

## **Index 521-650 Light Pole Pedestal – Wall Coping**

### **Design Criteria**

***AASHTO LRFD Bridge Design Specifications; Structures Design Guidelines (SDG)***

### **Design Assumptions and Limitations**

Use this Index with Indexes 521-422, 521-423, 521-427, 521-428, 521-820, 515-021, 521-510 as appropriate.

Anchor Bolts were designed for wind loads on Standard Index 715-040 Light Poles.

For poles at or below elevations in the table, 4~1" diameter anchor bolts meet design criteria. Where elevations are 75 feet or less but greater than those shown in Table 1 4~1 ¼" diameter anchor bolts are required.

The pedestal and supporting junction slab is designed to accommodate the following unfactored loads:

Axial Dead Load = 1.56 kip

Wind Load Moment about Transverse Axis = 40.6 kip-ft

Wind Load Moment about Longitudinal Axis = 28.3 kip-ft

Dead Load Moment about Longitudinal Axis = 1.69 kip-ft

Torsion about Pole Axis = 3.56 kip-ft

Maximum Shear = 1.38 kip

Locate the centerlines of pedestals a minimum 3'-10" away from centerlines of open joints in junction slabs and traffic railings.

### **Plan Content Requirements**

In the Plans:

Show Light Pole Pedestals on Plan and Elevation wall layout sheets. Use stations or longitudinal dimensions to define pedestal locations. Include anchor bolt diameters.

### **Payment**

No separate payment is made for Light Pole Pedestals. See Payment Note on the ***Standard Plan***.