



EvCC AMTEC Phase 2: Complete Build-out  
 SUMMARY OF WORK COST ESTIMATE  
 August 6, 2015

<b>ESTIMATE OF BASE BID CONSTRUCTION COSTS</b>		<b>\$1,202,298</b>
Allowance for Equipment/Furnishings/Technology		<b>\$275,000</b>
<b>Subtotal</b>		<b>\$1,477,298</b>
Escalation (at 0%)		\$0
<b>Subtotal</b>		<b>\$1,477,298</b>
<b>Soft Costs Summary</b>		
Contingencies (construction)	10.00%	
Design Services (allowance)	16.00%	
Testing	0.30%	
Sales Tax	9.20%	
Permitting	0.50%	
Project Management	3.00%	
	<b>39.00%</b>	<b>\$576,146</b>
<b>TOTAL PPROJECT COSTS</b>		<b>\$2,053,444</b>
		<b>\$121.46</b>

**ADDITIVE ALTERNATES**

**Replace Carpet at classrooms**

Carpet demo	6,800 sf	\$1.20	\$8,160
New carpet	6,800 sf	\$3.50	\$23,800
Remove carpet patching	(400.00) lf	12.00	(\$4,800)
<b>Subtotal</b>			<b>\$27,160</b>
Mark-ups and General Requirements		20.00%	\$5,432
<b>Total Add Alternate 1</b>			<b>\$32,592</b>

**Add Sectional Door at the West Entry to the CNC Lab**

Demo wall	120 sf	\$2.00	\$240
Sectional door	120 sf	\$40.00	\$4,800
Cutting and patching	1.00 allow	2,000.00	\$2,000
<b>Subtotal</b>			<b>\$7,040</b>
Mark-ups and General Requirements		20.00%	\$1,408
<b>Total Add Alternate 2</b>			<b>\$8,448</b>

PROJECT: EvCC AMTEC PHASE 2: Complete Buildout  
 NEW SF:  
 EXIST SF: 16,907  
 EST TYPE: Preliminary  
 DATE: 8/6/2015

**ESTIMATE  
 SUMMARY  
 SHEET**

**DIVISION SUMMARY**

<b>DIV #</b>	<b>DESCRIPTION</b>		<b>cost/sf</b>
01 00 00	General Conditions	113,500	\$6.71
02 70 00	Demolition	\$46,292	\$2.74
03 30 00	Misc Concrete	\$4,725	\$0.28
06 40 00	Misc Carpentry	\$8,000	\$0.47
07 70 00	Misc Exterior Penetrations	\$10,000	\$0.59
08 10 00	Doors and frames	\$45,000	\$2.66
08 40 00	Exterior windows	\$29,400	\$1.74
09 26 00	Partition walls	\$66,085	\$3.91
09 31 00	Flooring	\$15,333	\$0.91
09 51 00	Acoustical ceilings	\$27,300	\$1.61
09 90 00	Painting	\$7,480	\$0.44
10 00 00	Interior specialties	\$28,720	\$1.70
12 00 00	Furnishings	\$6,560	\$0.39
Mechanical	Mechanical costs	\$347,150	\$20.53
Electrical	Electrical costs	\$340,515	\$20.14
<b>ESTIMATE SUBTOTAL</b>		<b>\$982,559</b>	<b>3.00%</b>
Joint occupancy and site complications		\$29,477	
<b>SUBTOTAL</b>		<b>\$1,012,035</b>	
GC O&P @		\$80,963	8.00%
<b>SUBTOTAL</b>		<b>\$1,092,998</b>	
DESIGN CONTINGENCY @		\$109,300	10.00%
<b>TOTALS</b>		<b>\$1,202,298</b>	<b>\$64.83</b>

TOTAL ESTIMATED CONSTRUCTION COST

**EXCLUSIONS:**

STATE SALES TAX  
 TESTING AND INSPECTIONS  
 CONSTRUCTION CONTINGENCY  
 ARCHITECT/ENGINEERING FEES

**DETAILED  
ESTIMATE  
BREAKDOWN**

PROJECT : EvCC AMTEC PHASE 2: Complete Buildout  
 NEW SF : 0  
 EXIST SF : 16,907  
 EST TYPE : Preliminary  
 DATE : 8/6/2015

Section	description	QTY.	U/M	UNIT COST	SUB-TOTALS	TOTALS
01 00 00	<b>General Requirements</b>					
	Supervision (at 75% of contract time)	780	hrs	\$75.00	\$58,500.00	
	Equipment and rentals	1	ls	\$25,000.00	\$25,000.00	
	Office support	6	months	\$5,000.00	\$30,000.00	<b>\$113,500</b>
02 70 00	<b>Demolition</b>					
	Temporary Protections	1	ls	\$500.00	\$500.00	
	Temporary shoring (ext roll-up door)	1	ls	\$1,000.00	\$1,000.00	
	Demo partition walls	6,000	sf	\$2.00	\$12,000.00	
	Demo carpet and base	5,600	sf	\$1.20	\$6,720.00	
	Demo ceilings	13,349	sf	\$0.75	\$10,011.75	
	Demo for overhead door	200	sf	\$20.00	\$4,000.00	
	Demo for exterior windows	420	sf	\$20.00	\$8,400.00	
	Demo wall for CNC modifications	120	sf	\$4.00	\$480.00	
	Demo for exterior mandoor	24	sf	\$20.00	\$480.00	
	Remove/salvage doors	18	ea	\$150.00	\$2,700.00	<b>\$46,292</b>
03 30 00	<b>Misc Concrete</b>					
	Houskeeping pads	12	sf	\$16.00	\$192.00	
	Allowance for floor sealing and hardening	1,295	sf	\$3.50	\$4,532.50	<b>\$4,725</b>
06 40 00	<b>Misc Carpentry</b>					
	Roof framing an mech openings	1	allow	\$5,000.00	\$5,000.00	
	Plywood backer panels	1	allow	\$1,000.00	\$1,000.00	
	Misc blocking in walls	1	allow	\$2,000.00	\$2,000.00	<b>\$8,000</b>
07 70 00	<b>Misc Exterior Penetrations</b>					
	Roof patching	1	ls	\$5,000.00	\$5,000.00	
	Caulking	1	ls	\$5,000.00	\$5,000.00	<b>\$10,000</b>
08 10 00	<b>Doors and frames</b>					
	New exterior sectional overhead door	200	sf	\$40.00	\$8,000.00	
	New exterior door	1	ea	\$2,000.00	\$2,000.00	
	New interior doors (pair of doors)	2	ea	\$2,000.00	\$4,000.00	
	Revise hardware for existing doors	8	ea	\$500.00	\$4,000.00	
	Revise hardware for relocated doors	14	ea	\$500.00	\$7,000.00	
	Install relocated doors	14	ea	\$250.00	\$3,500.00	
	Allowance for relites	12	ea	\$250.00	\$3,000.00	
	Allowance for new doors and frames (if swings don't match)	4	ea	\$1,500.00	\$6,000.00	
	Re-locate existing interior doors	15	ea	\$500.00	\$7,500.00	<b>\$45,000</b>

**DETAILED  
ESTIMATE  
BREAKDOWN**

08 40 00	<b>Exterior windows</b>						
	Storefront windows	420	sf	\$70.00	\$29,400.00	\$29,400	
09 26 00	<b>Partition walls</b>						
	New 3 5/8" metal stud framing	5,400	sf	\$4.00	\$21,600.00		
	New stud framing at Phase I compressor	300	sf	\$4.00	\$1,200.00		
	New metal stud framing above existing walls (lab area)	1,000	sf	\$8.00	\$8,000.00		
	Finished GWB at partition walls	10,800	sf	\$2.00	\$21,600.00		
	Finished GWB at Compressor room	600	sf	\$2.00	\$1,200.00		
	GWB layer at lab walls (extending from floor to roof structure)	2,500	sf	\$2.25	\$5,625.00		
	Allowance for misc cutting and patching	1	ls	\$5,000.00	\$5,000.00		
	GWB at Phase I demising wall for sound (unfinished)	1,240	sf	\$1.50	\$1,860.00	\$66,085	
09 31 00	<b>Flooring</b>						
	Allowance for floor sealing and hardening	1,295	sf	\$3.50	\$4,532.50		
	Misc flooring specialties	1	allow	\$6,000.00	\$6,000.00		
	Patch carpeting at partition wall removal	400	lf	\$12.00	\$4,800.00	\$15,333	
09 51 00	<b>Acoustical ceilings</b>						
	Acoustical ceilings	9,100	sf	\$3.00	\$27,300.00	27,300	
09 90 00	<b>Painting</b>						
	GWB walls	2,480	ea	\$1.00	\$2,480.00		
	Doors and relites	1	ls	\$5,000.00	\$5,000.00	\$7,480	
10 00 00	<b>Interior specialties</b>						
	Whiteboards	672	sf	\$10.00	\$6,720.00		
	Projector screens	10	ea	\$1,000.00	\$10,000.00		
	Projector mounts	10	ea	\$600.00	\$6,000.00		
	misc interior specialties	1	allow	\$5,000.00	\$5,000.00		
	Custodial room specialties	1	set	\$1,000.00	\$1,000.00	\$28,720	
12 00 00	<b>Furnishings</b>						
	Roller shades	420	sf	\$8.00	\$3,360.00		
	Casework	16	lf	\$200.00	\$3,200.00	\$6,560	
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	<b>SUBTOTAL - DIRECT COST</b>					<b>\$294,894</b>	

<b>Bogard Engineers, PS</b>		Bothell, Washington				<b>COST ESTIMATE</b>		
<b>Consulting Engineers</b>								
Job Name	<b>AMTEC Phase II Phase 3 Build-out</b>	Basis for Estimate		Estimated by		BE Job Number		
		<input checked="" type="checkbox"/> No Design Completed		LWB				
Description	<b>Mechanical Cost Estimate</b>	[ ] 95% CD		Checked by		Date: 8/5/2015		
		[ ] Final Design		LWB				
		[ ] Other (Specify)						
DESCRIPTION	QUANTITY		MATERIAL COST		LABOR		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL

**A. Demolition**

1.	Demo ceiling diffusers. Low pressure ductwork	<b>80</b>	<b>Hrs</b>			\$85.50	\$6,840.00		\$6,840
2.	Demo existing terminal units	<b>21</b>	<b>EA</b>			\$256.50	\$5,386.50		\$5,387
2.	Demo existing Temperature Controls	<b>24</b>	<b>Hrs</b>			\$108.30	\$2,599.20		\$2,599

**B. Equipment**

1.	Install new fan powered terminal units	<b>14</b>	<b>EA</b>	\$3,990.00	\$55,860.00	\$1,710.00	\$23,940.00		\$79,800
2.	Install new Soldering Exhaust System	<b>1</b>	<b>EA</b>	\$9,120.00	\$9,120.00	\$9,690.00	\$9,690.00		\$18,810

**C. Ductwork**

1.	Modify medium pressure ductwork to serve ner Terminal Units	<b>18065</b>	<b>SF</b>	\$1.08	\$19,564.40	\$0.86	\$15,445.58		\$35,010
2.	Install new low pressure ductwork from terminal units to GRD's	<b>18065</b>	<b>SF</b>	\$1.25	\$22,653.51	\$1.31	\$23,683.22		\$46,337
3.	Install new GRDs	<b>75</b>	<b>EA</b>	\$171.00	\$12,825.00	\$171.00	\$12,825.00		\$25,650

**D. Controls**

1.	Upgrade temperature control system	<b>10865</b>	<b>SF</b>	\$2.00	\$21,675.68	\$1.88	\$20,437.07		\$42,113
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**E. TAB**

		<b>18065</b>	<b>SF</b>	\$0.11	\$2,059.41	\$0.29	\$5,148.53		\$7,208
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**F. Plumbing Upgrades**

1.	Add new janitors sink, drains, extend water piping	<b>1</b>	<b>LS</b>	\$6,270.00	\$6,270.00	\$9,804.00	\$9,804.00		\$16,074
2.	Add compressed air system	<b>1</b>	<b>LS</b>	\$8,550.00	\$8,550.00	\$7,410.00	\$7,410.00		\$15,960

**G. Fire Sprinkler Modifications**

		<b>18065</b>	<b>SF</b>	\$0.86	\$15,445.58	\$0.74	\$13,386.17		\$28,832
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<b>Total Subcontractor Cost to General Contractor:</b>		<b>18065</b>	<b>SF</b>					\$18.30	\$330,619
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**Mechatronics Lab**  
**Tool Room**  
**Mechanical Room**  
**6 Standard Computer Lab Classrooms**  
**2 Standard Basic Classrooms**

Fire Alarm	\$ 31,000.00
Power Distributions	\$ 26,000.00
6 Computer Labs	\$ 126,000.00
2 Basic Classroom	\$ 30,000.00
Mechantronics Lab Tool Room/Mechanical Room Equipment Hook-Up	\$ 52,000.00
Added Demo	\$ 5,000.00
Office Data Drops (60)	\$ 12,000.00
Sub Total	\$ 282,000.00
Mark Up	<b>\$ 58,515</b>
Total	<b>\$ 340,515</b>