

Engineer's Opinion of Probable Cost

 APPLE VALLEY CEMETERY
 APPLE VALLEY

 24-Feb-23
 NCW

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	MOBILIZATION	5%	LS	\$ 31,900.00	\$ 31,900.00
2	TRAFFIC CONTROL	1	LS	\$ 1,000.00	\$ 1,000.00
3	SWPP COMPLIANCE AND EROSION CONTROL	1	LS	\$ 2,500.00	\$ 2,500.00
4	DUST CONTROL & WATERING	1	LS	\$ 6,000.00	\$ 6,000.00
5	CLEARING, GRUBBING, EXCAVATION, DEMOLITION, & RESTORATION	1	LS	\$ 6,000.00	\$ 6,000.00
6	FINE SOIL GRADING	1	LS	\$ 15,000.00	\$ 15,000.00
7	SURVEY OF BURIAL MARKERS	1	LS	\$ 5,000.00	\$ 5,000.00
8	BURIAL SURVEY MARKERS	183	EA	\$ 250.00	\$ 45,703.13
9	8" TYPE II BASE COURSE ROAD	16,600	SF	\$ 2.00	\$ 33,200.00
10	2.5" ASPHALT PAVEMENT W/BASE	30,500	SF	\$ 5.00	\$ 152,500.00
11	FREE STANDING 4'-6' ROCK WALL	500	LF	\$ 100.00	\$ 50,000.00
12	ENTRANCE PERIMETER ROCK WALL AND GATE	750	LF	\$ 60.00	\$ 45,000.00
13	LANDSCAPE/RETAINING BOULDERS 2'-3'	60	EA	\$ 110.00	\$ 6,600.00
14	2" CAL TREE	32	EA	\$ 450.00	\$ 14,400.00
15	3" STONE MULCH	3,250	CY	\$ 75.00	\$ 243,750.20
16	IRRIGATION AREA	1,000	SF	\$ 6.50	\$ 6,500.00
17	1" SCH 40 PVC CONDUIT	1,700	LF	\$ 2.30	\$ 3,910.00
18	IRRIGATION CONTROLLER	1	EA	\$ 1,000.00	\$ 1,000.00
SUBTOTAL					\$ 670,000.00
CONTINGENCY				10%	\$ 67,000.00
CONSTRUCTION TOTAL					\$ 737,000.00
INCIDENTALS					
1	Engineering Design	6.8%	LS	\$ 58,400.00	\$ 58,400.00
2	Bidding & Negotiating	0.6%	HR	\$ 5,000.00	\$ 5,000.00
3	Engineering Construction Services	6.2%	HR	\$ 53,600.00	\$ 53,600.00
4	Topographic & Property Survey	0.6%	EST	\$ 5,000.00	\$ 5,000.00
5	Geotechnical Report	0.6%	EST	\$ 5,000.00	\$ 5,000.00
SUBTOTAL					\$ 127,000.00
TOTAL PROJECT COST					\$ 864,000.00

In providing opinions of probable construction cost, the Client understands that the Engineer has no control over costs or the price of labor, equipment or materials, or over the Contractor's method of pricing, and that the opinion of probable construction cost provided herein is made on the basis of the Engineer's qualifications and experience. The Engineer makes no warranty, expressed or implied, as to the accuracy of such opinions compared to bid or actual costs.

The engineering fees would be to create a standard set of plans to construct the Cemetery in a way that it could be bid out. This would include the following: site survey, geotechnical report, site plan, grading plan, demolition plan, utilities plan, landscape and irrigation plan, and details. The engineering also covers bidding the project and running the construction of the project. The town could elect to only do a site plan which would only include a site plan showing what similar to what is in the attached image. If you elect to go with only the site plan the price will be significantly less expensive for the design/engineering fees. The town could also elect to oversee the bidding and construction of the project which would in turn take off those estimated costs.

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 24-Feb-23
 NCW

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	LIGHTING, ELECTRICAL CONNECTIONS, CONDUITS, ETC...	1	LS	\$ 50,000.00	\$ 50,000.00
2	WATERING STATIONS	1	EA	\$ 1,200.00	\$ 1,200.00
3	COLUMBARIUM COUBLE SIDED (96 NICHES PER WALL SECTION)	1	1	\$ 11,000.00	\$ 11,000.00
4	6' SITE BENCHES	10	EA	\$ 2,800.00	\$ 28,000.00
5	LARGE LATTICE SHADE STRUCTURES	1	EA	\$ 28,000.00	\$ 28,000.00
SUBTOTAL					\$ 118,200.00
				CONTINGENCY	10%
CONSTRUCTION TOTAL					\$ 130,020.00
INCIDENTALS					
1	Landscape Architech Concept Plan		LS	\$ 10,000.00	\$ 10,000.00
2	Electrical Engineering Design		LS	\$ 6,000.00	\$ 6,000.00
SUBTOTAL					\$ 16,000.00
TOTAL PROJECT COST					\$ 146,020.00

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Engineer's Opinion of Probable Cost

 APPLE VALLEY CEMETERY
 APPLE VALLEY

 9-Mar-23
 NCW

NO.	DESCRIPTION	EST. QTY	UNIT	UNIT PRICE	AMOUNT
GENERAL CONSTRUCTION					
1	MOBILIZATION	5%	LS	\$ 10,900.00	\$ 10,900.00
2	TRAFFIC CONTROL	1	LS	\$ 1,000.00	\$ 1,000.00
3	SWPP COMPLIANCE AND EROSION CONTROL	1	LS	\$ 1,000.00	\$ 1,000.00
4	DUST CONTROL & WATERING	1	LS	\$ 2,000.00	\$ 2,000.00
5	CLEARING, GRUBBING, EXCAVATION, DEMOLITION, & RESTORATION	1	LS	\$ 2,500.00	\$ 2,500.00
6	FINE SOIL GRADING	1	LS	\$ 7,000.00	\$ 7,000.00
7	SURVEY OF BURIAL MARKERS	1	LS	\$ 2,000.00	\$ 2,000.00
8	BURIAL SURVEY MARKERS	48	EA	\$ 100.00	\$ 4,812.50
9	8" TYPE II BASE COURSE ROAD	16,600	SF	\$ 2.00	\$ 33,200.00
10	2.5" ASPHALT PAVEMENT W/BASE	8,710	SF	\$ 5.00	\$ 43,550.00
11	CHAIN LINK FENCING	380	LF	\$ 40.00	\$ 15,200.00
12	CEMETERY SIGN	1	LS	\$ 10,000.00	\$ 10,000.00
13	LANDSCAPE/RETAINING BOULDERS 2'-3'	60	EA	\$ 110.00	\$ 6,600.00
14	2" CAL TREE	12	EA	\$ 450.00	\$ 5,400.00
15	3" STONE MULCH	856	CY	\$ 75.00	\$ 64,166.72
16	IRRIGATION AREA	2,500	SF	\$ 6.50	\$ 16,250.00
17	1" SCH 40 PVC CONDUIT	1,200	LF	\$ 2.30	\$ 2,760.00
18	IRRIGATION CONTROLLER	1	EA	\$ 1,000.00	\$ 1,000.00
SUBTOTAL					\$ 229,400.00
				CONTINGENCY 10%	\$ 22,940.00
CONSTRUCTION TOTAL					\$ 252,340.00
INCIDENTALS					
1	Engineering Design	8.0%	LS	\$ 24,700.00	\$ 24,700.00
2	Bidding & Negotiating	1.6%	HR	\$ 5,000.00	\$ 5,000.00
3	Engineering Construction Services	5.9%	HR	\$ 18,400.00	\$ 18,400.00
4	Topographic & Property Survey	1.6%	EST	\$ 5,000.00	\$ 5,000.00
5	Geotechnical Report	1.6%	EST	\$ 5,000.00	\$ 5,000.00
SUBTOTAL					\$ 58,100.00
TOTAL PROJECT COST					\$ 310,440.00

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Engineering fees would be to create a standard set of plans to construct the Cemetery in a way that it could be bid out. This would include the following: site survey, geotechnical report, site plan, grading plan, demolition plan, utilities plan, landscape and irrigation plan, and details. The engineering also covers bidding the project and running the construction of the project. The town could elect to only do a site plan which would only include a site plan showing what similar to what is in the attached image. If you elect to go with only the site plan the price will be significantly less expensive for the design/ engineering fees. The town could also elect to oversee the bidding and construction of the project which would in turn take off those estimated costs. This is the cost estimate for the O,P,I,J,H sections with Sunrise Circle paved, red-lined pavement inside the circle (see attached), plus the front bushes, rocks, and gates, south fence line, and a sign.

CEMETERY BUILD ANALYSIS

OVERALL CONSTRUCTION COSTS

Revenue: 1724 Lots @ \$600	1,010,020
*Construction Costs	<u>1,034,400</u>
Reserve	<u>\$ 24,380</u>

PHASE I Only

Revenue: Section I, J, H, O, P (431 Plots)	310,440
*Construction Costs	<u>258,600</u>
Reserve	<u>\$ 51,840</u>

*We should be able to decrease these costs by electing to do a site plan and to have the town oversee the bidding and construction of the project. We also do not need to have a columbarium right away, or a landscape architect plan. The removal or decrease of these fees and others would significantly reduce the construction cost of the cemetery.

COSTS TO MAINTAIN (Based on Resident Fees)

Perpetual Care Fee (1724 Plots)	517,200
Open/Close Grave (\$500)	862,000
Revenue Subtotal	<u>\$ 1,379,200</u>
Sexton Costs (other than weekly wages)	
Open/Close Grave -Paid per incident. 40% of the fee will go to sexton	344,800
Admin Costs (other than weekly wages)	
1.5 hrs @ \$20	51,720
Equipment Costs	
Based on 2 hrs/grave (going rate (\$40/hr)	137,920
Expenditures Subtotal	<u>\$ 534,440</u>
REMAINING FUNDS FOR WAGES/MAINTENANCE	<u>\$ 844,760</u>

Maintenance Costs (Annual)

Sexton: 3 Hrs/week @ \$20/hr	60
Admin: 1 Hr/week @ \$20	20
Maintenance will be minimal due to xeriscaping.	50
ANNUAL MAINTENANCE COSTS	<u>\$ 6,760</u>
ESTIMATED PERPETUAL YEARS	125