

**OLD FITZHUGH ROAD**

**60% ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST (EOPCC)**

DISTRICT: AUSTIN  
 COUNTY: HAYS  
 CSJ: TBD  
 DATE: 11/9/2023



**HDR Engineering, Inc. Firm F-754**

Unit prices are Engineer's Opinion on Probable Construction Costs (EOPCC) based on Engineer's previous experience and qualifications which represents the Engineer's judgment as a design professional familiar with the construction industry. Quantities identified in the EOPCC have been estimated by HDR Engineering, Inc. The Engineer neither makes representation nor accepts responsibility as to the accuracy of these quantities as stated below. The Engineer cannot and does not guarantee that the proposals, bids, or actual construction costs will not vary from these estimates of probable costs prepared for the Owner or the intended recipient of this document.

**DESCRIPTION**

For the reconstruction of Old Fitzhugh Road including lime stabilized base, flexible base, asphalt, curb, gutter, parking turnouts, driveways, exposed aggregate sidewalk, flagstone sidewalk, illumination, storm sewer, extended detention ponds, and landscaping.

ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE <sup>1</sup>	Old Fitz	
				QUANTITY	COST
<b>SUMMARY OF TRAFFIC CONTROL QUANTITIES</b>					
803S-MO	BARRIADES, SIGNS, AND TRAFFIC HANDLING	MO	\$ 8,000.00	6	\$ 48,000.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>48,000.00</b>

**SUMMARY OF REMOVAL QUANTITIES**

100 6002	PREPARING ROW	STA	\$ 5,000.00	33	\$ 165,000.00
104 6015	REMOVING CONC (SIDEWALKS)	SY	\$ 65.00	47	\$ 3,055.00
104 6022	REMOVING CONC (CURB AND GUTTER)	LF	\$ 35.00	255	\$ 8,925.00
104 6028	REMOVING CONC (MISC)	SY	\$ 4.00	26	\$ 104.00
106 6002	OBLITERATING ABANDONED ROAD	SY	\$ 8.00	8,614	\$ 68,912.00
496 6016	REMOV STR (PIPE)	EA	\$ 500.00	9	\$ 4,500.00
496 6043	REMOV STR (SMALL FENCE)	LF	\$ 10.00	88	\$ 880.00
560 6025	RELOCATE EXISTING MAILBOX	EA	\$ 550.00	26	\$ 14,300.00
690 6057	REMOVAL OF PEDESTRIAN RAMPS	EA	\$ 550.00	9	\$ 4,950.00
7211 6041	REMOVE ASPHALT DRIVEWAY PAVEMENT	SY	\$ 15.00	265	\$ 3,975.00
7211 6042	REMOVE CONCRETE DRIVEWAY PAVEMENT	SY	\$ 20.00	265	\$ 5,300.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>279,901.00</b>

**SUMMARY OF ROADWAY QUANTITIES**

110 6001	EXCAVATION (ROADWAY)	CY	\$ 40.00	1,408	\$ 56,320.00
132 6004	EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	\$ 25.00	5,935	\$ 148,375.00
132 6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY	\$ 55.00	2,140	\$ 117,700.00
247 6366	FL BS (CMP IN PLC)(TY A GR 5)(FNAL POS)	CY	\$ 105.00	3,611	\$ 379,155.00
310 6004	PRIME COAT (AC)	GAL	\$ 7.00	7,607	\$ 53,249.00
340 6272	TACK COAT	GAL	\$ 8.00	7,607	\$ 60,856.00
341 6031	D-GR HMA TY-C PG76-22	TON	\$ 165.00	1,673	\$ 276,045.00
360 6027	CURB (TYPE II)	LF	\$ 25.00	728	\$ 18,200.00
529 6008	CONC CURB & GUTTER (TY II)	LF	\$ 60.00	2,267	\$ 136,020.00
529 6038	CONC CURB (RIBBON)	LF	\$ 25.00	2,912	\$ 72,800.00
530 6004	DRIVEWAYS (CONC)	SY	\$ 130.00	807	\$ 104,910.00
530 6007	TURNOUTS (CONC)	SY	\$ 75.00	674	\$ 50,550.00
530 7001	SPEED TABLE	SY	\$ 130.00	335	\$ 43,550.00
530 7002	DRIVEWAYS (GRAVEL)	SY	\$ 30.00	477	\$ 14,310.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>1,532,040.00</b>

**SUMMARY OF SIGNING AND PAVEMENT MARKING QUANTITIES**

644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	\$ 1,000.00	30	\$ 30,000.00
644 6076	REMOVE SM RD SN SUP&AM	EA	\$ 150.00	18	\$ 2,700.00
666 6041	REFL PAV MRK TY I (W)12"(SLD)(090MIL)	LF	\$ 10.00	286	\$ 2,860.00
666 6047	REFL PAV MRK TY I (W)24"(SLD)(090MIL)	LF	\$ 20.00	37	\$ 740.00
666 6098	REF PAV MRK TY I(W)18"(YLD TRI)(090MIL)	EA	\$ 85.00	5	\$ 425.00
666 6302	RE PM W/RET REQ TY I (W)4"(SLD)(090MIL)	LF	\$ 5.00	337	\$ 1,685.00
666 6314	RE PM W/RET REQ TY I (Y)4"(SLD)(090MIL)	LF	\$ 6.00	6,166	\$ 36,996.00
668 6113	PRE PM TY C(ACC PRK)(BL&WH)(W/BORDR)LG	EA	\$ 600.00	1	\$ 600.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>76,006.00</b>

**SUMMARY OF PEDESTRIAN QUANTITIES**

531 6002	CONC SIDEWALKS (5")	SY	\$ 110.00	2,965	\$ 326,150.00
531 6004	CURB RAMPS (TY 1)	EA	\$ 2,300.00	2	\$ 4,600.00
531 6010	CURB RAMPS (TY 7)	EA	\$ 3,000.00	2	\$ 6,000.00
531 6013	CURB RAMPS (TY 10)	EA	\$ 2,000.00	5	\$ 10,000.00
531 6016	CURB RAMPS (TY 21)	EA	\$ 4,000.00	2	\$ 8,000.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>367,440.00</b>

**SUMMARY OF HARDSCAPE QUANTITIES**

HARDSCAPE01	Gravel	CY	\$ 166.00	50	\$ 8,300.00
HARDSCAPE02	Flagstone Paving	SF	\$ 30.00	1,485	\$ 44,550.00
HARDSCAPE03	Bench	EA	\$ 2,000.00	11	\$ 22,000.00
HARDSCAPE04	Trash and Recycle Receptacles	EA	\$ 2,000.00	10	\$ 20,000.00
HARDSCAPE05	Bike Rack	EA	\$ 800.00	11	\$ 8,800.00
HARDSCAPE06	Picnic Table	EA	\$ 4,000.00	1	\$ 4,000.00
HARDSCAPE07	Pet Station	EA	\$ 800.00	5	\$ 4,000.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>111,650.00</b>

**SUMMARY OF DRAINAGE QUANTITIES**

111S-A	EXCAVATION	CY	\$ 15.00	336	\$ 5,040.00
132S-A	EMBANKMENT	CY	\$ 15.00	28	\$ 420.00
430S-	POND DIVERSION STRUCTURE	EA	\$ 10,000.00	2	\$ 20,000.00
506S-M60	STANDARD PRE-CAST MANHOLE W/PRE-CAST BASE, 60-INCH DIA.	EA	\$ 8,700.00	12	\$ 104,400.00
506S-JSW-4X4	JUNCITON BOX, 4-FT X 4-FT, INCLUDING ACCESS MANHOLE	EA	\$ 4,500.00	1	\$ 4,500.00
508S-IG-1X4	INLET, GRATE 1'x4'	EA	\$ 5,000.00	8	\$ 40,000.00
508S-IG-2X2	INLET, GRATE 2'x2'	EA	\$ 5,000.00	6	\$ 30,000.00
508S-5S	INLET, STANDARD-5	EA	\$ 4,000.00	4	\$ 16,000.00
508S-10S	INLET, STANDARD-10	EA	\$ 7,000.00	15	\$ 105,000.00
	SLOPED HEADWALL FOR 36" RCP	EA	\$ 4,000.00	2	\$ 8,000.00
510-ASD24	PIPE, 24" DIA. (ALL DEPTHS), INCLUDING EXCAVATION AND BACKFILL	LF	\$ 180.00	1,591	\$ 286,380.00
510-ASD18	PIPE, 18" DIA. (ALL DEPTHS), INCLUDING EXCAVATION AND BACKFILL	LF	\$ 135.00	422	\$ 56,970.00
510-ASD30	PIPE, 30" DIA. (ALL DEPTHS), INCLUDING EXCAVATION AND BACKFILL	LF	\$ 180.00	928	\$ 167,040.00
510-ASD36	PIPE, 36" DIA. (ALL DEPTHS), INCLUDING EXCAVATION AND BACKFILL	LF	\$ 260.00	1,177	\$ 306,020.00
591S-A12	ROCK RIPRAP D50=12"	SY	\$ 140.00	200	\$ 28,000.00
430 S-	POND OUTLET STRUCTURE	EA	\$ 10,000.00	2	\$ 20,000.00
			<b>SUBTOTAL:</b>	<b>\$</b>	<b>1,197,770.00</b>

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**DESCRIPTION**

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ITEM	ITEM DESCRIPTION	UNIT	UNIT PRICE <sup>1</sup>	Old Fitz	
				QUANTITY	COST

**SUMMARY OF ILLUMINATION QUANTITIES**

0416 6088	DRILL SHAFT (RDWY ILL POLE) (24 IN)	LF	\$ 247.50	56	\$ 13,860.00
0432 6001	RIPRAP (CONC)(4 IN)	CY	\$ 982.36	2	\$ 1,650.36
0610 7001	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE A)	EA	\$ 6,000.00	7	\$ 42,000.00
0610 7002	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE B)	EA	\$ 5,200.00	-	\$ -
0610 7003	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE D)	EA	\$ 5,200.00	-	\$ -
0610 7004	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE D)	EA	\$ 6,000.00	-	\$ -
610-	LED FLOOD ILLUMINATION ASSEMBLY (TYPE E)	EA	\$ 800.00	1	\$ 800.00
0618 6023	CONDT (PVC) (SCH 40) (2")	LF	\$ 18.70	4,164	\$ 77,866.80
0618 6049	CONDT (PVC) (SCH 80) (2") (CONC ENCSE)	LF	\$ 27.47	520	\$ 14,284.40
0620 6005	ELEC CONDR (NO.10) BARE	LF	\$ 1.71	-	\$ -
0620 6006	ELEC CONDR (NO.10) INSULATED	LF	\$ 3.00	-	\$ -
0620 6009	ELEC CONDR (NO.6) BARE	LF	\$ 2.75	3,500	\$ 9,625.00
0620 6010	ELEC CONDR (NO.6) INSULATED	LF	\$ 2.92	7,000	\$ 20,440.00
0624 6002	GROUND BOX TY A (122311)W/APRON	EA	\$ 1,549.71	3	\$ 4,649.13
0628 6144	ELC SRV TY D 120/240 060(NS)SS(E)PS(U)	EA	\$ 9,256.00	1	\$ 9,256.00
0628 6151	ELC SRV TY D 120/240 060(NS)SS(N)PS(U)	EA	\$ 8,497.00	-	\$ -
<b>SUBTOTAL:</b>					<b>\$ 194,431.69</b>

**SUMMARY OF LANDSCAPE QUANTITIES**

LANDSCAPE01	Existing Tree Removal	EA	\$ 800.00	17	\$ 13,600.00
LANDSCAPE02	New Street Trees - 4" Caliper	EA	\$ 2,500.00	134	\$ 335,000.00
LANDSCAPE03	Landscape Planting	SF	\$ 12.00	16,654	\$ 199,848.00
LANDSCAPE04	Hydroseeding	SF	\$ 0.40	43,051	\$ 17,220.40
LANDSCAPE05	Topsoil/ Fine Grading	CY	\$ 85.00	206	\$ 17,510.00
LANDSCAPE06	Mulch	CY	\$ 85.00	103	\$ 8,755.00
LANDSCAPE07	Irrigation System	LS	\$ 90,000.00	1	\$ 90,000.00
LANDSCAPE08	Rain Garden	CY	\$ 187.46	65	\$ 12,184.90
<b>SUBTOTAL:</b>					<b>\$ 694,118.30</b>

**SUMMARY OF CONSTRUCTION COSTS**

SUMMARY OF TRAFFIC CONTROL QUANTITIES	\$ 48,000.00	
SUMMARY OF REMOVAL QUANTITIES	\$ 279,901.00	
SUMMARY OF ROADWAY QUANTITIES	\$ 1,532,040.00	
SUMMARY OF SIGNING AND PAVEMENT MARKING QUANTITIES	\$ 76,006.00	
SUMMARY OF PEDESTRIAN QUANTITIES	\$ 367,440.00	
SUMMARY OF HARDSCAPE QUANTITIES	\$ 111,650.00	
SUMMARY OF DRAINAGE QUANTITIES	\$ 1,197,770.00	
SUMMARY OF ILLUMINATION QUANTITIES	\$ 194,431.69	
SUMMARY OF LANDSCAPE QUANTITIES	\$ 694,118.30	
<b>PROJECT SUBTOTAL:</b>		<b>\$ 4,501,356.99</b>

**MISCELLANEOUS ITEMS**

700S-TM	TOTAL MOBILIZATION PAYMENT	LS	10%	\$ 450,135.70
	TEMPORARY & PERMANENT EROSION CONTROL	LS	3%	\$ 135,040.71
	UTILITY RELOCATIONS AND ADJUSTMENTS <sup>2</sup>	LS	8%	\$ 360,108.56
	CONTINGENCY	LS	15%	\$ 675,203.55

<b>TOTAL CONSTRUCTION COST (CURRENT YEAR):</b>	<b>2023</b>		<b>\$ 6,121,845.51</b>
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<b>TOTAL CONSTRUCTION COST ANTICIPATED FOR 2024:</b>			<b>\$ 4,587,849.51</b>
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<b>TOTAL CONSTRUCTION COST (YEAR OF EXPENDITURE) ADJUSTED FOR INFLATION:</b>	<b>2024</b>	4%	<b>\$ 4,772,000.00</b>
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<b>TOTAL CONSTRUCTION COST ANTICIPATED FOR 2026:</b>			<b>\$ 1,533,996.00</b>
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<b>TOTAL CONSTRUCTION COST (YEAR OF EXPENDITURE) ADJUSTED FOR INFLATION:</b>	<b>2026</b>	4%	<b>\$ 1,726,000.00</b>
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<b>TOTAL CONSTRUCTION COST (MULTIPLE YEARS OF EXPENDITURE) ADJUSTED FOR INFLATION:</b>	<b>2024, 2026</b>		<b>\$ 6,498,000.00</b>
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**PROGRAM COSTS**

	CONSTRUCTION EASEMENTS <sup>3</sup>	LS	4%	\$ 259,920.00
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<b>GRAND TOTAL PROJECT COST:</b>				<b>\$ 6,757,920.00</b>
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1. Unit Prices based on TxDOT 3-month unit prices and Engineering Judgement.

2. Utility relocation costs may not be incurred under this project.

3. Two right-of-way acquisitions, drainage easements, and multiple temporary construction easements required. Any necessary funding would be negotiated by City.

4. Construction management, engineering, and inspection will be handled by City staff and are not included in this estimate

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				QUANTITY	COST

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0416 6088	DRILL SHAFT (RDWY ILL POLE) (24 IN)	LF	\$ 247.50	328	\$ 81,180.00
0610 7001	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE A)	EA	\$ 6,000.00	30	\$ 180,000.00
0610 7002	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE B)	EA	\$ 5,200.00	1	\$ 5,200.00
0610 7003	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE C)	EA	\$ 5,200.00	7	\$ 36,400.00
0610 7004	LED DECORATIVE ILLUMINATION ASSEMBLY (TYPE D)	EA	\$ 6,000.00	3	\$ 18,000.00
0620 6005	ELEC CONDR (NO.10) BARE	LF	\$ 1.71	145	\$ 247.95
0620 6006	ELEC CONDR (NO.10) INSULATED	LF	\$ 3.00	280	\$ 840.00
0620 6009	ELEC CONDR (NO.6) BARE	LF	\$ 2.75	5,026	\$ 13,821.50
0620 6010	ELEC CONDR (NO.6) INSULATED	LF	\$ 2.92	9,962	\$ 29,089.04
0624 6002	GROUND BOX TY A (122311)W/APRON	EA	\$ 1,549.71	3	\$ 4,649.13
0628 6144	ELC SRV TY D 120/240 060(NS)SS(E)PS(U)	EA	\$ 9,256.00	-	\$ -
0628 6151	ELC SRV TY D 120/240 060(NS)SS(N)PS(U)	EA	\$ 8,497.00	3	\$ 25,491.00
<b>SUBTOTAL:</b>				<b>\$</b>	<b>394,918.62</b>

<b>TOTAL CONSTRUCTION COST ANTICIPATED FOR 2026:</b>			<b>\$</b>	<b>394,918.62</b>
<b>TOTAL CONSTRUCTION COST (YEAR OF EXPENDITURE) ADJUSTED FOR INFLATION:</b>	<b>2026</b>	<b>4%</b>	<b>\$</b>	<b>445,000.00</b>

<b>GRAND TOTAL PROJECT COST WITH ADD ALTERNATE:</b>				<b>\$</b>	<b>7,202,920.00</b>
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