Option **Roadway 1** **Length** **1050 LF**

Desc. **Watercrest Rd to Thatcher Rd** **Roadway Section** **Collector**

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 99,750.00	$ 99,750.00
2	HMAC	1000	TON	$ 110.00	$ 110,000.00
3	AGGREGATE BASE	2800	TON	$ 20.00	$ 56,000.00
4	12 INCH STORM PIPE	1400	LF	$ 40.00	$ 56,000.00
5	CONCRETE INLET	30	EACH	$ 1,500.00	$ 45,000.00
6	CURB AND GUTTER	2100	LF	$ 20.00	$ 42,000.00
7	SIDEWALK	1170	SY	$ 5.00	$ 5,850.00
8	PAVEMENT STRIPING	4200	LF	$ 0.50	$ 2,100.00
9	EARTHWORK	4000	CY	$ 20.00	$ 80,000.00
10	GEOTEXSTILE	5000	EACH	$ 1.50	$ 7,500.00
11	PLANTING STRIP	1600	SY	$ 20.00	$ 32,000.00
12	WATER QUALITY	1	LS	$ 1.00	
13	CLEARING AND GRUBBING	2.0	ACRE	$ 3,000.00	$ 6,000.00
14	SIGNING	1	LS	$ 3,150.00	$ 3,150.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 5,250.00	$ 5,250.00
16	SURVEYING	1	LS	$ 21,000.00	$ 21,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 571,600.00
	CONTINGENCY (40%)				$ 228,640.00
	PRELIMINARY ENGINEERING (10%)				$ 80,024.00
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 120,036.00
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 1,000,300.00

Option **Roadway 2** **Length** **3700 LF**

Desc. **Area 7 to Area 8** **Roadway Section** **Collector**

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 304,000.00	$ 304,000.00
2	HMAC	3600	TON	$ 110.00	$ 396,000.00
3	AGGREGATE BASE	8500	TON	$ 20.00	$ 170,000.00
4	12 INCH STORM PIPE	4000	LF	$ 40.00	$ 160,000.00
5	CONCRETE INLET	37	EACH	$ 1,500.00	$ 55,500.00
6	CURB AND GUTTER	6400	LF	$ 20.00	$ 128,000.00
7	SIDEWALK	3556	SY	$ 5.00	$ 17,777.78
8	PAVEMENT STRIPING	12800	LF	$ 0.50	$ 6,400.00
9	EARTHWORK	48000	CY	$ 20.00	$ 960,000.00
10	GEOTEXSTILE	18000	EACH	$ 1.50	$ 27,000.00
11	PLANTING STRIP	4700	SY	$ 20.00	$ 94,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	6.0	ACRE	$ 3,000.00	$ 18,000.00
14	SIGNING	1	LS	$ 9,600.00	$ 9,600.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 16,000.00	$ 16,000.00
16	SURVEYING	1	LS	$ 64,000.00	$ 64,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 2,426,277.78
	CONTINGENCY (40%)				$ 970,511.11
	PRELIMINARY ENGINEERING (10%)				$ 339,678.89
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 509,518.33
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 4,245,986.11

Option **Roadway 3** **Length** **600 LF**

Desc. **Area 8 Connector** **Roadway Section** **Collector**

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 57,000.00	$ 57,000.00
2	HMAC	600	TON	$ 110.00	$ 66,000.00
3	AGGREGATE BASE	1600	TON	$ 20.00	$ 32,000.00
4	12 INCH STORM PIPE	800	LF	$ 40.00	$ 32,000.00
5	CONCRETE INLET	6	EACH	$ 1,500.00	$ 9,000.00
6	CURB AND GUTTER	1200	LF	$ 20.00	$ 24,000.00
7	SIDEWALK	667	SY	$ 5.00	$ 3,333.33
8	PAVEMENT STRIPING	2400	LF	$ 0.50	$ 1,200.00
9	EARTHWORK	9000	CY	$ 20.00	$ 180,000.00
10	GEOTEXSTILE	3000	EACH	$ 1.50	$ 4,500.00
11	PLANTING STRIP	900	SY	$ 20.00	$ 18,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	2.0	ACRE	$ 3,000.00	$ 6,000.00
14	SIGNING	1	LS	$ 1,800.00	$ 1,800.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 3,000.00	$ 3,000.00
16	SURVEYING	1	LS	$ 12,000.00	$ 12,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 449,833.33
	CONTINGENCY (40%)				$ 179,933.33
	PRELIMINARY ENGINEERING (10%)				$ 62,976.67
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 94,465.00
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 787,208.33

Option Roadway 4 **Length** 4700 LF

Desc. David Hill Road to Purdin Road **Roadway Section** Collector

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 446,500.00	$ 446,500.00
2	HMAC	4500	TON	$ 110.00	$ 495,000.00
3	AGGREGATE BASE	12500	TON	$ 20.00	$ 250,000.00
4	12 INCH STORM PIPE	5900	LF	$ 40.00	$ 236,000.00
5	CONCRETE INLET	47	EACH	$ 1,500.00	$ 70,500.00
6	CURB AND GUTTER	9400	LF	$ 20.00	$ 188,000.00
7	SIDEWALK	5222	SY	$ 5.00	$ 26,111.11
8	PAVEMENT STRIPING	18800	LF	$ 0.50	$ 9,400.00
9	EARTHWORK	56000	CY	$ 20.00	$ 1,120,000.00
10	GEOTEXSTILE	22000	EACH	$ 1.50	$ 33,000.00
11	PLANTING STRIP	6800	SY	$ 20.00	$ 136,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	9.0	ACRE	$ 3,000.00	$ 27,000.00
14	SIGNING	1	LS	$ 14,100.00	$ 14,100.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 23,500.00	$ 23,500.00
16	SURVEYING	1	LS	$ 94,000.00	$ 94,000.00
17	RETAINING WALLS	6000	SF	$ 50.00	$ 300,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 3,469,111.11
	CONTINGENCY (40%)				$ 1,387,644.44
	PRELIMINARY ENGINEERING (10%)				$ 485,675.56
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 728,513.33
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 6,070,944.44

Option Roadway 5 **Length** 1250 LF

Desc. Area 13 Mid-Block Connection to Thatcher Road **Roadway Section** Collector

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 118,750.00	$ 118,750.00
2	HMAC	1200	TON	$ 110.00	$ 132,000.00
3	AGGREGATE BASE	3400	TON	$ 20.00	$ 68,000.00
4	12 INCH STORM PIPE	1600	LF	$ 40.00	$ 64,000.00
5	CONCRETE INLET	13	EACH	$ 1,500.00	$ 19,500.00
6	CURB AND GUTTER	2500	LF	$ 20.00	$ 50,000.00
7	SIDEWALK	1389	SY	$ 5.00	$ 6,944.44
8	PAVEMENT STRIPING	5000	LF	$ 0.50	$ 2,500.00
9	EARTHWORK	7000	CY	$ 20.00	$ 140,000.00
10	GEOTEXSTILE	6000	EACH	$ 1.50	$ 9,000.00
11	PLANTING STRIP	1900	SY	$ 20.00	$ 38,000.00
12	WATER QUALITY	1	LS	$ 1.00	
13	CLEARING AND GRUBBING	3.0	ACRE	$ 3,000.00	$ 9,000.00
14	SIGNING	1	LS	$ 3,750.00	$ 3,750.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 6,250.00	$ 6,250.00
16	SURVEYING	1	LS	$ 25,000.00	$ 25,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 692,694.44
	CONTINGENCY (40%)				$ 277,077.78
	PRELIMINARY ENGINEERING (10%)				$ 96,977.22
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 145,465.83
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 1,212,215.28

Option Roadway 6 **Length** 2300 LF

Desc. Area 13 to Temporary Turn-around **Roadway Section** Collector

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 218,500.00	$ 218,500.00
2	HMAC	2200	TON	$ 110.00	$ 242,000.00
3	AGGREGATE BASE	6100	TON	$ 20.00	$ 122,000.00
4	12 INCH STORM PIPE	2900	LF	$ 40.00	$ 116,000.00
5	CONCRETE INLET	23	EACH	$ 1,500.00	$ 34,500.00
6	CURB AND GUTTER	4600	LF	$ 20.00	$ 92,000.00
7	SIDEWALK	2556	SY	$ 5.00	$ 12,777.78
8	PAVEMENT STRIPING	9200	LF	$ 0.50	$ 4,600.00
9	EARTHWORK	18000	CY	$ 20.00	$ 360,000.00
10	GEOTEXSTILE	11000	EACH	$ 1.50	$ 16,500.00
11	PLANTING STRIP	3400	SY	$ 20.00	$ 68,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	5.0	ACRE	$ 3,000.00	$ 15,000.00
14	SIGNING	1	LS	$ 6,900.00	$ 6,900.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 11,500.00	$ 11,500.00
16	SURVEYING	1	LS	$ 46,000.00	$ 46,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 1,366,277.78
	CONTINGENCY (40%)				$ 546,511.11
	PRELIMINARY ENGINEERING (10%)				$ 191,278.89
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 286,918.33
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 2,390,986.11

Option **Roadway 7** **Length** **5500 LF**

Desc. **Brook Street to David Hill Road** **Roadway Section** **Collector**

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 522,500.00	$ 522,500.00
2	HMAC	5300	TON	$ 110.00	$ 583,000.00
3	AGGREGATE BASE	14600	TON	$ 20.00	$ 292,000.00
4	12 INCH STORM PIPE	6900	LF	$ 40.00	$ 276,000.00
5	CONCRETE INLET	55	EACH	$ 1,500.00	$ 82,500.00
6	CURB AND GUTTER	11000	LF	$ 20.00	$ 220,000.00
7	SIDEWALK	6111	SY	$ 5.00	$ 30,555.56
8	PAVEMENT STRIPING	22000	LF	$ 0.50	$ 11,000.00
9	EARTHWORK	16000	CY	$ 20.00	$ 320,000.00
10	GEOTEXSTILE	26000	EACH	$ 1.50	$ 39,000.00
11	PLANTING STRIP	8000	SY	$ 20.00	$ 160,000.00
12	WATER QUALITY	1	LS	$ 1.00	
13	CLEARING AND GRUBBING	11.0	ACRE	$ 3,000.00	$ 33,000.00
14	SIGNING	1	LS	$ 16,500.00	$ 16,500.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 27,500.00	$ 27,500.00
16	SURVEYING	1	LS	$ 110,000.00	$ 110,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 2,723,555.56
	CONTINGENCY (40%)				$ 1,089,422.22
	PRELIMINARY ENGINEERING (10%)				$ 381,297.78
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 571,946.67
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 4,766,222.22

Option **Roadway 8** **Length** **1750 LF**

Desc. **David Hill Road to Proposed Brook Street** **Roadway Section** **Collector**

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 166,250.00	$ 166,250.00
2	HMAC	1700	TON	$ 110.00	$ 187,000.00
3	AGGREGATE BASE	4700	TON	$ 20.00	$ 94,000.00
4	12 INCH STORM PIPE	2200	LF	$ 40.00	$ 88,000.00
5	CONCRETE INLET	40	EACH	$ 1,500.00	$ 60,000.00
6	CURB AND GUTTER	3500	LF	$ 20.00	$ 70,000.00
7	SIDEWALK	1950	SY	$ 5.00	$ 9,750.00
8	PAVEMENT STRIPING	7000	LF	$ 0.50	$ 3,500.00
9	EARTHWORK	5000	CY	$ 20.00	$ 100,000.00
10	GEOTEXSTILE	9000	EACH	$ 1.50	$ 13,500.00
11	PLANTING STRIP	2600	SY	$ 20.00	$ 52,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	4.0	ACRE	$ 3,000.00	$ 12,000.00
14	SIGNING	1	LS	$ 5,250.00	$ 5,250.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 8,750.00	$ 8,750.00
16	SURVEYING	1	LS	$ 35,000.00	$ 35,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 905,000.00
	CONTINGENCY (40%)				$ 362,000.00
	PRELIMINARY ENGINEERING (10%)				$ 126,700.00
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 190,050.00
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 1,583,750.00

Option Roadway 9 **Length** 4050 LF

Desc. David Hill Road to Purdin Road **Roadway Section** 1/2 Street Improvements

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 384,750.00	$ 384,750.00
2	HMAC	4100	TON	$ 110.00	$ 451,000.00
3	AGGREGATE BASE	5200	TON	$ 20.00	$ 104,000.00
4	12 INCH STORM PIPE	5100	LF	$ 40.00	$ 204,000.00
5	CONCRETE INLET	90	EACH	$ 1,500.00	$ 135,000.00
6	CURB AND GUTTER	4050	LF	$ 20.00	$ 81,000.00
7	SIDEWALK	2250	SY	$ 5.00	$ 11,250.00
8	PAVEMENT STRIPING	16200	LF	$ 0.50	$ 8,100.00
9	EARTHWORK	11000	CY	$ 20.00	$ 220,000.00
10	GEOTEXSTILE	10000	EACH	$ 1.50	$ 15,000.00
11	PLANTING STRIP	2300	SY	$ 20.00	$ 46,000.00
12	WATER QUALITY	1	LS	$ 1.00	$ -
13	CLEARING AND GRUBBING	4.0	ACRE	$ 3,000.00	$ 12,000.00
14	SIGNING	1	LS	$ 12,150.00	$ 12,150.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 20,250.00	$ 20,250.00
16	SURVEYING	1	LS	$ 81,000.00	$ 81,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 1,785,500.00
	CONTINGENCY (40%)				$ 714,200.00
	PRELIMINARY ENGINEERING (10%)				$ 249,970.00
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 374,955.00
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 3,124,625.00

Option Roadway 10 **Length** 5100 LF

Desc. Thatcher Road to West of Area 9 **Roadway Section** Modified Collector Street

				Engineer's Estimate	
Item No.	Bid Item Description	Quantity	Unit	Unit Price	Total
1	MOBILIZATION	1	LS	$ 484,500.00	$ 484,500.00
2	HMAC	4100	TON	$ 110.00	$ 451,000.00
3	AGGREGATE BASE	11000	TON	$ 20.00	$ 220,000.00
4	12 INCH STORM PIPE	6400	LF	$ 40.00	$ 256,000.00
5	CONCRETE INLET	110	EACH	$ 1,500.00	$ 165,000.00
6	CURB AND GUTTER	10200	LF	$ 20.00	$ 204,000.00
7	SIDEWALK	3400	SY	$ 5.00	$ 17,000.00
8	PAVEMENT STRIPING	10200	LF	$ 0.50	$ 5,100.00
9	EARTHWORK	13000	CY	$ 20.00	$ 260,000.00
10	GEOTEXSTILE	20000	EACH	$ 1.50	$ 30,000.00
11	PLANTING STRIP	0	SY	$ 20.00	$ -
12	WATER QUALITY	1	LS	$ -	$ -
13	CLEARING AND GRUBBING	8.0	ACRE	$ 3,000.00	$ 24,000.00
14	SIGNING	1	LS	$ 15,300.00	$ 15,300.00
15	TRAFFIC CONTROL FOR CONSTRUCTION	1	LS	$ 25,500.00	$ 19,517.65
16	SURVEYING	1	LS	$ 102,000.00	$ 102,000.00
	ROADWAY CONSTRUCTION SUBTOTAL				$ 2,253,417.65
	CONTINGENCY (40%)				$ 901,367.06
	PRELIMINARY ENGINEERING (10%)				$ 315,478.47
	ROADWAY CONSTRUCTION ENGINEERING (15%)				$ 473,217.71
	ROADWAY CONSTRUCTION & CONSTRUCTION ENGINEERING				$ 3,943,480.89