

**DDESS Facility Survey, United States Military Academy
West Point Elementary School, West Point, NY
Engineers' Opinion of Probable Cost**

03-8111-02

28-Aug-03



Cost Markups & Multipliers:	
General Contractor Overhead, Profit & Bond	25.00%
Area Multiplier	1.4
Escalation from 2001 to 2004	8.86%
Contingency	15.00%
Total Multiplier For FY 04 Costs	2.19

Ref.	Description	Quantity Unit	Unit Price	Mult.	Total
Immediate Upgrades					
3.2.1	Provide Additional Parking Area	0 sy	\$21.00	2.19	\$0
3.2.5.1	Install Backflow Device on Domestic Water	1 ea	\$11,700.00	2.19	\$26,000
3.3.3.4	Replace Damaged Soffit	1 ls	\$5,000.00	2.19	\$11,000
3.3.4	Repair Roof Leaks and Downspouts, Replace Flashing	77475 sf	\$0.50	2.19	\$85,000
3.5.3.4	Repair/Addition of Exterior Lighting	1 ls	\$7,000.00	2.19	\$15,000
3.5.3.4	Repair/Addition of Soffit Lighting	1 ls	\$2,000.00	2.19	\$4,000
3.5.3.4	Parking Lot Lighting	1 ls	\$3,000.00	2.19	\$7,000
3.6.1	Provide Accessible Route of Travel from Parking	200 lf	\$50.00	2.19	\$22,000
3.6.2	Provide ADA Accessible Parking	1 sf	\$2,500.00	2.19	\$5,000
3.6.3	Replace Interior Door Hardware	18 ea	\$1,200.00	2.19	\$48,000
3.6.5	Provide Accessible Fixtures along Public Route	4 ea	\$5,000.00	2.19	\$44,000
3.6.6	Provide ADA Accessible Drinking Fountains	4 ea	\$1,350.00	2.19	\$12,000
3.7.1	Fire Sprinkler System (Stage)	1 ls	\$7,000.00	2.19	\$15,000
3.7.1	Fire Extinguishers	1 ls	\$5,000.00	2.19	\$11,000
3.7.2	Fire Alarm System, Smoke Detectors	1 ls	\$5,000.00	2.19	\$11,000
3.7.2	Install Visual Fire Alarm Signals	77475 ea	\$0.35	2.19	\$59,000
3.7.2	Provide Annunciators at Designated Areas	77475 ea	\$0.05	2.19	\$8,000
3.7.3	Upgrade Corridor Firestopping	7748 sf	\$4.00	2.19	\$68,000
3.7.4	Provide Area Separation Doors	6 ea	\$2,000.00	2.19	\$26,000
3.8.0	Abate Friable Asbestos	1 ls	\$3,000.00	2.19	\$7,000

Subtotal Immediate Upgrades \$484,000

Long-Term Maintenance Items

3.2.5.4	Install Steam Meter	1 ea	\$3,000.00	2.19	\$7,000
3.3.3.1	Repair Damaged Masonry Veneer	205 sf	\$15.00	2.19	\$7,000
3.3.4	Replace Roofing (BUR or Ballasted EPDM)	77475 sf	\$6.00	2.19	\$1,018,000
3.5.2.3	Replace Plumbing Fixtures and Connections	57 fix	\$2,000.00	2.19	\$250,000
3.6.1	Provide ADA Accessible Handrails at Stairs	1 ls	\$5,000.00	2.19	\$11,000
3.6.3	Provide ADA Accessible Entrances	2 ea	\$8,000.00	2.19	\$35,000
3.6.3	Provide ADA Accessible Interior Doors	20 ea	\$475.00	2.19	\$21,000
3.6.4	Provide ADA Signage	77475 sf	\$0.35	2.19	\$59,000
3.6.7	Provide Accessible Staff Toilets incl. Finishes	4 fix	\$5,000.00	2.19	\$44,000
3.6.7	Provide Accessible Classroom Toilets incl. Finishes	4 fix	\$5,000.00	2.19	\$44,000
3.8.0	Remove Non-Friable ACM	1 ls	\$184,500.00	2.19	\$404,000
3.6.8	Provide Chair lift	1 ea	\$8,000.00	2.19	\$18,000

Subtotal Long-Term Maintenance Items \$1,918,000

Total Immediate & Long-Term Upgrades \$2,402,000