

**DDESS Facility Survey, Quantico Virginia  
Burrows Elementary School  
Engineers' Opinion of Probable Cost**

03-8111-02  
12/10/03



<b>Cost Markups &amp; Multipliers:</b>	
General Contractor Overhead, Profit & Bond	25.00%
Area Multiplier	0.98
Escalation from 2002 to 2004	8.86%
Contingency	25.00%
<b>Total Multiplier For FY 04 Costs</b>	<b>1.67</b>

Ref.	Description	Quantity	Unit	Unit Price	Mult.	Total
<b>Immediate Upgrades</b>						
3.2.8.1	Install Backflow Device on Domestic Water	1	ls	\$11,700.00	1.67	\$20,000
3.2.8.6	Replace Pneumatic Control Valve on Steam Exchanger	1	ea	\$7,350.00	1.67	\$12,000
3.3.3.4	Replace Damaged Gyp Entry Soffit	1000	sf	\$4.50	1.67	\$8,000
3.3.3.5	Repair Roof Leaks around Parapet	5040	sf	\$2.00	1.67	\$17,000
3.3.4	Replace Flat Roof EPDM and Provide Overflow Drains	2500	sf	\$6.00	1.67	\$25,000
3.5.1	Provide Access. Route to Parking	150	lf	\$105.00	1.67	\$26,000
3.5.2	Provide ADA Accessible Curb Cuts and Van Parking	1	ls	\$5,000.00	1.67	\$8,000
3.5.3	Provide Accessible Route to Main Entry	50	lf	\$50.00	1.67	\$4,000
3.5.5	Provide ADA Accessible Public Toilets	4	ea	\$5,000.00	1.67	\$33,000
3.5.6	Provide ADA Accessible Drinking Fountains	4	ea	\$1,350.00	1.67	\$9,000
3.5.9	Provide Accessible Walkways to Playsurfaces	1200	sf	\$3.25	1.67	\$7,000
3.5.9	Provide Hardscape Play Surface at Each Play Group	1	ls	\$35,000.00	1.67	\$58,000
3.6.2.1	Install Grease Trap for Kitchen Waste	1	ea	\$10,000.00	1.67	\$17,000
3.6.2.2	Relief for Combustion Air, Correct Fault Cond. @ HWH	1	ls	\$2,500.00	1.67	\$4,000
3.6.2.3	Add Plaster Trap to Art Room Sink	3	ea	\$500.00	1.67	\$3,000
3.6.2.4	Relocate Fire Alarm Panel Away From Gas Meter	1	ls	\$2,500.00	1.67	\$4,000
3.6.3.1	Install Insulation on Steam Piping and Exchanger	1200	lf	\$6.00	1.67	\$12,000
3.6.3.3	Replace Damaged Walk-in Cooler	1	ea	\$4,187.50	1.67	\$7,000
3.6.3.4	Reconstruct Exterior Gymnasium Exposed Ductwork	1	ls	\$5,000.00	1.67	\$8,000
3.6.3.4	Replace Non-Functioning Exhaust Fans	4	ea	\$562.50	1.67	\$4,000
3.6.3.4	Improve Fresh Air Makeup System	4	ea	\$10,000.00	1.67	\$67,000
3.6.4.4	Exterior Security Lighting	1	ls	\$2,000.00	1.67	\$3,000
3.8.10	Fix Incorrect Exit Signs	1	ls	\$1,000.00	1.67	\$2,000
3.8.2	Install Visual Fire Alarm Signals and Smoke Detectors	42	ea	\$106.25	1.67	\$7,000
3.8.2.2	Replace Kitchen Hood for Life Safety Compliance	1	ea	\$30,000.00	1.67	\$50,000
3.8.7	Firestop all penetrations in Separation Walls	1600	lf wall	\$10.00	1.67	\$27,000
3.8.8	Replace Exit Door Hardware	55	ea	\$475.00	1.67	\$44,000
<b>Subtotal Immediate Upgrades</b>						<b>\$486,000</b>
<b>Long-Term Maintenance Items</b>						
3.2.4	Replace Parking Lot Surfacing	667	sy	\$18.00	1.67	\$20,000
3.2.5	Replace Damaged Concrete Walks	900	sf	\$3.65	1.67	\$5,000
3.3.3.1	Replace Masonry Joint Sealant	400	lf	\$6.00	1.67	\$4,000
3.3.3.4	Replace Stucco Soffits	400	sf	\$5.50	1.67	\$4,000
3.3.4	Replace Composition Shingles	25200	sf	\$4.00	1.67	\$168,000
3.5.3	ADA Compliant Hardware on All Doors to Accessible Sp.	45	ea	\$475.00	1.67	\$36,000
3.5.3	Provide Accessible Routes from All Entry/Exit Doors	150	lf	\$105.00	1.67	\$26,000
3.5.4	ADA Room Signage	41918	sf	\$0.35	1.67	\$24,000
3.6.2.3	Replace Defective Plumbing Fixtures	4	fix	\$2,000.00	1.67	\$13,000
3.6.4.2	Properly Hang MC Cable Above Ceiling and Attach to Hanger	1	ls	\$20,000.00	1.67	\$33,000
<b>Subtotal Long-Term Maintenance Items</b>						<b>\$333,000</b>
<b>Total Immediate &amp; Long-Term Upgrades</b>						<b>\$819,000</b>