



Depth (m)	Pier 1 Soil Properties
0 - 3 [LIQ.]	$S_r=28.6\text{kPa}$ , $\varepsilon_{50}=0.56\%$ , $\phi=30^\circ$ , $\gamma_{\text{sat}}=17\text{kN/m}^3$ , $D_e=0.10$
3 - 5 [LIQ.]	$S_r=36.7\text{kPa}$ , $\varepsilon_{50}=0.055\%$ $\phi=31^\circ$ , $\gamma_{\text{sat}}=18\text{kN/m}^3$ , $D_e=0.17$
5 - 6 [SAND]	$\phi=31^\circ$ , $\gamma_{\text{sat}}=18\text{kN/m}^3$
6 - 12 [SAND]	$\phi=35^\circ$ , $\gamma_{\text{sat}}=18\text{kN/m}^3$
12 - 18 [SAND]	$\phi=36^\circ$ , $\gamma_{\text{sat}}=18\text{kN/m}^3$
18 - 24 [SAND]	$\phi=37^\circ$ , $\gamma_{\text{sat}}=19\text{kN/m}^3$
24 - 30 [CLAY]	$S_u=192\text{kPa}$ , $\varepsilon_{50}=0.32\%$ $\gamma_{\text{sat}}=20\text{kN/m}^3$
30 - 50 [SAND]	$\phi=39^\circ$ , $\gamma_{\text{sat}}=19\text{kN/m}^3$