

**METRO AIR PARK
2020 SUPPLEMENT TO THE
PUBLIC FACILITIES MASTER PLAN**

June 2, 2020

**Originally Adopted by the
County of Sacramento Board of Supervisors
on September 26, 2000**

Last Amended on December 11, 2007

TABLE OF CONTENTS

Section		Pages
D	Roadway Projects	1 - 43
	MP-1.2	
	MP-2	
	MP-3	
	MP-4	
	EB-1.2	
	EB-2	
	EB-4	
	EB-5	
	ER & EB Paving	
	ER-1	
	ER-2	
	ER-3	
	ER-4	
	PLR-1	
	PLR-1.5a	
	PLR-1.5b	
	PLR-2	
	PLR-3	
	LTR-1	
	MW-1	
	RA-1 (East)	
	RA-1 (West)	
	DPR-1	
	SBR-2	
E	Freeway Projects	44 - 52
	I5-1	
	I5-2a	
	I5-2b	
	I5-3	
	I5-4	
	I5-5	

TABLE OF CONTENTS

Section		Pages
	SR99-2	
	SR99-4	
	SR99-6	
F	On-Site Drainage Projects	53 - 55
	DRN-10	
	DRN-11.1	
	DRN-11.2	
G	Off-Site Drainage Projects	56 - 59
	RD1000-2	
	RD1000-3	
	RD1000-6	
	RD1000-7	
H	Sewer Projects	60
	SWR-4	
I	Water Projects	61
	WTR-7	
J	Transit Projects	62 - 64
	T-1	
	T-2	
	T-3	
K	Fire Service Projects	65 - 66
	FS-1	
	FS-2	
L	Advanced Funding Cost	67

Section D
Roadway Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Metro Parkway Surface Improvements
 Phase 2
 MP-1.2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(2 Lanes, Width = 24' - I-5 to 600' north of Elkhorn Blvd., L = 3,100 LF)					
1)	Clearing & Grubbing	94,400	SF	\$0.13	\$12,272.00
2)	Excavation	6,200	CY	\$10.00	\$62,000.00
3)	7"AC, 14" AB, & 12" Chemical Treated	61,400	SF	\$7.08	\$434,712.00
4)	7.5"AC, 14" AB, & 12" Lime Treated	13,000	SF	\$8.44	\$109,720.00
5)	7.5"AC, 14" AB, & 12" Chem & Lime Treated (Exterior Paving at Elkhorn Boulevard)	20,000	SF	\$8.44	\$168,800.00
6)	Sidewalk at Signalized Intersection	1,920	SF	\$10.00	\$19,200.00
7)	Concrete Caps on Right Turn Medians (Free right turn median at EB)	140	SF	\$5.00	\$700.00
8)	Monument Signs and Landscaping	6	EA	\$100,000.00	\$600,000.00
9)	Roadside Ditch	6,200	LF	\$3.50	\$21,700.00
10)	Striping (4-Lane)	6,200	LF	\$7.50	\$46,500.00
11)	Signalizing at Elkhorn Blvd	1	LS	\$350,000.00	\$350,000.00
Subtotal MP-1.2					\$1,825,604.00
*Costs include Slurry Seal					
	Engineering (Private)	25%			\$456,401.00
	Contingencies (Private)	36%			\$661,339.65
Total MP-1.2					\$2,943,344.65
	Escalate from 2017 to 2019	12%			\$353,201.36
					\$3,296,546.01
	Escalate from 2019 to 2020	5%			\$164,827.30
Total MP - 1.2					\$3,461,373.31
Metro Air Park PFFP Table A3 MP-1.2					\$3,461,374.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Metro Parkway Surface Improvements
 Phase 3
 MP-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(2 Lanes, Width = 24' - 600 LF North of Elkhorn Boulevard to Road "A", L = 8,100 LF) (Median Landscaping, 600 LF North of Elkhorn Boulevard to Road "A" and I-5 to 600 LF South of Elkhorn Boulevard, Width = 12', L = 10,000 LF)					
1)	Clearing & Grubbing	217,600	SF	\$0.13	\$28,288.00
2)	Excavation	14,500	CY	\$10.00	\$145,000.00
3)	7.5"AC, 14" AB, & 12" Chem & Lime Treated	194,400	SF	\$7.34	\$1,426,896.00
4)	7.5"AC, 14" AB, & 12" Chem & Lime Treated (Transition Pavement)	23,200	SF	\$8.44	\$195,808.00
5)	Pavement Sawcut	1,700	LF	\$2.20	\$3,740.00
6)	Pavement Removal	14,400	SF	\$0.80	\$11,520.00
7)	Roadside Ditch	17,400	LF	\$3.50	\$60,900.00
8)	Median Landscaping	69,000	SF	\$10.00	\$690,000.00
9)	Striping	11,100	LF	\$7.50	\$83,250.00
Subtotal MP-2					\$2,645,402.00
		Engineering (Private)	25%	\$661,350.50	
		Contingencies (Private)	14.22%	\$376,110.03	
Total MP-2					\$3,682,862.53
		Escalate from 2017 to 2019	12%	\$441,943.50	
					\$4,124,806.03
		Escalate from 2019 to 2020	5%	\$206,240.30	
Total MP-2					\$4,331,046.33
Metro Air Park PFFP Table A3 - MP-2					\$4,331,047.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Metro Parkway Surface Improvements
 Phase 5
 MP-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Clearing & Grubbing	56,900	SF	\$0.13	\$7,397.00
2)	Excavation	3,200	CY	\$10.00	\$32,000.00
3)	7.5" AC & 28" AB (Exterior Paving at Road "A")	5,100	SF	\$9.55	\$48,705.00
4)	7.5" AC, 9" AB, & 18" Lime Treated (Transitional Paving at Elverta Road)	51,800	SF	\$7.14	\$369,852.00
5)	Curb and Gutter at Signalized Intersection	790	LF	\$33.00	\$26,070.00
6)	Concrete Caps on Right Turn Medians at Elverta Road	68	SF	\$5.00	\$340.00
7)	Sidewalk at Signalized Intersection	5,760	SF	\$10.00	\$57,600.00
8)	Signalization Interconnect	3,000	LF	\$15.00	\$45,000.00
9)	Signalization at Road "A"	1	LS	\$275,000.00	\$275,000.00
10)	Signalization at Road "D"	1	LS	\$200,000.00	\$200,000.00
11)	Signalization at Road "F"	1	LS	\$275,000.00	\$275,000.00
12)	Signalization at Road "G"	1	LS	\$275,000.00	\$275,000.00
13)	Signalization at Elverta Road	1	LS	\$250,000.00	\$250,000.00
14)	Signalization at Meister Way	1	LS	\$275,000.00	\$275,000.00
Subtotal MP-3					\$2,136,964.00
*Costs include Slurry Seal and Restriping					
	Engineering (Private)	25%			\$534,241.00
	Contingencies (Private)	15%			\$320,544.60
Total MP-3					\$2,991,749.60
	Escalate from 2017 to 2019	12%			\$359,009.95
					\$3,350,759.55
	Escalate from 2019 to 2020	5%			\$167,537.98
Total MP-3					\$3,518,297.53
Metro Air Park PFFP Table A3 - MP-3					\$3,518,298.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Metro Parkway Surface Improvements
 Phase 6
 MP-4

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Median Landscaping, Width = 34', L = 2,135 LF)					
1)	Median Landscaping	72,590	SF	\$10.00	\$725,900.00
2)	Signalization Interconnect	12,000	LF	\$15.00	\$180,000.00
3)	Signalization at S. Bayou Road	1	LS	\$200,000.00	\$200,000.00
Subtotal MP-4					\$1,105,900.00
*Costs include Slurry Seal and Restriping					
	Engineering (Private)	25%			\$276,475.00
	Contingencies (Private)	13.03%			\$144,109.83
Total MP-4					\$1,526,484.83
	Escalate from 2017 to 2019	12%			\$183,178.18
					\$1,709,663.01
	Escalate from 2019 to 2020	5%			\$85,483.15
Total MP-4					\$1,795,146.16
Metro Air Park PFFP Table A3 - MP-4					\$1,795,144.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Elkhorn Boulevard Surface Improvements
 Phase 2
 EB-1.2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Metro Parkway Intersection)					
1)	Clearing & Grubbing	20,000	SF	\$0.13	\$2,600.00
2)	Excavation	2,500	CY	\$10.00	\$25,000.00
3)	6.5" AC & 24" AB (Exterior paving at Metro Air Parkway)	20,000	SF	\$8.03	\$160,600.00
4)	Monument Signs and Landscaping	1	EA	\$100,000.00	\$100,000.00
Subtotal EB-1.2					\$288,200.00
	Engineering (Private)	25%			\$72,050.00
	Contingencies (Private)	15%			\$43,230.00
	Additional Contingency (if needed)				\$342,754.00
Total EB-1.2					\$746,234.00
	Escalate from 2017 to 2019	12%			\$89,548.08
					\$835,782.08
	Escalate from 2019 to 2020	5%			\$41,789.10
Total EB-1.2					\$877,571.18
Metro Air Park PFFP Table A3 EB-1.2					\$877,571.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elkhorn Boulevard Surface Improvements
Phase 3
EB-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(2 Lanes, Width = 22' - Metro Parkway to Lone Tree Road, L = 3,400 LF 1 Lane (AC Overlay), Width = 11' - 600' West of Lone Tree Road to Lone Tree Road)					
1)	Clearing & Grubbing	106,100	SF	\$0.13	\$13,793.00
2)	Excavation	5,300	CY	\$10.00	\$53,000.00
3)	7" AC, 9" AB, & 18" Lime Treated	74,800	SF	\$6.89	\$515,372.00
4)	7" AC, 9" AB, & 18" Lime Treated (Transitional Paving)	26,000	SF	\$7.92	\$205,920.00
5)	7" AC, 9" AB, & 18" Lime Treated (Exterior Paving at Lone Tree Road)	5,300	LF	\$7.92	\$41,976.00
6)	AC Overlay	6,600	SF	\$4.03	\$26,598.00
7)	Roadside Ditch	6,800	SF	\$3.50	\$23,800.00
8)	Striping	4,600	LF	\$7.50	\$34,500.00
9)	Pavement Sawcut	1,200	LS	\$2.20	\$2,640.00
10)	Signalization at Road "F"	1	LS	\$275,000.00	\$275,000.00
11)	Signalization interconnect	1,500	LS	\$15.00	\$22,500.00
12)	Monument at Lone Tree Road	1	LS	\$100,000.00	\$100,000.00
Subtotal EB-2					\$1,315,099.00
*Costs include Slurry Seal					
	Engineering (Private)	25%			\$328,774.75
	Contingencies (Private)	4.35%			\$57,259.41
Total EB-2					\$1,701,133.16
	Escalate from 2017 to 2019	12%			\$204,135.98
					\$1,905,269.14
	Escalate from 2019 to 2020	5%			\$95,263.46
Total EB-2					\$2,000,532.60
Metro Air Park PFFP Table A3 EB-2					\$2,000,539.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elkhorn Boulevard Surface Improvements
Phase 5
EB-4

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Median Landscaping, Width = 32', L = 1,475 LF; Width = 12', L = 320 LF)					
1)	Clearing & Grubbing	21,000	SF	\$0.13	\$2,730.00
2)	Sidewalk at Signalized Intersection	3,800	SF	\$10.00	\$38,000.00
3)	Landscaping	25,000	SF	\$7.50	\$187,500.00
4)	Median Landscaping	51,040	SF	\$10.00	\$510,400.00
5)	Curb and Gutter at Signalized Intersection	810	LF	\$33.00	\$26,730.00
6)	Signalization Interconnect	6,600	LF	\$15.00	\$99,000.00
7)	Signalization at Power Line Road	1	LS	\$200,000.00	\$200,000.00
8)	Signalization at Lone Tree Road	1	LS	\$275,000.00	\$275,000.00
9)	Monument at Power Line Road	1	EA	\$100,000.00	\$100,000.00
Subtotal EB-4					\$1,439,360.00
*Costs include Slurry Seal and Restriping					
	Engineering (Private)	25%			\$359,840.00
	Contingencies (Private)	9.46%			\$136,117.40
	Total EB-4				\$1,935,317.40
	Escalate from 2017 to 2019	12%			\$232,238.09
					\$2,167,555.48
	Escalate from 2019 to 2020	5%			\$108,377.77
	Total EB-4				\$2,275,933.26
	Metro Air Park PFFP Table A3 - EB-4				\$2,275,933.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elkhorn Boulevard Surface Improvements
Phase 5
EB-5

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Lone Tree Road to SR99, L = 4,000 LF) (2 Lanes, Width = 18')					
1)	Clearing & Grubbing	72,000	SF	\$0.13	\$9,360.00
2)	Excavation	3,700	CY	\$15.00	\$55,500.00
3)	7.5" AC , 9" AB, & 18" Lime Treated	72,000	SF	\$6.84	\$492,480.00
4)	Roadside Ditch	8,000	LF	\$3.50	\$28,000.00
5)	Striping	8,000	LF	\$7.50	\$60,000.00
6)	Pavement Sawcut	8,000	LF	\$2.20	\$17,600.00
Subtotal EB-5					\$662,940.00
		Engineering (Public)	7.63%		\$50,549.18
		Contingencies (Public)	5%		\$33,147.00
Total EB-5					\$746,636.18
Greenbriar Farms constructing 50%					\$373,318.09
Total EB-5					\$373,318.09
		Escalate from 2006 to 2018	38.60%		\$144,100.78
					\$517,418.87
		Escalate from 2018 to 2020	5%		\$25,870.94
Total EB-5					\$543,289.81
Metro Air Park PFFP Table A3 EB-5					\$543,263.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Elverta Road and Elkhorn Blvd Overlay
 Phase 1C
 ER & EB Paving

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(2 Lanes, Overlay Lone Tree Road to SR99, L = 4,500 LF)					
1)	Overlay paving of Elverta Road and Elkhorn Boulevard MAP Share - 1/3 or 33.33%	1	LS	\$667,800.00	\$667,800.00
					\$222,600.00
Subtotal ER & EB Paving					\$222,600.00
Total ER & EB Paving					\$222,600.00
Metro Air Park PFFP Table A3 ER & EB Paving					\$222,600

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elverta Road Surface Improvements
Phase 4
ER-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
(Power Line Road to Lone Tree Road, L = 5,300 LF)					
(2 Lanes, Overlay Width = 26'; AC & AB Width = 9' - Metro Parkway to Lone Tree Road, L = 1,680 LF)					
<hr/>					
1)	Clearing & Grubbing	33,400	SF	\$0.13	\$4,342.00
2)	Excavation	1,500	CY	\$10.00	\$15,000.00
3)	6.5" AC, 8" AB, & 15" Lime Treated	15,000	SF	\$7.15	\$107,250.00
4)	6.5" AC, 8" AB, & 15" Lime Treated	2,600	SF	\$7.15	\$18,590.00
5)	(Exterior Paving at Power Line Road)				
6)	6.5" AC, 8" AB, & 15" Lime Treated	15,800	SF	\$7.15	\$112,970.00
7)	(Exterior Paving at Metro Air Parkway)				
8)	AC Overlay	137,800	SF	\$3.76	\$518,128.00
9)	Power Pole Relocation	19	EA	\$15,000.00	\$285,000.00
10)	Roadside Ditch	10,600	LF	\$3.50	\$37,100.00
11)	Striping	10,600	LF	\$7.50	\$79,500.00
12)	Street Sign	5	EA	\$400.00	\$2,000.00
Subtotal ER-1					\$1,179,880.00
<hr/>					
	Engineering (Private)	25%			\$294,970.00
	Contingencies (Private)	23.47%			\$276,953.23
13)	ROW Acquisition	1	AC	\$25,000.00	\$25,000.00
Total ER-1					\$1,776,803.23
	Escalate from 2017 to 2019	12%			\$213,216.39
					\$1,990,019.62
	Escalate from 2019 to 2020	5%			\$99,500.98
					\$2,089,520.60
Subtotal ER-1 Drainage					\$133,440.72
Subtotal ER-1 Sewer					\$346,361.40
Total ER-1					\$2,569,322.72
Metro Air Park PFFP Table A3 ER-1					\$2,569,356.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Elverta Road Drainage Improvements
 Phase 4
 ER-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Metro Air Parkway to Lone Tree Road)					
1)	12" Storm Drain	440	LF	\$75.00	\$33,000.00
2)	15" Storm Drain	475	LF	\$78.00	\$37,050.00
3)	48" Manhole	2	EA	\$5,500.00	\$11,000.00
Subtotal ER-1					\$81,050.00
		Engineering (Private)	25%		\$20,262.50
		Contingencies (Private)	15%		\$12,157.50
Total ER-1 Drainage					\$113,470.00
		Escalate from 2017 to 2019	12%		\$13,616.40
					\$127,086.40
		Escalate from 2019 to 2020	5%		\$6,354.32
Total ER-1 Drainage					\$133,440.72
Metro Air Park PFFP Table A3 ER-1 Drainage					\$133,440.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Elverta Road Sewer Improvements
 Phase 4
 ER-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Metro Air Parkway to Lone Tree Road, L = 1,630 LF)					
1)	8" Sanitary Sew 14'-18' Deep	1,650	LF	\$100.00	\$165,000.00
2)	48" Manhole 14'-18' Deep	6	EA	\$6,500.00	\$39,000.00
3)	Service Stubs	1	EA	\$6,375.00	\$6,375.00
Subtotal ER-1					\$210,375.00
		Engineering (Private)	25%		\$52,593.75
		Contingencies (Private)	15%		\$31,556.25
Total ER-1 Sewer					\$294,525.00
		Escalate from 2017 to 2019	12%		\$35,343.00
					\$329,868.00
		Escalate from 2019 to 2020	5%		\$16,493.40
Total ER-1 Sewer					\$346,361.40
Metro Air Park PFFP Table A3 - ER-1					\$346,361.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elverta Road Surface Improvements
Phase 4
ER-2

Item	Description	Quantity	Unit	Unit Price	Total
May 2020					
(Lone Tree Road to SR99, L = 4,200 LF)					
(2 Lanes, Overlay Width = 26'; AC & AB Width = 9' -Lone Tree Road to SR99, L = 4,200 LF)					
1)	Clearing & Grubbing	37,800	SF	\$0.13	\$4,914.00
2)	Excavation	1,900	CY	\$15.00	\$28,500.00
3)	7" AC, 9" AB, & 18" Lime Treated	37,800	SF	\$7.26	\$274,428.00
4)	AC Overlay	109,200	SF	\$3.31	\$361,452.00
5)	Power Pole Relocation	21	EA	\$15,000.00	\$315,000.00
6)	Roadside Ditch	8,400	LF	\$3.50	\$29,400.00
7)	Striping	4,200	LF	\$7.50	\$31,500.00
8)	Street Sign	2	EA	\$400.00	\$800.00
9)	Canal Crossing	1	EA	\$65,000.00	\$65,000.00
10)	Cross Culverts	5	EA	\$3,000.00	\$15,000.00
Subtotal ER-2					\$1,125,994.00
Engineering (Public) 25%					\$281,498.50
Contingencies (Public) 10.12%					\$113,894.29
Total ER-2					\$1,521,386.79
Escalate from 2006 to 2018 38.60%					\$587,255.30
Total ER-2					\$2,108,642.10
Escalate from 2018 to 2020 5%					\$105,432.10
Total ER-2					\$2,214,074.20
Metro Air Park PFFP Table A3 ER-2					\$2,214,049.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elverta Road Surface Improvements
Phase 5
ER-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Lone Tree Road to SR99, L = 4,200 LF) (2 Lanes, Width = 23')					
1)	Clearing & Grubbing	102,300	SF	\$0.13	\$13,299.00
2)	Excavation	5,100	CY	\$42.00	\$214,200.00
3)	7" AC, 9" AB, & 18" Lime Treated	96,600	SF	\$5.51	\$532,266.00
4)	7" AC, 9" AB, & 18" Lime Treated (Interior Paving at Lone Tree Road)	5,300	SF	\$5.51	\$29,203.00
5)	7" AC, 9" AB, & 18" Lime Treated (Exterior Paving at Lone Tree Road)	400	SF	\$5.51	\$2,204.00
6)	Type 2 Curb & Gutter	80	LF	\$24.20	\$1,936.00
7)	Sidewalk	480	SF	\$5.50	\$2,640.00
8)	Left Turn Pocket Median	180	LF	\$21.00	\$3,780.00
9)	Roadside Ditch	8,400	LF	\$2.20	\$18,480.00
10)	Striping	4,200	LF	\$7.15	\$30,030.00
11)	Signalization at Lone Tree Road	1	EA	\$154,000.00	\$154,000.00
Subtotal ER-3					\$1,002,038.00
*Costs include Slurry Seal					
	Engineering (Public)	25%			\$250,509.50
	Contingencies (Public)	33%			\$330,672.54
12)	ROW Acquisition	1.4	AC	\$50,000.00	\$70,000.00
Total ER-3					\$1,653,220.04
	Escalate from 2006 to 2018	38.60%			\$638,142.94
					\$2,291,362.98
	Escalate from 2018 to 2020	5%			\$114,568.15
Total ER-3					\$2,405,931.12
Metro Air Park PFFP Table A3 - ER-3					\$2,419,297.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Elverta Road Surface Improvements
Phase 6
ER-4

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Metro Parkway to Lone Tree Road, L = 5,300 LF)					
(1 Lane, Width = 22', Metro Parkway to Lone Tree Road, L = 1,700 LF)					
1)	Clearing & Grubbing	43,300	SF	\$0.13	\$5,629.00
2)	Excavation	2,300	CY	\$10.00	\$23,000.00
3)	6.5" AC, 8" AB, & 15" Lime Treated	37,400	SF	\$7.15	\$267,410.00
4)	6.5" AC & 26" AB (Exterior Paving at Metro Air Parkway)	4,400	SF	\$8.62	\$37,928.00
5)	6.5" AC & 26" AB (Exterior Paving at Lone Tree Road)	1,500	SF	\$8.62	\$12,930.00
6)	Left Turn Pocket Median	360	LF	\$33.00	\$11,880.00
7)	Striping	5,300	LF	\$7.50	\$39,750.00
8)	Signalization Interconnect	3,900	LF	\$15.00	\$58,500.00
9)	Pavement Sawcut	5,300	LF	\$2.20	\$11,660.00
10)	Roadside Ditch	1,700	LF	\$3.50	\$5,950.00
Subtotal ER-4					\$474,637.00
*Costs include Slurry Seal					
		Engineering (Private)	25%		\$118,659.25
		Contingencies (Private)	15%		\$71,195.55
Total ER-4					\$664,491.80
		Escalate from 2017 to 2019	12%		\$79,739.02
					\$744,230.82
		Escalate from 2019 to 2020	5%		\$37,211.54
Total ER-4					\$781,442.36
Metro Air Park PFFP Table A3 ER-4					\$781,443.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Surface Improvements
Phase 3
PLR-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(I-5 Overcrossing to Elkhorn Boulevard, L = 1,700LF) (2 Lanes, Overlay Width = 40', AC & AB Width = 0' to 5' I-5 Overcrossing to Road "B", L = 500 LF) 2 Lanes, Overlay Width = 34'; AC & AB Width = 11' Road "B" to Elkhorn Boulevard, L = 1,200 LF)					
1)	Clearing & Grubbing	14,450	SF	\$0.13	\$1,878.50
2)	Excavation	700	CY	\$10.00	\$7,000.00
3)	6" AC, 9" AB, & 12" Lime Treated	14,450	SF	\$6.72	\$97,104.00
4)	Type 2 Curb & Gutter	800	LF	\$33.00	\$26,400.00
5)	AC Overlay	60,800	SF	\$3.76	\$228,608.00
6)	Street Lighting	17	EA	\$5,500.00	\$93,500.00
7)	Power Pole Relocation	22	EA	\$15,000.00	\$330,000.00
8)	Street Sign	9	EA	\$400.00	\$3,600.00
9)	Striping	1,710	LF	\$7.50	\$12,825.00
10)	Striping	3,400	LF	\$7.50	\$25,500.00
11)	Roadside Ditch	3,400	LF	\$3.50	\$11,900.00
Subtotal PLR-1					\$838,315.50
		Engineering (Private)	25%		\$209,578.88
		Contingencies (Private)	15%		\$125,747.33
Total PLR-1					\$1,173,641.70
		Escalate from 2017 to 2019	12%		\$140,837.00
					\$1,314,478.70
		Escalate from 2019 to 2020	5%		\$65,723.94
					\$1,380,202.64
Total PLR-1 Water					\$226,215.36
Total PLR-1					\$1,606,418.00
Metro Air Park PFFP Table A3 - PLR-1					\$1,606,418.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Water Improvements
Phase 3
PLR-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road "B" to Elkhorn Boulevard, L = 1,200 LF)					
1)	12" Water Main Including Fire Hydrants	1,200	LF	\$93.00	\$111,600.00
2)	Service Stubs/Crossings	3	EA	\$8,600.00	\$25,800.00
Subtotal PLR-1					\$137,400.00
	Engineering (Private)	25%			\$34,350.00
	Contingencies (Private)	15%			\$20,610.00
	Total PLR-1 Water				\$192,360.00
	Escalate from 2017 to 2019	12%			\$23,083.20
					\$215,443.20
	Escalate from 2019 to 2020	5%			\$10,772.16
	Total PLR-1 Water				\$226,215.36
	Metro Air Park PFFP Table A3 PLR-1 Water				\$226,215.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Surface Improvements
Phase 2
PLR-1.5a

May 2020

Item	Description	Quantity	Unit	Unit Price	Total	
(Skyking to Road D, L = 6,100 LF (2 Lanes, Width = 34') (11'n/b, 12' TWLTL, 11' s/b)						
1)	Clearing & Grubbing	700,000	SF	\$0.13	\$91,000.00	
2)	Excavation	30,000	CY	\$10.00	\$300,000.00	
3)	6.5" AC, 8" AB, & 15" Lime Treated	490,000	SF	\$5.91	\$2,895,900.00	
4)	6" AC, 9" AB, & 12" Lime Treated	160,000	SF	\$6.10	\$976,000.00	
5)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elverta Road)	5,200	SF	\$7.02	\$36,504.00	
6)	6" AC, 8" AB, & 15" Lime Treated (Exterior Paving at Meister Way)	8,500	SF	\$7.15	\$60,775.00	
7)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elkhorn Boulevard)	13,000	SF	\$6.72	\$87,360.00	
9)	Street Sign	20	EA	\$400.00	\$8,000.00	
10)	Striping	13,000	LF	\$7.50	\$97,500.00	
Subtotal PLR-1.5a					\$4,553,039.00	
Engineering (Private)					26%	\$1,192,440.91
Contingencies (Private)					15.00%	\$682,955.85
Total PLR1.5a					\$6,428,435.76	
Escalate from 2017 to 2019					12%	\$771,412.29
\$7,199,848.06						
Escalate from 2019 to 2020					5%	\$359,992.40
\$7,559,840.46						
Subtotal PLR-1.5a Drainage						\$1,365,007.00
Total PLR1.5a						\$8,924,847.46
Metro Air Park PFFP Table A3 PLR1.5a						\$8,925,000.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Drainage Improvements
Phase 2
PLR-1.5a

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
Skyking Road to Road D (2 Lanes, Width = 34') (11'/12' TWLTL/11')					
Powerline Road					
1)	Storm Drain Stub	6	EA	\$9,350.00	\$56,100.00
2)	48" Manhole	20	EA	\$5,500.00	\$110,000.00
3)	60" Manhole	6	EA	\$7,000.00	\$42,000.00
4)	60" Type A Saddle Manhole	4	EA	\$5,000.00	\$20,000.00
5)	12" Storm Drain	325	LF	\$75.00	\$24,375.00
7)	21" Storm Drain	1,500	LF	\$88.00	\$132,000.00
8)	24" Storm Drain	1,700	LF	\$95.00	\$161,500.00
10)	30" Storm Drain	2,370	LF	\$75.00	\$177,750.00
11)	36" Storm Drain	1,250	LF	\$85.00	\$106,250.00
Subtotal PLR-1.5a					\$829,975.00
		Engineering (Private)	25%		\$207,493.75
		Contingencies (Private)	15%		\$123,251.29
Total PLR1.5a Drainage					\$1,160,720.04
		Escalate from 2017 to 2019	12%		\$139,286.40
					\$1,300,006.44
		Escalate from 2019 to 2020	5%		\$65,000.32
Total PLR-1.5a Drainage					\$1,365,006.76
Metro Air Park PFFP Table A3 PLR1.5a Drainage					\$1,365,000.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Surface Improvements
Phase 3
PLR-1.5b

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road D to Road A, L = 2,300 LF)					
(2 Lanes, Width = 34') (11'n/b, 12' TWLTL, 11' s/b)					
1)	Clearing & Grubbing	300,000	SF	\$0.13	\$39,000.00
2)	Excavation	12,000	CY	\$10.00	\$120,000.00
3)	6.5" AC, 8" AB, & 15" Lime Treated	163,500	SF	\$5.91	\$966,285.00
4)	6" AC, 9" AB, & 12" Lime Treated	75,000	SF	\$6.10	\$457,500.00
5)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elverta Road)	2,300	SF	\$7.02	\$16,146.00
6)	6" AC, 8" AB, & 15" Lime Treated (Exterior Paving at Meister Way)	3,400	SF	\$7.15	\$24,310.00
7)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elkhorn Boulevard)	5,800	SF	\$6.72	\$38,976.00
9)	Street Sign	18	EA	\$400.00	\$7,200.00
10)	Striping	5,000	LF	\$7.50	\$37,500.00
Subtotal PLR1.5b					\$1,706,917.00
		Engineering (Private)	26%		\$447,041.56
		Contingencies (Private)	15%		\$256,841.51
Total PLR1.5b					\$2,410,800.07
		Escalate from 2017 to 2019	12%		\$289,296.01
					\$2,700,096.08
		Escalate from 2019 to 2020	5%		\$135,004.80
Total PLR1.5b					\$2,835,100.88
Subtotal PLR1.5b Drainage					\$630,055.00
Total PLR-1.5b					\$3,465,155.88
Metro Air Park PFFP Table A3 PLR1.5b					\$3,465,000.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Drainage Improvements
Phase 3
PLR-1.5b

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
Road D to Road A (2 Lanes, Width = 34') (11'/12' TWLTL/11')					
Powerline Road					
1)	Storm Drain Stub	6	EA	\$9,350.00	\$56,100.00
2)	48" Manhole	9	EA	\$5,500.00	\$49,500.00
3)	60" Manhole	2	EA	\$7,000.00	\$14,000.00
5)	12" Storm Drain	350	LF	\$75.00	\$26,250.00
7)	21" Storm Drain	400	LF	\$88.00	\$35,200.00
8)	24" Storm Drain	400	LF	\$95.00	\$38,000.00
10)	30" Storm Drain	1,500	LF	\$75.00	\$112,500.00
11)	36" Storm Drain	600	LF	\$85.00	\$51,000.00
Subtotal PLR-1.5b					\$382,550.00
		Engineering (Private)	25%		\$95,637.50
		Contingencies (Private)	15%		\$57,573.78
Total PLR1.5b-1 Drainage					\$535,761.28
		Escalate from 2017 to 2019	12%		\$64,291.35
					\$600,052.63
		Escalate from 2019 to 2020	5%		\$30,002.63
Total PLR-1.5b Drainage					\$630,055.26
Metro Air Park PFFP Table A3 PLR1.5b Drainage					\$630,000.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Surface Improvements
Phase 4
PLR-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road "A" to Elverta Road, L = 2,300 LF) (2 Lanes, "Highline" Ditch to Elverta Road, Width = 45') (1 Lane, "Highline" Ditch to Road "A", Width = 29')					
1)	Clearing & Grubbing	91,800	SF	\$0.13	\$11,934.00
2)	Excavation	4,300	CY	\$10.00	\$43,000.00
3)	6" AC, 9" AB, & 12" Chem & Lime Treated	88,800	SF	\$5.84	\$518,592.00
4)	6" AC, 9" AB, & 12" Chem & Lime Treated (Exterior Paving at Elverta Road)	3,000	SF	\$6.72	\$20,160.00
5)	Type 2 Curb & Gutter	1,200	LF	\$33.00	\$39,600.00
6)	Relocate Drainage Canal	1,200	LF	\$0.00	\$0.00
7)	Power Pole Relocation	9	EA	\$15,000.00	\$135,000.00
8)	Striping	4,600	LF	\$7.50	\$34,500.00
9)	Street Sign	4	EA	\$400.00	\$1,600.00
10)	Roadside Ditch	3,600	LF	\$3.50	\$12,600.00
11)	Street Lighting	12	EA	\$5,500.00	\$66,000.00
12)	Signalization	1	LS	\$275,000.00	\$275,000.00
13)	Signalization Interconnect	3,600	LF	\$15.00	\$54,000.00
Subtotal PLR-2					\$1,211,986.00
*Costs include Slurry Seal					
	Engineering (Private)	25%			\$302,996.50
	Contingencies (Private)	15%			\$181,797.90
Total PLR-2					\$1,696,780.40
	Escalate from 2017 to 2019	12%			\$203,613.65
					\$1,900,394.05
	Escalate from 2019 to 2020	5%			\$95,019.70
					\$1,995,413.75
Total PLR-2 Water					\$792,247.68
Total PLR-2					\$2,787,661.43
Metro Air Park PFFP Table A3 - PLR-2					\$2,787,609.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Water Improvements
Phase 4
PLR-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road "A" to Elverta Road, L = 2,300 LF)					
(Road "A", Power Line Road to Intx of Roads "A" & "B")					
1)	12" Water Main Including Fire Hydrants	3,450	LF	\$93.00	\$320,850.00
2)	16" Water Main	1,150	LF	\$117.00	\$134,550.00
3)	Service Stubs/Crossings	3	EA	\$8,600.00	\$25,800.00
Subtotal PLR-2					\$481,200.00
				Engineering (Private) 25%	\$120,300.00
				Contingencies (Private) 15%	\$72,180.00
Total PLR-2					\$673,680.00
				Escalate from 2017 to 2019 12%	\$80,841.60
					\$754,521.60
				Escalate from 2019 to 2020 5%	\$37,726.08
Total PLR-2 water					\$792,247.68
Metro Air Park PFFP Table A3 - PLR-2 Water					\$792,248

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Power Line Road Surface Improvements
Phase 6
PLR-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Del Paso Road to I-5 Overcrossing, L = 5,400 LF) (2 Lanes, AC; AB Width = 32' - Del Paso Road to South Bayou Road, L = 4,900 LF) (2 Lanes, Overlay Width = 40' - South Bayou Road to I-5 Overcrossing, L = 500 LF)					
1)	Clearing & Grubbing	156,800	SF	\$0.13	\$20,384.00
2)	Excavation	7,300	CY	\$15.00	\$109,500.00
3)	6" AC, 9" AB, & 12" Lime Treated	156,800	SF	\$6.01	\$942,368.00
4)	AC Overlay	20,000	SF	\$3.90	\$78,000.00
5)	Roadside Ditch	5,500	LF	\$3.50	\$19,250.00
6)	Cross Culvert With CMP D.I.	900	LF	\$125.00	\$112,500.00
7)	Power Pole Relocation	44	EA	\$15,000.00	\$660,000.00
8)	Striping	5,400	LF	\$7.50	\$40,500.00
9)	Street Sign	3	EA	\$400.00	\$1,200.00
10)	Signalization at South Bayou Road	1	LS	\$275,000.00	\$275,000.00
11)	Relocate Drainage Canal	2,500	LF	\$35.00	\$87,500.00
Subtotal PLR-3					\$2,346,202.00
*Costs include Slurry Seal					
		Engineering (Private)	25%		\$586,550.50
		Contingencies (Private)	16.13%		\$378,477.58
12)	ROW Acquisition	2.5	AC	\$25,000.00	\$62,500.00
Total PLR-3					\$3,373,730.08
		Escalate from 2017 to 2019	12%		\$404,847.61
					\$3,778,577.68
		Escalate from 2019 to 2020	5%		\$188,928.88
					\$3,967,506.57
Metro Air Park PFFP Table A3 PLR-3					\$3,967,506.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Lone Tree Road Surface Improvements
Phase 4
LTR-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Meister Way to Elverta Road, L = 13,200 LF) + (Road F to Meister = 1320 LF = + 10%) (2 Lanes, Width = 34')					
1)	Clearing & Grubbing	516,340	SF	\$0.13	\$67,124.20
2)	Excavation	23,430	CY	\$10.00	\$234,300.00
3)	6.5" AC, 8" AB, & 15" Lime Treated	348,700	SF	\$5.91	\$2,060,817.00
4)	6" AC, 9" AB, & 12" Lime Treated	144,980	SF	\$6.10	\$884,378.00
5)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elverta Road)	4,400	SF	\$7.02	\$30,888.00
6)	6" AC, 8" AB, & 15" Lime Treated (Exterior Paving at Meister Way)	7,370	SF	\$7.15	\$52,695.50
7)	6" AC, 9" AB, & 12" Lime Treated (Exterior Paving at Elkhorn Boulevard)	10,890	SF	\$6.72	\$73,180.80
8)	Roadside Ditch	29,040	LF	\$3.50	\$101,640.00
9)	Street Sign	7	EA	\$400.00	\$2,800.00
10)	Striping	14,520	LF	\$7.50	\$108,900.00
Subtotal LTR-1					\$3,616,723.50
		Engineering (Private)	25%		\$904,180.88
		Contingencies (Private)	20.79%		\$751,880.65
Total LTR-1					\$5,272,785.02
		Escalate from 2017 to 2019	12%		\$632,734.20
					\$5,905,519.23
		Escalate from 2019 to 2020	5%		\$295,275.96
					\$6,200,795.19
Subtotal LTR-1 Drainage					\$2,536,013.93
Subtotal LTR-1 Sewer					\$1,985,072.92
Subtotal LTR-1 Water					\$489,586.79
Subtotal WTR-2					\$2,373,723.71
Total LTR-1					\$13,585,192.54
Metro Air Park PFFP Table A3 LTR-1					\$13,585,152.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Lone Tree Road Drainage Improvements
Phase 4
LTR-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Meister Way to Elverta Road) + (Road F to Meister = 1320 LF = + 10%) (2 Lanes, Width = 34') (11'/12' TWLTL/11')					
1)	Storm Drain Stub	28	EA	\$9,350.00	\$261,800.00
2)	48" Manhole	26	EA	\$5,500.00	\$143,000.00
3)	60" Manhole	11	EA	\$7,000.00	\$77,000.00
4)	60" Type A Saddle Manhole	4	EA	\$5,000.00	\$20,000.00
5)	12" Storm Drain	330	LF	\$75.00	\$24,750.00
6)	15" Storm Drain	2,992	LF	\$78.00	\$233,376.00
7)	21" Storm Drain	1,606	LF	\$88.00	\$141,328.00
8)	24" Storm Drain	1,804	LF	\$95.00	\$171,380.00
9)	27" Storm Drain	330	LF	\$100.00	\$33,000.00
10)	30" Storm Drain	2,596	LF	\$75.00	\$194,700.00
11)	36" Storm Drain	1,507	LF	\$85.00	\$128,095.00
12)	42" Storm Drain	1,540	LF	\$90.00	\$138,600.00
13)	66" Storm Drain	880	LF	\$150.00	\$132,000.00
14)	12" Cobbled Erosion Control Outlet	2	EA	\$1,300.00	\$2,600.00
Subtotal LTR-1					\$1,701,629.00
Engineering (Private) 25%					\$425,407.25
Contingencies (Private) 1.73%					\$29,438.18
Total LTR-1 Drainage					\$2,156,474.43
Escalate from 2017 to 2019 12%					\$258,776.93
Total LTR-1 Drainage					\$2,415,251.36
Escalate from 2019 to 2020 5%					\$120,762.57
Total LTR-1 Drainage					\$2,536,013.93
Metro Air Park PFFP Table A3 LTR-1 Drainage					\$2,536,181.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Lone Tree Road Sewer Improvements
Phase 4
LTR-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Meister Way to Elverta Road, L = 13,200 LF) + (Road F to Meister = 1320 LF = + 10%)					
1)	8" Sanitary Sewer 6'-10' Deep	550	LF	\$70.00	\$38,500.00
2)	8" Sanitary Sewer 10'-14' Deep	3,080	LF	\$75.00	\$231,000.00
3)	8" Sanitary Sewer 14'-18' Deep	3,003	LF	\$100.00	\$300,300.00
4)	8" Sanitary Sewer 18'-22' Deep	3,025	LF	\$140.00	\$423,500.00
5)	48" Manhole 6'-10' Deep	3	EA	\$5,200.00	\$15,600.00
6)	48" Manhole 10'-14' Deep	8	EA	\$5,700.00	\$45,600.00
7)	48" Manhole 14'-18' Deep	8	EA	\$6,500.00	\$52,000.00
8)	60" Manhole 18'-22' Deep	8	EA	\$7,700.00	\$61,600.00
9)	Service Stubs	26	EA	\$6,375.00	\$165,750.00
Subtotal LTR-1					\$1,333,850.00
		Engineering (Private)	25%		\$333,462.50
		Contingencies (Private)	1.55%		\$20,674.68
Total LTR-1 Sewer					\$1,687,987.18
		Escalate from 2017 to 2019	12%		\$202,558.46
					\$1,890,545.64
		Escalate from 2019 to 2020	5%		94527.2818
Subtotal LTR-1 Sewer					\$1,985,072.92
Metro Air Park PFFP Table A3 - LTR-1 Sewer					\$1,985,065.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Lone Tree Road Water Improvements
 Phase 4
 LTR-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Meister Way to Elkhorn Boulevard, L = 2,700 LF) + (Road F to Meister = 270 LF = + 10%)					
1)	12" Water Main Including Fire Hydrants	3,036	LF	\$93.00	\$282,348.00
2)	Service Stubs/Crossings	5	EA	\$8,600.00	\$43,000.00
Subtotal LTR-1					\$325,348.00
	Engineering (Private)	25%			\$81,337.00
	Contingencies (Private)	2.96%			\$9,630.30
Total LTR-1					\$416,315.30
	Escalate from 2017 to 2019	12%			\$49,957.84
					\$466,273.14
	Escalate from 2019 to 2020	5%			\$23,313.66
Subtotal LTR-1 Water					\$489,586.79
Subtotal LTR-1 Water/WTR-2					\$2,373,723.71
Total LTR-1 Water/WTR-2					\$2,863,310.50
Metro Air Park PFFP Table A3 - LTR-1 Water					\$2,863,397.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Water Improvements
 Phase 4
 WTR-2 (Include in LTR-1)

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
Lone Tree Road (Elkhorn Blvd. to Elverta Road, L=10,500 LF) + (Road F to Meister = 1,050 LF = + 10%)					
<hr/>					
1)	12" Water Main Including Fire Hydrants	11,550	LF	\$93.00	\$1,074,150.00
2)	Service Stubs	27	EA	\$8,600.00	\$232,200.00
3)	Gravel Access Road	11550	LF	\$16.00	\$184,800.00
4)	Rough Grading	44000	CY	\$5.00	\$220,000.00
Subtotal LTR-1, WTR-1					\$1,711,150.00
<hr/>					
	Engineering (Private)	15%			\$256,672.50
	Contingencies (Private)	2.96%			\$50,650.04
Total WTR-7					\$2,018,472.54
	Escalate from 2017 to 2019	12%			\$242,216.70
					\$2,260,689.24
	Escalate from 2019 to 2020	5%			\$113,034.46
Subtotal WTR-7 Water					\$2,373,723.71

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Meister Way Surface Improvements
 Phase 4
 MW-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
	(Road "B" to Lone Tree Road, L = 3,400 LF)				
	(2 Lanes, Width = 42' - Road "B" to Metro Air Parkway, L = 850 LF)				
	(2 Lanes, Width = 34' - Metro Air Parkway to Lone Tree Road, L = 2,550 LF)				
1)	Clearing & Grubbing	152,000	SF	\$0.13	\$19,760.00
2)	Excavation	6,800	CY	\$10.00	\$68,000.00
3)	6.5" AC, 8" AB, & 15" Lime Treated	122,400	SF	\$6.22	\$761,328.00
4)	6.5" AC, 8" AB, & 15" Lime Treated (Exterior Paving at Metro Air Parkway)	26,200	SF	\$7.15	\$187,330.00
5)	6.5" AC, 8" AB, & 15" Lime Treated (Exterior Paving at Lone Tree Road)	3,400	SF	\$7.15	\$24,310.00
6)	Monument Signs and Landscaping	1	EA	\$100,000.00	\$100,000.00
7)	Roadside Ditch	6,800	Lf	\$3.50	\$23,800.00
8)	Striping	3,400	LF	\$7.50	\$25,500.00
9)	Street Sign	6	EA	\$400.00	\$2,400.00
10)	Relocate Drainage Canal	3,400	LF	\$0.00	\$0.00
11)	Relocate Irrigation Canal	3,400	LF	\$0.00	\$0.00
	Subtotal MW-1				\$1,212,428.00
	Engineering (Private)	25%			\$303,107.00
	Contingencies (Private)	8.61%			\$104,390.05
12)	Abandon R/W	4.3	AC	\$5,000.00	\$21,500.00
	Total MW-1				\$1,641,425.05
	Escalate from 2017 to 2019	12%			\$196,971.01
					\$1,838,396.06
	Escalate from 2019 to 2020	5%			\$91,919.80
					\$1,930,315.86
	Subtotal MW-1 Drainage				\$376,325.88
	Subtotal MW-1 Sewer				\$840,717.70
	Subtotal MW-1 Water				\$485,688.00
	Total MW-1				\$3,633,047.44
	Metro Air Park PFFP Table A3 - MW-1				\$3,633,017.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Meister Way Drainage Improvements
 Phase 4
 MW-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Road "B" to Lone Tree Road)					
1)	42" Storm Drain	1,050	LF	\$150.00	\$157,500.00
2)	60" Manhole	2	EA	\$7,000.00	\$14,000.00
3)	12" Cobbled Erosion Control Outlet	1	EA	\$1,300.00	\$1,300.00
4)	36" CMP Culvert	115	LF	\$85.00	\$9,775.00
5)	Culvert Erosion Control (MW-1)	1	EA	\$40,000.00	\$40,000.00
6)	42" O.S. W/R-17 T.R. & E.C.	1	EA	\$6,000.00	\$6,000.00
Subtotal MW-1					\$228,575.00
		Engineering (Private)	25%		\$57,143.75
		Contingencies (Private)	15%		\$34,286.25
Total MW-1					\$320,005.00
		Escalate from 2017 to 2019	12%		\$38,400.60
					\$358,405.60
		Escalate from 2019 to 2020	5%		\$17,920.28
Subtotal MW-1 Drainage					\$376,325.88
Metro Air Park PFFP Table A3 - MW-1 Drainage					\$376,326.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Meister Way Sewer Improvements
 Phase 4
 MW-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Meister Way, Road "B" to Lone Tree Road, L = 3,400 LF)					
1)	8" Sanitary Sewer 14'-18' Deep	900	LF	\$100.00	\$90,000.00
2)	8" Sanitary Sewer 18'-22' Deep	895	LF	\$140.00	\$125,300.00
3)	12" Sanitary Sewer 22'-26' Deep	838	LF	\$180.00	\$150,840.00
4)	60" Manhole 14'-18' Deep	3	EA	\$13,000.00	\$39,000.00
5)	60" Manhole 18'-22' Deep	2	EA	\$16,000.00	\$32,000.00
6)	60" Manhole 18'-22' Deep	3	EA	\$16,000.00	\$48,000.00
7)	Service Stubs	4	EA	\$6,375.00	\$25,500.00
Subtotal MW-1					\$510,640.00
	Engineering (Private)	25%			\$127,660.00
	Contingencies (Private)	15%			\$76,596.00
	Total MW-1				\$714,896.00
	Escalate from 2017 to 2019	12%			\$85,787.52
					\$800,683.52
	Escalate from 2019 to 2020	5%			\$40,034.18
	Subtotal MW-1 Sewer				\$840,717.70
	Metro Air Park PFFP Table A3 - MW-1 Sewer				\$840,717.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Meister Way Water Improvements
 Phase 4
 MW-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Road "B" to Lone Tree Road, L = 3,400 LF)					
1)	12" Water Main Including Fire Hydrants	1,200	LF	\$93.00	\$111,600.00
2)	16" Water Main	1,200	LF	\$117.00	\$140,400.00
3)	Service Stubs	5	EA	\$8,600.00	\$43,000.00
Subtotal MW-1					\$295,000.00
Engineering (Private) 25%					\$73,750.00
Contingencies (Private) 15%					\$44,250.00
Total MW-1					\$413,000.00
Escalate from 2017 to 2019 12%					\$49,560.00
\$462,560.00					
Escalate from 2019 to 2020 5%					\$23,128.00
Subtotal MW-1 Water					\$485,688.00
Metro Air Park PFFP Table A3 - MW-1 Water					\$485,688.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Road "A" Surface Improvements
Phase 4
RA-1 East

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Metro Air Parkway to Lone Tree Road, L 5,600 LF)					
(2 Lanes, Width = 34' - Metro Air Parkway to Lone Tree Road, L = 2,300 LF)					
1)	Clearing & Grubbing	97,500	SF	\$0.13	\$12,675.00
2)	Excavation	3,500	CY	\$10.00	\$35,000.00
3)	5.5" AC, 6" AB, & 12" Lime Treated	78,200	SF	\$5.15	\$402,730.00
4)	5.5" AC, 6" AB, & 12" Lime Treated (Exterior Paving at Metro Air Parkway)	9,800	SF	\$5.93	\$58,114.00
5)	5.5" AC, 6" AB, & 12" Lime Treated (Exterior Paving at Lone Tree Road)	9,500	SF	\$5.93	\$56,335.00
6)	Left Turn Pocket Median	360	LF	\$32.00	\$11,520.00
7)	Curb and Gutter at Signalized Intersection	480	LF	\$33.00	\$15,840.00
8)	Monument Signs and Landscaping	0	EA	\$100,000.00	\$0.00
9)	Striping	5,600	LF	\$7.50	\$42,000.00
10)	Street Sign	7	EA	\$400.00	\$2,800.00
11)	Roadside Ditch	4,600	LF	\$3.50	\$16,100.00
Subtotal RA-1 East					\$653,114.00
		Engineering (Private)	25%		\$163,278.50
		Contingencies (Private)	15%		\$97,967.10
Total RA-1 East					\$914,359.60
		Escalate from 2017 to 2019	12%		\$109,723.15
					\$1,024,082.75
		Escalate from 2019 to 2020	5%		\$51,204.14
					\$1,075,286.89
Subtotal RA East Drainage					\$566,814.76
Subtotal RA East Sewer					\$990,927.71
Subtotal RA East Water					\$761,342.40
Total RA-1 East					\$3,394,371.76
Metro Air Park PFFP Table A3 - RA-1 East					\$3,394,371.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Road "A" Drainage Improvements
 Phase 4
 RA-1 East

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road "A", Metro Air Parkway to Lone Tree Road)					
1)	21" Storm Drain	250	LF	\$88.00	\$22,000.00
2)	24" Storm Drain	840	LF	\$95.00	\$79,800.00
3)	30" Storm Drain	640	LF	\$110.00	\$70,400.00
4)	36" Storm Drain	400	LF	\$135.00	\$54,000.00
5)	Storm Drain Stub	3	EA	\$9,350.00	\$28,050.00
6)	48" Manhole	4	EA	\$5,500.00	\$22,000.00
7)	60" Manhole	2	EA	\$7,000.00	\$14,000.00
8)	RC Junction Box	1	EA	\$12,000.00	\$12,000.00
9)	30" O.C. W/Trash Rack (R-16)	1	EA	\$4,000.00	\$4,000.00
10)	36" O.C. W/Trash Rack (R-17)	1	EA	\$5,000.00	\$5,000.00
11)	30" CMP Culvert	110	LF	\$75.00	\$8,250.00
12)	36" CMP Culvert	115	LF	\$85.00	\$9,775.00
13)	Culvert Erosion Control (RA-1)	2	EA	\$7,500.00	\$15,000.00
Subtotal RA-1 East					\$344,275.00
Engineering (Private) 25%					\$86,068.75
Contingencies (Private) 15%					\$51,641.59
Total RA-1 East					\$481,985.34
Escalate from 2017 to 2019 12%					\$57,838.24
Subtotal RA-1 East Drainage					\$539,823.59
Escalate from 2019 to 2020 5%					\$26,991.18
Subtotal RA-1 East Drainage					\$566,814.76
Metro Air Park PFFP Table A3 - RA-1 Drainage					\$566,814.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Road "A" Sewer Improvements
 Phase 4
 RA-1 East

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Metro Air Parkway to Lone Tree Road, L = 2,500 LF)					
1)	10" Sanitary Sewer 18'-22' Deep	1,215	LF	\$160.00	\$194,400.00
2)	10" Sanitary Sewer 22'-26' Deep	1,215	LF	\$190.00	\$230,850.00
3)	60" Manhole 18'-22' Deep	4	EA	\$15,000.00	\$60,000.00
4)	60" Manhole 22'-26' Deep	4	EA	\$18,000.00	\$72,000.00
5)	Service Stubs	7	EA	\$6,375.00	\$44,625.00
Subtotal RA-1 East Sewer					\$601,875.00
		Engineering (Private)	25%		\$150,468.75
		Contingencies (Private)	15%		\$90,281.85
Total RA-1 East					\$842,625.60
		Escalate from 2017 to 2019	12%		\$101,115.07
					\$943,740.67
		Escalate from 2019 to 2020	5%		\$47,187.03
Subtotal RA-1 East Sewer					\$990,927.71
Metro Air Park PFFP Table A3 - RA-1 Water					\$990,927.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Road "A" East Water Improvements
 Phase 4
 RA-1 East

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Road "B" to Lone Tree Road, L = 3,400 LF)					
1)	12" DIP	4,800	LF	\$100.00	\$480,000.00
2)	Fire Hydrant	4	EA	\$6,800.00	\$27,200.00
	ARV	3	EA	\$5,400.00	\$16,200.00
	12" B.F. Valve	3	EA	\$2,000.00	\$6,000.00
	Blow Off	2	EA	\$4,400.00	\$8,800.00
3)	Service Stubs/Crossing	6	EA	\$9,000.00	\$54,000.00
Subtotal RA-1 East					\$592,200.00
Engineering (Private) 15%					\$88,830.00
Contingencies (Private) 15%					\$88,830.59
Total RA-1 East					\$769,860.59
Adjustment per Gary Albertson					\$647,400.00
Escalate from 2017 to 2019 12%					\$77,688.00
					\$725,088.00
Escalate from 2019 to 2020 5%					\$36,254.40
Total RA-1 East Water					\$761,342.40
Metro Air Park PFFP Table A3 - RA-1 East Water					\$761,342.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Road "A" Surface Improvements
Phase 4
RA-1 West

May 2020

Item	Description	Quantity	Unit	Unit Price	Total	
(Metro Air Parkway to Power Line Road, L 3,300 LF)						
(2 Lanes, Width = 34' - Metro Air Parkway to Power Line Road, L = 3,300 LF)						
1)	Clearing & Grubbing	139,900	SF	\$0.13	\$18,187.00	
2)	Excavation	5,000	CY	\$10.00	\$50,000.00	
3)	5.5" AC, 6" AB, & 12" Lime Treated	112,200	SF	\$5.15	\$577,830.00	
4)	5.5" AC, 6" AB, & 12" Lime Treated (Exterior Paving at Metro Air Parkway)	9,800	SF	\$5.93	\$58,114.00	
5)	5.5" AC, 6" AB, & 12" Lime Treated (Exterior Paving at Power Line Road)	9,500	SF	\$5.93	\$56,335.00	
6)	Left Turn Pocket Median	360	LF	\$32.00	\$11,520.00	
7)	Curb and Gutter at Signalized Intersection	480	LF	\$33.00	\$15,840.00	
8)	Monument Signs and Landscaping	0	EA	\$100,000.00	\$0.00	
9)	Striping	6,600	LF	\$7.50	\$49,500.00	
10)	Street Sign	10	EA	\$400.00	\$4,000.00	
11)	Roadside Ditch	6,600	LF	\$3.50	\$23,100.00	
Subtotal RA-1 West					\$864,426.00	
Engineering (Private)					25%	\$216,106.50
Contingencies (Private)					15%	\$129,663.90
Total RA-1 West					\$1,210,196.40	
Escalate from 2017 to 2019					12%	\$145,223.57
					\$1,355,419.97	
Escalate from 2019 to 2020					5%	\$67,771.00
					\$1,423,190.97	
Subtotal RA West Drainage						\$934,085.04
Subtotal RA West Sewer						\$1,258,384.68
Subtotal RA West Water						\$849,985.35
Total RA-1 West						\$4,465,646.03
Metro Air Park PFFP Table A3 - RA-1 West						\$4,465,609.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Road "A" Drainage Improvements
Phase 4
RA-1 West

May 2020

Item	Description	Quantity	Unit	Unit Price	Total	
(Road "A", Metro Air Parkway to Lone Tree Road)						
1)	18" Storm Drain	600	LF	\$82.00	\$49,200.00	
3)	30" Storm Drain	340	LF	\$110.00	\$37,400.00	
4)	36" Storm Drain	590	LF	\$135.00	\$79,650.00	
5)	42" Storm Drain	1,280	LF	\$150.00	\$192,000.00	
6)	Storm Drain Stub	16	EA	\$9,350.00	\$149,600.00	
7)	48" Manhole	3	EA	\$5,500.00	\$16,500.00	
8)	60" Manhole	5	EA	\$7,000.00	\$35,000.00	
9)	30" O.C. W/Trash Rack (R-16)	2	EA	\$4,000.00	\$8,000.00	
Subtotal RA-1 West Drainage					\$567,350.00	
Engineering (Private)					25%	\$141,837.50
Contingencies (Private)					15%	\$85,102.50
Total RA-1 West Drainage					\$794,290.00	
Escalate from 2017 to 2019					12%	\$95,314.80
						\$889,604.80
Escalate from 2019 to 2020					5%	\$44,480.24
Subtotal RA-1 West Drainage						\$934,085.04
Metro Air Park PFFP Table A3 - RA-1 W Drainage						\$934,085.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Road "A" Sewer Improvements
 Phase 4
 RA-1 West

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
(Metro Air Parkway to Lone Tree Road, L = 2,500 LF)					
1)	10" Sanitary Sewer 18'-22' Deep	1,140	LF	\$140.00	\$159,600.00
2)	10" Sanitary Sewer 22'-26' Deep	2,120	LF	\$180.00	\$381,600.00
3)	60" Manhole 18'-22' Deep	3	EA	\$15,000.00	\$45,000.00
4)	60" Manhole 22'-26' Deep	6	EA	\$18,000.00	\$108,000.00
5)	Service Stubs	11	EA	\$6,375.00	\$70,125.00
Subtotal RA-1 West					\$764,325.00
	Engineering (Private)	25%			\$191,081.25
	Contingencies (Private)	15%			\$114,648.75
Total RA-1 West Sewer					\$1,070,055.00
	Escalate from 2017 to 2019	12%			\$128,406.60
					\$1,198,461.60
	Escalate from 2019 to 2020	5%			\$59,923.08
Subtotal RA-1 West Sewer					\$1,258,384.68
Metro Air Park PFFP Table A3 - RA-1 West Sewer					\$1,258,385.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Road "A" West Water Improvements
 Phase 4
 RA-1 West

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
Road "A" Water Line Power Line Road to Metro Parkway					
1)	Clearing and Grubbing	38,500	SF	\$0.13	\$5,005.00
2)	Mobilization	1	EA	\$5,000.00	\$5,000.00
3)	16" Water Main	2,000	LF	\$117.00	\$234,000.00
4)	24" Water Main	1,130	LF	\$225.00	\$254,250.00
5)	Service Stubs	2	EA	\$8,600.00	\$17,200.00
6)	Service Stubs/Crossing	1	EA	\$8,600.00	\$8,600.00
Subtotal MW-1					\$524,055.00
<hr/>					
	Engineering (Private)	22%			\$115,292.10
	Contingencies (Private)	16%			\$83,429.56
	Total RA-1 West				\$722,776.66
	Escalate from 2017 to 2019	12%			\$86,733.20
					\$809,509.85
	Escalate from 2019 to 2020	5%			\$40,475.49
	Subtotal RA-1 West Water				\$849,985.35
	Metro Air Park PFFP Table A3 - RA-1 West Water				\$849,948.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Del Paso Road Surface Improvements
Phase 6
DPR-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Power Line Road to City Limits, l = 7,400 lf) (2 lanes, Overlay Width = 18"; AC:AB Width = 14"					
1)	Clearing & Grubbing	103,600	SF	\$0.13	\$13,468.00
2)	Excavation	4,700	CY	\$15.00	\$70,500.00
3)	5.5" AC, 6" AB, & 12" Lime Treated	103,600	SF	\$5.30	\$549,080.00
4)	Roadside Ditch	14,800	LF	\$3.50	\$51,800.00
5)	AC Overlay	133,200	SF	\$3.31	\$440,892.00
6)	48" CMP Culvert	40	LF	\$98.00	\$3,920.00
7)	AC Dike	1,000	LF	\$14.00	\$14,000.00
8)	Relocate Drainage Ditch	1,000	LF	\$9.00	\$9,000.00
9)	Telephone Pole Relocation	50	EA	\$3,000.00	\$150,000.00
10)	Power Pole Relocation	5	EA	\$15,000.00	\$75,000.00
11)	Cross Culvert With CMP D.I.	600	Lf	\$125.00	\$75,000.00
12)	Striping	7,400	Lf	\$7.50	\$55,500.00
13)	Street Sign	2	EA	\$400.00	\$800.00
14)	Signalization at Power Line Road	1	LS	\$200,000.00	\$200,000.00
Subtotal DPR-1					\$1,708,960.00
		Engineering (Private)	25%		\$427,240.00
		Contingencies (Private)	19.87%		\$339,613.08
12)	ROW Acquisition	3.1	AC	\$25,000.00	\$77,500.00
Total DPR-1					\$2,553,313.08
		Escalate from 2017 to 2019	12%		\$306,397.57
					\$2,859,710.65
		Escalate from 2019 to 2020	5%		\$142,985.53
Total DPR-1					\$3,002,696.18
Metro Air Park PFFP Table A3 DPR-1					\$3,002,677.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 South Bayou Road Surface Improvements
 Phase 6
 SBR-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Airport Blvd Intersection Control)					
1)	Remove Stop Signs	1	LS	\$600.00	\$600.00
2)	Remove Striping	1	LS	\$1,300.00	\$1,300.00
3)	Slurry Seal	13,000	SF	\$0.30	\$3,900.00
4)	Striping	1	JOB	\$600.00	\$600.00
Subtotal SBR-2					\$6,400.00
	Engineering (Private)	25%			\$1,600.00
	Contingencies (Private)	28.91%			\$1,850.30
Total SBR-2					\$9,850.30
	Escalate from 2017 to 2019	12%			\$1,182.04
					\$11,032.34
	Escalate from 2019 to 2020	5%			\$551.62
Total SBR-2					\$11,583.96
Metro Air Park PFFP Table A3 - SBR-2					\$11,584.00

Section E
Freeway Project

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Concept Approval Report
 I-5/Metro Air Parkway Interchange
 Phase 1 Construction

I5-X1&X2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Construction Contract	1	Job	\$17,939,737.00	\$17,939,737.00
2)	Permit Fees/Mitigation	1	Job	\$10,500.00	\$10,500.00
3)	Environmental Services	1	Job	\$110,000.00	\$110,000.00
4)	Public Works Services - Surveys	1	Job	\$592,605.00	\$592,605.00
5)	Technical Services - Construction Inspection	1	Job	\$2,361,418.00	\$2,361,418.00
6)	Technical Services - Materials Testing	1	Job	\$391,000.00	\$391,000.00
7)	SacDOT - Design/Plan/Prog	1	Job	\$125,684.00	\$125,684.00
8)	SCWA & Airports Construction Support	1	Job	\$125,000.00	\$125,000.00
Subtotal I5-2a					\$21,655,944.00
Contingency					\$3,731,200.00
Total I5-X1 & X2					\$25,387,144.00
Project I5-X1 (33.6% construction)					\$8,541,362.43
Project I5-X2 (66.4% construction)					\$16,845,781.57
Metro Air Park PFFP Table A3 - I5-X1					\$8,540,455.00
Metro Air Park PFFP Table A3 - I5-X2					\$16,846,689.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 I-5/Metro Air Parkway Interchange Aux Lanes SR 99 to MAP (North Side)
 Stage Two
 Phase 2a
 I5-2a

Item	Description	Quantity	Unit	Unit Price	Total
1)	Construction Contract	1	Job	\$272,000.00	\$2,725,000.00
2)	Engineer and Consulting Contracts	1	Job	\$390,646.00	\$390,646.00
3)	Environmental Services	1	Job	\$25,000.00	\$25,000.00
4)	Public Works Services - Surveys	1	Job	\$91,000.00	\$91,000.00
5)	Technical Services - Construction Inspection	1	Job	\$303,354.00	\$303,354.00
6)	Technical Services - Materials Testing	1	Job	\$40,000.00	\$40,000.00
7)	SacDOT - Design/Plan/Prog	1	Job	\$150,000.00	\$150,000.00
Subtotal I5-2a					\$3,725,000.00
Contingency					\$285,000.00
Total I5-2a					\$4,010,000.00
Funding from CFD 1998-1					\$600,000.00
Funding from SACOG Grant					\$1,940,000.00
Total for MAP for I5-2a					\$1,470,000.00
Metro Air Park PFFP Table A3 - I5-2a					\$1,470,000.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 I-5/Metro Air Parkway Interchange Aux Lanes SR 99 to MAP (South Side)
 Stage Two
 Phase 2b

Item	Description	Quantity	Unit	Unit Price	Total
1)	Construction Contract	1	Job	\$272,000.00	\$2,725,000.00
2)	Engineer and Consulting Contracts	1	Job	\$390,646.00	\$390,646.00
3)	Environmental Services	1	Job	\$25,000.00	\$25,000.00
4)	Public Works Services - Surveys	1	Job	\$91,000.00	\$91,000.00
5)	Technical Services - Construction Inspection	1	Job	\$303,354.00	\$303,354.00
6)	Technical Services - Materials Testing	1	Job	\$40,000.00	\$40,000.00
7)	SacDOT - Design/Plan/Prog	1	Job	\$150,000.00	\$150,000.00
Subtotal I5-2b					\$3,725,000.00
Contingency					\$1,994,818.51
Total I5-2b					\$5,719,818.51
Metro Air Park PFFP Table A3 - I5-2b					\$5,719,818.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Concept Approval Report
 I-5 Main Line Lanes
 Phase 5
 I5-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Northbound - Sta 91+97.3 to Sta 123+00) (Southbound - Sta 87+47.8 to Sta 115+00) (1-3.6m Lane & 3.0m Shoulder Each Direction, Total Width = 6.6m)					
1)	Clearing & Grubbing	1	JOB	\$10,000.00	\$10,000.00
2)	Roadway Excavation	39,610	m ³	\$18.00	\$712,980.00
3)	Asphalt Concrete	18,576	Tonne	\$70.00	\$1,300,320.00
4)	Aggregate Base (CL 2)	26,440	Tonne	\$33.00	\$872,520.00
5)	Aggregate Subbase	45,078	Tonne	\$27.50	\$1,239,645.00
6)	Asphalt Concrete (Open Graded)	1,307	Tonne	\$67.10	\$87,699.70
7)	Drainage	1	JOB	\$71,500.00	\$71,500.00
8)	Water Pollution Control	1	LS	\$27,500.00	\$27,500.00
9)	Traffic Control System	1	Ls	\$110,000.00	\$110,000.00
10)	Pavement Striping	1	JOB	\$33,000.00	\$33,000.00
11)	Signing	1	JOB	\$16,500.00	\$16,500.00
12)	Minor Items	1	LS	\$224,083.00	\$224,083.00
13)	Supplemental Work	1	LS	\$470,575.00	\$470,575.00
Subtotal I5-3					\$5,176,322.70
Engineering (Public) 25%					\$1,294,080.68
Contingencies (Public) 15.78%					\$816,694.31
Total I5-3					\$7,287,097.69
Escalate from 2006 to 2018 38.60%					\$2,812,819.71
Total I5-3					\$10,099,917.40
Escalate from 2018 to 2020 5%					\$504,995.87
Total I5-3					\$10,604,913.27
Metro Air Park PFFP Table A3 I5-3					\$10,604,935.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Concept Approval Report
 I-5/Metro Air Parkway Interchange
 Final Stage
 Phase 6
 I5-4

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Clearing & Grubbing	1	JOB	\$25,000.00	\$25,000.00
2)	Roadway Excavation	31,800	m ³	\$18.00	\$572,400.00
3)	Asphalt Concrete	14,091	Tonne	\$70.00	\$986,370.00
4)	Aggregate Base (CL 2)	27,225	Tonne	\$33.00	\$898,425.00
5)	Aggregate Subbase	17,821	Tonne	\$27.50	\$490,077.50
6)	Minor Concrete (Curb & Gutter)	360	m ³	\$365.00	\$131,400.00
7)	Plastic Pipe (Edge Drain)	490	m	\$38.50	\$18,865.00
8)	Drainage	1	JOB	\$33,000.00	\$33,000.00
9)	Water Pollution Control	1	LS	\$275,000.00	\$275,000.00
10)	Landscaping	6,500	m ²	\$26.07	\$169,455.00
11)	Construction Area Signs	1	LS	\$11,000.00	\$11,000.00
12)	Traffic Control System	1	LS	\$220,000.00	\$220,000.00
13)	Pavement Striping	1	JOB	\$5,500.00	\$5,500.00
14)	Signing	1	JOB	\$82,500.00	\$82,500.00
15)	Ramp Meter System	3	EA	\$92,400.00	\$277,200.00
16)	Traffic Signals	1	EA	\$165,000.00	\$165,000.00
17)	Signalization Interconnect	1	LS	\$52,800.00	\$52,800.00
18)	Minor Items	1	LS	\$220,700.00	\$220,700.00
19)	Supplemental Work	1	LS	\$463,469.00	\$463,469.00
20)	Power Line Road Abutment Retaining Wall	1	LS	\$180,000.00	\$180,000.00
21)	Concrete Bridge (7.2m x 80m)	576	m ²	\$1,870.00	\$1,077,120.00
22)	Structure Mobilization	1	LS	\$107,712.00	\$107,712.00
Subtotal I5-4					\$6,462,993.50
		Engineering (Public)	25%		\$1,615,748.38
		Contingencies (Public)	15.78%		\$1,019,731.11
Total I5-4					\$9,098,472.99
		Escalate from 2006 to 2018/19	38.60%		\$3,512,010.57
					\$12,610,483.56
		Escalate from 2018/19 to 2020	5%		\$630,524.18
Total I5-4					\$13,241,007.74
Metro Air Park PFFP Table A3					\$13,240,987.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Concept Approval Report
 I-5/Metro Air Parkway Interchange
 Final Stage
 Phase 6
 I5-5

Item	Description	Quantity	Unit	Unit Price	Total
					May 2020
1)	Clearing & Grubbing	1	JOB	\$3,000.00	\$3,000.00
2)	Imported Borrow	3,900	m ³	\$15.75	\$61,425.00
3)	Roadway Excavation	5,000	m ³	\$18.00	\$90,000.00
4)	Asphalt Concrete	2,928	Tonne	\$70.00	\$204,960.00
5)	Aggregate Base (CL 2)	4,167	Tonne	\$33.00	\$137,511.00
6)	Aggregate Subbase	7,105	Tonne	\$27.50	\$195,387.50
7)	Asphalt Concrete (Open Graded)	125	Tonne	\$67.10	\$8,387.50
8)	Drainage	1	JOB	\$16,500.00	\$16,500.00
9)	Water Pollution Control	1	LS	\$55,000.00	\$55,000.00
10)	Traffic Control System	1	LS	\$82,500.00	\$82,500.00
11)	Pavement Striping	1	JOB	\$5,500.00	\$5,500.00
12)	Signing	1	JOB	\$5,500.00	\$5,500.00
13)	Traffic Signals /Lighting	1	EA	\$165,000.00	\$165,000.00
14)	Minor Items	1	LS	\$51,534.00	\$51,534.00
15)	Supplemental Work	1	LS	\$108,221.00	\$108,221.00
Subtotal I5-5					\$1,190,426.00
29% Fair Share					\$345,223.54
Engineering (Public) 15.78%					\$54,469.37
Contingencies (Public) 25%					\$86,305.89
Total I5-5					\$485,998.80
Escalate from 2006 to 2018/19 38.60%					\$187,595.53
\$673,594.33					
Escalate from 2018/19 to 2020 5%					\$33,679.72
Total I5-5					\$707,274.05
Metro Air Park PFFP Table A3 - I5-5					\$707,274.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Project Study Report
 SR99/Elkhorn Boulevard Interchange Widening
 Stage One
 Phase 3
 SR99-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Clearing & Grubbing	1	JOB	\$25,000.00	\$25,000.00
2)	Imported Borrow	100,200	m ³	\$15.75	\$1,578,150.00
3)	Roadway Excavation	61,170	m ³	\$18.00	\$1,101,060.00
4)	Asphalt Concrete	5,566	Tonne	\$70.00	\$389,620.00
5)	Aggregate Base (CL 2)	14,393	Tonne	\$33.00	\$474,969.00
6)	Aggregate Subbase	8,736	Tonne	\$27.50	\$240,240.00
7)	Minor Concrete (Curb & Gutter)	302	m ³	\$365.00	\$110,230.00
8)	Minor Concrete (Sidewalk)	163	m ³	\$396.00	\$64,548.00
9)	Drainage	1	JOB	\$82,500.00	\$82,500.00
10)	Metal Beam Guard Railing	60	m	\$102.30	\$6,138.00
11)	Water Pollution Control	1	LS	\$165,000.00	\$165,000.00
12)	Right of Way Acquisition (res)	1	JOB	\$39,160.00	\$39,160.00
13)	Construction Area Signs	1	LS	\$16,500.00	\$16,500.00
14)	Traffic Control System	1	LS	\$220,000.00	\$220,000.00
15)	Pavement Striping	1	JOB	\$11,000.00	\$11,000.00
16)	Signing	1	JOB	\$110,000.00	\$110,000.00
17)	Street Lighting	21	EA	\$4,235.00	\$88,935.00
18)	Minor Items	1	LS	\$236,153.00	\$236,153.00
19)	Supplemental Work	1	LS	\$495,920.00	\$495,920.00
20)	Concrete Bridge (18m x 77m)	1,386	m ²	\$1,870.00	\$2,591,820.00
21)	Retaining Wall at Existing Abutment	1	JOB	\$165,000.00	\$165,000.00
22)	Structure Mobilization	1	LS	\$275,682.00	\$275,682.00
Subtotal SR99-2					\$8,487,625.00
		Fair Share	44%	\$3,734,555.00	
		Engineering (Public)	25%	\$933,638.75	
		Contingencies (Public)	15.78%	\$589,238.09	
Total SR99-2					\$5,257,431.84
		Escalate from 2006 to 2018/19	38.60%	\$2,029,368.69	
					\$7,286,800.53
		Escalate from 2018/19 to 2020	5%	\$364,340.03	
Total SR99-2					\$7,651,140.55
Metro Air Park PFFP Table A3 - SR99-2					\$7,651,128.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Project Study Report
 SR99/Elkhorn Boulevard Interchange Widening
 Stage One
 Phase 3
 SR99-4

Item	Description	Quantity	Unit	Unit Price	Total
					May 2020
1)	Clearing & Grubbing	1	JOB	\$5,000.00	\$5,000.00
3)	Roadway Excavation	3,825	m ³	\$18.00	\$68,850.00
4)	Asphalt Concrete	1,622	Tonne	\$70.00	\$113,540.00
5)	Aggregate Base (CL 2)	7,150	Tonne	\$33.00	\$235,950.00
8)	Minor Concrete (Sidewalk)	175	m ³	\$365.00	\$63,875.00
9)	Drainage	1	JOB	\$22,000.00	\$22,000.00
11)	Water Pollution Control	1	LS	\$16,500.00	\$16,500.00
14)	Traffic Control System	1	LS	\$55,000.00	\$55,000.00
15)	Pavement Striping	1	JOB	\$5,500.00	\$5,500.00
18)	Minor Items	1	LS	\$29,311.00	\$29,311.00
19)	Supplemental Work	1	LS	\$61,553.00	\$61,553.00
Subtotal SR99-4					\$677,079.00
	Fair Share	44%			\$297,914.76
	Engineering (Public)	25%			\$74,478.69
	Contingencies (Public)	15%			\$44,687.21
	Total SR99-4				\$417,080.66
	Escalate from 2006 to 2018/19	38.60%			\$160,993.14
					\$578,073.80
	Escalate from 2018/19 to 2020	5%			\$28,903.69
	Total SR99-4				\$606,977.49
	Metro Air Park PFFP Table A3 - SR99-4				\$606,977.49

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Project Study Report
 SR99/Elkhorn Boulevard Interchange Widening
 Final Stage
 Phase 6
 SR99-6

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Clearing & Grubbing	1	LS	\$10,000.00	\$10,000.00
2)	Roadway Excavation	13,765	m ³	\$20.00	\$275,300.00
3)	Asphalt Concrete	11,556	Tonne	\$70.00	\$808,920.00
4)	Aggregate Base (CL 2)	16,448	Tonne	\$40.00	\$657,920.00
5)	Aggregate Subbase	28,043	Tonne	\$35.00	\$981,505.00
6)	Plastic Pipe (Edge Drain)	3,965	m	\$38.50	\$152,652.50
7)	Drainage	1	JOB	\$50,000.00	\$50,000.00
8)	Water Pollution Control	1	LS	\$110,000.00	\$110,000.00
9)	Right of Way Acquisition (ag)	1	JOB	\$68,200.00	\$68,200.00
10)	Relocate Call Box	1	EA	\$15,000.00	\$15,000.00
11)	Construction Area Signs	1	LS	\$50,000.00	\$50,000.00
12)	Pavement Striping	1	JOB	\$25,000.00	\$25,000.00
13)	Signing	1	JOB	\$55,000.00	\$55,000.00
14)	Ramp Meter Systems	4	EA	\$150,000.00	\$600,000.00
15)	Minor Items	1	LS	\$250,000.00	\$250,000.00
16)	Supplemental Work	1	LS	\$410,950.00	\$410,950.00
Subtotal SR99-6					\$4,520,447.50
Fair Share					44%
					\$1,988,996.90
Engineering (Public)					25%
Contingencies (Public)					15.77%
					\$497,249.23
					\$313,664.81
Total SR99-6					\$2,799,910.94
Escalate from 2006 to 2018/19					38.60%
					\$1,080,765.62
					\$3,880,676.56
Escalate from 2018/19 to 2020					5%
					\$194,033.83
Total SR99-6					\$4,074,710.39
Metro Air Park PFFP Table A3 - SR99-6					\$4,074,936.00

Section F
On-Site Drainage Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Drainage Improvements
 Phase 3
 DRN-10

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Pump Station Upgrade (South))					
1)	Add Pump(s) for 180 cfs capacity	1	JOB	\$660,000.00	\$660,000.00
Subtotal DRN-10					\$660,000.00
	Engineering (Private)	15%			\$99,000.00
	Contingencies (Private)	16.65%			\$109,890.00
	Total DRN-10				\$868,890.00
	ENR Escalate from 2006 to 2020	44.5%			\$386,656.05
	Total DRN-10				\$1,255,546.05
	Metro Air Park PFFP Table A3 - DRN-10				\$1,255,584.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Drainage Improvements
 Phase 4
 DRN-11.1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Pump Station Upgrade (South))					
1)	Add Pump(s) for 270 cfs capacity	1	JOB	\$770,000.00	\$770,000.00
Subtotal DRN-10					\$770,000.00
Engineering (Private) 15%					\$115,500.00
Contingencies (Private) 16.30%					\$125,510.00
Total DRN-11.1					\$1,011,010.00
ENR Escalate from 2006 to 2020 44.85%					\$453,437.99
Total DRN 11.1					\$1,464,447.99
Metro Air Park PFFP Table A3 - DRN 11.1					\$1,464,848.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Trash Capture Screen at South Pump Station
 Phase 2
 DRN-11.2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
(Pump Station Trash Capture Screen (South))					
1)	Trash Capture Screen	1	JOB	\$525,000.00	\$404,000.00
Subtotal DRN-11.2					\$404,000.00
				Engineering (Private) 15%	\$60,600.00
				Contingencies (Private) 15%	\$60,600.00
Total DRN-11.2					\$525,200.00
Metro Air Park PFFP Table A3 - DRN 11.2					\$525,000.00

Section G
Off-Site Drainage Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Off Site Drainage Improvements
Phase 2
RD1000-2

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Mobilization	1	LS	\$47,000.00	\$47,000.00
2)	Structural Excavation	1	LS	\$90,000.00	\$90,000.00
3)	Canal Excavation	1	CY	\$220,000.00	\$220,000.00
4)	Rip Rap	5,000	TON	\$15.50	\$77,500.00
5)	Bore & Jack Culvert	240	LF	\$445.00	\$106,800.00
9)	Gates	1	EA	\$69,000.00	\$69,000.00
10)	Local Drains	1	EA	\$89,000.00	\$89,000.00
Subtotal RD1000-6					\$699,300.00
	Engineering (Private)	25%			\$174,825.00
	Contingencies (Private)	15.86%			\$110,908.98
	Total RD1000-2				\$985,033.98
	ENR Escalate from 2006 to 2020	44.85%			\$441,787.74
	Total RD1000-2				\$1,426,821.72
	Metro Air Park PFFP Table A3 - RD1000-2				\$1,426,830.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Off Site Drainage Improvements
Phase 2
RD1000-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Mobilization	1	LS	\$8,800.00	\$8,800.00
2)	Structural Excavation	1	LS	\$9,240.00	\$9,240.00
3)	Bedding and Backfill	1	CY	\$7,700.00	\$7,700.00
4)	Rip Rap	100	TON	\$55.00	\$5,500.00
5)	Install 84" RCP	180	LF	\$445.00	\$80,100.00
Subtotal RD1000-6					\$111,340.00
	Engineering (Private)	25%			\$27,835.00
	Contingencies (Private)	12.80%			\$14,251.52
	Total RD1000-3				\$153,426.52
	ENR Escalate from 2006 to 2020	44.85%			\$68,811.79
	Total RD1000-3				\$222,238.31
	Metro Air Park PFFP Table A3 - RD1000-3				\$222,253.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Off Site Drainage Improvements
 Phase 1AA
 RD1000-6

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
	(Box Culvert)	<hr/>			
1)	Install Pump 50 cfs (60 cfs for estimate 2010 dollars)	1	LS	\$220,000.00	\$220,000.00
	Subtotal RD1000-6				\$220,000.00
<hr/>					
	Total RD1000-6				\$220,000.00
*The cost from RD-1000 included engineering and construction contingencies.					
	ENR Escalate from 2006 to 2020	44.85%			\$98,670.00
	Total RD1000-6				\$318,670.00
	Metro Air Park PFFP Table A3 - RD1000-6				\$321,945.00

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
Off Site Drainage Improvements
Phase 3
RD1000-7

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
1)	Mobilization	1	LS	\$33,000.00	\$33,000.00
2)	Misc. Grading	1	LS	\$66,000.00	\$66,000.00
3)	Canal Excavation	32,000	CY	\$6.60	\$211,200.00
4)	Rip Rap	200	TON	\$66.00	\$13,200.00
5)	Bore & Jack Culvert	800	LF	\$1,100.00	\$880,000.00
6)	Culvert Headwalls	100	LF	\$660.00	\$66,000.00
7)	Hydro Seeding	10	AC	\$2,750.00	\$27,500.00
8)	Aggregate Baserock	2,000	TON	\$27.50	\$55,000.00
9)	Gates	5	EA	\$2,200.00	\$11,000.00
10)	Local Drains	4	EA	\$5,500.00	\$22,000.00
Subtotal RD1000-7					\$1,384,900.00
	Engineering (Private)	25%			\$346,225.00
	Contingencies (Private)	16.50%			\$228,508.50
11)	Row Acquisition - Reach #8S	2.4	AC	\$27,500.00	\$66,000.00
12)	Row Acquisition - Reach #8N	0.7	AC	\$27,500.00	\$19,250.00
	Total RD1000-7				\$2,044,883.50
	ENR Escalate from 2006 to 2020	44.85%			\$917,130.25
	Total RD1000-7				\$2,962,013.75
	Metro Air Park PFFP Table A3 - RD1000-7				\$2,962,052.00

Section H
Sewer Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park (* 1.445)
 Sewer Improvements
 Phase 4
 SWR-4

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
Pumps					
<hr/>					
1)	Add Pumps for 100%	1	LS	\$200,000.00	\$200,000.00
Subtotal SWR-4					\$200,000.00
<hr/>					
	Engineering (Private)	25%			\$50,000.00
	Contingencies (Private)	15%			\$30,000.00
Total SWR-4					\$280,000.00
<hr/>					
	Escalate by ENR - 2006/07 to 2020	44.50%			\$124,600.00
Total SW-4					\$404,600.00
Metro Air Park PFFP Table A3 SW-4					\$409,748.00

Section I
Water Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Water Improvements
 Phase 4
 WTR-7

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
<hr/>					
Storage Reservoir					
<hr/>					
1)	2.5 MG Storage Reservoir & Expand Booster Plant	1	JOB	\$2,263,420.00	\$2,263,420.00
Subtotal WTR-7					\$2,263,420.00
<hr/>					
	Engineering (Private)		15%		\$339,513.00
	Contingencies (Private)		9.90%		\$224,078.58
	Total WTR-7				\$2,827,011.58
	ENR Escalate from 2006 to 2020		44.85%		\$1,267,914.69
	Total WTR-7				\$4,094,926.27
	Metro Air Park PFFP Table A3 - WTR-7				\$4,095,000.00

Section J
Transit Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Light Rail Contribution
 Phase 1AA
 T-1

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
Light Rail (Power Line Road to Lone Tree Road)					
1)	ROW Acquisition (LMD)	2	AC	\$57,750.00	\$115,500.00
2)	ROW Acquisition (Comm)	4	AC	\$57,750.00	\$231,000.00
Subtotal T-1					\$346,500.00
Total T-1					\$346,500.00
Metro Air Park PFFP Table A3 T-1					\$347,000

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Light Rail Contribution
 Phase 6
 T-2

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
Light Rail (Power Line Road to Lone Tree Road)					
1)	Construction and Rolling Stock Contribution (2018/19)	1	LS	\$2,900,000.00	\$2,900,000.00
Subtotal T-2					\$2,900,000.00
Total T-2					\$2,900,000.00
	Escalate from 2019 to 2020	5%			\$145,000.00
Subtotal T-2					\$3,045,000.00
Metro Air Park PFFP Table A3 T-2					\$3,045,000

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Light Rail Contribution
 Phase 1AA
 T-3

May 2020

Item	Description	Quantity	Unit	Unit Price	Total
Light Rail (Power Line Road to Lone Tree Road)					
1)	Light Rail Station Site Acquisition	2	AC	\$57,500.00	\$115,000.00
Subtotal T-3					\$115,000.00
Total T-3					\$115,000.00
Metro Air Park PFFP Table A3 T-3					\$115,000

Section K
Fire Service Projects

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Fire Station Facilities
 Phase C
 FS-1

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
1)	Fire Station Construction*	1	LS	\$5,800,000.00	\$5,800,000.00
Subtotal FS-1					\$5,800,000.00
	Engineering (Private)	25%			\$1,450,000.00
	Contingencies (Private)	20%			\$1,149,850.00
Total FS-1					\$8,399,850.00
	Contribution from others (City)				\$1,260,000
	MAP Share of Fire Station Construction				\$7,139,850
	Metro Air Park PFFP Table A3 FS-1				\$7,140,000

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Fire Station Facilities
 Phase 1A
 FS-2

Item	Description	Quantity	Unit	Unit Price	Total
1)	Land Acquisition (COMM)	1	AC	\$47,250.00	\$47,250.00
Subtotal FS-2					\$47,250.00
Total FS-2					\$47,250.00
Metro Air Park PFFP Table A3 FS-2					\$47,250.00

Section L
Advanced Funding Cost

ATTACHMENT 2

Preliminary Estimate of Costs For Metro Air Park
 Reimbursement of Advanced Funds
 Phase 3
 RMB-3

					May 2020
Item	Description	Quantity	Unit	Unit Price	Total
Reimbursement of advanced funds for PFFP update and Fee Program Implementation					
1)	Reimbursement of Advanced Funds	1	LS	\$420,000.00	\$420,000.00
Subtotal RMB-3					\$420,000.00
Total RMB-3					\$420,000.00
Metro Air Park PFFP Table A3 RMB-3					\$420,000