SECTION 16472D - BRANCH CIRCUITS

BRANCH CIRCUITS: Voltage drop in branch circuits must be considered in design. Increase conductors a minimum of one size when branch circuit home runs exceed 75 feet.

A. LIGHTING CIRCUITS: Shall not be loaded to exceed 60 percent of panel breaker rating.

B. RECEPTACLE CIRCUITS: Not more than six general use duplex receptacles shall be on any one 20-ampere branch circuits. Duplex receptacles shall be rated 20 amperes.

C. BRANCH CIRCUIT PANELS: Panels for lighting, convenience outlets, small motors, and equipment shall be molded case circuit breaker type with thermal-magnetic trip and a-c and d-c ratings. Maximum number of poles in any panel shall not exceed 42. Provide for spare circuits totaling approximately 33 percent of the number of poles in use.

1. Breakers shall be 20-ampere, 1 pole breakers, mounted in the panel with bolted bus connections.
   a. Trip rating of breakers for lighting and general use convenience outlets shall be 20-ampere. Provide other sizes as required for special loads.

2. Sub-Feed Breakers: Panels shall not have sub-feed breakers. If multiple panels are supplied from a long feeder, use sub-feed lugs or separate splice box with full size tap to panel mains.

D. POWER PANELS shall be equipped with molded-case circuit breakers of adequate interrupting capacity, or shall be switch and fuse construction using time-delay fuses.

END