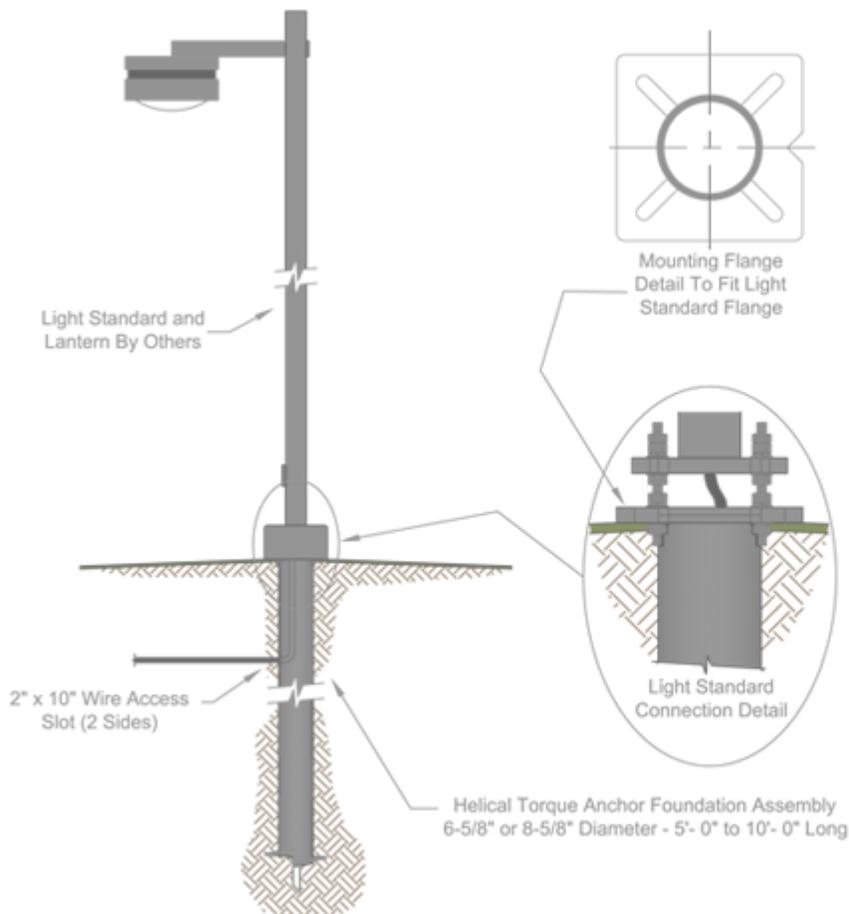




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## Helical Light Pole Foundations

Our light pole support anchors are a quick and reliable foundation method for at grade and above grade applications to support street, site and parking light poles. The light pole support anchor systems are installed with hydraulic rotary equipment that turn the foundation in to the ground with the assistance of a helix shaped plate that acts as a screw for ease of installation. For more information please see our Utility Industry Anchor Design and Maintenance Manual.



### SPECIFICATIONS FOR STANDARD SIZE PILES

**Part Number: TAH-663-84 14**

6-5/8" Dia. x 0.280 Wall x 7'- 0" Long

14" Dia x 3/8" Helical Plate

2" x 10" Wire Access - 2 Sides

1" x 15-3/4" Sq. Mounting Plate

Hot Dip Galvanize - ASTM A-123 Gr. 100

**Part Number: TAH-863-84 14**

8-5/8" Dia. x 0.250 Wall x 7'- 0" Long

14" Dia x 3/8" Helical Plate

2" x 10" Wire Access - 2 Sides

1" x 15-3/4" Sq. Mounting Plate

Hot Dip Galvanize - ASTM A-123 Gr. 100

### LOAD CAPACITIES

(Based Upon Soil SPT Value,  $N \geq 7$  bpf)

**Part Number: TAH-663-84 14**

Design Overturning Moment < 12,000 ft-lb

Design Lateral Load < 1,000 lb

**Part Number: TAH-863-84 14**

Design Overturning Moment < 17,500 ft-lb

Design Lateral Load < 1,200 lb



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ECP Utility manufactures helical light pole anchors as foundations for street and parking light pole foundations. Ideal for compression and tension forces, helical screw anchor foundations apply to all types of lighting foundations. ECP Utility is "The Very Best" manufacturer of helical foundation anchors for the civil construction and utility industries. ECP produces the highest quality helical anchors and foundation accessories to provide support for light poles without the need for concrete.

Helical pier foundation systems are installed to reach competent soils located below the active zone, creating a predictable torque-to-capacity ratio. The helix geometry of each steel flight minimizes disturbance of the soil so that no excavation or spoils will need to be removed during or after installation. ECP Utility helical foundation systems can be installed in all weather conditions, keeping job on track and on time.

Our Utility Engineering Department will work with you on product selection and foundation design to provide the strongest foundation system possible. Each high strength helical foundation anchor has galvanized helix lead section to which steel extensions of the same size can be added to reach desired depths and or torque readings. Various sizes and configurations are available to match load requirements and soil conditions.

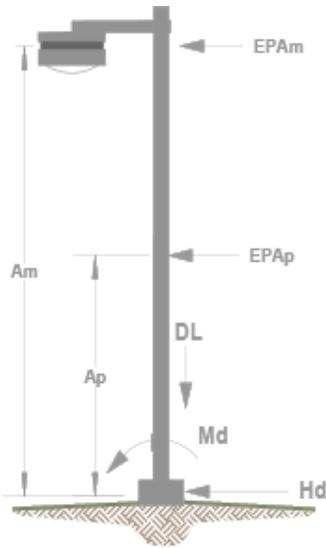
Helical ground anchors have changed the utility construction industry by providing a quick, cost competitive and verifiable solution to utility professionals throughout the world. ECP Utility helical anchors provide a verifiable foundation element for tension and compressive applications for telecommunication towers, utility poles, transmission and distribution lines, solar panel and wind tower foundations. Don't wait, call the steel foundation experts today.

Light Pole Foundations are Engineered for:

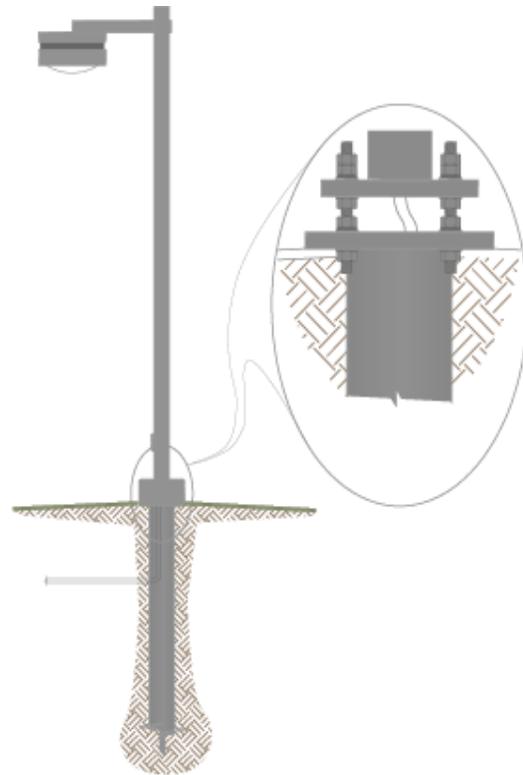
- Street Lighting
- Parking Lot Lighting
- Decorative Light Poles
- Highway Signage
- Monopoles
- Foundation Support



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$q$  = wind pressure  
 EPAm = Effective projected area of light fixture  
 EPAp = Effective projected area of light pole  
 Am = Moment arm to EPAm centroid  
 Ap = Moment arm to EPAp centroid  
PILE REACTIONS  
 $Hd = H1 + H2$   
 $= [EPAm \times q] + [EPAp \times q]$   
 $Md = [H1 \times Am] + [H2 \times Ap]$



Resultant Pile Foundation Loads

Light Standard Connection Details

It's Recommended That a Registered Professional Engineer Conduct The Design

DESIGN LATERAL LOAD <sup>2</sup>	DESIGN OVERTURNING MOMENT <sup>2</sup>	RECOMMENDED HELICAL FOUNDATION <sup>2</sup>	PRODUCT PART NUMBER
150 – 500 lb.	< 3,500 ft-lb.	4" Dia x 4'-8" Long	LPS-400-60
500–1,000 lb.	<10,500 ft-lb.	6-5/8" Dia x 5' Long	LPS-663-60
500–1,000 lb.	<10,500 ft-lb.	6-5/8" Dia x 7' Long	LPS-663-84
1,000–1,200 lb.	<21,000 ft-lb.	8-5/8" Dia x 5' Long	LPS-863-60
1,000–1,200 lb.	<21,000 ft-lb.	8-5/8" Dia x 7' Long	LPS-863-84
1,200–1,500 lb.	<37,000 ft-lb.	10-3/4" Dia x 7' Long	LPS-1075-84
1,200–1,500 lb.	<37,000 ft-lb.	10-3/4" Dia x 10' Long	LPS-1075-120

Notes:

1. The above lateral loads and overturning conditions must be evaluated during
2. These design loads are based on and 2.5" in all other foundations.