Marlin E. Buckley, P.C.® Building Experts

360 East Elm Street Conshohocken, PA 19428 888-419-7770 866-899-7387 fax www.buckleypc.com



Marlin E. Buckley Managing Principal

Client: Very Reputable General Contractor **Address:**

MEBPC Project No. : 049-01602 Bid Due Date: August 8, 2006 Time: 3:00 PM Delivery: Hand Deliver Bid Type: Stipulated Sum Labor: Union

Phone: Fax:

Estimator: MEB

Phone: Fax:

BASELINE 2.0 Estimate for General Construction

Owner: Academic Institution

Project: New Facilities

Calculated Base Bid Total: \$17,494,401

Final Base Bid: \$17,450,000

Bid Documents: Plans, Specs, Addenda 1 through 4 Addendum #5

Total Square Footage:91,100Cost Per Square Foot:\$192

Very Reputable General Contractor

I have made a careful review of the attached estimate and hereby authorize release of the bid.

Date:

Technical Support Services for Contractors, Owners, Attorneys, Architects, and other Construction Professionals





Base Bid Summary

CSI Trade Division

General Requirements		\$502,150
Site Work		\$1,844,280
Concrete		\$1,199,410
Masonry		\$522,989
Metals		\$933,478
Wood & Plastics		\$259,333
Moisture & Thermal Control		\$409,098
Doors, Windows, & Glazing		\$557,124
Finishes		\$1,735,660
Specialties		\$140,293
Equipment		\$49,349
Furnishings		\$0
Special Construction		\$1,724,369
Conveying Systems		\$50,000
Mechanical		\$3,337,567
Electrical		\$2,773,039
	TOTAL DIRECT COSTS:	\$16,038,138
	GC FEE:	\$1,283,051
1	TOTAL BASE ESTIMATE:	\$17,321,189
BI	UILDER'S CONTINGENCY:	\$0
	subtotal:	\$17,321,189
Ре	rformance & Payment Bonds:	\$173,212
CALCU	JLATED GRAND TOTAL :_	\$17,494,401

		Detailed	l Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
2201	EXCAVATION							\$1,403,30
	Subcontract	1	bid					+ ,,
	Bidders:							
	Quantity Survey:							
	Survey and Layout	1	LS	25,000.00	\$25,000		\$25,000	
	As-Built Drawings		LS	10,000.00	\$10,000		\$10,000	
					<i> </i>		÷••,•••	
	Erosion and Sediment Control:							
	Silt Fence	1200	LF	1.55	\$1,860		\$1,860	
	Inlet Protection		EA	310.00	\$3,720		\$3,720	
	Construction Entrance		EA					
	Stone		TN	23.25	\$2,325		\$2,325	
	Fabric		SY	1.55	\$465		\$465	
	Backhoe with Operating Engineer		DAY	1000	\$5,000		\$5,000	
	Medium Dozer with Operating Engineer		DAY	1200	\$1,200		\$1,200	
	Laborer		HRS	65.00	\$6,240		\$6,240	
	Foreman	48	HRS	75.00	\$3,600		\$3,600	
	Demolition:							
	Relocate Traffic Signs	2	EA					
	Transplant Trees		EA					
	Tree Protection Fence	1800		3.10	\$5,580		\$5,580	
	Backhoe with Operating Engineer		DAY	1,000.00	\$9,000		\$9,000	
	Laborer		HRS	65.00	\$9,360		\$9,360	
	Foreman		HRS	75.00	\$5,400		\$5,400	
	Remove Asphalt	1200	SY					
	Excavator with Operating Engineer		DAY	1,500.00	\$1,500		\$1,500	
	Dumptruck with Driver		DAY	650.00	\$1,950		\$1,950	
	Laborer		HRS	65.00	\$520		\$520	
	Foreman		HRS	75.00	\$600		\$600	
	Dumping Fees		LDS	100.00	\$1,500		\$1,500	
	Remove Fence Foundations	46	EA					
	Excavator with Operating Engineer		DAY	1,500.00	\$1,500		\$1,500	
	Dumptruck with Driver		DAT	650.00	\$650		\$650	
	Laborer		HRS	65.00	\$520		\$520	
	Foreman		HRS	75.00	\$600		\$600	
	Dumping Fees		LDS	100.00	\$200		\$200	
					+=00		+===0	
	Earthwork:							
	Stip Topsoil and Stock for Re-spread	1453		4 000 00	MO 100		#0 100	
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$2,400		\$2,400	
	Medium Loader with Operating Engineer		DAY	1,200.00	\$2,400		\$2,400	
	Dumptruck with Driver		DAY	650.00	\$3,900		\$3,900	
	Laborer		HRS	65.00	\$1,040		\$1,040	
	Foreman	16	HRS	75.00	\$1,200		\$1,200	

		Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Stip and Haul Excess Topsoil Off Site	3377	CY					
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$6,000		\$6,000	
	Medium Loader with Operating Engineer	5	DAY	1,200.00	\$6,000		\$6,000	
	Dumptruck with Driver		DAY	600.00	\$31,200		\$31,200	
	Laborer		HRS	65.00	\$2,600		\$2,600	
	Foreman		HRS	75.00	\$3,000		\$3,000	
	Dumping Fees	260	LDS	100.00	\$26,000		\$26,000	
	Basin Excavation	1500						
	Excavator w/Operator		DAY	1,500.00	\$4,500		\$4,500	
	Dumptruck with Driver		DAY	600.00	\$13,800		\$13,800	
	Laborer		HRS	65.00	\$1,560		\$1,560	
	Foreman		HRS	75.00	\$1,800		\$1,800	
	Dumping Fees	115	LDS	100.00	\$11,500		\$11,500	
			<u></u>					
	Site Cut to Fill	8737			* + * * *		* 1 * 2 * 2	
	Excavator with Operating Engineer		DAY	1,500.00	\$12,000		\$12,000	
	Dumptruck with Driver		DAY	650.00	\$29,250		\$29,250	
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$9,600		\$9,600	
	Compactor with Operating Engineer		DAY HRS	900.00 65.00	\$7,200 \$4,160		\$7,200	
	Foreman		HRS	75.00	\$4,160		\$4,160 \$4,800	
	Foreman	04	пкэ	75.00	\$4,800		\$4,800	
	Site Cut to Dispose Off Site	3283	CV					
	Excavator with Operating Engineer		DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver		DAY	650.00	\$32,500		\$32,500	
	Laborer		HRS	65.00	\$2,600		\$2,600	
	Foreman		HRS	75.00	\$3,000		\$3,000	
	Dumping Fees		LDS	100.00	\$25,200		\$25,200	
		202	200	100.00	Ψ20,200		φ20,200	
	Respread Topsoil:							
	Respread Topsoil from On Site Stockpile	1453	CY					
	Medium Loader with Operating Engineer		DAY	1,200.00	\$14,400		\$14,400	
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$14,400		\$14,400	
	Backhoe with Operating Engineer		DAY	1,000.00	\$12,000		\$12,000	
	Dumptruck with Driver		DAY	650.00	\$7,800		\$7,800	
	Laborer		HRS	65.00	\$18,720		\$18,720	
	Foreman		HRS	75.00	\$7,200		\$7,200	
	Site Utilities:							
	Sanitary Sewer							
	8" CIP SV	250		29.45	\$7,363		\$7,363	
	Fittings		LS	1,000.00	\$1,000		\$1,000	
	Trap & FAI		EA	2,325.00	\$2,325		\$2,325	
	Stone Bedding		TON	23.25	\$2,325		\$2,325	
	Shoring		LS	2,000.00	\$2,000		\$2,000	
	Traffic Protection		LS	2,000.00	\$2,000		\$2,000	
	Excavator with Operating Engineer		DAY	1,500.00	\$7,500		\$7,500	
	Medium Loader with Operating Engineer		DAY	1,200.00	\$6,000		\$6,000	
	Dumptruck with Driver		DAY	650.00	\$3,250		\$3,250	
	Laborer		HRS	65.00	\$5,200		\$5,200	
	Plumber Labor	40	HRS	96.00	\$3,840		\$3,840	

Storm Sewer Image: storm Sewer Imag			Detailed	l Est	imate				
CSI DESCRIPTION QTY MEAS UNIT TOT/ 4' CIP 259 F 10.85 \$2, 8' CIP 226 F 29.45 \$8, 10' CIP 226 F 29.45 \$8, 11' CIP 48.05 \$8, 12' CIP 148 LF 48.05 \$8, 12' CIP 148 LF 48.05 \$8, 12' CIP 12' CIP 419 LF 69.75 \$29, 53, 24' RCP 128 LF 23.25 \$3, 32, 4' RCP 860 LF 3.00.00 \$20, \$20, \$20, 35, 50, CIP Fittings 1 LS 9,500.00 \$22, \$3, 50, CIP Fittings 1 LS 3,500.00 \$22, \$2, 400.00 \$22, 52, 50, CIP Fittings 1 LS 2,000.00 \$22, \$2, 50, CIP Fittings 1 LS 2,000.00 \$22, \$2, 50, CIP Fittings 1 LS 2,000.00 \$22, \$2, 50, CIP Fittings 1 LS 2,000.00 \$22, \$2, \$2, \$2, Concert \$3, CIP Fittings 1 LS 2,000.00 \$22, \$2, \$2, \$2, Concert \$3, CIP Fittings 1 LS 2,000.00 \$22, \$2, \$2, \$2, Concert \$6, CO \$23, Z				UNIT	\$ PER			TOTAL	TOTAL BY
4* CIP 259 LF 10.85 \$2, 8* CIP 8* CIP 226 LF 224 \$8, 12* CIP 148 LF 48.05 \$8, 12* CIP 18* RCP 172 LF 23.25 \$3, 24* RCP 128 LF 23.66 \$3, 24* RCP 850 LF 31.00 \$26, 35,00.00 \$3, 35,00.00 \$3, 35,00.00 \$3, 35,00.00 \$3, 35,00.00 \$2, 35,00.00 \$2, 36,00.00 \$2, 37,00.00 \$2, 36,00 \$2, 37,00.00 \$2, 37,00 \$2, 37,00.00 \$2, 37,00.0	CSI	DESCRIPTION	QTY			TOTAL	ADJUST	ESTIMATE	CATEGORY
4" CIP 259 LF 10.85 \$2, 8" CIP 226 LF 224 \$8, 10" CIP 186 LF 48.05 \$8, 12" CIP 419 LF 69.75 \$29, 18" RCP 172 LF 23.25 \$3, 24" RCP 680 LF 31.00 \$26, CIP Fittings 1 LS 9,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$22, Excavator with Operating Engineer 35 DAY 1,500.00 \$22, Medium Loader with Operating Engineer 35 DAY 1,500.00 \$42, Dumptruck with Driver 35 DAY 1,600.00 \$22, Laborer 560 HRS 66.00 \$36, Plumber Labor 280 HR 96.00 \$25, Manoles 6 EA 3,875.00 \$24, Rip-Rap Aprons 60 TON 23.25 \$11,		Storm Sower							
6" CIP 226 LF 29.45 \$6, 10' CIP 18 LF 48.05 \$8, 12' CIP 419 LF 69.75 \$29, 18' RCP 172 LF 23.25 \$3, 21" RCP 128 LF 28.06 \$3, 24" RCP 800 LF 31.00 \$26, RCP Fittings 1 LS 9,500.00 \$9, RCP Fittings 1 LS 3,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$2, \$2, Excavator with Operating Engineer 35 DAY 1,200.00 \$2, Dumptruck with Driver 35 DAY 1,200.00 \$2, Laborer 280 HRS 96.00 \$26, Storm Structures 9 EA 2,790.00 \$25, Manoles 6 FA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$24, Dumptruck with Operating Engineer 18			259	IF	10.85	\$2,810		\$2,810	
10° CIP 186 LF 48.05 \$8, 12° CIP 419 LF 69.75 \$22, 18° RCP 172 LF 23.25 \$3, 21° RCP 128 LF 28.06 \$3, 24' RCP 850 LF 31.00 \$26, CIP Fittings 1 LS 3,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 3,500.00 \$32, Medium Loader with Operating Engineer 35 DAY 1,500.00 \$42, Dumptruck with Diver 35 DAY 1,500.00 \$22, Laborer 560 HRS 65.00 \$26, Storm Structures						\$6,656		\$6,656	
12° CIP 419 LF 69.75 \$29, 18° RCP 172 LF 23.25 \$3, 24° RCP 128 LF 28.06 \$3, 24° RCP 850 LF 31.00 \$26, CIP Fittings 1 LS 9,500.00 \$9, RCP Fittings 1 LS 3,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$2, Excavator with Operating Engineer 35 DAY 1,200.00 \$22, Dumptruck with Dirver 35 DAY 1,200.00 \$24, Dumptruck with Dirver 35 DAY 1,200.00 \$26, Laborer 280 HRS 96.00 \$26, Storm Structures						\$8,937		\$8,937	
18" RCP 172 LF 23.25 \$3, 21" RCP 128 LF 23.26 \$3, 24" RCP 128 LF 23.06 \$3, 24" RCP 850 LF 31.00 \$26, CIP Fittings 1 LS 9,500.00 \$9, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$2, Excavator with Operating Engineer 35 DAY 1,500.00 \$22, Laborer 560 HRS 65.00 \$32, Laborer 560 HRS 96.00 \$26, Vimber Labor 280 HRS 96.00 \$26, Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$44, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$21, Medium Loader with Operating Engineer						\$29,225		\$29,225	
21" RCP 128 LF 28.06 \$3, 24" RCP 850 LF 31.00 \$28, CIP Fittings 1 LS 9,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,500.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,500.00 \$22, Laborer 560 HRS 65.00 \$36, Plumber Labor 280 HRS 96.00 \$22, Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Dumptruck with Operating Engineer 18 DAY 1,200.00 \$13, Water Servic						\$3,999		\$3,999	
24" RCP 860 LF 31.00 \$26, CIP Fittings 1 LS 9,500.00 \$3, RCP Fittings 1 LS 3,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$52, Excavator with Operating Engineer 35 DAY 1,500.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,200.00 \$24, Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 650.00 \$26, Vimber Labor 280 HRS 96.00 \$26, Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,500.00 \$21, Dumptruck with Driver 18 DAY 65.00 \$13, Water Ser						\$3,591		\$3,591	
CIP Fittings 1 LS 9,500.00 \$9, RCP Fittings 1 LS 3,500.00 \$9, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$2, ZExcavator with Operating Engineer 35 DAY 1,200.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,200.00 \$42, Dumptruck with Driver 35 DAY 1,200.00 \$42, ZExcavator with Operating Engineer 35 DAY 650.00 \$22, Laborer 560 HRS 96.00 \$26, Storm Structures \$26, Storm Structures \$26, Storm Structures \$27, Manoles \$28, Endwalls 3 EA 1,550.00 \$24, Storm \$23, Stone \$23, Stone \$24, Storm \$25, Manoles \$24, Storm \$24, Storm \$25, Storm \$25, Medium Loader with Operating Engineer 18 DAY 1,500.00 \$24, Storm \$24, Storm \$25, Store \$24, Store \$25, Store \$25, Store \$25, Store \$24, Store \$25, Store \$25, Store \$26, Store \$27, Store \$25, Laborer \$26, Store \$27, Store \$22, Store \$23, St						\$26,350		\$26,350	
RCP Fittings 1 LS 3,500.00 \$3, Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,500.00 \$52, Dumptruck with Driver 35 DAY 1,200.00 \$22, Dumptruck with Driver 35 DAY 1,200.00 \$22, Laborer 560 HRS 65.00 \$36, Plumber Labor 280 HRS 96.00 \$26, Storm Structures						\$9,500		\$9,500	
Stone Bedding 900 TON 23.25 \$20, Trench Box 1 LS 2,000.00 \$2, Excavator with Operating Engineer 35 DAY 1,500.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,200.00 \$42, Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 650.00 \$22, Laborer 280 HRS 96.00 \$26, Storm Structures 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Dumptruck with Operating Engineer 18 DAY 1,200.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Medium Loader wi						\$3,500		\$3,500	
Trench Box 1 LS 2,000.00 \$2, Excavator with Operating Engineer 35 DAY 1,500.00 \$42, Medium Loader with Operating Engineer 35 DAY 1,200.00 \$42, Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 65.00 \$36, Plumber Labor 280 HRS 96.00 \$26, Storm Structures						\$20,925		\$20,925	
Excavator with Operating Engineer 35 DAY 1,500.00 \$52, Medium Loader with Operating Engineer 35 DAY 1,200.00 \$42, Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 65.00 \$36, Plumber Labor 280 HRS 96.00 \$26, Storm Structures 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Laborer 288 HRS 65.00 \$18, Plumber Labor 14 HRS 96.00 \$13, <td></td> <td></td> <td></td> <td></td> <td></td> <td>\$2,000</td> <td></td> <td>\$2,000</td> <td></td>						\$2,000		\$2,000	
Medium Loader with Operating Engineer 35 DAY 1,200.00 \$42, Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 650.00 \$26, Plumber Labor 280 HRS 96.00 \$26, Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$18, Plumber Labor 144 HRS 96.00 \$13, Water Service 3 CY 150.00 \$2, Medium Loader with Operating Engineer 8		Excavator with Operating Engineer	35	DAY		\$52,500		\$52,500	
Dumptruck with Driver 35 DAY 650.00 \$22, Laborer 560 HRS 65.00 \$36, Plumber Labor 280 HRS 96.00 \$26, Storm Structures 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$24, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Laborer 288 HRS 65.00 \$11, Laborer 288 HRS 65.00 \$13, Water Service 3 C 144 HRS 96.00 \$13, Water Service 3 COncrete 3 CY 150.00 \$2, Medium Loader with Operating Engineer 8 DAY 1,500.00 <			35	DAY		\$42,000		\$42,000	
Plumber Labor 280 HRS 96.00 \$\$26, Storm Structures 9 EA 2,790.00 \$\$25, Manoles 6 EA 3,875.00 \$\$23, Endwalls 3 EA 1,550.00 \$\$4, Rip-Rap Aprons 60 TON 23.25 \$\$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$\$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$\$21, Dumptruck with Driver 18 DAY 1,200.00 \$\$21, Laborer 288 HRS 66.00 \$\$11, Laborer 288 HRS 66.00 \$\$13, Water Service 1 LS 2,000.00 \$\$2, Concrete 3 CY 150.00 \$\$2, Stone Bedding 150 TON 23.25 \$\$13, Fittings 1 LS 2,000.00 \$\$2, Concrete 3 CY 1500.		Dumptruck with Driver	35	DAY	650.00	\$22,750		\$22,750	
Storm Structures Particular Partinterity for the particular Particul		Laborer	560	HRS	65.00	\$36,400		\$36,400	
Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Laborer 288 HRS 650.00 \$11, Laborer 288 HRS 96.00 \$13, Water Service		Plumber Labor	280	HRS	96.00	\$26,880		\$26,880	
Inlets 9 EA 2,790.00 \$25, Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 1,200.00 \$21, Laborer 288 HRS 650.00 \$11, Laborer 288 HRS 96.00 \$13, Water Service									
Manoles 6 EA 3,875.00 \$23, Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$21, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$11, Water Service 285 LF 23.25 \$13, Water Service 3 CY 150.00 \$22, Concrete 3 CY 150.00 \$23, Stone Bedding 150 TON 23.25 \$13, Excavator with Operating Engineer 8 DAY 1,500.00 \$22, Concrete 3 CY 150.00 \$23, Excavator with Operating Engineer 8 DAY 1,200.00 \$12, Medium Loader with Operating Engineer				= .	0 700 00	* • - • • •			
Endwalls 3 EA 1,550.00 \$4, Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 18 DAY 650.00 \$11, Plumber Labor 144 HRS 96.00 \$13, Water Service						\$25,110		\$25,110	
Rip-Rap Aprons 60 TON 23.25 \$1, Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$18, Plumber Labor 144 HRS 96.00 \$13, Water Service 4" DIP Domestic 585 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$2, Concrete 3 CY 150.00 \$2, \$3, Excavator with Operating Engineer 8 DAY 1,200.00 \$2, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 65.00 \$8,						\$23,250		\$23,250	
Excavator with Operating Engineer 18 DAY 1,500.00 \$27, Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$13, Water Service 144 HRS 96.00 \$13, Water Service 285 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$2, Medium Loader with Operating Engineer 8 DAY 1,20.00 \$9, Dumptruck with Driver 8 DAY 1,20.00 \$6, Water Service 128 HRS 65.00 \$8, Plumber Labor 64 HRS						\$4,650		\$4,650	
Medium Loader with Operating Engineer 18 DAY 1,200.00 \$21, Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$18, Plumber Labor 144 HRS 96.00 \$13, Water Service 144 HRS 96.00 \$13, Water Service 142 Stope Set EF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,200.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service 575 LF 38.75 \$22, Fittings 1 LS<						\$1,395		\$1,395	
Dumptruck with Driver 18 DAY 650.00 \$11, Laborer 288 HRS 65.00 \$18, Plumber Labor 144 HRS 96.00 \$13, Water Service 144 HRS 96.00 \$13, Water Service 585 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service 3 CY 150.00 \$2, Concrete 3 CY 1500.00						\$27,000		\$27,000	
Laborer 288 HRS 65.00 \$18, Plumber Labor 144 HRS 96.00 \$13, Water Service 144 HRS 96.00 \$13, 4" DIP Domestic 585 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$\$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$12, Dumptruck with Driver 8 DAY 1,200.00 \$12, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service 2 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3,								\$21,600 \$11,700	
Plumber Labor 144 HRS 96.00 \$13, Water Service						\$18,720		\$11,700	
Water Service Image: Constraint of the service 4" DIP Domestic 585 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service 8" DIP Domestic 575 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12,						\$13,824		\$13,824	
4" DIP Domestic 585 LF 23.25 \$13, Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$\$ Stone Bedding 150 TON 23.25 \$\$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$\$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$\$9, Dumptruck with Driver 8 DAY 1,200.00 \$\$5, Laborer 128 HRS 650.00 \$\$6, Water Service			144	11113	30.00	ψ13,02 4		φ13,02 4	
Fittings 1 LS 2,000.00 \$2, Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 1,200.00 \$5, Laborer 128 HRS 650.00 \$5, Laborer 128 HRS 96.00 \$6, Water Service 64 HRS 96.00 \$6, Water Service 75 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$12, Medium Loader with Operating Engineer 8									
Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$19, Dumptruck with Driver 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service						\$13,601		\$13,601	
Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service						\$2,000		\$2,000	
Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 1,200.00 \$9, Laborer 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service						\$450		\$450	
Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service						\$3,488		\$3,488	
Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 650.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service 64 HRS 96.00 \$6, 8" DIP Domestic 575 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,200.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$12, Dumptruck with Driver 8 DAY 650.00 \$5,						\$12,000		\$12,000	
Laborer 128 HRS 65.00 \$8, Plumber Labor 64 HRS 96.00 \$6, Water Service						\$9,600		\$9,600	
Plumber Labor 64 HRS 96.00 \$6, Water Service						\$5,200		\$5,200	
Water Service Image: Mater Service 8" DIP Domestic 575 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$12, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,						\$8,320		\$8,320	
8" DIP Domestic 575 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$2, Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,		Plumber Labor	64	HRS	96.00	\$6,144		\$6,144	
8" DIP Domestic 575 LF 38.75 \$22, Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,		Water Service							
Fittings 1 LS 2,500.00 \$2, Concrete 3 CY 150.00 \$\$ Stone Bedding 150 TON 23.25 \$\$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$\$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$\$9, Dumptruck with Driver 8 DAY 650.00 \$\$5, Laborer 128 HRS 65.00 \$\$8,			575	LF	38.75	\$22,281		\$22,281	
Concrete 3 CY 150.00 \$ Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,						\$2,500		\$2,500	
Stone Bedding 150 TON 23.25 \$3, Excavator with Operating Engineer 8 DAY 1,500.00 \$12, Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,						\$450		\$450	
Excavator with Operating Engineer8DAY1,500.00\$12,Medium Loader with Operating Engineer8DAY1,200.00\$9,Dumptruck with Driver8DAY650.00\$5,Laborer128HRS65.00\$8,						\$3,488		\$3,488	
Medium Loader with Operating Engineer 8 DAY 1,200.00 \$9, Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,						\$12,000		\$12,000	
Dumptruck with Driver 8 DAY 650.00 \$5, Laborer 128 HRS 65.00 \$8,						\$9,600		\$9,600	
Laborer 128 HRS 65.00 \$8,		1 0 0				\$5,200		\$5,200	
						\$8,320		\$8,320	1
						\$6,144		\$6,144	
Allowance: Water Permits 1 LS 30,000.00 \$30,						\$30,000		\$30,000	

		Detailed	LSU	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Allowance: Water Meter Pit		LS	15,000.00	\$15,000		\$15,000	
	Addendum #5:		-	1 000 00	¢4.000		¢1.000	
	Additional Fire Hydrant		EA	4,000.00	\$4,000		\$4,000	
	Additional 500 CY cut to haul	1	LS	11,000.00	\$11,000		\$11,000	
	Block Retaining Walls:							
	Retaining Wall Subconttractor	2600		35.00	\$91,000		\$91,000	
	Excavator with Operating Engineer		DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver		DAY	650.00	\$3,250		\$3,250	
	Laborer	40	HRS	65.00	\$2,600		\$2,600	
	Foreman	40	HRS	75.00	\$3,000		\$3,000	
	Site Concrete:							
	Concrete Curbs	4500	LF					
	Concrete	187	CY	150.00	\$28,050		\$28,050	
	Backhoe with Operating Engineer		DAY	1,000.00	\$15,000		\$15,000	
	Laborer		HRS	65.00	\$7,800		\$7,800	
	Foreman		HRS	75.00	\$9,000		\$9,000	
	Cement Finisher		HRS	75.00	\$18,000		\$18,000	
	Cement Finisher Foreman		HRS	85.00	\$10,200		\$10,200	
		40005	05					
	Sidewalk	10965		150.00	* ~~ ~ = ~		^	
	Concrete		CY	150.00	\$22,050		\$22,050	
	Stone		TON	23.25	\$5,278		\$5,278	
	Backhoe with Operating Engineer		DAY	1,000.00	\$10,000		\$10,000	
	Laborer		HRS	65.00	\$5,200		\$5,200	
	Foreman		HRS	75.00	\$6,000		\$6,000	
	Cement Finisher		HRS	75.00	\$12,000		\$12,000	
	Cement Finisher Foreman	80	HRS	85.00	\$6,800		\$6,800	
	Chain Link Fencing:							
	Subcontract	1	bid					
	Bidders:	•	D.u.					
	Quantity Survey:							
	Fencing at site	480	LF	30.00	\$14,400		\$14,400	
	Double Gates	1	EA	1,200.00	\$1,200		\$1,200	
	Fending at pads	310		30.00	\$9,300		\$9,300	
	Single Gates with Panic Hardware		EA	1,200.00	\$4,800		\$4,800	
	Illuminated Site Signage:							
	Subcontract	1	bid					
	Bidders:		biu					
	Diqueta.	1	1					1

		Detailed	l Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
001			WIE/ (O		TOTAL	120001	EGTIMI/(TE	
	Quantity Survey:							
	Lighted Sign	1	EA	2,500.00	\$2,500		\$2,500	
2500	PAVING							\$338,981
2000	Subcontract	1	bid					4000 ,001
	Bidders:							
	Quantity Survey:							
	Light Duty Paving	9200	SY					
	Stone Base, 6" Thick		TON	23.25	\$60,590		\$60,590	
	ID-2 Binder Course, 1-1/2" Thick	795	TON	66.65	\$52,987		\$52,987	
	ID-2 Wearing Course, 1-1/2" Thick		TON	69.75	\$57,893		\$57,893	
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$7,200		\$7,200	
	Compactor with Operating Engineer		DAY	1,000.00	\$6,000		\$6,000	
	Large Paver		DAY	1,600.00	\$8,000		\$8,000	
	Asphalt Roller		DAY	900.00	\$9,000		\$9,000	
	Dumptruck with Driver		DAY	650.00	\$12,350		\$12,350	
	Laborer		HRS	65.00	\$22,880		\$22,880	
	Foreman	88	HRS	75.00	\$6,600		\$6,600	
	Lloover Duty Doving	2688	CV					
	Heavy Duty Paving Stone Base, 6" Thick		TON	23.25	\$17,670		\$17,670	
	ID-2 Binder Course		TON	66.65	\$25,994		\$17,070 \$25,994	
	ID-2 Wearing Course		TON	69.75	\$17,089		\$23,994	
	Medium Dozer with Operating Engineer		DAY	1,200.00	\$2,400		\$2,400	
	Compactor with Operating Engineer		DAY	1,000.00	\$2,000		\$2,000	
	Large Paver		DAY	1,600.00	\$3,200		\$3,200	
	Asphalt Roller		DAY	900.00	\$3,600		\$3,600	
	Dumptruck with Driver		DAY	650.00	\$4,550		\$4,550	
	Laborer		HRS	65.00	\$8,320		\$8,320	
	Foreman	32	HRS	75.00	\$2,400		\$2,400	
	Line Painting and Signs:							
	Parking Stalls		EA	10.00	\$2,560		\$2,560	
	Signs Wheel Stops		EA EA	500.00 100.00	\$5,000 \$700		\$5,000 \$700	
2900								\$101,991
2300	Subcontract	1	bid					φ101,991
	Bidders:		~~~					

		Detailed	Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Quantity Survey:							
	Type IV Red Sperit	153		22.90	\$3,504		\$3,504	
	Type Jh Creaping Juniper	224		26.40			\$5,914	
	Type TB Spreading English Yew	252		23.80			\$5,998	
	Type ZS Green Zelkova		EA	420.00			\$13,860	
	Type JE Soft Rush	983		2.00			\$1,966	
	Labor	430	HRS	65.00	\$27,950		\$27,950	
	Fine Rake	88000	SF					
	Laborer		HRS	65.00	\$5,200		\$5,200	
	Mulch	32000	<u>ог</u>	0.30	\$9,600		\$9,600	
	Laborer		HRS	65.00			\$9,600	
		80	TIKO	05.00	φ3,200		\$5,200	
	Seed	88000	SF	0.20	\$17,600		\$17,600	
	Laborer		HRS	65.00			\$5,200	
3000	CONCRETE							\$1,199,410
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Building Concrete:	200.04	OV					
	Grade Beams	388.94 172.23						
	Footings Slab on Grade	1,256.88						
	Slab on Metal Deck	1,256.88						
	Piers	3.10						
	Walls	6.49						
	Poured in Place Stairs	1.16						
	Stair Treads & Landings	7.22	CY					
			CY	500.00	\$1,003,690		\$1,003,690	
	Total Concrete	2,007.38	01			1		
	Total Concrete	2,007.38						
	Total Concrete Misc Items (included in unit price, above)							
	Total Concrete Misc Items (included in unit price, above) Re-bar	14.64	TN					
	Total Concrete Misc Items (included in unit price, above) Re-bar WWF	14.64 82,309	TN SF					
	Total Concrete Misc Items (included in unit price, above) Re-bar	14.64	TN SF					

		Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Plywood Forms	544	SF					
	Fiber Mesh	128	BG					
	Building Excavation:							
	Removal							
	Grade Beams	805.69	CY					
	Footings	292.36	CY					
	Finish Grade to Slab Sub-Grade	1,243.74						
	Stairs & Walls	71.19	CY					
	Total Removal	2,412.98	CY					
			/				A 1 A A A A	
	Backhoe with Operating Engineer		DAY	1,000.00	\$10,000		\$10,000	
	Excavator with Operating Engineer		DAY	1,500.00	\$15,000		\$15,000	
	Loader with Operating Engineer	10	DAY	1,500.00	\$15,000		\$15,000	
	Dumptruck with Driver		DAY	650.00	\$6,500		\$6,500	
	Laborer	160	HRS	65.00	\$10,400		\$10,400	
	Backfill							
	Grade Beams	506.65	CY					
	Footings	84.39	CY					
	Stairs & Walls	57.73	CY					
	Total Replacement	648.77	CY					
	Backhoe with Operating Engineer	10	DAY	1,000.00	\$10,000		\$10,000	
	Excavator with Operating Engineer		DAY	1,500.00	\$15,000		\$15,000	
	Loader with Operating Engineer		DAY	1,500.00	\$15,000		\$15,000	
	Dumptruck with Driver		DAY	650.00	\$6,500		\$6,500	
	Laborer		HRS	65.00	\$10,400		\$10,400	
	Spoil Export							
	Slab Grading - Excess Soils	1,243.74	CY					
	Loader with Operating Engineer	5	DAY	1,500.00	\$7,500		\$7,500	
	Dumptruck with Driver		DAY	650.00	\$13,000		\$13,000	
	Dumping Fees		EA	75.00	\$7,125		\$7,125	
							÷, -	
	Stone Placement:							
	Stone (delivered)	1,745.00	TN	19.00	\$33,155		\$33,155	
	Loader with Operating Engineer		DAY	1,500.00	\$7,500		\$7,500	
	Carpentry Labor		HRS	81.00	\$3,240		\$3,240	
	Laborer		HRS	65.00	\$10,400		\$10,400	
4000	MASONRY							\$522,989
4000	Subcontract	1	bid					\$JZZ,989
	Bidders:		514					

		Detailed	Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Quantity Survey:							
	Brick Facing							
A301	Elevation 1	391	SF	23.00	\$8,993		\$8,993	
	Elevation 4	2040	SF	23.00	\$46,920		\$46,920	
A302	Elevation 1	3420		23.00	\$78,660		\$78,660	
	Elevation 1	4290		23.00	\$98,670		\$98,670	
	Elevation 2	4290		23.00	\$98,670		\$98,670	
	Plan Sections 4, 5, 6/ S101	342	SF	23.00	\$7,866		\$7,866	
	8" Ground Face CMU	2288	SF	25.00	\$57,200		\$57,200	
	12" Ground Face CMU							
	Plan Section 1/A506	167	SF	30.00	\$5,010		\$5,010	
	Plan Section 1/A507	474		30.00	\$14,220		\$14,220	
			0.	00.00	ψ1 1, 220		φ. 1,220	
4/S102	Split Face Block (Mechanical Enclosure)	500	SF	25.00	\$12,500		\$12,500	
	8" CMU							
	Plan Sections 4, 5, 6/ S101	456	SE.	14.00	\$6,384		\$6,384	
	Plan Sections 4, 5, 6/ S101	192		14.00	\$2,688		\$0,364	
	Plan Sections 1/ S101	153		14.00	\$2,142		\$2,142	
	Plan Sections 1/ S101	192		14.00	\$2,688		\$2,688	
	Plan Sections 1A/ S101		SF	14.00	\$1,218		\$1,218	
	Elevation Shaft	1280		14.00	\$17,920		\$17,920	
	Boiler Room	910		14.00	\$12,740		\$12,740	
4/S505	Boiler Room	3185	SF	14.00	\$44,590		\$44,590	
	12" CMU							
	Plan Section 2/S103	30	SF	17.00	\$510		\$510	
	Plan Section 4/S102	200	SF	17.00	\$3,400		\$3,400	
5000	METALS							\$933,478
5000	Subcontract	1	bid					φ933,470
	Bidders:	1	biu					
	Quantity Survey:							
	Structural Steel:							
	Columns	35.20	TN					
	Beams	83.11	TN					
	HSS Steel - (inc Plates & Gussets)	33.48	TN					
	Bar Joists	35.02	TN					
	Plates & Angles	18.48	TN					

]	Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Total Structural Steel	205.29	TN	3,100.00	\$636,399		\$636,399	
	Metal Deck							
	9/16" x Corrugated Metal Deck	15,739	SF	2.25	\$35,413		\$35,413	
	1 1/2" x 20 GA Metal Deck	19,315	SF	2.50	\$48,288		\$48,288	
	2" x 18 GA Metal Deck	596	SF	2.75	\$1,639		\$1,639	
	Pre Stressed Concrete Plank	450	SF	30.00	\$13,500		¢40 500	
		450	SF	30.00	\$13,500		\$13,500	
	Miscellaneous Metals:							
	Stair w/ Landing (including railings)	2	EA	30,000.00	\$60,000		\$60,000	
	Stair (to mezzanine, with rails)	2	EA	7,500.00	\$15,000		\$15,000	
	Stairs (main entry, with architectural railings)	1	EA	30,000.00	\$30,000		\$30,000	
	Ladder	1	EA	3,500.00	\$3,500		\$3,500	
	Loose Lintels	1.32	TN	2,000.00	\$2,640		\$2,640	
	Attachments (anchor bolts, etc.)	1,670.00	EA	50.00	\$83,500		\$83,500	
		.,0.000			<i>400,000</i>		<i>400,000</i>	
	Pipe Railings, double rail	40	LF	90.00	\$3,600		\$3,600	
6000	CARPENTRY							\$88,889
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey							
	Quantity Survey: Roof Wood Blocking							
18,19,								
	Perimeter Blocking 2X6 PT	2888	LF	1.24	\$3,581		\$3,581	
	Curb Blocking 2X6 PT	120		1.24	\$149		\$149	
	Knee Wall Blocking 2X6 PT	112		1.24	\$139		\$139	
	Knee Wall Blocking 2X10 PT	224		2.01	\$450		\$450	
	Roof Hatch Blocking 2X6 PT		LF	1.24	\$40		\$40	
20/A122	Parapet Cap 1X10 PT	386		1.20	\$463		\$463	
	Parapet Cap 2X4 PT	772	LF	0.77	\$594		\$594	
15,16/								
A122	Blocking 2X8 PT	222		1.70	\$377		\$377	
	Blocking 2X6 PT	444		1.24	\$551		\$551	
	Blocking 2X4 PT	444		0.77	\$342		\$342	
10/A122	Blocking 2X6 PT	144		1.24	\$179		\$179	
	Fasteners		LS	150.00	\$150		\$150 \$150	
	Carpentry Labor	92	HRS	81.00	\$7,452		\$7,452	
	Wood Blocking for Cabinetry							
	Base 2X4	161	LF	0.53	\$85		\$85	

Detailed Estimate CSI DESCRIPTION QTY MEAS UNIT \$ PER Wall 2X4 150 LF 0.0 0.1 0.1 0.1 0.1 P-Lam Shelving 2X4 114 LF 0.0 0.1				
CSI DESCRIPTION QTY MEAS UNIT Wall 2X4 150 LF 0.5 P-Lam Shelving 2X4 114 LF 0.5 Fasteners 1 LS 21.0 Carpentry Labor 29 HRS 81.0 Wood Blocking - - - A702 Tops 2X4 226 LF 0.5 6,7/ - - - - A801 Framing 2X4 250 LF 0.5 Fasteners 1 LS 24.0 - - Type 8 Walls 2X4 240 LF 0.5 - - Type 9 Walls 2X4 512 LF 0.5 - - - ZX802 17 Piywood 964 SF 1.1 - - - - - - - - - - - - - - - - - - - <			TOTAL	TOTAL BY
Wall 2X4 150 LF 0.5 P-Lam Shelving 2X4 114 LF 0.5 Fasteners 1 LS 21.0 Carpentry Labor 29 HRS 81.0 Wood Blocking 29 HRS 81.0 A702 Tops 2X4 246 LF 0.5 Fasteners 1 LS 24.0 C Fasteners 1 LS 24.0 C Carpentry Labor 10 HRS 81.0 C Type 8 Walls 2X4 252 LF 0.5 C Type 9 Walls 2X4 512 LF 0.5 C 2/A80 212 F 1.0 C 2.1 C 0.5 2/A80 252 LF 1.0 2.4 C 1.1 1.2 2.4 1.6 2.4 2X40 434 LF 0.5 1.1 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	TOTAL	ADJUST	ESTIMATE	CATEGORY
P-Lam Shelving 2X4 114 LF 0.5 Fasteners 1 LS 21.0 Carpentry Labor 29 HRS 81.0 Wood Blocking 246 LF 0.5 A702 Tops 2X4 250 LF 0.5 6,7/ 1 LS 24.0 A801 Framing 2X4 250 LF 0.5 Fasteners 1 LS 24.0 Carpentry Labor 10 HRS 81.0 Type 8 Walls 2X4 4496 LF 0.5 Type 9 Walls 2X4 512 LF 0.6 2/A802 112 LF 0.4 2X10 434 LF 1.1 2X12 644 LF 1.5 Joist Hangers 172 EA 2.5 Bridging 99 Pair 138 EA 1.5 A44 376 LF 1.5 A51 7 EA 500.0 Fasteners 1 LS 463.1 Carpentry Labor 120 HRS<			\$80	
Fasteners 1 LS 21.0 Carpentry Labor 29 HRS 81.0 Wood Blocking 1 1 1 A702 Tops 2X4 246 LF 0.5 6,7/ A801 Framing 2X4 250 LF 0.5 Fasteners 1 LS 244.0 24.1.1			\$60	
Carpentry Labor 29 HRS 81.0 Wood Blocking			\$21	
Wood Blocking			\$2,349	
A702 Tops 2X4 246 LF 0.1 6,7/	+=,= :=		<i> </i>	
6,7/ A801 Framing 2X4 250 LF 0.9 Fasteners 1 LS 24.0 Carpentry Labor 10 HRS 81.0 Type 8 Walls 2X4 4496 LF 0.9 Type 9 Walls 2X4 512 LF 0.9 2/A802 1° Plywood 964 SF 1.7 2X8 252 LF 1.0 25 LF 1.0 2X10 434 LF 1.6 25 LF 1.1 2X12 644 LF 2.4 27 28 25 LF 1.1 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.4 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Garpentry Labor 120 HRS 81.0 463.0 27 28 463.0 27 2X12 748 LF 1.2 24.4 104 LF 1.5 24.1 112D 1° Plywood 560 SF </td <td></td> <td></td> <td></td> <td></td>				
A801 Framing 2X4 250 LF 0.1 Fasteners 1 LS 24.0 Carpentry Labor 10 HRS 81.0 Type 8 Walls 2X4 4496 LF 0.5 Type 9 Walls 2X4 512 LF 0.5 2/A802 1'' Plywood 964 SF 1.7 2X8 252 LF 1.6 1.6 2X10 434 LF 1.6 2.7 AX4 376 LF 1.7 1.0 1.4 1.6 2X12 644 LF 2.4 4.4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.8 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Carpentry Labor 120 HRS 81.0 1.5 463.0 Carpentry Labor 120 HRS 81.0 1.5 463.0 T112D 1'' Plywood 560 SF 1.7 2.4 2	53 \$130		\$130	
Fasteners 1 LS 24.0 Carpentry Labor 10 HRS 81.0 Framing 10 HRS 81.0 Type 9 Walls 2X4 512 LF 0.5 2/A802 1° Plywood 964 SF 1.7 2X8 252 LF 1.6 2X10 434 LF 1.6 2X110 434 LF 1.6 2X12 644 LF 2.4 4X4 376 LF 1.1 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500 Carpentry Labor 120 HRS 81.0 T112D 1° Plywood 560 SF 1.1 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Joist Hangers 1 LS 756.0 Carpentry Labor 29 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Carpentry Labor 10 HRS 81.0 Framing			\$133	
Framing Image: Constraint of the second			\$24	
Type 8 Walls 2X4 4496 LF 0.5 Type 9 Walls 2X4 512 LF 0.6 2/A802 1" Plywood 964 SF 1.7 2X8 252 LF 1.6 2X10 434 LF 1.6 2X12 644 LF 2.6 4X4 376 LF 1.7 Joist Hangers 172 EA 2.6 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.6 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.1 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.6 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 <td>00 \$810</td> <td></td> <td>\$810</td> <td></td>	00 \$810		\$810	
Type 8 Walls 2X4 4496 LF 0.5 Type 9 Walls 2X4 512 LF 0.6 2/A802 1" Plywood 964 SF 1.7 2X8 252 LF 1.6 2X10 434 LF 1.6 2X12 644 LF 2.6 4X4 376 LF 1.7 Joist Hangers 172 EA 2.6 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.6 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.1 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Grapentry Labor 29 HRS 81.0 Fasteners 1 LS 75.0 <td></td> <td></td> <td></td> <td></td>				
Type 9 Walls 2X4 512 LF 0.5 2/A802 1" Plywood 964 SF 1.7 2X8 252 LF 1.6 2X10 434 LF 1.6 2X12 644 LF 2.4 4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.8 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Bridging 41 Pair 82 EA 1.8 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Garpentry Labor 29 HRS 81.0 Garpentry Labor <td>53 \$2,383</td> <td></td> <td>\$2,383</td> <td></td>	53 \$2,383		\$2,383	
2/A802 1" Plywood 964 SF 1.1 2X8 252 LF 1.0 2X10 434 LF 1.6 2X12 644 LF 2.4 4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Katir Flights 1 EA 500.0 Carpentry Labor 229 HRS			<u>مح</u> ,303 \$271	
2X8 252 LF 1.0 2X10 434 LF 1.6 2X12 644 LF 2.4 4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.8 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's 20 HRS <td></td> <td></td> <td></td> <td></td>				
2X10 434 LF 1.6 2X12 644 LF 2.4 4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Garpentry Labor 29 HRS 81.0 Atta 1468 LF 0.5 Garpentry Labor 29 HRS 81.0 Atta 124 468 LF			\$1,639	
2X12 644 LF 2.4 4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.8 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's 1 1 Note 13 3/4" Plywood 134 SF 1.2 Blocking for Toilet Compartments 2 2 1.5 ZX4			\$272	
4X4 376 LF 1.7 Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.8 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.6 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.6 Fasteners 1 LS 750.0 Railing 2X4 468 LF 0.6 Fasteners 1 LS 750.0 Carpentry Labor 29 HRS 81.0 Mote 13 3/4" Plywood 134 SF 1.2 Blocking for Toilet Compartments 2 1.2 Blocking for Toilet Compartments 2 1.2 Blocking for Toilet Accessories 2 1.2 2X4 72 LF 0			\$729	
Joist Hangers 172 EA 2.5 Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.6 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 Mote 13 3/4" Plywood 134 SF 1.2 Blocking for Toilet Compartments 25 HRS 81.0 2X4 212 LF 0.5			\$1,597	
Bridging 99 Pair 198 EA 1.6 Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.6 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 750.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 Mote 13 3/4" Plywood 134 SF 1.2 Blocking for Toilet Compartments 2X4 212 LF 0.5 Blocking for Toilet Accessories 2X4 212 LF 0.5 Blocking for Marker Boards, Tack Boards, 72 LF 0.5			\$647	
Railing 2X4 1190 LF 0.5 Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's			\$435	
Stair Flights 7 EA 500.0 Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's			\$374	
Fasteners 1 LS 463.0 Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's 1 1.4 Note 13 3/4" Plywood 134 SF 1.2 Carpentry Labor 25 HRS 81.0 Blocking for Toilet Compartments 1 10.5 10.5 2X4 212 LF 0.5 10.5 Blocking for Marker Boards, Tack Boards, 72 LF 0.5			\$631	
Carpentry Labor 120 HRS 81.0 T112D 1" Plywood 560 SF 1.7 2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's 1 1.4 Note 13 3/4" Plywood 134 SF 1.2 Carpentry Labor 25 HRS 81.0 Blocking for Toilet Compartments 2 2 2 1.2 Stair for Toilet Accessories 2 2 2 1.2 Blocking for Toilet Accessories 2 2 2 1.2 Blocking for Marker Boards, Tack Boards, 72 LF <td< td=""><td></td><td></td><td>\$3,500</td><td></td></td<>			\$3,500	
T112D1" Plywood560SF1.72X12748LF2.44X4104LF1.7Joist Hangers80EA2.5Bridging 41 Pair82EA1.8Stair Flights1EA500.0Railing 2X4468LF0.5Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's134SF1.2Note 133/4" Plywood134SF1.2Blocking for Toilet Compartments212LF0.52X4212LF0.510.5Blocking for Toilet Accessories212LF0.52X472LF0.510.5Blocking for Marker Boards, Tack Boards,12LF0.5			\$463	
2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's	00 \$9,720		\$9,720	
2X12 748 LF 2.4 4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.6 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's	70 \$952		\$952	
4X4 104 LF 1.7 Joist Hangers 80 EA 2.5 Bridging 41 Pair 82 EA 1.8 Stair Flights 1 EA 500.0 Railing 2X4 468 LF 0.5 Fasteners 1 LS 75.0 Carpentry Labor 29 HRS 81.0 A101 Blocking for LCD's			\$1,855	
Joist Hangers80EA2.5Bridging 41 Pair82EA1.6Stair Flights1EA500.0Railing 2X4468LF0.5Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's134SF1.2Note 133/4" Plywood134SF1.2Blocking for Toilet Compartments25HRS81.02X4212LF0.5Blocking for Toilet Accessories2X472LF2X472LF0.5Blocking for Marker Boards, Tack Boards,72LF0.5			\$179	
Bridging 41 Pair82EA1.8Stair Flights1EA500.0Railing 2X4468LF0.5Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's134SF1.2Note 133/4" Plywood134SF1.2Blocking for Toilet Compartments25HRS81.02X4212LF0.5Blocking for Toilet Accessories2X472LF2X472LF0.5Blocking for Marker Boards, Tack Boards,72LF0.5			\$202	
Stair Flights1EA500.0Railing 2X4468LF0.5Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's134SF1.2Note 133/4" Plywood134SF1.2Carpentry Labor25HRS81.0Blocking for Toilet Compartments25HRS81.02X4212LF0.5Blocking for Toilet Accessories2X472LF0.5Blocking for Marker Boards, Tack Boards,72LF0.5			\$202	
Railing 2X4468LF0.6Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's			\$155	
Fasteners1LS75.0Carpentry Labor29HRS81.0A101Blocking for LCD's				
Carpentry Labor29HRS81.0A101Blocking for LCD's			\$248	
A101 Blocking for LCD's Note 13 3/4" Plywood 134 SF 135 ST <td></td> <td></td> <td>\$75</td> <td></td>			\$75	
Note 133/4" Plywood134SF1.2Carpentry Labor25HRS81.0Blocking for Toilet Compartments212LF0.5Blocking for Toilet Accessories22472LF0.5Blocking for Toilet Accessories72LF0.5Blocking for Marker Boards, Tack Boards,72LF0.5	00 \$2,349		\$2,349	
Note 133/4" Plywood134SF1.2Carpentry Labor25HRS81.0Blocking for Toilet Compartments212LF0.5Blocking for Toilet Accessories22472LF0.5Blocking for Toilet Accessories72LF0.5Blocking for Marker Boards, Tack Boards,72LF0.5				
Carpentry Labor25 HRS81.0Blocking for Toilet Compartments212 LF0.52X4212 LF0.5Blocking for Toilet Accessories72 LF0.5Blocking for Marker Boards, Tack Boards,72 LF0.5	28 \$172		\$172	
Blocking for Toilet Compartments 1 2X4 212 LF Blocking for Toilet Accessories 1 2X4 72 LF Blocking for Marker Boards, Tack Boards, 1			\$2,025	
2X4 212 LF 0.5 Blocking for Toilet Accessories 2 2X4 72 LF 0.5 Blocking for Marker Boards, Tack Boards, 7			. ,	
Blocking for Toilet Accessories 2X4 72 LF 0.5 Blocking for Marker Boards, Tack Boards, 2X4 72 LF 0.5				
2X4 72 LF 0.5 Blocking for Marker Boards, Tack Boards, 0.5	53 \$112		\$112	
Blocking for Marker Boards, Tack Boards,				
	53 \$38		\$38	
Tack Strips and Projection Screens				
2X4 1527 LF 0.5	53 \$809		\$809	
Carpentry Labor 102 HRS 81.0			\$8,262	
A908 Blocking at P1, P2, P3, L1 (Details 1, 2, 3, 4, 5)	<u> </u>		MO 407	
2X12 PT 822 LF 2.6 2X8 PT 2938 LF 1.7			\$2,137 \$4,995	

	De	etailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	2X4 PT	3760		0.77	\$2,895		\$2,895	
	Fasteners		LS	376.00	\$376		\$376	
	Carpentry Labor	140	HRS	81.00	\$11,340		\$11,340	
1000	Blocking W1, W2, W3, W4, W5 (Details 7, 8, 9)							
A900	1X6 PT	1524	IF	0.95	\$1,448		\$1,448	
	2X6 PT	1524		1.24	\$1,890		\$1,890	
	Fasteners		LS	153.00	\$153		\$153	
	Carpentry Labor		HRS	81.00	\$3,888		\$3,888	
1/A908	B Store Front Blocking							
	2X8 PT	142		1.70	\$241		\$241	
	2X4 PT	142		0.77	\$109		\$109	
	Fasteners		LS HRS	15.00	\$15		\$15 \$15	
	Carpentry Labor	8	HK2	81.00	\$648		\$648	
6400	CABINETRY, CASEWORK, CUSTOM MILLWORK							\$170,44
0400	Vendor, F & D w T	1	bid					φ170,44
	Labor to install See Below	•	HRS	81.00				
	Bidders:							
	Quantity Survay							
A701	Quantity Survey: Cabinet Types							
AIUI	1	g	EA	750.00	\$1,500		\$1,500	
	2		EA	750.00	\$2,250		\$2,250	
	3	•	EA		<i>↓_,00</i>		<i>\</i>	
	4		EA	625.00	\$3,125		\$3,125	
	5	36	EA	625.00	\$3,750		\$3,750	
	6		EA	625.00	\$4,375		\$4,375	
	7		EA	375.00	\$3,000		\$3,000	
	8		EA	313.00	\$2,817		\$2,817	
	9		EA	313.00	\$3,130		\$3,130	
	10		EA	313.00	\$3,443		\$3,443	
	11 12		EA EA	1,800.00 500.00	\$21,600 \$6,500		\$21,600 \$6,500	
	12		EA	250.00	\$6,500 \$3,500		\$6,500 \$3,500	
	14		EA	500.00	\$7,500		\$3,500	
	15		EA	600.00	\$9,600		\$9,600	
	16		EA	900.00	\$1,800		\$1,800	
	P-Lam Tops	510		50.00	\$25,500		\$25,500	
	P-Lam Shelving		LF	200.00	\$11,400		\$11,400	
	Carpenter Labor	133	HRS	81.00	\$10,773		\$10,773	
-								
	Tops	313		45.00	\$14,085		\$14,085	
4/A70	26" Wood Cap at Rm T104	18	LF	1.75	\$32		\$32	

DESCRIPTION arpenter Labor eception Desk p e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	31 3 169 108 20 938 2925 1305 585	LF HRS SF SF SF SF	\$ PER UNIT 81.00 45.00 250.00 3.63 1.10 81.00 1.06 1.06 1.06 81.00	TOTAL \$1,458 \$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620 \$18,711	ADJUST	TOTAL ESTIMATE \$1,458 \$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620	TOTAL BY CATEGORY
arpenter Labor ecception Desk pp e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	18 31 38 169 108 20 938 2925 1305 585	HRS SF LF SF LF HRS SF SF SF SF SF	81.00 45.00 250.00 3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$1,458 \$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620	ADJUST	\$1,458 \$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383	CATEGORY
eception Desk p e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	31 3 169 108 20 938 2925 1305 585	SF LF HRS SF SF SF SF SF	45.00 250.00 3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$1,395 \$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383	
p e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	3 169 108 20 938 2925 1305 585	LF SF LF HRS SF SF SF SF SF	250.00 3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383	
p e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	3 169 108 20 938 2925 1305 585	LF SF LF HRS SF SF SF SF SF	250.00 3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383	
e Cabinets all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	3 169 108 20 938 2925 1305 585	LF SF LF HRS SF SF SF SF SF	250.00 3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$750 \$613 \$119 \$1,620 \$994 \$3,101 \$1,383	
all Behind Reception Desk 2" Oak Veneer (4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	169 108 20 938 2925 1305 585	SF LF HRS SF SF SF SF SF	3.63 1.10 81.00 1.06 1.06 1.06 1.06	\$613 \$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$613 \$119 \$1,620 \$994 \$3,101 \$1,383	
2" Oak Veneer 44 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	108 20 938 2925 1305 585	LF HRS SF SF SF SF SF	1.10 81.00 1.06 1.06 1.06 1.06	\$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$119 \$1,620 \$994 \$3,101 \$1,383	
4 Oak Furring arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	108 20 938 2925 1305 585	LF HRS SF SF SF SF SF	1.10 81.00 1.06 1.06 1.06 1.06	\$119 \$1,620 \$994 \$3,101 \$1,383 \$620		\$119 \$1,620 \$994 \$3,101 \$1,383	
arpenter Labor DF Trim Board (Includes 7A & 7B/A907) 2 3 arpentry Labor SULATION	20 938 2925 1305 585	HRS SF SF SF SF SF	81.00 1.06 1.06 1.06 1.06	\$1,620 \$994 \$3,101 \$1,383 \$620		\$1,620 \$994 \$3,101 \$1,383	
2 arpentry Labor SULATION	2925 1305 585	SF SF SF	1.06 1.06 1.06	\$3,101 \$1,383 \$620		\$3,101 \$1,383	
2 arpentry Labor SULATION	2925 1305 585	SF SF SF	1.06 1.06 1.06	\$3,101 \$1,383 \$620		\$3,101 \$1,383	
2 3 arpentry Labor SULATION	2925 1305 585	SF SF SF	1.06 1.06 1.06	\$3,101 \$1,383 \$620		\$3,101 \$1,383	
arpentry Labor SULATION	1305 585	SF SF	1.06 1.06	\$1,383 \$620		\$1,383	
arpentry Labor SULATION	585	SF	1.06	\$620			1
SULATION						- <u>⊅</u> 0∠∪	
SULATION		пко	81.00	ΦΙΟ,/ΙΙ			
						\$18,711	
							\$71,095
Ibcontract dders:	1	bid					
Jantity Survey:							
sulation at Ground Face Block at							
erimeter of Trades Building A503, A504,							
505, A506							
			0.35				
arpentry Labor	12	HRS	81.00	\$972		\$972	
coustic Deck	7992	SF	5.00	\$39.960		\$39.960	
arpentry Labor			81.00	\$11,340		\$11,340	
nch Eiborgloog Inculation							
		+					
	11774	SF	0.72	\$8 477		\$8 477	
arpentry Labor			81.00	\$7,290		\$7,290	
OOFING & SHEETMETAL							\$313,003
Ibcontract	1	bid				,	,,
dders:							
dders:							
							t i i i i i i i i i i i i i i i i i i i
	05, A506 /2 Fiberglass Batt rpentry Labor Dustic Deck rpentry Labor Inch Fiberglass Insulation II Types rpentry Labor	05, A506 /2 Fiberglass Batt 2288 rpentry Labor 12 bustic Deck 7992 rpentry Labor 140 nch Fiberglass Insulation Ill Types 111774 3132 rpentry Labor 90 POFING & SHEETMETAL bcontract 1	05, A506 2288 SF /2 Fiberglass Batt 2288 SF rpentry Labor 12 HRS oustic Deck 7992 SF rpentry Labor 140 HRS nch Fiberglass Insulation 1 nll Types 11774 SF 3132 SF 3132 SF rpentry Labor 90 HRS OFING & SHEETMETAL 1	05, A506 2288 SF 0.35 /2 Fiberglass Batt 2288 SF 0.35 rpentry Labor 12 HRS 81.00 oustic Deck 7992 SF 5.00 rpentry Labor 140 HRS 81.00 nch Fiberglass Insulation 140 HRS 81.00 nch Fiberglass Insulation 11774 SF 0.72 3132 SF 0.72 rpentry Labor 90 HRS 81.00 OFING & SHEETMETAL 1 bid 1	05, A506 2288 SF 0.35 \$801 /2 Fiberglass Batt 2288 SF 0.35 \$801 rpentry Labor 12 HRS 81.00 \$972 oustic Deck 7992 SF 5.00 \$39,960 rpentry Labor 140 HRS 81.00 \$11,340 nch Fiberglass Insulation 140 HRS 81.00 \$11,340 nch Fiberglass Insulation 11774 SF 0.72 \$8,477 3132 SF 0.72 \$2,255 \$11774 \$100 \$7,290 OFING & SHEETMETAL 1 1 1 1 bid 1	05, A506 2288 SF 0.35 \$801 /2 Fiberglass Batt 2288 SF 0.35 \$801 rpentry Labor 12 HRS 81.00 \$972 oustic Deck 7992 SF 5.00 \$39,960 rpentry Labor 140 HRS 81.00 \$11,340 nch Fiberglass Insulation 140 HRS 81.00 \$11,340 nch Fiberglass Insulation 11774 SF 0.72 \$8,477 3132 SF 0.72 \$2,255 \$117,290 rpentry Labor 90 HRS 81.00 \$7,290 OFING & SHEETMETAL 1 bid 1 1	005, A506 Image: strict strind strind strict string strict strind strict strict st

		Detailed	Est	imate				
		Detaneu		\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
			_	-	-			
	Quantity Survey: EPDM Roofing	26163	<u>сг</u>	4.50	¢117 704		¢117 704	
				4.50	\$117,734		\$117,734	
	1/2" Fiber Board 3" Rigid Insulation	26163 26163		1.50	\$39,245		\$39,245	
	3 Rigid Insulation	20103	55	4.50	\$117,734		\$117,734	
	Sheet Metal							
20/A122	At Brick	386		15.00	\$5,790		\$5,790	
	9 1/2" High Fascia	386		15.00	\$5,790		\$5,790	
16/A122	Aluminum Fascia	111	LF	15.00	\$1,665		\$1,665	
	Soffit	611	SF	7.00	\$4,277		\$4,277	
15/A122	Aluminum Drip Edge	111	LF	10.00	\$1,110		\$1,110	
-	Soffit	167	SF	7.00	\$1,169		\$1,169	
	Galvanized Gutter	111		20.00	\$2,220		\$2,220	
18,19/					· · ·			
A122	Fascia	176		15.00	\$2,640		\$2,640	
	Fascia at High Roof	160	LF	15.00	\$2,400		\$2,400	
	Metal Coping at Mechanical Enclosures	50	LF	25.00	\$1,250		\$1,250	
	Metal Coping at Mechanical Enclosures	50	LF	25.00	φ1,230		φ1,200	
	Walk Pads	104	LF	25.00	\$2,600		\$2,600	
	Roof Hatch	1	EA	1,000.00	\$1,000		\$1,000	
		1		1,000.00	φ1,000		\$1,000	
A505	Resolite Translucent Roofling							
	T115	418		10.00	\$4,180		\$4,180	
	T117F	220	SF	10.00	\$2,200		\$2,200	
						1		
7900	SEALANTS		6.2.4					\$25,000
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Caulking	1	LS	25,000.00	\$25,000		\$25,000	
8100	DOORS, FRAMES, & HARDWARE							\$180,910
	Vendor, F & D w T		bid		. .		-	
	Labor to install	535	HRS	81.00	\$43,335		\$43,335	
	Bidders:							

		Detailed	l Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Quantity Survey:							
	Key Cabinets	1	EA	350.00	\$350		\$350	
	Door Slabs			250.00	\$23,500		¢00 500	
	Wood (Pre-Finished) Type 1 Wood (Pre-Finished) Type 2		EA	250.00 250.00	\$23,500		\$23,500 \$18,750	
	HM Door Over-Sized		EA	230.00	\$18,750		\$18,750	
	HM Frames							
	Single Door	66	EA	150.00	\$9,900		\$9,900	
	Double Door		EA	175.00	\$2,800		\$2,800	
	Single w/ 2 Windows	11	EA	225.00	\$2,475		\$2,475	
	Single w/ 3 Windows	1	EA	250.00	\$250		\$250	
	Single w/ 1 Full Lite	55	EA	200.00	\$11,000		\$11,000	
	Single w/ 3 Full Lites	5	EA	400.00	\$2,000		\$2,000	
	Window Double		EA	150.00	\$1,800		\$1,800	
	2 Full Lites		EA	225.00	\$450		\$450	
	3 Full Lites		EA	300.00	\$600		\$600	
	4 Full Lites		EA	400.00	\$800		\$800	
	Hardware Sets	181	EA	200.00	\$36,200		\$36,200	
	OH Coiling Doors							
	OH Doors	4	EA	6,000.00	\$24,000		\$24,000	
	OH Coiling Grille NONE FOUND							
0.400								¢070.0
8400	WINDOWS & STOREFRONT Subcontract	1	bid					\$376,2
	Bidders:	1	bid					
	Quantity Survey:							
	L1 Louvers, windows P1, P2, and P3 are							
	supplied by metal building manufacturer							
	Glass and Glazing							
	Door Glazing				A		A	
	Туре В & С		SF	10.00	\$3,440		\$3,440	
	Type D		SF	10.00	\$1,920		\$1,920	
			SF	10.00	\$140		\$140	
	Type F	9	SF	10.00	\$90		\$90	
	HM Frame Glazing							
	9							

		Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Full Lite	1653		10.00	\$16,530		\$16,530	
	Windows	539		10.00	\$5,390		\$5,390	
					. ,		. ,	
	Windows							
	W1	17	EA	250.00	\$4,250		\$4,250	
	W2	12	EA	300.00	\$3,600		\$3,600	
	W3	19	EA	325.00	\$6,175		\$6,175	
	W4	14	EA	350.00	\$4,900		\$4,900	
	W5	3	EA	250.00	\$750		\$750	
	Carpenter Labor	124	HRS	81.00	\$10,044		\$10,044	
	Aluminum Store Front							
	A904	1400		30.00	\$42,000		\$42,000	
	A904	557		30.00	\$16,710		\$16,710	
	A904 Doors	3	EA	1,800.00	\$5,400		\$5,400	
	Aluminum Curtain Wall							
	C1/A906	4193		35.00	\$146,755		\$146,755	
	C2/A906	976		35.00	\$34,160		\$34,160	
	C3/A906	1109	SF	35.00	\$38,815		\$38,815	
	C4/A906	666	SF	35.00	\$23,310		\$23,310	
	C5/A906	81	SF	35.00	\$2,835		\$2,835	
	Deere	5	EA	1,800.00	\$9,000		\$9,000	
	Doors	v						
9250	DRYWALL & METAL STUDS							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract		bid					\$1,112,553
9250	DRYWALL & METAL STUDS							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders:							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey:							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB							\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type		bid		\$E2.400		¢E2.400	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1	1	bid SF	0.65	\$53,409		\$53,409	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B	1 1 82168 19082	bid SF SF	0.65	\$12,403		\$12,403	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C	1 1 82168 19082 5553	bid SF SF SF	0.65 0.65	\$12,403 \$3,609		\$12,403 \$3,609	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D	1 1 82168 19082 5553 2786	bid SF SF SF SF SF	0.65 0.65 0.65	\$12,403 \$3,609 \$1,811		\$12,403 \$3,609 \$1,811	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D 2	1 1 82168 19082 5553 2786 19344	bid SF SF SF SF SF SF	0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574		\$12,403 \$3,609 \$1,811 \$12,574	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D 2 2B	1 1 82168 19082 5553 2786 19344 49764	bid SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1 1B 1C 1D 2 2B 2C	1 1 82168 19082 5553 2786 19344 49764 59725	bid SF SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1 1B 1C 1D 2 2B 2C 3	1 1 82168 19082 5553 2786 19344 49764 59725 17342	bid bid SF SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D 2 2B 2C 3 3A	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422	bid bid SF SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D 2 2B 2C 3 3A 3A 3B	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422 3712	bid bid SF SF SF SF SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1 1B 1C 1D 2 2B 2C 3 3A 3B 5A	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422 3712 1885	bid 5 5 5 5 5 5 5 5 5 5 5 5 5	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1B 1C 2 2B 2C 3 3A 3B 5A 7A	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422 3712 1885 11774	bid bid SF SF SF SF SF SF SF SF SF SF	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1D 2 2B 2C 3 3A 3B 5A 7A 7B	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422 3712 1885 11774	bid 5 5 5 5 5 5 5 5 5 5 5 5 5	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653 \$2,036		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653 \$2,036	\$1,112,553
9250	DRYWALL & METAL STUDS Subcontract Bidders: Quantity Survey: GWB Wall Type 1 1B 1C 1B 1C 2 2B 2C 3 3A 3B 5A 7A	1 1 82168 19082 5553 2786 19344 49764 59725 17342 5422 3712 1885 11774	bid 5 5 5 5 5 5 5 5 5 5 5 5 5	0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65	\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653		\$12,403 \$3,609 \$1,811 \$12,574 \$32,347 \$38,821 \$11,272 \$3,524 \$2,413 \$1,225 \$7,653	\$1,112,553

		Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Carpentry Labor	1994	HRS	81.00	\$161,514		\$161,514	
	Finish Drywall Subcontractor	286489	SF	0.60	\$171,893		\$171,893	
	GPF							
	Wall Type							
	1B	9541	SF	1.40	\$13,357		\$13,357	
	2B	21744	SF	1.40	\$30,442		\$30,442	
	2C	12816		1.40	\$17,942		\$17,942	
	Carpentry Labor		HRS	81.00	\$24,867		\$24,867	
	Metal Stud Framing							
	Hat Channel							
	Wall Type 5A	1885	LF	0.31	\$584		\$584	
	2 1/2 Stud							
	Wall Type 11	570	LF	0.55	\$314		\$314	
	3 5/8 Stud							
	Wall Type							
	1	41084	LF	0.65	\$26,705		\$26,705	
	1B	9541	LF	0.65	\$6,202		\$6,202	
	1C	5553	LF	0.65	\$3,609		\$3,609	
	1D	2786	LF	0.65	\$1,811		\$1,811	
	3	8671	LF	0.65	\$5,636		\$5,636	
	3B	3712	LF	0.65	\$2,413		\$2,413	
	7B	3132		0.65	\$2,036		\$2,036	
	6" Stud				÷)		+)	
	Wall Type							
	2	9692	LF	0.93	\$9,014		\$9,014	
	2B	24882		0.93	\$23,140		\$23,140	
	2C	29725		0.93	\$27,644		\$27,644	
	3A	2711		0.93	\$2,521		\$2,521	
	7A	11774		0.93	\$10,950		\$10,950	
	7B	3132		0.93	\$2,913		\$2,913	
	8" Stud	5152		0.95	ψ2,913		ψ2,913	
	Wall Type 10	2115	16	1.10	\$2,327		\$2,327	
	Carpentry Labor		HRS	81.00	\$357,615		\$357,615	
		4415	TING	81.00	φ357,015		φ357,015	
	Ceilings							
A102		210	SE	0.65	\$137		\$137	
71102	Hat Channel	210		0.00	\$65		\$65	
A139		210		0.65	\$137		\$137	
A155	Hat Channel	210		0.03	\$65		\$65	
A202		210		0.65	\$137		\$137	
7202	Chicago Grid	210		1.25	\$137		\$263	
A225	GWB	210		0.65	\$203		\$137	
MZZ0	Chicago Grid	210		1.25	\$137		\$137	
T400								
T102	GWB		SF SF	0.65	\$50 \$06		\$50	
T407	Chicago Grid			1.25	\$96		\$96	
T107	GWB	2048		0.65	\$1,331		\$1,331	
	Chicago Grid	2048		1.25	\$2,560		\$2,560	
	Carpentry Labor		HRS	81.00	\$7,209		\$7,209	
	Finish Drywall Subcontractor	2965	SF	0.60	\$1,779		\$1,779	
-/					• :		*	
7/A603	3 GWB	108	SF	0.65	\$70		\$70	

		Detailed	l Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
8/A603		204		0.65	\$133		\$133	0
9/A603		201	0.	0.00	 		\$100	
0// 1000	GWB	448	SF	0.65	\$291		\$291	
1&2/				0.00	φ201		φ201	
A702	GWB	3/	SF	0.65	\$22		\$22	
3/A702			SF	0.65	\$59		\$59	
0/11/02	Carpentry Labor		HRS	81.00	\$567		\$567	
	Finish Drywall Subcontractor	884		0.60	\$530		\$530	
		004	51	0.00	φ000		φ000	
7/4603	Steel Studs	108	IE	0.65	\$70		\$70	
	Steel Studs	204		0.65	\$133		\$133	
9/A603		204	LF	0.05	φ100		φ133	
9/A603	Steel Studs	262		0.65	\$170		¢470	
400/		202	LF	0.05	\$170		\$170	
1&2/	Charal Churde			0.05	#00		# ~~	
	Steel Studs		LF	0.65	\$22		\$22	
3/A702	Steel Studs		LF	0.65	\$29		\$29	
	Carpentry Labor	18	HRS	81.00	\$1,458		\$1,458	
	Addendum #5:							
Item 6	2x8 Metal Stud	352		2.36	\$831		\$831	
	5/8 inch Plywood	352		1.30	\$458		\$458	
	Fasteners		LS	35.00	\$35		\$35	
	Carpenter Labor	22	HRS	81.00	\$1,782		\$1,782	
9300	CERAMIC & QUARRY TILE							\$116,625
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Ceramic Tile							
	Rooms							
	T111 Floor	160	SF	12.00	\$1,920		\$1,920	
	T111 Wall	208		12.00	\$2,496		\$2,496	
	T113 Floor	160	SF	12.00	\$1,920		\$1,920	
	T113 Wall	208		12.00	\$2,496		\$2,496	
	T143 Floor	182		12.00	\$2,184		\$2,184	
	T143 Wall	288		12.00	\$3,456		\$3,456	
	T147 Floor	182		12.00	\$2,184		\$2,184	
	T147 Wall	288		12.00	\$3,456		\$3,456	
	A104 Floor		SF	12.00	\$648		\$648	
	A104 Wall	120		12.00	\$1,440		\$1,440	
	A106 Floor		SF	12.00	\$648		\$648	
	A106 Wall	120		12.00	\$1,440		\$1,440	
	A127 Floor	120		12.00	\$1,440		\$1,440	
	A127 Floor A127 Wall	272		12.00	\$2,304		\$2,304	
	A127 Wall A131 Floor		SF	12.00				
		192	SF	12.00	\$2,304	1	\$2,304	1

		Detailed	Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	A131 Wall	272	SF	12.00	\$3,264		\$3,264	
	A206 Floor	54	SF	12.00	\$648		\$648	
	A206 Wall	120	SF	12.00	\$1,440		\$1,440	
	A208 Floor	54	SF	12.00	\$648		\$648	
	A208 Wall	120	SF	12.00	\$1,440		\$1,440	
	A229 Floor	252	SF	12.00	\$3,024		\$3,024	
	A229 Wall	328	SF	12.00	\$3,936		\$3,936	
	A233 Floor	252	SF	12.00	\$3,024		\$3,024	
	A233 Wall	328		12.00	\$3,936		\$3,936	-
	Quarry Tile							
	A100 Floor	2880	SE	15.00	\$43,200		\$43,200	
-	A100 Base	172		15.00	\$2,580		\$2,580	
	A154 Floor	403		15.00	\$6,045		\$6,045	
	A154 Base		LF	15.00	\$990		\$990	
				10.00	4000			
	Slate Window Stools				•		•	
-	Window W1		LF	35.00	\$1,785		\$1,785	
	Window W2		LF	35.00	\$1,260		\$1,260	
	Window W3	114		35.00	\$3,990		\$3,990	
	Window W4		LF	35.00	\$2,940		\$2,940	
	Window W5	9	LF	35.00	\$315		\$315	
9500	ACOUSTICAL CEILINGS							
0000			1-1-1					\$125,559
	Subcontract	1	bid					\$125,559
		1	bid					\$125,559
	Subcontract	1	bid					\$125,559
	Subcontract	1	bid					\$125,559
	Subcontract	1	bid					\$125,559
	Subcontract	1	bid					\$125,559
	Subcontract		bid					\$125,559
	Subcontract Bidders: Guantity Survey:		bid					\$125,559
	Subcontract Bidders: Guantity Survey: Rooms							\$125,559
	Subcontract Bidders: Guantity Survey: Rooms T101	745	SF	3.00	\$2,235		\$2,235	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104	745	SF SF	3.00	\$2,520		\$2,520	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105	745 840 1075	SF SF SF	3.00 3.00	\$2,520 \$3,225		\$2,520 \$3,225	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B	745 745 840 1075 108	SF SF SF SF SF	3.00 3.00 3.00	\$2,520 \$3,225 \$324		\$2,520 \$3,225 \$324	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111	745 745 840 1075 108 160	SF SF SF SF SF SF	3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480		\$2,520 \$3,225 \$324 \$480	\$125,559
	Subcontract Bidders:	745 840 1075 108 160	SF SF SF SF SF SF SF SF SF	3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480		\$2,520 \$3,225 \$324 \$480 \$480	\$125,559
	Subcontract Bidders:	745 840 1075 108 160 160	SF SF SF SF SF SF SF SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324	\$125,559
	Subcontract Bidders:	745 745 840 1075 108 160 160 160 108	SF SF SF SF SF SF SF SF SF SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324	\$125,559
	Subcontract Bidders:	745 745 840 1075 108 160 160 160 108 108 90	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111 T113 T115B T116B T117B T119B	745 745 840 1075 108 160 160 108 108 108 90	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270 \$324	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111 T113 T115B T116B T117B T119B T1120B	745 745 840 1075 108 160 160 108 108 108 108 108 108	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$270 \$324 \$324 \$324	\$125,559
	Subcontract Bidders:	745 745 840 1075 108 160 160 108 108 90 108 108 108 108	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$270 \$324 \$324 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$270 \$324 \$324 \$324 \$324 \$324	\$125,559
	Subcontract Bidders:	745 745 840 1075 108 160 160 108 108 108 108 108 108 108 108	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$270 \$324 \$324 \$324 \$324 \$324 \$324 \$324	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111 T113 T115B T116B T117B T119B T120B T122B T123B T126B	745 840 1075 108 160 160 160 108 108 108 108 108 108 108 108 108	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111 T113 T115B T116B T117B T119B T120B T120B T122B T123B T126B T127	745 745 840 1075 108 160 160 160 108 108 108 108 108 108 108 108 108 10	SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324	\$125,559
	Subcontract Bidders: Quantity Survey: Rooms T101 T104 T105 T109B T111 T113 T115B T116B T117B T119B T120B T122B T123B T126B	745 840 1075 108 160 160 160 108 108 108 108 108 108 108 108 108	SF SF	3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00	\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324		\$2,520 \$3,225 \$324 \$480 \$480 \$324 \$324 \$324 \$324 \$324 \$324 \$324 \$324	\$125,559

		Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	T130B	165		3.00	\$495		\$495	
	T131B	108	SF	3.00	\$324		\$324	
	T132A	126		3.00	\$378		\$378	
	T132B	198		3.00	\$594		\$594	
	T132C	154		3.00	\$462		\$462	
	T133B	108		3.00	\$324		\$324	
	T134	240		3.00	\$720		\$720	
	T136	132		3.00	\$396		\$396	
	T137		SF	3.00	\$243		\$243	
	T138	132		3.00	\$396		\$396	
	T139	117		3.00	\$351		\$351	
	T141	630		3.00	\$1,890		\$1,890	
	T143	182		3.00	\$546		\$546	
	T147	182	SF	3.00	\$546		\$546	
	T149	1886		3.00	\$5,658		\$5,658	
	T157	570		3.00	\$1,710		\$1,710	
	T158	396		3.00	\$1,188		\$1,188	
	T159	280		3.00	\$840		\$840	
	Admin 1st Fl	15513		3.00	\$46,539		\$46,539	
	Admin 2nd Fl	15513	SF	3.00	\$46,539		\$46,539	
0000								.
9600	FLOORING		la i al					\$148,476
	Subcontract Bidders:	1	bid					
	Quantity Survey:							
	VCT							
	Rooms							
	T101	745	SF	2.50	\$1,863		\$1,863	
	T104	840	SF	2.50	\$2,100		\$2,100	
	T105	1075	SF	2.50	\$2,688		\$2,688	
	T109B	108	SF	2.50	\$270		\$270	
	T115B	108		2.50	\$270		\$270	
	T116B	108		2.50	\$270		\$270	
	T117B	90	SF	2.50	\$225		\$225	
	T119B	108		2.50	\$270		\$270	
	T120B	108		2.50	\$270		\$270	
	T122B	108		2.50	\$270		\$270	
	T123B	108	SF	2.50	\$270		\$270	
	T126B	108		2.50	\$270		\$270	
	T127B	798		2.50	\$1,995		\$1,995	
-	T128B	108		2.50	\$270		\$270	
				2.50	\$750	1	\$750	
	T130A	300						
	T130B	165	SF	2.50	\$413		\$413	
			SF SF					

		Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	T132B	198	SF	2.50	\$495		\$495	
	T132C	154		2.50	\$385		\$385	
	T133B	108		2.50	\$270		\$270	
	T134	240	SF	2.50	\$600		\$600	
	T136	132		2.50	\$330		\$330	
	T137	81	SF	2.50	\$203		\$203	
	T138	132		2.50	\$330		\$330	
	T139	117		2.50	\$293		\$293	
	T141	630	SF	2.50	\$1,575		\$1,575	
	T149	1886		2.50	\$4,715		\$4,715	
	T157	570	SF	2.50	\$1,425		\$1,425	
	T158	396	SF	2.50	\$990		\$990	
	T159	280	SF	2.50	\$700		\$700	
	A101	35	SF	2.50	\$88		\$88	
	A116	143	SF	2.50	\$358		\$358	
	A118	88	SF	2.50	\$220		\$220	
	A119	959		2.50	\$2,398		\$2,398	
	A125	25	SF	2.50	\$63		\$63	
	A129		SF	2.50	\$88		\$88	
	A135		SF	2.50	\$63		\$63	
	A141A	285		2.50	\$713		\$713	
	A141B	231		2.50	\$578		\$578	
	A200	450		2.50	\$1,125		\$1,125	
	A204		SF	2.50	\$180		\$180	
	A221	130		2.50	\$325		\$325	
	A227	999		2.50	\$2,498		\$2,498	
	A231		SF	2.50	\$100		\$100	
			•.		<i><i><i></i></i></i>			
A102	Rubber Floor	90	SF	30.00	\$2,700		\$2,700	
	Rubber Treads		EA	50.00	\$1,200		\$1,200	
A225	Rubber Floor		SF	30.00	\$2,700		\$2,700	
	Rubber Treads		EA	50.00	\$1,200		\$1,200	
A100	Rubber Floor		SF	30.00	\$1,080		\$1,080	
	Rubber Treads		EA	50.00	\$1,200		\$1,200	
			_, .	00.00	¢., _ 00		¢ :,=00	
	Carpet							
	Administrative 1st Floor	1426	SY	25.00	\$35,650		\$35,650	
	Administrative 2nd Floor	1523		25.00	\$38,075		\$38,075	
					+ ,		+ ,	
	Vinyl Base							
	Wall Type							
	1	5210	LF	2.25	\$11,723		\$11,723	
	1B	658		2.25	\$1,481		\$1,481	
	10	961		2.25	\$2,162		\$2,162	
	1D	198		2.25	\$446		\$446	
	2	958		2.25	\$2,156		\$2,156	
	2B	1716		2.25	\$3,861		\$3,861	
	2C	2050		2.25	\$4,613		\$4,613	
	3	380		2.25	\$855		\$855	
	3A		LF	2.25	\$203		\$203	
	3B		LF	2.25	\$113		\$113	
	5	330		2.25	\$743		\$743	
	5 5A	130		2.25	\$293		\$293	
	Э A	130	LF	2.25	\$293		\$293	

		Detailed	Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	7A	406		2.25	\$914		\$914	
	7B	108		2.25	\$243		\$243	
	8							
	9							
	10	282	LF	2.25	\$635		\$635	
	11		LF	2.25	\$86		\$86	
9900								¢000.44
9900		- 1	bid					\$232,44
	Subcontract	1	DIQ					
	Bidders:							
	Quantity Survey:							
	Boiler Room CMU Walls	2505	SF	0.65	\$1,628		\$1,628	
3A/A702	26" Wood Cap	18	LF	1.00	\$18		\$18	
	HM Door Over-Sized	12	EA	50.00	\$600		\$600	
	HM Door Regular		EA	40.00	\$280		\$280	
	HM Frames							
	Single Door		EA	40.00	\$2,880		\$2,880	
	Double Door	17	EA	50.00	\$850		\$850	
	Single w/ 2 Windows	11	EA	60.00	\$660		\$660	
	Single w/ 3 Windows		EA	70.00	\$70		\$70	
	Single w/ 1 Full Lite		EA	55.00	\$3,025		\$3,025	
	Single w/ 3 Full Lites	5	EA	85.00	\$425		\$425	
	Window Double		EA	50.00	\$600		\$600	
	2 Full Lites		EA	60.00	\$120		\$120	
	3 Full Lites		EA	75.00	\$150		\$150	
	4 Full Lites	2	EA	85.00	\$170		\$170	
	Seal Concrete Floors	40245	SF	1.00	\$40,245		\$40,245	
	Wall Type	00400	0	0.00	¢40.004		¢40.004	
	1 1B	82168 19082		0.60	\$49,301		\$49,301	
	1B 1C	5553		0.60	\$11,449 \$3,332		\$11,449 \$3,332	
	1D	2786		0.60	\$3,332		\$3,332 \$1,672	
		19344		0.60	\$1,672		\$1,672	
	2 2B	49764		0.60	\$11,606		\$11,606 \$29,858	
	2B 2C	59725		0.60	\$29,858 \$35,835		\$29,858 \$35,835	
	3	17342		0.60	\$35,835		\$35,835 \$10,405	
	3 3A	5422		0.60	\$10,405		\$10,405	
	38 3B	3712		0.60	\$3,253		\$3,253 \$2,227	
	5A	1885		0.60	\$2,227		\$2,227 \$1,131	
		1000	UT 1	0.00		1		1

	E	Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	7B	3132		0.60	\$1,879		\$1,879	
	10	4230		0.60	\$2,538		\$2,538	
	11	570		0.60	\$342		\$342	
	Ceiling	2965	SF	0.60	\$1,779		\$1,779	
7/A603	CIMP	108	0E	0.60	\$65		\$65	
8/A603		204		0.60	\$122		\$122	
9/A603		204	01	0.00	ψιΖΖ		ψιζζ	
	GWB	448	SF	0.60	\$269		\$269	
1&2/								
A702			SF	0.60	\$20		\$20	
3/A702	GWB	90	SF	0.60	\$54		\$54	
A905	Steel Frame - 8" Wide	513	SF	1.50	\$770		\$770	
4000								
A908	MDF Board	000			^		\$ \$\$\$\$	
	P1	938		1.00	\$938		\$938	
	P2 P3	2925 1305		1.00	\$2,925		\$2,925	
	L1	585		1.00	\$1,305		\$1,305	
		265	55	1.00	\$585		\$585	
10000	SPECIALTIES							\$140,293
	Toilet Partitions							
	Vendor, F & D w T		bid					
	Labor to install	75	HRS	81.00	\$6,075		\$6,075	
	Bidders:							
	Quantity Survey:							
A 4 0 7	Toilet Compartments (HD Solid Polyethylene)	-		4 500 00	# 4 500		# 4 500	
A127			EA	1,500.00	\$4,500		\$4,500	
A131	Urinal		EA	300.00	\$300		\$300	
A229	Stall Stall	2	EA EA	1,500.00 1,500.00	\$3,000 \$7,500		\$3,000 \$7,500	
	Urinal		EA	300.00	\$7,500 \$600		\$7,500 \$600	
A200	Stall	2	EA	1,500.00	\$600 \$4,500		\$600	
T111	Urinal		EA	300.00	\$300		\$4,500	
1111	Stall		EA	1,500.00	\$3,000		\$3,000	
T113	Stall		EA	1,500.00	\$4,500		\$3,000	
T143		1	EA	300.00	\$300		\$300	
	Stall	2	EA	1,500.00	\$3,000		\$3,000	
T147	Stall		EA	1,500.00	\$6,000		\$6,000	
	Toilet Accessories							
	Vendor, F & D w T	1	bid					

	I	Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Labor to install	48	HRS	81.00	\$3,888		\$3,888	
	Bidders:							
	Quantity Survey:							
Туре								
1	30" Grab Bar	12	EA	75.00	\$900		\$900	
1	36" Grab Bar		EA	85.00	\$1,020		\$1,020	
2	Mirror (1-8 x 2-6)		EA	85.00	\$1,190		\$1,190	
3	Paper Towel Dispenser		EA	75.00	\$900		\$900	
4	Napkin Disposal		EA	45.00	\$675		\$675	
5	Waste Receptacle		EA	150.00	\$1,800		\$1,800	
6	Tampon Vendor		EA	450.00	\$1,800		\$1,800	
7	Toilet Paper Dispenser		EA	50.00	\$1,400		\$1,400	
8	Soap Dispenser		EA	50.00	\$1,100		\$1,100	
9	Full Height Mirror	12	EA	250.00	\$3,000		\$3,000	
	Fire Extinguishers							
	Vendor, F & D w T	1	bid					
	Labor to install		HRS	81.00	\$1,215		\$1,215	
	Bidders:				÷, -		+ , -	
	Our of the Our							
	Quantity Survey:	10		05.00	¢050		¢050	
	Fire Extinguishers Extinguisher Cabinets		EA EA	85.00 200.00	\$850 \$2,000		\$850 \$2,000	
		10	EA	200.00	\$2,000		\$ 2,000	
	Architectural Louvers							
	Vendor, F & D w T	1	bid					
	Labor to install		HRS	81.00				
	Bidders:							
			-					
	Quantity Survey:		$\left \right $					
	In Manufacturered Building		$\left - \right $					
	in manufacturered building							
			+					
	Marker & Tack Boards, Projection Screens		l – – – – –					

		Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL B
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Vendor, F & D w T	1	bid					
	Labor to install	103	HRS	81.00	\$8,343		\$8,343	
	Bidders:							
	Quantity Survey:							
	Marker Boards							
	48"		EA	320.00	\$320		\$320	
	60''		EA	400.00	\$400		\$400	
	96"		EA	640.00	\$12,160		\$12,160	
	120"		EA	800.00	\$800		\$800	
	144"	9	EA	960.00	\$8,640		\$8,640	
	Tackboards							
	24"		EA	120.00	\$240		\$240	
	36"		EA	180.00	\$2,700		\$2,700	
	48"		EA	240.00	\$7,680		\$7,680	
	60"		EA	300.00	\$2,400		\$2,400	
	72"	2	EA	360.00	\$720		\$720	
	Map Rail/Tack Strip	477	LF	5.00	\$2,385		\$2,385	
	Flag Holder	53	EA	10.00	\$530		\$530	
	Map Hooks	240		5.00	\$1,200		\$1,200	
	Projection Screens		EA	750.00	\$18,000		\$18,000	
	Signage							
	Vendor, F & D w T	1	bid					
	Labor to install		HRS	81.00	\$5,022		\$5,022	
	Bidders:	02		81.00	\$ <u>3</u> ,022		φ0,022	
	Quantity Survey:							
		15	EA	25.00	\$375		\$375	
	Quantity Survey: Shop Vendateria		EAEA	25.00 15.00	\$375 \$30		\$375 \$30	
	Shop	2	EA	15.00	\$30		\$30	
	Shop Vendateria Mezzanine	2	EA EA	15.00 15.00	\$30 \$30		\$30 \$30	
	Shop Vendateria Mezzanine Storage	2 2 4	EA EA EA	15.00 15.00 15.00	\$30 \$30 \$60		\$30 \$30 \$60	
	Shop Vendateria Mezzanine Storage Data	2 2 4 2	EA EA EA EA	15.00 15.00 15.00 15.00	\$30 \$30 \$60 \$30		\$30 \$30 \$60 \$30	
	Shop Vendateria Mezzanine Storage Data Office/Library	2 2 4 2 2 1	EA EA EA EA EA	15.00 15.00 15.00 15.00 25.00	\$30 \$30 \$60 \$30 \$25		\$30 \$30 \$60 \$30 \$25	
	Shop Vendateria Mezzanine Storage Data Office/Library Purchasing Office	2 2 4 2 2 1 1	EA EA EA EA EA EA	15.00 15.00 15.00 25.00 25.00	\$30 \$30 \$60 \$30 \$25 \$25		\$30 \$30 \$60 \$30 \$25 \$25	
	Shop Vendateria Mezzanine Storage Data Office/Library Purchasing Office Office	2 2 4 2 1 1 1 4	EA EA EA EA EA EA EA	15.00 15.00 15.00 25.00 25.00 25.00	\$30 \$60 \$30 \$25 \$25 \$100		\$30 \$60 \$30 \$25 \$25 \$100	
	Shop Vendateria Mezzanine Storage Data Office/Library Purchasing Office Office Janitor	2 2 4 2 1 1 1 4 5	EA EA EA EA EA EA EA EA EA	15.00 15.00 15.00 25.00 25.00 25.00 15.00	\$30 \$60 \$30 \$25 \$25 \$100 \$75		\$30 \$30 \$60 \$25 \$25 \$25 \$100 \$75	
	Shop Vendateria Mezzanine Storage Data Office/Library Purchasing Office Office Janitor Copy	2 2 4 2 1 1 1 4 5 2	EA EA EA EA EA EA EA EA EA EA	15.00 15.00 15.00 25.00 25.00 25.00 15.00 15.00	\$30 \$60 \$25 \$25 \$100 \$75 \$30		\$30 \$30 \$30 \$25 \$25 \$100 \$75 \$30	
	Shop Vendateria Mezzanine Storage Data Office/Library Purchasing Office Office Janitor	2 2 4 2 1 1 1 4 5 2 2 4	EA EA EA EA EA EA EA EA EA	15.00 15.00 15.00 25.00 25.00 25.00 15.00	\$30 \$60 \$30 \$25 \$25 \$100 \$75		\$30 \$30 \$60 \$25 \$25 \$25 \$100 \$75	

F L E F C S L	DESCRIPTION Job Search Receiving Lecture Elevator Machine Room		UNIT MEAS	\$ PER UNIT	TOTAL	-	TOTAL	TOTAL BY
	lob Search Receiving Lecture	1		LINIT	TOTAL	-		
F L E F C S L	Receiving _ecture			UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
L E F C S	_ecture	2	EA	25.00	\$25		\$25	
E // F (S			EA	15.00	\$30		\$30	
A F C S	Elevator Machine Room		EA	25.00	\$75		\$75	
F C S			EA	15.00	\$15		\$15	
(5 L	Admission		EA	15.00	\$30		\$30	
۶ L	Restroom		EA	15.00	\$60		\$60	
L	Conference		EA	15.00	\$30		\$30	
	Staff Lounge		EA	15.00	\$30		\$30	
(_arge Group Room		EA	15.00	\$30		\$30	
	Classroom XXX		EA	25.00	\$275		\$275	
	Faculty Offices		EA	15.00	\$15		\$15	
	Conference		EA	15.00	\$15		\$15	
	Student Store		EA	15.00	\$15		\$15	
	Testing		EA	15.00	\$30		\$30	
	Copy/Mail		EA	15.00	\$15		\$15	
	Student Services		EA	15.00	\$15		\$15	
	-inancial Assistance		EA	15.00	\$15		\$15	
	Office		EA	25.00	\$450		\$450	
	Storage		EA	15.00	\$75		\$75	
,	Server	1	EA	15.00	\$15		\$15	
	Addendum #1 Building Lettering I2" High	25	EA	50.00	\$1,250		\$1,250	
1000								.
								\$49,349
	Roof Scuttle		1.1.1					
	/endor, F & D w T	1	bid	04.00				
	_abor to install Bidders:		HRS	81.00				
	Siduers.							
	Quantity Survey: n Roofing							
	Microwave Shelves		hiel					
	/endor, F & D w T	1	bid	04.00				
	abor to install		HRS	81.00				
	Quantity Survey:							
	n Cabinetry							
	Recessed Display Case							
	/endor, F & D w T		bid					
	_abor to install	8	HRS	81.00	\$648		\$648	
E	Bidders:							

	Detailed	l Esti	imate				
						ΤΟΤΑΙ	TOTAL BY
DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
Quantity Survey:							
Recessed Display Case	1	EA	2,500.00	\$2,500		\$2,500	
Metal Mail Organizer							
Vendor, F & D W I			91.00	¢204		¢224	
Bidders:	4	пко	01.00	324		Φ 324	
Quantity Survey:							
Metal Mail Organizer	1	EA	500.00	\$500		TOTAL ESTIMATE 2 2 2 324 324 324 324 324 324 324 324 324 324 324 324 324 324 324 324 324 32500 3500 <td></td>	
Metal Lockers Vendor, F & D w T	1	bid					
Labor to install			81.00	\$11,259		\$11,259	
Bidders:							
Quantity Survey:							
New Metal Lockers	139	EA	200.00	\$27,800		\$27,800	
Relocate Existing Metal Lockers Vendor, F & D w T	1	bid HRS	81.00	\$6.318		\$6.318	
Bidders:				· · · · · ·		+ - <i>I</i>	
Quantity Survey:							
Relocate Existing Metal Lockers	78	EA					
	Quantity Survey: Recessed Display Case Metal Mail Organizer Vendor, F & D w T Labor to install Bidders: Quantity Survey: Metal Lockers Vendor, F & D w T Labor to install Bidders: Quantity Survey: Metal Lockers Vendor, F & D w T Labor to install Bidders: Quantity Survey: New Metal Lockers Quantity Survey: New Metal Lockers Vendor, F & D w T Labor to install Bidders: Quantity Survey: New Metal Lockers Vendor, F & D w T Labor to install Bidders: Labor to install Bidders:	DESCRIPTION QTY Quantity Survey: Image: Constant of the second of the secon	DESCRIPTION QTY MEAS Quantity Survey: Image: Constraint of the second seco	DESCRIPTIONQTYMEASUNITQuantity Survey:IIIRecessed Display Case1EA2,500.00Metal Mail OrganizerIIIVendor, F & D w T1bidLabor to install4HRS81.00Bidders:IIIMetal Mail OrganizerIIVendor, F & D w TIbidLabor to installIIBidders:IIImage: Strate Strat	UNIT \$ PER MEAS UNIT TOTAL DESCRIPTION QTY MEAS UNIT TOTAL Quantity Survey: 2 2 2 2 Recessed Display Case 1 EA 2,500.00 \$2,500 Metal Mail Organizer 2 2 2 2 Vendor, F & D w T 1 bid 2 2 Labor to install 4 HRS 81.00 \$324 Bidders: 2 2 2 2 Quantity Survey: 2 2 2 2 Metal Mail Organizer 1 EA 500.00 \$500 Metal Mail Organizer 1 EA 500.00 \$500 Metal Lockers 1 bid 2 2 Quantity Survey: 2 2 2 2 Bidders: 1 bid 2 2 2 Quantity Survey: 2 2 2 2 2 2	UNIT \$ PER DESCRIPTION QTY MEAS UNIT TOTAL ADJUST Quantity Survey:	DESCRIPTION OTY UNIT S PER MEAS TOTAL ADJUST ESTIMATE Quantity Survey:

		Detailed	l Esti	mate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	c Laminate Casework							
Subco	ontract	1	bid					
Bidder	'S:							
	ity Survey:							
In Cab	binetry							
13000 Monut	actured Metal Building			[\$1 704 00
	ontract	4	bid					\$1,724,36
Bidder			biu					
Diudei	5.							
			+					
<u> </u>								
Quant	ity Survey:							
Base M	Metal Building	44564	SF	18.48	\$823,543		\$823,543	
	Dpenings Framing		EA	504.00	\$3,024		\$3,024	
	w Openings Framing		EA	511.00	\$31,171		\$31,171	
OH Do	oor Size Opening Framing	25	EA	1,029.00	\$25,725		\$25,725	
					•		• • • • • • •	
L1 Lou			EA	1,500.00	\$19,500		\$19,500	
P1 Wir			EA	250.00	\$6,250		\$6,250	
P2 Wir			EA	300.00	\$19,500		\$19,500	
P3 Wir	ndow	29	EA	300.00	\$8,700		\$8,700	
HM Do	201	7	EA	150.00	¢1 050		¢1 050	
	HM Frame		EA	150.00	\$1,050 \$750		\$1,050 \$750	
Double	e HM Frame		EA	175.00	\$750		\$750	
Hardw			EA	200.00	\$1,400		\$1,400	
	u. u			200.00	ψι,του		ψ1,700	
Roof		45496	SF	8.26	\$375,797		\$375,797	
					. , - '			
Siding		23150	SF	5.97	\$138,206		\$138,206	
Ŭ								
Insulat	lion							
R-20		23150		2.52	\$58,338		\$58,338	
R-30		45496	SF	3.78	\$171,975		\$171,975	
	& Spouting				A		A	
Gutter		718	SF	12.25	\$8,796		\$8,796	
Spouti	ng	456	SF	12.25	\$5,586		\$5,586	
N 4			<u> </u>					
Mezza	Inines	000	OF I	40.40	¢1 = 110		¢1= 110	
T125	Stoiro		SF	18.48	\$15,449		\$15,449 \$2,500	
T125 S	Sidiis	1	EA	2,500.00	\$2,500		\$2,500	

		Detailed	Fet	imoto				
		Detaneu		\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
031	T129	240		18.48	\$4,435	ADJUST	\$4,435	CATEGORT
	T129 Stairs		EA	2,500.00	\$2,500		\$4,435	
				2,300.00	ψ2,500		φ2,300	
14000								\$50,000
14000	Subcontract	1	bid					φ00,000
	Bidders:							
	Quantity Survey:							
	Elevator	2	ST	25,000.00	\$50,000		\$50,000	
15300	FIRE SPRINKLERS							\$194,200
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Control Valve Assemblies		EA	6,000.00	\$12,000		\$12,000	
	Sprinkler Piping	91100	SF	2.00	\$182,200		\$182,200	
	Service is included under site utilities							
15400	PLUMBING							\$665,053
	Subcontract Bidders:	1	bid					
	Quantity Survey: Roof Drains:							
	6 inch Roof Drain		EA	953.00	\$1,906		\$1,906	
	4 inch Roof Drain	Z	EA	953.00 612.00	\$1,906		\$1,906	
	8 inch Cast Iron Pipe with Fittings	160		36.00	\$5,760		\$5,760	
	6 inch Cast Iron Pipe with Fittings	100		23.00	\$2,300		\$2,300	
	8 inch Fiberglass Insulation		LF	50.00	\$2,000		\$2,000	
	6 inch Fiberglass Insulation		LF	43.00	\$3,440		\$3,440	

CSI								
CSI			UNIT	\$ PER			TOTAL	TOTAL BY
	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST		CATEGOR
	Plumber Labor		HRS	96.00	\$5,760		\$5,760 \$34,496 \$15,960 \$6,160 \$12,096 \$8,724 \$5,089 \$3,864 \$865 \$2,595 \$5,750 \$1,650 \$4,830 \$174,336 \$24,120 \$7,590 \$9,412 \$8,657 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$4,360 \$102,240 \$9550 \$10,000 \$6,500 \$1,2,240 \$9,775 \$1,260 \$7,540 \$3,103	
	Fixtures:							
	Water Closet		EA	616.00	\$34,496			
	Water Closet Handicapped		EA	665.00	\$15,960			
	Lavatory		EA	140.00	\$6,160			
	Lavatory Handicapped		EA	504.00	\$12,096			
	Urinal		EA	727.00	\$8,724			
	Urinal Handicapped		EA	727.00	\$5,089			
	Mop Sink		EA	552.00	\$3,864			
	Floor Drain Type A		EA	173.00	\$865			
	Floor Drain Type B		EA	173.00	\$2,595			
	Wall sink		EA	250.00	\$5,750			
	Electric Water Cooler		EA	550.00	\$1,650			
	Electric Water Cooler Handicapped (Hi/Lo)		EA	690.00	\$4,830			
	Plumber Labor (227 Fixtures 8Hrs ea)	1816	HRS	96.00	\$174,336		\$174,336	
	Dursing Warston 0, Marst Direk							
	Drain,Waste & Vent Piping:	070		00.00	04400		COLACO	
	8 inch Cast Iron Pipe with Fittings	670		36.00	\$24,120			
	6 inch Cast Iron Pipe with Fittings	330		23.00	\$7,590			
	4 inch Cast Iron Pipe with Fittings	724		13.00	\$9,412			
	3 inch Cast Iron Pipe with Fittings	787		11.00	\$8,657			
	2 inch Cast Iron Pipe with Fittings	436 640		10.00	\$4,360			
	11/4 inch Type DWV Copper with Fittings			7.75	\$4,960			
	Plumber Labor		HRS TN	96.00	\$102,240			
	Crushed Stone		DAY	19.00	\$950			
	Backhoe with Operating Engineer		DAT	1,000.00 650.00	\$10,000 \$6,500			
	Dumptruck with Driver	10	DAT	650.00	Φ 0,500		ф 0,500	
	Domestic Water Distribution:							
	21/2 inch Type "L" Copper Tubing with Fittings	25	LF	23.00	\$575		\$575	
	2 inch Type "L" Copper Tubing with Fittings	575		17.00	\$9,775			
	11/2 inch Type "L" Copper Tubing with Fittings		LF	14.00	\$1,260			
	11/4 inch Type "L" CopperTubing with Fittings	580		13.00	\$7,540			
	1 inch Type "L" Copper Tubing with Fittings	365		8.50	\$3,103			
	3/4 inch Type "L" Copper Tubing with Fittings	1207		5.50	\$6,639		\$6,639	
	1/2 inch Type "L" Copper Tubing with Fittings	290		4.50	\$1,305		\$1,305	
	Back Flow Preventer		EA	1,519.00	\$1,519		\$1,519	
	Pressure Reducing Valve	1	EA	542.00	\$542		\$542	
	Hot Water Heater Electric 71Gal	1	EA	6,471.00	\$6,471		\$6,471	
	Hot Water Pump	1	EA	1,500.00	\$1,500		\$1,500	
	Storage Tank 100Gal	1	EA	450.00	\$450		\$450	
	Plumber Labor	540	HRS	96.00	\$51,840		\$51,840	
	21/2 inch Fiberglass Insulation Subcontract		LF	17.50	\$438		\$438	
	2 inch Fiberglass Insulation Subcontract		LF	16.00	\$9,200		\$9,200	
	11/2 inch Fiberglass Insulation Subcontract		LF	14.00	\$1,260		\$1,260	
	11/4 inch Fiberglass Insulation Subcontract	580	LF	12.00	\$6,960		\$6,960	
	Case Dimin av							
	Gas Piping:	400		50.00	¢00.000		¢00.000	
	6 inch Schedule 40 Black Steel Pipe with Fittings		LF	52.00	\$22,360		\$22,360	
	4 inch Schedule 40 Black Steel Pipe with Fittings 3 inch Schedule 40 Black Steel Pipe with Fittings		LF	29.00	\$3,625		\$3,625	
	IS INCO SCREDULE 4U BLACK STEEL PIDE WITH FITTINGS	270	LF	21.00	\$5,670		\$5,670	1

	D	etailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST		CATEGORY
	11/4 inch Schedule 40 Black Steel Pipe with Fittings	50	LF	7.00	\$350		\$350	
	Connections	6	EA	200.00	\$1,200		\$1,200	
	Plumber Labor	240	HRS	96.00	\$23,040		\$23,040	
	Commenced Aim							
	Compressed Air: 11/4 inch Schedule 40 Black Steel Pipe with Fittings	20	LF	7.00	\$210		\$210	
	1 inch Schedule 40 black Steel Pipe with Fittings		LF	6.00	\$300		\$300	
	Compressor		EA	2,500.00	\$2,500		\$2,500	
	Plumber Labor		HRS	2,300.00	\$3,072		\$3,072	
					+ -) -		+ -) -	
	Elevator Pit:						•	
	Sump Pump with controls		EA	2,500.00	\$2,500		\$2,500	
	Plumber Labor	8	HRS	96.00	\$768		\$768	
	Addendum #5:							
	Fuel Oil Tank, double wall	1	LS	500.00	\$500		\$500	
	Concrete pad for tank with weatherproof cover	1	LS	1,500.00	\$1,500		\$1,500	
	Fuel Oil Pump, 1/3 HP		EA	300.00	\$300		\$300	
	1/2 inch Schedule 40 Black Steep Pipe with Fittings		LF	5.50	\$220		\$220	
	1 inch Schedule 40 black Steel Pipe with Fittings		LF	7.50	\$300		\$300	
	Plumber Labor	24	HRS	96.00	\$2,304		\$2,304	
	Plumbing Permit	1	LS		\$4,140		\$4,140	
15500	HVAC							\$2,478,314
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Equipment:							
	Energy Recovery Unit 20HP		EA	27,590.00	\$27,590		\$27,590	
	Energy Recovery Unit 25HP		EA	33,635.00	\$33,635		\$33,635	
	Cooling Tower Tons 455		EA	62,620.00	\$62,620		\$62,620	
	Water Chiller Tons 450		EA	220,100.00	\$220,100		\$220,100	
	Exhaust Fan 3PH		EA	11,678.00	\$23,356		\$23,356	
	Exhaust Fan 1PH		EA	5,270.00	\$68,510		\$68,510	
	Supply Fan 3PH		EA	11,678.00	\$11,678		\$11,678	
	Supply Fan 1PH		EA	5,270.00	\$10,540		\$10,540	
	Condenser Water Pump 60HP		EA	41,385.00	\$41,385		\$41,385	
	Chiller Water Pump 40HP		EA	22,630.00	\$22,630		\$22,630	
	Hot Water Pump 25HP		EA	22,630.00	\$22,630		\$22,630	
	Cabinet Unit Heater		EA	2,480.00	\$4,960		\$4,960	
	Air Cooled Condensing Unit Tons 3		EA	4,500.00	\$4,500		\$4,500	
	Air Cooled Condensing Unit Tons 1.5 Split System Air Conditioning Unit		EA	3,500.00	\$14,000		\$14,000 \$22,500	
	Sout System Arr Conditioning Unit	5	EA	4,500.00	\$22,500	1	1000 EUU	1

	D	etailed	l Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	Unit Heater		EA	2,500.00	\$15,000		\$15,000	
	Gas Boiler (Ability to change to oil)		EA	104,625.00	\$209,250		\$209,250	
	Burner Gas/Oil		EA	10,540.00	\$21,080		\$21,080	
	Fin Tube Radiation 8FT		EA	415.00	\$415		\$415	
	Fin Tube Radiation 7FT		EA	363.00	\$363		\$363	
	Fin Tube Radiation 6.5FT		EA	338.00	\$338		\$338	
	Fin Tube Radiation 6FT		EA	311.00	\$311		\$311	
	Fin Tube Radiation 5.5FT		EA	286.00	\$286		\$286	
	Relief Air Vent		EA	1,309.00	\$5,236		\$5,236	
	Blower Coil Unit 2HP		EA	1,750.00	\$1,750		\$1,750	
	Blower Coll Unit 1.5HP		EA	1,500.00	\$1,750		\$1,750	
	Blower Coll Unit 1HP		EA		\$2,600		\$1,500	
				1,300.00				
	Blower Coil Unit 3/4HP		EA	1,250.00	\$10,000		\$10,000	
	Blower Coil Unit 1/2HP		EA	1,150.00	\$44,850		\$44,850	
	Air Handling Unit 7.5HP		EA	15,655.00	\$46,965		\$46,965	
	Air Handling Unit 5HP		EA	10,501.00	\$105,010		\$105,010	
	Air Handling Unit 3HP		EA	6,277.00	\$31,385		\$31,385	
	Air Handling Unit 2HP	1		5,037.00	\$5,037		\$5,037	
	Flue Stack 20Dia		LF	166.00	\$3,320		\$3,320	
	Flue Stack 28Dia		LF	329.00	\$13,160		\$13,160	
	Expansion Tank Amtrol Model AX100V		EA	1,860.00	\$1,860		\$1,860	
	5 Gallon Chemical Tank ARC 5		EA	527.00	\$1,054		\$1,054	
	Air Separator Amtrol Model 6-AS-I	2	EA	450.00	\$900		\$900	
	Refrigerant Leak Detector Montor	1	EA	4,000.00	\$4,000		\$4,000	
	10 gallon No2 Fuel Oil Storage Tank	2	EA	1,500.00	\$3,000		\$3,000	
	Air Curtain 1/2HP 16KW	1	EA	7,905.00	\$7,905		\$7,905	
	T-stat		EA	125.00	\$8,375		\$8,375	
	Sheetmetal Worker Labor		HRS	96.00	\$129,600		\$129,600	
	Steamfitter Labor		HRS	96.00	\$129,600		\$129,600	
	Rigging and Hoisting		LS	5,000.00	\$5,000		\$5,000	
		•	20	0,000.00	<i>Q0,000</i>		\$0,000	
	Hydronic Piping:							
	8 inch Schedule 40 Black Steel Pipe with Fittings	500	LE	65.00	\$32,500		\$32,500	
	6 inch Schedule 40 Black Steel Pipe with Fittings	1320		52.00	\$68,640		\$68,640	
	4 inch Schedule 40 Black Steel Pipe with Fittings	970		29.00	\$28,130		\$08,040	
		375		29.00	\$7,875		\$28,130	
	3 inch Schedule 40 Black Steel Pipe with Fittings							
	21/2 inch Schedule 40 Black Steel Pipe with Fittings			20.00	\$1,680		\$1,680	
	2 inch Schedule 40 Black Steel Pipe with Fittings	3340		18.00	\$60,120		\$60,120	
	11/2 inch Schedule 40 Black Steel Pipe with Fittings			10.00	\$15,250		\$15,250	
	11/4 inch Schedule 40 Black Steel Pipe with Fittings			7.00	\$17,465		\$17,465	
	1 inch Schedule 40 Black Steel Pipe with Fittings	1890		6.00	\$11,340		\$11,340	
	3/4 inch Schedule 40 Black Steel Pipe with Fittings	1200		4.50	\$5,400		\$5,400	
	Steamfitter Labor		HRS	96.00	\$115,200		\$115,200	
	8 inch Fiberglass Insulation Subcontract	260		50.00	\$13,000		\$13,000	
	6 inch Fiberglass Insulation Subcontract	1320		43.00	\$56,760		\$56,760	
	4 inch Fiberglass Insulation Subcontract	970		30.00	\$29,100		\$29,100	
	3 inch Fiberglass Insulation Subcontract	375	LF	28.00	\$10,500		\$10,500	
	21/2 inch Fiberglass Insulation Subcontract	84	LF	21.00	\$1,764		\$1,764	
	2 inch Fiberglass Insulation Subcontract	3340		20.00	\$66,800		\$66,800	
	11/2 inch Fiberglass Insulation Subcontract	1525		19.00	\$28,975		\$28,975	
	11/4 inch Fiberglass Insulation Subcontract	1890		17.50	\$33,075		\$33,075	
	11/4 Inch Fibergiass insulation Subcontract	1030		11.001	ψυυ.υ.υ		ψ00.010	

	D	etailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
	Air Distribution:							
	Sheetmetal, Fabricated and Delivered with Insulatio	21312.5	LBS	5.50	\$117,219		\$117,219	
	GRD Damper Assemblies	54	EA	345.00	\$18,630		\$18,630	
	Spiral Metal Duct 30 inches Dia	50	LF	48.00	\$2,400		\$2,400	
	Spiral Metal Duct 26 inches Dia	150	LF	24.00	\$3,600		\$3,600	
	Spiral Metal Duct 20 inches Dia	30	LF	18.00	\$540		\$540	
	Spiral Metal Duct 18 inches Dia	70	LF	14.50	\$1,015		\$1,015	
	Spiral Metal Duct 16 inches Dia	230	LF	12.00	\$2,760		\$2,760	
	Spiral Metal Duct 14 inches Dia	30	LF	10.00	\$300		\$300	
	Spiral Metal Duct 12 inches Dia	395		9.50	\$3,753		\$3,753	
	Spiral Metal Duct 10 inches Dia	430		8.00	\$3,440		\$3,440	
	Spiral Metal Duct 8 inches Dia	600		7.50	\$4,500		\$4,500	
	Spiral Metal Duct 6 inches Dia		LF	5.00	\$200		\$200	
	Exhaust Hood 6ftx3ft		EA	400.00	\$400		\$400	
	Exhaust Hood 12ftx3ft		EA	800.00	\$800		\$800	
	Sheetmetal Worker Labor	1200	HRS	96.00	\$115,200		\$115,200	
	Building Automation System	91100	SF	2.00	\$182,200		\$182,200	
16000	ELECTRICAL							\$2,773,039
	Subcontract	1	bid					
	Bidders:							
	Quantity Survey:							
	Temporary Supply:				.		•	
	Electric	91100	SF	0.25	\$22,775		\$22,775	
	Service:						•	
	4" PVC Sch 40 Conduit for CATV	650		12.56	\$8,164		\$8,164	
	4" PVC Sch 40 Conduit for Phone	1000		12.65	\$12,650		\$12,650	
	6'x6'x6' Concrete Precast Manhole Phone		EA	2,054.00	\$2,054		\$2,054	
	Concrete Precast Manhole PECO		EA	2,054.00	\$4,108		\$4,108	
	Transformer Concrete Pad		EA	2,500.00	\$2,500		\$2,500	
	Emergency Generator Concrete Pad		EA	3,000.00	\$3,000		\$3,000	
	15KV HV Switch Concrete Pad		EA	2,500.00	\$2,500		\$2,500	
	3 4" Sch 40 Conduit Concrete Encased	1650		24.45	\$40,343		\$40,343	
	2 Set 3-15kv#2CU with/100% Concentric Neutral	1100		302.00	\$332,200		\$332,200	
	15KV HV Switch Outside		EA	31,000.00	\$31,000		\$31,000	
	1500/1680 KVA Transformer 55/65 Deg C		EA	97,650.00	\$97,650		\$97,650	
	10 4" PVC Sch 40 Conduit Concrete Encased	1000		24.45	\$24,450		\$24,450	
	8 Set 4#500+3/0GND	960		273.00	\$262,080		\$262,080	
	Pull Section		EA	1,899.00	\$1,899		\$1,899	
	Metering Section with TVSS		EA	18,755.00	\$18,755		\$18,755	
	2500AMP 480V Distribution Section		EA	6,472.00	\$6,472		\$6,472	
	150KVAR Auto Power Factor Capacitors	1	EA	5,580.00	\$5,580		\$5,580	

		Detailed	l Esti	imate				
			UNIT	\$ PER			TOTAL	TOTAL B
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	112.5KVA Transformer	1	EA	6,587.00	\$6,587		\$6,587	
	75KVA Transformer	2	EA	4,960.00	\$9,920		\$9,920	
	50KVA Transformer	3	EA	3,294.00	\$9,882		\$9,882	
	45KVA Transformer	1	EA	3,294.00	\$3,294		\$3,294	
	30KVA Transformer	3	EA	2,752.00	\$8,256		\$8,256	
	15KVA Transformer		EA	2,325.00	\$11,625		\$11,625	
	125KW Diesel Generator with Day Tank		EA	46,500.00	\$46,500		\$46,500	
	260AMP Transfer Switch		EA	8,603.00	\$17,206		\$17,206	
	800AMP 480/277V Panel		EA	5,348.00	\$10,696		\$10,696	
	225AMP 480/277V Panel		EA	3,875.00	\$27,125		\$27,125	
	100AMP 480/277V Panel		EA	2,093.00	\$6,279		\$6,279	
	250AMP 208/120V Panel		EA	2,596.00	\$7,788		\$7,788	
	225AMP 208/120V Panel		EA	2,596.00	\$33,748		\$33,748	
	100AMP 208/120V Panel		EA	1,356.00	\$24,408		\$24,408	
	80AMP 208/120V Panel		EA	977.00	\$4,885		\$4,885	
	Grounding System		EA	8,900.00	\$8,900		\$8,900	
	Electrician Labor		HRS	99.00	\$118,800		\$118,800	
	Rigging and Hoisting		LS	5,000.00	\$5,000		\$5,000	
	Backhoe with Operating Engineer		DAY	1,000.00	\$10,000		\$10,000	
	Dumptruck with Driver		DAY	650.00	\$6,500		\$6,500	
		10		030.00	\$0,500		\$0,500	
	Panelboard & Equipment Feeders:							
	600AMP Panel Feeder	250	LF	110.00	\$27,500		\$27,500	
	400AMP Panel Feeder	175	LF	55.00	\$9,625		\$9,625	
	250AMP Panel Feeder	200	LF	35.00	\$7,000		\$7,000	
	225AMP Panel Feeder	900	LF	35.00	\$31,500		\$31,500	
	200AMP Panel Feeder	100	LF	30.00	\$3,000		\$3,000	
	175AMP Panel Feeder	120	LF	20.00	\$2,400		\$2,400	
	150AMP Panel Feeder	350	LF	17.00	\$5,950		\$5,950	
	125AMP Panel Feeder	120	LF	13.00	\$1,560		\$1,560	
	100AMP Panel Feeder	420	LF	12.00	\$5,040		\$5,040	
	30AMP Equipment Feeder	3000		17.00	\$51,000		\$51,000	
	20AMP Equipment Feeder	3000		12.00	\$36,000		\$36,000	
	Electrician Labor		HRS	99.00	\$198,000		\$198,000	
					•••••		+ ,	
	Fixtures and Devices:							
	First Floor Fixture List				.		• • • • • • • •	
	2x4 Type B1,B2,C1		EA	112.00	\$38,752		\$38,752	
	1X4 Type A2,A3,C2		EA	81.00	\$9,315		\$9,315	
	1X4 Type A1		EA	73.50	\$16,905		\$16,905	
	Type EE1		EA	125.00	\$3,125		\$3,125	
	Type D1		EA	85.00	\$1,360		\$1,360	
	Type D2		EA	85.00	\$510		\$510	
	Type G1		EA	100.00	\$1,000		\$1,000	
	Type N1		EA	1,000.00	\$6,000		\$6,000	
	Туре М1		EA	109.00	\$654		\$654	
	Type L1		EA	291.00	\$7,566		\$7,566	
	Type L2		EA	291.00	\$873		\$873	
	Type L3	4	EA	291.00	\$1,164		\$1,164	
	Exit Lights	34	EA	125.00	\$4,250		\$4,250	
	Second Floor Fixture List							
	2x4 Type B1,B2,C1	267	EA	112.00	\$29,904		\$29,904	
	2x2 Type B3	2	EA	330.00	\$660		\$660	

	D	Detailed	l Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
	1x4 Type F1		EA	81.00	\$324		\$324	
	Type EE1		EA	125.00	\$375		\$375	
	Type D1		EA	85.00	\$1,020		\$1,020	
	Type M1		EA	109.00	\$327		\$327	
	Exit Lights	8	EA	125.00	\$1,000		\$1,000	
	Devices	1225	EA	20.00	\$24,500		\$24,500	
	Floor Devices	12	EA	250.00	\$3,000		\$3,000	
	Wall Switch	105	EA	20.00	\$2,100		\$2,100	
	Occupancy Senser Ceiling	68	EA	125.00	\$8,500		\$8,500	
	Occupancy Senser Wall	70	EA	125.00	\$8,750		\$8,750	
	LCD Ceiling Mounted Projector	16	EA	1,000.00	\$16,000		\$16,000	
	Amplifier fo Projector	16	EA	750.00	\$12,000		\$12,000	
	Lighting Controller with Relays	18	EA	750.00	\$13,500		\$13,500	
	Photocell	1	EA	125.00	\$125		\$125	
	Wiremold with 34 outlets		LF	25.00	\$2,250		\$2,250	
	Emergency Shut-Down Pushbutton		EA	250.00	\$4,250		\$4,250	
	Electrician Labor		HRS	99.00	\$398,574		\$398,574	
			-		,			
	Communications System:							
	Ceiling Mounted Speaker	83	EA	102.00	\$8,466		\$8,466	
	Headend Equipment		EA	1,500.00	\$1,500		\$1,500	
	Phone or Computer Outlets		EA	25.00	\$4,875		\$4,875	
	T.V. Outlets		EA	25.00	\$100		\$100	
	Phone Floor Box		EA	50.00	\$150		\$150	
	Wiremold with 29 Phone Boxes		LF	15.00	\$1,350		\$1,350	
	12" Cable Tray	453		20.00	\$9,060		\$9,060	
	1/4"x2"x24" Ground Copper Bar		EA	45.00	\$135		\$135	
	4" Conduit Sleeve		EA	10.00	\$20		\$20	
	3" Conduit Sleeve		EA	10.00	\$40		\$40	
	8'x4' Plywood for Telephone Rooms		EA	75.00	\$2,250		\$2,250	
	RG-11 Cable	3000		3.50	\$10,500		\$10,500	
	WAP		EA	50.00	\$850		\$850	
	Electrician Labor		HRS	99.00	\$39,600		\$39,600	
		400	1113	33.00	\$39,000		ψ39,000	
	Wireless Clock System:							
	Wireless Master Transmitter	1	EA	16,300.00	\$16,300		\$16,300	
	GPS Receiver		EA	400.00	\$400		\$400	
	Wireless Tone Generator		EA	400.00	\$400		\$400	
	Primex 14480 Software		EA	300.00	\$300		\$300	
	Clock Mrimex Model 14155		EA	125.00	\$8,875		\$8,875	
	Clock Mrimex Model 14153 Clock Mrimex Model 14163 (Trade Work Shops)		EA	125.00	\$3,375		\$3,375	
	Electrician Labor		HRS	99.00	\$13,860		\$13,860	
		140	1113	33.00	ψ10,000		ψ13,000	
	Fire Alarm System:							
	Main Fire Alarm Panel	1	EA	1,000.00	\$1,000		\$1,000	
	Booster Panel		EA	1,000.00	\$3,000		\$3,000	
	Remote Annunciiator Panel		EA	1,000.00	\$1,000		\$1,000	
	Horn/Strobe		EA	150.00	\$11,850		\$1,000	
	Strobe		EA	150.00	\$5,100		\$5,100	
	Smoke Detector		EA	150.00	\$2,250		\$3,100	
	Smoke Detector		EA	150.00	\$2,250		\$2,250 \$9,150	
	Heat Detector		EA	150.00	\$9,150		\$9,150	
	Pull Station	15		150.00	\$2,250		\$2,250	

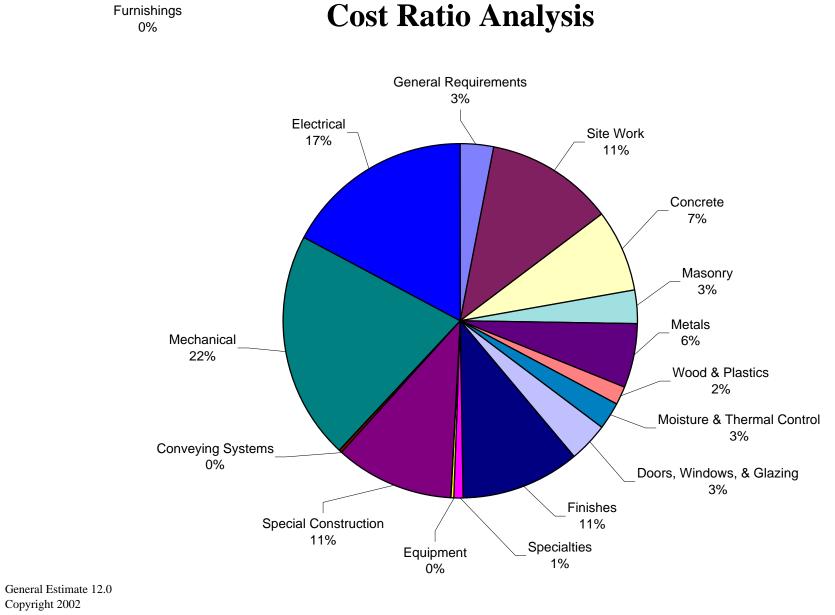
DESCRIPTION		UNIT					
 DESCRIPTION		UNIT	\$ PER			TOTAL	TOTAL B
	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGOR
Tamper Switch		EA	150.00	\$750		\$750	
Flow Switch		EA	150.00	\$450		\$450	
Elevator Recall		EA	150.00	\$450		\$450	
Gas Shut Off Valve	2	EA	250.00	\$500		\$500	
Emergency Generator		EA	150.00	\$300		\$300	
Testing System	24	HRS	99.00	\$2,376		\$2,376	
Electrician Labor	320	HRS	99.00	\$31,680		\$31,680	
Site Lighting:							
Fixture Type AA1	7	EA	1,500.00	\$10,500		\$10,500	
Fixture Type BB1	7	EA	1,500.00	\$10,500		\$10,500	
Fixture Type BB2	3	EA	1,500.00	\$4,500		\$4,500	
Fixture Type BB3		EA	1,500.00	\$9,000		\$9,000	
Fixture Type DD!		EA	495.00	\$8,415		\$8,415	
Sign (by others)		EA	500.00	\$500		\$500	
Concrete Base		EA	450.00	\$18,450		\$18,450	-
1" PVC Sch 40 Conduit with 4#10	2750		21.00	\$57,750		\$57,750	
Photocell		EA	125.00	\$375		\$375	
Lighting Controller		EA	750.00	\$1,500		\$1,500	
Electrician Labor		HRS	99.00	\$15,840		\$15,840	
Backhoe with Operating Engineer		DAY	950.00	\$9,500		\$9,500	-
	10		930.00	ψ9,500		ψ9,500	
Workshop Power:							
3P-20AMP CB with NEMA 15-20R	10	EA	350.00	\$6,300		\$6,300	
1P-20AMP CB with NEMA 5-20R		EA	250.00	\$13,000		\$13,000	
2P-20AMP CB with NEMA 6-20R		EA	250.00	\$2,250		\$2,250	
Loadcenter 12Circuit 120/240V 1PH 3W		EA	500.00	\$3,000		\$3,000	
Loadcenter 28Circuit 120/240V 1PH 3W		EA	750.00	\$750		\$750	
1P-30AMP Disconnect with 20AMP Fuses		EA	250.00	\$3,250		\$3,250	
2P-60AMP CB Disconnect with GFI NEMA 4X Box		EA	250.00	\$4,750		\$4,750	
Loadcenter 12Circuit 120/240V 1PH 3W		EA	500.00	\$11,500		\$11,500	
3P-30AMP Disconnect with Indicator Light		EA	350.00	\$3,500		\$3,500	
2P-30AMP Disconnect with Indicator Light		EA	350.00	\$700		\$700	
3P-30AMP Disconnect		EA	250.00	\$250		\$250	
2P-30AMP CB Disconnect with Indicator Light		EA	350.00	\$2,450		\$2,450	
2P-60AMP CB Disconnect with Indicator Light	4	EA	450.00	\$1,800		\$1,800	
1P-30AMP Disconnect with 20AMP Fuses		EA	175.00	\$350		\$350	
2P-30AMP Disconnect with 20AMP Fuses		EA	350.00	\$700		\$700	
1P-20AMP Disconnect with 20AMP Fuses		EA	250.00	\$250		\$250	
Nema 15-20R		EA	100.00	\$600		\$600	
Overhead Door		EA	350.00	\$1,400		\$1,400	
 Nema L16-20P 480V 3P		EA	200.00	\$200		\$200	
Electrician Labor	640	HRS	99.00	\$63,360		\$63,360	
				. .			
 Motor Hoists, installed (4 units total)	1	LS	43,200.00	\$43,200		\$43,200	
 (located in Room T116A)							
 Electrical Permit	4	EA	7,500.00	\$7,500		\$7,500	
Underwriter Inspection		EA		\$7,500 \$5,000			
	1	EA	5,000.00	ΦD,000		\$5,000	<u> </u>

		Detailed	Est	imate				
			UNIT	\$ PER			TOTAL	TOTAL BY
CSI	DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE	CATEGORY
1000	GENERAL REQUIREMENTS		1 1			1		\$502,150
1000	Superintendant (full time)	2090	HRS	85.00	\$176,800		\$176,800	\$502,150
	Project Manager (half time)		HRS	65.00			\$178,800	
	General Cleanup Labor (half time)		HRS	65.00			\$67,600	
	Job Trailer		MOS	500.00			\$6,000	
	Cargo Container		MOS	200.00			\$0,000	
	Portable Toilet		MOS	250.00			\$2,400	
	Temporary Protection		LS	5,000.00			\$5,000	
	Temporary Heating		MOS	5,000.00			\$5,000	
	Temporary Electric & Water		MOS	250.00			\$10,000	
	Small Tools		MOS	250.00			\$3,000	
	Project Sign		EA	750.00			\$3,000	
	Dumpsters for General Clean-up	104		600.00			\$62,400	
	Temporary Job Fence	1500		4.00			\$6,000	
	Printing		lf LS	4.00				
			LS LS	750.00			\$10,000 \$750	
	Photographs As-Built Drawings		LS LS	3,500.00				
			LS LS				\$3,500	
	Final Cleaning			15,000.00			\$15,000	
	Job Phone and Fax		MOS	350.00			\$4,200	
	Permits & Permit Expediting		LS	45,150.00			\$45,150	
	CPM Scheduling		LS	5,000.00			\$5,000	
	Quality Control & Testing	1	LS	5,000.00	\$5,000		\$5,000	
				т	OTAL DIREC	T COSTS:	\$16,038,138	\$16,038,138
					GC FEE:	8.00%	¢1 000 054	
				то			\$1,283,051	
				10	TAL BASE E	STIMATE:	\$17,321,189	
			DU					
			BÛ	ILDER'S CO	NTINGENCY:		\$47.004.400	-
						subtotal:	\$17,321,189	
				Perform	ance & Paym	ent Bonds:	\$173,212	1.00%
					CDAN	D TOTAL :	\$17,494,401	
					GRAN	D TOTAL :	ψ11,434,4UI	<u> </u>

Square Foot Analysis

Building Square Footage: 91,100

General Requirements	\$502,150	\$5.51	per SF
Site Work	\$1,844,280	\$20.24	per SF
Concrete	\$1,199,410	\$13.17	per SF
Masonry	\$522,989	\$5.74	per SF
Metals	\$933,478	\$10.25	per SF
Wood & Plastics	\$259,333	\$2.85	per SF
Moisture & Thermal Control	\$409,098	\$4.49	per SF
Doors, Windows, & Glazing	\$557,124	\$6.12	per SF
Finishes	\$1,735,660	\$19.05	per SF
Specialties	\$140,293	\$1.54	per SF
Equipment	\$49,349	\$0.54	per SF
Furnishings	\$0	\$0.00	per SF
Special Construction	\$1,724,369	\$18.93	per SF
Conveying Systems	\$50,000	\$0.55	per SF
Mechanical	\$3,337,567	\$36.64	per SF
Electrical	\$2,773,039	\$30.44	per SF
TOTAL DIRECT COSTS:	\$16,038,138	\$176.05	per SF
GC FEE:	\$1,283,051	\$14.08	per SF
TOTAL BASE ESTIMATE:	\$17,321,189	\$190.13	per SF
BUILDER'S CONTINGENCY:	\$0	\$0.00	per SF
subtotal:	\$17,321,189	\$190.13	per SF
Performance & Payment Bonds:	\$173,212	\$1.90	per SF
GRAND TOTAL :	\$17,494,401	\$192.04	per SF



		f Alte		I		TOTAL
DESCRIPTION	QTY	UNIT MEAS	\$ PER UNIT	TOTAL	ADJUST	TOTAL ESTIMATE
Alternate #1: Add Acoustic Ceilings in Tra	-	IVIEA5	UNIT	TOTAL	ADJUST	ESTIMATE
Rooms	ues					
T109A	2028	SE.	2.00	\$6,084		¢6.094
T109A T115A	2028		3.00			\$6,084
T116A	1355		3.00 3.00	\$7,992 \$4,065		\$7,992
T117A	2368		3.00	\$4,065 \$7,104		\$4,065 \$7,104
T118A	2368		3.00	\$7,104		\$4,800
T119A	944		3.00	\$4,800		\$4,800
T120A	944 1480		3.00	1 /		\$2,832
T120A T121A	1480			\$4,440 \$2,540		
			3.00	\$3,540		\$3,540
T122A	2696		3.00	\$8,088		\$8,088
T123A	1112		3.00	\$3,336		\$3,336
T126A	2496		3.00	\$7,488		\$7,488
T128A	2440		3.00	\$7,320		\$7,320
T131A	2646		3.00	\$7,938		\$7,938
T133A	2708	SF	3.00	\$8,124		\$8,124
Subtotal, Costs before General Requirements						\$83,151
General Requirements	109	%				\$8,315
Subtotal, Bare Cost						\$91,466
Fee	109	6				\$9,147
TOTAL						\$100,613
Alternate #2:Add Acoustic Insulation in Tr	adas			I		1
Wall Types Insulation at Trades	aucs					
1B	9429	SE	0.35	\$3,300		\$3,300
2	9692		0.72	\$6,978		\$6,978
2B	24882		0.72	\$17,915		\$17,915
2C	29725		0.72	\$21,402		\$21,402
3	5101		0.35	\$1,785		\$1,785
3A	1689		0.72	\$1,216		\$1,216
3B	1268		0.35	\$444		\$444
1	3800		0.35	\$1,330		\$1,330
Carpentry Labor		HRS	81.00	\$39,690		\$39,690
	+30	11110	01.00	ψ09,090		\$33,030
Fiberglass Insulation	46597	SE	0.72	\$33,550		\$33,550
Carpentry Labor		HRS	81.00	\$22,437		\$22,437
			01.00	φ <u>22</u> , 101		φ22,101
Subtotal, Costs before General Requirements						\$150,048
General Requirements	109	6				\$15,005
Subtotal, Bare Cost						\$165,052
Fee	109	6				\$16,505
TOTAL						\$181,557
Alternate #3:Add insulation 1st FI Admin						
Wall Types						
1	25552		0.35	\$8,943		\$8,943
1D		SF	0.35	\$44		\$44
3	1624	SE	0.35	\$568		\$568

DESCRIPTION 3A 10 11 Carpentry Labor	QTY 812 2016 280	UNIT MEAS	PER UNIT	TOTAL		TOTAL
3A 10 11	812 2016 280			ΤΟΤΔΙ		
10 11	2016 280	SF			ADJUST	ESTIMATE
11	280		0.72	\$585		\$585
	280	SF	0.72	\$1,452		\$1,452
Carpentry Labor		SF	0.35	\$98		\$98
	155	HRS	81.00	\$12,555		\$12,555
				. ,		. ,
Subtotal, Costs before General Requirements						\$24,245
General Requirements	109	%				\$2,424
Subtotal, Bare Cost						\$26,669
Fee	109	%				\$2,667
TOTAL						\$29,336
Alternate #4:Add Insulation 2nd Fl Admin						1
Wall Types						
l	11732		0.35	\$4,106		\$4,106
1B						
1D	1274		0.35	\$446		\$446
2	84		0.72	\$60		\$60
2B						
3	1946		0.35	\$681		\$681
3A	210		0.72	\$151		\$151
3B	588		0.35	\$206		\$206
Carpentry Labor	80	HRS	81.00	\$6,480		\$6,480
Subtotal, Costs before General Requirements						\$12,131
General Requirements	109)/				\$1,213
Subtotal, Bare Cost	10,	/0				\$13,344
Fee	109	2/-				\$1,334
TOTAL	10.					\$14,678
Alternate #5:Add Folding Partition						
4/A104						
GWB	480	SF	0.65	\$312		\$312
Steel Studs	120		0.65	\$78		\$78
Finisher		SF	0.60	\$144		\$144
Carpentry Labor		HRS	81.00	\$1,296		\$1,296
Painting		SF	0.60	\$144		\$144
30X9 Folding Partition		EA	20,000.00	\$20,000		\$20,000
						A C() = :
Subtotal, Costs before General Requirements						\$21,974
General Requirements	109	%				\$2,197
Subtotal, Bare Cost						\$24,171
Fee	109	%				\$2,417
TOTAL						\$26,589
Alternate #6:Add GWB above 12' in Trades	<u>S</u>					
Nall Types2B	29172		0.65	\$18,962		\$18,962

Sche	dule o	f Alte	ernates			
		UNIT	\$ PER			TOTAL
DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE
2C	17425		0.65	\$11,326	7,20001	\$11,326
Carpentry Labor		HRS	81.00	\$26,244		\$26,244
Drywall Finishing Subcontractor	46597		0.60	\$27,958		\$27,958
Painting	46597		0.60	\$27,958		\$27,958
	+0007		0.00	φ21,000		φ21,500
Subtotal, Costs before General Requirements						\$112,448
General Requirements	10%	6				\$11,245
Subtotal, Bare Cost						\$123,693
Fee	109	6				\$12,369
TOTAL						\$136,063
Alternate #7:Add FRP in Corridors						
FRP	2088	SF	1.45	\$3,028		\$3,028
Carpentry Labor	24	HRS	81.00	\$1,944		\$1,944
					
Subtotal, Costs before General Requirements						\$4,972
General Requirements	10%	6				\$497
Subtotal, Bare Cost						\$5,469
Fee	10%	6				\$547
TOTAL						\$6,016
Alternate #8:Hardware Schedule #2	100		450.00	.		A 04,000
Electric Hardware Sets	136		450.00	\$61,200		\$61,200
Electrical Supplies	136		50.00	\$6,800		\$6,800
Electrician Labor	272	HRS	99.00	\$26,928		\$26,928
Subtotal, Costs before General Requirements						\$94,928
General Requirements	109	6				\$9,493
Subtotal, Bare Cost	107					\$104,421
Fee	109	6				\$10,442
TOTAL						\$114,863
Alternate #9:Add Architectural Landscapir	ng					
Korean Fire		EA	182.00	\$182		\$182
Drooping Leucothoe		EA	182.00	\$546		\$546
Large Leaf Hosta		EA	22.00	\$484		\$484
Dogwood		EA	126.00	\$630		\$630
Paper Bark Maple		EA	182.00	\$182		\$182
White Pine		EA	182.00	\$1,638		\$1,638
Lambs Ear		EA	22.00	\$1,540		\$1,540
Red Twig Doogwood		EA	77.00	\$2,464		\$2,464
Star Magnolia		EA	182.00	\$546		\$546
Japanese Laurel		EA	162.00	\$648		\$648
Euontmus Japonica		EA	185.00	\$370		\$370
Oak Leaf hydrangea		EA	43.00	\$387		\$387
Blue Lilly Turf	182		18.00	\$3,276		\$3,276
Paper Birch		EA	185.00	\$925		\$925

Schee	dule o	f Alte	ernates			
		UNIT	\$ PER			TOTAL
DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE
Daffodil Bulbs	500	EA	5.00	\$2,500		\$2,500
Black Eyed Susan	10	EA	18.00	\$180		\$180
Rhodedendron	13	EA	53.00	\$689		\$689
Laborer	160	HRS	65.00	\$10,400		\$10,400
Subtotal, Costs before General Requirements						\$27,587
General Requirements	109	%				\$2,759
Subtotal, Bare Cost						\$30,346
Fee	109	%				\$3,035
TOTAL						\$33,380
Alternate #10:Change to Stylewall II Fluted	<u> </u>					
Deduct Insulated Siding	23150	SF	-8.49	(\$196,544)		(\$196,544)
Add Stylewall II Fluted	23150		5.97	\$138,206		\$138,206
Add 9 inch Insulation	23150		2.52	\$58,338		\$58,338
No savings!						
Subtotal, Costs before General Requirements General Requirements Subtotal, Bare Cost	109	<mark>%</mark>				
Fee	109	%				
TOTAL						
Alternate #11:Delete Translucent Panel P3	<u> </u>					
Deduct Window P3	20	EA	-300.00	(\$8,700)		(\$8,700)
Deduct Framing		EA	-365.00	(\$10,585)		(\$10,585)
Add Insulated Siding	1066		8.49	\$9,050		\$9,050
Subtotal, Costs before General Requirements						(\$10,235)
General Requirements						
Subtotal, Bare Cost Fee						(\$10,235)
TOTAL						(\$10,235)
				1		
Alternate #12:Add Two Floor Drains						
Floor Drains		EA	650.00	\$1,300		\$1,300
Pipe and Fittings		LS	1,000.00	\$1,000		\$1,000
Plumber Labor	24	HRS	94.00	\$2,256		\$2,256
Subtotal, Costs before General Requirements General Requirements	109	<u> </u>				\$4,556 \$456
Subtotal, Bare Cost	10.					\$5,012

			ernates			
		UNIT	\$ PER			TOTAL
DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE
Fee	109	%				\$501
TOTAL						\$5,513
Alternate #13:Hardwired Master Clock						
Control panel	1	EA	4,500.00	\$4,500		\$4,500
Wall Clock	98	EA	125.00	\$12,250		\$12,250
Cable	2000		4.50	\$9,000		\$9,000
Electrician Labor		HRS	99.00	\$15,840		\$15,840
						0 44 500
Subtotal, Costs before General Requirements	4.00					\$41,590
General Requirements	109	/o				\$4,159
Subtotal, Bare Cost	4.00					\$45,749
Fee TOTAL	109	/o				\$4,575 \$50,324
TOTAL						\$50,324
Alternate #14:Add CCTV System						-
Camera Interior		EA	745.00	\$19,370		\$19,370
Camera Exterior Waterproof		EA	930.00	\$18,600		\$18,600
Video Recorder		EA	605.00	\$605		\$605
Monitor		EA	605.00	\$605		\$605
RG-6U Coax Cable	1000		17.50	\$17,500		\$17,500
Electrician Labor	160	HRS	99.00	\$15,840		\$15,840
Security System:						
Security Server Dell 1850		EA	4,000.00	\$4,000		\$4,000
Securtiy Computer Dell Precision 490	1	EA	1,500.00	\$1,500		\$1,500
Intrusion Detection System:						
RX Exit Switch		EA	60.00	\$1,620		\$1,620
DC Door Switch		EA	60.00	\$1,860		\$1,860
CR Card Reader		EA	517.00	\$4,136		\$4,136
MD Motion Detector		EA	231.00	\$3,234		\$3,234
Security Keypad		EA	1,210.00	\$1,210		\$1,210
Security Siren		EA	148.00	\$296		\$296
Bosch Security System model D9412G (DAC)	1	EA	5,500.00	\$5,500		\$5,500
18 AWG CAT 6 Plenum rated cable	2000	LF	17.50	\$35,000		\$35,000
Electrician Labor	160	HRS	99.00	\$15,840		\$15,840
Subtotal, Costs before General Requirements						\$146,716
General Requirements	109					\$146,716
Subtotal, Bare Cost	105	0				\$14,672
	109					
Fee TOTAL	105	/0				\$16,139 \$177,526
Alternate #15:Change to Insulated OH Doo	rs					
OH Coiling Doors with Insulation	3	EA	1,000.00	\$3,000		\$3,000

Sche	dule o	f Alt	ernates			
		UNIT	\$ PER			TOTAL
DESCRIPTION	QTY	MEAS	UNIT	TOTAL	ADJUST	ESTIMATE
Subtotal, Costs before General Requirements						\$3,000
General Requirements	109	1				\$3,000
Subtotal, Bare Cost	10,					\$3,300
Fee	109	%				\$330
TOTAL						\$3,630
Alternate #16:Eliminate Motor Hoists	1					1
(located in Room T116A)						
Motor Hoists, installed (4 units total)	1	LS	-43,200.00	(\$43,200)		(\$43,200)
						(\$ 10,000)
Subtotal, Costs before General Requirements						(\$43,200
General Requirements Subtotal, Bare Cost						(@ 40,000
Fee						(\$43,200
TOTAL						(\$43,200
Alternate #17:Add Roller Shades		1				
Roller Shades						
Windows						
W1	17	EA	180.00	\$3,060		\$3,060
W2		EA	255.00	\$3,060		\$3,060
W3	19	EA	360.00	\$6,840		\$6,840
W4	14	EA	510.00	\$7,140		
W5		EA	180.00	\$540		\$540
Carpentry Labor	65	HRS	81.00	\$5,265		\$5,265
Subtotal, Costs before General Requirements						\$18,765
General Requirements	109	1				\$1,877
Subtotal, Bare Cost	10,					\$20,642
Fee	109	%				\$2,064
TOTAL						\$22,706
						<i> </i>

Notes from the Estimator

- 1 The designation "F&DwT" indicates furnished and delivered with tax. Labor is not included. The designation "F&I" indicates a subcontract item which is furnished and installed. The
- subcontractor has included the materials sales tax in his price.
 Labor rates are based upon the Philadelphia Area collective bargaining ageements for wages and benefits scheduled to take effect on May 1, 2006. Line item labor represents a composite direct
- 3 cost of the ratio of 1 foreman to 3 journeymen, and includes the wages, benefits, and the employer's Labor rates represent the current "buy" rate that a builder would pay specialty subcontractors on an
- 4 hourly basis. The rates include a reasonable allowance for the subcontractors' overhead and profit.

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