CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

REINFORCING STEEL NOTES:

a. When Pedestal is attached to Pedestrian/Bicycle Railing - Index No. 820 on an 8' wide concrete curb and the Bridge Deck or Approach Slab thickness is less than 1' - 1½". Bars 4F3 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 on an 8' wide concrete curb and the Bridge Deck or Approach Slab thickness is less than 1' - 1½".

c. Lap Splices for Bars 4F1, 4F2 & 4F3 shall be a minimum of 1' - 4". Lap Splices for Bars 4F4 & 4F5 shall be a minimum of 1' - 8".

d. Bars 4J1 and 4J2 are not required when Pedestal thickness is less than 1' - 5½". Field trim length of Bars 4J2 on Retaining Wall Capping to maintain cover.

e. All bar dimensions in the bending diagrams are out to out. 4 ~ (Bolt Dia.+ ⅜") Ø holes equally spaced

4'-0" Bars 4F1, 4F2, 4F3, 4F4 & 4F5

1' - 6" Bars 4H

1'-3½" Ø bolt hole circle

ANCHOR PLATE DETAIL

Light Pole Pedestal Notes:

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:
   - Index No. 420 - Traffic Railing (32" F Shape), Index No. 422 - Traffic Railing (4F Vertical Shape), Index No. 423 - Traffic Railing (32" Vertical Shape), Index No. 424 - Traffic Railing (Corral Shape), Index No. 425 - Traffic Railing (4F Shape), Index No. 820 - Pedestrian/Bicycle Railing.
   - Index No. 821 - Aluminum Pedestrian/Bicycle Bullet Rail for Traffic Railing (32" F Shape), or Index No. 3210 - Traffic Railing (Noise Wall Bridge).

3. Unless otherwise noted, Traffic Railing (32" F Shape) is shown in all Views and Sections. The Pedestal details for other Traffic Railings and Pedestrian/Bicycle Railings are similar.

4. Anchor Bolt Design:
   - Anchor Bolt design is based on the standard Roadway Aluminum Light Pole configurations shown on Index 17515 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 MLW.

5. Anchor Bolt Diameter: 1½"Ø (Load Case 1), 1 ⅝"Ø (Load Case 2). Anchor Bolts: ASTM A36 Grade A, Heavy-Hex. Washers: ASTM A196 Type 1. Anchor Plate: ASTM A709 (Grade 36) or ASTM A36.

6. For Conduit, Embedded Junction Boxes (EJB), Expansion/Deflection Fitting and Adjacent Reinforcing Steel Details, see Utility Conduit Detail Sheets.

7. Bolt Design:
   - Bolts: ASTM A325 (Grade 5), ASTM A490 (Grade 5), ASTM A325 (Grade 5), ASTM A490 (Grade 5), ASTM A490 (Grade 5), ASTM A490 (Grade 5), ASTM A325 (Grade 5), or ASTM A490 (Grade 5).
   - All Nuts, Bolts and Washers shall be galvanized by ASTM F2329.

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.

8. Anchor Bolts must be installed plumb.

9. 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 Pedestal, EJB, 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.

10. CONVENTIONAL REINFORCING STEEL BENDING DIAGRAMS

CONCRETE PEDESTAL QUANTITIES PER LIGHT POLE PEDESTAL

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Per Pedestal Thickness</td>
<td>CF/In.</td>
<td>0.040</td>
</tr>
<tr>
<td>Reinforcing Steel</td>
<td>LB</td>
<td>195 (182)</td>
</tr>
</tbody>
</table>

(Reinforcement Steel quantity shown in parenthesis is for a Pedestal attached to Pedestrian/Bicycle Railing - Index No. 820 with Bridge Deck or Approach Slab thinner than 1' - 1½", Add 59 lbs. for Bars 4J1 & 4J2 when Pedestal Thickness is greater than 1' - 5½'.

LIGHT POLE PEDESTAL

ANCHOR PLATE DETAIL

Light Pole Base Plate (Level)

Light Pole

Wire Screen (See Spec. 649-6)

Leveling Nut

Concrete Pedestal Surface, SLOPED Longitudinally with Profile Grade and Transversely with Cross Slope

Anchor Bolts (See Notes 4 & 5)

Bottom of Anchor Plate

ANCHOR PLATE DETAIL

DETAIL "A"

CROSS REFERENCE:

For Location of Detail "A" see Sheets 1 and 2.

BAR 4G

BARS 4F1, 4F2, 4F3, 4F4 & 4F5

BAR 4H

BARS 4J1 & 4J2

INDEX SHEET

FY 2016-17 DESIGN STANDARDS

INDEX NO. 21200 SHEET NO. 3 of 3

REVISION

07/01/15

DESCRIPTION:

3:10 PM

≤ 15

NOTES

6'-7" 40 Ft. 0.040 3

NO. REQD. Bars 4J2

LENGTH

45 Ft.

12 /21 /2015 07/01/15

REVISION

CROSS REFERENCE:

For Location of Detail "A" see Sheets 1 and 2.

BAR 4G

BARS 4F1, 4F2, 4F3, 4F4 & 4F5

BAR 4H

BARS 4J1 & 4J2

INDEX SHEET

FY 2016-17 DESIGN STANDARDS

INDEX NO. 21200 SHEET NO. 3 of 3

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