**EXTERNAL LIGHTING FOR SIGNS**

**SIGN LIGHTING INSTALLATION**

Roadway Lighting included in contract:
1. Power for the sign lighting provided from the roadway lighting circuit.
2. Indicate sign location and a pull box location for connection to the sign lighting circuit in the lighting plans.
3. Lighting contractor installs pull box and two 2' of lighting circuit conductors in the pull box for connection by the signing contractor.
4. Signing contractor furnishes and installs the luminaires, Nema 3R enclosure, 30 amp breaker, conduit, conductors and all other electrical equipment necessary for connection to the lighting circuit.

Roadway Lighting not included in contract:
1. Signing contractor provides all electrical equipment necessary for connection of the sign lights.
2. Signing plans indicate the location of the service point equipment and circuit runs.

**PLACEMENT OF SIGN LIGHTS**

1. This Index details a bottom luminaire support structure. For signs requiring top luminaire support structures, the detail can be reversed.
2. Luminaire spacing and arm length is shown on Guide Sign Worksheet.
3. The Guide Sign Worksheet indicates the sign luminaire used for the basis of design.

1. Signing plans include the pay item numbers to furnish and install conduit, conductors, ground rods, pull boxes and service point equipment.
2. Indicate sign location and a pull box location for connection to the sign lighting circuit in the lighting plans.
3. Lighting contractor installs pull box and two 2' of lighting circuit conductors in the pull box for connection by the signing contractor.
4. Signing contractor furnishes and installs the luminaires, Nema 3R enclosure, 30 amp breaker, conduit, conductors and all other electrical equipment necessary for connection to the lighting circuit.

**SIDE VIEW**

**BACK VIEW**
NOTES

1. Install hanger pipe to each vertical beam crossed with a 3/8"-bolt, lock washers and nuts. Cap both ends of the horizontal pipe.

2. Materials:
   A. Steel Pipe: ASTM A53 (Grade A or B)
   B. Steel Plate: ASTM A36
   C. Bolts: ASTM A307
   D. Hex Nuts: ASTM A563
   E. Washers: ASTM F436


4. All pipe dimensions are NPS.

5. See Note #5

1"-4" max. ~ Varies by luminaire type

2" Sch. 40 Steel Pipe (Luminaire Support Structure)

(See DETAIL 'A')

LUMINAIRE SUPPORT STRUCTURE

10'-0" Max.

10'-1" Max.

10'-4" Max.

6"-0" Max.

6"-0" Max.

7"-0" Min.

1'-0" Min.

4'-0" Min.

1'-4" Min.

8"-0" Min.

2" Sch. 40 Steel Pipe

1"-0" Min.

1'-0" Min.

1'-0" Min.

2'-0" Min.

2'-0" Min.

6" Sch. 40 Pipe Cap

20" Pipe Cap

20" Pipe Coupling

3" Sch. 40 Pipe

6"x1/2" Pipe

4"x4" Pipe

3/8" U-Bolt With Washers & Double Nuts (2 Bolts Req'd)

3/8" U-Bolt With Curved Washer & Elastic Nut

3/8" U-Bolt With Washers & Double Nuts (2 Bolts Req'd)

3/8" U-Bolt With Washer & Double Nut

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe

2" Sch. 40 Steel Pipe