SECTION 633 - FALSEWORK LIGHTING

633.01 Description. This section describes furnishing, installing, maintaining and removing temporary lighting under structure falsework.

633.02 Materials. Materials used in constructing falsework lighting shall conform to the following:

(A) Lampholder with high temperature, glazed porcelain, medium base socket, and UL-approved for outdoor use.

(B) 150-watt (minimum) lamps with medium base, incandescent-type parabolic aluminized reflector (PAR) bulbs for pavement and portal face illumination.

(C) 100-watt (minimum) lamps with medium base, incandescent-type PAR bulbs for pedestrian passageway illumination.

633.03 Construction. Provide fully adjustable lampholder with built-in junction box and wiring chamber. Attach conduits directly to lampholders. Protect lamps with wire guards.

Obtain power for falsework lighting. Provide generator(s) to operate falsework lighting in areas where utility company power service is not available.

Maintain and operate falsework lighting.

Provide lighting circuits with no less than two branch circuits. Provide portal floodlights and floodlights between portals with minimum one circuit. Provide each branch circuit with its own protective device. Provide lighting conductors within falsework limits in conduits.

Provide required materials and equipment for falsework lighting. Remove materials and equipment for falsework lighting when falsework is no longer needed.

(A) Roadway Pavement Illumination. Illuminate roadway pavement beneath or through falsework 24 hours per day or as ordered by Engineer.

Illuminate roadway pavement between entrance and exit portals by continuous row of floodlights. Install floodlights beneath falsework at intervals of not more than 15 feet on center. Install end floodlights within 7 feet of portal face.

Provide one row of lights for a single lane, two rows of lights for two to four lanes, and an additional row of lights for each lane over four.
Aim and adjust floodlights so that there is no glare to motorists and no dark areas.

(B) Pedestrian Walkway Illumination. Illuminate pedestrian walkways beneath or through falsework 24 hours per day or as ordered by Engineer.

Illuminate pedestrian walkways beneath or through falsework with floodlights centered over passageway at intervals of not more than 15 feet. Install end floodlights within 7 feet of portal face. Mount floodlights approximately 10 feet above walkway.

(C) Falsework Portal Face Illumination. Illuminate falsework portal faces 24 hours per day.

Illuminate falsework portal faces on side facing traffic. Mount floodlights over each vertical support next to traveled way and over center of each lane. Locate each floodlight approximately 16 feet above pavement and approximately 6 feet in front of portal face.

633.04 Measurement. The Engineer will not measure falsework lighting for payment.

633.05 Payment. The Engineer will not pay for falsework lighting separately and will consider the cost for falsework lighting as included in the contract prices for the various contract pay items under Section 503 - Concrete Structures. The cost is for the work prescribed in this section and the contract documents.

END OF SECTION 633