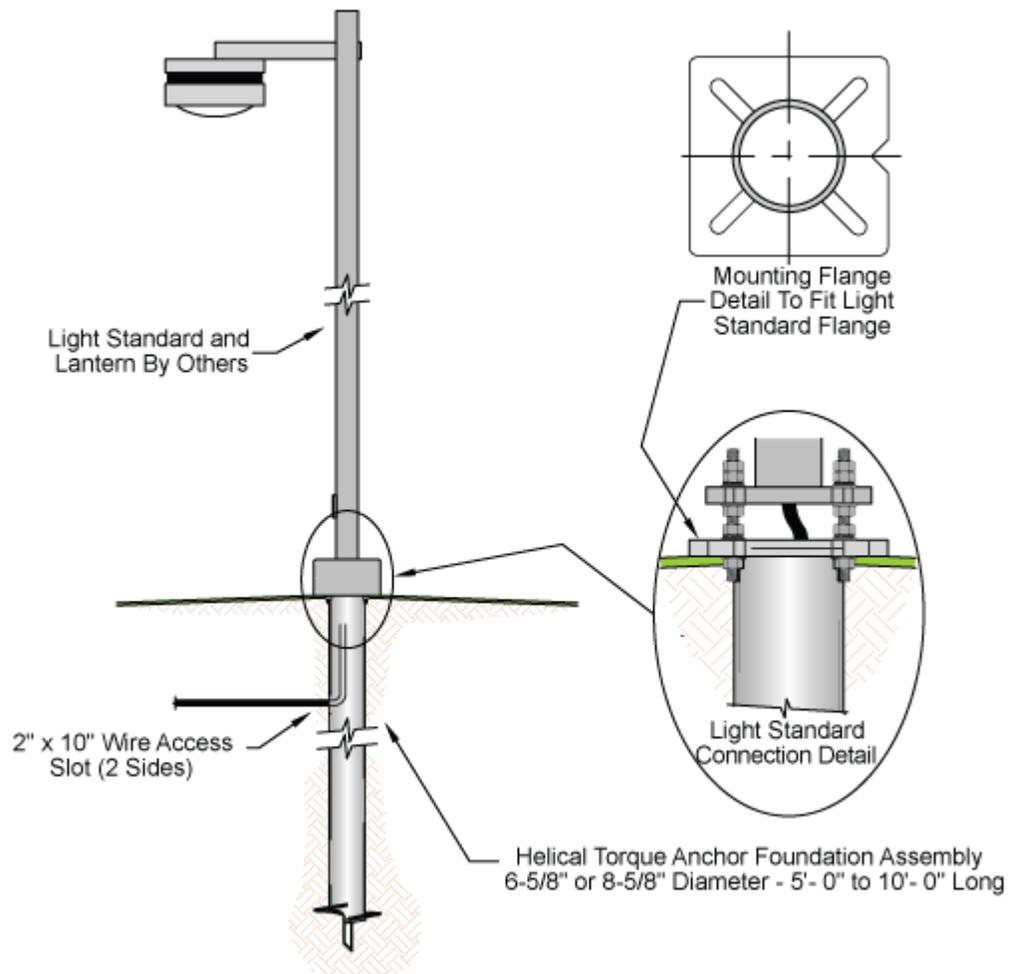




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## Light Pole Foundations

ECP ONE Step Light Pole foundations are an immediate foundation system for at grade and above grade applications to support street, site and parking light poles. ECP Light Pole Foundations are installed with hydraulic rotary equipment that turn the foundation in the ground with the assistance of a helix shaped plate that acts as a screw for ease of installation. To keep the installation easy a cableway is precut in the shaft to allow for wiring conduit access through the side then up through the base plate. Unlike the traditional concrete method, there is no site preparation, weather delays, curing time or spoils to remove. Visit our utility website for complete information on street light pole foundations, guy wire anchors and other pole line hardware.



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ECP manufactures helical light pole foundations in the USA for street and parking light pole foundations. These are ideal for compression and tension forces, helical screw anchor foundations apply to all types of lighting foundations. ECP is "The Very Best" manufacturer of utility anchor products for the civil and utility construction industries. ECP produces the highest quality helical anchors and foundation accessories to provide light pole foundations without the need for concrete. ECP light pole anchor 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 light pole foundation systems can be installed in all weather conditions, keeping job on track and on time.

The ECP 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 light 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:**

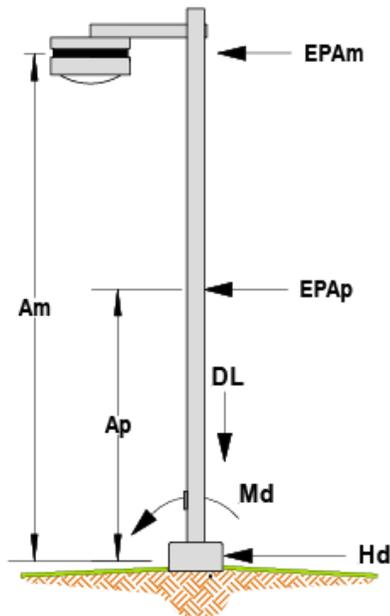
- Street Lighting
- Parking Lot Lighting
- Decorative Light Poles
- Highway Signage
- Monopoles
- Foundation Support



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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**

$$H_d = H_1 + H_2 = [EPAm \times q] + [EPAp \times q]$$

$$M_d = [H_1 \times Am] + [H_2 \times Ap]$$

Resultant Pile Foundation Loads

**It Is 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.



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Earth Contact Products (ECP) is the leading manufacturer of USA made helical foundation products in the electric utility industry. Our goal is to provide customers with the highest quality utility anchor products in a timely manner and at reasonable prices. Ranging from our family of foundation underpinning products to our helical guy anchors and poleline hardware products, you can count on ECP to provide products that are Designed and Engineered to Perform.

For technical information see our Utility Anchor Technical Manual.



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