The industrial facility shown below is fed from a 34.5 kV source that has a fault capacity of 1155 A 3φ, 904 A 1φ. The design is based on a simple radial supply @ 34.5 kV. This steps down to 13.8 kV at Transformer C. The large motors are 4.16 kV, while the smaller motors are 480 V.

Plant Layout Drawing
SCALE: 1" = 100'

The motors are divided into two groups that will be fed from MCCs, resulting in the following one-line diagram.