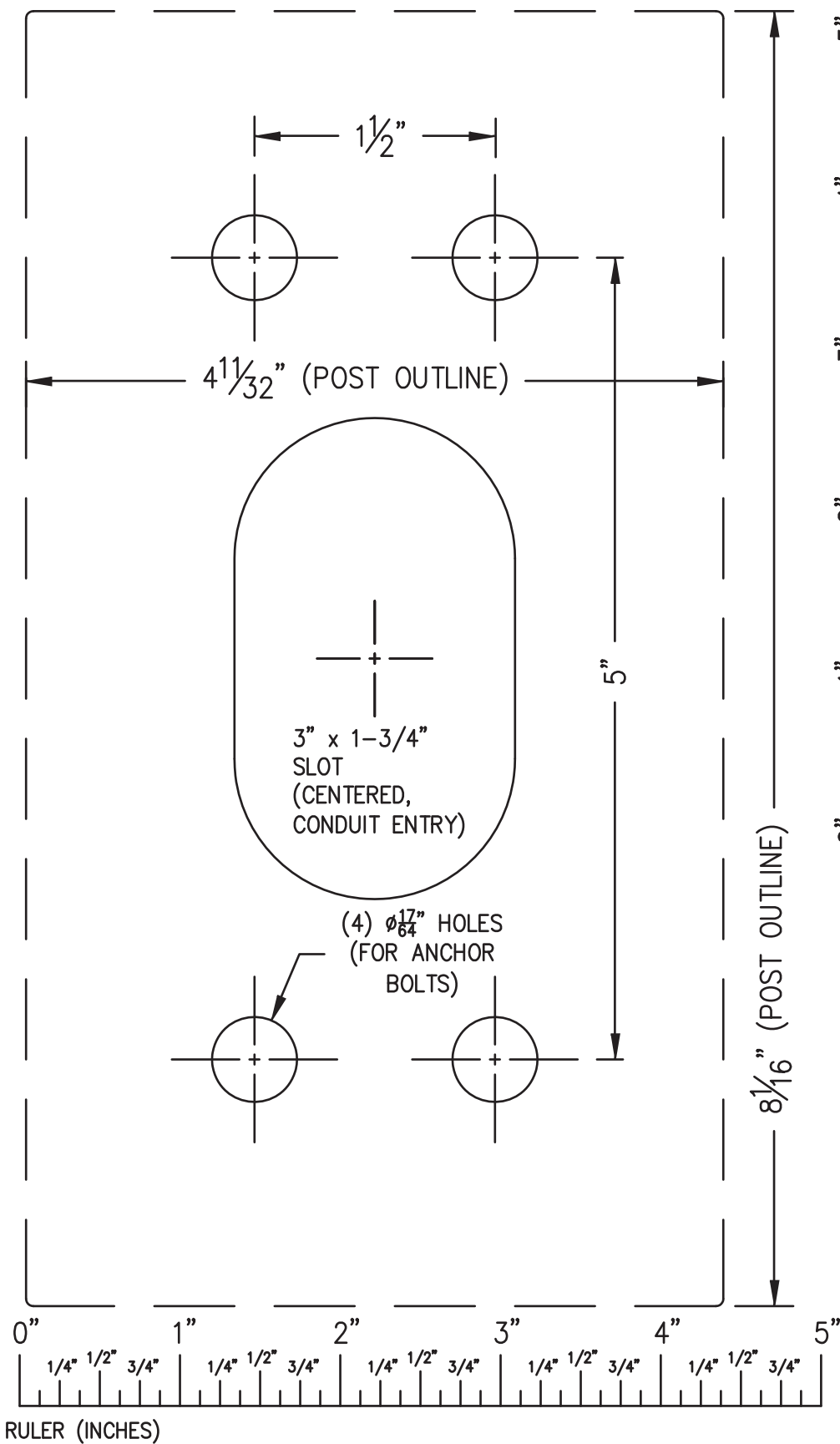


(Typical installation. Your installation may differ)

Required Tools:
2.5mm hex key

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SAVE THESE INSTRUCTIONS



DO NOT SCALE THIS TEMPLATE!

USE TEMPLATE AT FULL SCALE ONLY.

CHECK PRINTED TEMPLATE TO MAKE SURE TEMPLATE IS AT FULL SCALE BY USING RULERS ON THIS TEMPLATE AND BY MEASURING THE DISTANCE FROM HOLE TO HOLE ($1\frac{1}{2}"$ & $5"$) !

If template is still not at full scale then use U-Base.

RULER (INCHES)