

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, November 29, 2023

Village of Kronenwetter - Sedona Ct., Pinedale Lane, Windwood Road, Oakdale Lane, & Wedgewood Dr. (PHASE 1 - Misc Streets)



OVERALL PROJECT

STREET RECONSTRUCTION & DRAINAGE INFRASTRUCTURE

	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs						
	a	Comprehensive Mapping & Surveying To-Date	----	---	----	----
	b	Planning, Coordination, Engineering & Administration To-Date	----	---	----	----
	c	Legal Services To-Date	----	---	----	----
	d	Title Services To-Date	----	---	----	----
	e	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	T1	Subtotal Project Development Costs				\$0
Roadway Construction Costs						
	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$10,000.00	\$10,000
	2	Unclassified excavation for Roadway	8,100	CY	\$15.00	\$121,500
	3	Remove Asphalt Pavement, Main Roadway	23,223	SY	\$5.00	\$116,115
	4	Remove Asphalt Pavement, Side streets & Driveways	160	SY	\$5.00	\$800
	5	Remove existing culverts	5	EA	\$500.00	\$2,500
	6	Sawcut Asphalt Pavement	890	LF	\$1.50	\$1,335
	7	Topsoil removal	4,000	SY	\$2.50	\$10,000
	8	Unclassified Excavation for Driveways	328	CY	\$10.00	\$3,280
	9	Medium Rip Rap over Fabric for Storm Sewer Endwalls	150	CY	\$75.00	\$11,250
	10	3/4" Crushed Aggregate for Driveway as Needed	328	CY	\$50.00	\$16,400
	11	18" Breaker Run	8847	CY	\$15.00	\$132,705
	12	Geogrid	23223	SY	\$3.00	\$69,669
	13	Open Graded Drainage Layer (Assume 50%)	8000	SY	\$20.00	\$160,000
	14	1.5" Crushed Aggregate Base Course, 8" Compacted-Road & Intersections	23223	SY	\$8.00	\$185,784
	15	HMA Asphalt Pavement 2" Surface Course-Intersections	23223	SY	\$15.00	\$348,345
	16	HMA Asphalt Pavement 2" Binder Course-Intersections	23223	SY	\$12.00	\$278,676
	17	Hot Tar Butt Joint Sealer	1440	LF	\$5.00	\$7,200
	18	3/4" Crushed Aggregate for Road Shoulder, 2' wide x 6" thick	737	CY	\$50.00	\$36,850
	19	HMA Asphalt-2" for path & driveways	986	SY	\$20.00	\$19,720
	20	Topsoil, Seed & E-Mat all Disturbed areas,	11100	SY	\$2.75	\$30,525
	21	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	40	EA	\$4,500.00	\$180,000
	22	Electrical in Conduit for Street Lights	40	LS	\$ 1,500.00	\$60,000
	23	Install 12" CMP & endwalls - Avg 40 LF	5	EA	\$ 1,500.00	\$7,500
	24	Traffic Control	1	LS	\$ 2,000.00	\$2,000
	25	Reset Valve lids & Manhole Covers	1	LS	\$ 5,000.00	\$5,000
	T2	SubTotal Road Construction & Utility Costs				\$1,800,000
Percentage Allocations On Construction Subtotal						
	A1	Performance & Payment bonds	2	%	----	\$36,000
	A2	Mobilization/Demobilization	3	%	----	\$54,000

A3	Funding Requirements	0.5	%	----	\$9,000
A4	Construction Contingencies	20	%	----	\$360,000
A5	Geotechnical	1	%	----	\$18,000
A6	Engineering, Permitting, Coordination, Construction Admin.	4	%	----	\$72,000
A7	Surveying (Staking) & Legal	2	%	----	\$36,000
T3	Subtotal on Construction Allocations				\$600,000
T4	TOTAL PROJECT SUBTOTAL				\$2,400,000