

Estimated Costs-Bond 2021		
Project	Amount	Notes
Sachse Road PH 2	\$ 14,672,874	Miles Road to Merritt Road
Sachse Road PH 3	\$ 8,709,654	Merritt Road to Country Club Drive
Sachse Road PH 4	\$ 10,096,652	From Country Club Drive to city limits (including bridge)
Bailey-Hooper	\$ 10,656,921	SH 78 to Sachse Road; upgrade from asphalt collector to concrete collector
Williford	\$ 7,172,025	SH 78 to Bailey; upgrade from asphalt collector to concrete collector
West Creek	\$ 2,821,429	Sachse Road to Timbercreek Court' upgrade from asphalt collector to concrete collector
Blackburn-Ingram	\$ 9,056,868	Hilltop to Dewitt; upgrade from asphalt collector to concrete collector
Neighborhood Package	\$ 5,000,000	Sidewalks, general street repair (concrete and asphalt), drainage improvements
<i>Subtotal</i>	<i>\$ 68,186,424</i>	
Animal Shelter	\$ 8,000,000.00	
Screening Walls	\$ 2,000,000.00	
<b>TOTAL</b>	<b>\$ 78,186,424</b>	

Footnotes: Drainage rolled into all estimated cost/projects

**SACHSE ROAD - PHASE 2 (MILES ROAD TO MERRITT ROAD)**

**FACILITY UPGRADE FROM A TWO-LANE RURAL ARTERIAL  
TO A FOUR-LANE DIVIDED URBAN ARTERIAL (12' LANES)**

**PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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**1.0 ROADWAY**

1.01	Preparing Right of Way	44	STA	\$ 5,000	\$ 220,000
1.02	Roadway Pavement (Includes Base & Subgrade)	25,000	SY	\$ 90	\$ 2,250,000
1.03	Monolithic Curb	16,500	LF	\$ 3	\$ 49,500
1.04	Concrete Sidewalks (4')	3,700	SY	\$ 60	\$ 222,000
1.05	Pavement Striping (Solid)	950	LF	\$ 4	\$ 3,800
1.06	Pavement Striping (Broken)	2,200	LF	\$ 4	\$ 8,800
1.07	Driveway Approaches (Residential)	35	EA	\$ 8,000	\$ 280,000
1.08	Driveway Approaches (Commercial)	1	EA	\$ 10,000	\$ 10,000
1.09	Earthwork	45,000	CY	\$ 15	\$ 675,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 3,719,100</b>

**2.0 DRAINAGE & UTILITIES**

3.01	Box Culvert (Large)	150	LF	\$ 400	\$ 60,000
3.02	Drainage Pipe (Mains)	3,600	LF	\$ 150	\$ 540,000
3.03	Drainage Pipe (Laterals)	1,200	LF	\$ 100	\$ 120,000
3.04	Inlets & Manholes	42	EA	\$ 7,000	\$ 294,000
3.05	Wingwall	2	EA	\$ 15,000	\$ 30,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 1,044,000</b>

**3.0 STRUCTURES**

3.01	Bridge	12,000	SF	\$ 100	\$ 1,200,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 1,200,000</b>

**4.0 MISCELLANEOUS**

4.01	Demolition - Drainage Pipe	1,000	LF	\$ 20	\$ 20,000
4.02	Demolition - Structures (Culvert)	1	EA	\$ 6,000	\$ 6,000
4.03	Demolition - Structures (Bridge)	1	EA	\$ 30,000	\$ 30,000
4.04	Demolition - Pavement	15,000	SY	\$ 10	\$ 150,000
4.05	Sodding including Top Soil	19,000	SY	\$ 8	\$ 152,000
4.06	Signage	44	STA	\$ 500	\$ 22,000
4.07	Landscaping and Irrigation	44	STA	\$ 8,000	\$ 352,000
4.08	Roadway Lighting	44	STA	\$ 6,500	\$ 286,000
4.09	Waterline	44	STA	\$ 12,500	\$ 550,000
4.10	Sanitary Sewer	44	STA	\$ 10,000	\$ 440,000
4.11	SWP3	44	STA	\$ 300	\$ 13,200
4.12	Traffic Control	44	STA	\$ 7,000	\$ 308,000
4.13	Mobilization (10%)	1	LS	\$ 930,000	\$ 930,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 3,259,200</b>

**CONSTRUCTION COST SUMMARY**

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 9,222,300</b>
<b>Construction Contingency (20%)</b>	<b>\$ 1,844,460</b>
<b>Sub-Total Construction</b>	<b>\$ 11,066,760</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2024)</b>	<b>\$ 850,930</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 11,917,690</b>

**5.0 PROJECT EXPENSES**

5.01	Right of Way / Easement Acquisition	6	AC	\$ 85,000	\$ 510,000
5.02	404 Permitting	1	LS	\$ 100,000	\$ 100,000
5.03	Field Survey (1%)				\$ 119,177
5.04	Engineering Design (10%)				\$ 1,191,769
5.05	Materials Testing (2%)				\$ 238,354
5.06	Construction Admin / Inspection (5%)				\$ 595,885
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 2,755,184</b>

**TOTAL PROJECT COST SUMMARY**

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 11,917,690</b>
<b>Total Project Expenses</b>	<b>\$ 2,755,184</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 14,672,874</b>

Notes:

THIS STATEMENT WAS PREPARED UTILIZING STANDARD COST AND OR QUANTITY ESTIMATE PRACTICES. IT IS UNDERSTOOD AND AGREED THAT THIS IS AN ESTIMATE ONLY, AND THAT THE ENGINEER SHALL NOT BE LIABLE TO OWNER OR TO A THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE COST AND/OR QUANTITIES FOR THE PROJECT, OR ANY PART THEREOF.

**SACHSE ROAD - PHASE 3 (MERRITT ROAD TO COUNTRY CLUB DRIVE)**

**FACILITY UPGRADE FROM A TWO-LANE RURAL ARTERIAL  
TO A FOUR-LANE DIVIDED URBAN ARTERIAL (12' LANES)**

**PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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**1.0 ROADWAY**

1.01	Preparing Right of Way	29	STA	\$ 5,000	\$ 145,000
1.02	Roadway Pavement (Includes Base & Subgrade)	20,500	SY	\$ 90	\$ 1,845,000
1.03	Monolithic Curb	11,000	LF	\$ 3	\$ 33,000
1.04	Concrete Sidewalks (4')	2,500	SY	\$ 60	\$ 150,000
1.05	Pavement Striping (Solid)	1,200	LF	\$ 4	\$ 4,800
1.06	Pavement Striping (Broken)	1,500	LF	\$ 4	\$ 6,000
1.07	Driveway Approaches (Residential)	5	EA	\$ 8,000	\$ 40,000
1.08	Driveway Approaches (Commercial)	1	EA	\$ 10,000	\$ 10,000
1.09	Earthwork	30,000	CY	\$ 15	\$ 450,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 2,683,800</b>

**2.0 DRAINAGE & UTILITIES**

3.01	Box Culvert (Large)	300	LF	\$ 400	\$ 120,000
3.02	Drainage Pipe (Mains)	2,000	LF	\$ 150	\$ 300,000
3.03	Drainage Pipe (Laterals)	650	LF	\$ 100	\$ 65,000
3.04	Inlets & Manholes	24	EA	\$ 7,000	\$ 168,000
3.05	Wingwall	2	EA	\$ 15,000	\$ 30,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 683,000</b>

**3.0 MISCELLANEOUS**

4.01	Demolition - Drainage Pipe	700	LF	\$ 20	\$ 14,000
4.02	Demolition - Structures (Culvert)	1	EA	\$ 6,000	\$ 6,000
4.03	Demolition - Pavement	10,000	SY	\$ 10	\$ 100,000
4.04	Sodding including Top Soil	9,500	SY	\$ 8	\$ 76,000
4.05	Signage	29	STA	\$ 500	\$ 14,500
4.06	Landscaping and Irrigation	29	STA	\$ 8,000	\$ 232,000
4.07	Roadway Lighting	29	STA	\$ 6,500	\$ 188,500
4.08	Waterline	29	STA	\$ 12,500	\$ 362,500
4.09	Sanitary Sewer	29	STA	\$ 10,000	\$ 290,000
4.10	SWP3	29	STA	\$ 300	\$ 8,700
4.11	Traffic Control	29	STA	\$ 7,000	\$ 203,000
4.12	Mobilization (10%)	1	LS	\$ 540,000	\$ 540,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 2,035,200</b>

**CONSTRUCTION COST SUMMARY**

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 5,402,000</b>
<b>Construction Contingency (20%)</b>	<b>\$ 1,080,400</b>
<b>Sub-Total Construction</b>	<b>\$ 6,482,400</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2026)</b>	<b>\$ 851,841</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 7,334,241</b>

**5.0 PROJECT EXPENSES**

5.01	Right of Way / Easement Acquisition	0.65	AC	\$ 85,000	\$ 55,250
5.02	Field Survey (1%)				\$ 73,342
5.03	Engineering Design (10%)				\$ 733,424
5.04	Materials Testing (2%)				\$ 146,685
5.05	Construction Admin / Inspection (5%)				\$ 366,712
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 1,375,413</b>

**TOTAL PROJECT COST SUMMARY**

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 7,334,241</b>
<b>Total Project Expenses</b>	<b>\$ 1,375,413</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 8,709,654</b>

**Notes:**

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**SACHSE ROAD - PHASE 4**  
**FROM COUNTRY CLUB DRIVE TO CITY LIMIT (INCLUDE MUDDY CREEK BRIDGE)**

**FACILITY UPGRADE FROM A TWO-LANE RURAL ARTERIAL**  
**TO A FOUR-LANE DIVIDED URBAN ARTERIAL (12' LANES)**

**PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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**1.0 ROADWAY**

1.01	Preparing Right of Way	22	STA	\$ 5,000	\$ 110,000
1.02	Roadway Pavement (Includes Base & Subgrade)	10,000	SY	\$ 90	\$ 900,000
1.03	Monolithic Curb	6,500	LF	\$ 3	\$ 19,500
1.04	Transition Pavement	1,000	SY	\$ 75	\$ 75,000
1.05	Concrete Sidewalks (4')	1,400	SY	\$ 60	\$ 84,000
1.06	Pavement Striping (Solid)	1,400	LF	\$ 4	\$ 5,600
1.07	Pavement Striping (Broken)	800	LF	\$ 4	\$ 3,200
1.08	Driveway Approaches (Residential)	8	EA	\$ 8,000	\$ 64,000
1.09	Driveway Approaches (Commercial)	1	EA	\$ 10,000	\$ 10,000
1.10	Earthwork	25,000	CY	\$ 15	\$ 375,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 1,646,300</b>

**2.0 DRAINAGE & UTILITIES**

3.01	Drainage Pipe (Mains)	1,600	LF	\$ 150	\$ 240,000
3.02	Drainage Pipe (Laterals)	550	LF	\$ 100	\$ 55,000
3.03	Inlets & Manholes	19	EA	\$ 7,000	\$ 133,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 428,000</b>

**3.0 STRUCTURES**

3.01	Bridge	20,400	SF	\$ 100	\$ 2,040,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 2,040,000</b>

**4.0 MISCELLANEOUS**

4.01	Demolition - Drainage Pipe	600	LF	\$ 20	\$ 12,000
4.02	Demolition - Structures (Bridge)	1	EA	\$ 60,000	\$ 60,000
4.03	Demolition - Pavement	8,000	SY	\$ 10	\$ 80,000
4.04	Sodding including Top Soil	9,000	SY	\$ 8	\$ 72,000
4.05	Signage	22	STA	\$ 500	\$ 11,000
4.06	Landscaping and Irrigation	22	STA	\$ 8,000	\$ 176,000
4.07	Roadway Lighting	22	STA	\$ 6,500	\$ 143,000
4.08	Waterline	22	STA	\$ 12,500	\$ 275,000
4.09	Sanitary Sewer	22	STA	\$ 10,000	\$ 220,000
4.10	SWP3	22	STA	\$ 300	\$ 6,600
4.11	Traffic Control	22	STA	\$ 7,000	\$ 154,000
4.12	Mobilization (10%)	1	LS	\$ 590,000	\$ 590,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 1,799,600</b>

**CONSTRUCTION COST SUMMARY**

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 5,913,900</b>
<b>Construction Contingency (20%)</b>	<b>\$ 1,182,780</b>
<b>Sub-Total Construction</b>	<b>\$ 7,096,680</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2028)</b>	<b>\$ 1,339,042</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 8,435,722</b>

**5.0 PROJECT EXPENSES**

5.01	Right of Way / Easement Acquisition	0.50	AC	\$ 85,000	\$ 42,500
5.02	404 Permitting	1	LS	\$ 100,000	\$ 100,000
5.03	Field Survey (1%)				\$ 84,357
5.04	Engineering Design (10%)				\$ 843,572
5.05	Materials Testing (2%)				\$ 168,714
5.06	Construction Admin / Inspection (5%)				\$ 421,786
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 1,660,930</b>

**TOTAL PROJECT COST SUMMARY**

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 8,435,722</b>
<b>Total Project Expenses</b>	<b>\$ 1,660,930</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 10,096,652</b>

Notes:

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**BAILEY-HOOPER ROAD (SH 78 TO SACHSE ROAD)**

**FACILITY UPGRADE FROM A TWO-LANE ASPHALT COLLECTOR  
TO A TWO-LANE CONCRETE COLLECTOR (30' FACE-FACE)**

**PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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**1.0 ROADWAY**

1.01	Preparing Right of Way	54	STA	\$ 5,000	\$ 270,000
1.02	Roadway Pavement (Includes Base & Subgrade)	19,000	SY	\$ 80	\$ 1,520,000
1.03	Monolithic Curb	10,800	LF	\$ 3	\$ 32,400
1.04	Concrete Sidewalks (4')	4,400	SY	\$ 60	\$ 264,000
1.05	Pavement Striping (Solid)	10,800	LF	\$ 4	\$ 43,200
1.06	Driveway Approaches (Residential)	44	EA	\$ 6,000	\$ 264,000
1.07	Driveway Approaches (Commercial)	3	EA	\$ 7,500	\$ 22,500
1.08	Earthwork	27,000	CY	\$ 15	\$ 405,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 2,821,100</b>

**2.0 DRAINAGE & UTILITIES**

3.01	Box Culvert (Small)	70	LF	\$ 200	\$ 14,000
3.02	Drainage Pipe (Mains)	5,000	LF	\$ 150	\$ 750,000
3.03	Drainage Pipe (Laterals)	330	LF	\$ 100	\$ 33,000
3.04	Inlets & Manholes	30	EA	\$ 7,000	\$ 210,000
3.05	Headwall	2	EA	\$ 3,000	\$ 6,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 1,013,000</b>

**4.0 MISCELLANEOUS**

4.01	Demolition - Drainage Pipe	1,300	LF	\$ 20	\$ 26,000
4.02	Demolition - Structures (Culvert)	1	EA	\$ 6,000	\$ 6,000
4.03	Demolition - Pavement	17,000	SY	\$ 6	\$ 102,000
4.04	Sodding including Top Soil	19,000	SY	\$ 8	\$ 152,000
4.05	Signage	54	STA	\$ 500	\$ 27,000
4.06	Waterline	54	STA	\$ 12,500	\$ 675,000
4.07	Sanitary Sewer	54	STA	\$ 10,000	\$ 540,000
4.08	SWP3	54	STA	\$ 300	\$ 16,200
4.09	Traffic Control	54	STA	\$ 5,000	\$ 270,000
4.10	Mobilization (10%)	1	LS	\$ 620,000	\$ 620,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 2,434,200</b>

**CONSTRUCTION COST SUMMARY**

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 6,268,300</b>
<b>Construction Contingency (20%)</b>	<b>\$ 1,253,660</b>
<b>Sub-Total Construction</b>	<b>\$ 7,521,960</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2028)</b>	<b>\$ 1,419,287</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 8,941,247</b>

**5.0 PROJECT EXPENSES**

5.01	Right of Way / Easement Acquisition	1.25	AC	\$ 85,000	\$ 106,250
5.02	Field Survey (1%)				\$ 89,412
5.03	Engineering Design (10%)				\$ 894,125
5.04	Materials Testing (2%)				\$ 178,825
5.05	Construction Admin / Inspection (5%)				\$ 447,062
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 1,715,674</b>

**TOTAL PROJECT COST SUMMARY**

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 8,941,247</b>
<b>Total Project Expenses</b>	<b>\$ 1,715,674</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 10,656,921</b>

Notes:

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## WILLIFORD ROAD (SH 78 TO BAILEY ROAD)

### FACILITY UPGRADE FROM A TWO-LANE ASPHALT COLLECTOR TO A TWO-LANE CONCRETE COLLECTOR (30' FACE-FACE)

#### PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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#### 1.0 ROADWAY

1.01	Preparing Right of Way	35	STA	\$ 5,000	\$ 175,000
1.02	Roadway Pavement (Includes Base & Subgrade)	13,000	SY	\$ 80	\$ 1,040,000
1.03	Monolithic Curb	7,000	LF	\$ 3	\$ 21,000
1.04	Concrete Sidewalks (6')	4,100	SY	\$ 60	\$ 246,000
1.05	Pavement Striping (Solid)	6,900	LF	\$ 4	\$ 27,600
1.06	Driveway Approaches (Residential)	25	EA	\$ 6,000	\$ 150,000
1.07	Driveway Approaches (Commercial)	3	EA	\$ 7,500	\$ 22,500
1.08	Earthwork	18,000	CY	\$ 15	\$ 270,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 1,952,100</b>

#### 2.0 DRAINAGE & UTILITIES

3.01	Box Culvert (Large)	210	LF	\$ 400	\$ 84,000
3.02	Box Culvert (Small)	140	LF	\$ 200	\$ 28,000
3.03	Drainage Pipe (Mains)	2,600	LF	\$ 150	\$ 390,000
3.04	Drainage Pipe (Laterals)	180	LF	\$ 100	\$ 18,000
3.05	Inlets & Manholes	15	EA	\$ 7,000	\$ 105,000
3.06	Wingwall	2	EA	\$ 15,000	\$ 30,000
3.07	Headwall	4	EA	\$ 3,000	\$ 12,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 667,000</b>

#### 4.0 MISCELLANEOUS

4.01	Demolition - Drainage Pipe	1,200	LF	\$ 20	\$ 24,000
4.02	Demolition - Structures (Culvert)	3	EA	\$ 6,000	\$ 18,000
4.03	Demolition - Pavement	11,500	SY	\$ 6	\$ 69,000
4.04	Sodding including Top Soil	10,000	SY	\$ 8	\$ 80,000
4.05	Signage	35	STA	\$ 500	\$ 17,500
4.06	Waterline	35	STA	\$ 12,500	\$ 437,500
4.07	Sanitary Sewer	35	STA	\$ 10,000	\$ 350,000
4.08	SWP3	35	STA	\$ 300	\$ 10,500
4.09	Traffic Control	35	STA	\$ 5,000	\$ 175,000
4.10	Mobilization (10%)	1	LS	\$ 420,000	\$ 420,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 1,601,500</b>

#### CONSTRUCTION COST SUMMARY

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 4,220,600</b>
<b>Construction Contingency (20%)</b>	<b>\$ 844,120</b>
<b>Sub-Total Construction</b>	<b>\$ 5,064,720</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2028)</b>	<b>\$ 955,641</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 6,020,361</b>

#### 5.0 PROJECT EXPENSES

5.01	Right of Way / Easement Acquisition	0.80	AC	\$ 85,000	\$ 68,000
5.02	Field Survey (1%)				\$ 60,204
5.03	Engineering Design (10%)				\$ 602,036
5.04	Materials Testing (2%)				\$ 120,407
5.05	Construction Admin / Inspection (5%)				\$ 301,018
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 1,151,665</b>

#### TOTAL PROJECT COST SUMMARY

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 6,020,361</b>
<b>Total Project Expenses</b>	<b>\$ 1,151,665</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 7,172,025</b>

#### Notes:

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## WEST CREEK LANE (SACHSE ROAD TO TIMBERCREEK COURT)

### FACILITY UPGRADE FROM A TWO-LANE ASPHALT COLLECTOR TO A TWO-LANE CONCRETE COLLECTOR (30' FACE-FACE)

#### PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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#### 1.0 ROADWAY

1.01	Preparing Right of Way	20	STA	\$ 5,000	\$ 100,000
1.02	Roadway Pavement (Includes Base & Subgrade)	7,000	SY	\$ 80	\$ 560,000
1.03	Monolithic Curb	4,000	LF	\$ 3	\$ 12,000
1.04	Concrete Sidewalks (4')	1,700	SY	\$ 60	\$ 102,000
1.05	Driveway Approaches (Residential)	16	EA	\$ 6,000	\$ 96,000
1.06	Earthwork	10,000	CY	\$ 15	\$ 150,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 1,020,000</b>

#### 2.0 DRAINAGE & UTILITIES

3.01	Drainage Pipe (Mains)	1,500	LF	\$ 150	\$ 225,000
3.02	Drainage Pipe (Laterals)	150	LF	\$ 100	\$ 15,000
3.03	Inlets & Manholes	8	EA	\$ 7,000	\$ 56,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 296,000</b>

#### 4.0 MISCELLANEOUS

4.01	Demolition - Drainage Pipe	150	LF	\$ 20	\$ 3,000
4.02	Demolition - Pavement	6,000	SY	\$ 6	\$ 36,000
4.03	Sodding including Top Soil	2,500	SY	\$ 8	\$ 20,000
4.04	Signage	20	STA	\$ 500	\$ 10,000
4.05	SWP3	20	STA	\$ 300	\$ 6,000
4.06	Traffic Control	20	STA	\$ 5,000	\$ 100,000
4.07	Mobilization (10%)	1	LS	\$ 160,000	\$ 160,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 335,000</b>

#### CONSTRUCTION COST SUMMARY

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 1,651,000</b>
<b>Construction Contingency (20%)</b>	<b>\$ 330,200</b>
<b>Sub-Total Construction</b>	<b>\$ 1,981,200</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2028)</b>	<b>\$ 373,824</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 2,355,024</b>

#### 5.0 PROJECT EXPENSES

5.01	Right of Way / Easement Acquisition	0.50	AC	\$ 85,000	\$ 42,500
5.02	Field Survey (1%)				\$ 23,550
5.03	Engineering Design (10%)				\$ 235,502
5.04	Materials Testing (2%)				\$ 47,100
5.05	Construction Admin / Inspection (5%)				\$ 117,751
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 466,404</b>

#### TOTAL PROJECT COST SUMMARY

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 2,355,024</b>
<b>Total Project Expenses</b>	<b>\$ 466,404</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 2,821,429</b>

Notes:

THIS STATEMENT WAS PREPARED UTILIZING STANDARD COST AND OR QUANTITY ESTIMATE PRACTICES. IT IS UNDERSTOOD AND AGREED THAT THIS IS AN ESTIMATE ONLY, AND THAT THE ENGINEER SHALL NOT BE LIABLE TO OWNER OR TO A THIRD PARTY FOR ANY FAILURE TO ACCURATELY ESTIMATE THE COST AND/OR QUANTITIES FOR THE PROJECT, OR ANY PART THEREOF.

## BLACKBURN-INGRAM ROAD (HILLTOP TRAIL TO DEWITT ROAD)

### FACILITY UPGRADE FROM A TWO-LANE ASPHALT COLLECTOR TO A TWO-LANE CONCRETE COLLECTOR (30' FACE-FACE)

#### PRELIMINARY/CONCEPTUAL ESTIMATE OF PROBABLE COSTS OF CONSTRUCTION

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT COST	SUBTOTAL COST
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#### 1.0 ROADWAY

1.01	Preparing Right of Way	44	STA	\$ 5,000	\$ 220,000
1.02	Roadway Pavement (Includes Base & Subgrade)	17,600	SY	\$ 85	\$ 1,496,000
1.03	Monolithic Curb	9,000	LF	\$ 3	\$ 27,000
1.04	Concrete Sidewalks (4')	3,600	SY	\$ 60	\$ 216,000
1.05	Pavement Striping (Solid)	8,800	LF	\$ 4	\$ 35,200
1.06	Driveway Approaches (Residential)	40	EA	\$ 6,000	\$ 240,000
1.07	Driveway Approaches (Commercial)	3	EA	\$ 7,500	\$ 22,500
1.08	Earthwork	22,000	CY	\$ 15	\$ 330,000
<b>SUBTOTAL ROADWAY</b>					<b>\$ 2,586,700</b>

#### 2.0 DRAINAGE & UTILITIES

3.01	Box Culvert (Small)	60	LF	\$ 200	\$ 12,000
3.02	Drainage Pipe (Mains)	3,200	LF	\$ 150	\$ 480,000
3.03	Drainage Pipe (Laterals)	210	LF	\$ 100	\$ 21,000
3.04	Inlets & Manholes	18	EA	\$ 7,000	\$ 126,000
3.05	Headwall	2	EA	\$ 3,000	\$ 6,000
<b>SUBTOTAL DRAINAGE</b>					<b>\$ 645,000</b>

#### 4.0 MISCELLANEOUS

4.01	Demolition - Drainage Pipe	1,700	LF	\$ 20	\$ 34,000
4.02	Demolition - Pavement	15,000	SY	\$ 10	\$ 150,000
4.03	Sodding including Top Soil	10,000	SY	\$ 8	\$ 80,000
4.04	Signage	44	STA	\$ 500	\$ 22,000
4.05	Waterline	44	STA	\$ 12,500	\$ 550,000
4.06	Sanitary Sewer	44	STA	\$ 10,000	\$ 440,000
4.07	SWP3	44	STA	\$ 300	\$ 13,200
4.08	Traffic Control	44	STA	\$ 5,000	\$ 220,000
4.09	Mobilization (10%)	1	LS	\$ 530,000	\$ 530,000
<b>SUBTOTAL MISCELLANEOUS</b>					<b>\$ 2,039,200</b>

#### CONSTRUCTION COST SUMMARY

<b>SUBTOTAL CONSTRUCTION</b>	<b>\$ 5,270,900</b>
<b>Construction Contingency (20%)</b>	<b>\$ 1,054,180</b>
<b>Sub-Total Construction</b>	<b>\$ 6,325,080</b>
<b>Cost Escalation (2.5%/Year - Construction Begin 2028)</b>	<b>\$ 1,193,452</b>
<b>TOTAL CONSTRUCTION COST (FUTURE DOLLARS)</b>	<b>\$ 7,518,532</b>

#### 5.0 PROJECT EXPENSES

5.01	Right of Way / Easement Acquisition	1	AC	\$ 85,000	\$ 85,000
5.02	404 Permitting	1	LS	\$ 100,000	\$ 100,000
5.03	Field Survey (1%)				\$ 75,185
5.04	Engineering Design (10%)				\$ 751,853
5.05	Materials Testing (2%)				\$ 150,371
5.06	Construction Admin / Inspection (5%)				\$ 375,927
<b>TOTAL PROJECT EXPENSES</b>					<b>\$ 1,538,336</b>

#### TOTAL PROJECT COST SUMMARY

<b>Total Construction Cost (Future Dollars)</b>	<b>\$ 7,518,532</b>
<b>Total Project Expenses</b>	<b>\$ 1,538,336</b>
<b>TOTAL PROJECT COST (FUTURE DOLLARS)</b>	<b>\$ 9,056,868</b>

#### Notes:

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