

Warm Springs Innovation Center Fremont, CA

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March 2, 2018 Project No:JE6016.110

Report by MGAC

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Project Overview

Description

The project comprises a feasibility study for a new innovation center building in the City of Fremont which would be constructed on an existing vacant site of approximately 22,000 gross square feet. Program areas will include an innovation hall, creative office space, event space, adaptable manufacturing space and education space (classrooms and training facilities).

The study considers three building schemes ranging in size from 75,000 gross square feet to 203,000 gross square feet, together with associated subterranean parking for each scheme.

Building Design

The cost plan reflects a concrete framed building founded on conventional wall and column footings for Scheme S and deep pile foundations for Schemes M and L. The exterior envelope assumes 75% glazing and 25% solid materials, with membrane roofing at flat roofs and pedestal pavers at accessible roof decks.

Allowances are included for interior partitions, doors, fixed accessories, finishes and built-in cabinets and countertops at spaces fitted-out as part of the project scope of work.

Fire exit stairs and an architectural stair at the two story lobby are included together with traction passenger and freight elevators.

Allowances are included for MEP and fire protection systems.

Site Conditions

The existing site is assumed to be clear and level with minimal preparation work required. Allowances are included for finished paving and landscaping, storm drainage systems and site lighting, and utility connections to the building.

Procurement

The City has not determined the actual method of procurement at this time, so the cost plan reflects a traditional design-bid-build method of procurement.



Basis of Cost Plan

Documents / Drawings

Conceptual Overview for ROM dated February 26, 2018

Schedule

All costs reflect current (March 2018) pricing and market conditions. Allowances are shown for cost escalation for 3, 5 and 7 year options

Assumptions / Clarifications

Procurement based on design-bid-build with competitive bidding for both general contractor and all major subcontract packages

Costs reflect union labor requirements

Costs assume a minimum building life of 50 years for shell and major systems including MEP

Costs reflect a LEED gold equivalency

Scheme S is not classified as a high-rise building

Schemes M and L are classified as a high-rise building

The following items are excluded:

Work outside of the defined site boundary including off-site utility work

Work associated with the adjacent plaza / park

Helipads

Raised access floors

Fit-out of creative office space

Fit-out of adaptable manufacturing space

Project Budget Allocation

The information below identifies the assumptions included in this cost report relative to allocation of costs. Items listed under construction costs are included in the cost estimate and are anticipated to be part of the construction contract. Items listed under project soft costs are not included in the cost estimate and are assumed to be provided under a separate budget. Items listed as "not applicable" are assumed not to be included in any budget as the item is not required.

	ltem	Pro	ect Capital C	osts	Notes.
		Construction Cost.	Project Soft Cost.	Not Applicable.	
I.	PROPERTY ACQUISITION / DEVELOPMENT				
	Removal of existing buildings and structures			٧	
	On-Site Utilities Relocation and/or Removal	٧			
	Off-Site Utilities Improvements		٧		
	Connection to Utilities (charges and fees)		٧		
	Street/sidewalk improvements			٧	
	Moving and Relocation Expenses			√	
II.	HAZARDOUS MATERIAL ABATEMENT				
	Building			٧	
	Site		٧		
III.	PROFESSIONAL SERVICES				
	Architecture and Engineering Design Fees		٧		
	Project Management Fees		٧		
	Geotechnical & Survey		٧		
	Materials Testing & Inspection		٧		
	Third Party Commissioning		٧		
	LEED Consultant Fees		٧		
	LEED Certification Fees		√		
IV.	SYSTEMS, FURNISHINGS & EQUIPMENT				
	a. BUILDING SYSTEMS				
	Uninterruptible Power Supplies (UPS)		٧		
	Security Cabling & Equipment	٧			Excludes cameras
	Telecom / AV / Data Network; Routers, Switches		٧		Conduit and pull wire only ir construction cost
	Communication Cabling	٧			
	Audio-Visual Equipment and Cabling		٧		
	Building Controls Systems	٧			
	b. FURNITURE				
	Loose Furniture		٧		
	Office Furniture		٧		



Project Budget Allocation

The information below identifies the assumptions included in this cost report relative to allocation of costs. Items listed under construction costs are included in the cost estimate and are anticipated to be part of the construction contract. Items listed under project soft costs are not included in the cost estimate and are assumed to be provided under a separate budget. Items listed as "not applicable" are assumed not to be included in any budget as the item is not required.

Item	Pro	ject Capital Co	osts	Notes.	
	Construction Cost.	Project Soft Cost.	Not Applicable.		
c. FURNISHINGS					
Window Treatments	٧				
Markerboards and tackboards	٧				
Lockers	٧				
Site Furniture	٧				
d. EQUIPMENT					
Building Maintenance / Window	-1			Fall arrest devite anly	
Washing Equipment	٧			Fall arrest davits only	
Manufacturing Equipment		٧			
Laboratory Equipment		٧			
Residential Kitchen Appliances	√				
Commercial Kitchen Equipment	√				
Retail Furnishings & Equipment		٧			
Parking Equipment	٧				
e. SIGNAGE					
Directional Signage	√				
Informational and Identification Signage	٧				
Code Required Signage	٧				
f. PROCUREMENT					
Pre-construction Services		٧		Procurement based on design-bid-build	
Bonds	√				
Insurance	٧			Professional liability insurance by Contracto	
g. CONTINGENCIES					
Design Contingency	٧				
Construction Contingency		٧			
Owner's Contingency		٧			
h. ESCALATION					
Labor & Material Escalation		٧		Not included in base co	



Comparison summary - All Schemes

		_	cheme S x 1,000	Scheme M \$ x 1,000	Scheme L \$ x 1,000
B1	Scheme S Building		40,942	64,252	105,221
P1	Subterranean Parking		3,888	8,980	12,932
S1	Sitework		1,155	1,155	1,155
REC	OMMENDED CONSTRUCTION BUDGET, Mar	rch 20 ⁻	45,984	74,387	119,307
Z30	Escalation Allowances				
Z31	3 Years 14	4.65%	6,737	10,898	17,478
Z32	5 Years 24	4.00%	11,036	17,853	28,634
Z33	7 Years 34	4.12%	15,690	25,381	40,708



Overall Summary - Scheme S

			SF	\$/SF	TOTAL	%
					\$ x 1,000	
B1	Scheme S Building		75,000	545.89	40,942	89%
TOT	AL BUILDING				40,942	89%
P1	Subterranean Parking		24,100	161.32	3,888	8%
S1	Sitework		22,074	52.31	1,155	3%
TOT	AL BUILDING AND SITEWORK				45,984	100%
REC	OMMENDED CONSTRUCTION BUDGET, M	larch 2018			45,984	100%
Z30	Escalation Allowances					
Z31	3 Years	14.65%			6,737	
Z32	5 Years	24.00%			11,036	
Z33	7 Years	34.12%			15,690	



Scheme S Building Areas

	SF				SF
Areas					
Enclosed Areas			Program Are	as	
First Floor	16,000		Innovation H	Hall	32,000
Second Floor	16,000		CEM		16,000
Third Floor	16,000		Creative Off	fice	16,000
Fourth Floor	16,000		Event Space	е	11,000
Fifth Floor	11,000				
Subtotal of Enclosed Areas		75,000			
Covered Areas		_			
Subtotal of Covered Areas at 50%		-			
TOTAL GROSS FLOOR AREA		75,000			75,000
Control Quantities					
Control Quantities					Ratio to GFA
Control Quantities Number of stories			5	EA	Ratio to GFA
			5 75,000		
Number of stories			_	SF	0.000
Number of stories Gross Area			75,000	SF SF	0.000 1.000
Number of stories Gross Area Enclosed Area			75,000 75,000	SF SF SF	0.000 1.000 1.000
Number of stories Gross Area Enclosed Area Footprint Area			75,000 75,000 16,000	SF SF SF CF	0.000 1.000 1.000 0.213
Number of stories Gross Area Enclosed Area Footprint Area Volume			75,000 75,000 16,000 1,528,000	SF SF SF CF SF	0.000 1.000 1.000 0.213 20.373
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area		75%	75,000 75,000 16,000 1,528,000 46,200	SF SF SF CF SF	0.000 1.000 1.000 0.213 20.373 0.616
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area		75%	75,000 75,000 16,000 1,528,000 46,200 46,200	SF SF SF CF SF SF	0.000 1.000 1.000 0.213 20.373 0.616 0.616
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing		75%	75,000 75,000 16,000 1,528,000 46,200 46,200 34,650	SF SF CF SF SF SF SF	0.000 1.000 1.000 0.213 20.373 0.616 0.616
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat		75%	75,000 75,000 16,000 1,528,000 46,200 46,200 34,650 8,000	SF SF SF SF SF SF SF SF	0.000 1.000 1.000 0.213 20.373 0.616 0.616 0.462 0.107
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat		75%	75,000 75,000 16,000 1,528,000 46,200 46,200 34,650 8,000 8,000	SF SF SF SF SF SF SF SF	0.000 1.000 1.000 0.213 20.373 0.616 0.616 0.462 0.107
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total		75%	75,000 75,000 16,000 1,528,000 46,200 46,200 34,650 8,000 8,000	SF SF SF SF SF SF SF SF FLT	0.000 1.000 1.000 0.213 20.373 0.616 0.616 0.462 0.107 0.107 0.213
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total Staircase		75%	75,000 75,000 16,000 1,528,000 46,200 34,650 8,000 16,000	SF	0.000 1.000 1.000 0.213 20.373 0.616 0.616 0.462 0.107 0.107 0.213 0.000
Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total Staircase Shelled Area		75%	75,000 75,000 16,000 1,528,000 46,200 46,200 34,650 8,000 16,000 11	SF FLT SF	0.000 1.000 0.213 20.373 0.616 0.616 0.462 0.107 0.107 0.213 0.000 0.213



Scheme S Building Summary

Ref.	Description		%	\$/SF	TOTAL \$x 1,000
			Gross Area:	75,000 SF	
A10	Foundations		1%	6.83	512
A20	Basement Construction		0%	0.00	0
Α	Substructure		1%	6.83	512
B10	Superstructure		14%	77.58	5,818
B20	Exterior Enclosure		15%	82.19	6,164
B30	Roofing		1%	8.00	600
В	Shell		31%	167.76	12,582
C10	Interior Construction		7%	37.13	2,785
C20	Stairways		1%	5.00	375
C30	Interior Finishes		8%	43.20	3,240
С	Interiors		16%	85.33	6,400
D10	Conveying Systems		3%	14.00	1,050
D20	Plumbing Systems		3%	13.93	1,045
D30	Heating, Ventilation & Air Conditioning		8%	45.73	3,430
D40	Fire Protection		1%	7.00	525
D50	Electrical Lighting, Power & Communications		9%	51.47	3,860
D	Services		24%	132.13	9,910
E10	Equipment		0%	1.67	125
E20	Furnishings		2%	8.40	630
E	Equipment & Furnishings		2%	10.07	755
F10	Special Construction		0%	0.00	0
F20	Selective Demolition		0%	0.00	0
F	Special Construction & Demolition		0%	0.00	0
BUIL	DING ELEMENTAL COST BEFORE CONTINGE	NCIES	74%	402.12	30,159
Z10	Design Contingency	15.00%	11%	60.32	4,524
Z11	General Requirements	4.00%	3%	18.50	1,387
BUIL	DING ELEMENTAL COST INCLUDING CONTIN	IGENCIES	88%	480.94	36,070
Z21	General Conditions	7.00%	6%	33.67	2,525
Z22	Bonds & Insurance	2.00%	2%	10.29	772
Z23	Contractor's Overhead, Profit & Fee	4.00%	4%	21.00	1,575
BUIL	DING CONSTRUCTION COST BEFORE ESCAL	_ATION	100%	545.89	40,942
Z30	See Overall Summary for Escalation	0.00%	0%	0.00	0
DECC	DMMENDED BUDGET - March, 2018		100%	545.89	40,942



Feasibility	Study	Cost	Plan
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easibility Study Cost Plan			Scheme	S Building
	Quantity	Unit	Rate	Total
A10 Foundations				
A1010 Standard Foundations				320,000
Reinforced concrete including excavation				
Wall and column footings	16,000	SF	15.00	240,000
Elevator pit including waterproofing	4	EA	20,000.00	80,000
A1020 Special Foundations				
A1030 Slab On Grade				102.000
Concrete slab on grade	16,000	SF	12.00	192,000 192,000
	10,000	SI	12.00	192,000
				512,000
A20 Basement Construction				
A2010 Basement Excavation				
A2020 Basement Walls				
_				0
B10 Superstructure				
B1010 Floor Construction				4 770 050
Suspended floors				4,778,250
Reinforced concrete columns, shear walls, floor slabs and				
beams	59,000	SF	70.00	4,130,000
Miscellaneous				
Amphitheater	5,000	SF	40.00	200,000
Mechanical equipment pads and curbs	1	LS	50,000.00	50,000
Secondary support framing to exterior glazing systems	34,650	SF	5.00	173,250
Miscellaneous metals and support framing	75,000	SF	3.00	225,000
	2,220			



Scheme S Building

	Quantity	Unit	Rate	Total
B1020 Roof Construction				1,040,000
Flat roofs				1,040,000
Reinforced concrete columns, shear walls, roof slabs and beams	16,000	SF	65.00	1,040,000
_				,,
				5,818,250
20 Exterior Enclosure				
B2010 Exterior Walls				1,662,750
Finished walls				
Wall framing, insulation, waterproofing, exterior finish materials	11,550	SF	100.00	1,155,000
Interior finish to exterior wall				
Gypsum board lining with paint finish	11,550	SF	5.00	57,750
Soffits				
Allow for soffits	1	LS	50,000.00	50,000
Balustrades, parapets and roof screens				
Metal balustrades at roof deck, mechanical equipment screen walls	1	LS	150,000.00	150,000
Miscellaneous				
Entry canopies and miscellaneous exterior wall detailing including sunshading	1	LS	250,000.00	250,000
B2020 Exterior Windows				4,331,25
Windows, glazing and louvers				,, -
Insulated high performance curtainwall	34,650	SF	125.00	4,331,250
B2030 Exterior Doors				170,00
Doors, frames and hardware				-,
Glazed entry doors	1	LS	50,000.00	50,00
Steel exit doors	1	LS	20,000.00	20,00
Roll-up doors at plaza and roof deck	1	LS	100,000.00	100,00
_				6,164,000



Scheme S Building

	Quantity	Unit	Rate	Total
B30 Roofing				
B3010 Roof Coverings				600,000
Roofing				
Membrane roofing over rigid insulation, including metal parapet caps, flashings, miscellaneous sheetmetal work	8,000	SF	25.00	200,000
Terrace				
Waterproofing, pedestal pavers	8,000	SF	50.00	400,000
B3020 Roof Openings				
				600,000
C10 Interior Construction				
C1010 Partitions				2,410,000
Partitions and doors				
Metal stud partitions, glazed partitions, wood and glazed doors, balustrades				
Innovation Hall	32,000	SF	50.00	1,600,000
CEM	16,000	SF	30.00	480,000
Creative Office	16,000	SF		Shelled space
Event Space	11,000	SF	30.00	330,000
C1020 Interior Doors				
			II.	ncluded above
C1030 Fittings				375,000
Building accessories				
Toilet partitions and fixed restroom accessories, markerboards and tackboards, interior signage, fire				
extinguisher cabinets	75,000	SF	5.00	375,000
-				2,785,000



Feasibility Study C	ost Plan
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	Quantity	Unit	Rate	Total
C20 Stairways				
C2010 Stair Construction				375,000
Stairs				,
Fire exit stairs	10	FLT	30,000.00	300,000
Lobby stairs	1	FLT	75,000.00	75,000
C2020 Stair Finishes				
			Ir	ncluded above
				375,000
				0.0,000
C30 Interior Finishes				
C3010 Wall Finishes				3,240,000
Floor, wall and ceiling finishes				-, -,
Innovation Hall	32,000	SF	75.00	2,400,000
CEM	16,000	SF	25.00	400,000
Creative Office	16,000	SF		Shelled space
Event Space	11,000	SF	40.00	440,000
C3020 Floor Finishes				
			Ir	ncluded above
C3030 Ceiling Finishes				
Cooco Comigination			Ir	ncluded above
				3,240,000
D10 Conveying Systems				
D1010 Elevators & Lifts				1,050,000
Traction elevators				1,000,000
Passenger elevator, 5-stop	3	EA	250,000.00	750,000
Freight elevator, 5-stop	1	EA	300,000.00	300,000
D1020 Escalators & Moving Walks				
•				



	Quantity	Unit	Rate	Total
D4000 Other Convenient Contents				
D1090 Other Conveying Systems				
				1,050,000
				,,.
D20 Plumbing Systems				
D2090 Other Plumbing Systems				1,045,000
Plumbing systems	75,000	SF	15.00	1,125,000
Credit for shelled space	(16,000)	SF	5.00	(80,000
				1,045,000
D30 Heating, Ventilation & Air Conditioning				
D3090 Other HVAC Systems & Equipment				3,430,000
HVAC systems	75,000	SF	50.00	3,750,000
Credit for shelled space	(16,000)	SF	20.00	(320,000
				3,430,000
D40 Fire Protection				
D4010 Sprinklers				525,000
Automatic wet sprinkler system	75,000	SF	7.00	525,000
				525,000
D50 Electrical Lighting, Power & Communications				
D5090 Other Electrical Systems				3,860,000
Electrical systems	75,000	SF	60.00	4,500,000
Credit for shelled space	(16,000)	SF	40.00	(640,000
				3,860,000

E10 Equipment



Feasibility Study C	ost Plan
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adibility drady door i lair			001101110	o Danani
	Quantity	Unit	Rate	Total
E1090 Other Equipment				125,000
Amphitheater seating	250	EA	500.00	125,000
				125,000
				120,000
E20 Furnishings				
E2010 Fixed Furnishings				630,000
Built-in cabinets and countertops, miscellaneous millwork				
Innovation Hall	32,000	SF	10.00	320,000
CEM	16,000	SF	5.00	80,000
Creative Office	16,000	SF		Shelled space
Event Space	11,000	SF	10.00	110,000
Roof top terrace	8,000	SF	15.00	120,000
E2020 Movable Furnishings				
				630,000
F10 Special Construction				
				(
F20 Selective Demolition				
				(



Overall Summary - Scheme M

		SF	\$/SF	TOTAL \$ x 1,000	%
B2	Scheme M Building	124,000	518.16	64,252	86%
TOTA	L BUILDING			64,252	86%
P1	Subterranean Parking	48,200	186.31	8,980	12%
S1	Sitework	22,074	52.31	1,155	2%
TOTA	L BUILDING AND SITEWORK, March 2018			74,387	100%
RECC	DMMENDED CONSTRUCTION BUDGET, Ma	arch 2018		74,387	100%
Z30	Escalation Allowances				
Z31	3 Years	14.65%		10,898	
Z32	5 Years	24.00%		17,853	
Z33	7 Years	34.12%		25,381	



Scheme M Building Areas

	SF				SF
Areas					
Enclosed Areas			Program Area	as	
First Floor	16,000		Innovation F	Hall	32,000
Second Floor	16,000		CEM		16,000
Third Floor	16,000		Adaptable M	/lanufacture	26,000
Fourth Floor	16,000		Creative Off	ice	40,000
Fifth Floor	10,000		Event Space	е	10,000
Sixth Floor	10,000				
Seventh Floor	10,000				
Eigth Floor	10,000				
Ninth Floor	10,000				
Tenth Floor	10,000				
Subtotal of Enclosed Areas		124,000			
Covered Areas					
Subtotal of Covered Areas at 50%					
TOTAL GROSS FLOOR AREA		124,000			124,000
Control Quantities			10		Ratio to GFA
Number of stories			10		0.000
Gross Area			124,000		1.000
Enclosed Area			124,000		1.000
Footprint Area			16,000		0.129
Volume			2,344,000		18.903
Gross Wall Area			78,125		0.630
Finished Wall Area			78,125		0.630
Windows or Glazing		75%	58,594		0.473
Main Roof Area - Flat			8,000		0.065
Terrace Roof Area - Flat			8,000		0.065
Roof Area - Total			16,000		0.129
Staircase				FLT	0.000
Shelled Area			66,000	SF	0.532
Finished Area			58,000	SF	0.468
Structural Framed Slab			124,000	SF	1.000
Elevators (Ratio x 10,000)			6	EA	0.484



Scheme M Building Summary

Ref.	Description		%	\$/SF	TOTAL \$x1,000
			Gross Area:	124,000 SF	
A10	Foundations		4%	21.87	2,712
A20	Basement Construction		0%	0.00	0
Α	Substructure		4%	21.87	2,712
B10	Superstructure		15%	76.94	9,540
B20	Exterior Enclosure		16%	82.06	10,175
B30	Roofing		1%	4.84	600
В	Shell		32%	163.83	20,315
C10	Interior Construction		5%	24.19	3,000
C20	Stairways		2%	7.86	975
C30	Interior Finishes		5%	25.81	3,200
С	Interiors		11%	57.86	7,175
D10	Conveying Systems		5%	25.00	3,100
D20	Plumbing Systems		2%	12.34	1,530
D30	Heating, Ventilation & Air Conditioning		8%	41.85	5,190
D40	Fire Protection		2%	9.02	1,118
D50	Electrical Lighting, Power & Communications		8%	43.71	5,420
D	Services		25%	131.92	16,358
E10	Equipment		0%	1.21	150
E20	Furnishings		1%	5.00	620
Е	Equipment & Furnishings		1%	6.21	770
F10	Special Construction		0%	0.00	0
F20	Selective Demolition		0%	0.00	0
F	Special Construction & Demolition		0%	0.00	0
BUILI	DING ELEMENTAL COST BEFORE CONTINGE	NCIES	74%	381.69	47,330
Z10	Design Contingency	15.00%	11%	57.25	7,099
Z11	General Requirements	4.00%	3%	17.56	2,177
BUILI	DING ELEMENTAL COST INCLUDING CONTIN	IGENCIES	88%	456.51	56,607
Z21	General Conditions	7.00%	6%	31.96	3,962
Z22	Bonds & Insurance	2.00%	2%	9.77	1,211
Z23	Contractor's Overhead, Profit & Fee	4.00%	4%	19.93	2,471
BUILI	DING CONSTRUCTION COST BEFORE ESCAI	LATION	100%	518.16	64,252
Z30	See Overall Summary for Escalation	0.00%	0%	0.00	0
DECC	DMMENDED BUDGET - March, 2018		100%	518.16	64,252



Scheme M Building

asibility Study Cost i laii			Ochlenne i	vi Ballallig
	Quantity	Unit	Rate	Total
A10 Foundations				
A1010 Standard Foundations				120,000
Reinforced concrete including excavation				
Elevator pit including waterproofing	6	EA	20,000.00	120,000
A1020 Special Foundations				2,400,000
Piling				
Piles, pile caps and grade beams	16,000	SF	150.00	2,400,000
A1030 Slab On Grade				192,000
Concrete slab on grade	16,000	SF	12.00	192,000
_				2,712,000
				, ,
A20 Basement Construction				
A2010 Basement Excavation				
A2020 Basement Walls				
_				
				0
B10 Superstructure				
B1010 Floor Construction				0.400.000
B1010 Floor Construction Suspended floors				8,499,969
Suspended floors				8,499,969
	108,000	SF	70.00	
Suspended floors Reinforced concrete columns, shear walls, floor slabs and	108,000	SF	70.00	
Suspended floors Reinforced concrete columns, shear walls, floor slabs and beams	108,000 5,000	SF	70.00 40.00	7,560,000
Suspended floors Reinforced concrete columns, shear walls, floor slabs and beams Miscellaneous				7,560,000 200,000
Suspended floors Reinforced concrete columns, shear walls, floor slabs and beams Miscellaneous Amphitheater	5,000	SF	40.00	7,560,000 200,000 75,000 292,969



Scheme M Building

	Quantity	Unit	Rate	Total
B1020 Roof Construction				
Flat roofs				1,040,000
Reinforced concrete columns, shear walls, roof slabs and				
beams	16,000	SF	65.00	1,040,00
_				9,539,96
320 Exterior Enclosure				
B2010 Exterior Walls				2,600,78
Finished walls				_,000,.0
Wall framing, insulation, waterproofing, exterior finish materials	19,531	SF	100.00	1,953,12
Interior finish to exterior wall				
Gypsum board lining with paint finish	19,531	SF	5.00	97,65
Soffits				
Allow for soffits	1	LS	50,000.00	50,00
Balustrades, parapets and roof screens				
Metal balustrades at roof deck, mechanical equipment screen walls	1	LS	150,000.00	150,00
Miscellaneous				
Entry canopies and miscellaneous exterior wall detailing including sunshading	1	LS	350,000.00	350,00
B2020 Exterior Windows				7,324,21
Windows, glazing and louvers				.,02.,2
Insulated high performance curtainwall	58,594	SF	125.00	7,324,21
B2030 Exterior Doors				250,00
Doors, frames and hardware				
Glazed entry doors	1	LS	75,000.00	75,00
Steel exit doors	1	LS	25,000.00	25,00
Roll-up doors at plaza and roof decks	1	LS	150,000.00	150,00
-				10,175,00



Scheme M Building

	Quantity	Unit	Rate	Total
330 Roofing				
330 Kooning				
B3010 Roof Coverings				600,00
Roofing				
Membrane roofing over rigid insulation, including metal parapet caps, flashings, miscellaneous sheetmetal work	8,000	SF	25.00	200,00
Terrace				
Waterproofing, pedestal pavers	8,000	SF	50.00	400,00
B3020 Roof Openings				
_				
				600,00
C10 Interior Construction				
C1010 Partitions				2,380,00
Partitions and doors				, ,
Metal stud partitions, glazed partitions, wood and glazed doors, balustrades				
Innovation Hall	32,000	SF	50.00	1,600,00
CEM	16,000	SF	30.00	480,00
Adaptable Manufacturing	26,000	SF		Shelled space
Creative Office	40,000	SF		Shelled space
Event Space	10,000	SF	30.00	300,00
C1020 Interior Doors				
			I	ncluded abov
C1030 Fittings				620,00
Building accessories				
Toilet partitions and fixed restroom accessories, markerboards and tackboards, interior signage, fire				
extinguisher cabinets	124,000	SF	5.00	620,00
-				3,000,00



Feasibility S	tudy Co	st Plan
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easibility Study Cost i lair				OCHCITIC	ivi Dullullig
		Quantity	Unit	Rate	Total
C20 Stairways					
020 O.u					
C2010 Stair Construction					975,000
Stairs					
Fire exit stairs		30	FLT	30,000.00	900,000
Lobby stairs		1	FLT	75,000.00	75,000
C2020 Stair Finishes					
				ı	Included above
	_				975,000
C30 Interior Finishes					
C3010 Wall Finishes					3,200,000
Floor, wall and ceiling finishes					-,,
Innovation Hall		32,000	SF	75.00	2,400,000
CEM		16,000	SF	25.00	400,000
Adaptable Manufacturing		26,000	SF		Shelled space
Creative Office		40,000	SF		Shelled space
Event Space		10,000	SF	40.00	400,000
C3020 Floor Finishes					
				I	Included above
C3030 Ceiling Finishes					
				I	Included above
	_				3,200,000
D10 Conveying Systems					
D1010 Elevators & Lifts					3,100,000
Traction elevators					-, . 55,550
Passenger elevator, 10-stop		5	EA	500,000.00	2,500,000
Freight elevator, 10-stop		1	EA	600,000.00	600,000
D1020 Escalators & Moving Walks					
-					



Feasibility Study Cost Plan Scheme M Building

	Quantity	Unit	Rate	Total
D1090 Other Conveying Systems				
				3,100,000
D20 Plumbing Systems				
D2090 Other Plumbing Systems				1,530,000
Plumbing systems	124,000	SF	15.00	1,860,000
Credit for shelled space	(66,000)	SF	5.00	(330,000
				1,530,000
D30 Heating, Ventilation & Air Conditioning				
D3090 Other HVAC Systems & Equipment				5,190,000
HVAC systems	124,000	SF	52.50	6,510,000
Credit for shelled space	(66,000)	SF	20.00	(1,320,000
				5,190,000
D40 Fire Protection				
D4010 Sprinklers				1,118,000
Automatic wet sprinkler system	124,000	SF	7.00	868,000
Fire pump and water storage	1	LS	250,000.00	250,000
				1,118,000
D50 Electrical Lighting, Power & Communications				
D5090 Other Electrical Systems				5,420,000
Electrical systems	124,000	SF	65.00	8,060,000
Credit for shelled space	(66,000)	SF	40.00	(2,640,000
				5,420,000



Feasibility Study C	ost Plan
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	Quantity	Unit	Rate	Total
E10 Equipment				
E1090 Other Equipment				150,000
Amphitheater seating	250	EA	500.00	125,000
Loading dock equipment	1	LS	25,000.00	25,000
				150,000
E20 Furnishings				
E2010 Fixed Furnishings				620,000
Built-in cabinets and countertops, miscellaneous millwork				
Innovation Hall	32,000	SF	10.00	320,000
CEM	16,000	SF	5.00	80,000
Adaptable Manufacturing	26,000	SF		Shelled space
Creative Office	40,000	SF		Shelled space
Event Space	10,000	SF	10.00	100,000
Roof top terrace	8,000	SF	15.00	120,000
E2020 Movable Furnishings				
				620,000
F10 Special Construction				
				0
F20 Selective Demolition				
				0



Overall Summary - Scheme L

			SF	\$/SF	TOTAL \$ x 1,000	%
В3	Scheme L Building		203,000	518.33	105,221	88%
TOTA	L BUILDING				105,221	88%
P1	Subterranean Parking		72,300	178.86	12,932	11%
S1	Sitework		22,074	52.31	1,155	1%
TOTA	L BUILDING AND SITEWORK, Mar	ch 2018			119,307	100%
RECC	MMENDED CONSTRUCTION BUD	GET, March 2018			119,307	100%
Z30	Escalation Allowances					
Z31	3 Years	14.65%			17,478	
Z32	5 Years	24.00%			28,634	
Z33	7 Years	34.12%			40,708	



Scheme L Building Areas

	SF	<u> </u>			
Areas					
Enclosed Areas			Program Are	eas	
First Floor	19,000		Innovation H	lall	38,000
Second Floor	19,000		CEM		19,000
Third Floor	19,000		Adaptable M	lanufacture	43,000
Fourth Floor	19,000		Education M	lultiplex	36,000
Fifth Floor	12,000		Creative Off	ice	48,000
Sixth Floor	12,000		Event space		19,000
Seventh Floor	12,000				
Eigth Floor	12,000				
Ninth Floor	12,000				
Tenth Floor	12,000				
Eleventh Floor	12,000				
Twelf Floor	12,000				
Thirteenth Floor	12,000				
Fourteenth Floor	12,000				
Fifthteenth Floor	7,000				
Covered Areas		203,000			
Covered Areas Subtotal of Covered Areas at 50%		203,000			203,000
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA		<u>-</u>			203,000 Ratio to GFA
Covered Areas Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities		<u>-</u>		EA	
Covered Areas Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories		<u>-</u>	 15 203,000		Ratio to GFA
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area		<u>-</u>		SF	Ratio to GFA
Covered Areas Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area		<u>-</u>	203,000	SF SF	Ratio to GFA 0.000 1.000
Covered Areas Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area		<u>-</u>	203,000 203,000	SF SF SF	Ratio to GFA 0.000 1.000 1.000
Covered Areas Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area		<u>-</u>	203,000 203,000 19,000	SF SF SF CF	Ratio to GFA 0.000 1.000 1.000 0.094
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area		<u>-</u>	203,000 203,000 19,000 3,658,000	SF SF SF CF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area		<u>-</u>	203,000 203,000 19,000 3,658,000 119,100	SF SF SF CF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587
Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing		203,000	203,000 203,000 19,000 3,658,000 119,100	SF SF SF CF SF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat		203,000	203,000 203,000 19,000 3,658,000 119,100 119,100 89,325	SF SF CF SF SF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440 0.047
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat		203,000	203,000 203,000 19,000 3,658,000 119,100 119,100 89,325 9,500	SF SF CF SF SF SF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440 0.047
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total		203,000	203,000 203,000 19,000 3,658,000 119,100 89,325 9,500 9,500 19,000	SF SF CF SF SF SF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440 0.047 0.047 0.094
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total Staircase		203,000	203,000 203,000 19,000 3,658,000 119,100 89,325 9,500 9,500 19,000	SF SF SF SF SF SF SF FLT	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume		203,000	203,000 203,000 19,000 3,658,000 119,100 119,100 89,325 9,500 9,500 19,000 45	SF SF SF SF SF SF SF SF SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440 0.047 0.047 0.094 0.000
Subtotal of Covered Areas at 50% TOTAL GROSS FLOOR AREA Control Quantities Number of stories Gross Area Enclosed Area Footprint Area Volume Gross Wall Area Finished Wall Area Windows or Glazing Main Roof Area - Flat Terrace Roof Area - Flat Roof Area - Total Staircase Shelled Area		203,000	203,000 203,000 19,000 3,658,000 119,100 89,325 9,500 9,500 19,000 45 91,000	SF SF CF SF SF SF SF SF SF SF FLT SF	Ratio to GFA 0.000 1.000 1.000 0.094 18.020 0.587 0.587 0.440 0.047 0.047 0.094 0.000 0.448



Scheme L Building Summary

Ref.	Description		%	\$/SF	TOTAL \$x 1,000
			Gross Area:	203,000 SF	
A10	Foundations		3%	15.95	3,238
A20	Basement Construction		0%	0.00	0
Α	Substructure		3%	15.95	3,238
B10	Superstructure		15%	76.21	15,471
B20	Exterior Enclosure		14%	74.84	15,192
B30	Roofing		1%	3.51	713
В	Shell		30%	154.56	31,375
C10	Interior Construction		5%	27.96	5,675
C20	Stairways		1%	6.87	1,395
C30	Interior Finishes		5%	27.22	5,525
С	Interiors		12%	62.04	12,595
D10	Conveying Systems		6%	30.30	6,150
D20	Plumbing Systems		2%	12.76	2,590
D30	Heating, Ventilation & Air Conditioning		8%	43.53	8,838
D40	Fire Protection		2%	8.23	1,671
D50	Electrical Lighting, Power & Communications		9%	47.07	9,555
D	Services		27%	141.89	28,804
E10	Equipment		0%	0.74	150
E20	Furnishings		1%	6.64	1,348
E	Equipment & Furnishings		1%	7.38	1,498
F10	Special Construction		0%	0.00	0
F20	Selective Demolition		0%	0.00	0
F	Special Construction & Demolition		0%	0.00	0
BUIL	DING ELEMENTAL COST BEFORE CONTINGE	NCIES	74%	381.82	77,509
Z10	Design Contingency	15.00%	11%	57.27	11,626
Z11	General Requirements	4.00%	3%	17.56	3,565
Z12	Other 2	0.00%	0%	0.00	0
BUIL	DING ELEMENTAL COST INCLUDING CONTIN	GENCIES	88%	456.65	92,701
Z21	General Conditions	7.00%	6%	31.97	6,489
Z22	Bonds & Insurance	2.00%	2%	9.77	1,984
Z23	Contractor's Overhead, Profit & Fee	4.00%	4%	19.94	4,047
BUIL	DING CONSTRUCTION COST BEFORE ESCAL	ATION	100%	518.33	105,221
Z30	See Overall Summary for Escalation	0.00%	0%	0.00	0
RECO	DMMENDED BUDGET - March, 2018		100%	518.33	105,221



Feasibility	y Study	Cost	Plan
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			L Building
Quantity	Unit	Rate	Total
			160,000
8	EA	20,000.00	160,000
			2,850,000
19,000	SF	150.00	2,850,000
			228,000
19,000	SF	12.00	228,000
			3,238,000
			0
			14,235,625
			,,
184,000	SF	70.00	12,880,000
5,000	SF	40.00	200,000
1	LS	100,000.00	100,000
89,325	SF	5.00	446,625
203,000	SF	3.00	609,000
	19,000 19,000 184,000 5,000 1 89,325	8 EA 19,000 SF 19,000 SF 5,000 SF 1 LS 89,325 SF	8 EA 20,000.00 19,000 SF 150.00 19,000 SF 12.00 184,000 SF 70.00 5,000 SF 40.00 1 LS 100,000.00 89,325 SF 5.00



Scheme L Building

	Quantity	Unit	Rate	Total
B1020 Roof Construction				1,235,000
Flat roofs				.,_00,000
Reinforced concrete columns, shear walls, roof slabs and beams	19,000	SF	65.00	1,235,000
_				15,470,625
B20 Exterior Enclosure				
B2010 Exterior Walls				3,776,375
Finished walls				, ,
Wall framing, insulation, waterproofing, exterior finish materials	29,775	SF	100.00	2,977,500
Interior finish to exterior wall				
Gypsum board lining with paint finish	29,775	SF	5.00	148,875
Soffits				
Allow for soffits	1	LS	50,000.00	50,000
Balustrades, parapets and roof screens				
Metal balustrades at roof deck, mechanical equipment screen walls	1	LS	150,000.00	150,000
Miscellaneous				
Entry canopies and miscellaneous exterior wall detailing including sunshading	1	LS	450,000.00	450,000
B2020 Exterior Windows				11,165,625
Windows, glazing and louvers				, ,
Insulated high performance curtainwall	89,325	SF	125.00	11,165,625
B2030 Exterior Doors				250,000
Doors, frames and hardware				200,000
Glazed entry doors	1	LS	75,000.00	75,000
Steel exit doors	1	LS	25,000.00	25,000
Roll-up doors at plaza and roof decks	1	LS	150,000.00	150,000
_				15,192,000



Scheme L Building

	Quantity	Unit	Rate	Total
B30 Roofing				
B3010 Roof Coverings				712,500
Roofing				
Membrane roofing over rigid insulation, including metal parapet caps, flashings, miscellaneous sheetmetal work	9,500	SF	25.00	237,500
Terrace				
Waterproofing, pedestal pavers	9,500	SF	50.00	475,000
B3020 Roof Openings				
_				
				712,500
C10 Interior Construction				
C1010 Partitions				4,660,000
Partitions and doors				
Metal stud partitions, glazed partitions, wood and glazed doors, balustrades				
Innovation Hall	38,000	SF	50.00	1,900,000
CEM	19,000	SF	30.00	570,000
Adaptable Manufacturing	43,000	SF	;	Shelled space
Education Multiplex	36,000	SF	45.00	1,620,000
Creative Office	48,000	SF	;	Shelled space
Event Space	19,000	SF	30.00	570,000
C1020 Interior Doors				
			In	ncluded above
C1030 Fittings				1,015,000
Building accessories				.,,
Toilet partitions and fixed restroom accessories, markerboards and tackboards, interior signage, fire				
extinguisher cabinets	203,000	SF	5.00	1,015,000
				5,675,000



Feasibilit	y Study	/ Cost	Plan
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easibility Study Cost Flam			001101110	E Dullullig
	Quantity	Unit	Rate	Total
C20 Stairways				
C2010 Stair Construction				1,395,000
Stairs				1,000,000
Fire exit stairs	44	FLT	30,000.00	1,320,000
Lobby stairs	1	FLT	75,000.00	75,000
C2020 Stair Finishes				
			Ir	ncluded above
				4 005 000
				1,395,000
C30 Interior Finishes				
C3010 Wall Finishes				5,525,000
Floor, wall and ceiling finishes				
Innovation Hall	38,000	SF	75.00	2,850,000
CEM	19,000	SF	25.00	475,000
Adaptable Manufacturing	43,000	SF		Shelled space
Education Multiplex	36,000	SF	40.00	1,440,000
Creative Office	48,000	SF		Shelled space
Event Space	19,000	SF	40.00	760,000
C3020 Floor Finishes				
C3020 Fl001 Fillishes				
			II.	ncluded above
C3030 Ceiling Finishes				
•			lı	ncluded above
	_			5,525,000
D10 Conveying Systems				
Did Conveying Systems				
D1010 Elevators & Lifts				6 150 000
Traction elevators				6,150,000
Passenger elevator, 15-stop	7	EA	750,000.00	5,250,000
Freight elevator, 15-stop	1	EA	900,000.00	900,000
,	ı	LA	300,000.00	300,000
D1020 Escalators & Moving Walks				
- -				



9,555,000

				L Buildin
	Quantity	Unit	Rate	Total
D1090 Other Conveying Systems				
				6,150,00
				, ,
D20 Plumbing Systems				
D2090 Other Plumbing Systems				2,590,00
Plumbing systems	203,000	SF	15.00	3,045,00
Credit for shelled space	(91,000)	SF	5.00	(455,00
				2,590,00
D30 Heating, Ventilation & Air Conditioning				
D3090 Other HVAC Systems & Equipment				8,837,50
HVAC systems	203,000	SF	52.50	10,657,50
Credit for shelled space	(91,000)	SF	20.00	(1,820,00
				8,837,50
D40 Fire Protection				
D4010 Sprinklers				1,671,00
Automatic wet sprinkler system	203,000	SF	7.00	1,421,00
Fire pump and water storage	1	LS	250,000.00	250,00
				1,671,00
D50 Electrical Lighting, Power & Communications				
D5090 Other Electrical Systems				9,555,00
Electrical systems Credit for shelled space	203,000	SF	65.00	13,195,00



	Quantity	Unit	Rate	Total
E40 Equipment				
E10 Equipment				
E1010 Commercial Equipment				150,000
Amphitheater seating	250	EA	500.00	125,000
Loading dock equipment	1	LS	25,000.00	25,000
				450.000
				150,000
E20 Furnishings				
E2010 Fixed Furnishings				1,347,500
Built-in cabinets and countertops, miscellaneous millwork				1,011,000
Innovation Hall	38,000	SF	10.00	380,000
CEM	19,000	SF	5.00	95,000
Adaptable Manufacturing	43,000	SF		Shelled space
Education Multiplex	36,000	SF	15.00	540,000
Creative Office	48,000	SF		Shelled space
Event Space	19,000	SF	10.00	190,000
Roof top terrace	9,500	SF	15.00	142,500
E2020 Movable Furnishings				
				1,347,500
F10 Special Construction				
				0
F20 Selective Demolition				
				0



Sitework Areas

	SF	SF	SF
Areas			
Net Site Areas	6,074		
Net Site Area		6,074	
Building Footprint Areas			
Building Footprint Area	16,000		
Subtotal of Building Footprint Areas		16,000	
TOTAL SITE AREA		<u> </u>	22,074



Sitework Summary

			%	\$/SF	TOTAL \$x1,000
			Gross Area:	22,074 SF	
G10	Site Preparation		3%	1.50	33
G20	Site Improvements		26%	13.76	304
G30	Site Mechanical Utilities		19%	9.89	218
G40	Site Electrical Utilities		26%	13.39	296
G90	Other Site Construction		0%	0.00	0
G	Building Sitework		74%	38.53	851
SITE	ELEMENTAL COST BEFORE CONTINGENCIES		74%	38.53	851
Z10	Design Contingency	15.00%	11%	5.78	128
Z11	General Requirements	4.00%	3%	1.77	39
SITE	ELEMENTAL COST INCLUDING CONTINGENCIES		88%	46.09	1,017
Z21	General Conditions	7.00%	6%	3.23	71
Z22	Bonds & Insurance	2.00%	2%	0.99	22
Z23	Contractor's Overhead, Profit & Fee	4.00%	4%	2.01	44
SITE	CONSTRUCTION COST BEFORE ESCALATION		100%	52.31	1,155
Z30	See Overall Summary for Escalation	0.00%	0%	0.00	0
DECC	DMMENDED BUDGET - March, 2018		100%	52.31	1,155



Sitework

Item Description	Quantity	Unit	Rate	Total
G10 Site Preparation				
G1010 Site Clearing				33,111
General site clearing and grading	22,074	SF	1.50	33,111
G1020 Site Demolition and Relocations				
G1030 Site Earthwork				
G1040 Hazardous Waste Remediation				
				Excluded
				33,111
20 Site Improvements				
G2040 Site Development				303,700
Paving and landscaping				
Paving and landscaping, site furniture and signage	6,074	SF	50.00	303,700
G2050 Landscaping				
			Inc	cluded above
				303,700
30 Site Mechanical Utilities				
G3090 Other Site Mechanical Utilities				218,222
Storm sewer systems (excluding on-site containment)	6,074	SF	3.00	18,222
Fire and domestic water, gas connections to building	1	LS	200,000.00	200,000
				218,222



Sitework

Item Description	Quantity	Unit	Rate	Total
G40 Site Electrical Utilities				
G4090 Other Site Electrical Utilities				295,555
Site lighting	6,074	SF	7.50	45,555
Site power and communication connections to building	1	LS	250,000.00	250,000
<u>-</u>				
				295,555
G90 Other Site Construction				
-				0



Subterranean Parking

Item Description	Quantity	Unit	Rate	Total
Scheme S: One level - 24,100 GSF				
Excavation and removal off site	10,000	CY	35.00	350,000
Reinforced concrete foundations	24,100	SF	5.00	120,500
Reinforced concrete slab on grade	24,100	SF	10.00	241,000
Reinforced concrete retaining walls including	,			,
waterproofing	7,150	SF	75.00	536,250
Reinforced concrete columns	24,100	SF	5.00	120,500
Premium for suspended reinforced concrete lid in	0.4.400	0=	0= 00	000 504
lieu of slab on grade at building and site	24,100	SF	25.00	602,500
Waterproofing at site areas	6,074	SF	15.00	91,110
Stairs including shafts	2	FLT	50,000.00	100,000
Additional elevator stop and shaft	2	EA	60,000.00	120,000
MEP systems	24,100	SF	20.00	482,000
Parking control equipment	1	LS	100,000.00	100,000
Alternate Cost Before Markups				2,863,860
Z10 Design Contingency	15.00%			429,579
Z11 General Requirements	4.00%			131,738
Z21 General Conditions	7.00%			239,762
Z22 Bonds & Insurance	2.00%			73,299
Z23 Contractor's Overhead, Profit & Fee	4.00%			149,530
Z30 See Overall Summary for Escalation	0.00%			-,
	161.32			3,887,767



Subterranean Parking

Item Description	Quantity	Unit	Rate	Total
Scheme M: Two levels - 48,200 GSF				
Excavation and removal off site	20,000	CY	35.00	700,000
Temporary dewatering	1	LS	100,000.00	100,000
Shoring	14,300	SF	60.00	858,000
Reinforced concrete foundations	24,100	SF	5.00	120,500
Reinforced concrete slab on grade	24,100	SF	10.00	241,000
Underslab drainage and waterproofing systems	24,100	SF	15.00	361,500
Reinforced concrete retaining walls including	,			
waterproofing	14,300	SF	75.00	1,072,500
Reinforced concrete columns	48,200	SF	5.00	241,000
Reinforced concrete suspended floor slab and beams, including ramps	24,100	SF	30.00	723,000
Premium for suspended reinforced concrete lid in lieu of slab on grade at building and site	24,100	SF	25.00	602,500
Waterproofing at site areas	6,074	SF	15.00	91,110
Stairs including shafts	4	FLT	50,000.00	200,000
Additional elevator stop and shaft	4	EA	60,000.00	240,000
MEP systems	48,200	SF	20.00	964,000
Parking control equipment	1	LS	100,000.00	100,000
Alternate Cost Before Markups				6,615,110
Z10 Design Contingency	15.00%			992,267
Z11 General Requirements	4.00%			304,295
Z21 General Conditions	7.00%			553,817
Z22 Bonds & Insurance	2.00%			169,310
Z23 Contractor's Overhead, Profit & Fee	4.00%			345,392
Z30 See Overall Summary for Escalation	0.00%			•
	186.31			8,980,190



Subterranean Parking

Item Description	Quantity	Unit	Rate	Total
Scheme L: Three levels - 72,300 GSF				
Excavation and removal off site	30,000	CY	35.00	1,050,000
Temporary dewatering	1	LS	150,000.00	150,000
Shoring	21,450	SF	60.00	1,287,000
Reinforced concrete foundations	24,100	SF	5.00	120,500
Reinforced concrete slab on grade	24,100	SF	10.00	241,000
Underslab drainage and waterproofing systems	24,100	SF	15.00	361,500
Reinforced concrete retaining walls including	_ :,:::			551,551
waterproofing	21,450	SF	75.00	1,608,750
Reinforced concrete columns	72,300	SF	5.00	361,500
Reinforced concrete suspended floor slab and	40.000	C.E.	20.00	4 440 000
beams, including ramps Premium for suspended reinforced concrete lid in	48,200	SF	30.00	1,446,000
lieu of slab on grade at building and site	24,100	SF	25.00	602,500
Waterproofing at site areas	6,074	SF	15.00	91,110
Stairs including shafts	6	FLT	50,000.00	300,000
Additional elevator stop and shaft	6	EA	60,000.00	360,000
MEP systems	72,300	SF	20.00	1,446,000
Parking control equipment	1	LS	100,000.00	100,000
Alternate Cost Before Markups				9,525,860
Z10 Design Contingency	15.00%			1,428,879
Z11 General Requirements	4.00%			438,190
Z21 General Conditions	7.00%			797,505
Z22 Bonds & Insurance	2.00%			243,809
Z23 Contractor's Overhead, Profit & Fee	4.00%			497,370
Z30 See Overall Summary for Escalation	0.00%			•
-	178.86			12,931,612