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, 521-610, 521-820, 515-021, and 521-510 as appropriate.

Anchor Bolts were designed for wind loads on Standard Index 715-002 Light Poles with a maximum 40 foot luminaire mounting height.

The nominal load capacities given should be greater than the computed light pole loads calculated using the LRFD LTS Extreme Event I limit state:

Axial Dead Load = 1.56 kip
Wind Load Moment about Bridge Transverse Axis = 40.6 kip-ft
Wind Load Moment about Bridge Longitudinal Axis = 28.3 kip-ft
Dead Load Moment about Bridge 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***.