$$Cost\ of\ steel = \frac{A_s L}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(490\ \frac{\text{lb.}}{\text{ft.}^3}\right)\left(\frac{\$1{,}000}{ton}\right)\left(\frac{ton}{2{,}000\ \text{lb.}}\right)$$

$$Cost\ of\ cement = \frac{bhL}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(\frac{W_{cement}}{27\ ft.^3}\right)\left(\frac{\$150}{\text{ton}}\right)\left(\frac{\text{ton}}{2{,}000\ \text{lb.}}\right)$$

$$Cost\ of\ coarse\ aggregate = \frac{bhL}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(\frac{W_{CA}}{27\ ft.^3}\right)\left(\frac{\$25}{\text{ton}}\right)\left(\frac{\text{ton}}{2{,}000\ \text{lb.}}\right)$$

$$Cost\ of\ fine\ aggregate = \frac{bhL}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(\frac{W_{FA}}{27\ ft.^3}\right)\left(\frac{\$15}{\text{ton}}\right)\left(\frac{\text{ton}}{2{,}000\ \text{lb.}}\right)$$

$$W = \frac{bhL}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(\frac{145\text{lb.}}{\text{ft.}^3}\right) + \frac{A_s L}{1{,}728\ \text{in.}^3/\text{ft.}^3}\left(\frac{490\text{lb.-}145\text{lb.}}{\text{ft.}^3}\right)$$