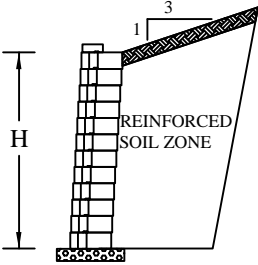
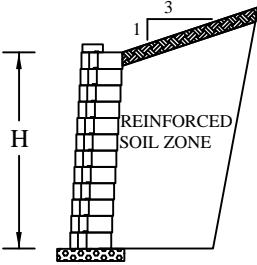
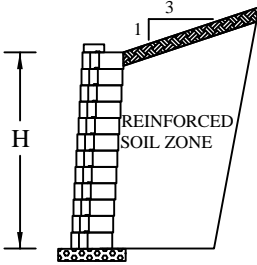
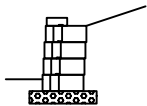
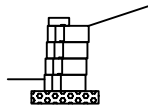
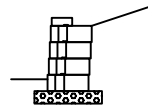
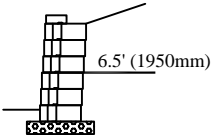
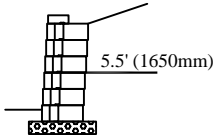
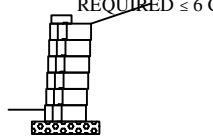
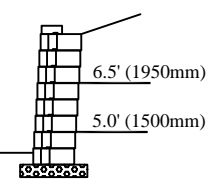
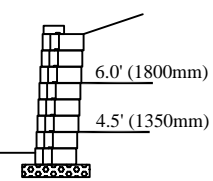
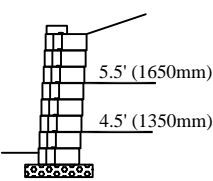
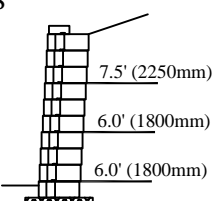
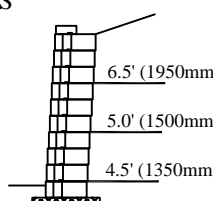
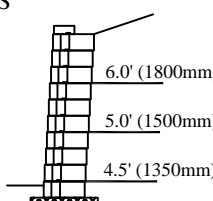
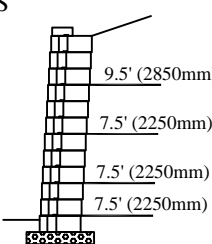
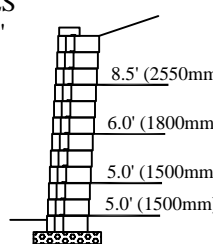
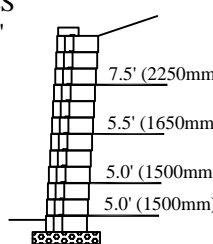
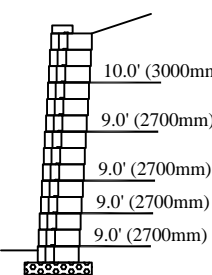
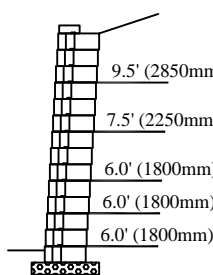
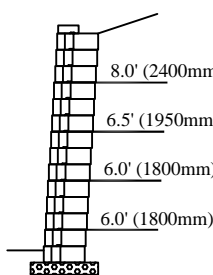


REINFORCEMENT ESTIMATING CHART

CLAY AND SILT SOIL	SILTY/CLAYEY SAND SOIL	CLEAN SAND AND GRAVEL SOIL
<p>H $\phi = 26^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)</p> 	<p>H $\phi = 30^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)</p> 	<p>H $\phi = 34^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)</p> 
<p>4 COURSES 2' 6" - 2' 8" (800mm)</p>  <p>NO REINFORCEMENT REQUIRED ≤ 4 COURSES</p>	<p>4 COURSES 2' 6" - 2' 8" (800mm)</p>  <p>NO REINFORCEMENT REQUIRED ≤ 4 COURSES</p>	<p>4 COURSES 2' 6" - 2' 8" (800mm)</p>  <p>NO REINFORCEMENT REQUIRED ≤ 4 COURSES</p>
<p>6 COURSES 3' 9" - 4' 0" (1200mm)</p>  <p>6.5' (1950mm)</p>	<p>6 COURSES 3' 9" - 4' 0" (1200mm)</p>  <p>5.5' (1650mm)</p>	<p>6 COURSES 3' 9" - 4' 0" (1200mm)</p>  <p>NO REINFORCEMENT REQUIRED ≤ 6 COURSES</p>
<p>8 COURSES 5' 0" - 5' 4" (1600mm)</p>  <p>6.5' (1950mm) 5.0' (1500mm)</p>	<p>8 COURSES 5' 0" - 5' 4" (1600mm)</p>  <p>6.0' (1800mm) 4.5' (1350mm)</p>	<p>8 COURSES 5' 0" - 5' 4" (1600mm)</p>  <p>5.5' (1650mm) 4.5' (1350mm)</p>
<p>10 COURSES 6' 3" - 6' 8" (2000mm)</p>  <p>7.5' (2250mm) 6.0' (1800mm) 6.0' (1800mm)</p>	<p>10 COURSES 6' 3" - 6' 8" (2000mm)</p>  <p>6.5' (1950mm) 5.0' (1500mm) 4.5' (1350mm)</p>	<p>10 COURSES 6' 3" - 6' 8" (2000mm)</p>  <p>6.0' (1800mm) 5.0' (1500mm) 4.5' (1350mm)</p>
<p>12 COURSES 7' 0" 6" - 8' 0" (2400mm)</p>  <p>9.5' (2850mm) 7.5' (2250mm) 7.5' (2250mm) 7.5' (2250mm)</p>	<p>12 COURSES 7' 0" 6" - 8' 0" (2400mm)</p>  <p>8.5' (2550mm) 6.0' (1800mm) 5.0' (1500mm) 5.0' (1500mm)</p>	<p>12 COURSES 7' 0" 6" - 8' 0" (2400mm)</p>  <p>7.5' (2250mm) 5.5' (1650mm) 5.0' (1500mm) 5.0' (1500mm)</p>
<p>14 COURSES 8' 9" - 9' 4" (2800mm)</p>  <p>10.0' (3000mm) 9.0' (2700mm) 9.0' (2700mm) 9.0' (2700mm) 9.0' (2700mm)</p>	<p>14 COURSES 8' 9" - 9' 4" (2800mm)</p>  <p>9.5' (2850mm) 7.5' (2250mm) 6.0' (1800mm) 6.0' (1800mm) 6.0' (1800mm)</p>	<p>14 COURSES 8' 9" - 9' 4" (2800mm)</p>  <p>8.0' (2400mm) 6.5' (1950mm) 6.0' (1800mm) 6.0' (1800mm)</p>