

Section 2: In-Roadway Installation [Addendum For BA-700-10 and BA725-10 Legacy Base Cans]

D. Base Can Installation – Core Drill and Saw Cut (Figure 1 Located in Installation Manual)

1. Remove base can covers and store them in a safe location.
2. Begin the core drilling (typically 12 - 14 inch diameter and 28 - 36 inch deep) and saw cut process. Holes should be drilled at fixture locations. Saw cuts should then be made to allow room for the fixture power cables (typically 3½” deep x ½” wide). Saw cuts are made parallel to the direction of the pedestrian travel and in line with the centers of the conduit holes.
3. In this installation, the base can fixture cable conduit holes will not be used with conduit. However, the fixture cables will pass from the edge of the saw cut into these holes. The cables will be held in place and the holes sealed with a sealing compound such as Dollie Duct Seal Compound, or equivalent.
4. Prepare the drainage system specified by the design engineer. With this type of installation it is impractical to install a piped drain system. It is recommended that the modified French drain system is utilized. Refer to figure 1.
5. Install drain conduit. Run **3 inch**, Schedule 40 PVC, from the drain hole of the base can into the drain rock. The drain pipe should be centered on the drain hole and extend approximately 3 to 4 inches into the drain rock. Prior to pouring concrete the drain pipe will be held in position by the drain rock.
6. Suspend the base cans so they are level with the surface of the pavement. Base cans should be oriented so that the fixture optics will be aligned parallel with the traffic lane. Use of mounting jigs is recommended for proper alignment of base cans. Consult the design plans for the preferred method of base can suspension for your installation.
7. Test the drainage system by pouring water into the installed base can at each fixture location. Pour enough water to verify that the underlying ground is absorbing the water. If the base can is not draining properly, modifications to the drainage system will be necessary. In this case consult with your design engineer before proceeding. Once satisfied move on to the next step.
8. Install the fixture cables. Run fixture power cables to each base can, one black wire and one white wire to each can. If grounding is required by local code, run an additional wire (green or blue) to each base can. The ground wire can be attached to the base can using the ground strap provided at the bottom inside of each base can.
9. Encase the base cans and drainage system in concrete. It is recommended that at least 6 inches of concrete be used below the base. Fill saw cuts with Traffic Loop Sealant, or equivalent.
10. Remove mounting jig, clean out base can and replace protective plywood covers until are ready for installation.
11. Your base cans are shipped with protective plywood covers, TSC’s Part# BA-PLCVR-3/4. After installing fixtures, be sure to mark these covers, “Do Not Discard”, and save them for future use.

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E. Base Can Installation – Trench and Fill – Option 1 (Figure 2 Located in Installation Manual)

1. Remove base can covers and store them in a safe location.
2. Begin trenching process. After trenching is completed along fixture locations, prepare the drainage system as specified by the design engineer. Refer to figure 2.
3. Install drain conduit. Run **3 inch**, Schedule 40 PVC, from the drain hole of the base can into the drain rock. The drain pipe should be centered on the drain hole and extend approximately 3 to 4 inches into the drain rock. Prior to pouring concrete the drain pipe will be held in position by the drain rock.
4. Suspend the base cans so they are level with the surface of the pavement. Base cans should be, oriented so that the fixture optics will be aligned parallel with the traffic lane. Use of mounting jigs are recommended for proper alignment of base cans. Consult the design plans for the preferred method of base can suspension for your installation.
5. Test the drainage system by pouring water into the installed base can at each fixture location. Pour enough water to verify that the underlying ground is absorbing the water. If the base can is not draining properly, modifications to the drainage system will be necessary. In this case consult with your design engineer before proceeding. Once satisfied move on to the next step.
6. Install fixture cable conduit. Run **1 inch**, Schedule 40 PVC, between each base can. PVC conduit should fit snugly into the grommets located at each base can conduit hole. Complete installation by running conduit from the last base can in the system to the system controller, as specified by the design engineer.
7. Install the fixture cables. Run fixture power cables through the conduit into each base can, one black wire and one white wire. If grounding is required by local code, run an additional wire (green or blue) through the conduit to each base can. The ground wire can be attached to the base can using the ground strap provided at the bottom inside of each base can. Refer to Section 3A.
8. Encase the base cans and drainage system in concrete. It is recommended that at least 6 inches of concrete be used below the base.
9. Backfill the trench with specified material, compact and cover per the designer's specifications, taking care not to damage conduit or drainage system.
10. Remove mounting jig, clean out base can and replace protective plywood covers until fixtures are ready for installation.
11. Your base cans are shipped with protective plywood covers, TSC's Part# BA-PLCVR-3/4. After installing fixtures, be sure to mark these covers, "Do Not Discard", and save them for future use.

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F. Base Can Installation – Trench and Fill – Option 2 (Figure 3 Located in Installation Manual)

1. Remove base can covers and store them in a safe location.
2. Begin trenching process. After trenching is completed along fixture locations, prepare the drainage system as specified by the design engineer. Refer to Figure 3.
3. Install drain conduit. Run **3 inch**, Schedule 40 PVC, from the drain hole of the base can into the drain rock. The drain pipe should be centered on the drain hole and held in position by duct tape.
4. Install drain conduit. Run **3 inch**, Schedule 40 PVC, from each base can fitting into the proper coupling (right angle bend, T-adapter, etc.) Connect all couplings together using the proper length PVC pipe. Run the end of the drain conduit into the drainage system, ditch, or leaching pit. The drainage conduit pipe should have a slight negative slope.
5. Test the drainage system by pouring water into the installed base can at each fixture location. Pour enough water to verify that the drainage system is absorbing the water. If the base can is not draining properly, modifications to the drainage system will be necessary. In this case consult with your design engineer before proceeding. Once satisfied move on to the next step.
6. Install fixture cable conduit. Run **1 inch**, Schedule 40 PVC, between each base can. PVC conduit should fit snugly into the grommets located at each base can conduit hole. Complete installation by running conduit from the last base can in the system to the system controller, as specified by the design engineer.
7. Install the fixture cables. Run fixture power cables through the conduit into each base can, one black wire and one white wire. If grounding is required by local code, run an additional wire (green or blue) through the conduit to each base can. The ground wire can be attached to the base can using the ground strap provided at the bottom inside of each base can. Refer to Section 3A for details before proceeding.
8. Encase the base cans and drainage system in concrete. It is recommended that at least 6 inches of concrete be used below the base.
9. Backfill the trench with specified material, compact and cover per the designer's specifications, taking care not to damage conduit or drainage system.
10. Remove mounting jig, clean out base can and replace protective plywood covers until fixtures are ready for installation.
11. Your base cans are shipped with protective plywood covers, TSC's Part# BA-PLCVR-3/4. After installing fixtures, be sure to mark these covers, "Do Not Discard", and save them for future use.