200’ (ft) distance for trenching at 18” depth ( NEC Table 300.5 )

b)- a)-

From point a) to point b) = 210 ‘ ( ft ) , ¾ “ PVC electrical conduit .

1 set of three #10’s AWG , stranded … for 120 Volts Branch Circuit … 20 Amps . ( white , green and red ) . #10 AWG is good to carry 30 amps , but because of distance and preventing/preparing for high wattage lamps decided to install oversize wire to avoid Voltage Drop failures in the future .