

**CITY OF CROSSVILLE  
 WWTP UPGRADE AND COLLECTION SYSTEM REHABILITATION PROJECT  
 ESTIMATED CONSTRUCTION COSTS**

**WASTEWATER TREATMENT PLANT UPGRADE**

Item No.	Description	Qty	Unit	Unit Price	Total
	Prepare Aeration Basin and Install				
1	Walls	2	LS	\$75,000	\$150,000
2	Replace Existing Influent Valves	1	LS	\$80,000	\$80,000
3	Mixers in Aeration Basin	3	LS	\$50,000	\$150,000
4	Site Piping	1	LS	\$100,000	\$100,000
5	Site Electrical	1	LS	\$60,000	\$60,000
6	Re-Build Belt Press's	2	LS	\$20,000	\$40,000
7	Contingency - All Phases	1	LS	\$70,000	\$70,000
<b>TOTAL CONSTRUCTION FOR WASTEWATER PLANT UPGRADE</b>					<b>\$ 650,000</b>

**COLLECTION SYSTEM REHABILITATION**

**Harper Lane Trunk to Miller Ave**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Pipe Bursting Existing Line	4,800	LF	\$ 48.00	\$ 230,400
2	8" CIPP Lining of Sewer Lines		LF	\$ 35.00	\$ -
3	Point Repair of Sewer Line	2	EA	\$ 2,400.00	\$ 4,800
4	Manhole Replacement	21	EA	\$ 4,000.00	\$ 84,000
5	Manhole Rehabilitation		EA	\$ 1,200.00	\$ -
6	Service Connection	10	EA	\$ 1,500.00	\$ 15,000
	Contingency	1	LS	\$ 17,800.00	\$ 17,800
	Subtotal Construction				<b>\$ 352,000</b>

**Frog Hollow - (10th to 4th)**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Pipe Bursting Existing Line	1,675	LF	\$ 48.00	\$ 80,400
2	8" CIPP Lining of Sewer Lines		LF	\$ 35.00	\$ -
3	Point Repair of Sewer Line	1	EA	\$ 2,400.00	\$ 2,400
4	Manhole Replacement	13	EA	\$ 4,000.00	\$ 52,000
5	Manhole Rehabilitation		EA	\$ 1,200.00	\$ -
6	Service Connection	10	EA	\$ 1,500.00	\$ 15,000
	Contingency	1	LS	\$ 7,200.00	\$ 7,200
	Subtotal Construction				<b>\$ 157,000</b>

**Wayne Avenue to Webb Avenue**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Pipe Bursting Existing Line	3,300	LF	\$ 48.00	\$ 158,400
2	8" CIPP Lining of Sewer Lines		LF	\$ 35.00	\$ -
3	Point Repair of Sewer Line	2	EA	\$ 2,400.00	\$ 4,800
4	Manhole Replacement	16	EA	\$ 4,000.00	\$ 64,000
5	Manhole Rehabilitation		EA	\$ 1,200.00	\$ -
6	Service Connection	10	EA	\$ 1,500.00	\$ 15,000
	Contingency	1	LS	\$ 14,800.00	\$ 14,800
	Subtotal Construction				<b>\$ 257,000</b>

**Centennial Park to Stone Drive (900 LF)**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Pipe Bursting Existing Line		LF	\$ 48.00	\$ -
2	8" CIPP Lining of Sewer Lines	900	LF	\$ 35.00	\$ 31,500
3	Point Repair of Sewer Line	1	EA	\$ 2,400.00	\$ 2,400
4	Manhole Replacement		EA	\$ 4,000.00	\$ -
5	Manhole Rehabilitation	4	EA	\$ 1,200.00	\$ 4,800
6	Service Connection	10	EA	\$ 1,500.00	\$ 15,000
	Contingency	1	LS	\$ 3,300.00	\$ 3,300
	Subtotal Construction				<b>\$ 57,000</b>

**Genesis Road to County Garage Road (2,000 LF)**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Pipe Bursting Existing Line	1,000	LF	\$ 48.00	\$ 48,000
2	8" CIPP Lining of Sewer Lines	1,000	LF	\$ 35.00	\$ 35,000
3	Point Repair of Sewer Line	1	EA	\$ 2,400.00	\$ 2,400
4	Manhole Replacement		EA	\$ 4,000.00	\$ -
5	Manhole Rehabilitation	13	EA	\$ 1,200.00	\$ 15,600
6	Service Connection		EA	\$ 1,500.00	\$ -
	Contingency	1	LS	\$ 5,000.00	\$ 5,000
	Subtotal Construction				<b>\$ 106,000</b>

**Genesis Road South Pump Station and Force Main**

Item No.	Description	Qty	Unit	Unit Price	Total
1	Rehabilitate Pump Station	1	EA	\$ 60,000.00	\$ 60,000
2	Replace Force Main	60	LF	\$ 20.00	\$ 1,200
	Contingency	1	LS	\$ 3,800.00	\$ 3,800
	Subtotal Construction				<b>\$ 65,000</b>

**TOTAL PROJECT CONSTRUCTION ESTIMATE (PUMP STATION & REHAB) \$ 1,644,000**

**OTHER COSTS****SEWER INSPECTION BY OTHERS**

CCTV	3,000	EA	\$ 3.00	\$ 9,000
Manhole Inspection	20	EA	\$ 100.00	\$ 2,000
Heavy Cleaning if Needed	1,000	LF	\$ 1.00	\$ 1,000
Subtotal Inspection				<b>\$ 12,000</b>

**PROJECT BUDGET**

Construction	\$ 1,644,000
Design	\$ 100,000
Engineering During Construction	\$ 34,000
Resident Observation	\$ 90,000
Other Engineering (Sewer Inspection by Others)	\$ 12,000
<b>TOTAL PROJECT</b>	<b>\$ 1,880,000</b>