

DESIGN ALERT ON RADIOGRAPHIC/FLUOROSCOPIC ROOMS CEILING LAYOUT COORDINATION

ISSUE:

Overhead equipment support, ceiling, and lighting coordination.

BACKGROUND:

On several projects, the A/Es either failed to show unistrut system or showed it incorrectly to support overhead equipment. This has caused considerable problems during construction.

DISCUSSION:

To illustrate this problem, on one project the A/E failed to show unistruts in these rooms. A change order was issued to provide the unistrut system. Unfortunately, the contractor, due to miscommunication, installed the struts in the wrong direction. This resulted in interference with the overhead lighting fixtures which could not be serviced. A completion item was issued to correct this situation, and lighting fixtures had to be changed. A somewhat similar problem occurred on another project where the unistruts were shown in the wrong direction and had to be revised by change order.

RECOMMENDATIONS/CONCLUSION:

1. During design the equipment location and the unistrut system must be coordinated with the lighting system. Although the equipment sizes/dimensions and weight can vary somewhat with the manufacturers. Ensure the A/E shows location of unistruts and their direction with respect to the lighting fixtures.

2. Resident Engineer must verify location of unistruts and coordinate with the equipment actually purchased before proceeding with the ceiling construction, lighting and installation of unistruts.

FOR ADDITIONAL INFORMATION:

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