)escrip	otion		Со	mponent Cost	% of Subto			
A. SUB	STRUCTURE Foundation	Sheet Piles, Geopiers, Strip and Spread Footings, Cast-In-Place Foundation Wall, Slab on Grade	\$	779,989.00	7.8%			
SHEL	L							
10	Superstructure	Cast In Blace concrete with corregated metal decking	ċ	196 245 00				
	Sheel Shrushure	Misture of comparity and non-comparity stand	ڊ م	1 1 4 0 6 1 1 0 0				
	Steel Structure	Mixture of composite and non-composite steel	Ş	1,140,611.00	15.1%			
	Masonry	CMU stairwell and elevator shafts and backup walls	\$	184,505.00				
20	Exterior Enclosure	2" structural concrete 2" inculation 2" architectural concrete		228 215 00				
	Insulated Precast Concrete Panels	s structural concrete, s insulation, s architectural concrete	Ş	338,213.00				
	Curtain Wall	Storefront glazing and mullion system	Ş	88,345.00	5.1%			
	Doors and Windows	Single and double doors for access into the building	\$	88,983.00				
30	Roofing Natural HVAC Chimneys and	EPDM roofing, single ply with metal roof decking	\$	4,595.00	0.05%			
INTE	Stairwell/Elevator Towers							
	Wall Partitions	Gypsum on metal studs and translucent glass	\$	442,612.00				
	Raised Floor System	ConCore 1000 with Posilock	\$	1,442,540.00				
	Doors	Single and double doors	¢	87 360 00	0			
	Stationard		Ý	252 400 00	25.2%			
	Staircases	Cast-In-Place concrete with metal frame	ې د	253,400.00				
SERV	/ICFS	runn, drop cennig, und exposed cennig misnes	Ţ	504,205.00				
0	Conveying							
	Elevator	Class A	\$	125,000.00	1.2%			
0	Plumbing Diping and Fittings	Inculated domestic bot and cold and capitany lines	ċ	42 990 00				
	Piping and Fittings	insulated domestic not and cold and sanitary lines	Ş	43,990.00				
	Accessories	Traps and drains	Ş	8,200.00	0.8%			
	Fixtures	Lavatories, Water Closets, Urinals, Shower Stalls, and Drinking Fountains	\$	29,010.00	0.070			
	Equipment	Water heater	\$	1,130.00				
0	HVAC	Poetangular, Round, and Elovible Duct with inculation and UEAD Blonum Dividers	ċ	21 796 00				
			ڊ م	31,780.00				
	Ductwork Accessories	Damper and Reheat Coil Assemblies, VAV Terminals with Hot Water Reheat Assemblies, Heating and Cooling Coils, and Mechanical Room Grates	ş	1/0,3/7.00				
			ې د	44,567.00 20.1				
	Piping and Fittings	Condenser, Chilled, and Hot water Piping with Insulation, and Valves	\$	65,096.00				
	Equipment	Anerobic Digester, Microturbine, Air Handling Unit, Absorption Chiller, Pumps, Heat Exchangers, Geothermal Well, Water Storage Tank, and Senors	Ş	1,733,345.00				
	Temperature Control	Fin Tube Radiators and Chilled Beams	Ş	53,849.00				
0	Fire Protection Standard Sprinkler and Standpipe System	Overhead System	Ś	348,706,00	0.50			
'n	Electrical		Ť	,	3.5%			
•	Wire	THWN Branch and Feeder wiring	\$	68,555.00				
	Conduit	EMT Branch and Feeder conduit	\$	84,121.00				
	Communications	Tele/Data cable, fiber optic cable, network hub, and patch panel	Ś	75,113,00				
	Electrical Fixtures and Accessories	Switches, Recentedes, Dull Reves, Junction Reves, and Wire Terminations	č	10 630 00				
	Electrical Fixtures and Accessories	Switches, Receptacies, Pull Boxes, Junction Boxes, and wire reminations	ې	18,038.00	8.6%			
	Equipment	Panelboards, Switchgear Breakers, and Transformer	Ş	88,317.00				
	Lighting Fixtures and Controls	Grow lights, downlights, pendants, troffers,	\$	480,355.00				
	Solar Panels	Photovoltaic Array Panels on the first floor awning	\$	45,500.00				
EQU	IPMENT & FURNISHINGS							
	Coolers and Freezers	Walk-In on-site assembly coolers and freezers	Ş	143,805.00	D 40/			
	Interior Furnishings	Greenhouse tables, office and classroom furniture, kitchen equipments and furniture, and produce display shelving	\$	98,785.00	2.4%			
SPEC	CIAL CONSTRUCTION	Polycarbonate Glazing and Stool Mullion System	ć	6/6 11/ 00				
	oreennouses	er and the second fill and the second state of	ې ب	040,114.00				
	Natural HVAC Towers	Steel structure, CMU infill, and EIFS with grates and ladders for maintenance access	Ş	241,463.00	9.1%			
	Greenhouse HVAC Shaft	2" CMU 2'x4' shafts for air circulation and temperature control	\$	21,462.00				
BUI	General Site Construction	Excavation, Dewatering, and Polypavement	\$	18,960.00	0.100			
		Sub-Tota GCs Synthesis Contingency (5%) Owner Contingency - Unforeseen Conditions (1%)	\$; \$; \$; \$	10,028,033.00 689,823.00 501,402.00 100,281.00	0.197			

General Conditions Cost Estim	ate		
Description	Quantity Unit	Unit Price	Total Price
Administration			
Project Staff			
Superintendent	1299 Hrs	\$ 65.00	\$ 84,435
Project Manager	1385.6 Hrs	\$ 75.00	\$ 103,920
Project Engineer	1385.6 Hrs	\$ 50.00	\$ 69,280
Project Management			
Job Office Furnishings	3 Ea.	\$ 1,250.00	\$ 3,750
Job Office Kitchen Equipment	1 LpSm	\$ 1,500.00	\$ 1,500
Job Office Copier	7 Mo.	\$ 550.00	\$ 3,850
Job Office Cellphone	21 Mo.	\$ 100.00	\$ 2,100
Job Office T-1 Setup	1 LpSm	\$ 5,000.00	\$ 5,000
Job Office T-1 Charges	7 Mo.	\$ 150.00	\$ 1,050
Job Office Set-Up (Leaderheads, etc.)	1 LmSm	\$ 500.00	\$ 500
Office & Miscellaneous Supplies	7 Mo.	\$ 1,500.00	\$ 10,500
Meal Expense	7 Mo.	\$ 500.00	\$ 3,500
Drawing/Specification Reproduction	1 LpSm	\$ 5,000.00	\$ 5,000
Elevator Permitting	1 LpSm	\$ 5,000.00	\$ 5,000
Special Certifications	1 LpSm	\$ 5,000.00	\$ 5,000
Safety	1 LpSm	\$ 5,000.00	\$ 5,000
Fire Extinguishers (1 per 5,000 SqFt)	14 Ea.	\$ 150.00	\$ 2,100
First Aid Kit	1 LpSm	\$ 750.00	\$ 750
Technology	1 Ea.	\$11,750.00	\$ 11,750
Emergency Response Kit (AEDs)	1 Ea.	\$ 2,000.00	\$ 2,000
Quality Requirements			
Quality Control			
Rodent Control	40 Hrs.	\$ 100.00	\$ 4,000
Testing and Inspection			
Settlement Monitoring & Surveying	160 Hrs.	\$ 200.00	\$ 32,000
Initial Survey	1 Wk.	\$25,000.00	\$ 25,000
Temporary Facilities and Controls			
Temporary Barriers			
Chain Link Fence	905.25 LnFt	\$ 6.00	\$ 5,432
20' Fence Gates	2 Ea.	\$ 750.00	\$ 1,500
Toeboards	646 LnFt	\$ 4.00	\$ 2,584
Railings	646 LnFt	\$ 20.00	\$ 12,920
Walkways	200 LnFt	\$ 1.00	\$ 200
Ladders and Stairs	1 LpSm	\$25,000.00	\$ 25,000
Perimeter Debris Netting	646 LnFt	\$ 0.55	\$ 355
Remove Perimeter Safety Cable	1 LpSm	\$ 1,000.00	\$ 1,000
Temporary Facilities			
Storage Shed	7 Mo.	\$ 800.00	\$ 5,600
Waste Management			
Dumpsters	60 Ea.	\$ 450.00	\$ 27,000
Rubbish Carts	10 Ea.	\$ 200.00	\$ 2,000
Construction Aids			
120 Ton All Terrain Crane	10 Days	\$ 3,100.00	\$ 31,000
Crane Mobilization/Demobilization	2 Each	\$ 4,300.00	\$ 8,600
Pick-Up Trucks	7 Mo.	\$ 700.00	\$ 4,900
Miscellaneous Small Tools	1 LpSm	\$10,000.00	\$ 10,000
Elevator Protection	1 LpSm	\$ 2,000.00	\$ 2,000
Elevator Operators	16 Wk.	\$ 1,050.00	\$ 16,800
Geofabric and Stone	9826 SqFt	\$ 3.00	\$ 29,478
Build and Remove Ramp	20 SqFt	\$ 4.15	\$ 83
Temporary Utilities			
Electricity	3 Mo.	\$ 5,000.00	\$ 15,000
Heating	4 Mo.	\$ 5,000.00	\$ 20,000
Drinking Water	7 Mo.	\$ 250.00	\$ 1,750
Toilets/Port-a-Johns	7 Mo.	\$ 350.00	\$ 2,450
Execution and Closeout Requirements			d
Execution			
Project Signs	1 Ea.	\$ 1,000.00	\$ 1.000
Local Travel-Field Personnel	7 Mo.	\$ 1,750.00	\$ 12,250
Building Water Hook-Up	1 LoSm	\$ 1.000.00	\$ 1.000
Cleaning		, ,	,
Final Cleaning	59282 SaFt	\$ 0.50	\$ 29.641
Snow Removal	1 I nSm	\$ 2.500.00	\$ 2,500
Truck Wash	1 Fa	\$ 5.000.00	\$ 5,000
Site Cleanup	1040 Hrs	\$ 15.00	\$ 15.600
SUBTOTAL	1010 1113	÷ 10.00	\$ 670,620
Bond Dramiums	10/		¢ 6.706
	1/0		ა 0,/30 ბ ავიი
CDAND TOTAL	0.30%		> 3,378
GRAND TOTAL			ş 089,822

Bid Packages

No.	Туре	Со	nt
BP-1	Demolition	\$	
BP-2	Concrete	\$	
BP-3	Steel	\$	1
BP-4	Masonry	\$	
BP-5	Roofing	\$	
BP-6	Polycarbonate System	\$	
BP-7	General Trades	\$	3
BP-8	Paint	\$	
BP-9	Fire Protection	\$	
BP-10	Mechanical and Plumbing	\$	1
BP-11	Electrical	\$	
BP-12	Raised Access Flooring	\$	
BP-13	Sitework	\$	
BP-14	Geothermal Wells	\$	
BP-15	Anerobic Digester	\$	1
BP-16	Specialty Equipment	\$	
BP-17	GeoPiers	\$	















1 Basement 3/16" = 1'-0"



2 Basement 3D Perspective

S Team Number Date Drawn By

Scale







2 Level 1 3d Perspective





1 <u>Level 2</u> 3/16" = 1'-0"



2 Level 2 3D Perspective Copy 1

S Team Number Date Drawn By

Scale





1 <u>Level 3</u> 3/16" = 1'-0"

		,			 	



2 Level 3 3D Perspective





1<u>Level 4</u> 3/16" = 1'-0"













