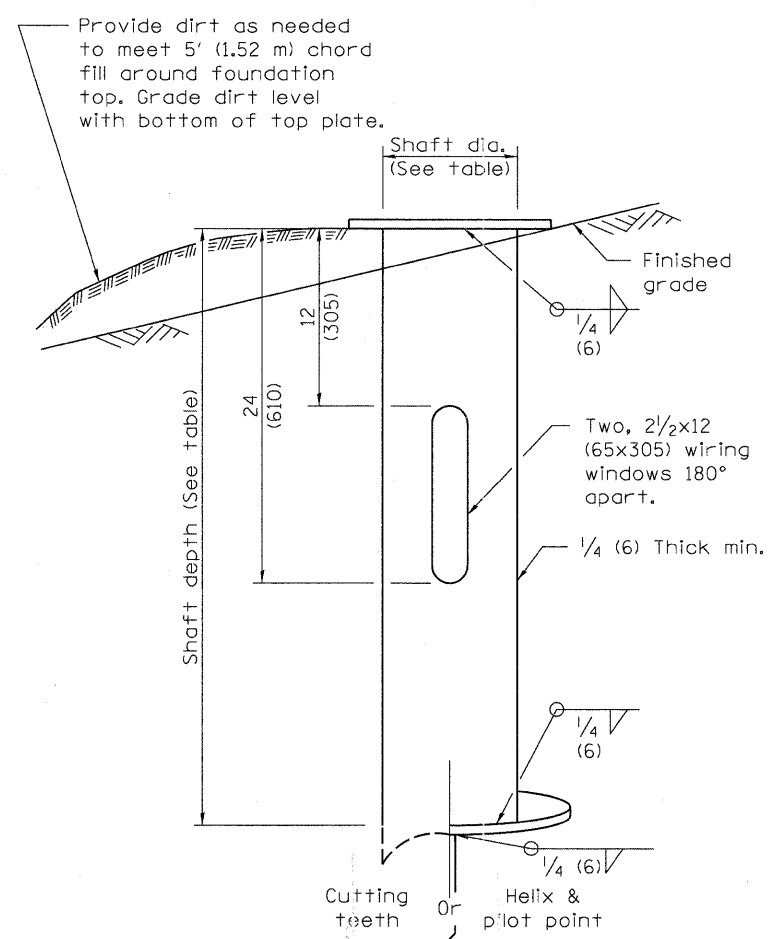


Wiring window location identification marks shall be notched in side of plate or stamped on top.



HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
25 FT.	12 1/2"	8 3/4"	6 FT.	18"x18"x1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

Notes:

- All dimensions are in inches (millimeters) unless otherwise shown.
- All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall monitor installation resistance of metal foundations and notify the Engineer if other conditions are encountered.
- All material shall be galvanized according to AASHTO M111, unless otherwise specified.
- All welds shall be continuous and not less than 1/4" (6.35 mm) fillet welds. The welded foundation shall be capable of withstanding 10,000 FT/LBS (13558.18 n.m.) of installation torque applied about the axis of the foundation.
- The helix foundation shaft shall be installed vertical and the base plate shall be in level.
- The cable trench shall be backfilled and firmly compacted before the installation of the light pole.
- Any voids within the metal foundation shall be filled with fine aggregate.
- Metal foundations shall be installed in undisturbed soil. Pre-drilling a pilot hole and/or backfilling around the foundation is not allowed.
- The metal foundation shall not be installed to a torque which exceeds the manufacturer's maximum torque rating nor shall it be installed to an installation torque value or less than 3,500 FT LB (4,750 KNM). Metal foundations that are not installed to full installation depth or do not achieve the minimum installation torque shall be removed and replaced with a concrete foundation at no additional cost.
- The base plate shall be perpendicular to the shaft axis ($\pm 1^\circ$) and the hole centerline shall be concentric (± 0.188) to the shaft axis.
- The pilot point and shaft axis shall be concentric (± 0.125) and in line ($\pm 2^\circ$).
- The base plate shall be stamped with the manufacturer's name and date of manufacture.
- All light poles shall be grounded to the metal foundations.