feeder/service conductor must be sized at 125 percent of the continuous load [215.2(A)(1) and 230.42].

▶ Sign Calculated Load Example

Question: *What is the feeder/service conductor calculated load for one electric sign?* Figure 11–17

(a) 1,200 VA (b) 1,500 VA (c) 1,920 VA (d) 2,400 VA

Answer: *(b) 1,500 VA*

Feeder/Service Calculated Load = 1,200 VA x 1.25
Feeder/Service Calculated Load = 1,500 VA

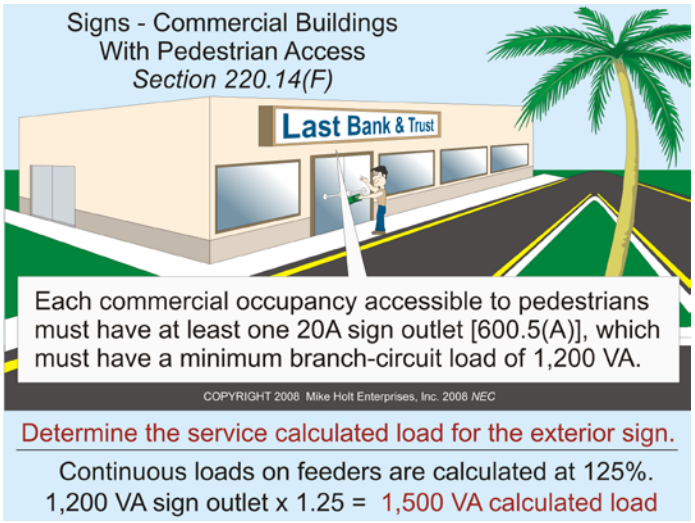

Figure 11–17

PART B—EXAMPLES

11.13 Bank/Office Building Example

Determine the feeder/service calculated load for an office building/bank with the loads listed in Figure 11–18.

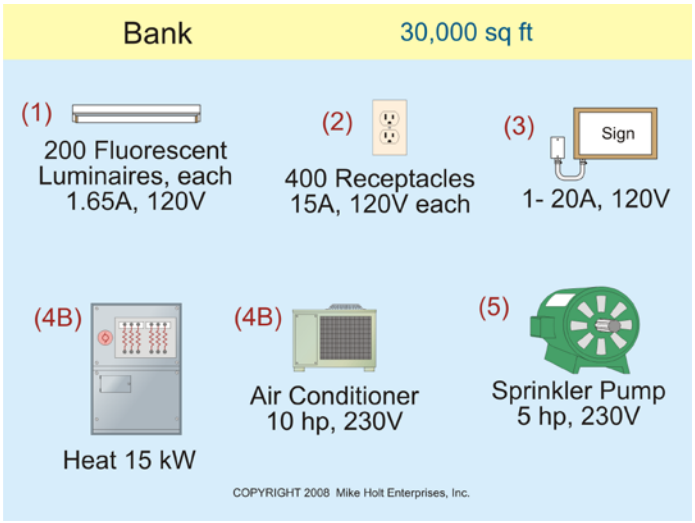

Figure 11–18

Determine the feeder/service calculated load:

Bold indicates neutral load. [215.2(A)(1) Ex 2].

Step 1a: Lighting [Table 220.12]
General Lighting = 30,000 sq ft x 3.50 VA
General Lighting = **105,000 VA**
General Lighting Calculated Load = 105,000 VA x 1.25 **131,250 VA**

Step 1b: Actual Lighting
Actual Lighting Connected Load = 200 units x 120V x 1.65A
Actual Lighting Connected Load = 39,600 VA
Actual Lighting Calculated Load = 39,600 VA x 1.25 49,500 VA (omit)