

Sunnyvale Master Plan Sunnyvale, CA

Rough Order of Magnitude Rev6 November 1, 2017 Cumming Project No. 17-00701.00

Prepared for SmithGroupJJR

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EXECUTIVE SUMMARY

1.1 Introduction

This estimate has been prepared, pursuant to an agreement between SmithGroupJJR and Cumming, for the purpose of establishing a probable cost of construction at the conceptual design stage.

The project scope encompasses construction of the new City Hall, DPS addition and Site Development at Sunnyvale Civic Center in Sunnyvale, California.

1.2 Project Schedule

	Start	Finish	Duration
Design & Engineering	tbd	tbd	tbd
Construction	tbd	tbd	tbd

1.3 Key Assumptions & Exclusions

Key Assumptions

- Lump Sum Low Bid Delivery
- Soft Cost Allowance of 35% Pending Verification
- Deep foundation allowance
- Green roof as shown

Key Exclusions

- Hazardous Materials Abatement
- Construction Cost Escalation beyond the Date of this Report
- Ballistic Glazing or Blast Resistant Construction
- Dual layer cladding (no metal screen shown)

Element	Area	Cost / SF	Total
Master Plan Option 1 - Phase 1			
City Hall	98,700	\$805.00	\$79,453,581
Parking Below City Hall	40,768	\$180.00	\$7,338,240
Site Development	449,602	\$36.95	\$16,614,268
DPS Addition - See Previous Submittal	11,000	\$863.64	\$9,500,000
Renovations Inside Existing PSB	8,700	\$459.77	\$4,000,000
Demolition of Existing Buildings			
Sunnyvale Office Center	47,600	\$25.00	\$1,190,000
Existing City Hall and Annex	53,500	\$25.00	\$1,337,500
Public Art	1%		\$1,200,000
PV for NZE for City Hall, per Narrative			Excluded
Escalation to Midpoint of Construction			Excluded
Total Estimated Construction Cost			\$121,000,00
Project Soft Costs	35%		\$42,400,000
Total Estimated Construction Cost			\$163,400,00
			\$163,400,000
Master Plan Option 2 - Phase 1	98 700	\$765.00	
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall	98,700 40,768	\$765.00 \$180.00	\$75,505,494
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall	40,768	\$180.00	\$75,505,494 \$7,338,240
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development	40,768 397,296	\$180.00 \$49.80	\$75,505,494 \$7,338,240 \$19,785,848
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal	40,768 397,296 11,000	\$180.00 \$49.80 \$863.64	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB	40,768 397,296	\$180.00 \$49.80	\$75,505,494 \$7,338,240 \$19,785,848
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal	40,768 397,296 11,000 8,700	\$180.00 \$49.80 \$863.64	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings Sunnyvale Office Center	40,768 397,296 11,000	\$180.00 \$49.80 \$863.64 \$459.77	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings	40,768 397,296 11,000 8,700	\$180.00 \$49.80 \$863.64 \$459.77	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000 \$1,190,000 \$1,337,500
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings Sunnyvale Office Center Existing City Hall and Annex	40,768 397,296 11,000 8,700 47,600 53,500	\$180.00 \$49.80 \$863.64 \$459.77	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000 \$1,190,000 \$1,337,500
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings Sunnyvale Office Center Existing City Hall and Annex Public Art PV for NZE for City Hall, per Narrative	40,768 397,296 11,000 8,700 47,600 53,500	\$180.00 \$49.80 \$863.64 \$459.77	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000 \$1,190,000 \$1,337,500 \$1,200,000
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings Sunnyvale Office Center Existing City Hall and Annex Public Art PV for NZE for City Hall, per Narrative Escalation to Midpoint of Construction	40,768 397,296 11,000 8,700 47,600 53,500	\$180.00 \$49.80 \$863.64 \$459.77	\$75,505,494 \$7,338,240 \$19,785,848 \$9,500,000 \$4,000,000 \$1,190,000 \$1,200,000 Excluded Excluded
Master Plan Option 2 - Phase 1 City Hall Parking Below City Hall Site Development DPS Addition - See Previous Submittal Renovations Inside Existing PSB Demolition of Existing Buildings Sunnyvale Office Center Existing City Hall and Annex Public Art	40,768 397,296 11,000 8,700 47,600 53,500	\$180.00 \$49.80 \$863.64 \$459.77	\$1,190,000 \$1,337,500 \$1,200,000 Excluded

Premium for Heavy Timber Construction (City Hall Upper Floors only)

Cost Impact to Be Determined

Project # 17-00701.00 11/01/17

City Hall Option 1

58,422 40,236 22,981 91,279 70,170 05,150 35,365 22,220 45,000	\$29,683,088 \$7,240,515 \$3,267,220 \$15,611,318	\$28.96 \$18.64 \$69.13 \$163.03 \$20.97 \$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10 \$80.35	\$33.10
40,236 22,981 91,279 70,170 05,150 35,365 22,220 45,000	\$3,267,220	\$18.64 \$69.13 \$163.03 \$20.97 \$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$33.10
22,981 91,279 70,170 05,150 35,365 22,220 45,000 36,086 44,781	\$3,267,220	\$69.13 \$163.03 \$20.97 \$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$73.36 \$33.10 \$158.17
91,279 70,170 05,150 35,365 22,220 45,000 36,086 44,781	\$3,267,220	\$163.03 \$20.97 \$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$33.10
70,170 05,150 35,365 22,220 45,000 36,086 44,781	\$3,267,220	\$20.97 \$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$33.10
05,150 35,365 22,220 45,000 36,086 44,781	\$3,267,220	\$34.50 \$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$33.10
35,365 22,220 45,000 36,086 44,781	\$3,267,220	\$38.86 \$15.42 \$17.68 \$20.63 \$50.10	\$33.10
35,365 22,220 45,000 36,086 44,781		\$38.86 \$15.42 \$17.68 \$20.63 \$50.10	·
22,220 45,000 36,086 44,781		\$15.42 \$17.68 \$20.63 \$50.10	·
45,000 36,086 44,781		\$17.68 \$20.63 \$50.10	·
45,000 36,086 44,781		\$17.68 \$20.63 \$50.10	\$158.17
45,000 36,086 44,781	\$15,611,318	\$20.63 \$50.10	\$158.17
36,086 44,781	\$15,611,318	\$50.10	\$158.17
44,781	, ,	\$50.10	
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99,534		\$7.09	
	\$500,000		\$5.07
00,000		\$5.07	
	\$56,302,140	_	\$570.44
10.00%	\$5,630,214		\$57.04
	\$61,932,354	_	\$627.48
2.00%	\$1,126,043		\$11.41
		_	\$638.89
5.00%	\$3,152,920		\$31.94
		_	\$670.83
	\$13,242,263		\$134.17
	5.00%	2.00% \$1,126,043 \$63,058,397 5.00% \$3,152,920 \$66,211,317	2.00% \$1,126,043 \$63,058,397 5.00% \$3,152,920 \$66,211,317

Total Area:

98,700 SF

Flamou4	Ougatitus	1114	Unit Coot	Tatal
Element	Quantity	Unit	Unit Cost	Total
1 Foundations				
Layout	40,768	sf	\$0.50	\$20,384
Basement Excavation				
Mass Excavation	24,159	су	\$8.50	Parking
Dispose of excavated material	28,991	tn	\$30.00	Parking
Shoring, Soldier Pile Wall	16,500	sf	\$55.00	Parking
Backfill	1,470	tn	\$40.00	Parking
Dewatering system set up	1	ls	\$100,000.00	Parking
Dewatering management, allow 7 months	7	mnth	\$10,000.00	Parking
Foundations				· ·
Rat Slab - Poured over complete basement	453	су	\$225.00	\$101,920
Pile caps	550	сý	\$750.00	\$412,500
Grade beams	475	СУ	\$750.00	\$356,250
Waterproofing slab	40,768	sf	\$11.00	\$448,448
Misc foundations for shear walls, etc	150	lf	\$750.00	\$112,500
Piles / caissons / deep foundations, allow	40,768	sf	\$30.28	\$1,234,500
Miscellaneous	40,700	01	ψ00.20	Ψ1,204,000
Elevator pit, passenger	2	03	\$25,000.00	\$50,000
Elevator pit, passenger Elevator pit, service	1	ea	\$20,000.00	\$20,000
Mud slab, allow	40,768	ea sf	\$20,000.00	\$20,000 \$101,920
Total - Foundations	_		_	\$2,858,422
				Ψ2,030,422
2 Vertical Structure				
Cast-In-Place Concrete Shear Walls, allow 16'-0" high, 1'-0" thick at Basement				
Concrete, shear walls, 5000 psi	513	су	\$425.00	Parking
Formwork, shear walls	26,400	sf	\$24.00	Parking
Wall reinforcing (150 #/cy)	77,000	lbs	\$1.75	Parking
Finish to walls	13,200	sf	\$1.50	Parking
Waterproofing	13,200	sf	\$18.00	Parking
Thermal insulation	13,200	sf	\$2.00	Parking
Cast-In-Place Concrete Columns, allow at Basement	40,768	sf	\$8.50	Parking
Structural Steel				J
Structural steel columns, tube steel	142	tn	\$5,000.00	\$711,200
Structural steel columns at green roof, tube steel	26	tn	\$5,000.00	\$130,000
Structural steel columns at glass canopy, architectural, 61'-0" high	6	ea	\$45,000.00	\$270,000
BRBFs, allow	98,700	gsf	\$5.00	\$493,500
Bolts, welds and connections, allow 15%	25	tn	\$5,500.00	\$138,798
Fireproofing to steelwork	193	tn	\$500.00	\$96,738
Sprooming to otoomork	133	u i	Ψ000.00	ψου, ι οι
Total - Vertical Structure				\$1,840,236

Fornwork 413 sf \$16.00 \$6.60 \$8.60 \$8.00 \$8.60 \$8.00 \$8.60 \$8.00 \$8.60 \$8.00 \$8.60 \$9.00 \$1.50 \$61.15 \$1.50 \$61.15 \$1.50 \$1.50 \$61.15 \$1.50 \$1.5	DETAIL ELEMENTS - CITY HALL OPTION 1				
Slab On Grade 6" Thick, 4000 psi, at Basement	Element	Quantity	Unit	Unit Cost	Total
Concrete, slab on grade, 4000 psi	3 Floor & Roof Structures				
Fornwork 413 af \$1,500 \$6,500 \$6,500 \$8 and base, 4" 40,768 af \$1,500 \$6,100 \$6,500 \$6,100 \$6	Slab On Grade 6" Thick, 4000 psi, at Basement				
Sand base, 4" 40,768 sf \$1.50 \$61,15 Gravel sub base, 6" \$1.50 \$61,15 Gravel sub base, 6" \$1.72 \$70,12 Finish to slab \$1.50 \$1	Concrete, slab on grade, 4000 psi	793	су	\$375.00	\$297,267
Gravel sub base, 6"	Formwork	413	sf	\$16.00	\$6,600
Reinforcing steel, 2psf	Sand base, 4"	40,768	sf	\$1.50	\$61,152
Finish to slab	Gravel sub base, 6"	40,768	sf	\$1.72	\$70,121
Vapor barrier Slab On Grade 6" Thick, 4000 psi, at Level 1	Reinforcing steel, 2psf	81,536	lbs	\$1.25	\$101,920
Slab On Grade 6" Thick, 4000 psi, at Level 1 Concrete, slab on grade, 4000 psi 257 cy \$375.00 \$96,52 Formwork 248 sf \$16.00 \$3.96,52 Sand base, 4" 13,237 sf \$1.50 \$19,85 Gravel sub base, 6" 13,237 sf \$1.72 \$22,76 Reinforcing steel, 2psf 26,474 lbs \$1.25 \$33,00 Finish to slab 13,237 sf \$1.00 \$15,88 Vapor barrier 200,000 psi 200,000 psi above Basement Concrete, slab, 4000 psi 200,000 psi above Basement Concrete, slab, 4000 psi 200,000 psi 200,000 psi 200,000 psi Formwork 41,456 sf 516.00 Parkim, Reinforcing steel, 2psf 81,536 lbs \$15.00 Parkim, Reinforcing steel, 2psf 81,536 lbs \$1.25 Parkim, Reinforcing steel, 2psf 81,536 lbs \$1.20 Parkim, Reinforcing steel, 2psf \$1.00 Parkim, Thermal insulation \$1.00 \$1.50 Parkim, Thermal insulation \$1.00 \$1.50 Parkim, Reinforcing steel, 2psf \$1.00 Parkim, Thermal insulation \$1.50 Parkim, Thermal insulation \$	Finish to slab	40,768	sf	\$1.20	\$48,922
Concrete, slab on grade, 4000 psi	Vapor barrier	40,768	sf	\$1.00	\$40,768
Formwork Sand base, 4" 13,237 sf \$16,00 \$3,96 Sand base, 6" 13,237 sf \$1,50 \$19,85 Gravel sub base, 6" 13,237 sf \$1,72 \$22,76 Reinforcing steel, 2psf 26,474 lbs \$1,25 \$33,09 Finish to slab 13,237 sf \$1,00 \$15,05 Vapor barrier 13,237 sf \$1,00 \$15,05 Vapor barrier Concrete, Slab, 4000 psi above Basement Concrete, slab, 4000 psi 13,23 Concrete Podium Slab, 10" Thick, 4000 psi above Basement Concrete, slab, 4000 psi 1,321 cy \$375,00 Parkim, Scaffolding 40,768 sf \$16,00 Parkim, Reinforcing steel, 2psf 81,536 lbs \$1,25 Parkim, Reinforcing steel, 2psf 81,536 lbs \$1,25 Parkim, Yapor barrier 40,768 sf \$1,00 Parkim, Thermal insulation 40,768 sf \$1,00 Parkim, Thermal insulation 40,768 sf \$1,00 Parkim, Thermal insulation 50,760 ft \$1,00 Parkim, Thermal insul	Slab On Grade 6" Thick, 4000 psi, at Level 1				
Sand base, 4" 13,237 sf \$1.50 \$19,85 Gravel sub base, 6" 13,237 sf \$1.72 \$22,76 Reinforcing steel, 2psf 26,474 lbs \$1.25 \$32,00 Finish to slab 13,237 sf \$1.00 \$15,88 Vapor barrier 13,237 sf \$1.00 \$13,23 Concrete Podium Slab, 10" Thick, 4000 psi above Basement 13,231 cy \$375.00 Parkin, Concrete, slab, 4000 psi 1,321 cy \$375.00 Parkin, Scaffolding 40,768 sf \$15.00 Parkin, Scaffolding 40,768 sf \$15.00 Parkin, Reinforcing steel, 2psf 81,536 lbs \$1.25 Parkin, Vapor barrier 40,768 sf \$1.00	Concrete, slab on grade, 4000 psi	257	су	\$375.00	\$96,520
Gravel sub base, 6" 13,237 sf \$1,72 \$22,76 Reinforcing steel, 2psf 26,474 lbs \$1,25 \$33,09 Finish to Stab 13,237 sf \$1,00 \$15,88 Vapor barrier 13,237 sf \$1,00 \$13,23 Concrete, Podium Slab, 10" Thick, 4000 psi above Basement Concrete, Stab, 4000 psi 1,321 cy \$375,00 Parking Concrete, Stab, 4000 psi 1,321 cy \$375,00 Parking Scaffolding 40,768 sf \$15,00 Parking Scaffolding 40,768 sf \$15,00 Parking Reinforcing steel, 2psf 81,536 lbs \$1,22 Parking Vapor barrier 40,768 sf \$1,00 Parking Vapor barrier 40,768 sf \$1,00 Parking Thermal insulation 40,768 sf \$1,00 Parking Structural Steel WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$6,673.40	Formwork	248	sf	\$16.00	\$3,968
Reinforcing steel, 2psf 26,474 lbs \$1.25 \$33,09 Finish to slab 13,237 sf \$1.20 \$15,58 Vapor barrier 13,237 sf \$1.00 \$15,58 Concrete Podium Slab, 10" Thick, 4000 psi above Basement Concrete, slab, 4000 psi 1,321 cy \$375.00 Parking Formwork 41,456 sf \$16.00 Parking Scaffolding 40,768 sf \$15.00 Parking Reinforcing steel, 2psf 81,536 lbs \$1.25 Parking Finish to slab 40,768 sf \$1.20 Parking Vapor barrier 40,768 sf \$1.00 Parking Thermal insulation 347 tn \$4,500.00 \$36,536 Structural Steel WF beams, allow 10# / sf, at Roof 347 tn \$4,500.00 \$67,340 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,35 WF beams, allow 20# / sf, at Green Roof 82 tn <td>Sand base, 4"</td> <td>13,237</td> <td>sf</td> <td>\$1.50</td> <td>\$19,856</td>	Sand base, 4"	13,237	sf	\$1.50	\$19,856
Finish to slab	Gravel sub base, 6"	13,237	sf	\$1.72	\$22,768
Vapor barrier 13,237 sf \$1.00 \$13,23 Concrete Podium Slab, 10° Thick, 4000 psi 1,321 cy \$375.00 Parking Concrete, slab, 4000 psi 1,321 cy \$375.00 Parking Formwork 41,456 sf \$16.00 Parking Scaffolding 40,768 sf \$15.00 Parking Reinforcing steel, 2psf 81,536 lbs \$1.25 Parking Finish to slab 40,768 sf \$1.20 Parking Vapor barrier 40,768 sf \$1.00 Parking Thermal insulation 40,768 sf \$1.00 Parking Structural Steel WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$1,563.09 WF beams, allow 10# / sf, at Green Roof 32 tn \$4,500.00 \$673.40 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54	Reinforcing steel, 2psf	26,474	lbs	\$1.25	\$33,093
Concrete Podium Slab, 10" Thick, 4000 psi above Basement Concrete, slab, 4000 psi 1,321 cy \$375.00 Parking Formwork 41,456 sf \$16.00 Parking Scaffolding 40,768 sf \$15.00 Parking Reinforcing steel, 2psf 81,536 lbs \$1,25 Parking Reinforcing steel, 2psf 81,536 lbs \$1,25 Parking Reinforcing steel, 2psf 40,768 sf \$1.20 Parking Parkin	Finish to slab	13,237	sf	\$1.20	\$15,884
Concrete Podium Slab, 10" Thick, 4000 psi above Basement Concrete, slab, 4000 psi 1,321 cy \$375.00 Parking Formwork 41,456 sf \$16.00 Parking Scaffolding 40,768 sf \$15.00 Parking Reinforcing steel, 2psf 81,536 lbs \$1,25 Parking Reinforcing steel, 2psf 81,536 lbs \$1,25 Parking Reinforcing steel, 2psf 40,768 sf \$1.20 Parking Parkin	Vapor barrier	13,237	sf	\$1.00	\$13,237
Formwork	Concrete Podium Slab, 10" Thick, 4000 psi above Basement				
Formwork	Concrete, slab, 4000 psi	1,321	су	\$375.00	Parking
Scaffolding 40,768 sf \$15.00 Parking Reinforcing steel, 2psf Reinforcing steel, 2psf 81,536 lbs \$1.25 Parking Finish to slab Finish to slab 40,768 sf \$1.20 Parking Parking Finish to slab Vapor barrier 40,768 sf \$1.00 Parking Parking Parking Parking Finish to slab WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$1,563,09 WF beams, allow 20# / sf, at Green Roof 327 tn \$4,500.00 \$673,40 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$385,52 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$385,21 Upper Floors 92 91 tn \$3,500.00 \$416,82 <td>·</td> <td></td> <td>-</td> <td>\$16.00</td> <td>Parking</td>	·		-	\$16.00	Parking
Reinforcing steel, 2psf S1,536 lbs \$1.25 Parking Finish to slab 40,768 sf \$1.20 Parking Vapor barrier 40,768 sf \$1.00 Parking Vapor barrier 40,768 sf \$1.00 Parking Thermal insulation 40,768 sf \$2.00 Parking Thermal insulation 5tructural Steel	Scaffolding				Parking
Finish to slab	· · · · · · · · · · · · · · · · · · ·	81,536	lbs	\$1.25	Parking
Vapor barrier 40,768 sf \$1.00 Parking Thermal insulation 40,768 sf \$2.00 Parking Structural Steel WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$1,563,09 WF beams, allow 10# / sf, at Roof 150 tn \$4,500.00 \$673,40 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$422,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors Metal deck, 3" thick incl. rebar 69,471 sf \$6.00 \$416,82 </td <td></td> <td></td> <td></td> <td>·</td> <td>Parking</td>				·	Parking
Thermal insulation	Vapor barrier		sf	\$1.00	Parking
Structural Steel WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$1,563,09 WF beams, allow 10# / sf, at Roof 150 tn \$4,500.00 \$673,40 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 770 tn \$500.00 \$385,21 Upper Floors	·	•		·	Parking
WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof 347 tn \$4,500.00 \$1,563,09 WF beams, allow 10# / sf, at Roof 150 tn \$4,500.00 \$673,40 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$452,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors Metal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf \$8.25 \$246,91 Deck edging 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$3.500 \$3461 Floor deck finish 29,929 sf \$6.00 \$34,61 Floor deck finish 29,929 sf \$6.00 \$40,61 Green Roof, Sloped \$6,000 \$40,62 Green Roof, Flat \$6		,		,	. 3
WF beams, allow 10# / sf, at Roof 150 tn \$4,500.00 \$673,40 WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$452,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors Wetal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf \$6.00 \$49,27 Green Roof, Sloped \$6.00 \$6,00 \$		347	tn	\$4.500.00	\$1,563,099
WF beams, allow 20# / sf, at Green Roof 82 tn \$4,500.00 \$369,54 WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$452,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors 86,00 \$416,82 Metal deck, 3" thick 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf \$5.50 \$164,61 Roof 80,471 sf \$5.50 \$55.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Floor deck finish 29,929 sf \$35.00 \$34,61 Floor deck finish 29,929 sf \$6.00 \$49,27 Green Roof, Sloped None Shows Green Roof, Flat \$8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging<			tn		
WF beams, allow 20# / sf, at Glass Canopy 91 tn \$4,500.00 \$408,64 Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$452,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors 86,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf \$35.00 \$128,73 Roof 8416,40 \$35.00 \$128,73 Roof 8416,40 \$35.00 \$164,61 Concrete fill, 3 1/2" thick 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf \$8.25 \$246,91 Floor deck finish 29,929 sf \$8.25 \$8.60 Green Roof, Sloped \$8,212 sf \$6.00 \$49,27 Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8			-		\$369,540
Bolts, welds and connections, allow 15% 100 tn \$4,500.00 \$452,20 Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors Wetal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf \$5 Incl. Above Roof 8,212 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Floor deck finish 29,929 sf \$35.00 \$34,61 Floor deck finish 29,929 sf \$6.00 \$49,27 Green Roof, Sloped None Shows Green Roof, Flat \$6,00 \$49,27 Metal deck, 3" thick \$8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar \$8,212 sf \$8.50 \$69,80 Deck edging 798 lf <td></td> <td></td> <td>tn</td> <td></td> <td>\$408,645</td>			tn		\$408,645
Fireproofing to steelwork 770 tn \$500.00 \$385,21 Upper Floors Metal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf Incl. Above Roof Value Value Value Metal deck, 2" thick 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped None Shows Green Roof, Flat None Shows Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93	• • • • • • • • • • • • • • • • • • • •		-		
Upper Floors Metal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf Incl. Above Roof Wetal deck, 2" thick 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped None Showl Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93					\$385,210
Metal deck, 3" thick 69,471 sf \$6.00 \$416,82 Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf Incl. Above Roof 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped 8,212 sf Incl. Above Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93	· ·			,	, , , , ,
Concrete fill, 4" thick incl. rebar 69,471 sf \$8.50 \$590,50 Deck edging 3,678 lf \$35.00 \$128,73 Floor deck finish 69,471 sf Incl. Above Roof Metal deck, 2" thick 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped 29,929 sf Incl. Above Green Roof, Flat 8,212 sf \$6.00 \$49,27 Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93	• • •	69,471	sf	\$6.00	\$416,826
Deck edging 3,678 If \$35.00 \$128,73 Floor deck finish 69,471 sf Incl. Above Roof					\$590,504
Floor deck finish 69,471 sf Incl. Above Roof	,			·	\$128,730
Roof 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped None Shows Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93				******	Incl. Above
Metal deck, 2" thick 29,929 sf \$5.50 \$164,61 Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped None Shows Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93		,			
Concrete fill, 3 1/2" thick incl. rebar 29,929 sf \$8.25 \$246,91 Deck edging 989 lf \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above None Shown Green Roof, Sloped None Shown Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93		29.929	sf	\$5.50	\$164,610
Deck edging 989 If \$35.00 \$34,61 Floor deck finish 29,929 sf Incl. Above Green Roof, Sloped None Shows Green Roof, Flat 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 If \$35.00 \$27,93					\$246,914
Floor deck finish 29,929 sf Incl. Above None Shows Green Roof, Sloped None Shows Green Roof, Flat Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 If \$35.00 \$27,93					\$34,615
Green Roof, Sloped None Shows Green Roof, Flat 8,212 sf \$6.00 \$49,27 Metal deck, 3" thick 8,212 sf \$8.50 \$69,80 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93				7.5.55	Incl. Above
Green Roof, Flat Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93		_==,3 _=	-		None Shown
Metal deck, 3" thick 8,212 sf \$6.00 \$49,27 Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93	· ·				
Concrete fill, 4" thick incl. rebar 8,212 sf \$8.50 \$69,80 Deck edging 798 lf \$35.00 \$27,93		8 212	sf	\$6.00	\$49,272
Deck edging 798 If \$35.00 \$27,93				·	\$69,802
				·	
LINALANDA IIII OLI III OLI III OLI ADDVI	Floor deck finish	8,212	sf	Ψ00.00	Incl. Above

Miscellaneous Slab depressions, allow Miscellaneous Miscellaneous Miscellaneous Miscellaneous metals and concrete Miscellaneous Miscel	DETAIL ELEMENTS - CITY HALL OPTION 1					
Slab depressions, allow 98,700 gsf \$0,15 \$14,805 \$10,800 \$1,800 \$394,800	Element	Quantity	Unit	Unit Cost	Total	
Miscellaneous metals and concrete 98,700 gsf \$4,00 \$394,800	Miscellaneous					
Exterior Cladding	Slab depressions, allow	98,700	gsf	\$0.15	\$14,805	
Exterior Cladding Exterior Cladding Exterior Wall Substrate Metal Studs Standard, incl. insulation sheathing, vapor barrier at L1 5,416 sf \$30.00 \$415,410 \$	Miscellaneous metals and concrete	98,700	gsf	\$4.00	\$394,800	
Exterior Wall Substrate Metal Studs Standard, incl. insulation sheathing, vapor barrier at L1 5,416 sf \$30.00 \$162,480 \$1540,470, insulation sheathing, vapor barrier at L2, L3 & L4 13,847 sf \$30.00 \$415,410 \$1540,470, incl. insulation sheath, vapor barrier at L2, L3 & L4 13,847 sf \$30.00 \$415,410 \$1540,470, incl. insulation sheat, vapor bar, at roof stair/elevator encl. 1,606 sf \$30.00 \$48,180 \$1400,470, incl. insulation sheat, vapor bar, at roof mechanical encl. 4,424 sf \$25.00 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$110,600 \$100,600 \$	Total - Floor & Roof Structures				\$6,822,981	
Metal Studs Standard, incl. insulation sheathing, vapor barrier at L1 5,416 sf \$30.00 \$162,480 Standard, incl. insulation sheathing, vapor barrier at L2, L3 & L4 13,847 sf \$30.00 \$415,410 Standard, incl. insulation sheat., vapor bar. at roof stair/elevator encl. 1,606 sf \$30.00 \$48,180 Standard, incl. insulation sheat., vapor bar. at roof mechanical encl. 4,424 sf \$25.00 \$110,600 Standard, incl. insulation sheathing, vapor barrier at roof parapet 3,601 sf \$25.00 \$90,025 Precast Concrete Panels 7,021 sf \$90,00 \$631,890 \$631,890 \$00.0000 \$00.0000 \$00.000 \$00.000 \$00.000 \$00.0000 \$00.0000 \$00.0000 \$0	4 Exterior Cladding					
Standard, incl. insulation sheathing, vapor barrier at L1	Exterior Wall Substrate					
Standard, incl. insulation sheathing, vapor barrier at L2, L3 & L4 13,847 sf \$30.00 \$415,410 Standard, incl. insulation sheat., vapor bar. at roof stair/elevator encl. 1,606 sf \$30.00 \$48,180 Standard, incl. insulation sheat., vapor bar. at roof mechanical encl. 4,424 sf \$25.00 \$110,600 Standard, incl. insulation sheathing, vapor barrier at roof parapet 3,601 sf \$25.00 \$90,025 Precast Concrete Panels 7,021 sf \$90.00 \$631,890 Wood Panels 13,847 sf \$78.00 \$1,880,890 Metal Screen or Similar, Proud of Finishes Assume not required Glazing Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall, vision glass at L1 1,975 sf \$125.00 \$2,448,300 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,607,000 Finish at mechanical enclosure 4,424 sf \$60.00 \$2,607,000 </td <td>Metal Studs</td> <td></td> <td></td> <td></td> <td></td>	Metal Studs					
Standard, incl. insulation sheat., vapor bar. at roof stair/elevator encl. 1,606 sf \$30.00 \$48,180 Standard, incl. insulation sheat, vapor bar. at roof mechanical encl. 4,424 sf \$25.00 \$110,600 Standard, incl. insulation sheathing, vapor barrier at roof parapet 3,601 sf \$25.00 \$90,025 Precast Concrete Panels 7,021 sf \$90.00 \$631,890 Wood Panels 13,847 sf \$90.00 \$631,890 Wood Panels 13,847 sf \$90.00 \$631,890 Metal Screen or Similar, Proud of Finishes	Standard, incl. insulation sheathing, vapor barrier at L1	5,416	sf	\$30.00	\$162,480	
Standard, incl. insulation sheat, vapor bar. at roof mechanical encl. 4,424 sf \$25.00 \$110,600 Standard, incl. insulation sheathing, vapor barrier at roof parapet 3,601 sf \$25.00 \$90,025 Precast Concrete Panels 7,021 sf \$90.00 \$631,890 Wood Panels 13,847 sf \$90.00 \$631,890 Metal Screen or Similar, Proud of Finishes Rassume not required Glazing Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$150.00 \$2,248,830 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,2777,050 Finish at stair/elevator enclosure, allow precast concrete \$1,975 sf \$150.00 \$2,507,050 Exterior Doors Glass doors, double, allow 1 pr \$7,000.00 \$324,090 <tr< td=""><td>Standard, incl. insulation sheathing, vapor barrier at L2, L3 & L4</td><td>13,847</td><td></td><td>\$30.00</td><td></td></tr<>	Standard, incl. insulation sheathing, vapor barrier at L2, L3 & L4	13,847		\$30.00		
Standard, incl. insulation sheathing, vapor barrier at roof parapet 3,601 sf \$25.00 \$90,025 Precast Concrete Panels 7,021 sf \$90,00 \$631,890 Wood Panels 13,847 sf \$90,00 \$631,890 Metal Screen or Similar, Proud of Finishes Assume not required Glazing Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete 4,424 sf \$60.00 \$2,077,050 Finish at mechanical enclosure 4,424 sf \$60.00 \$2,654,40 Finish at roof parapet exterior, allow precast concrete 4,424 sf \$60.00 \$2,700.00 Glass doors, doubl				·		
Precast Concrete Panels 7,021 sf \$90.00 \$631,890 Wood Panels 13,847 sf \$78.00 \$1,080,066 Metal Screen or Similar, Proud of Finishes Assume not required Glazing \$1,080,066 Curtain wall, vision glass at L1 12,178 sf \$150.00 \$2,448,300 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$226,875 Finish at stair/elevator enclosure, allow precast concrete 4,424 sf \$60.00 \$265,440 Finish at rechanical enclosure 4,424 sf \$60.00 \$265,440 Finish at rechanical enclosure 4,424 sf \$60.00						
Wood Panels 13,847 sf \$78.00 \$1,080,066 Metal Screen or Similar, Proud of Finishes Assume not required Glazing Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete 10,000 \$1,000 \$2,007,050 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 1 pr \$4,750.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior clad				•		
Metal Screen or Similar, Proud of Finishes Assume not required Glazing Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$2,46,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete Incl. Above Incl. Above Finish at roof parapet exterior, allow precast concrete 3,601 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Assume not required HM doors, double, allow 1 pr \$7,000.00 \$70,000 Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$2,500.00 Overhead coiling door at loadin				·		
Curtain wall, vision glass at L1		13,847	sf	•		
Curtain wall, vision glass at L1 12,178 sf \$150.00 \$1,826,700 Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete Incl. Above Incl. Above Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 1 pr \$4,750.00 \$26,000 Overhead coiling door at loading doc				Assum	e not required	
Curtain wall, vision glass at L2, L3 & L4 16,322 sf \$150.00 \$2,448,300 Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete 4,424 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 1 pr \$4,750.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·					
Curtain wall support, steel framing, AESS 143 tn \$8,000.00 \$1,144,000 Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete 4,424 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors S \$7,000.00 \$70,000 Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 1 pr \$4,750.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500		•		•		
Punched glazing at L1 1,975 sf \$125.00 \$246,875 Glazing at L2, L3 & L4 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete				•		
Section 13,847 sf \$150.00 \$2,077,050 Finish at stair/elevator enclosure, allow precast concrete 4,424 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Section Secti						
Finish at stair/elevator enclosure, allow precast concrete Incl. Above Finish at mechanical enclosure 4,424 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors 10 pr \$7,000.00 \$70,000 Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000.00	· ·	•		•		
Finish at mechanical enclosure 4,424 sf \$60.00 \$265,440 Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Class doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000		13,847	st	\$150.00		
Finish at roof parapet exterior, allow precast concrete 3,601 sf \$90.00 \$324,090 Exterior Doors Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 1 pr \$4,750.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000		4.404		# 00.00		
Exterior Doors Glass doors, double, allow 10 pr \$7,000.00 \$70,000 Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous 8,265 sf \$500.00 \$4,132,500 Exterior glass canopy 8,265 sf \$500.00 \$41,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000				·		
Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000		3,001	Sī	\$90.00	\$324,090	
Glass doors, single Assume not required HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000	Glass doors, double, allow	10	pr	\$7,000.00	\$70,000	
HM doors, double, allow 1 pr \$4,750.00 \$4,750 HM doors, single, allow 10 ea \$2,500.00 \$25,000 Overhead coiling door at loading dock, finish to match exterior cladding 1 ea \$20,000.00 \$20,000 Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000			•	Assum	e not required	
Overhead coiling door at loading dock, finish to match exterior cladding Automatic door operators, allowance Automatic door operators, allowance Exterior glass canopy Exterior soffits, including framing and finish Exterior soffits, including framing and finish Exterior soffits, supports, detailing, etc. Misc. anchors, supports, detailing, etc. Mechanical screening, allowance 1 ls \$400,000.00 \$20,000 \$20,000 \$25,000	<u> </u>	1	pr			
Automatic door operators, allowance 1 ea \$25,000.00 \$25,000 Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 Is \$400,000.00 \$400,000	HM doors, single, allow	10	ea	\$2,500.00	\$25,000	
Miscellaneous Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000	Overhead coiling door at loading dock, finish to match exterior cladding	1	ea	\$20,000.00	\$20,000	
Exterior glass canopy 8,265 sf \$500.00 \$4,132,500 Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000	Automatic door operators, allowance	1	ea	\$25,000.00	\$25,000	
Exterior soffits, including framing and finish 2,977 sf \$75.00 \$223,275 Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000	Miscellaneous					
Misc. anchors, supports, detailing, etc. 73,216 wsf \$3.00 \$219,648 Mechanical screening, allowance 1 ls \$400,000.00 \$400,000	Exterior glass canopy	8,265	sf	\$500.00	\$4,132,500	
Mechanical screening, allowance 1 Is \$400,000.00 \$400,000	Exterior soffits, including framing and finish	2,977	sf	\$75.00	\$223,275	
		73,216	wsf		\$219,648	
Mockups and testing 1 Is \$100,000.00 \$100,000	Mechanical screening, allowance	1	ls	\$400,000.00	\$400,000	
	Mockups and testing	1	ls	\$100,000.00	\$100,000	

Total - Exterior Cladding

\$16,091,279

DETAIL ELEMENTS - CITY HALL OPTION 1				
Element	Quantity	Unit	Unit Cost	Total
5 Roofing and Waterproofing				
Roofing				
Roof finish				
Finish, incl. roof board and insulation	29,929	sf	\$20.00	\$598,580
Finish, incl. roof board and insulation, at back of parapet	3,601	sf	\$25.00	\$90,025
Pavers at roof patio, allow	5,000	sf	\$60.00	\$300,000
Flashing / Counterflashing				
Aluminum coping at parapets	989	lf	\$42.00	\$41,538
Base flashing, at base of parapets	989	lf	\$30.00	\$29,670
Green Roof system				
Waterproofing, drainage board, and specialties	10,606	sf	\$25.00	\$265,150
Lightweight soil, 36"	912	су	\$150.00	\$136,867
Shrubbery & planting	8,212	sf	\$10.00	\$82,120
Trees, allowance	8,212	sf	\$15.00	\$123,180
Irrigation system	8,212	sf	\$5.00	\$41,060
Miscellaneous				
Caulking / sealants, misc. sheetmetal	98,700	gsf	\$0.40	\$39,480
Traffic pads, allow	1,500	sf	\$15.00	\$22,500
Glass guardrail	600	lf	\$500.00	\$300,000
Total - Roofing and Waterproofing				\$2,070,170
6 Interior Partitions, Doors and Glazing				
Rough Carpentry	98,700	gsf	\$0.50	\$49,350
Interior Partitions	98,700	gsf	\$25.00	\$2,467,500
Interior Doors & Hardware	98,700	gsf	\$6.00	\$592,200
Interior Glazing	98,700	gsf	\$3.00	\$296,100
Total - Interior Partitions, Doors and Glazing				\$3,405,150
7 Floor, Wall and Ceiling Finishes				
Floor finishes	00 700	act	ድር ሰር	\$888,300
	98,700 98,700	gsf	\$9.00 \$3.00	\$296,100
Vapor membrane at adhered floor finishes Base finishes	98,700	gsf	\$3.00 \$1.20	\$296,100
Wall finishes	98,700	gsf gsf	\$1.20 \$10.00	\$118,440
Ceiling finishes	98,700	-	\$8.00	\$789,600
Premium for Council Chamber, allow	12,651	gsf sf	\$6.00 \$50.00	\$632,550
Miscellaneous	98,700		\$50.00 \$1.25	\$032,550 \$123,375
IVIISCEIIAI IECUS	90,700	gsf	φ1.∠3	φιΖυ,υ/ υ
Total - Floor, Wall and Ceiling Finishes				\$3,835,365

DETAIL ELEMENTS - CITY HALL OPTION 1					
Element	Quantity	Unit	Unit Cost	Total	
8 Function Equipment and Specialties					
Kitchenette / Residential Kitchen Equipment	1	alw	\$25,000.00	\$25,000	
Loading dock equipment	1	alw	\$25,000.00	\$25,000	
Building casework Restroom partitions & accessories	98,700 3,600	gsf sf	\$6.00 \$73.00	\$592,200 \$262,800	
Shower accessories & lockers	300	sf	\$90.00	\$202,000	
Bike racks at bike storage room, allow	35	ea	\$1,200.00	\$42,000	
Building interior signage - directional & room identification	98,700	gsf	\$1.50	\$148,050	
Premium for Parking Garage signage / counting systems / barriers / bollards	40,768	sf	\$3.00	Parking	
Premium for Council Chamber	12,651	sf	\$25.00	\$316,275	
Miscellaneous fixed specialties	98,700	gsf	\$0.85	\$83,895	
Total - Function Equipment and Specialties				\$1,522,220	
9 Stairs and Vertical Transportation					
Stairs & Railings					
Stair, feature - allow roof and basement access	5	flt	\$75,000.00	\$375,000	
Stair, standard - no roof access, allow basement access	4	flt	\$35,000.00	\$140,000	
Elevators, 5 stop - allow roof & basement access					
Passenger elevator, MRL	2	ea	\$400,000.00	\$800,000	
Cab finish, allow	2	ea	\$15,000.00	\$30,000	
Service elevator, incl. cab finish	1	ea	\$400,000.00	\$400,000	
Total - Stairs and Vertical Transportation				\$1,745,000	
10 Plumbing Systems					
Basement - Parking	40,768	gsf	\$4.00	Parking	
Level 1	29,229	gsf	\$21.00	\$613,817	
Level 2	21,219	•	\$21.00	\$445,605	
Level 3	21,219	•	\$21.00	\$445,605	
Level 4	21,219	•	\$21.00	\$445,605	
Roof Enclosures	5,813	gsf	\$14.70	\$85,453	
Total - Plumbing Systems				\$2,036,086	
11 Heating, Ventilation and Air Conditioning					
Basement - Parking	40,768	gsf	\$6.00	Parking	
Level 1	29,229	gsf	\$51.00	\$1,490,698	

DETAIL ELEMENTS - CITY HALL OPTION 1					
Element	Quantity	Unit	Unit Cost	Total	
Level 2	21,219	gsf	\$51.00	\$1,082,185	
Level 3	21,219	gsf	\$51.00	\$1,082,185	
Level 4	21,219	gsf	\$51.00	\$1,082,185	
Roof Enclosures	5,813	gsf	\$35.70	\$207,529	
Total - Heating, Ventilation and Air Conditioning				\$4,944,781	
12 Electrical Lighting, Power and Communications					
Electrical Service & Distribution					
Service & Distribution					
Main Switchboard 4000 amp 277/480v 3ph 4w	1	ea	\$125,742.91	\$125,743	
Dist. Panelboard 1200 amp 277/480v 3ph 4w	1	ea	\$26,188.69	\$26,189	
Dist. Panelboard 2000 amp 277/480v 3ph 4w	1	ea	\$87,450.00	\$87,450	
MCC Panelboard 2000 amp 277/480v 3ph 4w	1	ea	\$62,500.00	\$62,500	
Panelboard 225 amp 277/480v 3ph 4w	5	ea	\$3,850.24	\$19,251	
Panelboard 225 amp 120/208v 3ph 4w	5	ea	\$3,319.88	\$16,599	
Panelboard 100 amp 277/480v 3ph 4w	1	ea	\$3,208.21	\$3,208	
Panelboard 100 amp 120/208v 3ph 4w	1	ea	\$2,681.48	\$2,681	
Panelboard 60 amp 277/480v 3ph 4w	1	ea	\$2,555.35	\$2,555	
Panelboard 60 amp 120/208v 3ph 4w	1	ea	\$2,435.04	\$2,435	
Transformer 2500 kva 12.47kv - 480- 120/208v 3ph 4w N3R K-Rated	1	ea	\$61,875.00	\$61,875	
Transformer 75 kva 480- 120/208v 3ph 4w K-Rated	5	ea	\$6,038.25	\$30,191	
Transformer 30 kva 480- 120/208v 3ph 4w K-Rated	1	ea	\$4,975.00	\$4,975	
Transformer 15 kva 480- 120/208v 3ph 4w K-Rated	1	ea	\$3,472.00	\$3,472	
Busway - 2000A 480/277v 3ph 4w	195	lf	\$1,850.00	\$360,750	
Busway - 200A 277/480v 3ph 4w Transition Tap Box	5	ea	\$2,875.00	\$14,375	
Busway 400A supports	11	ea	\$450.00	\$4,950	
Busway 400A end closure	1	ea	\$2,280.00	\$2,280	
Grounding system	1	ls	\$15,000.00	\$15,000	
Conduit and building wire for service equipment					
Feeder, 60 amp	50	lf	\$15.48	\$774	
Feeder, 100 amp	150	lf	\$26.29	\$3,944	
Feeder, 225 amp	325	lf	\$36.48	\$11,856	
Feeder, 400 amp	100	lf	\$96.77	\$9,677	
Feeder, 600 amp	100	lf	\$142.89	\$14,289	
Feeder, 1000 amp	75	lf	\$250.00	\$18,750	
Feeder, 1200 amp (underground)	50	lf	\$298.75	\$14,938	
Feeder, 2000 amp	100	lf	\$595.00	\$59,500	
Feeder, 4000 amp 21kv (underground) (concrete-encased)	75	lf	\$1,465.27	\$109,895	
Conduit supports	1	ls	\$45,000.00	\$45,000	
EM Service and Distribution					
Emergency System					
Generator, diesel 550 kW 480/277v 3ph 4w N3R	1	ea	\$651,670.00	\$651,670	
Automatic transfer switch, 600/3 by-pass isolation				NIC	
Automatic transfer switch, 100/4 by-pass isolation	1	ea	\$16,654.00	\$16,654	
UPS system, 750kVA with by-pass (15 minute battery)	1	ea	\$575,000.00	\$575,000	
HVAC Equipment Connections	98,700	gsf	\$0.50	\$49,350	
Conduit and building wire for equipment	98,700	gsf	\$1.75	\$172,725	

DETAIL ELEMENTS - CITY HALL OPTION 1

nent	Quantity	Unit	Unit Cost	Total
Convenience Power				
Convenience power				
Single receptacle, 20 amp 120v	8	ea	\$137.16	\$1,
Duplex outlet, 20 amp 120v	529	ea	\$137.16	\$72,
Duplex outlet, 20 amp 120v gfci	57	ea	\$148.31	\$8,
Duplex outlet, 20 amp 120v gfci wp (site/ext. bldg.)	7	ea	\$178.25	\$1,
Duplex outlet, 20 amp 120v gfci wp (elevator)	4	ea	\$178.25	\$
Duplex outlet, 20 amp 120v gfci wp (roof)	5	ea	\$178.25	\$
Double duplex outlet, 20 amp 120v	754	ea	\$188.74	\$142,
Specialty receptacles, 30 amp gfci wp (Window washing equip.)	4	ea	\$345.00	\$1,
Specialty receptacles, 30 amp to 50 amp	35	ea	\$345.00	\$12,
Floorbox / Poke Thru outlet - double duplex / Tel-Data outlet, 20 amp 120v	40	ea	\$475.00	\$19,
Junction box, 120V Furniture connection	75	ea	\$275.00	\$20,
Electronic door hold open connection, 120v	7	ea	\$500.00	\$3,
Fire Alarm system connection, 120v	. 1	ls	\$15,000.00	\$15,
Fire Fighter / Public Emergency Phone system connection, 120v	1	ls	\$5,000.00	\$5,
Security system connection, 120v	1	ls	\$9,250.00	\$9,
Conduit and building wire for power	,	10	ψ3,200.00	Ψ5,
Feeder, 15 amp - 20 amp	28,341	lf	\$11.50	\$325,
Feeder, 15 amp - 20 amp (underground)	880	if	\$10.95	Ψ323, \$9,
Lighting & Branch Wiring	000		Ψ10.50	Ψ5,
Light Fixtures LED, Interior & Exterior (Bldg.)	98,700	nef	\$11.00	\$1,085
Lighting Control System	98,700	gsf	\$3.50	\$345,
Conduit and building wire for lighting and lighting control & daylighting sy.	30,700	951	ψ0.00	ΨΟ-10,
Feeder, 15 amp - 20 amp	52,274	lf	\$11.50	\$601,
Feeder, 15 amp - 20 amp (underground)	8,000	if	\$10.95	\$87,
Cat 6e lighting control and daylighting system cable	1	ls	\$75,000.00	\$75,
Miscellaneous electrical		10	ψ10,000.00	Ψ10,
Coordination study and third party services	1	ls	\$50,000.00	\$50,
Testing	1	ls	\$75,000.00	\$75
Lightning protection system	1	ls	\$225,000.00	\$225,
BIM	98,700	gsf	\$2.00	\$197
Temporary power & lighting	98,700	gsf	\$2.25	\$222,
Communications & Security	30,700	931	Ψ2.23	ΨΖΖΖ
Telephone Data Systems conduit, cable tray ,back boxes, rough	98,700	gsf	\$3.75	\$370,
Access Control	98,700	gsf	\$2.00	\$197
Security Systems	98,700	gsf	\$2.50	\$246,
Fire alarm Systems	98,700	gsf	\$4.50	\$444,
Fire Fighter and Public Emergency Phone Systems	98,700	gsf	\$1.25	\$123,
A/V Systems rough conduit and back boxes	98,700	gsf	\$1.25	\$123,
Sound Masking System	98,700	gsf	\$2.15	\$212,
Other Electrical Systems	90,700	ysi	Ψ2.13	ΨΖ1Ζ,
Photovoltaic Steel Structure @ Roof				By Oth
Photovoltaic Steel Structure @ Roof Photovoltaic Power				Бу Оп
PV System @ Roof (Bldg.)	20,020	act	ć	Soo Summ
PV System	29,929	gsf	3	See Summ

Element	Quantity	Unit	Unit Cost	Total
13 Fire Protection Systems				
Basement - Parking	40,768	gsf	\$5.00	Parking
Level 1	29,229	gsf	\$7.00	\$204,606
Level 2	21,219	gsf	\$7.00	\$148,535
Level 3	21,219	gsf	\$7.00	\$148,535
Level 4	21,219	gsf	\$7.00	\$148,535
Roof Enclosures	5,813	gsf	\$4.90	\$28,484
Soffits / Overhangs	2,977	sf	\$7.00	\$20,839
Total - Fire Protection Systems				\$699,534

14 Site Preparation and Demolition

Master Plan Scope of Work

Total - Site Preparation and Demolition

15 Site Paving, Structures & Landscaping

Master Plan Scope of Work

Total - Site Paving, Structures & Landscaping				
16 Utilities on Site				
Utility Connections to Building, <=200LF Runs	1	ls	\$500,000.00	\$500,000
Total - Utilities on Site				\$500,000

Site Development Phase 1 - Option 1

SUMMARY - SITE DEVELOPMENT PHASE 1 - OPTION 1 Cost / SF **Element** Subtotal Total Cost / SF E) Site Construction (14-16) \$11,773,149 \$26.19 14 Site Preparation and Demolition \$1,169,244 \$2.60 15 Site Paving, Structures & Landscaping \$19.84 \$8,917,898 16 Utilities on Site \$1,686,008 \$3.75 \$11,773,149 \$26.19 Subtotal **General Conditions** 10.00% \$1,177,315 \$2.62 \$28.80 \$12,950,464 Subtotal Bonds & Insurance 2.00% \$235,463 \$0.52 Subtotal \$13,185,927 \$29.33 Contractor's Fee 5.00% \$659,296 \$1.47 \$13,845,224 \$30.79 Subtotal **Design Contingency** 20.00% \$2,769,045 \$6.16 TOTAL ESTIMATED CONSTRUCTION COST \$16,614,268 \$36.95

Total Area: 449,602 SF

DETAIL ELEMENTS - SITE DEVELOPMENT PHASE 1 - OPTION 1				
Element	Quantity	Unit	Unit Cost	Total
14 Site Preparation and Demolition				
Earthwork / Demo				
Clear and grub site	449,602	sf	\$0.50	\$224,801
Cut, allow 6" average over site area	9,000	су	\$10.00	\$90,000
Fill, allow 3" average over site area	5,000	су	\$10.00	\$50,000
Offhaul	5,000	су	\$35.00	\$175,000
Tree protection	449,602	sf	\$0.25	\$112,401
Miscellaneous rough grading, allowance	449,602	sf	\$0.35	\$157,361
Fine grading	449,602	sf	\$0.50	\$224,801
Erosion control	449,602	sf	\$0.30	\$134,881
Total - Site Preparation and Demolition				\$1,169,244
15 Site Paving, Structures & Landscaping				
Hardscape / Paving				
Granite pavers at Plaza	52,091	sf	\$60.00	\$3,125,460
Precast concrete pavers, custom, back of house	23,639	sf	\$30.00	\$709,170
AC Paving		•	7	*********
Parking lot				Excluded
Driveway / access road - overlay only	37,490	sf	\$2.00	\$74,980
Curbs and gutters to above	37,490	sf	\$1.00	\$37,490
Pedestrian walkways, assume 7'-0" wide	4,472	lf	\$140.00	\$626,080
Amphitheatre, allow	.,		V	¥,
Granite benches	182	lf	\$400.00	\$72,800
Granite paving	2,873	sf	\$60.00	\$172,380
Landscaping	_,0.0	٠.	·	Landscaping
Miscellaneous furniture, lighting, power, etc.	10,236	sf	\$5.00	\$51,180
Site Structures, Seat Walls, Etc., Allow	10,200	O.	ψ0.00	ψο 1, 100
Granite benches, partially buried	1,116	lf	\$475.00	\$530,100
Miscellaneous, allow	449,602	gsf	\$0.30	\$134,881
Bike Racks, allow	50	ea	\$1,200.00	\$60,000
Secure bicycle parking, covered, incl. fence, gate and bike racks, allow	1	ea	\$20,000.00	\$20,000
Secure Entrance, Barriers, Badged w / Intercom	·	ou	Ψ20,000.00	Ψ20,000
Entry / Exit, allow			Assume	Not Required
Entry Only, allow				Not Required
Control station, allow				Not Required
Signage & Wayfinding			710001110	rvot rioquirou
Parking lot direction signage, paint				Excluded
Driveway / access road directional signage				Included
Parking stalls				Excluded
Metal embedded signage, at pedestrian surfaces, allow	2	00	\$15,000.00	\$30,000
Building exterior signage, allow	1	ea Is	\$50,000.00	\$50,000
Landscaping and Irrigation	ı	ıs	φυυ,υυυ.υυ	ψ50,000
· · ·	185,328	cf	\$5.00	\$926,640
"Light touch", typical	116,877	sf sf	\$5.00 \$15.00	
Upgraded landscaped areas				\$1,753,155
Large trees, including tree grates	45	ea	\$2,000.00	\$90,000
Small red trees, including tree grates	37 5 300	ea	\$1,700.00	\$62,900
Bio-Retention Areas, Plaza Only, allow 10%	5,209	gsf	\$75.00	\$390,683

Element	Quantity	Unit	Unit Cost	Total
Total - Site Paving, Structures & Landscaping				\$8,917,89
16 Utilities on Site				
Utilities				
Traffic Signalization				Exclude
Miscellaneous site utilities	449,602	sf	\$1.50	\$674,40
Site utility connections to bldgs.				With Building
Central Plant and Fire Water Loops				Exclude
Storm Drainage	449,602	sf	\$1.00	\$449,60
Site Lighting	449,602	sf	\$1.25	\$562,00

Sunnyvale Master Plan Sunnyvale, CA Rough Order of Magnitude Rev6

Project # 17-00701.00 11/01/17

City Hall Option 2

Element	Subtotal	Total	Cost / SF	Cost / SF
A) Shell (1-5)		\$26,247,829		\$265.94
1 Foundations	\$2,794,136		\$28.31	•
2 Vertical Structure	\$1,786,636		\$18.10	
3 Floor & Roof Structures	\$7,252,862		\$73.48	
4 Exterior Cladding	\$11,236,797		\$113.85	
5 Roofing and Waterproofing	\$3,177,398		\$32.19	
B) Interiors (6-7)		\$7,240,515		\$73.36
6 Interior Partitions, Doors and Glazing	\$3,405,150		\$34.50	
7 Floor, Wall and Ceiling Finishes	\$3,835,365		\$38.86	
C) Equipment and Vertical Transportation (8-9)		\$3,267,220		\$33.10
8 Function Equipment and Specialties	\$1,522,220		\$15.42	
9 Stairs and Vertical Transportation	\$1,745,000		\$17.68	
D) Mechanical and Electrical (10-13)		\$16,248,896		\$164.63
10 Plumbing Systems	\$2,036,070		\$20.63	
11 Heating, Ventilation and Air Conditioning	\$4,944,742		\$50.10	
12 Electrical Lighting, Power and Communications	\$8,567,008		\$86.80	
13 Fire Protection Systems	\$701,076		\$7.10	
E) Site Construction (14-16)		\$500,000		\$5.07
14 Site Preparation and Demolition				
15 Site Paving, Structures & Landscaping				
16 Utilities on Site	\$500,000		\$5.07	
Subtotal		\$53,504,460	_	\$542.09
General Conditions	10.00%	\$5,350,446		\$54.21
Subtotal		\$58,854,906	_	\$596.30
Bonds & Insurance	2.00%	\$1,070,089		\$10.84
Subtotal		\$59,924,995	_	\$607.14
Contractor's Fee	5.00%			\$30.36
Subtotal		\$62,921,245	_	\$637.50
Design Contingency	20.00%	\$12,584,249		\$127.50

Total Area:

98,700 SF

DETAIL ELEMENTS - CITY HAI	LL OPTION 2			
Element	Quantity	Unit	Unit Cost	Total
1 Foundations				
Layout	40,768	sf	\$0.50	\$20,384
Basement Excavation				
Mass Excavation	24,159	су	\$8.50	Parking
Dispose of excavated material	28,991	tn	\$30.00	Parking
Shoring, Soldier Pile Wall	20,620	sf	\$55.00	Parking
Backfill	1,845	tn	\$40.00	Parking
Dewatering system set up	1	ls	\$100,000.00	Parking
Dewatering management, allow 9 months	9	mnth	\$10,000.00	Parking
Foundations				
Rat Slab - Poured over complete basement	453	су	\$225.00	\$101,920
Pile caps	853	су	\$750.00	\$639,37
Grade beams	736	сy	\$750.00	\$552,18
Waterproofing slab	736	sf	\$11.00	\$8,099
Misc foundations for shear walls, etc	227	lf	\$750.00	\$170,250
Piles / caissons / deep foundations, allow	40,768	sf	\$27.72	\$1,130,00
Miscellaneous	,		•	, ,,
Elevator pit, passenger	2	ea	\$25,000.00	\$50,000
Elevator pit, service	_ 1	ea	\$20,000.00	\$20,000
Mud slab, allow	40,768	sf	\$2.50	\$101,920
Total - Foundations				\$2,794,136
rotal roundations				ΨΣ,104,100
2 Vertical Structure				
Cast-In-Place Concrete Shear Walls, allow 16'-0" high, 1'-0" thick at Basement				
Concrete, shear walls, 5000 psi	642		\$425.00	Parking
Formwork, shear walls	32,992	sf	\$24.00	Parking
Wall reinforcing (150 #/cy)	96,227	lbs	\$1.75	Parking
Finish to walls	16,496	sf	\$1.50	Parking
Waterproofing	16,496	sf	\$18.00	Parking
Thermal insulation	16,496	sf	\$2.00	Parking
Cast-In-Place Concrete Columns, allow at Basement	40,768	sf	\$8.50	Parking
Structural Steel				
Structural steel columns, tube steel	130	tn	\$5,000.00	\$647,70
Structural steel columns at green roof, tube steel	18	tn	\$5,000.00	\$90,00
Round columns	37	tn	\$5,000.00	\$182,56
Round columns at green roof	18	tn	\$5,000.00	\$90,000
BRBFs, allow	98,700	gsf	\$5.00	\$493,50
Bolts, welds and connections, allow 15%	30	tn	\$5,500.00	\$166,69
Fireproofing to steelwork	232	tn	\$500.00	\$116,180
				A
Total - Vertical Structure				\$1,786,63

DETAIL ELEMENTS - CITY HALL OPTION 2				
Element	Quantity	Unit	Unit Cost	Total
3 Floor & Roof Structures				
Slab On Grade 6" Thick, 4000 psi, at Basement				
Concrete, slab on grade, 4000 psi	793	су	\$375.00	\$297,267
Formwork	516	sf	\$16.00	\$8,248
Sand base, 4"	40,768	sf	\$1.50	\$61,152
Gravel sub base, 6"	40,768	sf	\$1.72	\$70,121
Reinforcing steel, 2psf	81,536	lbs	\$1.25	\$101,920
Finish to slab	40,768	sf	\$1.20	\$48,922
Vapor barrier	40,768	sf	\$1.00	\$40,768
Slab On Grade 6" Thick, 4000 psi, at Level 1	,		•	. ,
Concrete, slab on grade, 4000 psi	377	су	\$375.00	\$141,560
Formwork	309	sf	\$16.00	\$4,944
Sand base, 4"	19,414	sf	\$1.50	\$29,121
Gravel sub base, 6"	19,414	sf	\$1.72	\$33,392
Reinforcing steel, 2psf	38,828	lbs	\$1.25	\$48,535
Finish to slab	19,414	sf	\$1.20	\$23,297
Vapor barrier	19,414	sf	\$1.00	\$19,414
Concrete Podium Slab, 10" Thick, 4000 psi above Basement	,	σ.	¥••	4.0,
Concrete, slab, 4000 psi	1,321	су	\$375.00	Parking
Formwork	41,627	sf	\$16.00	Parking
Scaffolding	40,768	sf	\$15.00	Parking
Reinforcing steel, 2psf	81,536	lbs	\$1.25	Parking
Finish to slab	40,768	sf	\$1.20	Parking
Vapor barrier	40,768	sf	\$1.00	Parking
Thermal insulation	40,768	sf	\$2.00	Parking
Structural Steel	10,100	O.	Ψ2.00	ranng
WF beams, allow 10# / sf, at L2, L3, L4 & Enclosed Roof	342	tn	\$4,500.00	\$1,538,261
WF beams, allow 10# / sf, at Roof	152	tn	\$4,500.00	\$682,482
WF beams, allow 20# / sf, at Green Roof	189	tn	\$4,500.00	\$850,500
Bolts, welds and connections, allow 15%	102	tn	\$4,500.00	\$460,686
Fireproofing to steelwork	785	tn	\$500.00	\$392,437
Upper Floors	100	G i	Ψ000.00	φουΣ, το τ
Metal deck, 3" thick	68,367	sf	\$6.00	\$410,203
Concrete fill, 4" thick incl. rebar	68,367	sf	\$8.50	\$581,121
Deck edging, 16 GA	3,594	lf	\$35.00	\$125,790
Floor deck finish	0,001		φου.σσ	Incl. Above
Roof				11101.710000
Metal deck, 2" thick	30,333	sf	\$5.50	\$166,829
Concrete fill, 3 1/2" thick incl. rebar	30,333	sf	\$8.25	\$250,243
Deck edging, 16 GA	1,608	lf	\$35.00	\$56,280
Floor deck finish	1,000		φου.σο	Incl. Above
Green Roof, Sloped				
Metal deck, 3" thick	15,700	sf	\$6.00	\$94,200
Concrete fill, 4" thick incl. rebar	15,700	sf	\$8.50	\$133,450
Deck edging, 16 GA	842	If	\$35.00	\$29,470
Floor deck finish	042	.,	ψ00.00	Incl. Above
Green Roof, Flat				
Metal deck, 3" thick	7,950	sf	\$6.00	\$47,700
moter door, or think	1,550	Ji	ψ0.00	ΨΤΙ,ΙΟΟ

DETAIL ELEMENTS - CITY HAL	L OPTION 2			
Element	Quantity	Unit	Unit Cost	Total
Concrete fill, 4" thick incl. rebar	7,950	sf	\$8.50	\$67,575
Deck edging, 16 GA	782	lf	\$35.00	\$27,370
Floor deck finish				Incl. Above
Miscellaneous				
Slab depressions, allow	98,700	gsf	\$0.15	\$14,805
Miscellaneous metals and concrete	98,700	gsf	\$4.00	\$394,800
Total - Floor & Roof Structures				\$7,252,862
4 Exterior Cladding				
Exterior Wall Substrate				
Metal Studs				
Standard, incl. insulation sheathing, vapor barrier at L1	9,286	sf	\$30.00	\$278,580
Faceted walls, incl. insulation sheathing, vapor barrier at L1	1,088	sf	\$35.00	\$38,080
Standard, incl. insulation sheathing, vapor barrier at L2, L3 & L4	7,249	sf	\$30.00	\$217,470
Faceted walls, incl. insulation sheathing, vapor barrier at L2, L3 & L4	10,788	sf	\$35.00	\$377,580
Standard, incl. insulation sheat., vapor bar. at roof stair/elevator encl.	585	sf	\$30.00	\$17,550
Standard, incl. insulation sheat., vapor bar. at roof mechanical encl.	4,230	sf	\$25.00	\$105,750
Standard, incl. insulation sheathing, vapor barrier at roof parapet	3,112	sf	\$25.00	\$77,800
Precast Concrete Panels	12,032	sf	\$90.00	\$1,082,880
Metal Panels	16,962	sf	\$80.00	\$1,356,960
Glazing				
Curtain wall, vision glass at L1	6,074	sf	\$150.00	\$911,100
Faceted curtain wall, vision glass at L1	714	sf	\$155.00	\$110,670
Curtain wall, vision glass at L2, L3 & L4	6,151	sf	\$150.00	\$922,650
Faceted curtain wall, vision glass at L2, L3 & L4	738	sf	\$155.00	\$114,390
Curtain wall support, steel framing, AESS	69	tn	\$8,000.00	\$552,000
Punched glazing	21,769	sf	\$125.00	\$2,721,125
Finish at stair/elevator enclosure, allow precast concrete	,		·	Incl. Above
Finish at mechanical enclosure	4,230	sf	\$60.00	\$253,800
Finish at roof parapet exterior, allow precast concrete	3,112	sf	\$90.00	\$280,080
Exterior Doors	,		·	. ,
Glass doors, double	10	ea	\$7,000.00	\$70,000
Glass doors, single				e not required
HM doors, double	1	pr	\$4,750.00	\$4,750
HM doors, single, allow	10	ea	\$2,500.00	\$25,000
Overhead coiling door at loading dock, finish to match exterior cladding	1	ea	\$20,000.00	\$20,000
Automatic door operators, allowance	1	ea	\$25,000.00	\$25,000
Miscellaneous			 ,	+ ==,===
Wood cladding at terrace walls, ceiling and entrance	9,210	sf	\$78.00	\$718,380
Exterior soffits, including framing and finish	3,198	sf	\$75.00	\$239,850
Misc. anchors, supports, detailing, etc.	71,784	wsf	\$3.00	\$215,352
Mechanical screening, allowance	1	ls	\$400,000.00	\$400,000
Mockups and testing	1	ls	\$100,000.00	\$100,000

Total - Exterior Cladding

\$11,236,797

DETAIL ELEMENTS - CITY HALL OPTION 2				
Element	Quantity	Unit	Unit Cost	Total
5 Roofing and Waterproofing				
Roofing				
Roof finish				
Finish, incl. roof board and insulation	30,333	sf	\$20.00	\$606,650
Finish, incl. roof board and insulation, at back of parapet	3,112	sf	\$25.00	\$77,800
Wood deck / pavers at terraces	1,903	sf	\$75.00	\$142,725
Pavers at roof patio	5,000	sf	\$60.00	\$300,000
Flashing / Counterflashing	,		·	. ,
Aluminum coping at parapets	894	lf	\$42.00	\$37,548
Base flashing, at base of parapets	894	lf	\$30.00	\$26,820
Green Roof system	• • • • • • • • • • • • • • • • • • • •		400.00	4_0,0_0
Waterproofing, drainage board, and specialties	21,645	sf	\$25.00	\$541,125
Lightweight soil, 36"	2,405	су	\$150.00	\$360,750
Shrubbery & planting	18,900	sf	\$10.00	\$189,000
Trees, allowance	18,900	sf	\$15.00	\$283,500
Irrigation system	18,900	sf	\$5.00	\$94,500
Miscellaneous	10,900	31	ψ3.00	ψ94,500
Caulking / sealants, misc. sheetmetal	98,700	acf	\$0.40	\$39,480
· · · · · · · · · · · · · · · · · · ·		gsf sf	\$15.00	
Traffic pads, allow	1,500		•	\$22,500
Glass guardrail	910	lf	\$500.00	\$455,000
Total - Roofing and Waterproofing				\$3,177,398
6 Interior Partitions, Doors and Glazing				
Rough Carpentry	98,700	gsf	\$0.50	\$49,350
Interior Partitions	98,700	gsf	\$25.00	\$2,467,500
Interior Partitions Interior Doors & Hardware	98,700	•	\$6.00	\$592,200
Interior Glazing	98,700	gsf	\$3.00	\$296,100
interior Glazing	90,700	gsf	φ3.00	Ф290, 100
Total - Interior Partitions, Doors and Glazing				\$3,405,150
7 Floor, Wall and Ceiling Finishes				
Floor finishes	98,700	acf	\$9.00	\$888,300
		gsf	•	
Vapor membrane at adhered floor finishes Base finishes	98,700	gsf	\$3.00 \$1.20	\$296,100 \$118,440
	98,700	gsf	·	\$118,440
Wall finishes	98,700	gsf	\$10.00	\$987,000
Ceiling finishes	98,700	gsf	\$8.00	\$789,600
Premium for Council Chamber	12,651	sf	\$50.00	\$632,550
Miscellaneous	98,700	gsf	\$1.25	\$123,375
Total - Floor, Wall and Ceiling Finishes				\$3,835,365

DETAIL ELEMENTS - CITY HALL OPTION 2						
Element	Quantity	Unit	Unit Cost	Total		
8 Function Equipment and Specialties						
Kitchen equipment	1	alw	\$25,000.00	\$25,000		
Loading dock equipment	1	alw	\$25,000.00	\$25,000		
Building casework	98,700	gsf	\$6.00	\$592,200		
Restroom partitions & accessories	3,600	sf	\$73.00	\$262,800		
Shower accessories & lockers	300	sf	\$90.00	\$27,000		
Bike racks at bike storage room, allow	35	ea	\$1,200.00	\$42,000		
Building interior signage - directional & room identification	98,700	gsf	\$1.50	\$148,050		
Premium for Parking Garage signage / counting systems / barriers / bollards	28,117	sf	\$3.00 \$35.00	Parking		
Premium for Council Chamber	12,651	sf	\$25.00 \$0.85	\$316,275		
Miscellaneous fixed specialties	98,700	gsf	φ0.05	\$83,895		
Total - Function Equipment and Specialties				\$1,522,220		
9 Stairs and Vertical Transportation						
Stairs & Railings						
Stair, feature - allow roof and basement access	5	flt	\$75,000.00	\$375,000		
Stair, standard - no roof access, allow basement access	4	flt	\$35,000.00	\$140,000		
Elevators, 5 stop - allow roof & basement access						
Passenger elevator, MRL	2	ea	\$400,000.00	\$800,000		
Cab finish, allow	2	ea	\$15,000.00	\$30,000		
Service elevator, incl. cab finish	1	ea	\$400,000.00	\$400,000		
Total - Stairs and Vertical Transportation				\$1,745,000		
10 Plumbing Systems						
Basement - Parking	40,768	gsf	\$4.00	Parking		
Level 1	30,333		\$21.00	\$636,983		
Level 2	20,851	gsf	\$21.00	\$437,878		
Level 3	20,851	gsf	\$21.00	\$437,878		
Level 4	20,851	gsf	\$21.00	\$437,878		
Roof Enclosures	5,813	gsf	\$14.70	\$85,453		
Total - Plumbing Systems				\$2,036,070		
11 Heating, Ventilation and Air Conditioning						
Basement - Parking	40,768	gsf	\$6.00	Parking		
Level 1	30,333	gsf	\$51.00	\$1,546,958		
Level 2	20,851	gsf	\$51.00	\$1,063,418		
Level 3	20,851	gsf	\$51.00	\$1,063,418		
Level 4	20,851	gsf	\$51.00	\$1,063,418		
Roof Enclosures	5,813	•	\$35.70	\$207,529		
	,	J	•	,		

DETAIL ELEMENTS - CITY HAI	LL OPTION 2			
Element	Quantity	Unit	Unit Cost	Total
Total - Heating, Ventilation and Air Conditioning				\$4,944,74
2 Electrical Lighting, Power and Communications				
Electrical Service & Distribution				
Service & Distribution				
Main Switchboard 4000 amp 277/480v 3ph 4w	1	ea	\$125,742.91	\$125,74
Dist. Panelboard 1200 amp 277/480v 3ph 4w	1	ea	\$26,188.69	\$26,1
Dist. Panelboard 2000 amp 277/480v 3ph 4w	1	ea	\$87,450.00	\$87,4
MCC Panelboard 2000 amp 277/480v 3ph 4w	1	ea	\$62,500.00	\$62,5
Panelboard 225 amp 277/480v 3ph 4w	6	ea	\$3,850.24	\$23,1
Panelboard 225 amp 120/208v 3ph 4w	6	ea	\$3,319.88	\$19,9
Panelboard 100 amp 277/480v 3ph 4w	1	ea	\$3,208.21	\$3,2
Panelboard 100 amp 120/208v 3ph 4w	1	ea	\$2,681.48	\$2,6
Panelboard 60 amp 277/480v 3ph 4w	1	ea	\$2,555.35	\$2,5
Panelboard 60 amp 120/208v 3ph 4w	1	ea	\$2,435.04	\$2,4
Transformer 2500 kva 12.47kv - 480- 120/208v 3ph 4w N3R K-Rated	1	ea	\$61,875.00	\$61,8
Transformer 75 kva 480- 120/208v 3ph 4w K-Rated	5	ea	\$6,038.25	\$30,1
Transformer 30 kva 480- 120/208v 3ph 4w K-Rated	1	ea	\$4,975.00	\$4,9
Transformer 15 kva 480- 120/208v 3ph 4w K-Rated	1	ea	\$3,472.00	\$3,4
Busway - 2000A 480/277v 3ph 4w	245	lf	\$1,850.00	\$453,2
Busway - 200A 277/480v 3ph 4w Transition Tap Box	6	ea	\$2,875.00	\$17,2
Busway 400A supports	14	ea	\$450.00	\$6,3
Busway 400A end closure	1	ea	\$2,280.00	\$2,2
Grounding system	1	ls	\$15,000.00	\$15,0
Conduit and building wire for service equipment				
Feeder, 60 amp	63	lf	\$15.48	\$9
Feeder, 100 amp	189	lf	\$26.29	\$4,9
Feeder, 225 amp	409	lf	\$36.48	\$14,9
Feeder, 400 amp	125	lf	\$96.77	\$12,0
Feeder, 600 amp	125	lf	\$142.89	\$17,8
Feeder, 1000 amp	100	lf	\$250.00	\$25,0
Feeder, 1200 amp (underground)	75	lf	\$298.75	\$22,4
Feeder, 2000 amp	125	lf	\$595.00	\$74,3
Feeder, 4000 amp 21kv (underground) (concrete-encased)	100	lf	\$1,465.27	\$146,5
Conduit supports	1	ls	\$55,000.00	\$55,0
EM Service and Distribution				
Emergency System				
Generator, diesel 550 kW 480/277v 3ph 4w N3R	1	ea	\$651,670.00	\$651,6
Automatic transfer switch, 600/3 by-pass isolation				N
Automatic transfer switch, 100/4 by-pass isolation	1	ea	\$16,654.00	\$16,6
UPS system, 750kVA with by-pass (15 minute battery)	1	ea	\$575,000.00	\$575,0
HVAC Equipment Connections	98,700	gsf	\$0.50	\$49,3
Conduit and building wire for equipment	98,700	gsf	\$1.75	\$172,7
Convenience Power				
Convenience power				
Single receptacle, 20 amp 120v	10	ea	\$137.16	\$1,3
Duploy outlet 20 cmp 120v	665		¢127.16	¢01.2

Duplex outlet, 20 amp 120v

\$91,211

\$137.16

665 ea

DETAIL	ELEMENTS -	CITY HALL	OPTION 2
DEIAIL	ELEMIEN 13	'UIII DALL	

nent	Quantity	Unit	Unit Cost	Total
Duplex outlet, 20 amp 120v gfci	72	ea	\$148.31	\$10,6
Duplex outlet, 20 amp 120v gfci wp (site/ext. bldg.)	9	ea	\$178.25	\$1,6
Duplex outlet, 20 amp 120v gfci wp (elevator)	5	ea	\$178.25	\$8
Duplex outlet, 20 amp 120v gfci wp (roof)	6	ea	\$178.25	\$1,0
Double duplex outlet, 20 amp 120v	950	ea	\$188.74	\$179,3
Specialty receptacles, 30 amp gfci wp (Window washing equip.)	5	ea	\$345.00	\$1,7
Specialty receptacles, 30 amp to 50 amp	44	ea	\$345.00	\$15,1
Floorbox / Poke Thru outlet - double duplex / Tel-Data outlet, 20 amp 120v	50	ea	\$475.00	\$23,7
Junction box, 120V Furniture connection	95	ea	\$275.00	\$26,
Electronic door hold open connection, 120v	9	ea	\$500.00	\$4,
Fire Alarm system connection, 120v	1	ls	\$19,000.00	\$19,0
Fire Fighter / Public Emergency Phone system connection, 120v	1	ls	\$6,300.00	\$6,3
Security system connection, 120v	1	ls	\$11,655.00	\$11,
Conduit and building wire for power				
Feeder, 15 amp - 20 amp	35,709	lf	\$11.50	\$410,
Feeder, 15 amp - 20 amp (underground)	1,108	lf	\$10.95	\$12,
Lighting & Branch Wiring				
Light Fixtures LED, Interior & Exterior (Bldg.)	98,700	gsf	\$11.00	\$1,085,
Lighting Control System	98,700	gsf	\$3.50	\$345,
Conduit and building wire for lighting and lighting control & daylighting syste		ŭ		,
Feeder, 15 amp - 20 amp	65,865	lf	\$11.50	\$757,
Feeder, 15 amp - 20 amp (underground)	10,000	lf	\$10.95	\$109,
Cat 6e lighting control and daylighting system cable	1	ls	\$100,000.00	\$100,
Miscellaneous electrical			,	,
Coordination study and third party services	1	ls	\$75,000.00	\$75,
Testing	1	ls	\$100,000.00	\$100,
Lightning protection system	1	ls	\$250,000.00	\$250,
Cathodic protection system			. ,	. ,
BIM	98,700	gsf	\$2.00	\$197,
Temporary power & lighting	98,700	gsf	\$2.25	\$222,
Communications & Security	,	J	•	. ,
Telephone Data Systems conduit, cable tray ,back boxes, rough	98,700	gsf	\$3.75	\$370,
Access Control	98,700	gsf	\$2.00	\$197,
Security Systems	98,700	gsf	\$2.50	\$246,
Fire alarm Systems	98,700		\$4.50	\$444,
Fire Fighter and Public Emergency Phone Systems	98,700		\$1.25	\$123 <u>,</u>
A/V Systems rough conduit and back boxes	98,700	gsf	\$1.25	\$123,
Sound Masking System	98,700	gsf	\$2.15	\$212,
Other Electrical Systems	,	3	,	
Photovoltaic Power				
PV System @ Roof (Bldg.)				
PV System	30,333	gsf	,	See Summ

Total - Electrical Lighting, Power and Communications

\$8,567,008

40,768	gsf	\$5.00	Parking
30,333	gsf	\$7.00	\$212,328
20,851	gsf	\$7.00	\$145,959
20,851	gsf	\$7.00	\$145,959
20,851	gsf	\$7.00	\$145,959
5,813	gsf	\$4.90	\$28,484
3,198	sf	\$7.00	\$22,386
	30,333 20,851 20,851 20,851 5,813	30,333 gsf 20,851 gsf 20,851 gsf 20,851 gsf 5,813 gsf	30,333 gsf \$7.00 20,851 gsf \$7.00 20,851 gsf \$7.00 20,851 gsf \$7.00 5,813 gsf \$4.90

14 Site Preparation and Demolition

Master Plan Scope of Work

Total - Site Preparation and Demolition

15 Site Paving, Structures & Landscaping

Master Plan Scope of Work

Total - Site Paving, Structures & Landscaping				
16 Utilities on Site				
Utility Connections to Building, <=200LF Runs	1	ls	\$500,000.00	\$500,000
Total - Utilities on Site				\$500,000

Site Development Phase 1 - Option 2

Element

16 Utilities on Site

General Conditions

Bonds & Insurance

Subtotal

Subtotal

Subtotal Contractor's Fee

Subtotal

\$3.53

\$38.82

\$0.71

\$39.52

\$1.98

\$41.50

SUMMARY - SITE DEVELOPMENT PHASE 1 - OPTION 2 Cost / SF Subtotal Total Cost / SF E) Site Construction (14-16) \$14,020,584 \$35.29 14 Site Preparation and Demolition \$1,194,862 \$3.01 15 Site Paving, Structures & Landscaping \$25.64 \$10,185,861 \$2,639,860 \$6.64 \$14,020,584 \$35.29

10.00%

2.00%

5.00%

\$1,402,058

\$15,422,642

\$15,703,054

\$16,488,206

\$280,412

\$785,153

Design Contingency	20.00%	\$3,297,641	\$8.30
TOTAL ESTIMATED CONSTRUCTION COST		\$19,785,848	\$49.80

Total Area: 397,296 SF

DETAIL ELEMENTS - SITE DEVELOPMENT PHASE 1 - OPTION 2				
Element	Quantity	Unit	Unit Cost	Total
14 Site Preparation and Demolition				
Earthwork / Demo				
Clear and grub site	397,296	sf	\$0.50	\$198,648
Cut, allow 6" average over site area	8,000	су	\$10.00	\$80,000
Fill, allow 3" average over site area	4,000	су	\$10.00	\$40,000
Offhaul	4,000	су	\$35.00	\$140,000
Berms and mounding	15,000	су	\$12.00	\$180,000
Tree protection	397,296	sf	\$0.25	\$99,324
Miscellaneous rough grading, allowance	397,296	sf	\$0.35	\$139,054
Fine grading	397,296	sf	\$0.50	\$198,648
Erosion control	397,296	sf	\$0.30	\$119,189
Total - Site Preparation and Demolition				\$1,194,862
15 Site Paving, Structures & Landscaping				
Hardscape / Paving				
Granite pavers at Plaza	60,503	sf	\$60.00	\$3,630,180
Precast concrete pavers, custom	,			Not Required
AC Paving			7.0000	
Parking lot				Excluded
Driveway / access road - overlay only	17,785	sf	\$2.00	\$35,570
Curbs and gutters to above	17,785	sf	\$1.00	\$17,785
Pedestrian walkways, assume 7'-0" wide	5,702	lf	\$140.00	\$798,280
Amphitheatre, allow	0,102		Ψ110.00	Ψ. σσ,2σσ
Granite benches	182	lf	\$400.00	\$72,800
Granite paving	2,873	sf	\$60.00	\$172,380
Landscaping	2,010	O.	·	Landscaping
Miscellaneous furniture, lighting, power, etc.	8,616	sf	\$5.00	\$43,080
Site Structures, Seat Walls, Etc., Allow	0,010	01	ψ0.00	Ψ-10,000
Granite benches, circular, 6'-0" diameter	65	ea	\$9,000.00	\$585,000
Miscellaneous, allow	397,296	gsf	\$0.30	\$119,189
Bike Racks, allow	50	•	\$1,200.00	\$60,000
,	1	ea	\$20,000.00	\$20,000
Secure bicycle parking, covered, incl. fence, gate and bike racks, allow Secure Entrance, Barriers, Badged w / Intercom	ı	ea		
Entry / Exit, allow				Not Required
Entry Only, allow				Not Required
Control station, allow			Assume	Not Required
Signage & Wayfinding				
Parking lot direction signage, paint				Excluded
Driveway / access road directional signage				Included
Parking stalls				Excluded
Metal embedded signage, at pedestrian surfaces, allow	2	ea	\$15,000.00	\$30,000
Building exterior signage, allow	1	ls	\$50,000.00	\$50,000
Landscaping and Irrigation				
"Light touch", typical	78,846	sf	\$5.00	\$394,230
Lawn area	57,377	sf	\$25.00	\$1,434,425
Upgraded landscaped areas	139,998	sf	\$15.00	\$2,099,970
10	,		·	
Large trees, including tree grates	37	ea	\$2,000.00	\$74,000

lement	Quantity	Unit	Unit Cost	Total
Bio-Retention Areas, Plaza Only, allow 10%	6,050	gsf	\$75.00	\$453,773
Total - Site Paving, Structures & Landscaping				\$10,185,861
6 Utilities on Site Utilities				
Miscellaneous site utilities	397,296	sf	\$1.50	\$595,944
Site utility connections to bldgs.	331,233	٠.	Ψσσ	With Buildings
Central Plant and Fire Water Loops				Excluded
Realign Street Utilities				
Demo existing	1	ls	\$200,000.00	\$200,00
New piping	1	ls	\$450,000.00	\$450,000
Pump station, allowance	1	ls	\$500,000.00	\$500,000
Storm Drainage	397,296	sf	\$1.00	\$397,296
Site Lighting	397,296	sf	\$1.25	\$496,620

APPENDIX 1 - APPROACH & METHODOLOGY				
Basis of Estimate	2017-1009 City Hall Cost Package_UPDATED 1016 2017-1012 Illustrative Master Plans 2017-10-19_14101_Option 1 2017-10-19_14101_Option 2			
Estimate Format	A elemental classification format has been used for the preparation of this estimate. It classifies costs by building system / element.			
Cost Mark Ups	The following % mark ups have been included in each design option: - General Conditions (10.00% on direct costs) - Bonds & Insurance (2.00% on direct costs) - Contractor's Fee (5.00% compound) - Design Contingency (20.00% compound)			
Escalation	All subcontract prices herein are reflective of current bid prices. Escalation has been included on the summary level to the stated mid point of construction.			
Design Contingency	An allowance of 20.00% for undeveloped design details has been included in this estimate. As the design of each system is further developed, details which historically increase cost become apparent and must be incorporated into the estimate while decreasing the % burden.			
Construction Contingency	It is prudent for all program budgets to include an allowance for change orders which occur during the construction phase. These change orders normally increase the cost of the project. It is recommended that a 5 - 10% construction contingency is carried in this respect. This cost is not included within the estimate.			
Construction Schedule	TBD			
Bid Conditions	This estimate has been based upon competitive bid situations (minimum of 3 bidders) for all items of subcontracted work.			
Basis For Quantities	Wherever possible, this estimate has been based upon the actual measurement of different items of work. For the remaining items, parametric measurements were used in conjunction with other projects of a similar nature.			
Basis for Unit Costs	Unit costs as contained herein are based on current bid prices in Sunnyvale, CA. Sub overheads and profit are included in each line item unit cost. Their overhead and profit covers each sub's cost for labor burden, materials, and equipment, sales taxes, field overhead, home office overhead, and profit. The general contractor's overhead is shown separately on the master summary.			
Sources for Pricing	This estimate was prepared by a team of qualified cost consultants experienced in estimating construction costs at all stages of design. These consultants have used pricing data from Cumming's database for education and office construction, updated to reflect current conditions in Sunnyvale, CA.			

APPENDIX 1 - APPROACH & METHODOLOGY

Key Exclusions

The following items have been excluded from our estimate:

- Escalation
- Dual layer cladding
- Temporary alternate space
- Audio-visual equipment
- Testing and inspection fees
- Furnishing, equipment, and associated special construction unless noted in estimate
- Owner-furnished items
- Estimate currently anticipates work will be carried out within unoccupied areas, on a two floor at a time basis.
- Work outside of regular working hours

Items Affecting Cost Estimate

Items which may change the estimated construction cost include, but are not limited to:

- Modifications to the scope of work included in this estimate.
- Unforeseen sub-surface conditions.
- Restrictive technical specifications or excessive contract conditions.
- Any specified item of material or product that cannot be obtained from 3 sources.
- Any other non-competitive bid situations.
- Bids delayed beyond the projected schedule.

Statement of Probable Cost

Cumming has no control over the cost of labor and materials, the general contractor's or any subcontractor's method of determining prices, or competitive bidding and market conditions. This estimate is made on the basis of the experience, qualifications, and best judgement of a professional consultant familiar with the construction industry. Cumming, however, cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from this or subsequent cost estimates.

Cumming's staff of professional cost consultants has prepared this estimate in accordance with generally accepted principles and practices. This staff is available to discuss its contents with any interested party.

Pricing reflects probable construction costs obtainable in the project locality on the target dates specified and is a determination of fair market value for the construction of this project. The estimate is not a prediction of low bid. Pricing assumes competitive bidding for every portion of the construction work for all sub and general contractors with a range of 3 - 4 bidders for all items of work. Experience and research indicates that a fewer number of bidders may result in higher bids. Conversely, an increased number of bidders may result in more competitive bid day responses.

Recommendations

Cumming recommends that the Owner and the Architect carefully review this entire document to ensure it reflects their design intent. Requests for modifications of any apparent errors or omissions to this document must be made to Cumming within ten days of receipt of this estimate. Otherwise, it will be assumed that its contents have been reviewed and accepted. If the project is over budget or there are unresolved budget issues, alternate systems / schemes should be evaluated before proceeding into further design phases.

It is recommended that there are preparations of further cost estimates throughout design by Cumming to determine overall cost changes since the preparation of this preliminary estimate. These future estimates will have detailed breakdowns indicating materials by type, kind, and size, priced by their respective units of measure.