

APPENDIX C
Cost Estimate

Dairy Ashford Rd

NEED AREA: N-320100-0010-3: Dairy Ashford Rd from Memorial Dr to Briar Forest Dr
ALTERNATIVE: Reconstruction

**BID FORM
PART B**

Document 00410B Note 1

BID FORM - PART B

1.0 TOTAL BID PRICE HAS BEEN CALCULATED BY BIDDER, USING THE FOLLOWING COMPONENT PRICES AND

A. STIPULATED PRICE

\$ N/A

(Total Bid Price; minus Base Unit Prices, Extra Unit Process, Cash Allowance and All Alternates, if any)

B. BASE UNIT PRICE TABLE:

Item No.	Item Reference No. Note 2	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - PAVING ITEMS							
1	222101	02221	Remove/Dispose of concrete pavements (including all thickness, w/ or w/o asphalt, including base & subgrade, w/ or w/o curb, all depths)	SY	33,610	\$8.00	\$268,880.00
2	222102	02221	Remove and Dispose of Existing Driveways and Sidewalks	SY	7,794	\$5.00	\$38,972.00
3	275106	02751	11" Reinforced Concrete Pavement (Complete in Place)	SY	32,570	\$119.00	\$3,875,830.00
4	233601	02336	Lime stabilized subgrade for driveway 6-inch (6% lime by dry weight)	SY	1,430	\$16.00	\$22,880.00
5	233602	02336	Lime stabilized subgrade for roadway, 8-inch (6% lime by dry weight)	SY	35,830	\$8.00	\$286,640.00
6	233603	02336	Lime (6, 7% By Weight)	TON	730	\$190.00	\$138,700.00
7	-	-	2-inch Asphalt Overlay	TON	-	-	-
8	277101	02771	6" Concrete Curb	LF	22,900	\$5.00	\$114,500.00
9	275201	02752	Expansion Joint	LF	3,530	\$9.00	\$31,770.00
10	275401	02754	6" Concrete for Driveways	SF	12,900	\$12.00	\$154,800.00
11	277501	02775	4-1/2" Concrete for Sidewalks	SF	68,700	\$9.00	\$618,300.00
12	292201	02922	Sodding	SY	24,630	\$5.00	\$123,150.00
13	-	02893	Salvage Existing Traffic Signal System	EA	2	\$3,850.00	\$7,700.00
14	289301	02893	Traffic Signal/Intersection	EA	2	\$300,000.00	\$600,000.00
15	-	-	Pavement Marking	LS	-	-	\$120,000.00
16	-	01554S	Signing	EA	15	\$450.00	\$6,637.50
17	231501	02315	Roadway Excavation	CY	26,060	\$18.00	\$469,080.00
18	-	-	Roadway Bridge	SF	18,000	\$100.00	\$1,800,000.00
19	1601001	-	Street Light Removal	EA	50	\$272.00	\$13,600.00
20	1601002	-	Street Light Installation (includes conduit and Temporary Lighting during Construction)	LF	5,725	\$32.00	\$183,200.00
			Ancillary items (0%)				
			SubTotal of Paving				\$8,874,639.50
			General Items (10% of Paving Subtotal)				\$887,463.95
TOTAL - PAVING ITEMS							\$9,762,103.45

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Bidders Initials []

Dairy Ashford Rd

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**BID FORM
PART B**

Item No.	Item Reference No. <small>Note 2</small>	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - STORM SEWER ITEMS							
1	222103	02221	Remove Storm Sewer Pipe (All Types)	LF	9,000	\$25.00	\$225,000.00
2	222105	02221	Remove Inlets (All Types)	EA	30	\$1,000.00	\$30,000.00
3	222106	02221	Remove Manholes (All Types, All Depths)	EA	15	\$1,000.00	\$15,000.00
4	263301	02633	Curb Inlets (All Types)	EA	30	\$4,000.00	\$120,000.00
5	208201	02082	Manholes (For 42" Dia. Pipe and Smaller) (All Types)	EA	15	\$5,000.00	\$75,000.00
6	208202	02082	Manholes (For 48" to 72" Dia. Pipe) (All Types)	EA	6	\$9,000.00	\$54,000.00
7	208203	02082	Junction Box (All Sizes)	EA	6	\$16,500.00	\$90,750.00
8	263101	02631	24-inch RCP	LF	3,980	\$150.00	\$597,000.00
9	263104	02631	42-inch RCP	LF	280	\$215.00	\$60,200.00
10	263105	02631	48-inch RCP	LF	290	\$250.00	\$72,500.00
11	263106	02631	54-inch RCP	LF	1,390	\$270.00	\$375,300.00
12	263107	02631	60-inch RCP	LF	300	\$350.00	\$105,000.00
13	263109	02631	72-inch RCP	LF	630	\$700.00	\$441,000.00
14	263113	02631	84-inch RCP	LF	1,220	\$900.00	\$1,098,000.00
15	263161	02631	12x10 RCB	LF	2,300	\$1,200.00	\$2,760,000.00
16	226001	02260	Trench Safety System	LF	6,000	\$4.00	\$24,000.00
			Ancillary items (0%)				
			SubTotal of Storm Sewer				\$6,142,750.00
			General Items (10% of Storm Sewer Subtotal)				\$614,275.00
TOTAL UNIT PRICES - STORM SEWER ITEMS							\$6,757,025.00

Item No.	Item Reference No. <small>Note 2</small>	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - WASTEWATER							
1	222108	02221	Remove Existing Sanitary Sewer Manhole (All Types)	EA	15	\$150.00	\$2,250.00
2	222201	02221	Abandon and Fill Existing Sanitary Sewer Manhole (All Types)	EA	5	\$1,000.00	\$5,000.00
3	222109	02221	Remove Existing Sanitary Sewer Pipe (All Types)	LF	4,650	\$9.00	\$41,850.00
4		02531	8" PVC	LF	470	\$100.00	\$47,000.00
5		2531	18" PVC	LF	2,820	\$300.00	\$846,000.00
6		2531	24" PVC	LF	1,310	\$200.00	\$262,000.00
7	253108	02531	30" PVC	LF	50	\$400.00	\$20,000.00
8	208204	02082	Sanitary Sewer Manholes (4' diameter)	EA	10	\$4,200.00	\$42,000.00
9	208204	02082	Sanitary Sewer Manholes (5'-8' diameter)	EA	10	\$7,500.00	\$75,000.00
			Ancillary Items (0%)				
			SubTotal of Wastewater				\$1,341,100.00
			General Items (10% of Wastewater Subtotal)				\$134,110.00
TOTAL UNIT PRICES - WASTEWATER							\$1,475,210.00

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Bidders Initials []

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Item No.	Item Reference No. <small>Note 2</small>	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - WATER							
1	252001	02520	Remove and Salvage Fire Hydrants	EA	15	\$385.00	\$5,775.00
2	222107	02221	Remove Existing Water Line (All Types)	LF	6,390	\$16.00	\$102,240.00
3	251102	02511	4-INCH DIAMETER WATER LINE	LF	20	\$200.00	\$4,000.00
4		02511	6-INCH DIAMETER WATER LINE	LF	140	\$100.00	\$14,000.00
5		02511	8-INCH DIAMETER WATER LINE	LF	320	\$130.00	\$41,600.00
6	251104	02511	12-INCH DIAMETER WATER LINE	LF	300	\$120.00	\$36,000.00
7		02511	24-INCH DIAMETER WATER LINE	LF	5,610	\$400.00	\$2,244,000.00
8	252002	02520	Fire Hydrant Assembly	EA	15	\$5,400.00	\$81,000.00
		-	Ancillary items (0%)				
			SubTotal				\$2,528,615.00
		-	General Items (10% of Water SubTotal)				\$252,861.50
TOTAL UNIT PRICES - WATER							\$2,781,476.50

Item No.	Item Reference No. <small>Note 2</small>	Spec No.	Item Description	Unit Measure	Unit Quantity	Unit Price (this column controls)	Total in Figures
UNIT PRICES - DETENTION							
1		-	Excavation (Detention Pond) (Dry)	AC-FT			
2		-	Excavation (Detention Pond) (Wet)	AC-FT			
3		-	Regional Detention	AC-FT		\$44,796.00	\$0.00
TOTAL UNIT PRICES - DETENTION							\$0.00

TOTAL BASE UNIT PRICE: **\$20,775,814.95**

Note:

1. This is not a Standard Document 00410B (Form 410). The Form 410 was modified for the purpose of planning level cost estimates for Pre-Engineering Studies.
2. The "Item Reference No." shall be designated for each item listed. The numbers serve as reference and will be used for the future cost updates.

Pre-Engineering Services Contracts

Total Project Cost Estimate Breakdown (FY21 Dollars)

Need No. N-320100-0010-3: Dairy Ashford Rd from Memorial Dr to Briar Forest Dr

Alt: Reconstruction

A summary of total implementation costs including design and construction management costs, and bridge over Buffalo Bayou is presented in the below table. Cost estimate for new bridges over Buffalo Bayou is \$1.8 M.

1	410 (Summarized based on FY 21 List of Unit Prices)	\$20,775,814.95
1.1	Total Unit Price, Paving Items*	\$9,762,103.45
1.2	Total Unit Price, Storm Sewer Items	\$6,757,025.00
1.3	Total Unit Price, Water Items	\$2,781,476.50
1.4	Total Unit Price, Wastewater Items	\$1,475,210.00
2	Contingency (30% of 410)	\$6,232,744.49
3	Construction Management (15% of 410)	\$3,116,372.24
4	Engineering Fee Estimate (20% of Sum of 410 and Contingency)	\$5,401,711.89
5	Design Management (15% of Engineering Fee Estimate)	\$810,256.78
6	Land Acquisition (Engineer's Best Estimate)	\$0.00
	Total Project Cost	\$36,336,900.35

**Includes \$1.8 M for new bridges over Buffalo Bayou*

Note: General Items are prorated in Paving, Storm, Water & Wastewater items.