

$$H = A + K_0 \gamma_s (dw) + K_0 \gamma' (z - dw) = \text{Static lateral earth pressure below water table} \\ (z > dw) \text{ (Pw not included)}$$

- Units of pressure, psf
- Backfill of granular material compacted to 96% maximum dry density by ASTM D1557
- No heavy compaction equipment used within 5 ft of wall
- γ_s = saturated unit weight of granular backfill above water table, pcf
- γ' = submerged unit weight of granular backfill, pcf
- ϕ = 35 degrees = angle of internal friction of soil
- $K_0 = 1 - \sin(\phi)$ = At-rest earth pressure coefficient of soil
- Plane strain conditions (corner adjustment factors not included)
- Dynamic soil pressure not included

USCS Type	γ_s	γ'	K_0
GW	150	87.6	0.426
GP	142	79.6	0.426
SW	136	73.6	0.426

FIGURE 2.5.4-255b Rev 2