

City Engineer Evaluation of Compacted Gravel Estimate

Based on the estimate it looks like a 2" rock section for the gravel but if it's to be paved, 3 inches would be better. We really don't need to look at it.

We've done some rough calcs based on the attached estimate. The total area is 7,500 sf. Based on the calculated area with the prices provided, I calculate the following unit prices.

Grading:

- Total cost: \$1,040
- Area: 7500 SF = 833 SY
- Unit Price: $\$1,040/833 \text{ SY} = \$1.25/\text{SY}$
- Seems very reasonable to me

Crushed Rock:

- Total cost: \$1,650
- Total Rock: 60 yds (assume CY) = 1620 CF
- $60 \text{ CY} * 1.85 \text{ T/CY} = 111 \text{ T}$
- Unit price (for material): $\$1,650/111 \text{ T} = \$14.86/\text{T}$
- Depth of rock: $60 \text{ CY} * 27 \text{ CF/CY} = 1620 \text{ CF}$
 - $1620 \text{ CF}/7500 \text{ SF} = 0.216 \text{ FT} \Rightarrow \sim 2.5'' \text{ rock}$
 - The depth of rock might be closer to 2", with the additional for filling potholes.

Compaction (typically included in unit price for rock):

- Total cost: $\$540 + \$1650 \text{ for rock} = \$2,190$
- Unit Price: $\$2,190/111\text{T} = \$19.73/\text{T}$
- Typical PW cost for CSBC (incl compaction): \$25-\$40/T

This cost seems reasonable to me.

I would estimate the cost for HMA as follows:

- Depth for parking lot: 2"
- $((7500 \text{ SF} * (2/12))/27)*2.055 = 95 \text{ T} \Rightarrow 100 \text{ T}$
- Cost $100\text{T} * \$150-\$200/\text{T} = \$15,000 - \$20,000$

Without a lot more information, this is my best guess. However, I think the cost is very reasonable, based on my calcs above.