



4" SQUARE DIRECT BURY

The advantages of aluminum poles make them the perfect option for direct buried applications. With a record of successful installations throughout the country, Strong Poles Aluminum Direct Buried Poles provide industry professionals with significant overall job savings.

Strong Poles Aluminum Direct Buried Poles are the perfect solution to the high maintenance alternative of composite poles.

Developers and Contractors can benefit from the savings associated with the highest quality, longest-lasting and lowest maintenance.

The 4" square design allows mounting direct to the pole and prevents twisting once installed.

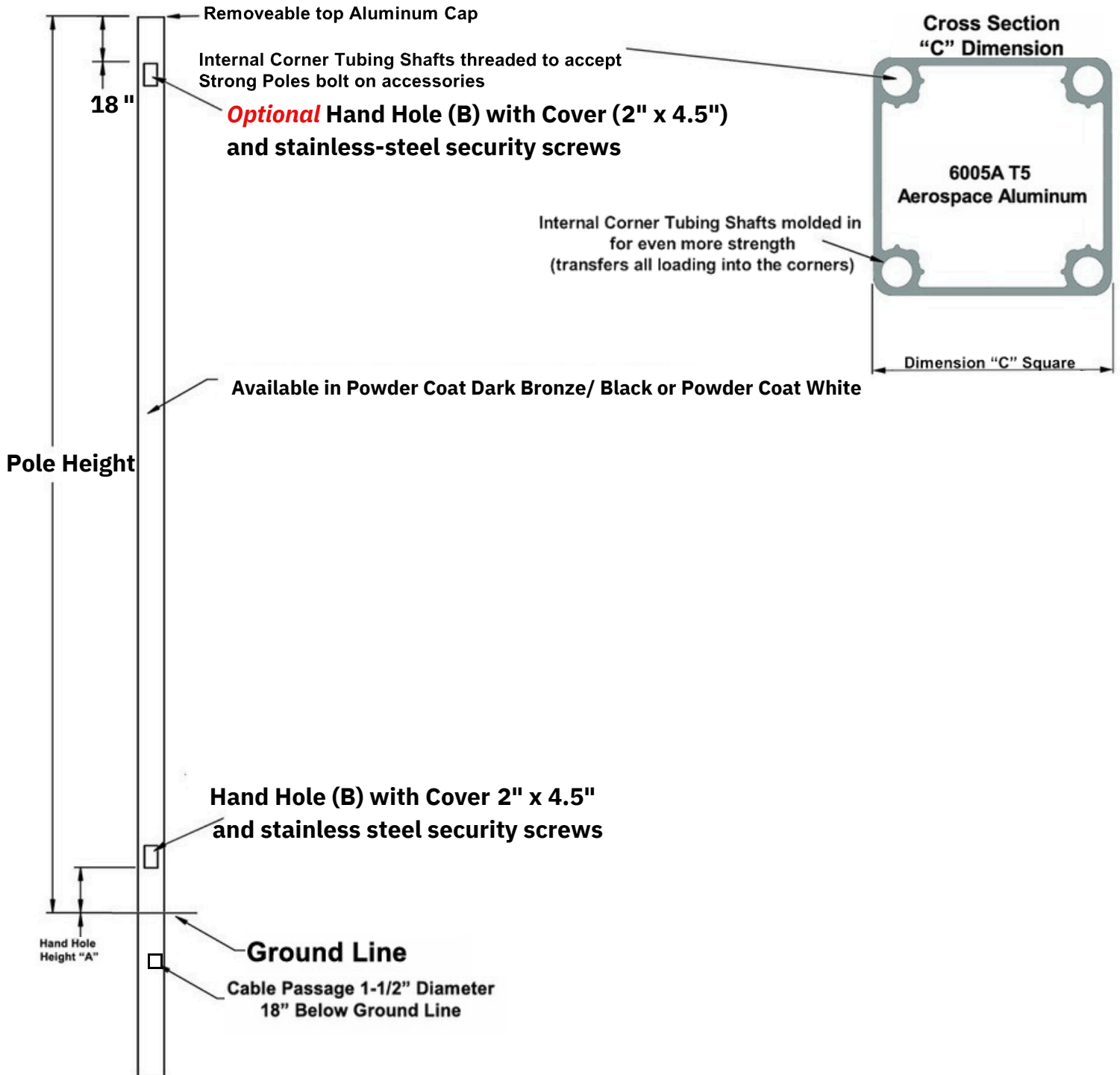
Direct buried alternative for residential applications.



- Ease of installation.
- Eliminates the need for foundations, requiring no Civil Engineer and no PE stamp, resulting in cost savings of \$300 – \$1000.
- Eliminates the need for bolt circle templates and anchor bolts.
- Speeds up the installation process while eliminating the additional freight charges of anchor bolts shipped in advance.
- Eliminates the use of shims.
- Eliminates improper bolt projections that in many instances result in high and uneven base covers.
- Eliminates the need, time and expense to grout.
- Eliminates the possibility of foundation and anchor bolt replacement in the event of a knockdown.
- Allows aluminum to be cost competitive with composite and concrete while providing a more appealing and aesthetic appearance.
- Eliminates the possibility of improper pouring/setting of foundation.
- Allows simple future retrofits by eliminating the need to match an existing bolt circle.

**Don't Settle for a repurposed light pole.
Choose the engineered solution.
StrongPoles.com / 844-669-3537**

4" SQUARE DIRECT BURY



Part Number	Pole Height (ft)	Bury Depth	Above Ground Height	A (in.)	B (in.)	C (in.)
SP-4"DB8	12'	4'	8'	18"	2" x 4.5"	4"
SP-4"DB12	16'	4'	12'	18"	2" x 4.5"	4"
SP-4"DB16	20'	4'	16'	18"	2" x 4.5"	4"

SECTION 282000 - VIDEO SURVEILLANCE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Accessories.

1.02 RELATED REQUIREMENTS

- A. Section 033000 - Cast-in-Place Concrete: Materials and installation requirements for concrete bases for camera poles.
- B. Section 078400 - Firestopping.
- C. Section 260526 - Grounding and Bonding for Electrical Systems.
- D. Section 260529 - Hangers and Supports for Electrical Systems.
- E. Section 260553 - Identification for Electrical Systems: Identification products and requirements.

1.03 REFERENCE STANDARDS

- A. AASHTO LTS - Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 2013 (Revised 2019).
- B. IEEE C2 - National Electrical Safety Code 2017.
- C. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.
- D. NECA 303 - Standard for Installing and Maintaining Closed-Circuit Television (CCTV) Systems 2019.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 - 1. Coordinate the placement of cameras with structural members, ductwork, piping, equipment, luminaires, diffusers, fire suppression system components, and other potential conflicts installed under other sections or by others.
 - 2. Coordinate the work with other installers to provide power for cameras and equipment at required locations.
 - 3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's standard catalog pages and data sheets for each system component. Include ratings, configurations, standard wiring diagrams, dimensions, finishes, service condition requirements, and installed features.
 - 1. Camera Poles: Include information on maximum supported effective projected area (EPA) and weight for design wind speed.
- C. Camera Poles: Certify that products and associated supports comply with specified structural design criteria.

PART 2 PRODUCTS

2.01 ACCESSORIES

- A. Camera Mounting Supports: Where not factory installed, provide mounting supports necessary for installation. Products:
 - 1.
 - a. StrongPoles, LLC; HD Parapet Camera Mount: www.strongpoles.com/#sle.
 - b. StrongPoles, LLC; Parapet Mount: www.strongpoles.com/#sle.
 - c. StrongPoles, LLC; Surface Mount Pole: www.strongpoles.com/#sle.
- B. Camera Poles:
 - 1. Provide poles suitable for cameras, supports, and accessories to be installed.
 - 2. Structural Design Criteria:

- a. Comply with AASHTO LTS.
 - b. Wind Load: Include effective projected area (EPA) of cameras, supports, and accessories to be installed.
 - 1) Design Wind Speed: [_____] mph ([_____] kph), with gust factor of 1.3.
 - c. Dead Load: Include weight of proposed cameras, supports, and accessories.
 - d. [_____].
3. Pole Configuration: As indicated on drawings.
4. Pole Configuration:
- a. Material: Use steel or aluminum.
 - b. Shape: Use square or round, straight or tapered.
 - c. Mounting Height: [_____] , unless otherwise indicated.
 - d. Mounting: Install on concrete foundation, height as indicated on the drawings, unless otherwise indicated.
5. Provide ground lug, accessible from handhole.
6. Provide the following:
- a. Top cap.
 - b. Handhole.
 - c. Anchor bolts with leveling nuts or leveling shims.
 - d. Anchor base cover.
 - e. Pole-to-pole tension, size as required for installed camera/bracket.
7. Products:
- a. Strong Poles, LLC; SteadyMax Camera Poles: www.strongpoles.com/#sle.
 - b. Strong Poles, LLC; 4 Inch Square Camera Poles: www.strongpoles.com/#sle.
 - c. Strong Poles, LLC; 5 Inch Square Direct-Burial Camera Poles: www.strongpoles.com/#sle.
- C. Provide components as indicated or as required for connection of video surveillance system to devices and other systems indicated.
- D. Provide cables as indicated or as required for connections between system components.
- E. Provide accessory racks/cabinets as indicated or as required for equipment mounting.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that ratings and configurations of system components are consistent with the indicated requirements.
- C. Verify that mounting surfaces are ready to receive system components.
- D. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system where applicable.
- E. Verify that conditions are satisfactory for installation prior to starting work.

3.02 INSTALLATION

- A. Install video surveillance system in accordance with NECA 1 (general workmanship) and NECA 303.
- B. Install products in accordance with manufacturer's instructions.
- C. Provide required support and attachment in accordance with Section 260529.
- D. Pole-Mounted Cameras:
 - 1. Maintain the following minimum clearances:
 - a. Comply with IEEE C2.
 - b. Comply with utility company requirements.
 - 2. Foundation-Mounted Poles:
 - a. Provide cast-in-place concrete foundations for poles as indicated; see Section 033000.

- 1) Install anchor bolts plumb using template furnished by pole manufacturer.
- 2) Position conduit to enter pole shaft.
- b. Install foundations plumb.
- c. Install poles plumb, using leveling nuts or shims as required to adjust to plumb.
- d. Tighten anchor bolt nuts to manufacturer's recommended torque.
- e. Install nonshrink grout between pole anchor base and concrete foundation, leaving
- f. small channel for condensation drainage.
Install anchor base covers or anchor bolt covers as indicated.
3. Embedded Poles: Install poles plumb.
- E. Provide grounding and bonding in accordance with Section 260526.
- F. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 078400.
- G. Identify system wiring and components in accordance with Section 260553.

END OF SECTION