



Design Development Estimate

Hamilton Town Hall Preservation Design Project - Option B

Hamilton, MA

PM&C LLC

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Prepared for:

LLB Architects

August 30, 2019

Updated September 21, 2019



Hamilton Town Hall
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MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
	Apr-21			
RENOVATE EXISTING TOWN HALL		11,733	\$288.46	\$3,384,501
ADDITION		1,120	\$880.71	\$986,391
HAZARDOUS MATERIALS ABATEMENT ¹				\$12,140
SITework				\$518,785
SUB-TOTAL		12,853	\$381.38	\$4,901,817
DESIGN AND PRICING CONTINGENCY - RENO	7%			\$274,080
DESIGN AND PRICING CONTINGENCY - ADD	10%			\$98,639
ESCALATION (Spring 2021 start)	6%			\$294,109
SUB-TOTAL		12,853	\$433.26	\$5,568,645
GENERAL CONDITIONS/GR's	14	mths	\$50,000	\$700,000
BOND	1.15%			\$64,039
INSURANCE GL/PL	1.85%			\$103,020
PERMIT				Waived
OVERHEAD + FEE	5.00%			\$321,785
TOTAL OF ALL CONSTRUCTION		12,853	\$525.75	\$6,757,489

Alternates;

Slate shingle in lieu of asphalt shingle at sloped roof

\$194,207

Note ¹: Per Smith & Wessel Associates, Inc. Inspection Report dated March 4, 2019



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This cost estimate was produced from feasibility design drawings, dated August 15th, 2019 prepared by LLB Architects and their design team. The estimate was updated 9/20/19 based on comments received from the architect on September 16, 2019.

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

Bidding conditions are expected to be public bidding 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:

- Land acquisition, feasibility, and financing costs
- All professional fees and insurance
- Site or existing conditions surveys investigations costs, including to determine subsoil conditions
- All Furnishings, Fixtures and Equipment
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items as indicated in the estimate
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Construction contingency
- Contaminated soils removal (as noted in Sitework)
- Gas Pumps



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CONSTRUCTION COST SUMMARY IN CSI FORMAT										
<i>TOWN HALL RENOVATION TOWN HALL ADDITION SITE WORK</i>										
<i>Subtotal Total</i>										
OPTION B										
DIV. 2 EXISTING CONDITIONS									\$197,096	\$197,096
024000 Demolition										
025000 Selective Demolition	\$197,096								\$197,096	
025100 Hazardous Abatement										
DIV. 3 CONCRETE									\$67,806	\$67,806
033000 Cast-in-Place Concrete	\$67,806		\$79,027		\$79,027		\$14,961		\$161,794	\$161,794
DIV. 4 MASONRY									\$145,605	\$145,605
040002 Unit Masonry	\$145,605		\$89,960		\$89,960				\$235,565	\$235,565
DIV. 5 METALS									\$45,866	\$45,866
051000 Structural Steel			\$49,680		\$49,680					
054000 Cold Form Metal Framing			\$20,216		\$20,216					
055000 Metal Fabrications	\$45,866		\$76,380		\$76,380				\$122,246	\$122,246
DIV. 6 WOODS & PLASTICS									\$461,786	\$461,786
060312 Historic Wood Repair	\$192,275		\$29,760		\$29,760				\$222,035	
061000 Rough Carpentry	\$112,021		\$5,932		\$5,932				\$117,953	
064100 Architectural Woodwork	\$157,490		\$8,820		\$8,820				\$166,310	
066600 Fiberglass Architectural Elements										
DIV. 7 THERMAL & MOISTURE PROTECTION									\$195,213	\$195,213
070001 Waterproofing, Damp proofing and	\$55,973		\$26,374		\$26,374				\$82,347	
070002 Roofing and Flashing	\$83,145		\$16,230		\$16,230				\$99,375	
072100 Thermal Insulation	\$54,922		\$10,325		\$10,325				\$65,247	
074623 Wood Siding										
078400 Fire stopping	\$1,173		\$3,200		\$3,200				\$4,373	
079500 Expansion joint covers			\$7,500		\$7,500				\$7,500	
DIV. 8 DOORS & WINDOWS									\$90,470	\$90,470
081110 Doors, Frames and Hardware	\$49,080								\$49,080	
083100 Access Doors and Frames	\$1,000								\$1,000	
083313 Coiling Doors										
085200 Wood Windows	\$3,240		\$107,460		\$107,460				\$110,700	
087100 Door Hardware	\$37,150		\$3,000		\$3,000				\$40,150	
088000 Glazing										
089000 Louvers										
DIV. 9 FINISHES									\$577,822	\$577,822
090560 Common Work Results for Flooring										
090002 Tiling	\$31,900								\$31,900	
090003 Acoustical Ceilings	\$42,602		\$4,704		\$4,704				\$47,306	
090005 Resilient Flooring	\$21,272		\$11,300		\$11,300				\$32,572	
090007 Painting	\$126,159		\$4,432		\$4,432				\$130,591	
091230 Plaster Patching and Repair	\$151,399								\$151,399	
092900 Gypsum Board Assemblies	\$166,135		\$8,879		\$8,879				\$175,014	
096560 Wood Flooring										
096810 Carpet	\$38,355		\$800		\$800				\$39,155	
DIV. 10 SPECIALTIES									\$24,951	\$24,951
101100 Visual Display Surfaces										
101400 Signage	\$11,733		\$2,000		\$2,000				\$13,733	
102100 Toilet Compartments										
102800 Toilet Accessories	\$8,558								\$8,558	
104400 Fire Protection Specialties	\$2,000		\$1,050		\$1,050				\$3,050	
105123 Lockers	\$2,660								\$2,660	
DIV. 11 EQUIPMENT									\$9,750	\$9,750
111600 Vault Door	\$6,250								\$6,250	
115213 Projection Screens	\$3,500								\$3,500	
DIV. 12 FURNISHINGS									\$16,310	\$16,310
122100 Window Shades	\$16,310								\$16,310	
123553 Casework										
124810 Entrance Floor Mats										
DIV. 13 SPECIAL CONSTRUCTION										
DIV. 14 CONVEYING SYSTEMS										
142400 Passenger Elevators			\$220,000		\$220,000				\$220,000	\$220,000
DIV. 21 FIRE SUPPRESSION									\$103,645	\$103,645
210000 Fire Protection	\$103,645		\$5,600		\$5,600				\$109,245	\$103,645
DIV. 22 PLUMBING									\$217,700	\$217,700
220000 Plumbing	\$217,700		\$5,000		\$5,000				\$222,700	\$217,700
DIV. 23 HVAC									\$570,494	\$570,494
230000 HVAC	\$570,494		\$66,000		\$66,000				\$636,494	\$570,494
DIV. 26 ELECTRICAL									\$615,243	\$615,243
260000 Electrical	\$615,243		\$47,640		\$47,640		\$76,850		\$739,733	\$615,243



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CONSTRUCTION COST SUMMARY IN CSI FORMAT						
	<i>TOWN HALL RENOVATION</i>	<i>TOWN HALL ADDITION</i>	<i>SITE WORK</i>		<i>Subtotal</i>	<i>Total</i>
OPTION B						
DIV. 31 EARTHWORK	\$44,744	\$75,122			\$106,853	\$191,719
311000 Site Preparation			\$71,800		\$71,800	
312000 Earthwork	\$44,744	\$40,122	\$25,553		\$110,419	
312500 Erosion control			\$9,500		\$9,500	
316600 Ground Improvement		\$35,000				
DIV. 32 EXTERIOR IMPROVEMENTS					\$113,121	\$113,121
320000 Paving			\$67,793		\$67,793	
323000 Site Improvements			\$24,625		\$24,625	
329200 Landscaping			\$20,703		\$20,703	
DIV. 33 UTILITIES					\$207,000	\$207,000
331000 Water Utilities			\$39,850		\$39,850	
333000 Sanitary Sewerage Utilities			\$86,950		\$86,950	
334000 Storm Drainage Utilities			\$80,200		\$80,200	
335000 Gas services						
SUBTOTAL DIRECT (TRADE) COST	\$3,384,501	\$986,391	\$518,785			\$4,889,677



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

GROSS FLOOR AREA CALCULATION

Lower Level	3,649
First Floor	4,021
Second Floor & Mezzanine	4,063
Mezzanine (400sf non-occupiable)	n/a

TOTAL GROSS FLOOR AREA (GFA)	11,733 sf
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02 - EXISTING CONDITIONS

024100 DEMOLITION

SUBTOTAL

025000 SELECTIVE DEMOLITION

025000	<u>Exterior</u>						
025000	Remove existing french drain system	311	lf	5.00	1,555		
025000	A10- Remove door and frame	1	ea	500.00	500		
025000	B2- Remove windows including quarry tile window sill	2	ea	400.00	800		
025000	B4- Remove fascia	276	lf	8.00	2,208		
025000	B6- Remove fire escape and related foundation	1	ea	5,000.00	5,000		
025000	B6- Remove wood steps and rails	83	lfr	15.00	1,245		
025000	B8- Remove portions of building foundation	30	sf	75.00	2,250		
025000	B15- Remove ramp and accessories (including foundations)	1	ea	2,500.00	2,500		
025000	B21- Remove walls/roof to basement dog house	1	ea	1,500.00	1,500		
025000	B22- Remove roof canopy/overhang and foundation	1	ea	2,500.00	2,500		
025000	B26- carefully remove corner and skirt trim board	900	lf	3.50	3,150		
025000	C9- Remove wall mounted light	3	ea	50.00	150		
025000	D4- Remove wall exhaust system	2	ea	50.00	100		
025000	D15- Remove wall mounted conduits and wires	4	loc	300.00	1,200		
025000	Remove gutter	273	lf	2.00	546		
025000	Remove downspout	343	lf	1.00	343		
025000	Misc. exterior demolition	1	ls	5,000.00	NR		
025000	Remove rooftop exhaust fan	1	loc	1,500.00	included in MEP demo		
025000	Remove existing roof asphalt roof, gutters and drip edge	4,630	sf	4.00	18,520		
025000	Remove EPDM roof system including edge metal flashing	227	sf	5.00	1,135		
	<u>Structural</u>						
025000	Demo and remove slab on grade at new Vault & bathrooms	350	sf	10.00	3,500		
025000	Demo and remove floor joists and decking in its entirety	1,146	sf	12.00	13,752		
	<u>Interior</u>						
025000	A10; Demo and remove existing door, frame and threshold	34	ea	200.00	6,800		
025000	B6; Demo and remove stairs	1	ls	8,000.00	8,000		
025000	Demolition of floors & ceilings	11,733	sf	2.00	23,466		
025000	A9; Demolition of interior walls	3,445	sf	3.00	10,335		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

44	025000	Demolition of office partitions & doors	225	lf	15.00	3,375	
45	025000	Remove casework and specialties	11,733	sf	0.50	5,867	
46	025000	Miscellaneous demolition/protection/shoring	11,733	gsf	2.50	29,333	
47	025000	Remove cut and capped MEP equipment, fixtures & fittings including radiators	11,733	sf	2.00	23,466	
48	025000	Cleaning/dust control etc. - allowance	1	ls	24,000.00	24,000	
49		SUBTOTAL					197,096

025100 HAZARDOUS ABATEMENT

SUBTOTAL

-

TOTAL - DEMOLITION

\$197,096

03 - CONCRETE

59	033000	<u>Vault roof; 12" thick</u>					
60	033000	Formwork	275	sf	22.00	6,050	
61	033000	Re-bar; #4 @ 12" EWEF	1,075	lbs.	1.50	1,613	
62	033000	Concrete material; 4,000 psi	8	cy	140.00	1,120	
63	033000	Placing concrete	8	cy	150.00	1,200	
64	033000	<u>Vault wall; 12" thick</u>					
65	033000	Formwork	972	sf	20.00	19,440	
66	033000	Re-bar; #4 @ 12" EWEF	1,944	lbs.	1.50	2,916	
67	033000	Concrete material; 4,000 psi	19	cy	140.00	2,660	
68	033000	Placing concrete	19	cy	150.00	2,850	
69	033000	<u>Vault slab; 12" thick</u>					
70	033000	Formwork	60	sf	20.00	1,200	
71	033000	Re-bar; #4 @ 12" EWEF	860	lbs.	1.50	1,290	
72	033000	WWF reinforcing	247	lbs.	1.00	247	
73	033000	Concrete material; 4,000 psi	8	cy	140.00	1,120	
74	033000	Placing concrete	8	cy	150.00	1,200	
75	033000	Dowel into existing slab	40	loc	100.00	4,000	
76							
77	033000	Patch concrete slab disturbed at new work	350	sf	20.00	7,000	
78	033000	Allowance for equipment pads	1	ls	1,500.00	1,500	
79							
80	033000	Resurfacing and patching of concrete slabs at lower level to receive new floor finish	3,100	sf	4.00	12,400	
81		SUBTOTAL					67,806

TOTAL - CONCRETE

\$67,806

04 - MASONRY

88	042000	Infill foundation wall; 12" CMU including dowels into existing	63	sf	45.00	2,835	
89	042000	Chimney work - demo/support or repoint	1	ls	30,000.00	30,000	
90	042000	Prep and re-point existing foundation & stone veneer	2,799	sf	35.00	97,965	
91	042000	Parge coat existing foundation	1,008	sf	10.00	10,080	
92	042000	Fieldstone patch at infilled foundation wall	63	sf	75.00	4,725	
93		SUBTOTAL					145,605



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

95	TOTAL - MASONRY						\$145,605
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96							
97							
98	05 - METALS						
99							

100	054000	COLD FORM METAL FRAMING					
101		SUBTOTAL				-	

102							
103	055000	METAL FABRICATIONS					
104	055000	New 1 1/2" diam tie rod w/ turnbuckle and hanger support @ 1/3 points at existing roof trusses	8	ea	3,000.00	24,000	
105	055000	Decorative metal guardrail at entry stair	18	lf	400.00	7,200	
106	055000	Miscellaneous metals throughout building	11,733	gsf	1.25	14,666	
107		SUBTOTAL					45,866

108	TOTAL - METALS						\$45,866
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109							
110							
111	06 - WOOD, PLASTICS AND COMPOSITES						
112							

113	060312	HISTORIC WOOD REPAIR					
114		Exterior					
115	060312	Replace cupola balustrade rail	60	lf	300.00	18,000	
116	060312	Replace cupola spire - allowance	1	ls	3,000.00	3,000	
117	060312	Reinstall stored on site Eagle weathervane	1	ls	500.00	500	
118	060312	New corner and skirt trim boards	900	lf	35.00	31,500	
119	060312	Allowance for new upper fascia (soffit to remain)	273	lf	75.00	20,475	
120	060312	Allowance to replace dentil molding; 20%	55	lf	45.00	2,475	
121	060312	GC to 25% wood clap board replacement	1,459	sf	35.00	51,065	
122	060312	Replace existing trim; 20%	180	lf	18.00	3,240	
123	060312	New 12" tapered wood columns; 9'-10"	4	ea	2,000.00	8,000	
124	060312	New bead board at awnings canopy	91	sf	20.00	1,820	
125	060312	New dental to match existing	67	lf	40.00	2,680	
126	060312	New door/window trim to match existing	72	lf	50.00	3,600	
127	060312	New fascia trim at new canopy/awning	47	lf	50.00	2,350	
128	060312	New wood panel trim at new entry canopy	102	sf	35.00	3,570	
129	060312	Staging/access	1	ls	30,000.00	30,000	
130	060312	Premium for staging at cupola and chimney	1	ls	10,000.00	10,000	
131		SUBTOTAL					192,275

132							
133	061000	ROUGH CARPENTRY					
134	061000	Infill with new floor structure at removed stair on first floor	175	sf	37.00	6,475	
135	061000	Rebuild floor structure at second floor, including shoring (demo carried separately)	1,146	sf	37.00	42,402	
136	061000	<u>Entry canopy roof</u>					
137	061000	Post P1; 2- 2x6	10	lf	22.00	220	
138	061000	3- 2x8	20	lf	16.00	320	
139	061000	2- 2x10	5	lf	15.00	75	
140	061000	3- 2x12" Ledger	10	lf	24.00	240	
141	061000	3 1/2"x11 7/8" LVL	30	lf	30.00	900	
142	061000	2x8 fanning infill at 16" oc	60	sf	10.00	600	
143	061000	5/8" Plywood sheathing	60	sf	3.75	225	



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTION B							
144	061000 <u>Attic</u>						
146	061000 Contractor to investigate attic framing and provide supplemental supports as required - allow	4,000	sf	6.00	24,000		
147	061000 <u>Exterior</u>						
148	061000 Infill exterior wall at old openings 2x6" wood stud backup	120	sf	9.00	1,080		
149	061000 Wall sheathing	120	sf	3.00	360		
150	061000 Wood blocking at exterior windows and doors	64	lf	6.00	384		
151	061000 Infill framing and patch sheathing at removed exhaust vent	36	sf	30.00	1,080		
152	061000 Allowance to remove and replace 20% of roof sheathing	938	sf	8.00	7,504		
153	061000 Allowance for miscellaneous blocking at new roof panels	4,691	sf	0.50	2,346		
154	061000 <u>Miscellaneous interiors</u>						
155	061000 Existing grand staircase to be reinforced structurally - allowance	1	ls	10,000.00	10,000		
156	061000 Rough blocking at partitions	584	lf	3.00	1,752		
157	061000 Wood blocking at interiors	11,733	gsf	0.75	8,800		
158	061000 Wood blocking at interior doors	627	lf	4.00	2,508		
159	061000 Backer panels in electrical closets	1	ls	750.00	750		
160	061000 SUBTOTAL					112,021	
161							
162	064020 ARCHITECTURAL WOODWORK						
252	064100 Wood frame storefront at sliding glass transaction window; 9' wide	1	ea	5,000.00	5,000		
253	064100 Wood frame storefront at sliding glass transaction window; 7' wide	1	ea	4,500.00	4,500		
163	064100 Install new door and hardware	41	ea	300.00	12,300		
164	064100 Install new door frame	36	ea	150.00	5,400		
165	064100 Dutch door with counter (relocate existing)	1	loc	1,200.00	1,200		
166	064100 Existing staircase railings to be restored - allowance	1	ls	20,000.00	20,000		
167	064100 New MZ railing to match existing	72	lf	280.00	20,160		
168	064100 New window and door trim to match existing - allow	200	lf	40.00	8,000		
169	064100 WB-1; Wood base, to match historic, 6 3/4"	180	lf	16.00	2,880		
170	064100 Wood chair rail	180	lf	30.00	5,400		
171	064100 Wood picture rail/ ceiling trim	180	lf	30.00	5,400		
172	064100 Wainscot at public windows and at meeting room wall infills; match existing historic hall wainscot panels	100	sf	90.00	9,000		
173	064100 Refinish and repair existing wainscot everywhere radiators have been removed - allow	24	loc	900.00	21,600		
174	064100 Base cabinet and counter at breakroom	9	lf	450.00	4,050		
175	064100 Breakroom counter	9	lf	300.00	2,700		
176	064100 Assessor & Treasurer solid surface transaction	16	lf	400.00	6,400		
177	064100 Community preservation counter	5	lf	300.00	1,500		
178	064100 Central workroom counter	9	lf	300.00	2,700		
179	064100 Assessor workroom counter	8	lf	300.00	2,400		
180	064100 Treasurer workroom counter	26	lf	300.00	7,800		
181	064100 Wall cabinet	10	lf	250.00	2,500		
182	064100 Building department workroom counter	12	lf	300.00	3,600		
183	064100 Wall cabinet	12	lf	250.00	3,000		
184	064100 SUBTOTAL					157,490	
185							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

186 **066600 FIBERGLASS ARCHITECTURAL ELEMENTS**

186 SUBTOTAL

TOTAL - WOOD, PLASTICS AND COMPOSITES	\$461,786
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07 - THERMAL AND MOISTURE PROTECTION

190 **070001 WATERPROOFING, DAMPPROOFING AND CAULKING**

190 070001 Waterproof at existing foundation 2,799 sf 10.00 27,990

191 070001 Drainage board at existing foundation 2,799 sf 3.00 8,397

191 070001 Vapor barrier at interior face of basement wall per partition type So2 2,799 sf 1.50 4,199

192 070001 Air barrier/flashing at windows 64 lf 6.25 400

192 070001 Air barrier/flashing at wall infill 120 sf 6.25 750

193 070001 Misc flashing at new corner and skirt boards 900 lf 5.00 4,500

193 070001 Miscellaneous sealants to closure 2,799 sf 1.00 2,799

194 070001 Backer rod & double sealant at exterior doors 34 lf 9.00 306

194 Interior

195 070001 Miscellaneous sealants at partitions 584 lf 3.00 1,752

195 070001 Backer rod & double sealant at interior doors 544 lf 2.50 1,360

196 070001 Miscellaneous sealants throughout building 11,733 gsf 0.30 3,520

196 SUBTOTAL

55.973

197 **070002 ROOFING AND FLASHING**

197 Flat roof

200 070002 New EPDM roofing membrane 227 sf 15.00 3,405

201 070002 Protection board 227 sf 3.00 681

202 070002 6" Rigid insulation 227 sf 8.00 1,816

203 070002 Reinforced vapor barrier 227 sf 2.00 454

204 Sloped roof

206 070002 New architectural asphalt roof including ice and water shield 4,691 sf 9.00 42,219

207 072100 5 1/2" Nail board insulation 4,691 sf 8.00 37,528

208 070002 Reinforced vapor barrier 4,691 sf 2.00 NR

209 Miscellaneous Roofing

210 070002 Roof edge at flat roof 106 lf 35.00 3,710

211 070002 Stainless steel snow guard hooks (assumes 12" oc) 273 ea 14.00 3,822

212 070002 Roof to wall flashing 85 lf 20.00 1,700

213 070002 Roof to wall flashing at cupola 23 lf 25.00 575

214 070002 Miscellaneous flashings 4,918 sf 1.00 4,918

215 070002 Aluminum gutter 273 lf 35.00 9,555

216 070002 Aluminum downspout 343 lf 30.00 10,290

217 SUBTOTAL

120,673

219 **072100 THERMAL INSULATION**

220 072100 Insulation at foundations, 2" rigid 2,799 sf 3.00 8,397

221 Exterior

222 072100 Insulation at wall infill 120 sf 5.00 600

223 072100 Blown-in cellulose insulation 12,152 sf NR

224 Interior



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
225	072100	2" Rigid insulation at basement level interior face of exterior wall	2,799	sf	3.00	8,397		
226		SUBTOTAL				17,394		
227								
228	078400	FIRESTOPPING						
229	078400	Fire stopping - allow	11,733	gsf	0.10	1,173		
230		SUBTOTAL				1,173		
231								
232	TOTAL - THERMAL AND MOISTURE PROTECTION						\$195,213	
233								
234								
235	08 - OPENINGS							
236								
237	081100	DOORS, FRAMES AND HARDWARE						
238	081110	<u>Frames</u>						
239	081110	Single leaf wood door frame	31	ea	680.00	21,080		
240	081110	Double leaf wood door frame	5	ea	680.00	3,400		
241	081110	<u>Door</u>						
242	081110	Wood door, single leaf	31	ea	600.00	18,600		
243	081110	Wood door, double leaf	5	pr	1,200.00	6,000		
244		SUBTOTAL				49,080		
245								
246	083100	ACCESS DOORS AND FRAMES						
247	083100	Access doors/ panels - allow	1	ls	1,000.00	1,000		
248		SUBTOTAL				1,000		
249								
250	085200	WINDOWS						
251	85200	New wood window historic	18	sf	180.00	3,240		
252		SUBTOTAL				3,240		
253								
254	087100	DOOR HARDWARE						
255	087100	Interior door hardware	41	leaf	750.00	30,750		
256	087100	Premium for sound gasketing	1	loc	400.00	400		
257	087100	Auto door opener	2	ea	3,000.00	6,000		
258		SUBTOTAL				37,150		
259								
260	088000	GLASS AND GLAZING						
261		SUBTOTAL				-		
262								
263	089000	FIXED LOUVERS						
264		SUBTOTAL				-		
265								
266	TOTAL - OPENINGS						\$90,470	
267								
268								



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

269	09 - FINISHES						
270							
271	090560	COMMON WORK RESULTS FOR FLOORING					
272		Included w/ 033000 concrete					
273		SUBTOTAL				-	
274							
275	090002	TILE					
276	090002	Ceramic tile floor	380	sf	25.00	9,500	
277	090002	Tile base; WB3	200	lf	14.00	2,800	
278	090002	Ceramic wall tile, 4' high	800	sf	23.00	18,400	
279	090002	Marble threshold	6	ea	200.00	1,200	
280		SUBTOTAL					31,900
281							
282	090003	ACT					
283	090003	New ACT ceilings; 2 x 2	6,086	sf	7.00	42,602	
284		SUBTOTAL					42,602
285							
286	090005	RESILIENT FLOORS					
287	090005	Allowance to repair/ replace existing stair finishes	1	ls	15,000.00	15,000	
288	090005	Linoleum at breakroom	219	sf	7.50	1,643	
289	090005	VCT at storage rooms	311	sf	4.00	1,244	
290	090005	Resilient base	1,354	lf	2.50	3,385	
291		SUBTOTAL					21,272
292							
293	090007	PAINTING					
294	090007	<u>Exterior painting</u>					
295	090007	Scrape prime and paint clapboard	5,837	sf	5.00	29,185	
296	090007	Prep and paint ex. wood dental at roof soffit	324	lf	4.00	1,296	
297	090007	Prep and paint ex. wood rail above north entry	17	lf	30.00	510	
298	090007	Paint new wood rail at cupola	60	lf	8.00	480	
299	090007	Prep & paint existing to remain entrance door and frame	4	lvs	500.00	2,000	
300	090007	Prep and paint panel details and trim	512	sf	8.00	4,096	
301	090007	Prep and paint window and door trim	1,440	lf	5.00	7,200	
302	090007	Paint new corner and skirt boards	900	lf	6.00	5,400	
303	090007	Existing cupola; scrape bare, prime and repaint - allow (staging separate)	1	ls	5,120.00	5,120	
304	090007	<u>Interior painting</u>					
305	090007	Existing staircases including grand staircase to be painted and restored - allowance	1	ls	10,000.00	10,000	
306	090007	Paint to new walls	19,368	sf	0.95	18,400	
	090007	Allowance to paint existing walls to remain	11,733	gsf	1.50	17,600	
307	090007	Prep & paint ETR ceilings	859	sf	1.50	1,289	
308	090007	Paint to gwb ceilings & soffits	544	sf	1.50	816	
309	090007	Prep & stain/paint new door and frame	41	lvs	150.00	6,150	
310	090007	Prep and stain/paint and restore relocated door and existing frame	1	lvs	750.00	750	
311	090007	Allowance to paint ETR woodwork and trim	1	ls	10,000.00	10,000	
312	090007	Interior painting/touch-up	11,733	gsf	0.50	5,867	
313		SUBTOTAL					126,159
314							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
315	091230 PLASTER PATCHING AND REPAIR							
316	091230 Allowance to patch existing walls to remain; plaster patching including at removed radiators (approx. 24	11,733	gsf	3.00	35,199			
317	091230 Patch veneer plaster ceiling at 2nd floor meeting room disturbed by new work; 18' high including staging	2,060	sf	20.00	41,200			
318	091230 Allowance for plaster bidding premium	1	ls	75,000.00	75,000			
319	SUBTOTAL					151,399		
320								
321	092900 GWB							
322	092900 <u>Interior Partitions</u>							
323	092900 Drywall lining to interior face of stud backup at exterior wall infill	120	sf	3.50	420			
324	092900 S02-03G; furring to interior face of exterior wall; 2 5/8" MS, 1 layer drywall (insulation and waterproofing in Div 07)	2,799	sf	7.50	20,993			
324	092900 W04-02G; Interior partition; 2x4 wood stud, 1 layer GWB b/s, insulation	7,014	sf	10.00	70,140			
325	092900 Plumbing partitions	210	sf	18.00	3,780			
326	092900 Form opening in existing exterior wall for new addition	564	sf	12.00	6,768			
327	092900 Form single door opening in existing exterior wall	1	loc	3,000.00	3,000			
328	092900 Infill door openings	2	loc	1,500.00	3,000			
329	092900 New door opening in existing partition; single	11	loc	1,200.00	13,200			
330	092900 Infill door opening in existing partition; double	1	loc	2,000.00	2,000			
331	092900 Allowance for patching/ furring existing walls	5,340	sf	6.00	32,040			
332	092900 Temporary support existing walls and install new knee wall extension after removal of existing floor	38	lf	75.00	2,850			
333	092900 <u>Ceilings</u>							
334	092900 GWB ceiling, "Chicago style"	380	sf	14.00	5,320			
335	092900 GWB soffit - allow	164	sf	16.00	2,624			
336	092900 Allowance to protect one of a kind murals, woodwork, muslin wall covering, bronze doors, plaques, paintings, doors, electrical fixtures, fireplaces etc.	11,733	gsf		NR			
337	SUBTOTAL					166,135		
338								
339	096560 WOOD FLOORING							
340	SUBTOTAL					-		
341								
342	096810 TILE CARPETING							
343	96810 Carpet at offices	7,135	sf	5.00	35,675			
344	96810 Walk-off carpet tile in vestibules	134	sf	20.00	2,680			
345	SUBTOTAL					38,355		
346								
347	TOTAL - FINISHES							\$577,822
348								
349								
350	10 - SPECIALTIES							
351								
352	101100 VISUAL DISPLAY BOARDS							
353	101100 Marker boards/ tack board allowance	11,733	gsf		FF+E			
354	SUBTOTAL					-		
355								
356	101400 SIGNAGE							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
357	101400 Signage - allowance	11,733	gsf	1.00	11,733			
358	SUBTOTAL					11,733		
359								
360	102110 TOILET COMPARTMENTS							
361	SUBTOTAL					-		
362								
363	102800 TOILET ACCESSORIES							
364	102800 Toilet tissue dispenser	6	ea	100.00	600			
365	102800 Soap dispenser	6	ea	60.00	360			
366	102800 Combination paper towel dispenser & disposal	6	ea	490.00	2,940			
367	102800 Mirror	6	ea	145.00	870			
368	102800 Grab bars	6	sets	120.00	720			
369	102800 Robe hook	12	ea	14.00	168			
370	102800 Shower accessories including folding seats	2	ea	1,200.00	2,400			
371	102800 Janitors closet accessories - allow	1	rms	500.00	500			
372	SUBTOTAL					8,558		
373								
374	104400 FIRE PROTECTION SPECIALTIES							
375	104400 Fire extinguisher cabinets	1	ls	2,000.00	2,000			
376	SUBTOTAL					2,000		
377								
378	105123 LOCKERS							
379	105123 Metal lockers, single tier, 18"x18"x72"	14	ope	190.00	2,660			
380	SUBTOTAL					2,660		
381								
382	TOTAL - SPECIALTIES							\$24,951
383								
384								
385	11 - EQUIPMENT							
386								
387	11160 VAULT DOOR							
388	111600 Vault door, complete	1	ea	6,250.00	6,250			
389	SUBTOTAL					6,250		
390								
391	115213 PROJECTION SCREENS							
392	115213 78" Electrically operated projection screen in Meeting room & 1# 55" TV screen in Conference room	1	ls	3,500.00	3,500			
393	SUBTOTAL					3,500		
394								
395	TOTAL - EQUIPMENT							\$9,750
396								
397								
398	12 - FURNISHINGS							
399								
400	122410 WINDOW TREATMENT							
401	122100 Roller window shades	2,330	sf	7.00	16,310			
402	SUBTOTAL					16,310		
403								
404	123000 FIXED CASEWORK							
405	SUBTOTAL					-		
406								
407	124810 ENTRANCE MATS							
408	124810 Included w/ Carpet							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B

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SUBTOTAL

-

TOTAL - FURNISHINGS	\$16,310
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14 - CONVEYING SYSTEMS

144000 ELEVATORS

w/ Addition

SUBTOTAL

-

TOTAL - CONVEYING	
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21 - FIRE SUPPRESSION

210000 FIRE PROTECTION

Equipment

Fire Pump

NR

Main Alarm check valve assembly

1

ea

5,000.00

5,000

Dry Alarm check valve assembly

1

ea

4,500.00

4,500

Double check valve assembly

1

ea

8,000.00

8,000

Fire department connection

1

ea

1,500.00

1,500

Zone control valve assembly

3

ea

2,500.00

7,500

Electric bell

1

ea

700.00

700

Air compressor assembly

1

ea

7,500.00

7,500

Sprinkler heads

124

ea

85.00

10,540

Sprinkler heads attic sidewall

15

ea

95.00

1,425

Main sprinkler piping with fittings & hangers

500

lf

33.00

16,500

Branch piping with fittings & hangers

990

lf

22.00

21,780

Dry sprinkler piping with fittings & hangers

180

lf

30.00

5,400

Miscellaneous valves, switches & accessories

1

ls

2,500.00

2,500

Miscellaneous

Coordination & BIM

1

ls

2,800.00

2,800

Hydraulic calculations

1

ls

3,000.00

3,000

Coring, sleeves & fire stopping

1

ls

2,000.00

2,000

Commissioning support

1

ls

2,000.00

2,000

Fees & permits

1

ls

1,000.00

1,000

SUBTOTAL

103,645

TOTAL - FIRE SUPPRESSION	\$103,645
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22 - PLUMBING

220000 PLUMBING

Equipment

Electric water heater 50 gallon

1

ea

7000.00

7,000

Water meter assembly

1

ea

4600.00

4,600

Backflow preventer

1

ea

4500.00

4,500

Mixing valve

1

ea

5500.00

5,500

Recirculating pump

1

ea

1600.00

1,600

Duplex sewage ejector station

1

ea

7500.00

7,500

Storm water pump

1

ea

20000.00

20,000



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
462	220000	Floor drain	1	ea	850.00	850		
463	220000	Hose bibb	2	ea	250.00	500		
464	220000	<u>Plumbing Fixtures & Specialties</u>	Note: Fixture count taken from Arch dwgs; 1 additional bathroom on plumbing dwgs					
465	220000	Water closet	6	ea	1400.00	8,400		
466	220000	Shower with seat, valve & drain	2	ea	3500.00	7,000		
467	220000	Lavatory	6	ea	1100.00	6,600		
468	220000	Sink	3	ea	1050.00	3,150		
469	220000	<u>Domestic Water</u>						
470	220000	Domestic water pipe with fittings & hangers	1,100	lf	40.00	44,000		
471	220000	Valves and accessories	1	ls	7000.00	7,000		
472	220000	<u>Sanitary Waste And Vent Pipe</u>						
473	220000	Sanitary waste pipe with fittings & hangers	1,000	lf	50.00	50,000		
474	220000	<u>Pipe Insulation</u>						
475	220000	Domestic water pipe insulation	1,000	lf	10.00	10,000		
476	220000	<u>Miscellaneous</u>						
477	220000	Demolition	1	ls	10000.00	10,000		
478	220000	Coordination & BIM	1	ls	8000.00	8,000		
479	220000	Coring, sleeves & fire stopping	1	ls	4000.00	4,000		
480	220000	Commissioning support	1	ls	2000.00	2,000		
481	220000	Testing and sterilization	1	ls	3500.00	3,500		
482	220000	Fees & permits	1	ls	2000.00	2,000		
483		SUBTOTAL				217,700		
484	TOTAL - PLUMBING							\$217,700
485								
486								
487								
488	23 - HVAC							
489								
490	230000 HVAC							
491	<u>Equipment</u>							
492	230000	VRF indoor unit	14	ea	2800.00	39,200		
493	230000	VRF condensate pump	14	ea	180.00	2,520		
494	230000	Branch controller	2	ea	4000.00	8,000		
495	230000	VRF air cooled condenser 18 ton	1	ea	32625.00	32,625		
496	230000	HVAC equipment	11,733	gsf	1.00	11,733		
497	230000	<u>Air distribution</u>						
498	230000	ERV 1550 CFM	1	ea	15500.00	15,500		
499	230000	Air distribution equipment	11,733	sf	0.75	8,800		
500	230000	<u>Sheet metal & Accessories</u>						
501	230000	Galvanized steel ductwork	10,500	lb	15.00	157,500		
502	230000	Duct insulation	5,500	sf	5.00	27,500		
503	230000	GRD's	78	ea	125.00	9,750		
504	230000	Louvers	6.48	sf	350.00	2,268		
505	230000	Sheet metal accessories	1	ls	10000.00	10,000		
506	230000	<u>Piping</u>						
507	230000	<u>Refrigerant Piping</u>						
508	230000	Refrigerant piping	1,700	lf	32.00	54,400		
509	230000	<u>Condensate Drain Piping</u>						
510	230000	Condensate drain piping with fittings & hangers	800	lf	24.00	19,200		
511	230000	<u>Piping Insulation</u>						
512	230000	Piping insulation	2,500	lf	10.00	25,000		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
513	230000							
	<u>Automatic Temperature Controls</u>							
514	230000							
	Automatic temperature controls DDC	11,733	gsf	6.00	70,398			
515	230000							
	<u>Balancing</u>							
516	230000							
	System testing & balancing	11,733	gsf	1.50	17,600			
517	230000							
	<u>Miscellaneous</u>							
518	230000							
	Demolition	1	ls	10000.00	10,000			
519	230000							
	Coordination & BIM	1	ls	16000.00	16,000			
520	230000							
	Commissioning support	1	ls	8000.00	8,000			
521	230000							
	Coring, sleeves & fire stopping	1	ls	5000.00	5,000			
522	230000							
	Equipment start-up and inspection	1	ls	2500.00	2,500			
523	230000							
	Rigging & equipment rental	1	ls	12000.00	12,000			
524	230000							
	Vibration & seismic restraints	1	ls	5000.00	5,000			
525								
	SUBTOTAL					570,494		
526								
527	TOTAL - HVAC							\$570,494
528								
529								
530	26 - ELECTRICAL							
531								
532	260000 ELECTRICAL							
533								
534	NORMAL POWER							
535	260000							
	<u>Normal Power</u>							
536	260000							
	Meter socket	1	ea	350.00	350			
537	260000							
	800A CT/ Main Service section 120/208v	1	ea	10,500.00	10,500			
538	260000							
	800A Distribution Panel 120/208v	1	ea	8,500.00	8,500			
539	260000							
	225A panelboard	3	ea	2,350.00	7,050			
540	260000							
	800A feed					Site Work		
541	260000							
	225A feed (allow)	200	lf	50.00	10,000			
542	260000							
	Service grounding	1	ls	2,500.00	2,500			
543	260000							
	EMERGENCY POWER							
544	260000							
	Emergency ballast (per BER)					See Below		
545	260000							
	Emergency generator including transfer switch & fuel storage tank - allowance for 150kw	1	ls	150,000.00	150,000			
546	260000							
	Mechanical Equipment							
547	260000							
	Elevator 40HP 208v circuit & connection	1	ea	3,500.00		w/ Addition		
548	260000							
	Elevator cab power & light circuit & connection	1	ea	1,500.00		w/ Addition		
549	260000							
	Multi zone heat pump 15A 2P 208v circuit & connection	14	ea	450.00	6,300			
550	260000							
	VRF unit circuit & connection	14	ea	2,500.00	35,000			
551	260000							
	ACCU-208v circuit & connection	1	ea	2,500.00	2,500			
552	260000							
	ERV-1 110A 208v circuit & connection	1	ea	3,500.00	3,500			
553	260000							
	EWB-1 20A 2p 208v circuit & connection	1	ea	450.00	450			
554	260000							
	DCC-1 20A 2p 208v circuit & connection	1	ea	450.00	450			
555	260000							
	Duplex sewage pump circuit & connection	1	ea	1,500.00	1,500			
556	260000							
	Misc equipment feed and connections	1	ea	2,500.00	2,500			
557	260000							
	SUBTOTAL					241,100		
558								
559	LIGHTING & POWER							
560	260000							
	Lighting Fixtures							
561	260000							
	Type A	124	ea	180.00	22,320			
562	260000							
	Type AE (Emergency ballast)	10	ea	280.00	2,800			
563	260000							
	Type B	30	ea	300.00	9,000			



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTION B							
564	260000 Type BE (Emergency ballast)	33	ea	400.00	13,200		
565	260000 Type C	1	ea	180.00	180		
566	260000 Type CE (Emergency ballast)	1	ea	280.00	280		
567	260000 Type D 8'	1	ea	650.00	650		
568	260000 Type LED Exit	16	ea	180.00	2,880		
569	260000 Pit light	1	ea	150.00	150		
570	260000 Lighting not shown at this scope level	11,733	gsf	1.50	17,600		
571	260000 Lighting control panel	1	ea	2,500.00	2,500		
572	260000 Digital Lighting control system with sensors and switches (not shown at this scope level)	11,733	gsf	1.50	17,600		
573	260000 Duplex receptacle	139	ea	24.50	3,406		
574	260000 Duplex receptacle in floor box	3	ea	24.50	74		
575	260000 Double duplex receptacle	33	ea	48.00	1,584		
576	260000 GFI duplex receptacle	14	ea	39.50	553		
577	260000 GFI duplex receptacle WP	3	ea	49.50	149		
578	260000 Poke thru devices	5	ea	450.00	2,250		
579	260000 Device box	550	ea	28.00	15,400		
580	260000 2" PVC	20	lf	12.00	240		
581	260000 3/4" EMT	500	lf	7.00	3,500		
582	260000 3/4" PVC	40	lf	6.00	240		
583	260000 #12 THHN	2,500	lf	0.85	2,125		
584	260000 12-2 MC cable	8,000	lf	4.00	32,000		
585	260000 12-2 MC cable	2,500	lf	4.75	11,875		
586	260000 SUBTOTAL					162,556	
587							
588	COMMUNICATION & SECURITY SYSTEMS						
589	260000 <u>Fire Alarm</u>						
590	260000 FACP	1	ea	7,500.00	7,500		
591	260000 LCD annunciator	1	ea	1,500.00	1,500		
592	260000 Graphic map	1	ea	750.00	750		
593	260000 Radio Master box and antenna	1	ea	8,500.00	8,500		
594	260000 Beacon	1	ea	225.00	225		
595	260000 Knox box	1	ea	600.00	600		
596	260000 Initiating device	32	ea	135.00	4,320		
597	260000 CO detector	1	ea	135.00	135		
598	260000 Duct detector & remote test switch	1	ea	425.00	425		
599	260000 AV device	13	ea	115.00	1,495		
600	260000 Visual device	5	ea	105.00	525		
601	260000 Elevator recall connection	1	ea	225.00	w/ Addition		
602	260000 Control/monitor module	10	ea	135.00	1,350		
603	260000 Device box	65	ea	28.00	1,820		
604	260000 FA MC cable	1,950	lf	4.50	8,775		
605	260000 <u>Bi-Directional System</u>						
606	260000 BDA system	1	ls	15,000.00	NR		
607	260000 <u>Security System</u>						
608	260000 Head end	1	ls	15,000.00	15,000		
609	260000 Camera (PTZ)	1	ea	1,200.00	1,200		
610	260000 Camera (Stationary)	1	ea	750.00	750		
611	260000 Camera (WP)	8	ea	950.00	7,600		
612	260000 Card reader	2	ea	350.00	700		
613	260000 Keypad	2	ea	350.00	700		
614	260000 Glass break detector	28	ea	250.00	7,000		
615	260000 Motion sensor	6	ea	200.00	1,200		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
616	260000 Device box	50	ea	28.00	1,400			
617	260000 3/4" EMT	1,500	lf	7.00	10,500			
618	260000 Cabling	7,500	lf	1.20	9,000			
619	260000 <u>Telephone/Data/CATV</u>							
620	260000 MDF closet Fit -Out	1	ls	6,500.00	6,500			
621	260000 Network switching, PBX (by owner per BTC)					By owner		
622	260000 1-port device	3	ea	22.00	66			
623	260000 2-port device	37	ea	44.00	1,628			
624	260000 2-port device (AV)	4	ea	44.00	176			
625	260000 WAP	13	ea	500.00	6,500			
626	260000 Cat. 6 cable	16,000	lf	1.20	19,200			
627	260000 Device box with conduit stub to ceiling	44	ea	120.00	5,280			
628	260000 Cable tray	30	lf	60.00	1,800			
629	260000 4" sleeves	2	ea	225.00	450			
630	260000 <u>Public Address/Clock System</u>							
631	260000 Public Address/Clock System (NIC per BTC)					NIC		
632	260000 <u>Audio Visual</u>							
633	260000 AV equipment					By Others		
634	260000 AV control panel	2	ea			By Others		
635	260000 Rough-In: conduit, backboxes & 120V power	6	ea	450.00	2,700			
636	260000 Projector screen feed and connction	1	ea	450.00	450			
637	260000 AV rough-in	11,733	gsf	0.50	5,867			
638	260000 <u>Sound system in Meeting room only</u>							
639	260000 Amplifier, (9) speakers and cabling	1	ls	7,500.00	7,500			
640	260000 SUBTOTAL					151,087		
641								
642	OTHER ELECTRICAL SYSTEMS							
643	260000 <u>Miscellaneous</u>							
644	260000 Lightning protection	1	ls	13,000.00	13,000			
645	260000 Seismic					NIC		
646	260000 Demolition and make safe	1	ls	10,000.00	10,000			
647	260000 Extra materials (per spec)	1	ls	2,500.00	2,500			
648	260000 Temp power and lights	1	ls	7,500.00	7,500			
649	260000 Rigging	1	ls	10,000.00	10,000			
650	260000 Fire stopping	1	ls	1,500.00	1,500			
651	260000 Arc flash/Testing and studies	1	ls	2,500.00	2,500			
652	260000 Coordination, BIM	1	ls	7,500.00	7,500			
653	260000 Fees & Permits	1	ls	6,000.00	6,000			
654	260000 SUBTOTAL					60,500		
655								
656	TOTAL -ELECTRICAL							\$615,243
657								
658	31 EARTHWORK							
659								
660								
661	312000 EARTH WORK							
662	312000 <u>Entry Stair</u>							
663	312000 Excavation	27	cy	20.00	540			
664	312000 Store on site	27	cy	15.00	405			
665	312000 Backfill with existing material	21	cy	12.00	252			
666								
667	312000 <u>Vault - by hand</u>							
668	312000 Excavate & remove for new Vault slab	19	cy	150.00	2,850			
669	312000 Compacted granular fill, 12"	9	cy	45.00	405			
670	312000 Compact sub-grade	250	sf	1.00	250			



Hamilton Town Hall
Hamilton, MA
Preservation Design Project - Option B

30-Aug-19

GFA 11,733

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B								
671								
672	<u>Excavation for new perimeter drainage</u>							
673	312000 Excavation	415	cy	45.00	18,675			
674	312000 Store on site	415	cy	15.00	6,225			
675	312000 Backfill with existing material	415	cy	20.00	8,300			
676	312000 Perimeter drain	311	lf	22.00	6,842			
677						44,744		
678								
679	TOTAL, DIVISION 31 - EARTHWORK							\$44,744



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

GROSS FLOOR AREA CALCULATION

Basement Floor	400
First Floor	360
Second Floor	360

TOTAL GROSS FLOOR AREA (GFA)	1,120 sf
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02 - EXISTING CONDITIONS

024100 DEMOLITION	-
SUBTOTAL	-
025000 SELECTIVE DEMOLITION	
W/ renovation	
SUBTOTAL	-
025100 HAZARDOUS ABATEMENT	
SUBTOTAL	-

TOTAL - DEMOLITION

03 - CONCRETE

033000	<u>Elevator pit walls; 12" thick</u>						
033000	Formwork	400	sf	20.00	8,000		
033000	Re-bar; #4 @ 12" EWEF	800	lbs.	1.50	1,200		
033000	Concrete material; 4,000 psi	8	cy	140.00	1,120		
033000	Placing concrete	8	cy	75.00	600		
033000	<u>Elevator pit slab; 15" thick</u>						
033000	Formwork	50	sf	20.00	1,000		
033000	Re-bar; #6 @ 9" T+B EW	960	lbs.	1.50	1,440		
033000	WWF reinforcing	138	lbs.	1.00	138		
033000	Concrete material; 4,000 psi	7	cy	140.00	980		
033000	Placing concrete	7	cy	75.00	525		
033000	Premium for sump pit; 18"x18"x18"	1	ea	750.00	750		
033000	Dewatering, allow	1	ls	5,000.00	5,000		
	<u>Basement Walls</u>						
033000	Formwork	1,530	sf	20.00	30,600		
033000	Re-bar	4,590	lbs	1.20	5,508		
033000	Concrete material; 3,000 psi	35	cy	125.00	4,375		
033000	Placing concrete	35	cy	200.00	7,000		
033000	<u>Slab on grade</u>						
033000	Vapor barrier	360	sf	1.00	360		
033000	Mesh reinforcing 15% lap	360	sf	1.20	432		
033000	Concrete - 5" thick	5	cy	125.00	625		
033000	Placing concrete	5	cy	45.00	225		
033000	Finishing and curing concrete	360	sf	4.00	1,440		
033000	Control joints - saw cut	360	sf	0.10	36		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B - ADDITION								
55	033000							
	<u>Upper Floors</u>							
56	033000	828	sf	1.20	994			
57	033000	13	cy	140.00	1,820			
58	033000	720	sf	5.00	3,600			
59	033000	216	lbs	1.20	259			
60								
61	033000	2	flt	500.00	1,000			
62						79,027		
63								
64	TOTAL - CONCRETE							\$79,027
65								
66								
67	04 - MASONRY							
68								
69	042000	700	sf	65.00	45,500			
70								
71								
	<u>Interior Walls</u>							
72	042000	1,482	sf	30.00	44,460			
73						89,960		
74								
75	TOTAL - MASONRY							\$89,960
76								
77								
78	05 - METALS							
79								
80	051000							
	STRUCTURAL STEEL							
81								
	<u>Upper floor</u>							
82	051000	6	tns	5,000.00	30,000			
83	051000	144	ea	2.50	360			
84	051000	720	sf	4.00	2,880			
85								
	<u>Roof</u>							
86	051000	3	tns	5,000.00	15,000			
87	051000	360	sf	4.00	1,440			
88						49,680		
89								
90	054000							
	COLD FORM METAL FRAMING							
91	054000	1,444	sf	14.00	20,216			
92						20,216		
93								
94	055000							
	METAL FABRICATIONS							
95	055000	2	flt	35,000.00	70,000			
96	055000	1	ea	1,500.00	1,500			
97	055000	1	ea	2,500.00	2,500			
98	055000	28	lf	25.00	700			
99	055000	1,120	gsf	1.50	1,680			
100						76,380		
101								
102	TOTAL - METALS							\$146,276
103								



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

104

105

06 - WOOD, PLASTICS AND COMPOSITES

106

107

060312 HISTORIC WOOD REPAIR

108

060312	Exterior fiber cement siding to match existing	744	sf	40.00	29,760		
	SUBTOTAL					29,760	

109

110

111

061000 ROUGH CARPENTRY

112

061000	Exterior wall sheathing	1,444	sf	3.00	4,332		
061000	Wood blocking at exterior opes	80	lf	6.00	480		
061000	Wood blocking throughout	1,120	gsf	1.00	1,120		
	SUBTOTAL					5,932	

115

116

117

064020 ARCHITECTURAL WOODWORK

118

064100	WB-1; Wood base, to match historic, 6 3/4"	150	lf	14.00	2,100		
064100	Wood paneling/trim at new walls to match existing - allowance	1,120	gsf	6.00	6,720		
	SUBTOTAL					8,820	

120

121

122

066600 FIBERGLASS ARCHITECTURAL ELEMENTS

123

	SUBTOTAL					-	
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124

125

TOTAL - WOOD, PLASTICS AND COMPOSITES \$44,512

126

127

128

07 - THERMAL AND MOISTURE PROTECTION

129

130

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

131

070001	Metallic waterproofing at elevator pit	350	sf	14.00	4,900		
070001	Waterproofing to basement walls	765	sf	10.00	7,650		
070001	Drainage board at basement wall	765	sf	3.00	2,295		
070001	Air barrier/flashing at exterior opes	80	lf	6.25	500		
070001	Air barrier/flashing at exterior wall	1,444	sf	6.25	9,025		
070001	Miscellaneous sealants to closure	1,444	sf	1.00	1,444		
070001	Miscellaneous sealants throughout building	1,120	gsf	0.50	560		
	SUBTOTAL					26,374	

138

139

140

070002 ROOFING AND FLASHING

141

070002	<u>Flat roof</u>						
070002	New EPDM roofing membrane	360	sf	12.00	4,320		
070002	Protection board	360	sf	3.00	1,080		
070002	6" Rigid insulation	360	sf	8.00	2,880		
070002	Reinforced vapor barrier	360	sf	2.50	900		
070002	Perimeter aluminum edge and flashings	71	lf	50.00	3,550		
070002	Elevator ventilation unit	1	ea	3,500.00	3,500		
	SUBTOTAL					16,230	

148

149

150

072100 THERMAL INSULATION

151

072100	Rigid insulation; 2" thick at new slab on grade	360	sf	2.25	810		
072100	Insulation at foundations, 2" rigid	765	sf	3.00	2,295		
	<u>Exterior</u>						
072100	Insulation	1,444	sf	5.00	7,220		
	SUBTOTAL					10,325	

155



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

156

157 **078400 FIRESTOPPING/ FIREPROOFING**

158 078400 Fireproofing to columns and beams 1,080 sf 2.50 2,700

159 078400 Fire stopping floors 1 ls 500.00 500

160 SUBTOTAL 3,200

161

162 **079500 EXPANSION JOINTS**

163 079500 Expansion joints - allowance 1 ls 7,500.00 7,500

164 SUBTOTAL 7,500

165

TOTAL - THERMAL AND MOISTURE PROTECTION							\$63,629
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167

168

08 - OPENINGS							
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169

171 **081100 DOORS, FRAMES AND HARDWARE**

172 SUBTOTAL -

173

174 **083100 ACCESS DOORS AND FRAMES**

175 SUBTOTAL -

176

177 **085200 WINDOWS**

178 85200 Fire rated curtainwall 468 sf 220.00 102,960

179 85200 Single leaf entry door 1 ea 4,500.00 4,500

180 SUBTOTAL 107,460

181

182 **087100 DOOR HARDWARE**

183 087100 Auto door opener 1 ea 3,000.00 3,000

184 SUBTOTAL 3,000

185

186 **088000 GLASS AND GLAZING**

187 SUBTOTAL -

188

189 **089000 FIXED LOUVERS**

190 SUBTOTAL -

191

TOTAL - OPENINGS							\$110,460
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192

193

09 - FINISHES							
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194

197 **090560 COMMON WORK RESULTS FOR FLOORING**

198 Included w/ 033000 concrete

199 SUBTOTAL -

200

201 **090002 TILE**

202 SUBTOTAL -

203

204 **090003 ACT**

205 090003 ACT ceilings 672 sf 7.00 4,704

206 SUBTOTAL 4,704



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

207

208 **090005 RESILIENT FLOORS**

209	090005	Rubber to egress stair	230	lfr	22.00	5,060	
210	090005	Rubber to landings	100	sf	12.00	1,200	
211	090005	Linoleum	672	sf	7.50	5,040	

212		SUBTOTAL					11,300
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213

214 **090007 PAINTING**

215	090007	Paint to walls	1,444	sf	0.95	1,372	
216	090007	Paint to staircases	2	flt	1,250.00	2,500	
217	090007	Interior painting/touch-up	1,120	gsf	0.50	560	

218		SUBTOTAL					4,432
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219

220 **091230 PLASTER PATCHING AND REPAIR**

221		SUBTOTAL					-
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222

223 **092900 GWB**

224 Interior Partitions

225	092900	Drywall lining to interior face of stud backup at exterior wall	1,444	sf	3.50	5,054	
226	092900	Furring to interior face of basement wall	765	sf	5.00	3,825	

227		SUBTOTAL					8,879
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228

229 **096560 WOOD FLOORING**

230		SUBTOTAL					-
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231

232 **096810 TILE CARPETING**

233	96810	Walk-off carpet tile in vestibules	40	sf	20.00	800	
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234		SUBTOTAL					800
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235

236	TOTAL - FINISHES						\$30,115
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237

238

239 **10 - SPECIALTIES**

240

241 **101400 SIGNAGE**

242	101400	Signage - allowance	1	ls	2,000.00	2,000	
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243		SUBTOTAL					2,000
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244

245 **104400 FIRE PROTECTION SPECIALTIES**

246	104400	Fire extinguisher cabinets	3	ea	350.00	1,050	
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247		SUBTOTAL					1,050
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248

249	TOTAL - SPECIALTIES						\$3,050
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250

251

252 **11 - EQUIPMENT**

253

254		SUBTOTAL					
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255

256	TOTAL - EQUIPMENT						
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257

258



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

259 **12 - FURNISHINGS**

260							
261	122410 WINDOW TREATMENT						
262	SUBTOTAL					-	

263							
264	123000 FIXED CASEWORK						
265	SUBTOTAL					-	

266							
267	124810 ENTRANCE MATS						
268	Included w/ Carpet						
269	SUBTOTAL					-	

270

271 **TOTAL - FURNISHINGS**

272

273

274 **14 - CONVEYING SYSTEMS**

275							
276	144000 ELEVATORS						
277	Holeless hydraulic elevator, 4 stop, double sided	1	ea	220,000.00	220,000		
278	SUBTOTAL					220,000	

279

280 **TOTAL - CONVEYING** **\$220,000**

281

282

283 **21 - FIRE SUPPRESSION**

284							
285	210000 FIRE PROTECTION						
286	New sprinkler system	1,120	gsf	5.00	5,600		
287	SUBTOTAL					5,600	

288

289 **TOTAL - FIRE SUPPRESSION** **\$5,600**

290

291

292 **22 - PLUMBING**

293							
294	220000 PLUMBING						
295	Roof drainage	1	ls	5,000.00	5,000		
296	SUBTOTAL					5,000	

297

298 **TOTAL - PLUMBING** **\$5,000**

299

300

301 **23 - HVAC**

302							
303	230000 HVAC						
304	Miscellaneous HVAC work	1,120	gsf	50.00	56,000		
305	Machine room split system	1	ls	10,000.00	10,000		
306	SUBTOTAL					66,000	

307

308 **TOTAL - HVAC** **\$66,000**

309

310



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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OPTION B - ADDITION

311 **26 - ELECTRICAL**

312

313 **260000 ELECTRICAL**

314

315 **NORMAL POWER**

316 260000 Normal Power

317 260000 Service and distribution **1,120** gsf 11.00 12,320

318 260000 Equipment Wiring

319 260000 Equipment wiring allowance **1,120** gsf 2.25 2,520

320 260000 SUBTOTAL 14,840

321

322 **LIGHTING & POWER**

323 260000 Lighting & Branch Power

324 260000 Lighting allowance (LED) **1,120** gsf 9.00 10,080

325 260000 Lighting controls

326 260000 Lighting controls, local, daylight sensing and dimming **1,120** gsf 1.00 1,120

327 260000 Lighting and branch circuitry

328 260000 Branch & lighting circuitry **1,120** gsf 5.50 6,160

329 260000 SUBTOTAL 17,360

330

331 **COMMUNICATION & SECURITY SYSTEMS**

332 260000 Fire Alarm

333 260000 Fire alarm system **1,120** gsf 3.00 3,360

334 260000 Security System **1,120** gsf 5.00 5,600

335 260000 Telephone/Data/CATV

336 260000 Telecommunications rough in & devices and cabling **1,120** gsf 4.00 4,480

337 260000 SUBTOTAL 13,440

338

339 **OTHER ELECTRICAL SYSTEMS**

340 260000 Miscellaneous

341 260000 Fees & Permits **1** ls 2,000.00 2,000

342 260000 SUBTOTAL 2,000

343

344 **TOTAL -ELECTRICAL \$47,640**

345

346

347 **31 EARTHWORK**

348

349 **312000 EARTH WORK**

350 316600 Underpinning at existing foundation wall **1** ls 35,000.00 35,000

351 312000 Strip footings to basement walls - assume 3'-0" x 1'-0"

352 312000 Excavation **26** cy 45.00 1,170

353 312000 Store on site for reuse **26** cy 10.00 260

354 312000 Backfill with existing fill **20** cy 18.00 360

355 312000 Remove excess material **6** cy 20.00 120

356 312000 Excavation for basement **385** cy 50.00 19,250

357 312000 Remove excess off-site **371** cy 45.00 16,695

358 312000 Backfill with gravel at perimeter **14** cy 40.00 560

359 312000 Foundation drainage **51** lf 22.00 1,122

360 312000

361 312000

362 312000



Hamilton Town Hall
Hamilton, MA
Preservation Design Project - Option B

30-Aug-19

GFA 1,120

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
OPTION B - ADDITION								
365 312000	Gravel fill, 12"	13	cy	45.00	585			
366	SUBTOTAL					75,122		
367	TOTAL, DIVISION 31 - EARTHWORK							\$75,122
368								



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITework - OPTION B

31 EARTHWORK

311000 SITE PREPARATION

311000	Site construction fence - 6' high chain-link fence	1,000	lf	16.00	16,000		
311000	Construction gates	1	ls	2,000.00	2,000		
311000	Construction laydown/entrance	1	ls	4,000.00	4,000		
311000	Clear and grub existing brush/trees for new new salt truck unloading entrance/roadway	1	ls	3,000.00	3,000		
311000	Demo asphalt paving; salvage for mill & repave	24,000	sf	1.20	28,800		
311000	Miscellaneous site demolition	1	ls	5,000.00	5,000		
311000	Remove abandoned septic system	600	sf	3.00	1,800		
311000	Remove electrical service to pumps	80	lf	15.00	1,200		
311000	Protect existing conditions including Memorial & trees	1	ls	10,000.00	10,000		
311000	Allowance to remove all gas pumps and utilities at DPW garage area						excluded

SITE CLEARING

312000	Strip topsoil, store onsite					N/A	
	SUBTOTAL						71,800

312000 EARTH WORK

Site Earthwork

312000	Regrading existing levels - minimal work	779	cy	4.00	3,116		
312000	Fine grading	2,337	sy	1.00	2,337		
312000	<u>Hazardous Waste Remediation</u>						
312000	Dispose/treat contaminated soils/water					NIC	
	SUBTOTAL						5,453

312500 EROSION AND SEDIMENTATION CONTROLS

312500	Silt fence/ silt sock	1,000	lf	8.00	8,000		
312500	Silt fence maintenance and monitoring	1	ls	1,500.00	1,500		
	SUBTOTAL						9,500

TOTAL, DIVISION 31 - EARTHWORK and SITE PREPARATION

\$86,753

32 EXTERIOR IMPROVEMENTS

321000 PAVING AND CURBING

320000	<u>Bituminous Paving; Mill + Pave existing paving</u>	15,500	sf				
320000	gravel base; 12" thick	574	cy	40.00		NR	
320000	asphalt; 4" thick	1,722	sy	20.00	34,440		
320000	Curbing; granite	392	lf	39.00	15,288		
320000	Curbing; precast	80	lf	28.00	2,240		
320000	Curb cuts	2	loc	900.00	1,800		

CONCRETE PAVING

	<u>Concrete Walkways - broom finish</u>	800	sf				
312000	gravel base; 6" thick	15	cy	40.00	600		
320000	concrete; 4" thick	800	sf	11.00	8,800		
320000	premium for sloped ramp	160	sf	5.00	800		
320000	New pads for condensing units	2	loc	800.00	1,600		

Entry steps

	<u>Footing; 2'x1'</u>						
033000	Formwork	60	sf	20.00	1,200		
033000	Re-bar	72	lbs.	1.50	108		
033000	Concrete material; 4,000 psi	2	cy	150.00	300		
033000	Placing concrete	2	cy	75.00	150		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITework - OPTION B

61								
	<u>Walls; 8" thick</u>							
62	033000 Formwork	336	sf	20.00	6,720			
63	033000 Re-bar; #4 @ 12"EWEF	672	lbs.	1.50	1,008			
64	033000 Concrete material; 4,000 psi	4	cy	150.00	600			
65	033000 Placing concrete	4	cy	75.00	300			
66	033000 Concrete tread/riser	60	lf	35.00	2,100			
67	033000 5" Slab on grade at landing	65	sf	15.00	975			
68	033000 Architectural concrete finish to walls, treads, risers & landing	1	ls	1,500.00	1,500			
54	SUBTOTAL					80,529		
55								
56	323000 SITE IMPROVEMENTS							
57								
58	<u>PAVEMENT MARKINGS</u>							
59	320000 Misc road markings/ hatching	1	ls	1,500.00	1,500			
60	320000 Single solid lines, 4" thick	53	space	25.00	1,325			
61								
62								
63	<u>RAILINGS/FENCES</u>							
64	323000 6' Chain-link fence	255	lf	55.00	14,025			
65	323000 24' Sliding gate	2	ea	2,500.00	5,000			
66								
67	<u>FLAGPOLES</u>							
68	Flagpole					ETR		
69								
70	<u>SITE IMPROVEMENTS</u>							
71	323000 Traffic & parking signs; reinstall salvaged	3	ea	200.00	600			
72	323000 Site signage; new "do not enter" sign etc.	1	ls	5,000.00	5,000			
73	323000 Allowance for site furnishings; benches, trash receptacles etc.	1	ls	5,000.00	deleted			
74	SUBTOTAL					27,450		
75								
76								
77	329200 LANDSCAPING							
78								
79	328400 <u>PLANTING IRRIGATION</u>							
80	329000 Irrigation					Not used		
81								
82	<u>TURF AND GRASSES</u>							
83	<u>Lawn</u>							
84	329000 Topsoil - import	88	cy	40.00	3,520			
85	329000 Planting soil & mulch at trees & shrubs	20	cy	50.00	1,000			
86	329000 Seed at lawn areas	4,730	sf	0.25	1,183			
87								
88	<u>PLANTS</u>							
89	329000 Allowance for new plantings	1	ls	15,000.00	15,000			
90	SUBTOTAL					20,703		
91								
92	TOTAL, DIVISION 32 - EXTERIOR IMPROVEMENTS							\$128,682
93								
94								
95	33 UTILITIES							
96								
97	334000 STORM DRAINAGE							
98	334000 Maintain and protect drain pipe	2	loc	500.00	1,000			
99	334000 12" Drain line	500	lf	80.00	40,000			
100	334000 WQU	3	ea	6,000.00	18,000			
101	334000 DMH	2	ea	4,200.00	8,400			
102	334000 Clean-out	6	ea	800.00	4,800			
103	334000 Roof drain connections	4	ea	500.00	2,000			
104	334000 Connecting to existing	2	loc	3,000.00	6,000			
105	SUBTOTAL					80,200		
106								
107	331000 WATER SERVICE AND FIRE MAINS							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITework - OPTION B

108	331000	6" Water/Fire line	250	lf	90.00	22,500		
109	331000	2" Domestic Water line	50	lf	65.00	3,250		
110	331000	PIV	1	ea	1,500.00	1,500		
111	331000	Connect to existing	1	loc	6,000.00	6,000		
112	331000	FD connection	1	ea	2,000.00	2,000		
113	331000	Fire hydrant	2	ea	2,300.00	4,600		
114		SUBTOTAL					39,850	
115								
116		333000 SANITARY SEWERAGE						
117	333000	2" Force main; pumping station to leaching field	90	lf	110.00	9,900		
118	333000	4" DI Sewer line	15	lf	90.00	1,350		
119	333000	4" PVC line	5	lf	40.00	200		
120	333000	3000 gal Dual chamber septic tank	1	ea	20,000.00	20,000		
121	333000	Pump station	1	ea	6,500.00	6,500		
122	333000	Leaching bed; 20'x70', including excavation & backfill	1,400	sf	35.00	49,000		
123	333000	Distribution box	1	ea	included above			
124	333000	4" Perforated pipe, schedule 80 on 5" stone base	420	lf	included above			
125	333000	2" Pea stone cover	10	cy	included above			
126	333000	Clean-out	10	ea	included above			
127	333000	Inspection port	1	ea	included above			
128		SUBTOTAL					86,950	
129								
130		335000 GAS SERVICES						
131	335000	E&B trench for new gas pipe to building - install by plumbing	200	lf	22.00	N/A		
132	335000	Gas Meter				NIC		
133		SUBTOTAL					-	
134								
135	TOTAL, DIVISION 33 - UTILITIES							\$207,000

26 ELECTRICAL UTILITIES

ELECTRICAL UTILITIES								
<u>Civil</u>								
142	312000	Excavation & backfill:						
143	312000	Ductbanks - primary, secondary and telecom, allow	250	lf	20.00	5,000		
144	312000	Site lighting allow	500	lf	10.00	5,000		
145	312000	Concrete:						
146	312000	Ductbanks - primary, secondary and telecom, allow	250	lf	14.00	3,500		
147	312000	Transformer pad	1	ea	2,500.00	2,500		
148	312000	Pole base	7	ea	500.00	3,500		
149		<u>Site Demolition</u>						
150	260000	Site demolition and make safe	1	ls	2,000.00	2,000		
151		<u>Power</u>						
152	260000	Utility co. back charges (Allowance per BER)	1	ls	20,000.00	20,000		
153	260000	New riser (electrical)	1	ea	1,000.00	1,000		
154	260000	Primary service ductbank, 2-4" empty, allow	110	lf	45.00	4,950		
155	260000	Pad mounted transformer					By Utility Co.	
156	260000	Secondary service ductbank with 800A feeder including (1) spare 4" conduit, allow	30	lf	430.00	12,900		
157		<u>Communications</u>						
158	260000	New riser	1	ea	1,200.00	1,200		
159	260000	Telecom ductbank 4-4", empty, allow	110	lf	90.00	9,900		
160		<u>Site Lighting (allow)</u>						
161	260000	Pole light (allowance per BER)	7	ea	2,500.00	17,500		
162	260000	Pole base grounding	7	ea	200.00	1,400		
163	260000	Site lighting circuitry	500	lf	12.00	6,000		
164		SUBTOTAL					96,350	
165								
166	TOTAL, DIVISION 26 - ELECTRICAL UTILITIES							\$96,350



<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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SITework - OPTION B

167

168

TOTAL - SITE DEVELOPMENT							\$518,785
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