

ENGINEER'S PRELIMINARY COST ESTIMATE
Wednesday, July 31, 2024
Village of Kronenwetter - Lift Station 8 Upgrade Project



OVERALL PROJECT - Lift Station, Forcemain, Power, Generato

Construction Costs	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$2,500.00	\$2,500
	2	Unclassified Excavation-Non Paved Areas	110	CY	\$15.00	\$1,650
	3	Remove Asphalt Pavement	32	SY	\$4.00	\$128
	4	Sawcut Asphalt Pavement	30	LF	\$1.50	\$45
	5	Topsoil removal	14,570	SY	\$2.00	\$29,140
	6	8 ft dia mh w/lid & base only	1	LS	\$28,000.00	\$28,000
	7	Wet well liftstation Complete	1	LS	\$175,000.00	\$175,000
	8	Excavation, installation wetwell, dewatering	1	LS	\$190,000.00	\$190,000
	9	Granular backfill/ liftstation & MH's	100	CY	\$50.00	\$5,000
	10	Generator - 40 KW for 15 Hp Pump	1	EA	\$40,000.00	\$40,000
	11	Generator Electrician & Controls - Complete	1	LS	\$20,000.00	\$20,000
	12	Abandon ex. Ls/ electrical complete	1	LS	\$10,000.00	\$10,000
	13	Abandon existing Structure & Pad	1	LS	\$5,000.00	\$5,000
	14	3/4" Crushed Aggregate for roadway, 8" thick	32	SY	\$15.00	\$480
	15	18" Breaker Run for Roadway	32	SY	\$18.00	\$576
	16	HMA Asphalt Pavement 2" Surface Course	32	SY	\$22.00	\$704
	17	HMA Asphalt Pavement 2" Binder Course	32	SY	\$20.00	\$640
	18	Hot Tar Butt Joint Sealer	14	LF	\$2.00	\$28
	19	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	5	CY	\$50.00	\$250
	19	Concrete gen pad/ Elec pad	7	CY	\$300.00	\$2,100
	20	Gas Meter stand	1	EA	\$250.00	\$250
	21	Topsoil, Seed & E-Mat all Disturbed areas,	15000	SY	\$2.00	\$30,000
	22	Install Base, Pole, & Fixture for Street Lights (Light Type Assumed)	1	EA	\$4,500.00	\$4,500
	23	Electrical in Conduit for Street Lights	1	LS	\$1,500.00	\$1,500
	24	12" D.I san sewer	18	LF	\$50.00	\$900
	25	12" PVC SDR 21 type	49	LF	\$50.00	\$2,450
	26	8" FM C900 DR18 pipe (includes pipe in boring)	16649	LF	\$30.00	\$499,470
	27	8" FM Trench excavation/backfill,	16391	LF	\$15.00	\$245,865
	28	20-21" steel casing bore under I-39	258	LF	\$150.00	\$38,700
	29	Air release valve & manhole Complete	1	EA	\$8,000.00	\$8,000
	30	Driveway 18' x 25' for Air mh site, Complete (grading,fill,wisdot fence,&Gravel)	1	LS	\$4,000.00	\$4,000
	31	Insulation (4x8x2") over fm marked area, all culverts	1,800	LF	\$4.00	\$7,200
	32	Relocate hydrant	1	LS	\$750.00	\$750
	33	Pavement marking at Kowalski Rd	120	LF	\$5.00	\$600
	34	3-Phase Power Extension and Setup	1	LS	\$60,000.00	\$60,000
	35	Connect new 8" fm into existing mh, core opening.	1	LS	\$2,500.00	\$2,500
	36	Abandon existing Structure & pads	1	LS	\$5,000.00	\$5,000
	37	Connect Existing Sewers	2	Ea	\$1,000.00	\$2,000
	38	Gas allowance	1	LS	\$15,000.00	\$15,000
	39	Internet allowance	1	LS	\$5,000.00	\$5,000
	40	Cleanout Manholes for FM Pigging	4	LS	\$5,000.00	\$20,000
	41	WisDOT Fence Removal, Install(if needed)	50	LF	\$50.00	\$2,500
T2 SubTotal Road Construction & Utility Costs						\$1,467,426
Option T3 - Open cut Kowalski Rd crossing					\$45,526	\$1,512,952
Base Bid T4 - Direction Bore Kowalski Rd Crossing					\$35,973	\$1,503,399
Percentage Allocations On Construction Subtotal	A1	Performance & Payment bonds	2	%	----	\$31,300
	A2	Mobilization/Demobilization	3	%	----	\$46,900
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	10	%	----	\$156,300
	A5	Geotechnical	0	%	----	\$0
	A6	Constr. Engineering, Permitting, Coordination, Construction Admin. Going Forward	4	%	----	\$62,600
	A7	Surveying (Staking) & Lega	2	%	----	\$31,300
T5 Subtotal on Construction Allocations (does not include Options costs)						\$328,400
T6 TOTAL PROJECT SUBTOTAL (includes Base bid T4)						\$1,900,000

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, July 31, 2024

Village of Kronenwetter - Kronenwetter Dr. Rehabilitation South (TID 2 Portion)

Approx. 8,836 LF Road,

OVERALL PROJECT

STREET REHABILITATION



	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs	a	Comprehensive Mapping & Surveying	----	---	----	\$39,000
	b	Planning, Coordination, Engineering & Administration	----	---	----	\$114,000
	c	Legal Services To-Date	----	---	----	----
	d	Title Services To-Date	----	---	----	----
	e	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	T1	Subtotal Project Development Costs				\$153,000
Roadway Construction Costs	1	Erosion Control Items & Maintenance During Construction	1	Lump Sum	\$10,000.00	\$10,000
	2	Unclassified excavation for Roadway	12,400	SY	\$5.00	\$62,000
	3	Remove Asphalt Pavement, Roadway STA 0+00 TO 36+13.5, intersections	12,400	SY	\$3.00	\$37,200
	4	Pulverize pavement Roadway STA 38+61.60 TO 50+09.36	3,977	SY	\$1.00	\$3,977
	5	Crack Fill & Seal Coat Pavement, Main Roadway STA 50+09.36 to 62+36.00	4,689	SY	\$2.50	\$11,723
	6	Mill 2" off Roadway STA 64+23.00 to 90+22.28	10,725	SY	\$3.00	\$32,175
	7	Remove Asphalt Pavement, Side streets & Driveways	220	SY	\$5.00	\$1,100
	8	Remove Concrete Driveway	165	SY	\$7.00	\$1,155
	9	Repair Culvert Endwalls	9	EA	\$500.00	\$4,500
	10	Sawcut Asphalt Pavement	405	LF	\$1.50	\$608
	11	Topsoil removal	4,000	SY	\$2.50	\$10,000
	12	Unclassified Excavation for Driveways	115	CY	\$10.00	\$1,150
	13	Remove beam guard, Re-install	1	LS	\$5,000.00	\$5,000
	14	Medium Rip Rap over Fabric for Storm Sewer Endwalls	150	CY	\$75.00	\$11,250
	15	3/4" Crushed Aggregate for Driveway as Needed	100	CY	\$50.00	\$5,000
	16	12" Breaker Run	4,200	CY	\$15.00	\$63,000
	17	Geogrid	13750	SY	\$3.00	\$41,250
	18	Open Graded Drainage Layer (Assume 50%)	12,400	SY	\$20.00	\$248,000
	19	6" Crushed Aggregate Base Course, Compacted-Road & Intersections	12,400	SY	\$8.00	\$99,200
	20	HMA Asphalt Pavement 1.75" Surface Course-Intersections	12,400	SY	\$12.00	\$148,800
	21	HMA Asphalt Pavement 1.75" Binder Course-Intersections	12,400	SY	\$12.00	\$148,800
	22	HMA 1.75" Asphalt Pavement Surface over Pulverized	3,977	SY	\$12.00	\$47,724
	23	HMA 1.75" Asphalt Pavement Binder over Pulverized	3,977	SY	\$12.00	\$47,724
	24	HMA Asphalt Pavement 3" over mill	10,725	SY	\$16.00	\$171,600
	25	Hot Tar Butt Joint Sealer	330	LF	\$5.00	\$1,650
	26	3/4" Crushed Aggregate for Road Shoulder, 2' wide x 6" thick	500	CY	\$50.00	\$25,000
	27	6" Concrete Driveway	165	SY	\$25.00	\$4,125
	28	6" Concrete Bridge Approaches	120	SY	\$50.00	\$6,000
	29	HMA Asphalt-2" for path & driveways	220	SY	\$20.00	\$4,400
	30	Topsoil, Seed & E-Mat all Disturbed areas,	8000	SY	\$2.75	\$22,000
	31	Street Lights, Upgrades or Rehabilitations	20	LS	\$7,500.00	\$150,000
	32	Various Electrical in Conduit for Street Lights	20	LS	\$ 1,000.00	\$20,000
	33	Cut in Ditch excavation	1000	LF	\$ 5.00	\$5,000
	34	Traffic Control	1	LS	\$ 2,000.00	\$2,000
	35	Reset Valve lids & Manhole Covers	1	LS	\$ 5,000.00	\$5,000
	T2	SubTotal Road Construction & Utility Costs				\$1,500,000
Percentage Allocations On Construction Subtotal	A1	Performance & Payment bonds	2	%	----	\$30,000
	A2	Mobilization/Demobilization	3	%	----	\$45,000
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	5	%	----	\$75,000
	A5	Geotechnical	0	%	----	\$0
	A6	Construction Engineering, Admin. Construction Admin.	3	%	----	\$45,000
	A7	Surveying (Staking) & Legal	3	%	----	\$45,000
	T3	Subtotal on Construction Allocations				\$300,000
	T4	TOTAL PROJECT SUBTOTAL				\$2,000,000

ENGINEER'S PRELIMINARY COST ESTIMATE

Wednesday, July 31, 2024

Village of Kronenwetter - Sedona Ct., Pinedale Lane, Windwood Road, Oakdale Lane, & Wedgewood Dr.

22' wide pavement

OVERALL PROJECT

STREET REHABILITATION



	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs	a	Comprehensive Mapping & Surveying (See Kronenwetter Drive)	----	---	----	\$14,500
	b	Planning, Coordination, Engineering & Administration (See Kronenwetter Drive)	----	---	----	\$57,000
	c	Legal Services To-Date	----	---	----	----
	d	Title Services To-Date	----	---	----	----
	e	Land Acquisition (Prof. Fees & Land Rights) Estimate	----	---	----	----
	T1	Subtotal Project Development Costs				\$72,000
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 (50%)	4423.5	CY	\$15.00	\$66,353
	12	Geogrid (50%)	11611.5	SY	\$3.00	\$34,835
	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				\$1,700,000
Percentage Allocations On Construction Subtotal	A1	Performance & Payment bonds	2	%	----	\$34,000
	A2	Mobilization/Demobilization	3	%	----	\$51,000
	A3	Funding Requirements	0.0	%	----	\$0
	A4	Construction Contingencies	5	%	----	\$85,000
	A5	Geotechnical	0	%	----	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin.	3	%	----	\$51,000
	A7	Surveying (Staking) & Legal	3	%	----	\$51,000
	T3	Subtotal on Construction Allocations				\$300,000
	T4	TOTAL PROJECT SUBTOTAL				\$2,100,000