

# Contract 2021-034

# Bulk Rock

Total Cost Analysis

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- ▶ Fixed Costs - included in Bid:
  - ▶ Product Cost: price of product per ton
  - ▶ Price per Loaded Mile: price per mile per ton of product
- ▶ Variables per load:
  - ▶ Distance from Quarry to Jobsite
  - ▶ Size (in tons) of load
- ▶ Other factors
  - ▶ Load size minimums
    - ▶ AA Quarry - 15 tons
    - ▶ Martin Marietta - 20 tons

# Total Cost Analysis

- ▶ Example: Load of  $\frac{3}{4}$ " clean gravel at a cost of \$12 per ton, load size of 25 tons, distance from quarry to jobsite is 15 miles, price per loaded mile is \$0.32
- ▶ Product Cost =  $(\$12 \text{ per ton})(25 \text{ tons}) = \$300$
- ▶ Haul Rate =  $(\$0.32 \text{ per loaded mile})(25 \text{ tons})(15 \text{ miles}) = \$120$
- ▶ Total Cost for a 25 ton load of  $\frac{3}{4}$ " clean gravel delivered to the jobsite is \$420

# Total Cost Analysis

Vendor	Product	Cost/ton	Cost/mile	Distance	15 Ton*	20 Ton	30 Ton
AA	3/4" clean gravel	\$12.50	\$0.35	19	\$287.25	\$383.00	\$574.50
MM	3/4" clean gravel	\$14.50	\$0.39	6.5	\$268.20	\$340.70	\$511.05
AA	Type V Base	\$9.75	\$0.35	19.8	\$250.20	\$333.60	\$500.40
MM	Type V Base	\$11.50	\$0.39	9.9	\$249.72	\$307.22	\$460.83

\*Calculation accounts for minimum load size requirements