

ENGINEER'S PRELIMINARY COST ESTIMATE
Wednesday, January 31, 2024
Village of Kronenwetter - Lift Station 8 & 4 Project



OVERALL PROJECT - Lift Station, Forcemain, Power, Generator, Interceptor

	#	Item	Item Quantity	Units	Unit Cost	Total Cost
Project Development Costs	a	Comprehensive Mapping & Surveying To-Date	---	---	---	---
	b	Planning, Coordination, Engineering & Administration To-Date	---	---	---	\$40,000
	c	Legal Services To-Date	---	---	---	---
	d	Title Services To-Date	---	---	---	---
	e	TID Update or Amendment Services (Confirm)	---	---	---	\$10,000
	f	Land Acquisition (Prof. Fees & Land Rights) Estimate	---	---	---	---
T1	Subtotal Project Development Costs					\$50,000

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, Driveway	360	SY	\$5.00	\$1,800
	4	Sawcut Asphalt Pavement	23	LF	\$1.50	\$35
	5	Topsoil removal	415	SY	\$2.50	\$1,038
	6	8 ft dia mh w/lid & base	1	LS	\$40,000.00	\$40,000
	7	8 ft wet well liftstation Complete	1	LS	\$170,000.00	\$170,000
	8	Excavation, installation, dewatering	1	LS	\$190,000.00	\$190,000
	9	Granular backfill/ liftstation & MH's	350	CY	\$25.00	\$8,750
	10	Generator - 60 KW	1	EA	\$50,000.00	\$50,000
	11	Electrician & Controls - Complete	1	LS	\$25,000.00	\$25,000
	12	Abandon ex. Ls/ electrical complete	1	LS	\$20,000.00	\$20,000
	13	Abandon existing Structure & Pad	1	LS	\$5,000.00	\$5,000
	14	3/4" Crushed Aggregate for roadway, 8" thick	3300	SY	\$10.00	\$33,000
	15	18" Breaker Run for Roadway	3300	SY	\$15.00	\$49,500
	16	HMA Asphalt Pavement 2" Surface Course - Interceptor	3300	SY	\$22.00	\$72,600
	17	HMA Asphalt Pavement 2" Binder Course-Interceptor	3300	SY	\$18.00	\$59,400
	18	Hot Tar Butt Joint Sealer	23	LF	\$5.00	\$115
	19	3/4" Crushed Aggregate for Drive Shoulder, 2' wide x 6" thick	11	CY	\$50.00	\$550
	20	Concrete gen pad/ Elec pad	7	CY	\$300.00	\$2,100
	21	Topsoil, Seed & E-Mat all Disturbed areas,	502	SY	\$4.00	\$2,008
	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	4 ft dia mh w/r-1550 casting	1	EA	\$ 5,000.00	\$5,000
	25	12" D.I san sewer	16	LF	\$ 50.00	\$800
	26	12" PVC SDR 21 type	83	LF	\$ 50.00	\$4,150
	27	6" FM D.I. pipe	15	LF	\$ 30.00	\$450
	28	6" FM PE pipe	71	LF	\$ 25.00	\$1,775
	29	6" MJ 45 Deg Bends	2	Ea	\$ 1,500.00	\$3,000
	30	6" Flow meter w/manhole	1	LS	\$ 2,500.00	\$2,500
	31	6" MJ 90 Deg Bend	1	Ea	\$ 1,900.00	\$1,900
	32	Connect to new 6" FM	1	LS	\$ 500.00	\$500
	33	6" FM PE Pipe Bursting, Pipe only	3693	LF	\$ 12.00	\$44,316
	34	Pipe Bursting 4" to 6"	3693	LF	\$ 30.00	\$110,790
	35	3-Phase Power Extension and Setup	1	LS	\$ 60,000.00	\$60,000
	36	4' Dia mh special with sump, air release , and piping within mh,	1	LS	\$ 7,500.00	\$7,500
	37	Connect new 6" into existing mh, core larger opening.	1	LS	\$ 2,500.00	\$2,500
	38	Abandon existing Structure & pads	1	LS	\$ 5,000.00	\$5,000
	39	8" PVC SDR 26 - Reconnect	80	LF	\$ 35.00	\$2,800
	40	12" PVC SDR 21-Interceptor	2110	LF	\$ 50.00	\$105,500
	41	4' DIA MH W/Casting	9	EA	\$ 5,000.00	\$45,000
	42	Boring interstate W/ 24" Casing Pipe	285	LF	\$ 150.00	\$42,750
	43	Boring under hwy & Railroad tracks W/ 24" Casing Pipe	325	LF	\$ 120.00	\$39,000
	44	Connect Existing Sewers	6	Ea	\$ 500.00	\$3,000
	45	Gas allowance	1	LS	\$ 20,000.00	\$20,000
	46	Internet allowance	1	LS	\$ 10,000.00	\$10,000
	47	WisDOT Fence Removal, Install	50	LF	\$ 50.00	\$2,500
T2	SubTotal Road Construction & Utility Costs					\$1,261,776

Percentage Allocations On Construction Subtotal	A1	Performance & Payment bonds	2	%	---	\$26,300
	A2	Mobilization/Demobilization	3	%	---	\$39,400
	A3	Funding Requirements	0.0	%	---	\$0
	A4	Construction Contingencies	10	%	---	\$131,200
	A5	Geotechnical	0	%	---	\$0
	A6	Engineering, Permitting, Coordination, Construction Admin. Going Forward	4	%	---	\$52,500
	A7	Surveying (Staking) & Legal	2	%	---	\$26,300

T3 Subtotal on Construction Allocations \$275,700

T4 TOTAL PROJECT SUBTOTAL \$1,587,476