**Light Pole Pedestal for Approach Slab or Bridge Deck Thickness Less Than 1'-5\(\frac{1}{2}\)" at Coping**

**Typical Section at Light Pole Pedestal for Approach Slab or Bridge Deck Thickness Less Than 1'-5\(\frac{1}{2}\)" at Coping**

**Revisions**

- 1'-4" Min. (Top & Bottom of Slab)
- 2' - 2" Ø Conduits
- Anchor Plate (Shift as required to clear Anchor Bolts)
- Bars 4F1 (Pairs) (Typ.)
- Bars 4F2 (Pairs)
- Bars 4F3 (Pairs)
- Bars 4F4 (Pairs)
- Bars 4F5 (Pairs)
- Bars 4G (Pairs)
- Bars 4H (Top)
- Anchor Plate (Shift as required to clear Traffic Railing, Approach Slab or Bridge Deck Reinforcing) (Typ.)
- Anchor Plate (Field Bend & Tie to Top Slab Reinforcing)
- Bars 4G (Tie to Top Slab Reinforcing)
- Bars 4G (Tie to Top Slab Reinforcing)
- Anchor Plate (Top and Sides)
- Anchor Plate (Field Bend & Tie to Top Slab Reinforcing)
- Anchor Plate (Top & Bottom of Slab)
- Anchor Plate (Shift as required to clear Traffic Railing, Approach Slab or Bridge Deck Reinforcing) (Typ.)
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**Light Pole Pedestal for Approach Slab or Bridge Deck Thickness at Coping 1'-5" or Greater**

**Plan View**
- **Bars 4F1, 4F2 (Pairs)**
- **Bars 4G (Top)**
- **Bars 4F5 (Pairs)**
- **Bars 4F4 (Pairs)**
- **Bars 4J1 (Pairs)**
- **Bars 4F3 (Pairs)**
- **Bars 4J2 (Pairs)**
- **Bars 4H (Top)**
- **Bars 4J3 (Pairs)**
- **Bars 4F6 (Pairs)**
- **Bars 4J4 (Pairs)**

**Elevation View**
- **Bars 4G (Top) - 7 Sp. @ 1'-0" ±**
- **Bars 4I (Top & Bottom)**
- **Bars 4F5 (Pairs)**
- **Bars 4J5 (Pairs)**
- **Bars 4F6 (Pairs)**
- **Bars 4J6 (Pairs)**

**Typical Section at Light Pole Pedestal for Flat Slab or Bridge Deck Thickness at Coping 1'-5" or Greater**
- **Bars 4F1 (Pairs)**
- **Bars 4F3 (Pairs)**
- **Bars 4F4 (Pairs)**
- **Bars 4F5 (Pairs)**
- **Bars 4F6 (Pairs)**
- **Bars 4J1 (Pairs)**
- **Bars 4J3 (Pairs)**
- **Bars 4J5 (Pairs)**

**Notations**
- Anchor Bolt pattern orientation shall be as shown.
- Light Pole Pedestal and Light Pole (dashed lines)
- Anchor Plate (dashed lines)

**Construction Details**
- Bars 4G (Tie to Top Slab Reinforcing)
- Bars 4F3 (Pairs) (Typ.)
- Bars 4F2 (Pairs) (Typ.)
- Bars 4F1 (Pairs)
- Bars 4I (Pairs)
- Bars 4J2 (Pairs)
- Bars 4J3 (Pairs)
- Bars 4H (Top)
- Bars 4J4 (Pairs)

**Dates**
- 01/01/10
- 01/01/11

**CROSS REFERENCE**
For Bars 4H & 4G, Approach Slab (Reinforcing not shown for clarity).

**NOTE:** Anchor Bolt, Nuts, Washers and Anchor Plate are dashed for clarity.
CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

REINFORCING STEEL NOTES:

a. When Pedestal is attached to Pedestrian/Bicycle Railing - Index No. 820 and the Bridge Deck or Approach Slab thickness is less than 1'-5", Bars 4J1 shall have leg length and bar length shown in parentheses.

b. The number of bars shown in parentheses is for Bars 4F4 when Pedestal is attached to Pedestrian/Bicycle Railing - Index No. 820, and the Bridge Deck or Approach Slab thickness is less than 1'-5".

c. Lap Splices for Bars 4J2 shall be a minimum of 1'-4". Lap Splices for Bars 4J1 & 4J2 shall be a minimum of 1'-8".

d. Bars 4J1 and 4J2 are not required when Pedestal thickness is less than 1'-5". Field trim length of Bars 4J2 on Retaining Wall Coping to maintain cover when Pedestal thickness is less than 2'-0".

e. All bar dimensions in the bending diagrams are out to out. Lap Splices for Bars 4F4 & 4F5 shall be minimum of 1'-8".

NOTES GJM

BARS 4J1 & 4J2

LENGTH "NO. REQD.

01/01/11

DATE

1. Concrete and Reinforcing Steel required for the construction of the Pedestal shall meet the same requirements as the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.

2. Light Pole Pedestal may be used with the following:

(a) Index No. 420 - Traffic Railing (32" F Shape),
(b) Index No. 422 - Traffic Railing (42" Vertical Shape),
(c) Index No. 423 - Traffic Railing (32" Vertical Shape),
(d) Index No. 424 - Corral Railing,
(e) Index No. 425 - Pilaster/Bicycle Railing,
(f) Index No. 521 - Aluminum Pedestrian/Bicycle Bullet Railing for Traffic Railing (32" F Shape), or
(g) Index No. 522 - Traffic Rail (Sound Barrier (Bridge)).

3. The Pedestal and Deck are designed to resist the following Working or Pedestrian/Bicycle Railing are similar.

4. Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index No. 17315 and the following design limitations:

Load Case 1: See Table 1

Load Case 2: 150 mph Design Wind Speed, 15' arm length, 50 Design Mounting Height with a 75' bridge deck height above natural ground, or MWL.

Anchor Bolt Diameter: 1" Ø (Load Case 1), 1.5" Ø (Load Case 2)

Anchor Bolts: ASTM F1554 Grade 55

Washers: ASTM F436 Type 1

Anchor Plate: ASTM A709 (Grade 36) or ASTM A36.

All Nuts, Bolts and Washers shall be galvanized by ASTM F2239.

The Contractor is responsible for ensuring the anchor bolt configuration is compatible with the light pole base plate. Submit modifications of the anchor bolt design to the Engineer for approval.

5. Anchor Bolts must be installed plumb.

6. For Conduit, Pull Box, Expansion/Deflection Fitting and adjacent Reinforcing Steel details, see Utility Conduit Detail Sheets.

7. PAYMENT: The cost of Wire Screen, Anchor Bolts, Nuts, Washers and Anchor Plates shall be included in the Bid Price for Light Poles. The cost of all labor, Concrete and Reinforcing Steel required for the Construction of the Pedestals, Pull Boxes, and Miscellaneous Hardware required for the completion of the Electrical System, shall be included in the Bid Price for the Traffic Railing or Pedestrian/Bicycle Railing the Pedestal is attached to.

8. Use of Reinforcing steel A is not compatible with the light pole base plate. Use of Reinforcing steel B is compatible with the light pole base plate. Submit modifications of the anchor bolt design to the Engineer for approval.

9. Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index No. 17315 and the following design limitations:

Load Case 1: See Table 1

Load Case 2: 150 mph Design Wind Speed, 15' arm length, 50 Design Mounting Height with a 75' bridge deck height above natural ground, or MWL.

Anchor Bolt Diameter: 1" Ø (Load Case 1), 1.5" Ø (Load Case 2)

Anchor Bolts: ASTM F1554 Grade 55

Washers: ASTM F436 Type 1

Approach Slab thinner than 1'-1"

Deck or Approach Slab thinner than 1'-1"

Field trim length of Bars 4J2 on Retaining Wall Coping to maintain cover when Pedestal thickness is less than 2'-0".

Bars 4J1 and 4J2 are not required when Pedestal thickness is less than 1'-5".

Light Pole Pedestal

Bars 4J1 & 4J2

Length "No. Req'd.

1'-0"

2'-0"

3'-0"

4'-0"

5'-0"

6'-0"

7'-0"

8'-0"

9'-0"

10'-0"

11'-0"

12'-0"

13'-0"

14'-0"

15'-0"

16'-0"

17'-0"

18'-0"

19'-0"

20'-0"