



100% Schematic Design Estimate

Somerville Public Safety Building
90 Washington St,

Somerville, MA 02143

PM&C LLC
20 Downer Ave, Suite 5
Hingham, MA 02043
(T) 781-740-8007
(F) 781-740-1012

Prepared for:

Colliers Project Leaders

September 8, 2021



Somerville Public Safety Building
 90 Washington St,
 Somerville, MA 02143

8-Sep-21

100% Schematic Design Estimate

MAIN CONSTRUCTION COST SUMMARY

	Bid Date	Gross Floor Area ¹	\$/sf	Estimated Construction Cost
NEW CONSTRUCTION				
	May-22			
PUBLIC SAFETY BUILDING		79,120	\$407.05	\$32,205,440
PARKING GARAGE		55,953	\$132.63	\$7,421,084
SITework				\$2,690,274
SUB-TOTAL		79,120	\$534.84	\$42,316,798
DESIGN AND PRICING CONTINGENCY	10.0%			\$4,231,680
ESCALATION	3.38%			\$1,430,308
SUB-TOTAL				\$47,978,786
GENERAL CONDITIONS / REQUIREMENTS	8.00%			\$3,838,303
BONDS	1.00%			\$479,788
INSURANCE	1.75%			\$839,629
PERMIT				Waived
SUB-TOTAL				\$53,136,506
OVERHEAD AND FEE	3.50%			\$1,859,778
TOTAL OF ALL CONSTRUCTION		79,120	\$695.10	\$54,996,284

¹ GFA Does not include the Parking Garage



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Alternates & Options not part of Contract

Photovoltaics	ADD	\$1,722,500
Option 1: High Efficiency VAV System	ADD	\$288,265
Option 2: Air Source VRF System (Includes Electric feed and connections)	ADD	\$802,545
Option 3: Chilled Beam with Electric Heating (Includes Electric feed and connections)	ADD	\$1,522,537
Option 4: Ground Source VRF System	ADD	\$2,448,241
Option 5: Ground Source Chilled Beam System	ADD	\$3,168,233

This 100% Schematic Submission Document Set estimate was produced from drawings and narratives produced by Context Architecture and their design team dated August 17th, 2021. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- All professional fees and insurance
- Land acquisition, feasibility, and financing costs
- All Furnishings, Fixtures and Equipment U.N.O
- Dispatch Equipment
- Communications Tower
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
- Rock excavation; special foundations (unless indicated by design engineers)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)



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GSF 135,073

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CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

BUILDING + GARAGE SUMMARY

DIV. 2 EXISTING CONDITIONS

024120 Demolition - Bulk		See Summary	
028200 HazMat Remediation		See Summary	

DIV. 3 CONCRETE

033000 Cast-in-Place Concrete	\$2,145,804	\$2,145,804	\$15.89
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DIV. 4 MASONRY

040001 Masonry	\$2,961,499	\$2,961,499	\$21.93
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DIV. 5 METALS

051000 Structural Steel / Metal Decking	\$6,389,239	\$7,544,857	\$47.30
055000 Metal Fabrications	\$1,155,618		\$8.56

DIV. 6 WOODS & PLASTICS

061000 Rough Carpentry	\$346,715	\$881,065	\$2.57
064020 Interior Architectural Woodwork	\$534,350		\$3.96

DIV. 7 THERMAL & MOISTURE PROTECTION

070001 Waterproofing, Dampproofing & Caulking	\$658,777	\$4,111,043	\$4.88
070002 Roofing and Flashing	\$599,642		\$4.44
072100 Building Insulation	\$300,810		\$2.23
074600 Siding	\$2,370,793		\$17.55
076400 Metal Panels	\$155,646		\$1.15
078100 Fireproofing & Firestopping	\$25,375		\$0.19

DIV. 8 DOORS & WINDOWS

080001 Windows	\$3,358,255	\$4,237,400	\$24.86
080002 Glass and Glazing	\$252,620		\$1.87
081110 Doors and Frames	\$433,575		\$3.21
083000 Access Doors	\$4,000		\$0.03
083300 Coiling Doors	\$22,800		\$0.55
083463 Detention Doors	\$73,750		\$0.55
83613 Sectional Overhead Doors	\$92,400		\$0.68

DIV. 9 FINISHES

\$4,350,083



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BUILDING + GARAGE SUMMARY

090002	Tile	\$608,718	\$4.51
090005	Resilient Floors	\$274,591	\$2.03
090007	Painting	\$489,953	\$3.63
092900	Gypsum Wallboard	\$2,167,180	\$16.04
095100	Acoustical Tile	\$350,215	\$2.59
096566	Synthetic Athletic Flooring	\$66,942	\$0.50
096723	Resinous Flooring	\$115,248	\$0.85
096820	Carpeting	\$66,700	\$0.49
096900	Access Flooring	\$19,570	\$0.14
097000	Wall Finishes	\$92,000	\$0.68
098400	Acoustic Wall Panels	\$45,000	\$0.33
099699	Water Vapor Emission Control	\$53,966	\$0.40

DIV 10 SPECIALTIES

\$1,201,570

101100	Visual Display Surfaces	\$35,000	\$0.26
101400	Signage	\$58,120	\$0.43
102100	Toilet Compartments and Cubicles	\$19,100	\$0.14
102600	Partitions	\$12,500	\$0.09
102800	Toilet Accessories	\$33,900	\$0.25
104400	Fire Protection Specialties	\$11,100	\$0.08
105000	Storage	\$1,006,850	\$7.45
108213	Roof Screens	\$25,000	\$0.19

DIV. 11 EQUIPMENT

\$70,300

111200	Parking Eq	\$10,000	\$0.07
111920	Appliances	\$32,300	\$0.24
115000	Lab Eq	\$25,000	\$0.19
119816	Gun Lockers	\$3,000	\$0.02

DIV. 12 FURNISHINGS

\$23,380

122410	Window Treatments	\$12,380	\$0.09
124810	Entrance Mats and Frames	\$11,000	\$0.08

DIV. 13 SPECIAL CONSTRUCTION

DIV. 14 CONVEYING SYSTEMS

\$560,000

142400	Elevators	\$560,000	\$4.15
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Cost/SF

BUILDING + GARAGE SUMMARY

DIV. 21 FIRE SUPPRESSION

\$546,190

210000 Fire Protection

\$546,190

\$4.04

DIV. 22 PLUMBING

\$1,317,785

220000 Plumbing

\$1,317,785

\$9.76

DIV. 23 HVAC

\$3,813,378

230000 HVAC

\$3,813,378

\$28.23

DIV. 26 ELECTRICAL

\$4,046,508

260000 Electrical

\$4,046,508

\$29.96

DIV. 31 EARTHWORK

\$1,815,662

312000 Earthwork

\$1,815,662

\$13.44

SUBTOTAL DIRECT (TRADE) COST

\$39,626,524

\$293.37



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CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

		MAIN BUILDING		PARKING GARAGE		TOTAL	
		79,120 sf		55,953 sf		135,073 sf	
DIV. 2 EXISTING CONDITIONS							
024120	Demolition - Bulk		See Summary		See Summary		See Summary
028200	HazMat Remediation		See Summary		See Summary		See Summary
DIV. 3 CONCRETE			\$1,244,102		\$901,702		\$2,145,804
033000	Cast-in-Place Concrete	\$1,244,102	\$15.72	\$901,702	\$16.12	\$2,145,804	\$15.89
DIV. 4 MASONRY			\$2,099,151		\$862,348		\$2,961,499
040001	Masonry	\$2,099,151	\$26.53	\$862,348	\$15.41	\$2,961,499	\$21.93
DIV. 5 METALS			\$4,775,727		\$2,769,130		\$7,544,857
051000	Structural Steel / Metal Decking	\$3,753,722	\$47.44	\$2,635,517	\$47.10	\$6,389,239	\$47.30
055000	Metal Fabrications	\$1,022,005	\$12.92	\$133,613	\$2.39	\$1,155,618	\$8.56
DIV. 6 WOODS & PLASTICS			\$801,874		\$79,191		\$881,065
061000	Rough Carpentry	\$267,524	\$3.38	\$79,191	\$1.42	\$346,715	\$2.57
064020	Interior Architectural Woodwork	\$534,350	\$6.75			\$534,350	\$3.96
DIV. 7 THERMAL & MOISTURE PROTECTION			\$2,894,641		\$1,216,402		\$4,111,043
070001	Waterproofing, Dampproofing & Caulking	\$401,064	\$5.07	\$257,713	\$4.61	\$658,777	\$4.88
070002	Roofing and Flashing	\$590,734	\$7.47	\$8,908	\$0.16	\$599,642	\$4.44
072100	Building Insulation	\$212,862	\$2.69	\$87,948	\$1.57	\$300,810	\$2.23
074600	Siding	\$1,514,555	\$19.14	\$856,238	\$15.30	\$2,370,793	\$17.55
076400	Metal Panels	\$155,646	\$1.97			\$155,646	\$1.15
078100	Fireproofing & Firestopping	\$19,780	\$0.25	\$5,595	\$0.10	\$25,375	\$0.19
DIV. 8 DOORS & WINDOWS			\$4,191,075		\$46,325		\$4,237,400
080001	Windows	\$3,358,255	\$42.45			\$3,358,255	\$24.86
080002	Glass and Glazing	\$252,620	\$3.19			\$252,620	\$1.87
081110	Doors and Frames	\$410,050	\$5.18	\$23,525	\$0.42	\$433,575	\$3.21
083000	Access Doors	\$4,000	\$0.05			\$4,000	#REF!
083300	Coiling Doors			\$22,800	\$0.41	\$22,800	\$0.55
083463	Detention Doors	\$73,750	\$0.93			\$73,750	\$0.55
83613	Sectional Overhead Doors	\$92,400	\$1.17			\$92,400	\$0.68
DIV. 9 FINISHES			\$4,202,504		\$147,579		\$4,350,083
090002	Tile	\$608,718	\$7.69			\$608,718	\$4.51
090005	Resilient Floors	\$267,591	\$3.38	\$7,000	\$0.13	\$274,591	\$2.03
090007	Painting	\$363,874	\$4.60	\$126,079	\$2.25	\$489,953	\$3.63
092900	Gypsum Wallboard	\$2,160,180	\$27.30	\$7,000	\$0.13	\$2,167,180	\$16.04
095100	Acoustical Tile	\$350,215	\$4.43			\$350,215	\$2.59
096566	Synthetic Athletic Flooring	\$66,942	\$0.85			\$66,942	\$0.49
096723	Resinous Flooring	\$115,248	\$1.46			\$115,248	\$0.85
096820	Carpeting	\$66,700	\$0.84			\$66,700	\$0.49
096900	Access Flooring	\$19,570	\$0.25			\$19,570	\$0.14
097000	Wall Finishes	\$84,500	\$1.07	\$7,500	\$0.13	\$92,000	\$0.68
098400	Acoustic Wall Panels	\$45,000	\$0.57			\$45,000	\$0.33
099699	Water Vapor Emission Control	\$53,966	\$0.68			\$53,966	\$0.40
DIV 10 SPECIALTIES			\$1,201,570				\$1,201,570
101100	Visual Display Surfaces	\$35,000	\$0.44			\$35,000	\$0.26
101400	Signage	\$58,120	\$0.73			\$58,120	\$0.43
102100	Toilet Compartments and Cubicles	\$19,100	\$0.24			\$19,100	\$0.14



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CONSTRUCTION COST SUMMARY IN CSI FORMAT

Cost/SF

	MAIN BUILDING	79,120 sf	PARKING GARAGE	55,953 sf	TOTAL	135,073 sf
102600 Partitions	\$12,500	\$0.16			\$12,500	\$0.09
102800 Toilet Accessories	\$33,900	\$0.43			\$33,900	\$0.25
104400 Fire Protection Specialties	\$11,100	\$0.14			\$11,100	\$0.08
105000 Storage	\$1,006,850	\$12.73			\$1,006,850	\$7.45
108213 Roof Screens	\$25,000	\$0.32			\$25,000	\$0.19
DIV. 11 EQUIPMENT		\$60,300		\$10,000		\$70,300
111200 Parking Eq			\$10,000	\$0.18	\$10,000	\$0.07
111920 Appliances	\$32,300	\$0.41			\$32,300	\$0.24
115000 Lab Eq	\$25,000	\$0.32			\$25,000	\$0.19
119816 Gun Lockers	\$3,000	\$0.04			\$3,000	\$0.02
DIV. 12 FURNISHINGS		\$23,380				\$23,380
122410 Window Treatments	\$12,380	\$0.16			\$12,380	\$0.09
124810 Entrance Mats and Frames	\$11,000	\$0.14			\$11,000	\$0.08
DIV. 13 SPECIAL CONSTRUCTION						
DIV. 14 CONVEYING SYSTEMS		\$560,000				\$560,000
142400 Elevators	\$560,000	\$7.08			\$560,000	\$4.15
DIV. 21 FIRE SUPPRESSION		\$471,440		\$74,750		\$546,190
210000 Fire Protection	\$471,440	\$5.96	\$74,750	\$1.34	\$546,190	\$4.04
DIV. 22 PLUMBING		\$1,106,285		\$211,500		\$1,317,785
220000 Plumbing	\$1,106,285	\$13.98	\$211,500	\$3.78	\$1,317,785	\$9.76
DIV. 23 HVAC		\$3,813,378				\$3,813,378
230000 HVAC	\$3,813,378	\$48.20			\$3,813,378	\$28.23
DIV. 26 ELECTRICAL		\$3,738,766		\$307,742		\$4,046,508
260000 Electrical	\$3,738,766	\$47.25	\$307,742	\$5.50	\$4,046,508	\$29.96
DIV. 31 EARTHWORK		\$1,021,247		\$794,415		\$1,815,662
312000 Earthwork	\$1,021,247	\$12.91	\$794,415	\$14.20	\$1,815,662	\$13.44
SUBTOTAL DIRECT (TRADE) COST	\$32,205,440	\$407.05	\$7,421,084	\$132.63	\$39,626,524	\$293.37



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

GROSS FLOOR AREA CALCULATION

1							
2							
3	First Floor				21,866	19,900	
4	Mezzanine Floor				6,145		
5	Second Floor				22,578	19,900	
6	Third Floor				15,712		
7	Fourth Floor				12,819	16,153	
8							
9	TOTAL GROSS FLOOR AREA (GFA) PER ARCHITECT				79,120	55,953	135,073 SF
10							
11							

03 - CONCRETE

MAIN BUILDING

15	Strip Footings	66	CY				
16	Basement Walls	159	CY				
17	Spread Footings	132	CY				
18	Trench Footing - Interior CMU Walls	151	CY				
19	Piers	10	CY				
20	Total Foundation Concrete	518	CY				
21							
22	<u>Strip footings</u>						
23	Formwork	1,366	sf	15.00		20,490	
24	Re-bar	4,290	lbs.	2.00		8,580	
25	Concrete material; 4,000 psi	66	cy	140.00		9,240	
26	Placing concrete	66	cy	90.00		5,940	
27	<u>Foundation walls</u>						
28	Formwork	5,464	sf	20.00		109,280	
29	Re-bar	12,720	lbs.	2.00		25,440	
30	Concrete material; 4,000 psi	159	cy	140.00		22,260	
31	Placing concrete	159	cy	120.00		19,080	
32	Form shelf	683	lf	10.00		6,830	
33	<u>Spread Footings</u>						
34	Formwork	2,268	sf	16.00		36,288	
35	Re-bar	10,560	lbs.	2.00		21,120	
36	Concrete material; 4,000 psi	132	cy	140.00		18,480	
37	Placing concrete	132	cy	150.00		19,800	
38	Set anchor bolts grout plates	63	ea	165.00		10,395	
39	<u>Trench Footing - Interior CMU Walls</u>						
40	Formwork	2,586	sf	15.00		38,790	
41	Re-bar	9,815	lbs.	2.00		19,630	
42	Concrete material; 4,000 psi	151	cy	140.00		21,140	
43	Placing concrete	151	cy	120.00		18,120	
44	<u>Piers</u>						
45	Formwork	1,008	sf	22.00		22,176	
46	Re-bar	1,250	lbs.	2.00		2,500	
47	Concrete material; 4,000 psi	10	cy	140.00		1,400	
48	Placing concrete	10	cy	150.00		1,500	
49	Set anchor bolts & grout plates	63	ea	250.00		15,750	
50	<u>Slab on grade, 6" thick</u>						
51	Vapor barrier, heavy duty, 15 mil	21,866	sf	1.10		24,053	
52	WWF reinforcement	25,146	sf	1.50		37,719	
53	Concrete - 6" thick; 3,000 psi	425	cy	128.00		54,400	
54	Placing concrete	425	cy	100.00		42,500	
55	Finishing and curing concrete	21,866	sf	3.00		65,598	
56							
57	<u>Miscellaneous</u>						
58	Elevator pit	1	ea	25,000.00		25,000	
59	Moisture mitigation additive	518	cy		Assumed Not Required		
60	Equipment pads	1	ls	7,500.00		7,500	



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
61	Concrete to stairs	13	flt	2,500.00		32,500	
62							
63	<u>Topping Slabs (Floor)</u>	57,254	sf				
64	Rebar				Assumed Not Required		
65	WWF Reinforcement	65,842	sf	1.50	98,763		
66	Light weight concrete 3,000psi;5-1/4" total thickness	789	cy	175.00	138,075		
67	Place and finish concrete	57,254	sf	3.70	211,840		
68	<u>Topping Slabs - Roof</u>	4,000	sf				
69	Rebar				Assumed Not Required		
70	WWF Reinforcement	5,000	sf	1.50	7,500		
71	Light weight concrete 3,000psi;5-1/4" total thickness	55	cy	175.00	9,625		
72	Place and finish concrete	4,000	sf	3.70	14,800		
73							
74							
75							
76	<u>GARAGE</u>						
77	Strip Footings	120	CY				
78	Basement Walls	64	CY				
79	Spread Footings	80	CY				
80	Trench Footing - Interior CMU Walls	47	CY				
81	Piers	6	CY				
82							
	Total Foundation Concrete	317	CY				
83	<u>Strip footings</u>						
84	Formwork	1,230	sf	15.00	18,450		
85	Re-bar	7,800	lbs.	2.00	15,600		
86	Concrete material; 4,000 psi	120	cy	140.00	16,800		
87	Placing concrete	120	cy	90.00	10,800		
88	<u>Foundation walls</u>						
89	Formwork	3,280	sf	20.00	65,600		
90	Re-bar	5,120	lbs.	2.00	10,240		
91	Concrete material; 4,000 psi	64	cy	140.00	8,960		
92	Placing concrete	64	cy	120.00	7,680		
93	Form shelf	410	lf	10.00	4,100		
94	<u>Spread Footings</u>						
95	Formwork	1,368	sf	16.00	21,888		
96	Re-bar	6,400	lbs.	2.00	12,800		
97	Concrete material; 4,000 psi	80	cy	140.00	11,200		
98	Placing concrete	80	cy	150.00	12,000		
99	Set anchor bolts grout plates	38	ea	165.00	6,270		
100	<u>Trench Footing - Interior CMU Walls</u>						
101	Formwork	800	sf	15.00	12,000		
102	Re-bar	3,055	lbs.	2.00	6,110		
103	Concrete material; 4,000 psi	47	cy	140.00	6,580		
104	Placing concrete	47	cy	120.00	5,640		
105	<u>Piers</u>						
106	Formwork	608	sf	22.00	13,376		
107	Re-bar	750	lbs.	2.00	1,500		
108	Concrete material; 5,000 psi	6	cy	140.00	840		
109	Placing concrete	6	cy	150.00	900		
110	Set anchor bolts & grout plates	38	ea	250.00	9,500		
111							
112	<u>Slab on grade, 6" thick</u>	19,900	sf				
113	Vapor barrier, heavy duty, 15 mil	19,900	sf	1.10	21,890		
114	WWF reinforcement	22,885	sf	1.50	34,328		
115	Rebar, #5 EW O.C	41,790	lbs	2.00	83,580		
116	Concrete - 6" thick; 4,000 psi	387	cy	140.00	54,180		
117	Placing concrete	387	cy	100.00	38,700		
118	Finishing and curing concrete	19,900	sf	3.00	59,700		
119							
120	<u>Miscellaneous</u>						



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
121	Moisture mitigation additive	317	cy		Assumed Not Required		
122	Equipment pads	1	ls	5,000.00		5,000	
123	Concrete to stairs	2	flt	2,500.00		5,000	
124							
125	<u>Topping Slabs</u>	36,053	sf				
126	Rebar				Assumed Not Required		
127	WWF Reinforcement	41,461	sf	1.50		62,192	
128	NW concrete 5,000psi; 6-1/2" total thickness	643	cy	155.00		99,665	
129	Place and finish concrete	36,053	sf	4.40		158,633	
130	SUBTOTAL						2,145,804

TOTAL - CONCRETE	\$2,145,804
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04 - MASONRY

MAIN BUILDING

Exterior Walls

138	Cast Stone Base	1,437	sf	55.00		79,035	
139	Cast Stone Masonry Veneer Panels	6,414	sf	55.00		352,770	
140	Brick/Cast Stone @ Garage Party Wall	4,126	sf	55.00		226,930	
141	Cast Stone Cap	365	lf	35.00		12,775	
142	Cast Stone Vertical Band	445	lf	75.00		33,375	
143	Cast Stone base below grade, 8"	685	lf	36.69		25,133	
144	Premium for 2nd Level cast stone detail above Apparatus Bay main entrance	90	lf	30.00		2,700	
145	Cast stone roof cornice above Apparatus Bay main entrance, per detail 1/A4.3	90	lf	520.00		46,800	
146	Jambs of Overhead door at Entrance to Apparatus Bay.	110	lf	95.00		10,450	
147	Air/vapor barrier	10,540	sf	7.50	See Div 07		
148	Rainscreen fiberglass attachment system	10,540	sf	5.00		52,700	
149	Z Clips	10,540	sf	3.00		31,620	
150	Stepped S.S Flashing at base	685	lf	25.00		17,125	
151	Per detail 1/A4.3; Additional wall at exterior closure at Apparatus bay	2,160	sf	24.00		51,840	

Mockups

152	Façade mock-up allowance	1	ls	25,000.00		25,000	
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Interior Partitions

153	Wall Type E3: 8" CMU	29,670	sf	26.00		771,420	
154	Wall Type E5: 12" CMU	2,210	sf	30.00		66,300	
155	Garage: CMU Wall 6"	2,016	sf	24.00		48,384	
156	Garage: CMU Wall 8"	2,758	sf	26.00		71,708	

GARAGE

Note: Parking garage exterior façade is per the elevation drawings, which do not include ventilation openings. Scope to be reviewed and confirmed at Recon.

Exterior Skin

157	Cast Stone Base	1,665	sf	55.00		91,575	
158	Cast Stone Masonry Veneer Panels	4,617	sf	55.00		253,935	
159	Weather barrier	6,282	sf	7.50		47,115	
160	Rainscreen fiberglass attachment system	6,282	sf	5.00		31,410	
161	Z Clips	6,282	sf	3.00		18,846	
162	Exposed CMU - Assumed	14,398	sf	26.00		374,348	
163	<u>Misc. Details</u>						
164	Jambs of Overhead door at Entrance to Apparatus Bay.	78	lf	95.00		7,410	
165	Cast Stone Cap	390	lf	35.00		13,650	
166	Cast Stone base below grade, 8"	390	lf	36.69		14,309	
167	Stepped S.S Flashing	390	lf	25.00		9,750	



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

176	<u>Interior Partitions</u>							
177	Garage: CMU Wall 6"	2,282	sf	21.00	47,922			
178	Garage: CMU Wall 8"	4,154	sf	26.00	108,004			
179	CMU Wall 8" knee wall	660	sf	26.00	17,160			
180	SUBTOTAL					2,961,499		
181								
182	TOTAL - MASONRY						\$2,961,499	
183								
184								
185	05 - METALS							
186								
187	051000 STRUCTURAL STEEL							
188								
189	MAIN BUILDING	602	tns					
190	<u>Floor/Roof Structure</u>	15.0	lbs/sf					
191	W-sections beams	602	tns	5,500.00	3,311,000			
192	Premium for HSS steel beams & columns	50	tns	500.00	25,000			
193	Relieving angles/supports - L -angles, C-channels, stiff plates, connections, additional structure					Assume incl Above		
194	Shear studs	11,451	ea	5.00	57,255			
195	Moment connections	60	ea	500.00	30,000			
196	Floor; 2" Steel Deck	57,254	sf	4.00	229,016			
197	Roof; 3" Gal. Steel Deck	23,057	sf	4.40	101,451			
198								
199	GARAGE	270	tns					
200	<u>Floor/Roof Structure</u>	15.0	lbs/sf					
201	W-sections beams	270	tns	5,500.00	1,485,000			
202	Premium for HSS steel beams & columns	50	tns	500.00	25,000			
203	Premium for AESS Steel	270	tns	1,250.00	337,500			
204	Premium for Galv. Steel	270	tns	400.00	108,000			
205	Relieving angles/supports - L -angles, C-channels, stiff plates, connections, additional structure					Assume incl Above		
206	Shear studs	7,211	ea	5.00	36,055			
207	Moment connections	20	ea	500.00	10,000			
208	Floor; 2" Steel Deck (incl top deck)	36,053	sf	4.00	144,212			
209								
210	<u>Canopy Framing</u>	8	lbs/sf					
211	Assume 8lbs per SF							
212	W-sections beams	65	tns	5,500.00	357,500			
213	Premium for HSS steel beams & columns	50	tns	500.00	25,000			
214	Premium for AESS Steel	65	tns	1,250.00	81,250			
215	Premium for Galv. Steel	65	tns	400.00	26,000			
216	Steel Deck	16,153	sf			Not Required		
217	SUBTOTAL						6,389,239	
218								
219	054000 COLD-FORMED METAL FRAMING							
220	CFMF at exterior closure					w/ drywall		
221	SUBTOTAL						-	
222								
223	055000 METAL FABRICATIONS							
224	MAIN BUILDING							
225	<u>Misc. Metals</u>							
226	<u>Booking</u>							
227	S.S Countertop; Detail 9/A9.7	17	lf	950.00	16,150			
228	Cell Bench, Detail 5/A9.7	26	lf	400.00	10,400			
229	<u>Fire Pole System</u>							



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING + PARKING GARAGE								
230	Firehouse sliding pole, landing mat, security gate, and fire rated closure	1	ea	80,000.00	80,000			
231	<u>Miscellaneous</u>							
232	Cell chase, painted steel	8	ea	600.00	4,800			
233	Detention rail	17	lf	75.00	1,275			
234	Misc. metals to CMU & Seismic clips	34,040	sf	1.50	51,060			
235	Mezz open to below guard rail at storage	180	lf	250.00	45,000			
236	Lobby open to below guardrail	65	lf	450.00	29,250			
237	S.S Interior column cover, 24ht (interior)	1	ea	6,000.00	6,000			
238	Stainless steel splash guards (Jan Clo/ Decon Lockers & Station ware Wash/ SFD Washer Dryer)	500	sf	35.00	17,500			
239	Miscellaneous metals throughout building	79,120	gsf	2.00	158,240			
240	<u>Roof</u>							
241	Roof access hatch				Assume Not Required			
242	Roof access ladder, 18'	1	ea	2,800.00	2,800			
243	Roof terrace guardrail	105	lf	450.00	47,250			
244	<u>Exterior</u>							
245	Misc. metals at Sectional doors	70	lf	150.00	10,500			
246	Bollards at OHD's	6	ea	750.00	4,500			
247	Decorative S.S column covers, 24ft tall	1	ea	6,000.00	6,000			
248	Miscellaneous metals; lintels, flashings etc.	45,080	sf	2.00	90,160			
249	<u>Elevators</u>							
250	Pit ladder	2	ea	2,500.00	5,000			
251	Sill angle	32	lf	35.00	1,120			
252	<u>Stairs</u>							
253	Stairs A: Metal pan egress stairs	4	flt	30,000.00	120,000			
254	Stairs B: Metal pan egress stairs	4	flt	30,000.00	120,000			
255	Stairs C: Metal pan egress stairs	4	flt	30,000.00	120,000			
256	Feature Stairs at Entrance Lobby, incl railings	1	ea	60,000.00	60,000			
257	Apparatus Bay Mezz Stairs	1	flt	15,000.00	15,000			
258								
259	GARAGE							
260	Bollards at OHD's - assumed	4	ea	900.00	3,600			
261	Misc. metals to CMU & Seismic clips	7,096	sf	1.50	10,644			
262	Miscellaneous lintels, metals & flashings	14,398	sf	1.00	14,398			
263	Misc. metals at Sectional doors	28	lf	150.00	4,200			
264	Miscellaneous metals throughout building	55,953	gsf	0.60	33,572			
265	Miscellaneous sealants	14,398	sf	0.50	7,199			
266	<u>Stairs</u>							
267	Stairs D: Metal pan egress stairs	2	flt	30,000.00	60,000			
268	SUBTOTAL					1,155,618		
269								
270	TOTAL - METALS						\$7,544,857	
271								
272								
273	06 - WOOD, PLASTICS AND COMPOSITES							
274								
275	061000 ROUGH CARPENTRY							
276								
277	Exterior Doors; Wood blocking at openings	176	lf	4.00	704			
278	Wood blocking at exterior openings	3,300	lf	6.00	19,800			
279	Plywood exterior sheathing, 1/2"	23,303	sf	4.00	93,212			
280	Rough blocking/plywood at metal coping	924	lf	5.00	4,620			
281	Rough blocking at roof covering	1,383	lf	8.00	11,064			
282	Rough blocking at partitions	13,950	lf	4.00	55,800			
283	Wood blocking at interior openings	4,702	lf	4.00	18,808			



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
284	Plywood Security liner/Backer panels	5,000	sf	4.00	20,000		
285	Miscellaneous wood blocking at interiors	79,120	gsf	0.55	43,516		
286							
287	<u>GARAGE</u>						
288	Plywood sheathing, 1/2"	14,398	sf	5.00	71,990		
289	Wood blocking at exterior door openings	116	lf	6.00	696		
290	Rough blocking at roof covering	70	lf	8.00	560		
291	Rough blocking/plywood at metal coping	70	lf	5.00	350		
292	Miscellaneous wood blocking at interiors	55,953	gsf	0.10	5,595		
293	SUBTOTAL						346,715
294							
295	064020 ARCHITECTURAL WOODWORK/ SPECIALTIES						
296	<u>Decon RM</u>						
297	Stainless steel Base cabinet/counter	6	lf	850.00	5,100		
298	Stainless steel upper cabinets	6	lf	400.00	2,400		
299	<u>Evidence Processing</u>						
300	Stainless steel Base cabinet/counter	16	lf	850.00	13,600		
301	Stainless steel upper cabinets	16	lf	400.00	6,400		
302	<u>Firearms Cleaning</u>						
303	Stainless steel Base cabinet/counter	15	lf	850.00	12,750		
304	Stainless steel upper cabinets	15	lf	400.00	6,000		
305	<u>Metal Shelving</u>						
306	Assault Storage	41	lf	800.00	32,800		
307	Narcotics Storage	22	lf	800.00	17,600		
308	Weapons Storage	21	lf	800.00	16,800		
309	Stainless steel shelving (Decon, EMS supplies, SFD Washer Dryer) - allowance	1	ea	15,000.00	15,000		
310	Heavy-duty galvanized shelving (Hose & Foam) - allowance	1	ea	5,000.00	5,000		
311	Metal Shelving (SPD Training Aids Sto/ Firearms cleaning/ SPD Quartermaster sto/ SPD Motorcycle & bike supplies/ SPD Found Property) - Allowance	1	ea	50,000.00	50,000		
312							
313	<u>Interior trim</u>						
314	Chair rails	225	lf	25.00	5,625		
315	<u>First Floor</u>						
316	<u>Kitchen and Dining RM</u>						
317	Stainless steel Base cabinet/counter	28	lf	850.00	23,800		
318	Stainless steel upper cabinets	28	lf	400.00	11,200		
319	Stainless steel Island cabinet/counter	9	lf	1,200.00	10,800		
320	<u>Mothers RM</u>						
321	Base cabinet with plam countertop	11	lf	450.00	4,950		
322	Upper cabinets	11	lf	200.00	2,200		
323	<u>Feature wall at Lobby</u>						
324	Feature Desk	11	lf	1,000.00	11,000		
325	Built in Display at feature wall	8	lf	1,000.00	8,000		
326	Lobby pamphlet racks - allowance	1	ea	3,000.00	3,000		
327	<u>Patrol Evid. Prep</u>						
328	Base cabinets with solid surface countertops	18	lf	575.00	10,350		
329	Upper cabinets	18	lf	200.00	3,600		
330	<u>Corridor 101</u>						
331	Base cabinet with plam countertop	9	lf	450.00	4,050		
332	Upper cabinets	9	lf	200.00	1,800		
333	<u>Report Writing</u>						
334	Base cabinet with plam countertop	16	lf	450.00	7,200		
335	Upper cabinets	16	lf	200.00	3,200		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
336	<u>Roll Call</u>						
337	Base cabinet with plam countertop	24	lf	450.00	10,800		
338	Upper cabinets	24	lf	200.00	4,800		
339	<u>Mail Alcove</u>						
340	Post Cubbies	20	lf	800.00	16,000		
341	<u>Aux Day Kitchen</u>						
342	Base cabinet with plam countertop	16	lf	450.00	7,200		
343	Upper cabinets	16	lf	200.00	3,200		
344	<u>Turn Out Gear</u>						
345	Locker room countertop	12	lf	250.00	3,000		
346	<u>2nd Floor</u>						
347	<u>Washer/Dryer RM</u>						
348	Base cabinet with plam countertop	17	lf	450.00	7,650		
349	Upper cabinets	17	lf	200.00	3,400		
350	<u>Feature wall at Lobby</u>						
351	Feature Desk	11	lf	1,000.00	11,000		
352	Built in Display at feature wall	4	lf	1,000.00	4,000		
353	<u>Shared Conference RM</u>						
354	Base cabinets with solid surface countertops	16	lf	575.00	9,200		
355	Upper cabinets	16	lf	200.00	3,200		
356	<u>Record Office</u>						
357	Base cabinet with plam countertop	8	lf	450.00	3,600		
358	Upper cabinets	8	lf	200.00	1,600		
359	<u>Work Room</u>						
360	Base cabinet with plam countertop	10	lf	450.00	4,500		
361	Upper cabinets	10	lf	200.00	2,000		
362	<u>Break RM</u>						
363	Base cabinet with plam countertop	14	lf	450.00	6,300		
364	Upper cabinets	14	lf	200.00	2,800		
365	<u>Community RM</u>						
366	Base cabinet with plam countertop	9	lf	450.00	4,050		
367	Upper cabinets	9	lf	200.00	1,800		
368	<u>Locker Room</u>						
369	Locker RM Built in Bench	11	lf	300.00	3,300		
370	Base cabinets with solid surface countertops	10	lf	575.00	5,750		
371	Locker RM Changing Bench	7	lf	300.00	2,100		
372	Locker RM, vanity bar	9	lf	200.00	1,800		
373	<u>Bathrooms</u>						
374	Vanity	42	lf	275.00	11,550		
375	<u>3rd Floor</u>						
376	<u>Evidence Lab</u>						
377	Base cabinets with epoxy solid surface countertops	26	lf	575.00	14,950		
378	Upper cabinets	26	lf	200.00	5,200		
379	<u>Evidence Technical RM</u>						
380	Base cabinets with solid surface countertops	9	lf	575.00	5,175		
381	Upper cabinets	9	lf	200.00	1,800		
382	<u>Family Services</u>						
383	Base cabinet with plam countertop	6	lf	450.00	2,700		
384	Upper cabinets	6	lf	200.00	1,200		
385	<u>Work Room</u>						
386	Base cabinet with plam countertop	17	lf	450.00	7,650		
387	Upper cabinets	17	lf	200.00	3,400		
388	<u>Shared Break RM</u>						
389	Base cabinet with plam countertop	9	lf	450.00	4,050		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING + PARKING GARAGE								
390	Upper cabinets	9	lf	200.00	1,800			
391	<u>Bathrooms</u>							
392	Vanity	8	lf	275.00	2,200			
393	<u>4th Floor</u>							
394	<u>Kitchenette Cabinet - Break RM</u>							
395	Base cabinet with plam countertop	13	lf	450.00	5,850			
396	Upper cabinets	13	lf	200.00	2,600			
397	<u>Kitchenette Cabinet - Dispatch Break RM</u>							
398	Base cabinet with plam countertop	17	lf	450.00	7,650			
399	Upper cabinets	17	lf	200.00	3,400			
400	<u>Miscellaneous</u>							
401	Coat rods & shelves	1	ls	2,000.00	2,000			
402	Wood workbench (SFD Repair shop)	1	ls	5,000.00	5,000			
403	Wall shelving (Dispatch; Fire Admin Sto; SFD Repair shop; Pkg Sign Shop)	1	ls	16,000.00	16,000			
404	Transaction counter (Pkg Public Waiting)	1	ls	2,500.00	2,500			
405	Wood wainscot (Pkg Public Waiting)	160	sf	65.00	10,400			
406								
407	<u>GARAGE</u>							
408	No work in this section							
409	SUBTOTAL					534,350		
410								
411								
412	TOTAL - WOOD, PLASTICS AND COMPOSITES						\$881,065	
413								
414								
415	07 - THERMAL AND MOISTURE PROTECTION							
416								
417	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
418	Waterproofing at SOG				assumed not required			
419	Waterproofing at foundation walls + drainage board	4,098	sf	8.00	32,784			
420	Waterproofing at elevator pit	1	ls	5,000.00	5,000			
421	<u>Exterior Walls</u>							
422	Exterior skin air vapor barrier	24,740	sf	7.50	185,550			
423	AVB at window openings at exterior	3,300	lf	6.00	19,800			
424	Backer rod & double sealant at exterior	3,300	lf	10.00	33,000			
425	<u>Interiors</u>							
426	Exterior Doors; Backer rod & double sealant	176	lf	10.00	1,760			
427	Backer rod & double sealant at interior doors	3,902	lf	5.00	19,510			
428	Backer rod & double sealant at interior glazing	800	lf	2.50	2,000			
429	Miscellaneous sealants throughout building	79,120	gsf	1.00	79,120			
430	Exterior skin miscellaneous sealants	45,080	sf	0.50	22,540			
431								
432	<u>GARAGE</u>							
433	Waterproofing at SOG				assumed not required			
434	Waterproofing slab above evidence bay, bike storage, building & grounds storage and trash room	3,342	sf	10.00	33,420			
435	Waterproofing at foundation walls + drainage board	2,870	sf	8.00	22,960			
436	<u>Exterior Walls</u>							
437	Exterior skin air vapor barrier	14,398	sf	7.50	107,985			
438	AVB at openings at exterior	99	lf	6.00	594			
439	Exterior Doors; Backer rod & double sealant	99	lf	10.00	990			
440	<u>Interiors</u>							
441	Backer rod & double sealant at interior doors	127	lf	5.00	635			
442	Miscellaneous sealants throughout building	55,953	gsf	1.50	83,930			



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
443	Exterior skin miscellaneous sealants	14,398	sf	0.50	7,199		
444	SUBTOTAL					658,777	
445							
446	070002 ROOFING AND FLASHING						
447							
448	MAIN BUILDING						
449	Roof Covering - Roof Terrace	1,802	sf				
450	Roof Covering; 2nd Floor Roof	5,654	sf				
451	Roof Covering - 3rd Floor Roof	3,353	sf				
452	Roof Covering; Roof Level	12,248	sf				
453		23,057	sf				
454							
455	<u>TPO Roof system</u>						
456	TPO Roof membrane, white	23,057	sf	8.00	184,456		
457	Cover board	23,057	sf	2.00	46,114		
458	6" Insulation	23,057	sf	5.00	115,285		
459	2" Tapered insulation	23,057	sf	2.50	57,643		
460	Roof sheathing over metal deck	23,057	sf	2.00	46,114		
461	Air and vapor barrier	23,057	sf	1.00	23,057		
462	<u>Miscellaneous Roofing</u>						
463	Metal Coping, 4" deep by 16" wide	924	lf	30.00	27,720		
464	Abutment of roof covering & AV Barrier, up and over parapet	2,475	sf	9.00	22,275		
465	Roof deck terrace paver on pedestal	1,802	sf	35.00	63,070		
466	Roof pavers/walking pads - allow	500	sf	10.00	5,000		
467							
468	GARAGE						
469	Stairs D Roof	286	sf				
470		286	sf				
471							
472	<u>TPO Roof system</u>						
473	TPO Roof membrane, white	286	sf	8.00	2,288		
474	Cover board	286	sf	2.00	572		
475	6" Insulation	286	sf	5.00	1,430		
476	2" Tapered insulation	286	sf	2.50	715		
477	Roof sheathing over metal deck	286	sf	2.00	572		
478	Air and vapor barrier	286	sf	1.00	286		
479	<u>Miscellaneous Roofing</u>						
480	Metal Coping, 4" deep by 16" wide	70	lf	30.00	2,100		
481	Abutment of roof covering & AV Barrier, up and over parapet	105	sf	9.00	945		
482	SUBTOTAL					599,642	
483							
484	072100 INSULATION						
485	MAIN BUILDING						
486	2" Rigid insulation foundation wall	2,732	sf	2.25	6,147		
487	2" Rigid insulation under slab on grade	21,866	sf	2.25	49,199		
488	Exterior skin 5" Mineral Wool	24,740	sf	6.00	148,440		
489	Rigid insulation at base below grade	685	lf	4.00	2,740		
490	Foam insulation at exterior closure - assume at entrance soffits	1,408	sf	4.50	6,336		
491							
492	GARAGE						
493	5" Mineral Wool	14,398	sf	6.00	86,388		
494	Rigid insulation at base below grade	390	lf	4.00	1,560		
495	SUBTOTAL					300,810	
496							
497	074200 WALL & SOFFIT PANELS						



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

498	MAIN BUILDING						
499	<u>Exterior Skin</u>						
500	Limestone Panel	6,928	sf	120.00	831,360		
501	Terracotta Panel System	4,122	sf	95.00	391,590		
502	Wood Panel	35	sf	120.00	4,200		
503	Weather barrier	11,085	sf		See Waterproofing		
504	Rainscreen fiberglass attachment system	11,085	sf	5.00	55,425		
505	Z Clips	11,085	sf	3.00	33,255		
506	Limestone Perimeter at glazed openings (Jambs/Heads and Sills)	650	lf	70.00	45,500		
507	Terracotta Perimeter at glazed openings	975	lf	55.00	53,625		
508	<u>Soffit</u>						
509	Main entrance soffit	1,408	sf	50.00	70,400		
510	Level 2 soffit	584	sf	50.00	29,200		
511							
512	<u>GARAGE</u>						
513	Terracotta Panel System	8,116	sf	95.00	771,020		
514	Weather barrier	8,116	sf	7.50	60,870		
515	Rainscreen fiberglass attachment system	8,116	sf		See Waterproofing		
516	Z Clips	8,116	sf	3.00	24,348		
517	SUBTOTAL						2,370,793
518							
519	076400 METAL PANELS						
520	MAIN BUILDING						
521	<u>Exterior Skin</u>						
522	Metal Panel, Corrugated	1,678	sf	45.00	75,510		
523	Weather barrier	1,678	sf	7.00	11,746		
524	Rainscreen fiberglass attachment system	1,678	sf	5.00	8,390		
525	Metal Roof Cornice Detail, 1/A4.1	300	lf	200.00	60,000		
526	SUBTOTAL						155,646
527							
528	078100 FIREPROOFING & FIRE STOPPING						
529	MAIN BUILDING						
530	Fireproofing to floor/roof deck				assumed not required		
531	Intumescent paint to exposed beams				assumed not required		
532	Fire stopping throughout	79,120	sf	0.25	19,780		
533							
534	GARAGE						
535	Fireproofing to floor/roof deck				assumed not required		
536	Intumescent paint to exposed beams				assumed not required		
537	Fire stopping throughout	55,953	sf	0.10	5,595		
538	SUBTOTAL						25,375
539							
540	TOTAL - THERMAL AND MOISTURE PROTECTION						\$4,111,043
541							
542							
543	08 - OPENINGS						
544							
545	080001 ALUMINIUM STOREFRONT WINDOWS						
546							
547	MAIN BUILDING						
548	Curtain Wall	20,244	sf	130.00	2,631,720		
549	Windows	96	sf	110.00	10,560		
550	Aluminum louvers	100	sf	75.00	7,500		
551	Premium for spandrel panel	6,384	sf	30.00	191,520		
552	Premium for triple glazed	13,860	sf	20.00	277,200		
553	Sunshade device, 12" louver blade	3,275	lf	45.00	147,375		
554	Interior Vestibule CW, 14ft tall	476	sf	130.00	61,880		
555							



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
556	<u>Exterior Doors</u>						
557	Glazed aluminum entrance doors including frame and hardware; single	1	ea	4,500.00	4,500		
558	Glazed aluminum entrance doors including frame and hardware; double	2	pr	9,000.00	18,000		
559							
560	<u>Interior Doors</u>						
561	Glazed aluminum entrance doors including frame and hardware; double door	1	pr	8,000.00	8,000		
562							
563	<u>GARAGE</u>						
564	No work in this section						
565	SUBTOTAL					3,358,255	
566							
567	080002 GLASS AND GLAZING						
568							
569	MAIN BUILDING						
570	<u>Interior glazing</u>						
571	Transaction window - patrol desk	1	ea	1,500.00	1,500		
572	Horizontal sliding bullet resistant transaction window (Police Records- with deal tray; Traffic Office to Police Lobby)	2	ea	3,000.00	6,000		
573	Mirrored wall, assume 8ft (Sports RM)	1,104	sf	30.00	33,120		
574	Bullet resistant fixed window at Station Officer	64	sf	200.00	12,800		
575	Security shield (Booking)	168	sf	120.00	20,160		
576	Impact resistant glass (Temp Detention Holding)	64	sf	120.00	7,680		
577	Interior glazing, assume 8ft tall	2,016	sf	85.00	171,360		
578							
579	<u>GARAGE</u>						
580	No work in this section						
581	SUBTOTAL					252,620	
582							
583	081100 DOORS, FRAMES AND HARDWARE						
584	MAIN BUILDING						
585	<u>Exterior Doors</u>						
586	Exterior Doors; Frames, single	7	ea	475.00	3,325		
587	Exterior Doors; Hardware	7	leaf	1,100.00	7,700		
588	Frame, single	7	ea	450.00	3,150		
589	<u>Interior Doors</u>						
590	Frame, single	211	ea	300.00	63,300		
591	Frame, double	15	ea	375.00	5,625		
592	Frame, sidelight premium				assumed not required		
593	HM door - single	63	ea	325.00	20,475		
594	HM door - double	4	pr	650.00	2,600		
595	Wood door - single	148	ea	350.00	51,800		
596	Wood door - double	11	ea	700.00	7,700		
597	Premium for fully glazed panels per leaf				carried in glass & glazing		
598	Premium for half glazed panels per leaf				carried in glass & glazing		
599	Premium for vision glazed panels per leaf				carried in glass & glazing		
600	Premium for rating	9	ea	175.00	1,575		
601	Electronic Security HW/Door operators allowance	1	ea	50,000.00	50,000		
602	Hardware	241	leaf	800.00	192,800		
603							
604	<u>GARAGE</u>						
605	<u>Exterior & Interior Doors</u>						
606	Frame, single	5	ea	300.00	1,500		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
607	Frame, double	3	ea	375.00	1,125		
608	Frame, sidelight premium				med not required		
609	HM door - single	5	ea	325.00	1,625		
610	HM door - double	3	pr	650.00	1,950		
611	Premium for rating	3	ea	175.00	525		
612	Electronic HW/Door operators allowance	1	ea	8,000.00	8,000		
613	Hardware	11	leaf	800.00	8,800		
614	SUBTOTAL					433,575	
615							
616	083000 ACCESS DOORS						
617	Access doors	1	ls	4,000.00	4,000		
618	SUBTOTAL					4,000	
619							
620	083300 COILING DOORS AND GRILLES						
621	<u>GARAGE</u>						
622	OH; 24'-00" x 10'-00" overhead sectional door - Assumed	1	ea	14,400.00	14,400		
623	OH; 14'-00" x 10'-00" overhead sectional door	1	ea	8,400.00	8,400		
624	SUBTOTAL					22,800	
625							
626	083463 DETENTION DOORS						
627	Swing security door and frame assembly @ Cells	8	ea	9,000.00	72,000		
628	Premium for security grade hm door & frame - assumed	7	ea	250.00	1,750		
629	SUBTOTAL					73,750	
630							
631							
632	083613 SECTIONAL OVERHEAD DOORS						
633	OH; 14'-00" x 14'-00" insulated overhead sectional door	4	ea	19,600.00	78,400		
634	OH; 14'-00" x 10'-00" insulated overhead sectional door - Sallyport	1	ea	14,000.00	14,000		
635	SUBTOTAL					92,400	
636							
637							
638	TOTAL - OPENINGS						\$4,237,400
639							
640							
641	09 - FINISHES						
642							
643	090003 TILE						
644	<u>Wall Finishes</u>						
645	Wall tile - custodian mop sinks	320	sf	25.00	8,000		
646	Wall tile - toilets/showers full ht, assume 8ft	10,040	sf	30.00	301,200		
647	Wall tile - backsplash at Kitchenettes assumed	243	sf	45.00	10,935		
648	<u>Floor Finishes</u>						
649	Granite stone 12" x 12" x 3/8" - Level 1 Vest & Lobby	1,503	sf	35.00	52,605		
650	Granite stone 12" x 12" x 3/8" - Level 2 Vest & Lobby	953	sf	35.00	33,355		
651	Granite stone 12" x 12" x 3/8" - Level 3 Vest & Lobby	544	sf	35.00	19,040		
652	Granite stone 12" x 12" x 3/8" - Level 4 Vest & Lobby	180	sf	35.00	6,300		
653	Stone Base	736	lf	35.00	25,760		
654	Porcelain Ceramic Tile	2,640	lf	25.00	66,000		
655	Tile Base	1,255	lf	25.00	31,375		
656	Quarry Tile	315	lf	28.00	8,820		
657	Quarry Tile Base	101	lf	28.00	2,828		
658	Marble thresholds	1	ls	2,500.00	2,500		
659	<u>Stairs Finishes</u>						
660	Feature Stairs at Entrance Lobby finish	1	ea	40,000.00	40,000		
661	SUBTOTAL					608,718	



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
662							
663	090006 RESILIENT FLOORS						
664	<u>Floor Finishes</u>						
665	Linoleum tile resilient floor covering	24,972	sf	6.50	162,318		
666	Rubber tile	1,974	sf	14.00	27,636		
667	Resilient Base	11,879	lf	3.00	35,637		
668	<u>Stairs Finishes</u>						
669	Stairs A: Metal pan egress stairs - rubber	4	flt	3,500.00	14,000		
670	Stairs B: Metal pan egress stairs- rubber	4	flt	3,500.00	14,000		
671	Stairs C: Metal pan egress stairs- rubber	4	flt	3,500.00	14,000		
672	GARAGE						
673	<u>Stairs Finishes</u>						
674	Stairs D: Metal pan egress stairs - rubber	2	flt	3,500.00	7,000		
675	SUBTOTAL					274,591	
676							
677	090009 PAINTING						
678	<u>Walls</u>						
679	Paint to GWB	194,024	sf	0.80	155,219		
680	Paint to CMU	23,728	sf	1.25	29,660		
681	Epoxy paint premium	65,326	sf	1.00	65,326		
682	<u>Floor Finishes</u>						
683	Sealed concrete - Harden Concrete	10,827	sf	1.50	16,241		
684	Sealed concrete - Back of House	5,139	sf	1.50	7,709		
685	<u>Ceilings</u>						
686	Paint to GWB ceilings/soffits	24,651	sf	1.25	30,814		
687	Paint to exposed ceilings - assumed	282	sf	2.50	705		
688	Paint to GWB ceiling at stairs	12	flr	500.00	6,000		
689	<u>Doors</u>						
690	Finish doors and frames	249	ea	200.00	49,800		
691	Exterior Doors; Finish doors and frames	7	ea	200.00	1,400		
692	GARAGE						
693	<u>Walls</u>						
694	Paint to Parking Garage				Assume No Work Required		
695	Paint to CMU	8,792	sf	1.25	10,990		
696	Epoxy paint premium	8,792	sf	1.00	8,792		
697	<u>Floor Finishes</u>						
698	Sealed Concrete - Back Of House	3,342	sf	1.50	5,013		
699	Sealed Concrete - Parking Garage	49,542	sf	1.50	74,313		
700	Traffic coating				Assume No Work Required		
701	Road markings	49,542	sf	0.50	24,771		
702	<u>Ceilings</u>						
703	Paint to exposed ceilings - assumed				Assume No Work Required		
704	Paint to GWB ceiling at stairs	2	flr	500.00	1,000		
705	<u>Doors</u>						
706	Finish doors and frames	11	ea	200.00	2,200		
707	SUBTOTAL					489,953	
708							
709	092900 GWB						
710	<u>Exterior Walls</u>						
711	Exterior Sheathing, 1/2"	24,740	sf	3.75	92,775		
712	Metal Stud, 6"	24,740	sf	7.75	191,735		
713	Interior GWB, 5/8"	24,740	sf	3.75	92,775		
714	LGMF roof cornice above Apparatus Bay main entrance, per detail 1/A4.3	90	lf	72.00	6,480		
715	Premium for 2nd Level additional framing at cast stone detail above Apparatus Bay main entrance, 2 layers of 4" stud	300	sf	10.00	3,000		
716	<u>Partitions</u>						



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
717	Wall Type A1+E3: 7/8" mtl Furring w/GWB 1 Side	5,690	sf	6.25	35,563		
718	Wall Type A3+E3: 3-5/8" Stud w/GWB 1 Side & insulation	2,462	sf	9.75	24,005		
719	Wall Type B2: 3-5/8" Stud w/GWB 2 Sides & insulation	49,258	sf	13.50	664,983		
720	Wall Type B3: 6" Stud w/GWB 2 Sides & insulation	14,654	sf	15.50	227,137		
721	Wall Type C1: 3-5/8" Stud w/GWB 2 Sides, Plywood 1side and & insulation	2,828	sf	17.00	48,076		
722	Wall Type D1&D2: Chase Wall; 3-5/8" Stud x 2, w/GWB x 2 Sides & insulation x2	3,040	sf	19.50	59,280		
723	Wall Type G3: 6" C-H Stud, w/GWB x 1 & Shaft Liner	3,238	sf	14.90	48,246		
724	Mezz Walls - Assume Stud Partition w/ framed plywood	6,204	sf	17.00	105,468		
725	Furring to Mezz wall at double ht space	1,344	sf	6.25	8,400		
726	Tactical Training Wall				Assume FF&E		
727	Premium for Bullet Resistance wall, assume 10 ft ht	2,000	sf	50.00	100,000		
728	Premium for AR - Tactical training	1,100	sf	2.00	2,200		
729	Premium for MR - wall tile	10,360	sf	0.70	7,252		
730	<u>Ceilings</u>						
731	GWB ceiling	24,351	sf	14.50	353,090		
732	Vestibule roof	138	sf	25.00	3,450		
733	GWB soffit, vertical	300	sf	17.50	5,250		
734	Allowance for vertical soffits	135,073	sf	0.20	27,015		
735	<u>Stairs Ceiling Finishes</u>						
736	Stairs A: Metal pan egress stairs - gwb	4	flt	4,500.00	18,000		
737	Stairs B: Metal pan egress stairs- gwb	4	flt	4,500.00	18,000		
738	Stairs C: Metal pan egress stairs- gwb	4	flt	4,500.00	18,000		
739							
740	<u>GARAGE</u>						
741	Assume no work in this section						
742	<u>Stairs Finishes</u>						
743	Stairs D: Metal pan egress stairs - gwb	2	flt	3,500.00	7,000		
744	SUBTOTAL					2,167,180	
745							
746	095100 ACT						
747	2' x 2'	36,743	sf	7.25	266,387		
748	Cell security ceiling	914	sf	40.00	36,560		
749	Ceiling - Misc. Areas	7,272	sf	6.50	47,268		
750	SUBTOTAL					350,215	
751							
752	096566 SYNTHETIC ATHLETIC FLOORING						
753	Sports flooring	3,719	sf	18.00	66,942		
754	SUBTOTAL					66,942	
755							
756	096723 RESINOUS FLOORING						
757	Epoxy flooring	5,784	sf	16.50	95,436		
758	Epoxy flooring integral base	1,651	lf	12.00	19,812		
759	SUBTOTAL					115,248	
760							
761	096820 CARPET TILE						
762	Carpet tile	10,672	sf	6.25	66,700		
763	SUBTOTAL					66,700	
764							
765	096900 ACCESS FLOOR						
766	Access flooring - Dispatch RM	1,957	sf	10.00	19,570		
767	SUBTOTAL					19,570	
768							
769	097000 WALL FINISHES						
770	FRP Wall finish	300	sf	15.00	4,500		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING + PARKING GARAGE								
771	Pre-engineered architectural wall cladding - at Ele. Lobby - Allowance	1,000	sf	80.00	80,000			
772	<u>GARAGE</u>							
773	FRP Wall finish - allowance	500	sf	15.00	7,500			
774	SUBTOTAL					92,000		
775								
776	098400 ACOUSTIC WALL PANELS							
777	Acoustic wall panels allowance	1,500	sf	30.00	45,000			
778	SUBTOTAL					45,000		
779								
780	099699 WATER VAPOR EMISSION CONTROL							
781	<u>Koster;Water vapor reduction system</u>							
782	Carpet tile	10,672	sf	3.75	40,020			
783	Epoxy flooring	5,784	sf		Assumed Not Required			
784	Sports flooring	3,719	sf	3.75	13,946			
785	Linoleum tile resilient floor covering	24,972	sf	3.75	Not Required			
786	Rubber tile	1,974	sf		Assumed Not Required			
787	Sealed concrete - Harden Concrete	15,966	sf		Assumed Not Required			
788	Floor Tile	315	sf		Assumed Not Required			
789	SUBTOTAL					53,966		
790								
791	TOTAL - FINISHES						\$4,350,083	
792								
793								
794	10 - SPECIALTIES							
795								
796	101100 VISUAL DISPLAY BOARDS							
797	Markerboards allow	1,000	sf	25.00	25,000			
798	Tackboards allow	500	sf	20.00	10,000			
799	SUBTOTAL					35,000		
800								
801	101400 SIGNAGE							
802	Plaques	1	loc	3,500.00	3,500			
803	Room Signs	226	loc	120.00	27,120			
804	Dimensional letter signage at main lobby	1	ls	5,000.00	5,000			
805	Building mounted backlite aluminum letters 24" , 29 letters	1	ea	22,500.00	22,500			
806	Exterior parking and traffic signs					In Site		
807	SUBTOTAL					58,120		
808								
809	102600 PARTITIONS							
810	Demountable wall partitions (SPD Detectives office)	1	lf	12,500.00	12,500			
811	SUBTOTAL					12,500		
812								
813	102113 METAL TOILET COMPARTMENTS							
814	S.S H-Cap Toilet Compartment	4	ea	1,800.00	7,200			
815	S.S Standard Toilet Compartment	7	ea	1,600.00	11,200			
816	S.S Urinal screen	1	ea	700.00	700			
817	SUBTOTAL					19,100		
818								
819	102800 TOILET ACCESSORIES							
820	Janitors Closet Accessories	5	rms	300.00	1,500			
821	Single bathroom	18	rms	1,150.00	20,700			
822	Medium bathroom	2	ea	2,200.00	4,400			
823	Shower seat- Assume	6	loc	350.00	2,100			
824	Shower curtain and rod	20	loc	200.00	4,000			
825	Changing stall curtain and rod	2	ea	200.00	400			
826	Detention cell toilet paper holder	8	loc	100.00	800			
827	Hair dryer at locker rooms					Assume Not Required		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

828 SUBTOTAL 33,900

829

830 **104400 FIRE EXTINGUISHER CABINETS**

831 Fire extinguisher cabinets 26 ea 350.00 9,100

832 Knox box 1 ea 2,000.00 2,000

833 SUBTOTAL 11,100

834

835 **105000 STORAGE SPECIALTIES**

836 High density file storage w/recessed tracks (Active Files/ CID Secure Files)

837 High Density Storage: Active Record Storage, 20ft by 6ft 1 ea 30,000 30,000

838 High Density Storage: CID Secure Files, 16ft by 15ft 1 ea 60,000 60,000

839 High Density Storage: Evidence General Storage, 33ft by 26ft 1 ea 200,000 200,000

840 High Density Storage: Inactive Record Storage, 34ft by 24ft 1 ea 185,000 185,000

841 High Density Storage: Police Active Files, 15ft by 10ft 1 ea 40,000 40,000

842 Metal shelving (Traffic equip sto) 46 lf 600.00 27,600

843 Lockers

844 Evidence storage lockers with power (SPD Evidence Locker)(assume dispatch room), 24" by 18" 22 ea 950.00 20,900

845 Evidence processing pass-through lockers 10 lf 1,000.00 10,000

846 Gun lockers (Sallyport) 1 ea 2,500.00 2,500

847 Property lockers (Booking) 12 ea 700.00 8,400

848 Police lockers (Men/Women, 3ft by 2.5ft) 152 ea 1,800.00 273,600

849 Turn out gear cubicles (Fire TO Gear/ Auxiliary TO Gear), 2ft by 2ft 88 ea 1,400.00 123,200

850 18 x 24 lockable storage units with power, USB, and benches (SFD Locker rm) 27 ea 950.00 25,650

851 SUBTOTAL 1,006,850

852

853 **108213 ROOF SCREENS**

854 Allowance - 24 ga. min. corrugated acoustical metal screen panels fastened to galvanized steel support system by Roof Screen Inc. 1 ea 25,000.00 25,000

855 SUBTOTAL 25,000

856

857

858 **TOTAL - SPECIALTIES \$1,201,570**

859

860

861 **11 - EQUIPMENT**

862

863 **111200 PARKING CONTROL EQUIPMENT**

864 GARAGE

865 Parking Gates, w/card control 1 ls 10,000.00 10,000

866 SUBTOTAL 10,000

867

868 **111920 SECURITY HARDWARE**

869 Incl above in Div.8

870 SUBTOTAL -

871

872 **114000 RESIDENTIAL EQUIPMENT**

873 Appliances

874 Microwave (Dispatch break room) 1 ea 900.00 900

875 30" w. refrig. (Shared Training rm Kitchenette/ Dispatch break room/ Mothers room) 3 ea 1,200.00 3,600

876 4 Burner range with oven & exhaust hood (Dispatch break room) 1 ea 3,000.00 3,000

877 Washer & dryer (Decon; SFD Washer Dryer) 1 ea 3,200.00 3,200

878 6 Burner range with oven, exhaust hood, commercial uc dishwasher, 36" refrig/freezer, 1 ea 13,200.00 13,200



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
BUILDING + PARKING GARAGE								
879	4 Burner range with oven, exhaust hood, 36" refrig (SFD Auxiliary Day Kitchenette)	2	ea	4,200.00	8,400			
880	SUBTOTAL					32,300		
881								
882	115000 LABORATORY EQUIPMENT							
883	Fume Hood (SPD Evidence / Firearms) Cleaning	2	ea	10,000.00	20,000			
884	Police Evidence Dusting Station	1	ea	5,000.00	5,000			
885	SUBTOTAL					25,000		
886								
887	115213 PROJECTION SCREENS							
888	Projection screen at training				Not Required			
889	SUBTOTAL					-		
890								
891	115000 SECURITY EQUIPMENT							
892	Weapons cleaning device	1	ea	3,000.00	3,000			
893	SUBTOTAL					3,000		
894								
895	TOTAL - EQUIPMENT						\$70,300	
896								
897								
898	12 - FURNISHINGS							
899								
900	122410 WINDOW TREATMENT							
901	Manual shades at interior windows at SFD Dorms, Training & Conference rooms	160	sf	8.50	1,360			
902	Manual shades at exterior windows at SFD Dorms, Training & Conference rooms - assumed	1,160	sf	9.50	11,020			
903	SUBTOTAL					12,380		
904								
905	123100 METAL MANUFACTURED CASEWORK							
906	See above in Div. 5							
907	SUBTOTAL					-		
908								
909	124810 ENTRANCE MATS							
910	Recessed entry mats & frames	200	sf	55.00	11,000			
911	SUBTOTAL					11,000		
912								
913	TOTAL - FURNISHINGS						\$23,380	
914								
915								
916	14 - CONVEYING SYSTEMS							
917								
918	144000 ELEVATORS							
919	MRL Traction elevator systems elevator; single sided, 4 stop, 2,500 lbs.	2	ea	280,000.00	560,000			
920	SUBTOTAL					560,000		
921								
922	TOTAL - CONVEYING						\$560,000	
923								
924								
925	21 - FIRE SUPPRESSION							
926								
927	210000 FIRE PROTECTION							
928	<u>MAIN BUILDING</u>							
929	<u>Equipment</u>							
930	6" double check valve assembly	1	ea	14,000.00	14,000			
931	Main wet alarm check valve	1	ea	5,500.00	5,500			



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

932	Storz fire department connection	1	ea	1,600.00	1,600		
933	Electric bell	1	ea	40.00	40		
934	Zone control valve station	4	ea	2,500.00	10,000		
935	Fire department hose valve	6	ea	850.00	5,100		
936	Sprinkler heads	760	ea	110.00	83,600		
937	Distribution piping with fittings & hangers	8,350	lf	28.00	233,800		
938	Main sprinkler piping with fittings & hangers	1,450	lf	48.00	69,600		
939	Standpipe with fittings & hangers	350	lf	72.00	25,200		
940	<u>Miscellaneous</u>						
941	Coordination & BIM	1	ls	9,000.00	9,000		
942	Hydraulic calculations	1	ls	6,000.00	6,000		
943	Coring, sleeves & fire stopping	1	ls	5,000.00	5,000		
944	Commissioning of system	1	ls	3,000.00	3,000		
945	Fees & permits				assumed waived		

GARAGE

Equipment

949	Manual dry standpipes	6	ea	4,500.00	27,000		
950	Storz fire department connection	1	ea	1,600.00	1,600		
951	Standpipe distribution piping	425	lf	78.00	33,150		
952	Miscellaneous valves & accessories	1	ls	5,000.00	5,000		
953	<u>Miscellaneous</u>						
954	Coordination & BIM	1	ls	2,500.00	2,500		
955	Hydraulic calculations	1	ls	1,500.00	1,500		
956	Coring, sleeves & fire stopping	1	ls	2,000.00	2,000		
957	Commissioning of system	1	ls	500.00	500		
958	Fees & permits	1	ls	1,500.00	1,500		

SUBTOTAL

546,190

TOTAL - FIRE SUPPRESSION

\$546,190

22 - PLUMBING

220000 PLUMBING

MAIN BUILDING

Equipment

969	Water meter assembly	1	ea	4,500.00	4,500		
970	4" Reduce pressure backflow preventer	1	ea	5,400.00	5,400		
971	Electric point of use water heaters	1	ls	35,000.00	35,000		
972	Elevator sump pump	2	ea	3,100.00	6,200		
973	Oil/water separator	2	ea	5,500.00	11,000		
974	Roof Drains	8	ea	1,200.00	9,600		
975	Floor drains	35	ea	650.00	22,750		
976	Trench drains (traffic rated)	90	lf	125.00	11,250		
977	Trap primers	27	ea	750.00	20,250		
978	Water hammer Arrestors	1	ls	1,500.00	1,500		
979	Air compressor, dryer, filters, etc.	1	ls	17,000.00	17,000		

Plumbing Fixtures

981	Wall hung water closet	23	ea	1,750.00	40,250		
982	Wall hung water closet ADA	11	ea	1,780.00	19,580		
983	Urinal ADA	2	ea	1,800.00	3,600		
984	Lavatory, wall mtd	12	ea	1,440.00	17,280		
985	Countertop lavatory	20	ea	1,320.00	26,400		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
986	Electric water cooler with bottle fill	1	ea	3,800.00	3,800		
987	Mop receptor	5	ea	1,350.00	6,750		
988	Shower with valve	10	ea	1,300.00	13,000		
989	Shower with valve, seat, grab bars ADA	8	ea	3,600.00	28,800		
990	Emergency shower/eyewash	1	ea	3,850.00	3,850		
991	Laundry sink	1	ea	2,300.00	2,300		
992	Break sink	5	ea	1,300.00	6,500		
993	Sink	4	ea	1,200.00	4,800		
994	Kitchen sink	2	ea	1,350.00	2,700		
995	Ice-maker connection	4	ea	300.00	1,200		
996	Laundry washer box	1	ea	375.00	375		
997	Decon shower	2	ea	4,000.00	8,000		
998	Hose station	2	ea	4,800.00	9,600		
999	Lav-toilet Comby SS (Penal, Institutional)	8	ea	6,800.00	54,400		
1000	Detention hose bibb	2	ea	600.00	1,200		
1001	Hose bibb	10	ea	325.00	3,250		
1002	Non-freeze wall hydrant	5	ea	450.00	2,250		
1003	<u>Domestic Water Piping</u>						
1004	Domestic water piping	5,750	lf	43.00	247,250		
1005	Valves & accessories	1	ls	25,000.00	25,000		
1006	Insulation; pipe	5,750	lf	11.00	63,250		
1007	<u>Sanitary W&V AG, Hubless Cast Iron Pipe</u>						
1008	Cast iron pipe with fittings & hangers	2,800	lf	60.00	168,000		
1009	<u>Sanitary W&V UG, SV Cast Iron Pipe</u>						
1010	Waste & vent piping (includes garage waste)	750	lf	55.00	41,250		
1011	<u>Storm Drainage AG, Hubless Cast Iron Pipe</u>						
1012	Cast iron pipe with fittings & hangers	400	lf	85.00	34,000		
1013	Pipe insulation on horizontal runs	200	lf	20.00	4,000		
1014	Storm outlets & accessories	1	ls	1,500.00	1,500		
1015	<u>Storm Drainage UG, SV Cast Iron Pipe</u>						
1016	SV Cast iron pipe with fittings	250	lf	58.00	14,500		
1017	<u>Compressed Air Piping</u>						
1018	Compressed Air piping	600	lf	35.00	21,000		
1019	Valves & Fittings	1	ls	8,500.00	8,500		
1020	Air Hose Reel	12	ea	850.00	10,200		
1021	<u>Miscellaneous</u>						
1022	Coordination & BIM	1	ls	40,000.00	40,000		
1023	Coring, sleeves & fire stopping	1	ls	7,500.00	7,500		
1024	Commissioning support	1	ls	10,000.00	10,000		
1025	Testing & sterilization	1	ls	6,000.00	6,000		
1026	Fees & Permits				assumed waived		
1027							
1028	<u>GARAGE</u>						
1029	<u>Plumbing Equipment</u>						
1030	Drains	30	ea	2,200.00	66,000		
1031	Oil/water separator	2	ea	8,500.00	17,000		
1032	<u>Garage Waste, Cast Iron Pipe</u>						
1033	UG Garage Waste Drainage, B&S Cast Iron	1,350	lf	60.00	81,000		
1034	AG Garage Waste Drainage, Hubless Cast Iron	650	lf	50.00	32,500		
1035	<u>Miscellaneous</u>						
1036	Coordination & BIM	1	ls	7,500.00	7,500		
1037	Coring, sleeves & fire stopping	1	ls	2,500.00	2,500		
1038	Fees & Permits	1	ls	5,000.00	5,000		
1039	SUBTOTAL						1,317,785
1040							



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

1041	TOTAL - PLUMBING						\$1,317,785
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1042							
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1043							
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1044	23 - HVAC						
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1045							
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1046	230000 HVAC						
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1047	<u>MAIN BUILDING</u>						
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1048	<u>Heating equipment</u>						
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1049	Unit heater	6	ea	1,100.00		6,600	
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1050	Cabinet unit heater	8	ea	1,550.00		12,400	
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1051	Apparatus/Aux Bay electric radiant slab htg system	7,600	sf	11.00		83,600	
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1052	Apron electric radiant slab heating system	4,000	sf	11.00		44,000	
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1053	<u>Cooling Equipment</u>						
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1054	Ductless split AC unit with ACCU 1.5 ton (Elev)	1	ea	8,000.00		8,000	
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1055	Ductless split AC unit with ACCU 2.5 ton (IDF)	4	ea	9,500.00		38,000	
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1056	DX CRAC with ACCU, 5 tons for IT Head End Room	2	ea	25,000.00		50,000	
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1057	DX Split HP AC unit with ACCU, 7.5 tons (Dispatch)	2	ea	24,000.00		48,000	
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1058	<u>Air Distribution</u>						
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1059	<u>Air Handling Unit (Assume Package Rooftop Units)</u>						
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1060	AHU-1 15800 CFM 53 ton pkg HP RTU (Police Dept)	15,800	cfm	13.00		205,400	
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1061	AHU-2 10200 CFM 38 ton pkg HP RTU (Fire Dept)	10,200	cfm	13.00		132,600	
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1062	AHU-3 19800 CFM 67 ton pkg HP RTU (Comm,Well,Off)	19,800	cfm	13.00		257,400	
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1063	AHU-4 4800 CFM 18 ton pkg HP RTU, ERW (Locker)	4,800	cfm	14.50		69,600	
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1064	AHU-5 2400 CFM 10 ton pkg HP RTU, ERW (Hold/Proc)	2,400	cfm	14.50		34,800	
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1065	AHU-6 9000 CFM ERU (Apparatus Bay, Support)	9,000	cfm	11.00		99,000	
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1066	<u>Exhaust fan</u>						
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1067	General exhaust fans	1	ls	20,000.00		20,000	
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1068	Kitchen exhaust fan	1	ea	6,000.00		6,000	
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1069	Dryer exhaust fan	1	ea	1,200.00		1,200	
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1070	Apparatus vehicle exhaust system	1	ls	60,000.00		60,000	
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1071	Sallyport exhaust system	1	ls	12,000.00		12,000	
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1072	Armory gun cleaning hood EF	1	ea	3,500.00		3,500	
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1073	Fingerprint hood EF	1	ea	2,000.00		2,000	
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1074	Drug Storage room EF	1	ea	3,000.00		3,000	
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1075	<u>Sheet metal & Accessories</u>						
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1076	Galvanized ductwork	86,000	lbs	15.00		1,290,000	
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1077	Duct insulation	51,000	sf	4.50		229,500	
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1078	Black steel welded ductwork with hangers	500	lbs	20.00		10,000	
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1079	Duct insulation, fire wrap	300	sf	19.00		5,700	
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1080	Registers, grilles & diffusers	79,120	sf	1.00		79,120	
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1081	VAV unit with elec heating coil and sound attenuator	70	ea	1,200.00		84,000	
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1082	Sound attenuators for AHU SA/RA (if required)	12	ea	6,000.00		72,000	
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1083	Louvers	1	ls	5,000.00		5,000	
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1084	Roof hoods	1	ls	10,000.00		10,000	
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1085	Security bars	1	ls	5,000.00		5,000	
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1086	<u>Refrigerant Piping</u>						
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1087	Refrigerant piping with fittings & hangers	1,350	lf	28.00		37,800	
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1088	<u>Condensate Drain Piping</u>						
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1089	Condensate drain piping with fittings & hangers	400	lf	38.00		15,200	
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1090	<u>Piping Insulation</u>						
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1091	Piping insulation	1,750	lf	11.00		19,250	
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1092	<u>Automatic Temperature Controls</u>						
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1093	Automatic temperature controls DDC	79,120	sf	6.25		494,500	
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	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

1094	<u>Balancing</u>						
1095	System testing & balancing	79,120	sf	0.90	71,208		
1096	<u>Miscellaneous</u>						
1097	System testing and flushing	1	ls	8,000.00	8,000		
1098	Coring, cutting, sleeves & fire stopping	1	ls	10,000.00	10,000		
1099	Seismic Restraints and Structural Steel Comp.	1	ls	20,000.00	20,000		
1100	Hydraulic lifts/rigging	1	ls	50,000.00	50,000		
1101	Shop drawings / BIM / ENG Support / As-Builts	1	ls	80,000.00	80,000		
1102	Commissioning Support	1	ls	20,000.00	20,000		
1103	Fees & Permits				assumed waived		
1104							
1105	<u>GARAGE</u>						
1106	Not required since Open Garage						
1107	SUBTOTAL					3,813,378	
1108							
1109	TOTAL - HVAC						\$3,813,378

26 - ELECTRICAL

D5010 SERVICE & DISTRIBUTION

MAIN BUILDING

1116	Gear & Distribution						
1117	<u>Normal Power</u>						
1118	2000A 480/277V switchboard	1	ls	65,000.00	65,000		
1119	750kW Diesel generator in WP housing inc fuel for testing	1	ea	275,000.00	275,000		
1120	Load bank (allow)	1	ea	25,000.00	25,000		
1121	Kirk-key interlock	1	ea	2,500.00	2,500		
1122	Gen status panel	1	ea	2,500.00	2,500		
1123	Temp gen connection box	1	ea	20,000.00	20,000		
1124	Normal/Emergency power with associated panelboards, transformers and feeders	79,120	sf	7.00	553,840		
1125	<u>UPS system</u>						
1126	45KW UPS system	1	ea	50,000.00	50,000		
1127	Grounding & bonding	1	ls	8,500.00	8,500		
1128	<u>Equipment Wiring</u>						
1129	Elevator feed and connection	2	ea	3,500.00	7,000		
1130	Elevator cab power feed and connection	2	ea	1,500.00	3,000		
1131	Sump pump feed and connection	1	ea	1,200.00	1,200		
1132	Air compressor feed and connection	1	ea	1,500.00	1,500		
1133	Overhead doors feed and connection	4	ea	1,200.00	4,800		
1134	Boilers feed and connection (200KW Electric)				See Options 2&3 HVAC		
1135	AHU feed and connection (Electric)	6	ea	20,000.00	120,000		
1136	Split unit feed and connection	9	ea	3,500.00	31,500		
1137	Vehicle exhaust system feed and connection	2	ea	2,500.00	5,000		
1138	WH feed and connection	1	ea	650.00	650		
1139	EF feed and connection	6	ea	850.00	5,100		
1140	Electric radiant heating feed and connection	1	ea	5,000.00	5,000		
1141	CUH/UH feed and connection	14	ea	750.00	10,500		
1142	DDC feed and connection	2	ea	450.00	900		
1143	Equipment wiring feeds and connection	79,120	sf	0.50	39,560		
1144	<u>Lighting</u>						
1145	LED lighting including egress	72,762	sf	6.00	436,572		
1146	Apparatus bays lighting	6,358	sf	3.00	19,074		



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
1147	<u>Lighting Control</u>						
1148	Automated lighting control system	79,120	sf	1.25	98,900		
1149	<u>Branch Power</u>						
1150	Branch devices	79,120	sf	0.75	59,340		
1151	<u>Lighting and Branch Power</u>						
1152	Lighting and Branch Power	79,120	sf	6.50	514,280		
1153	<u>Telephone/Data/CATV</u>						
1154	PBX/network switching (By others)					By Others	
1155	Telcom rough-in, devices and cabling	79,120	sf	3.50	276,920		
1156	<u>Fire Alarm</u>						
1157	Fire alarm system utilizing conduits and Fire rated MC cable	79,120	sf	2.50	197,800		
1158	BDA/DAS system, allow	79,120	sf	1.00	79,120		
1159	<u>Paging System</u>						
1160	PA system	79,120	sf	1.50	118,680		
1161	<u>Zetron System (rough-in only)</u>						
1162	Conduit and backboxes only	1	ls	10,000.00	10,000		
1163	<u>Security System</u>						
1164	Security system	79,120	sf	5.00	395,600		
1165	<u>Two-Way Communication System</u>						
1166	Two-way communication system	1	ls	10,000.00	10,000		
1167	<u>Training Room</u>						
1168	Local sound system	1	ls	7,500.00	7,500		
1169	Projector feed and connection	1	ea	450.00	450		
1170	AV system rough in & power only	79,120	sf	0.25	19,780		
1171	<u>Antenna System/Satellite Dish</u>						
1172	Rough-in only, conduit and cable tray	2	ls	7,500.00	15,000		
1173	<u>Detention Door Cell Lock System</u>						
1174	Control panel	1	ls	5,000.00	5,000		
1175	Door cell lock system	8	ea	3,500.00	28,000		
1176	<u>Sally port Control</u>						
1177	Overhead door, control, lights feed and connection	1	ea	1,200.00	1,200		
1178	<u>Radio/Dispatch Room</u>						
1179	Dispatch equipment					By owner	
1180	OIC office equipment					By owner	
1181	Rough-in only	2	loc	10,000.00	20,000		
1182	<u>E-911 / Radio</u>						
1183	E-911 rough-in	1	ls	5,000.00	5,000		
1184	<u>PV System (Rough in only)</u>						
1185	Rough-in conduit only	1	ls	10,000.00	10,000		
1186	<u>Miscellaneous</u>						
1187	Lightning protection system	1	ls	45,000.00	45,000		
1188	Extra materials per spec, allow for GGD standard	1	ls	10,000.00	10,000		
1189	Coordination study/testing	1	ls	10,000.00	10,000		
1190	Coordination & BIM	1	ls	25,000.00	25,000		
1191	Temp power and lights	1	ls	40,000.00	40,000		
1192	Seismic restraints	1	ls	5,000.00	5,000		
1193	Identification	1	ls	2,500.00	2,500		
1194	Fees & Permits	1	ls	35,000.00	35,000		
1195							
1196	<u>GARAGE</u>						
1197	<u>Electrical requirements</u>						



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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BUILDING + PARKING GARAGE

1198	Garage electrical inc panelboards, equipment wiring, lighting w/integral OC sensors, controls, branch devices, fire alarm devices, telecom, security, temp lighting and power and other misc. electrical (includes roof pole lights and circuitry)	55,953	sf		5.50	307,742	
1199	SUBTOTAL					4,046,508	
1200	TOTAL -ELECTRICAL						\$4,046,508

31 - EARTHWORK

312000 EARTHWORK

1208	MAIN BUILDING						
1209	<u>Special Foundations</u>						
1210	<u>Aggregate Pile Allowance</u>	21,866	sf		30.00	655,980	
1211	Mobilizing/Demobilization					Incl above	
1212	Testing					Incl above	
1213	Drill boring - Allow average 20ft long/30" wide					Incl above	
1214	Remove off site from drilling					Incl above	
1215	Boulder removal, not included					Incl above	
1216	Aggregate piles, compact					Incl above	
1217	<u>Shoring</u>					Assume Not Required	
1218	<u>Strip footings/Basement walls</u>						
1219	Excavation	658	cy		14.00	9,212	
1220	Remove off site	658	cy		55.00	36,190	
1221	Backfill with imported material	433	cy		45.00	19,485	
1222	<u>Spread footings</u>						
1223	Excavation	933	cy		14.00	13,062	
1224	Remove off site	933	cy		55.00	51,315	
1225	Backfill with imported material	801	cy		45.00	36,045	
1226	<u>Miscellaneous</u>						
1227	Gravel fill beneath footings, 6"	57	cy		45.00	2,565	
1228	Perimeter drain - assumed	723	lf		22.50	16,268	
1229	E+B for plumbing	21,866	sf		1.50	32,799	
1230	Under slab drainage system					Assumed Not Required	
1231	Allowance for dewatering for foundation work	1	ls		20,000.00	20,000	
1232	<u>Slab on grade</u>						
1233	Gravel base, 12"	810	cy		45.00	36,450	
1234	Compact sub-grade	21,866	sf		0.55	12,026	
1235	GARAGE						
1237	<u>Special Foundations</u>						
1238	<u>Aggregate Pile Allowance</u>	19,900	sf		30.00	597,000	
1239	Mobilizing/Demobilization					incl above	
1240	Testing					incl above	
1241	Drill boring - Allow average 20ft long/30" wide					incl above	
1242	Remove off site from drilling					incl above	
1243	Boulder removal, not included					incl above	
1244	Aggregate piles, compact					incl above	
1245	<u>Shoring at edge of Apartment building</u>	1	ea		50,000.00	50,000	
1246	<u>Strip footings/Basement walls</u>						
1247	Excavation	547	cy		14.00	7,658	
1248	Remove off site	547	cy		55.00	30,085	
1249	Backfill with imported material	363	cy		45.00	16,335	
1250	<u>Spread footings</u>						
1251	Excavation	563	cy		14.00	7,882	
1252	Remove off site	563	cy		55.00	30,965	
1253	Backfill with imported material	483	cy		45.00	21,735	
1254	<u>Miscellaneous</u>						



Somerville Public Safety Building
 90 Washington St,
 Somerville, MA 02143

8-Sep-21

100% Schematic Design Estimate

GFA

135,073

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
BUILDING + PARKING GARAGE							
1255	Perimeter drain - assumed	450	lf	22.50	10,125		
1256	E+B for plumbing	19,900	sf	1.50	29,850		
1257	Under slab drainage system				Assumed Not Required		
1258	Allowance for dewatering for foundation work	1	ls	10,000.00	10,000		
1259	<u>Slab on grade</u>						
1260	Gravel base, 12"	737	cy	45.00	33,165		
1261	Gravel fill at Ramp	463	cy	40.00	18,520		
1262	Compact sub-grade	19,900	sf	0.55	10,945		
1263							
1264	SUBTOTAL					1,815,662	
1265							
1266							
1267							
TOTAL - EARTHWORK							\$1,815,662



100% Schematic Design Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITEWORK

SITEWORK

Note: Site A and C Designated for future development and assume Not In Contract
Note: New Washington Road Construction is assumed Not In Contract

311000 SITE PREPARATION

Site construction fence/barricades	1,900	lf	20.00	38,000		
Site construction fence gates	1	ea	5,000.00	5,000		
Clear and grub site	95,530	sf	0.25	23,883		
Remove existing foundations	8,147	sf	15.00	122,205		
Sawcut existing pavement	200	lf	8.00	1,600		
Remove existing hardscape	14,573	sf	3.00	43,719		
Demo & Remove existing utilities	1	ea	15,000.00	15,000		
Demo & Remove metal guard rail	503	lf	10.00	5,030		
Miscellaneous demolition	95,530	ls	0.50	47,765		
SUBTOTAL						302,202

312000 EARTHWORK

Strip topsoil and store on site - assume Site store on site A or C	1,348	cy	14.00	18,872		
Site Cut	8,082	cy	8.00	64,656		
Fill - Reuse existing				Assume Soils Not Suitable		
Fill - Imported	1,789	cy	45.00	80,505		
Export materials off site	8,082	cy	55.00	444,510		
Fine grading	10,614	sy	0.80	8,491		
Dust Control	1	ls	12,000.00	12,000		
Remove subsurface obstructions/ledge contingency	1	ls	50,000.00	50,000		
<u>Hazardous Waste Remediation</u>						
Removal/Disposal/Handling of hazardous materials				assumed not required		
SUBTOTAL						679,034

312500 EROSION CONTROL

Silt fence/erosion control, wash bays, stock piles	1,900	lf	11.00	20,900		
Silt fence maintenance and monitoring	1	ls	9,500.00	9,500		
Drain-Inlet protection	1	ea	3,500.00	3,500		
SUBTOTAL						33,900

320000 SITE PAVING

<u>Bit Paving at Driveways</u>	993	sf				
gravel base; 12" thick	37	cy	45.00	1,665		
bituminous concrete; 4" thick	25	tns	130.00	3,250		
<u>Bit Paving at Walkways</u>	4,543	sf				
gravel base; 12" thick	168	cy	45.00	7,560		
bituminous concrete; 3" thick	4,543	sf	3.50	15,901		
Assume metal retaining edge	1,564	lf	10.00	15,640		
<u>Colored Concrete</u>	1,773	sf				
gravel base; 12" thick	66	cy	45.00	2,970		
Colored concrete paving	1,773	sf	15.00	26,595		
<u>Concrete Pavers</u>	2,745	sf				
gravel base & setting bed; 12" thick	102	cy	45.00	4,590		
Concrete Pavers	2,745	sf	25.00	68,625		
<u>Entry Areas Concrete</u>	7,591	sf				
gravel base; 12" thick	281	cy	45.00	12,645		



Somerville Public Safety Building
 90 Washington St,
 Somerville, MA 02143

8-Sep-21

100% Schematic Design Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
55	Rebar	9,850	lbs	2.00	19,700		
56	8" concrete paving	197	cy	150.00	29,550		
57	Place and finish	7,591	sf	3.00	22,773		
58	<u>Concrete paving at Equipment pads</u>						
59	Concrete paving						
60	gravel base; 12" thick	5	cy	45.00	225		
61	12" concrete paving	140	sf	15.00	2,100		
62	<u>Playground surface</u>						
63	gravel base; 12" thick	73	cy	40.00	2,920		
64	Concrete base	1,972	sf	8.00	15,776		
65	Poured rubber playground surface	1,972	sf	22.00	43,384		
66	<u>New Washington Street Sidewalk</u>						
67	Saw cut and remove existing curb and sidewalk	4,262	sf	5.00	21,310		
68	gravel base; 6" thick	158	cy	40.00	6,320		
69	Mesh	4,901	sf	1.50	7,352		
70	concrete paving, 4"	55	cy	150.00	8,250		
71	Place and finish	4,262	sf	1.50	6,393		
72	New curb - assume granite	666	lf	45.00	29,970		
73	Repair existing asphalt	666	lf	10.00	6,660		
74	<u>Miscellaneous</u>						
75	Granite curb	290	lf	45.00	13,050		
76	Road markings	1	ls	1,500.00	1,500		
77	Entrance sign allowance	1	ea	3,500.00	3,500		
78	SUBTOTAL					400,174	
79							
80	323000 SITE IMPROVEMENTS						
81	Flags	1	ea	4,500.00	4,500		
82	Artist Installation	1	ea	3,000.00	3,000		
83	Bike Rack, 6 Space + Bike Repair Station	1	ea	1,500.00	1,500		
84	Trellis w/vines	2,095	sf	35.00	73,325		
85	Bollards	4	ea	750.00	3,000		
86	Exterior parking and traffic signs - allow	1	ea	1,500.00	1,500		
87	Tree Grate, 5ft by 5ft	4	ea	500.00	2,000		
88	Pedestal table, w/ 4 seats	2	ea	1,500.00	3,000		
89	Pedestal table, w/ 4 seats - roof terrace	1	ea	1,500.00	1,500		
90	Play Equipment - allowance	1	ea	50,000.00	50,000		
91	Stand alone bench, various lengths (14 total)	94	lf	500.00	47,000		
92	Planter Wall/ Raise Edge, 30"	509	lf	600.00	305,400		
93	Planter Wall Bench, 30"	31	lf	650.00	20,150		
94	Planting Bed Edge - assume Granite curb	191	lf	45.00	8,595		
95	Playground Chainlink Fence, w/2 gates	183	lf	30.00	5,490		
96	Allowance for misc. site furnishings	1	ea	10,000.00	10,000		
97	SUBTOTAL					539,960	
98							
99	329000 LANDSCAPING						
100	<u>Landscaping</u>						
101	Topsoil - amended for berms and lawn build up	1,348	cy	26.00	35,048		
102	Lawn - loam & seed	25,615	sf	0.40	10,246		
103	Planter soils - at Planters. Assume 2 ft deep	182	cy	70.00	12,740		
104	<u>Trees</u>						
105	Tress, Large - allowance	14	ea	2,000.00	28,000		
106	Tress, Medium - allowance	9	ea	1,500.00	13,500		
107	Evergreen Shrubs	7	ea	500.00	3,500		
108	Perennial Ornamental Grasses	1,378	sf	10.00	13,780		



100% Schematic Design Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
109	Vines @ Trellis	1	ea	1,000.00	1,000		
110	Allowance for shrub, plants and ground cover	1	ls	10,000.00	10,000		
111	Irrigation system allowance; assumed connection to water supply				assumed not required		
112	SUBTOTAL					127,814	
113							
114	330000 CIVIL UTILITIES						
115	<u>Domestic Water supply</u>						
116	Water	55	lf	90.00	4,950		
117	Water- Valve	1	ea	1,000.00	1,000		
118	Water- connect to stub	1	ea	15,000.00	15,000		
119	<u>Fire Water supply</u>						
120	Fire Water- 6"	55	lf	120.00	6,600		
121	Water- connect to stub	1	ea	15,000.00	15,000		
122	Fire Water- Gate Valve	1	ea	1,500.00	1,500		
123	<u>Sanitary</u>						
124	Sanitary- 6"	100	lf	65.00	6,500		
125	Sanitary- Oil/Water separator				With Plumbing		
126	Sanitary- Connect to existing sewer main	1	ea	3,000.00	3,000		
127	<u>Storm water</u>						
128	Drain- trench drain				Assume Not Required		
129	Drain- 10"	110	lf	60.00	6,600		
130	Drain- DMH	2	ea	4,200.00	8,400		
131	Drain- Subsurface infiltration system	945	sf	40.00	37,800		
132							
133	<u>Gas service</u>						
134	E&B trench for new gas pipe allowance	528	lf	30.00	15,840		
135	SUBTOTAL					122,190	
136							
137	334000 ELECTRICAL WORK						
138	Site Civil for Electrical						
139	<u>Concrete:</u>						
140	Primary ductbank (allow)	300	lf	30.00	9,000		
141	Secondary ductbank	50	lf	40.00	2,000		
142	Generator ductbank	50	lf	20.00	1,000		
143	Communications duct bank (allow)	300	lf	20.00	6,000		
144	Transformer pad	1	ea	2,000.00	2,000		
145	Generator pad	1	ea	2,000.00	2,000		
146							
147	<u>Excavation & Backfill:</u>						
148	Primary ductbank (allow)	300	lf	30.00	9,000		
149	Secondary ductbank	50	lf	28.00	1,400		
150	Generator ductbank	50	lf	22.00	1,100		
151	Communications duct bank (allow)	300	lf	22.00	6,600		
152	Site lighting (Allow)	600	lf	5.00	3,000		
153							
154	<u>Power</u>						
155	Utility company back charges (allow)	1	ls		By Owner		
156	Pole riser	1	ea	1,500.00	1,500		
157	Primary duct bank 2-5" empty conduit	300	lf	70.00	21,000		
158	Utility company pad mounted transformer				Utility co.		
159	Transformer pad	1	ea	2,200.00	2,200		
160	2000A Secondary duct bank, allow	70	lf	650.00	45,500		
161	Vehicle charging station	19	ea	7,500.00	142,500		
162	40A VCS feed and controls	300	lf	14.00	4,200		
163	<u>Generator duct bank, allow</u>						
164	Generator pad	1	ea	2,000.00	2,000		
165	400 & 100A feed inc controls	50	lf	350.00	17,500		



Somerville Public Safety Building
 90 Washington St,
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8-Sep-21

100% Schematic Design Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	SITWORK						
166	<u>Communications , allow</u>						
167	Pole riser	1	ea	1,500.00	1,500		
168	Telecom duct bank 4-4" conduits	300	lf	120.00	36,000		
169	Fire Alarm Duct bank 2-4" conduits	300	lf	60.00	18,000		
170	<u>Site Lighting , allow</u>						
171	Pole lights, bases and circuitry	1	ls	100,000.00	100,000		
172	<u>Site Security , allow</u>						
173	Pole mounted cameras and circuitry	1	ls	50,000.00	50,000		
174	SUBTOTAL					485,000	
175	TOTAL - SITE DEVELOPMENT						\$2,690,274



Schematic Design Estimate

GFA

#REF!

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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PHOTOVOLTAICS

26 - ELECTRICAL

260000 ELECTRICAL

PHOTOVOLTAICS

233KW array of PV panels mounted over building roof	1	ls	650,000.00	650,000	
244KW array of PV panels mounted over parking garage	1	ls	675,000.00	675,000	
SUBTOTAL					1,325,000

Note: Trade Cost, See Summary

TOTAL -ELECTRICAL						\$1,325,000
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Schematic Design Estimate

GFA

#REF!

<i>CSI CODE</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>EST'D COST</i>	<i>SUB TOTAL</i>	<i>TOTAL COST</i>
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HVAC OPTIONS

23 -HVAC

230000 HVAC

Option 1: High Efficiency VAV System	79,120	sf	51.00	4,035,120
Option 2: Air Source VRF System (Includes Electric feed and connections)	79,120	sf	56.00	4,430,720
Option 3: Chilled Beam with Electric Heating (Includes Electric feed and connections)	79,120	sf	63.00	4,984,560
Option 4: Ground Source VRF System	79,120	sf	72.00	5,696,640
Option 5: Ground Source Chilled Beam System	79,120	sf	79.00	6,250,480

Note: Trade Cost, See Summary

TOTAL HVAC	Totals Above
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