

## **DIVISION 16 - ELECTRICAL**

### **Section 16580 - Theatrical Lighting**

#### **Introduction**

Since theatrical lighting is a very specialized lighting system it should be left to be designed by experts in this field of lighting. On projects such as this it is required that the engineer responsible for this area of design be experienced in this type of design and should provide documentation in the form of past projects engineered which would back up his claim.

Documentation required on this type of design would be providing a minimum of two proposals for the type of design proposed. Each should include back up information such as type of equipment planned (including cut sheets), typical life expectancy of equipment (including bulbs and ballasts where applicable), and cost estimates for each type of lighting system.

Design should take into account the requirements of maintenance on the system and the reliability of the equipment. For this reason we would expect to have included in the design high quality equipment by the top manufacturer's of this type of equipment.

Theater design should include design calculations and computer printouts on a point to point basis. Cut sheets of intended products shall be provided at the design development phase.

The electrical consultant shall supervise the lighting design and seal the plans.

#### **Part 1 - General**

- Complete submittals of all equipment proposed should be provided.
- Maintenance and operational manuals should be provided (minimum of 4 sets) at completion of project.

#### **Part 2 - Products**

- All products should be the product of top quality manufacturers and should be designed for the purpose for which it is used.
- All products should be U.L. listed or certified.

#### **Part 3 - Execution**

- All equipment should be independently supported to a minimum of a 200% safety factor to the building structure.
- All equipment should be located such that it is accessible for maintenance or can be made available for maintenance through normally available methods.

#### **End of Section 16580**