

**ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue****Alternative 1 - Narrow Median with Side Streets**

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS	1	\$600,000.00	\$600,000
301.01000	Subgrade Preparation	SY	148900	\$4.00	\$595,600
310.03255	Aggregate Base Course, 10 in Thick	TON	81000	\$45.00	\$3,645,000
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	90900	\$65.00	\$5,908,500
325.10375	ARAC Pavement (High Traffic)	TON	8300	\$90.00	\$747,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF	30000	\$15.00	\$450,000
340.01150	Single Curb, Type A, MAG Det 222	LF	24000	\$10.00	\$240,000
340.01210	Concrete Sidewalk, MAG Det 230	SF	148000	\$5.00	\$740,000
340.013XX	Concrete Curb Ramp	EA	48	\$2,500.00	\$120,000
340.01430	Driveway Entrance, Peoria Det PE-251-1	SF	820	\$12.00	\$9,840
350.01800	Remove Concrete Curb and Gutter	LF	11500	\$4.00	\$46,000
350.01900	Remove Sidewalk	SF	51500	\$3.00	\$154,500
351.5XXXX	Relocate Irrigation	LF	900	\$150.00	\$135,000
351.5XXXX	Relocate Irrigation Manhole	EA	2	\$12,000.00	\$24,000
351.5XXXX	Relocate Irrigation Structure	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate 12kV Power to Underground	LF	2600	\$400.00	\$1,040,000
351.5XXXX	Relocate Electric Transformer	EA	6	\$100,000.00	\$600,000
351.5XXXX	Relocate Electric Vault	EA	5	\$200,000.00	\$1,000,000
351.5XXXX	Adjust Electric Manhole	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate 12 Inch Water Line	LF	575	\$150.00	\$86,250
351.5XXXX	Relocate Private Well Site (106th Ave)	EA	1	\$2,000,000.00	\$2,000,000
351.5XXXX	Decommission Abandoned Private Well Site (104th Ave)	EA	1	\$50,000.00	\$50,000
430.XXXXX	Landscaping and Irrigation	LS	1	\$900,000.00	\$900,000
461.XXXXX	Signing and Striping	LS	1	\$500,000.00	\$500,000
471.6XXXX	Traffic Signal	EA	4	\$200,000.00	\$800,000
481.XXXXX	ITS Components	LS	1	\$1,100,000.00	\$1,100,000
505.01XXX	Bridge - New River Bridge	LS	1	\$3,650,000.00	\$3,650,000
505.01XXX	New River Bridge Aesthetics	LS	1	\$160,000.00	\$160,000
618.XXXXX	Storm Drain System	LS	1	\$3,165,000.00	\$3,165,000
(A)	IDENTIFIED ITEMS				\$28,666,690
(B)	UNIDENTIFIED ITEMS @	30%			\$8,601,000
(C)	SUBTOTAL ITEMS COST				\$37,267,690
(D)	TRAFFIC CONTROL @	5%			\$1,864,000
(E)	AZPDES @	2%			\$746,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$373,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$1,864,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$42,114,690
(J)	CONSTRUCTION CONTINGENCY @	5%			\$2,106,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$6,318,000
(L)	DESIGN @	8%			\$3,370,000
(M)	RIGHT-OF-WAY				\$4,300,000
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$16,094,000
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL PROJECT COST				\$58,208,690

**ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue****Alternative 2 - Narrow Median with U-Turns**

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS	1	\$600,000.00	\$600,000
301.01000	Subgrade Preparation	SY	141200	\$4.00	\$564,800
310.03255	Aggregate Base Course, 10 in Thick	TON	76800	\$45.00	\$3,456,000
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	86200	\$65.00	\$5,603,000
325.10375	ARAC Pavement (High Traffic)	TON	7900	\$90.00	\$711,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF	27500	\$15.00	\$412,500
340.01150	Single Curb, Type A, MAG Det 222	LF	24000	\$10.00	\$240,000
340.01210	Concrete Sidewalk, MAG Det 230	SF	136500	\$5.00	\$682,500
340.013XX	Concrete Curb Ramp	EA	46	\$2,500.00	\$115,000
340.01430	Driveway Entrance, Peoria Det PE-251-1	SF	820	\$12.00	\$9,840
350.01800	Remove Concrete Curb and Gutter	LF	11500	\$4.00	\$46,000
350.01900	Remove Sidewalk	SF	51500	\$3.00	\$154,500
351.5XXXX	Relocate Irrigation	LF	900	\$150.00	\$135,000
351.5XXXX	Relocate Irrigation Manhole	EA	2	\$12,000.00	\$24,000
351.5XXXX	Relocate Irrigation Structure	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate 12kV Power to Underground	LF	2600	\$400.00	\$1,040,000
351.5XXXX	Relocate Electric Transformer	EA	6	\$100,000.00	\$600,000
351.5XXXX	Relocate Electric Vault	EA	5	\$200,000.00	\$1,000,000
351.5XXXX	Adjust Electric Manhole	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate 12 Inch Water Line	LF	575	\$150.00	\$86,250
351.5XXXX	Relocate Private Well Site (106th Ave)	EA	1	\$2,000,000.00	\$2,000,000
351.5XXXX	Decommission Abandoned Private Well Site (104th Ave)	EA	1	\$50,000.00	\$50,000
430.XXXXX	Landscaping and Irrigation	LS	1	\$900,000.00	\$900,000
461.XXXXX	Signing and Striping	LS	1	\$500,000.00	\$500,000
471.6XXXX	Traffic Signal	EA	4	\$200,000.00	\$800,000
481.XXXXX	ITS Components	LS	1	\$1,100,000.00	\$1,100,000
505.01XXX	Bridge - New River Bridge	LS	1	\$3,650,000.00	\$3,650,000
505.01XXX	New River Bridge Aesthetics	LS	1	\$160,000.00	\$160,000
618.XXXXX	Storm Drain System	LS	1	\$3,030,000.00	\$3,030,000
(A)	IDENTIFIED ITEMS				\$27,870,390
(B)	UNIDENTIFIED ITEMS @	30%			\$8,362,000
(C)	SUBTOTAL ITEMS COST				\$36,232,390
(D)	TRAFFIC CONTROL @	5%			\$1,812,000
(E)	AZPDES @	2%			\$725,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$363,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$1,812,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$40,944,390
(J)	CONSTRUCTION CONTINGENCY @	5%			\$2,048,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$6,142,000
(L)	DESIGN @	8%			\$3,276,000
(M)	RIGHT-OF-WAY				\$3,100,000
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$14,566,000
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL PROJECT COST				\$55,510,390



ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue
Alternative 3 - Modified CSRA Typical Section with 3/4 Access at Unsignalized Locations

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS	1	\$600,000.00	\$600,000
301.01000	Subgrade Preparation	SY	146700	\$4.00	\$586,800
310.03255	Aggregate Base Course, 10 in Thick	TON	79800	\$45.00	\$3,591,000
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	89600	\$65.00	\$5,824,000
325.10375	ARAC Pavement (High Traffic)	TON	8200	\$90.00	\$738,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF	29000	\$15.00	\$435,000
340.01150	Single Curb, Type A, MAG Det 222	LF	25000	\$10.00	\$250,000
340.01210	Concrete Sidewalk, MAG Det 230	SF	136500	\$5.00	\$682,500
340.013XX	Concrete Curb Ramp	EA	48	\$2,500.00	\$120,000
340.01431	Driveway Entrance, Peoria Det PE-251-2	SF	1050	\$12.00	\$12,600
350.01800	Remove Concrete Curb and Gutter	LF	11500	\$4.00	\$46,000
350.01900	Remove Sidewalk	SF	51500	\$3.00	\$154,500
351.5XXXX	Relocate Irrigation	LF	900	\$150.00	\$135,000
351.5XXXX	Relocate Irrigation Manhole	EA	2	\$12,000.00	\$24,000
351.5XXXX	Relocate Irrigation Structure	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate 12kV Power to Underground	LF	2600	\$400.00	\$1,040,000
351.5XXXX	Relocate Electric Transformer	EA	6	\$100,000.00	\$600,000
351.5XXXX	Relocate Electric Vault	EA	5	\$200,000.00	\$1,000,000
351.5XXXX	Adjust Electric Manhole	EA	2	\$50,000.00	\$100,000
351.5XXXX	Relocate EPNG Valve and Inspection Site	EA	1	\$3,000,000.00	\$3,000,000
351.5XXXX	Relocate City of Peoria Lift Station L102	EA	1	\$1,000,000.00	\$1,000,000
351.5XXXX	Relocate 12 Inch Water Line	LF	575	\$150.00	\$86,250
351.5XXXX	Relocate Private Well Site (106th Ave)	EA	1	\$2,000,000.00	\$2,000,000
351.5XXXX	Decommission Abandoned Private Well Site (104th Ave)	EA	1	\$50,000.00	\$50,000
430.XXXXX	Landscaping and Irrigation	LS	1	\$1,310,000.00	\$1,310,000
461.XXXXX	Signing and Striping	LS	1	\$500,000.00	\$500,000
471.6XXXX	Traffic Signal	EA	4	\$200,000.00	\$800,000
481.XXXXX	ITS Components	LS	1	\$1,100,000.00	\$1,100,000
505.01XXX	Bridge - New River Bridge	LS	1	\$3,650,000.00	\$3,650,000
505.01XXX	New River Bridge Aesthetics	LS	1	\$160,000.00	\$160,000
618.XXXXX	Storm Drain System	LS	1	\$3,150,000.00	\$3,150,000
(A)	IDENTIFIED ITEMS				\$32,845,650
(B)	UNIDENTIFIED ITEMS @	30%			\$9,854,000
(C)	SUBTOTAL ITEMS COST				\$42,699,650
(D)	TRAFFIC CONTROL @	5%			\$2,135,000
(E)	AZPDES @	2%			\$854,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$427,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$2,135,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$48,250,650
(J)	CONSTRUCTION CONTINGENCY @	5%			\$2,413,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$7,238,000
(L)	DESIGN @	8%			\$3,861,000
(M)	RIGHT-OF-WAY				\$4,400,000
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$17,912,000
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL PROJECT COST				\$66,162,650

**ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue****Bike Lanes Along Northern**

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS		\$600,000.00	\$0
301.01000	Subgrade Preparation	SY	7500	\$4.00	\$30,000
310.03255	Aggregate Base Course, 10 in Thick	TON	4100	\$45.00	\$184,500
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	500	\$65.00	\$32,500
325.10375	ARAC Pavement (High Traffic)	TON	4600	\$90.00	\$414,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF		\$15.00	\$0
340.01150	Single Curb, Type A, MAG Det 222	LF		\$10.00	\$0
340.01210	Concrete Sidewalk, MAG Det 230	SF		\$5.00	\$0
340.013XX	Concrete Curb Ramp	EA		\$2,500.00	\$0
340.01430	Driveway Entrance, Peoria Det PE-251-1	SF		\$12.00	\$0
350.01800	Remove Concrete Curb and Gutter	LF		\$4.00	\$0
350.01900	Remove Sidewalk	SF		\$3.00	\$0
351.5XXXX	Relocate Irrigation	LF		\$150.00	\$0
351.5XXXX	Relocate Irrigation Manhole	EA		\$12,000.00	\$0
351.5XXXX	Relocate Irrigation Structure	EA		\$50,000.00	\$0
351.5XXXX	Relocate 12kV Power to Underground	LF		\$400.00	\$0
351.5XXXX	Relocate Electric Transformer	EA		\$100,000.00	\$0
351.5XXXX	Relocate Electric Vault	EA		\$200,000.00	\$0
351.5XXXX	Adjust Electric Manhole	EA		\$50,000.00	\$0
351.5XXXX	Relocate 12 Inch Water Line	LF		\$150.00	\$0
351.5XXXX	Relocate Private Well Site (106th Ave)	EA		\$2,000,000.00	\$0
351.5XXXX	Decommission Abandoned Private Well Site (104th Ave)	EA		\$50,000.00	\$0
430.XXXXX	Landscaping and Irrigation	LS		\$900,000.00	\$0
461.XXXXX	Signing and Striping	LS		\$500,000.00	\$0
471.6XXXX	Traffic Signal	EA		\$200,000.00	\$0
481.XXXXX	ITS Components	LS		\$1,100,000.00	\$0
505.01XXX	Bridge - New River Bridge	LS		\$3,650,000.00	\$0
505.01XXX	New River Bridge Aesthetics	LS		\$160,000.00	\$0
618.XXXXX	Storm Drain System	LS		\$3,165,000.00	\$0
(A)	IDENTIFIED ITEMS				\$661,000
(B)	UNIDENTIFIED ITEMS @	30%			\$199,000
(C)	SUBTOTAL ITEMS COST				\$860,000
(D)	TRAFFIC CONTROL @	5%			\$43,000
(E)	AZPDES @	2%			\$18,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$9,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$43,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$973,000
(J)	CONSTRUCTION CONTINGENCY @	5%			\$49,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$146,000
(L)	DESIGN @	8%			\$78,000
(M)	RIGHT-OF-WAY				
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$273,000
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL BIKE LANE COST				\$1,246,000

Estimated total \$56,962,690

**ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue****Augusta Avenue Extension**

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS	1	\$10,000.00	\$10,000
301.01000	Subgrade Preparation	SY	2800	\$4.00	\$11,200
310.03255	Aggregate Base Course, 10 in Thick	TON	1600	\$45.00	\$72,000
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	1700	\$65.00	\$110,500
325.10375	ARAC Pavement (High Traffic)	TON	200	\$90.00	\$18,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF	1631	\$15.00	\$24,465
340.01210	Concrete Sidewalk, MAG Det 230	SF	7256	\$5.00	\$36,280
340.013XX	Concrete Curb Ramp	EA	2	\$2,500.00	\$5,000
461.XXXXX	Signing and Striping	LS	1	\$5,000.00	\$5,000
618.XXXXX	Storm Drain System	LS	1	\$86,800.00	\$86,800
(A)	IDENTIFIED ITEMS				\$379,245
(B)	UNIDENTIFIED ITEMS @	30%			\$114,000
(C)	SUBTOTAL ITEMS COST				\$493,245
(D)	TRAFFIC CONTROL @	5%			\$25,000
(E)	AZPDES @	2%			\$10,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$5,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$25,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$558,245
(J)	CONSTRUCTION CONTINGENCY @	5%			\$28,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$84,000
(L)	DESIGN @	8%			\$45,000
(M)	RIGHT-OF-WAY				\$838,596
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$995,596
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL PROJECT COST				\$1,553,841

**ENGINEER'S ESTIMATE TT0600 - Northern Parkway: Agua Fria River to 99th Avenue****Royal Palm Road (108 to 107) Extension**

ITEM	DESCRIPTION	UNIT	QTY	UNIT COST	EXTENDED AMOUNT
205.01XXX	Earthwork	LS	1	\$10,000.00	\$10,000
301.01000	Subgrade Preparation	SY	2800	\$4.00	\$11,200
310.03255	Aggregate Base Course, 10 in Thick	TON	1500	\$45.00	\$67,500
321.01202	Asphalt Concrete Pavement (Superpave 1/2 in Mix, High Traffic)	TON	1600	\$65.00	\$104,000
325.10375	ARAC Pavement (High Traffic)	TON	200	\$90.00	\$18,000
340.01110	Vertical Curb & Gutter, MAG Det 220, Type A, H=6"	LF	1329	\$15.00	\$19,935
340.01210	Concrete Sidewalk, MAG Det 230	SF	8235	\$5.00	\$41,175
340.013XX	Concrete Curb Ramp	EA	2	\$2,500.00	\$5,000
350.01800	Remove Concrete Curb and Gutter	LF	93	\$4.00	\$372
461.XXXXX	Signing and Striping	LS	1	\$5,000.00	\$5,000
618.XXXXX	Storm Drain System	LS	1	\$80,500.00	\$80,500
(A)	IDENTIFIED ITEMS				\$362,682
(B)	UNIDENTIFIED ITEMS @	30%			\$109,000
(C)	SUBTOTAL ITEMS COST				\$471,682
(D)	TRAFFIC CONTROL @	5%			\$24,000
(E)	AZPDES @	2%			\$10,000
(F)	ENVIRONMENTAL MITIGATION MEASURES	1%			\$5,000
(G)	MOBILIZATION / DEMOBILIZATION @	5%			\$24,000
(H)	EQUIPMENT / MATERIAL COST	Lump Sum	1		\$0
(I)	TOTAL CONSTRUCTION COST				\$534,682
(J)	CONSTRUCTION CONTINGENCY @	5%			\$27,000
(K)	CONSTRUCTION MANAGEMENT @	15%			\$81,000
(L)	DESIGN @	8%			\$43,000
(M)	RIGHT-OF-WAY				\$397,511
(N)	UTILITY RELOCATION	Line Items			
(O)	IMPLEMENTATION SEGMENT BREAKOUT ADJUSTMENT @	0%			\$0
(P)	SUBTOTAL OTHER PROJECT COST				\$548,511
(Q)	MCDOT IN-HOUSE COSTS @				\$0
(R)	TOTAL PROJECT COST				\$1,083,193