



OHIO DEPARTMENT OF TRANSPORTATION
PLANNING & ENGINEERING DEPARTMENT, DISTRICT 4



Project **STA-77-2.57**

Desc Wall Drainage Panel Calculations

Calc By **JF** Date 8/30/23

Chk By _____ Date _____

PID/PROJ **116128**

Typical 1

Panel height = 14'

Panel Width = 18" = 1.5'

No. of Soil Nail Columns = 9

$$SA = 14 \times 1.5 \times 9 = 189 \text{ SF}$$

Typical 2/3

Panel height = 9'

Panel Width = ~~18"~~ 18" = 1.5'

No. of Soil Nail Columns = 50

$$SA = 9 \times 1.5 \times 50 = 675 \text{ SF}$$

$$\text{Total } SA = 189 + 675 = \boxed{864 \text{ SF}}$$