**Street Lighting General Notes**

1. BRACKET ARMS SHALL BE TRUSS-STYLE TYPE AND SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

2. STREET LIGHT ASSEMBLIES SHALL BE POWDER COATED FLAT BLACK AND HAVE FLAT BLACK HOUSINGS. FINISHES SHALL BE PER SECTION 679.

3. LUMINAIRES

A. MOUNTING HEIGHT FOR LUMINAIRES SHALL BE 30 FEET UNLESS OTHERWISE SPECIFIED.

B, LUMINAIRES SHALL BE OF THE CREE GUIDEWAY SERIES ONLY AND NO SUBSTITUTIONS FOR LUMINAIRES SHALL BE ALLOWED.

 C. ALL LUMINAIRE HOUSINGS SHALL BE EQUIPPED WITH BIRD SPIKES.

4. ANCHOR BOLTS

 A. THE MAXIMUM DISTANCE BETWEEN THE TOP OF FOUNDATION AND BOTTOM OF BASE PLATE SHALL EQUAL THE NUT HEIGHT PLUS THE DIAMETER OF THE ANCHOR BOLT.

 B. GALVANIZED ANCHOR BOLTS WITH TWO HEXAGON NUTS AND TWO WASHERS PER BOLT SHALL BE FURNISHED WITH EACH POLE. ANCHOR BOLT PLATES, WHEN USED, SHALL ALSO BE GALVANIZED.

 C. AFTER INSTALLATION, A MINIMUM OF TWO THREADS ON THE TOP OF THE BOLT SHALL BE EXPOSED ABOVE THE NUT.

5. WIRING AND GROUNDING

A. CIRCUIT CONDUCTORS SHALL BE CLEARLY INDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY LIGHT POLE AND HANDHOLE.

B. ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUNDING CONDUCTOR.

C. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS.

D. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

6. STREET LIGHTING CONTROL DEVICE

A. STREET LIGHTING CONTROL DEVICE SHALL BE A PHOTOCELL MOUNTED ON THE SIDE OF THE POWER STANCHION, FACING NORTH.

B. STREET LIGHTING EQUIPMENT SHALL BE WIRED SUCH THAT ONE CONTROL DEVICE COMMANDS THE FUNCTIONS ASSOCIATED WITH POWERING UP AND DOWN ALL LUMINAIRES.

C. THE RELAY SHALL HAVE A TIME DELAY TO AVOID OPERATION DUE TO LIGHTNING AND TRANSIENT LIGHT.

D. IN THE EVENT OF FAILURE, THE RELAY SHALL FAIL SAFE, THAT IS, THE LIGHTS ARE LEFT ON IN THE EVENT OF ANY FAILURE IN THE ELECTRONIC CIRCUIT.

E. A LIGHTNING ARRESTER SHALL BE INCLUDED AS PART OF THE DEVICE.

7. SEE STANDARD DRAWINGS T-133 AND T-134 FOR ADDITIONAL INFORMATION.