

**DDESS Facility Survey, Fort Knox, KY
Van Voorhis Elementary School
Engineers' Opinion of Probable Cost**

03-8111-02
28-Aug-03



Cost Markups & Multipliers:	
General Contractor Overhead, Profit & Bond	25.00%
Area Multiplier	1.07
Escalation from 2001 to 2004	8.86%
Contingency	15.00%
Total Multiplier For FY 04 Costs	1.67

Ref.	Description	Quantity	Unit	Unit Price	Mult.	Total
Immediate Upgrades						
3.2.5.1	Install Backflow Device on Domestic Water (Boiler)	1	ea	\$11,700.00	1.67	\$20,000
3.2.5.3	Replace/Repair Sanitary Sewer Service at Media	4000	sf	\$6.00	1.67	\$40,000
3.2.5.3	Install Grease Trap for Kitchen Waste	1	ea	\$10,000.00	1.67	\$17,000
3.2.5.5	Provide Markingfor Electrical Service to Building	1	ls	\$2,000.00	1.67	\$3,000
3.3.3.1	Repair Damaged Masonry Veneer	4766	sf	\$15.00	1.67	\$120,000
3.5.1	Repair Leak at Chiller	1	ls	\$3,000.00	1.67	\$5,000
3.5.1	Repair / Replace Controls	627	pts	\$500.00	1.67	\$525,000
3.5.1	Replace Boiler Pumps and Associated Piping	1	ls	\$60,000.00	1.67	\$100,000
3.5.2.2	Replace Hot Water Heater	1	ls	\$5,000.00	1.67	\$8,000
3.6.1	Provide Accessible Interior Transitions (lift)	4	ea	\$16,000.00	1.67	\$107,000
3.6.1	Provide Signage at Interior Exits	1	ls	\$1,000.00	1.67	\$2,000
3.6.9	Provide Hardscape Play Surface at Each Play Group	1	ls	\$35,000.00	1.67	\$59,000
3.6.1	Provide Accessible Route of Travel to Parking	450	lf	\$50.00	1.67	\$38,000
3.6.2	Provide ADA Accessible Curb Cuts and Van Parking	1	ls	\$5,000.00	1.67	\$8,000
3.6.3	Replace Interior Door Hardware	68	ea	\$475.00	1.67	\$54,000
3.6.5	Provide Accessible Public Toilets incl. Finishes	7	fix	\$5,000.00	1.67	\$62,000
3.6.6	Provide ADA Accessible Drinking Fountains	8	ea	\$1,350.00	1.67	\$18,000
3.7.1	Fire Sprinkler System (Janitor and Stage)	4182	sf	\$5.00	1.67	\$35,000
3.7.2	Emergency Shutoffs and Shunt Trip Breakers	1	ls	\$4,000.00	1.67	\$7,000
3.7.2	Install Visual Fire Alarm Signals	83646	sf	\$0.35	1.67	\$49,000
3.7.3	Upgrade Corridor Envelope	5855	sf	\$4.00	1.67	\$39,000
3.7.6	Provide Emergency Lighting in all Egress Corridors	58552	sf	\$0.50	1.67	\$49,000
Subtotal Immediate Upgrades						\$1,365,000
Long-Term Maintenance Items						
3.2.2	Replace Parking Lot Surfacing and Curbs (Partial)	1328	sy	\$18.00	1.67	\$40,000
3.2.3	Replace Concrete Walks (Partial)	4902	sf	\$3.65	1.67	\$30,000
3.2.3	Replace Covered Walks (Partial)	2042	sf	\$4.50	1.67	\$15,000
3.2.4	Repair Damaged Equipment and Surfacing	1	ls	\$5,000.00	1.67	\$8,000
3.3.3.1	Repair/Replace Stucco or EIFS (Café and Gym)	2383	sf	\$10.00	1.67	\$40,000
3.3.3.5	Replace Coping or Parapet Caps	340	lf	\$15.00	1.67	\$9,000
3.3.4	Replace Roofing at Original Building	58552	sf	\$6.00	1.67	\$588,000
3.4.1	Replace Finishes after ACM Abatement	7658	sf	\$4.00	1.67	\$51,000
3.5.2.3	Replace Plumbing Fixtures and Connections	30	fix	\$2,000.00	1.67	\$99,000
3.5.3.1	Replace Service & Distribution Panels (Partial)	58552	sf	\$1.50	1.67	\$147,000
3.5.3.3	Additional Fluorescent Interior T-8 Ballasted, Lighting	58552	sf	\$3.50	1.67	\$343,000
3.5.3.4	Repair/Addition of Exterior Wall Packs	1	ls	\$3,000.00	1.67	\$5,000
3.5.3.4	Parking Lot Lighting	1	ls	\$15,000.00	1.67	\$25,000
3.5.3.4	Replace Soffit Lighting	1	ls	\$2,000.00	1.67	\$3,000
3.6.3	Provide ADA Accessible Route to Aux Entrances	40	ea	\$1,500.00	1.67	\$99,000
3.6.8	Provide Chair lift	1	ea	\$8,000.00	1.67	\$13,000
3.6.4	Provide ADA Signage	83646	sf	\$0.35	1.67	\$49,000
3.6.5	Provide Accessible Staff Toilets incl. Finishes	7	fix	\$5,000.00	1.67	\$62,000
3.8	Remove Non-Friable ACM	1	ls	\$53,700.00	1.67	\$90,000
Subtotal Long-Term Maintenance Items						\$1,716,000
Total Immediate & Long-Term Upgrades						\$3,081,000