

HIGH RESISTANCE GROUND CALCULATIONS

HRG-1 AND 5:

$$HRG: 1 = HRG: 5$$

$$R_1 = \frac{7967}{5}$$

$$R_1 = 1593.4 \, \Omega$$

$$a = \frac{7967}{120}$$

$$a = 66.39$$

$$R_2 = \frac{1593.2}{66.39^2}$$

$$R_2 = .396$$

HRG-2 AND 3:

$$HRG: 2 = HRG: 3$$

$$R_1 = \frac{277}{3}$$

$$R_1 = 92.3$$

$$a = \frac{277}{120}$$

$$a = 2.308$$

$$R_2 = \frac{92.3}{2.308^2}$$

$$R_2 = 17.33 \, \Omega$$