

	A STATE OF THE PARTY OF THE PAR	sitor Cente		711-	Corte		
	Conceptual Opinion of Pr						
	Development Program "Par Matrix Desig			nrras	tructure	100	
		gn Group, II er 5, 2017	16.				
Section 1 G	Insite Demolition, Grading and Erosion Control	Quantity	Unit	4 1	Unit Cost		Total Cost
1.a	Remove Asphalt Mat	15,131	sy	\$	7.25	\$	109,
1.b	Remove Concrete Curb & Gutter	2,400	If	S	6.00	\$	14,
1.c	Clearing & Grubbing	32	Ac	\$	2,100.00	5	67,
1.d	Strip 6" and Stockpile	32 250.000	Ac	\$	2,750 00	5	88,
1.e 1.f	Cut/Fill within 0.2' Fine Grade	8,583	cy	\$	4,85 1,50	5	1,212,
1.g	Import Fill	40,000	cy	s	1.30	s	12,
1.h	Import Structural Fill	5,000	су	\$	55.00	5	275,
1.1	Erosion Control	1	ls	5	250,000.00	\$	250,
1.J	Retaining Wall <5' Tall	300	If	5	175.00	5	52,
1.k	Retaining Wall 6'-10' Tall	450	lf	\$	350.00	5	157,
			The same		Subtatal - Section 1	5	2,239,
	ublic Roadway Infrastructure Improvements	Quantity	Unit		Unit Cost		Total Cost
2.a 2.b	4" Hot Bituminous Asphalt Roadway	6,560	ton	5	115.00 18.00	5	754,
2.c	6" Median Curb (12" pan) 8" Roadway Curb (24" Pan)	7,568 2,676	If .	S	24.00	\$	136, 64,
2.d	8" Class VI Base Course	6,480	CY	s	55.00	ŝ	356,
2.e	6' Concrete Crosspan	2,700	sf	s	9.00	5	24,
2.f	6' Pedestrian Sidewalk	2,676	sf	S	5.50	S	14,
2.g	Handicap Access Crossing	10	ea	\$	2,500.00	\$	25,
2.h	Roundabout concrete paving	5,025	sf	\$	18.00	\$	90,
2.1	NorthGate Sawcut/Pavement Patch	8,000	sf	\$	24.00	\$	192,
2.j	22' Street Lights Decorative - Dark Sky Compliant	26	63	\$	6,500.00	\$	169,
2.k 2.i	Pedestrian Bridge 16'x220' Vistor Center- Hotel Traffic Signage and Striping	3,520 1	sf Is	\$	300 00 15,000 00	\$	1,056, 15,
6.1	Traine signage and striping	-	1.0	_	Subtotal - Section 2	\$	2,897,
Section 3 P	ublic Water Main Infrastructure	Quantity	Unit		Unit Cost	_	Total Cost
3.a	8" PVC Water Main with Bends and Valves (Trenchin	135	If	5	65.00	5	8.
3.b	16" HDPE Water Main Loop	8,744	lf	5	105.00	\$	918,
3.c	36" Steel Encasement (Directional Drill CDOT ROW)	600	lf.	5	1,000.00	5	600,
3,d	Fire Hydrant w/ 6" Fire Lateral Assembly	15	ea	\$	5,000.00	\$	75,
3.e	Sawcutting & Pavement Removal	2,500	sf	\$	5.00	5	12,
3.f	Replace Subgrade and Asphalt Air Release Station	2,500 3	sf ea	5	32.50 12,500.00	\$	81,
3.g	Air nelease station	3	ea		Subtotal - Section 3	5	37, 1,733,
Section 4 P	ublic Sanitary Sewer Infrastructure	Quantity	Unit	The Co	Unit Cost		Total Cost
4.a	8" PVC Mainline	1,482	If	\$	60.00	\$	88.
4,b	4" HDPE Siphon Line Trenched	4,645	lf	\$	25.00	5	116,
4.c	4" HDPE Siphon Line - Bore & Jack w/ 12" Casing	300	lf	\$	300.00	5	90,
4.d	5' Diameter Manhole <12'	5	ea	\$	5,000.00	\$	25,
4.e	Sewer Lift Station Duplex Pumps	1	ea	\$	1,250,000.00	\$	1,250,
4.1	Check Valves 6' Manhole with Sewer Tie-in to Gravity Main	4	ea ea	5	750.00 5,000.00	\$	3,
	Sawcutting & Pavement Removal	2,950	ea sf	\$	5,000.00	\$	5, 14,
4.g					3.00	-	95,
	Replace Subgrade and Asphalt	2,950	sf	5	32.50	\$	
4.g 4.h				-	32.50 Subtotal - Section 4	\$	1,688,
4.g 4.h 4.i	Replace Subgrade and Asphalt	2,950		-	Subtotal - Section 4	_	1,688,
4.g 4.h 4.i			sf	-	The state of the s	_	1,688, Total Cost
4.g 4.h 4.i	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure	2,950 Quantity	sf		Subtotal - Section 4 Unit Cost	\$	1,688, Total Cost 25,
4.g 4.h 4.i Section 5 P 5.a	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole	Quantity 5	sf Unit ea	\$ \$	Subtotal - Section 4 Unit Cost 5,000.00	\$	1,688, Total Cost 25, 44,
4.g 4.h 4.i Section 5 P 5.a 5.b 5.c 5.d	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft COOT Inlet 18" RCP Pipe 24" RCP Pipe	2,950 Quantity 5 8 1,250 950	unit ea ea if	\$ \$ \$	Subtotal - Section 4 Unit Cost 5,000.00 5,500.00 80.00 95.00	\$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90,
4.g 4.h 4.i Section 5 P 5.a 5.b 5.c 5.d 5.c	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000.00 5,500.00 80.00 95.00 125.00	\$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96,
4.g 4.h 4.i Section 5 P 5.a 5.b 5.c 5.d	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft COOT Inlet 18" RCP Pipe 24" RCP Pipe	2,950 Quantity 5 8 1,250 950	unit ea ea if	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00	\$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700,
4.g 4.h 4.i Section 5 P 5.a 5.b 5.c 5.d 5.c	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000.00 5,500.00 80.00 95.00 125.00	\$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700,
4.g 4.h 4.i Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00	\$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal - Section 5	\$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond ess: are based on the Conceptual Site Design by Matrix of November 2017.	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00	\$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Nota 1. Quantities Design Group 2. Totals and	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond	2,950 Quantity 5 8 1,250 950 775	Unit ea ea If If	\$ \$ \$ \$ \$	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000 00 Subtotal - Section 5 Subtotal Hard Costs Johnson Scope Reduction	\$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year,	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix of November 2017. Unit Prices are calculated in Present Worth or Present is, Adjustments should be made for years beyond the it to better estimate needed capital dollars if used as a	2,950 Quantity 5 8 1,250 950 775	unit ea ea If If If ea	S S S S S S S S S S S S S S S S S S S	Unit Cost	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 9,615, 1,866, 7,748,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year future capita	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft COOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix of November 2017. Unit Prices are calculated in Present Worth or Present is, Adjustments should be made for years beyond the to better estimate needed capital dollars if used as a limprovement plan.	2,950 Quantity 5 8 1,250 950 775	unit ea ea if if ea	S S S S S S S S S S S S S S S S S S S	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal - Section 5 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs	\$ \$ \$ \$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 1,866, 7,748,
4.g 4.h 4.l Section S P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year, future capita 3. This summ	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18 RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix o November 2017. Unit Prices are calculated in Present Worth or Present and Adjustments should be made for years beyond the to better estimate needed capital dollars if used as a limprovement plan. Improvement plan.	2,950 Quantity 5 8 1,250 950 775	unit ea ea If If If ea	S S S S S S S S S S S S S S S S S S S	Subtotal - Section 4 Unit Cost 5,000 00 5,500 00 80.00 95 00 125 00 350,000 00 Subtotal - Section 5 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 9,615, 1,866, 7,748,
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year, future capita 3. This summ estimating pu	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18° RCP Pipe 24° RCP Pipe 36° RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix a November 2017. Unit Prices are calculated in Present Worth or Present to better estimate needed capital dollars if used as a 1 improvement plan. harry of probable conceptual costs was prepared for unposes only. Matrix Design Group can not be held	2,950 Quantity 5 8 1,250 950 775	sf Unit ea ea If If If ea 1.5% 8.0% 1.5%	S S S S S S S S S S S S S S S S S S S	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal - Section 5 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs Ey In Engineering	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 1,866, 7,748,
4.6 4.1 Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f Section 5 P General Note 1. Quantities Design Group 2. Totals and Value Dollars present year, future capita 3. This summer stimating presponsible for presponsible for the presponsible for the summer stimating presponsible for the presponsible for the summer stimating presponsible for the summer stimating presponsible for the summer su	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft COOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond ess: are based on the Conceptual Site Design by Matrix 5 November 2017. Unit Prices are calculated in Present Worth or Present 6, Adjustments should be made for years beyond the 1, to better estimate needed capital dollars if used as a 1 improvement plan. lary of probable conceptual costs was prepared for urposes only. Matrix Design Group can not be held or variances from this estimate as actual costs may vary	2,950 Quantity 5 8 1,250 950 775	sf Unit ea ea If If If ea 1.5% 8.0% 1.5% 1.25%	S S S S S S S S S S S S S S S S S S S	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal - Section 5 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs Ey In Engineering In	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 9,615, 1,866, 7,748,
4.g 4.h 4.i Section S P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year, future capita 3. This summ estimating pr responsible f due to bid, m	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18° RCP Pipe 24° RCP Pipe 36° RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix a November 2017. Unit Prices are calculated in Present Worth or Present to better estimate needed capital dollars if used as a 1 improvement plan. harry of probable conceptual costs was prepared for unposes only. Matrix Design Group can not be held	2,950 Quantity 5 8 1,250 950 775	sf Unit ea ea ea If If thea 1.5% 8.0% 1.5% 1.25% 1.25%	S S S S S S S S S S S S S S S S S S S	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs Expression Engineering the Engineering the Engineering Total Material Testing A/CM Partor Soft Costs*	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 9,615, 1,866, 7,748, 144,225, 169,226,144,225, 120,191,929,848
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year future capita 3. This summ estimating presponsible f due to bild " - Soft Costs	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft COOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix o November 2017. Unit Prices are calculated in Present Worth or Present is, Adjustments should be made for years beyond the it observes the series of the series are calculated in Present worth or Present in the process of the process o	2,950 Quantity 5 8 1,250 950 775	sf Unit ea ea lf lf lf ea ea 1.5% 8.0% 1.5% 1.25% 1.25% 1.25%	Soft of Survey Designation of CE/Co.	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs Experimental Testing A/CM ractor Soft Costs* scape and Irrigation	* * * * * * * * * * * * * * * * * * * *	1,688, Total Cost 25, 44, 100, 90, 96, 700, 1,056, 9,615, 1,866, 7,748, 144,225, 769,226, 144,225, 120,191, 929,848, 1,201,916
4.g 4.h 4.l Section 5 P 5.a 5.b 5.c 5.d 5.e 5.f General Note 1. Quantities Design Group 2. Totals and Value Dollars present year future capita 3. This summ estimating presponsible f due to bild " - Soft Costs	Replace Subgrade and Asphalt ublic Storm Sewer Infrastructure Type 1 Manhole 10-ft CDOT Inlet 18" RCP Pipe 24" RCP Pipe 36" RCP Pipe Water Quality/ Ex Detention Pond es: are based on the Conceptual Site Design by Matrix o November 2017. Unit Prices are calculated in Present Worth or Present is, Adjustments should be made for years beyond the to better estimate needed capital dollars if used as a 1 improvement plan, hary of probable conceptual costs was prepared for urposes only. Matrix Design Group can not be held or variances from this estimate as actual costs may vary harket and economic fluctuations. swith " are adjusted for Hard Costs less GE Johnson	2,950 Quantity 5 8 1,250 950 775	sf Unit ea ea ea If If If ea 1.5% 8.0% 1.5% 1.25% 1.25% 1.25%	Soft Control	Subtotal - Section 4 Unit Cost 5,000 00 5,500.00 80.00 95.00 125.00 350,000.00 Subtotal Hard Costs Johnson Scope Reduction Total Hard Costs Expression Engineering the Engineering the Engineering Total Material Testing A/CM Partor Soft Costs*	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,688,

Total Public Costs \$ 12,984,815.43

EUL - USAFA VISITOR CENTER

December 8, 2017



CONCEPTUAL COST MODEL REPORT

EXECUTIVE SUMMARY

This conceptual programmatic cost model is for a proposed four-story, 29,504 nsf (36,971 gsf) facility. This structure is proposed to support relocation of the AFA Visitor Center located in Colorado Springs, Colorado.

The intent of this conceptual budget is developed in order to support the Architectural Inspiration and vision communicated in the RFP response. GE Johnson Construction has had the privilege of managing the cost development process for the US Olympic Museum located in Colorado Springs. These recent budgeting efforts in turn, have provided this team with valuable systems data necessary to support the comparable vision of this project.

Factors for developing budgeting at this stage should include, but not be limited to, site location / condition, architectural inspiration and performance of interior and exterior environmental systems. It is our team's intent to continue our collaboration with Fentress Architects and the Air Force Academy to achieve a program and design representative of this cost forecast, or a mutually agreed upon target value design.

AREA / PROGRAM SUMMARY	
	GBA (sf)
Museum / Welcome Center / Entry Atrium	15 638
Gift Shop	5,773
Back of House / Storage	8,093
Building - Net SF Area	29,504
Circulation / Mech & Elec Spaces	7,467
Building - Gross SF Area	36,971

PROJECT COSTS

Development Fees, Plan Review and Impact Costs	Included
Design and Engineering	Included
Escalation Contingency	Included
Special Sys. (Audio/Visual, Low Voltage & Tele/Data)	By Others
Exhibits and Graphics	By Others
Fixtures, Furnishings, Art. etc.	By Others

CONSTRUCTION SCHEDULE

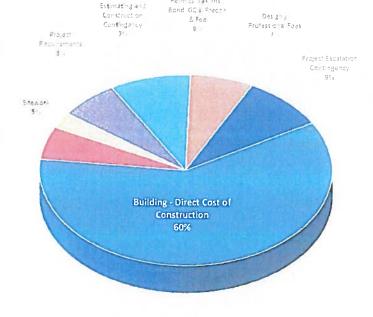
Based upon 13-15 month duration
Excavation and foundations completed outside of winter months
Enclosure dry-in within Summer/ Fall months

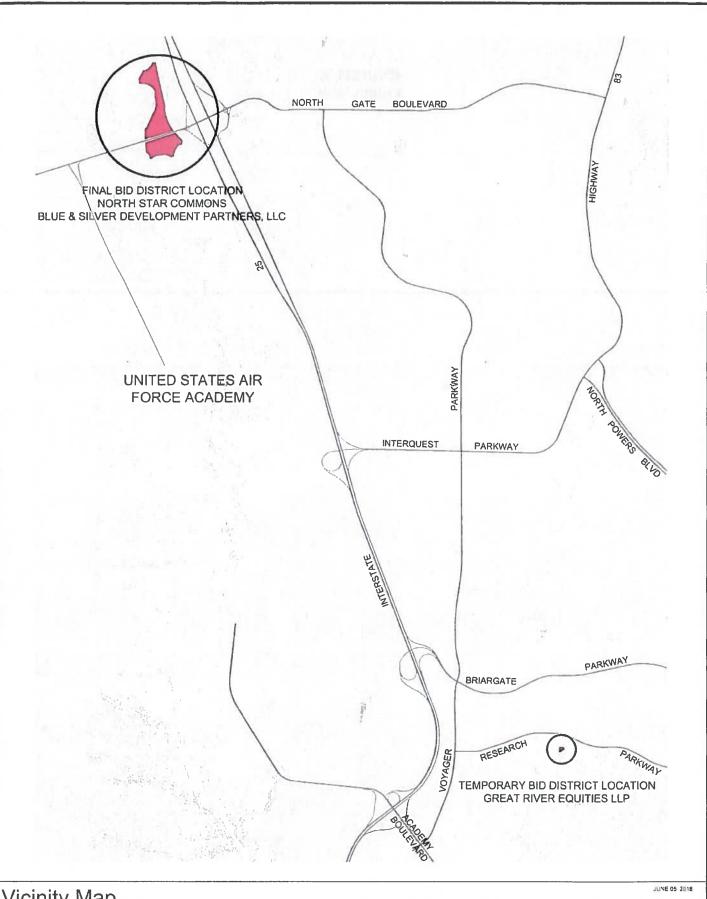
DESIGN / SCOPE ASSUMPTIONS

Construction Type II-B to accommodate Type Use. Occupancy Groups and Areas, II-B non-separated mixed use

SITE WORK	Reference separate Site Infrastructure budget
FOUNDATION	Shallow foundations with 5" slab-on-grade
	Basement is not included.
STRUCTURE	Structural steel and braced frames
	Four partial story structure with a frum for static display.
EXTERIOR	Envelope includes a combination of glass curtainwall,
	stone veneer panels and metal soffit & roofing.
	Curved elements constructed with series of straight
	segments
INTERIORS	Front of House finishes to be appropriate for a Visitor Center.
	Back of House will have functional finishes.
	Majority of structure to be exposed to view.
CONVEYING	4-Stop elevator with UP escalator serving 3 Levels
MECHANICAL	Global approach is a stand-alone system utilizing
	gas fired AHU's with DX Cooling (1.25cfm/sf).

CONSTRUCTION COST SUMMARY		
	\$/GBA	Total S
Building - Direct Cost of Construction	546	20,168,225
Project Requirements	24	905,245
Estimating and Construction Contingency	60	2,212,714
Permits, Tax, Ins., Bond, GC's, Precon & Fee	81	2,995,415
Escalation (See Below)		-
Total Building Construction		26,281,599
On-Site Infrastructure / Plaza / Landscape Improvements		1,866,596
Design / Professional Fees		2,365,344
Project Escalation Contingency		3,051,354
PROJECT COST SUMMARY		33.564.893





Vicinity Map

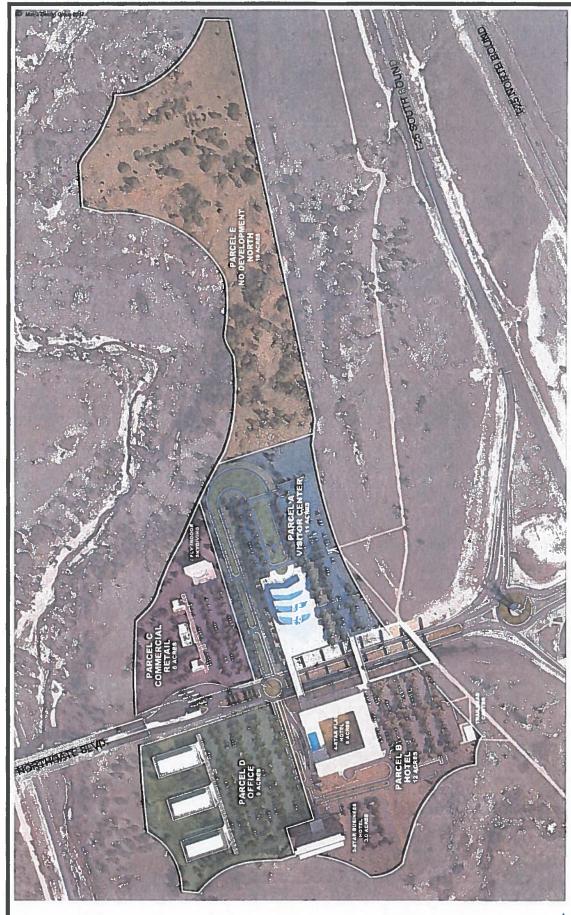
Enhanced Use Leasing Project United States Air Force Academy Colorado Springs, Colorado

DEVELOPMENT PARTNERS LLC





USAFA EUL OVERALL SITE PLAN





U.S. AIR FORCE