

### Slope Calculation Worksheet

Rise = the change in elevation between two points

Run = Horizontal distance between two points

To calculate percent slope:

$$\text{(Rise } \div \text{ Run) X 100}$$

Rise and run must have the same label – either both in feet or both in inches to calculate slope.

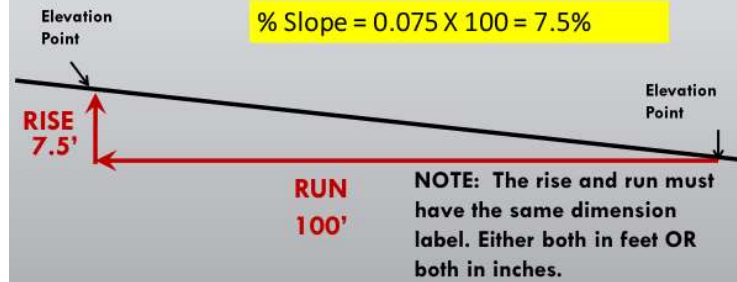
### Slope Calculations

- Slope =  $\frac{\text{RISE}}{\text{RUN}}$

$$\text{Slope} = 7.5' / 100' = 0.075$$

- Percent slope = Rise / Run X 100

$$\% \text{ Slope} = 0.075 \times 100 = 7.5\%$$



### Slope Calculations

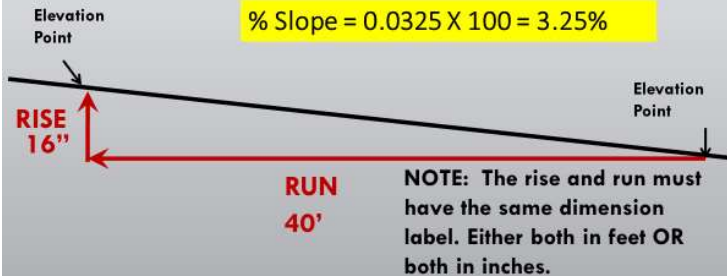
$$16'' = 1.3 \text{ feet}$$

- Slope =  $\frac{\text{RISE}}{\text{RUN}}$

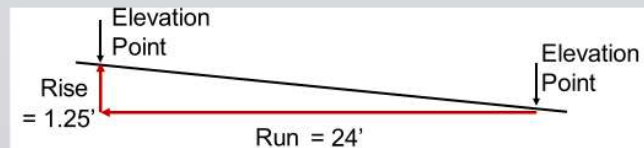
$$\text{Slope} = 1.3' / 40' = 0.0325$$

- Percent slope = Rise / Run X 100

$$\% \text{ Slope} = 0.0325 \times 100 = 3.25\%$$



### Calculating Slope



$$\text{Percent Slope} = \text{Rise } \div \text{ Run X 100}$$

$$1.25' \div 24' \times 100 = 5.2\%$$