



**Marshall Elementary School  
3100 Fort Lincoln Drive NE  
Washington, DC**

**Comprehensive Facility Condition Assessment  
And Space Utilization Study  
DCAM-12-NC-0158**

**March 1, 2013**

**Submitted to:**

**Ms. Cassandra White  
Capital Program Financial & Systems Manager  
Department of General Services – Construction Division  
2000 14th Street NW, 8th Floor  
Washington, DC 20009**

**4tell™ Solutions, LP  
15 Franklin St  
Portland, ME 04101  
207.828.7900  
www.4tellsolutions.com**



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## Marshall Elementary School

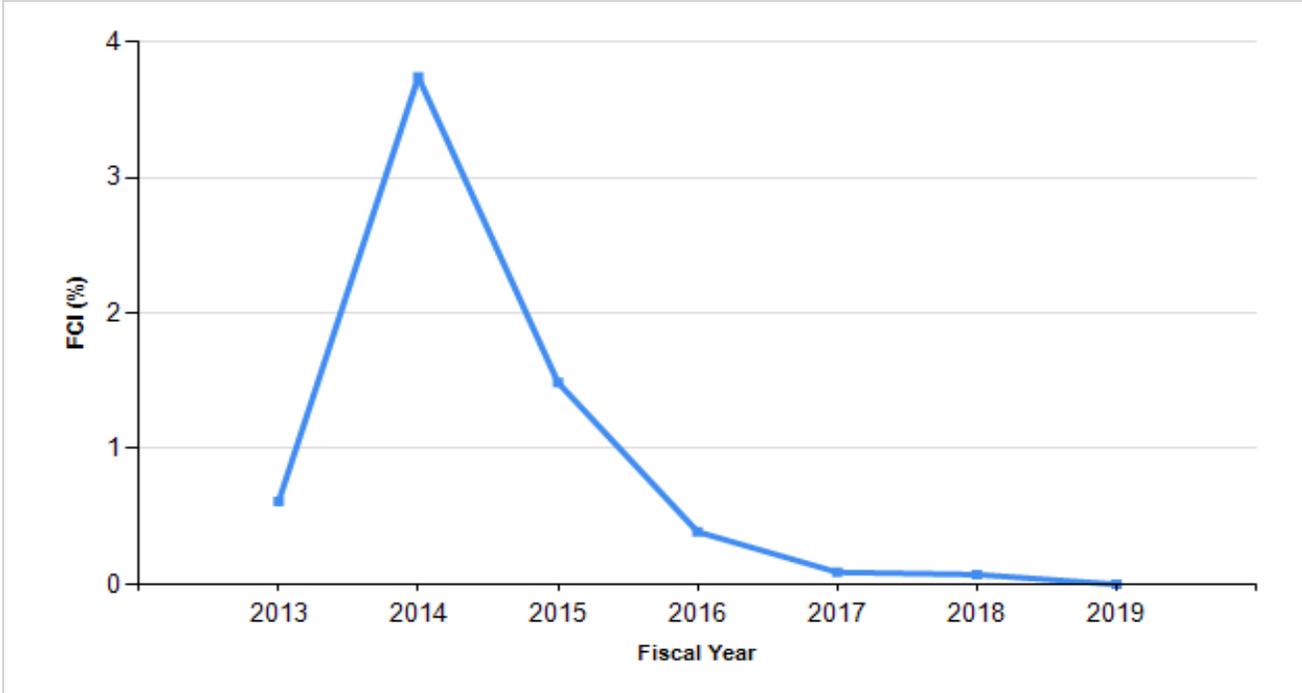
**Date Assessed: 10/22/2012**

**Assessed By: Jill Orlov, Spencer Raiskin**

# DCPS PCA Property Rollup



## Facility Condition Index (FCI) by Year for Marshall Elementary School



# DCPS PCA Property Rollup



## Capital Expenditures for Marshall Elementary School

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
							\$		0	1	2	3	4	5	6	
<b>A. SUBSTRUCTURE</b>																
<b>A. SUBSTRUCTURE SUB-TOTALS</b>									\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>B. SHELL</b>																
B10	SUPERSTRUCTURE															
B1032	Replace/repair damaged column	Fair	75	0	1.00	LS	\$5,000.00	Deferred Maintenance	\$5,000							\$5,000
B20	EXTERIOR ENCLOSURE															
B2011	Clean, patch, repoint and seal exterior masonry	Poor - Fair	75	1	16,561.00	SF	\$3.50	Deferred Maintenance		\$57,964						\$57,964
B2011	Replace the sealant at the perimeter base of the building at grade	Poor	10	1	1.00	EACH	\$18,000	Deferred Maintenance		\$18,000						\$18,000
B2011	Replace damaged stucco and repair spalled concrete	Poor	60	1	4,152.00	SF	\$14.98	Deferred Maintenance		\$62,199						\$62,199
B2023	Replace steel framed windows with double paned units and screens at operable units	Poor	50	1	8,300.00	SF	\$14.98	Deferred Maintenance		\$124,334						\$124,334
B2032	Replace Doors - solid exterior	Fair	30	2	52.00	EACH	\$2,495.00	Capital Replacement			\$129,740					\$129,740
B30	ROOFING															
B3011	Replace roof	Poor - Fair	15	0	37,560.00	SF	\$5.90	Deferred Maintenance	\$221,604							\$221,604
B3011	Replace	Poor	50	0	260.00	SF	\$44.94	Deferred Maintenance	\$11,684							\$11,684
B3014	Seal all exposed joints of coping	Fair	30	1	1,400.00	LF	\$15.97	Deferred Maintenance		\$22,358						\$22,358
B3021	Replace	Poor - Fair	30	1	120.00	SF	\$39.94	Deferred Maintenance		\$4,793						\$4,793
<b>B. SHELL SUB-TOTALS</b>									\$238,288	\$289,647	\$129,740	\$0	\$0	\$0	\$0	\$657,676
<b>C. INTERIORS</b>																
C20	STAIRS															
C2011	Provide headroom protection	Poor	15	0	2.00	EACH	\$100.00	Deferred Maintenance	\$200							\$200
C30	INTERIOR FINISHES															
C3024	Refinish floor	Good	5	2	4,400.00	SF	\$5.00	Capital Replacement			\$22,000					\$22,000
C3032	Replace ceiling grid throughout due to staining and age	Poor - Fair	20	1	83,040.00	SF	\$12.22	Deferred Maintenance		\$1,014,749						\$1,014,749
<b>C. INTERIORS SUB-TOTALS</b>									\$200	\$1,014,749	\$22,000	\$0	\$0	\$0	\$0	\$1,036,949
<b>D. SERVICES</b>																
D10	CONVEYING SYSTEMS															
D1011	Replace elevator controls, machinery and cab	Poor - Fair	35	0	1.00	EACH	\$22,628.05	Deferred Maintenance	\$22,628							\$22,628
D1013	Replace Stair Lift	Fair	15	2	1.00	EACH	\$18,600.00	Capital Replacement			\$18,600					\$18,600
D20	PLUMBING															
D2011	Replace Toilets - typically wall mounted	Fair - Good	35	3	50.00	EACH	\$1,940.00	Capital Replacement				\$97,000				\$97,000
D2012	Replace Urinal - typically wall mounted	Fair - Good	35	3	14.00	EACH	\$1,235.00	Capital Replacement				\$17,290				\$17,290
D2013	Replace Lavatory - wall hung	Fair - Good	35	3	33.00	EACH	\$1,400.00	Capital Replacement				\$46,200				\$46,200
D2016	Replace Floor mounted group sink	Fair - Good	20	3	2.00	EACH	\$6,825.29	Capital Replacement				\$13,651				\$13,651
D2042	Replace roof drain, piping and repair interior finishes as needed	Poor - Fair	15	1	300.00	LF	\$14.98	Deferred Maintenance		\$4,494						\$4,494
D30	HVAC															

**Capital Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
D3021	Replace Heating boilers	Fair	40	2	17,724.00	MBH	\$20.00	Capital Replacement			\$354,480					\$354,480
D3022	Replace Circulation Pump/Motors 20 HP and 25 HP	Fair	15	5	4.00	EACH	\$7,500.00	Capital Replacement						\$30,000		\$30,000
D3041	Replace Central AHU - Constant Volume	Fair	25	2	4.00	EACH	\$20,000.00	Capital Replacement			\$80,000					\$80,000
D3042	Replace Exhaust Fans for gym	Fair	15	2	3.00	EACH	\$5,000.00	Capital Replacement			\$15,000					\$15,000
D3052	Replace Univent - Supplemental Cooling and Heating	Fair	20	2	30.00	EACH	\$1,600.00	Capital Replacement			\$48,000					\$48,000
D50	<b>ELECTRICAL SYSTEMS</b>															
D5011	Replace Main electrical service - 4000 amps	Fair	30	1	1.00	EACH	#####	Capital Replacement		\$200,000						\$200,000
D5012	Replace Federal Pacific panelboards - 277/480 volts, 225 amp	Fair	30	1	20.00	EACH	\$5,000.00	Capital Replacement		\$100,000						\$100,000
D5022	Replace lighting with more efficient fixtures	Poor - Fair	20	1	1,100.00	EACH	\$200.00	Deferred Maintenance		\$220,000						\$220,000
D5022	Replace Light - H.P. Sodium Fixture	Poor - Fair	20	2	75.00	EACH	\$1,015.82	Capital Replacement			\$76,187					\$76,187
D5037	Replace alarm panel and add strobe alarms throughout school	Poor - Fair	15	0	1.00	EACH	\$10,000.00	Deferred Maintenance	\$10,000							\$10,000
<b>D. SERVICES SUB-TOTALS</b>									\$32,628	\$524,494	\$592,267	\$174,141	\$0	\$30,000	\$0	\$1,353,529
<b>E. EQUIPMENT &amp; FURNISHING</b>																
E10	<b>EQUIPMENT</b>															
E1093	Replace Commercial kitchen equipment	Fair - Good	#VALUE!	3	1.00	LS	\$15,000.00	Capital Replacement				\$15,000				\$15,000
<b>E. EQUIPMENT &amp; FURNISHING SUB-TOTALS</b>									\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000
<b>F. SPECIAL CONSTRUCTION AND DEMOLITION</b>																
<b>F. SPECIAL CONSTRUCTION AND DEMOLITION SUB-TOTALS</b>									\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>G. BUILDING SITEWORK</b>																
G20	<b>SITE IMPROVEMENTS</b>															
G2022	Seal coat and restripe	Fair - Good	6	3	27,600.00	SF	\$0.15	Capital Replacement				\$4,140				\$4,140
G2025	Replace sign previously knocked down and removed	Poor	#VALUE!	1	1.00	EACH	\$120.00	Deferred Maintenance		\$120						\$120
G2031	Replace damaged or missing pavers as tripping hazards	Poor - Fair	40	0	1,000.00	SF	\$13.40	Deferred Maintenance	\$13,400							\$13,400
G2031	Replace vertically displaced and deteriorated sidewalk	Poor - Fair	25	0	2,280.00	SF	\$8.28	Deferred Maintenance	\$18,878							\$18,878
G2033	Replace settling/sloped top steps on south and east sides of amphitheater seating	Poor - Fair	75	1	400.00	SF	\$87.00	Deferred Maintenance		\$34,800						\$34,800
G2034	Replace Epoxy coating on bridge	Fair - Good	#VALUE!	5	1,875.00	SF	\$3.00	Capital Replacement						\$5,625		\$5,625
G2043	Repair or replace brick site walls with metal fencing	Poor - Fair	#VALUE!	1	250.00	LF	\$25.00	Deferred Maintenance		\$6,250						\$6,250
G2047	Replace Rubber playground surface	Fair - Good	10	4	4,000.00	SF	\$11.10	Capital Replacement					\$44,400			\$44,400
G40	<b>SITE ELECTRICAL UTILITIES</b>															
G4021	Replace fixtures loose from wall	Poor - Fair	#VALUE!	0	5.00	EACH	\$500.00	Deferred Maintenance	\$2,500							\$2,500
<b>G. BUILDING SITEWORK SUB-TOTALS</b>									\$34,778	\$41,170	\$0	\$4,140	\$44,400	\$5,625	\$0	\$130,113
<b>Z. GENERAL</b>																
<b>Z. GENERAL SUB-TOTALS</b>									\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Expenditure Totals per Year</b>									\$305,895	\$1,870,060	\$744,007	\$193,281	\$44,400	\$35,625	\$0	\$3,193,267
<b>FCI† By Year</b>									0.61%	3.74%	1.49%	0.39%	0.09%	0.07%	0.00%	
<b>CRV*** \$49,988,313</b>																

**Notes**

- \* - EUL is the Estimated Useful Life of an Asset
- \*\* - RUL is the Remaining Useful Life of an Asset
- \*\*\* - Non-Escalated and Non-Inflated Adjusted Dollars
- † - FCI Formula (As Currently Programmed):  
(Deferred Maintenance + Capital Renewal + Capital Replacement)/(Building Replacement Value)

# DCPS PCA Property Rollup



## Routine Maintenance Expenditures for Marshall Elementary School

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
							\$		0	1	2	3	4	5	6	
<b>A. SUBSTRUCTURE</b>																
A10	<b>FOUNDATIONS</b>															
A10	Inspect exterior foundation for cracks, leaks, plant intrusions	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect interior foundation for cracks or leaks	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
A20	<b>BASEMENT CONSTRUCTION</b>															
A20	Inspect for leaks, concrete damage spauling etc.	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>A. SUBSTRUCTURE SUB-TOTALS</b>									\$150	\$150	\$150	\$150	\$150	\$150	\$150	\$1,050
<b>B. SHELL</b>																
B10	<b>SUPERSTRUCTURE</b>															
B1032	Inspect floors for leaks, beam displacement or deflection, etc.	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect roof for leaks, weathertight integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B20	<b>EXTERIOR ENCLOSURE</b>															
B2011	Inspect doors for breakage, seals and caulking, etc	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows for breakage, seals and caulking, etc	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B2011	Inspect doors for breakage, seals and caulking, etc	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows for breakage, seals and caulking, etc	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B2011	Inspect doors for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B2011	Inspect doors for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B2023	Inspect doors for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
	Inspect windows for breakage, seals and caulking, etc	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B2032	Annual Maint: Door, Emergency, Egress, Swinging - B2035 225 1950	Fair	1	0	1.00	Lump Sum	\$56.00	Routine Maint Minor Repairs	\$56	\$56	\$56	\$56	\$56	\$56	\$56	\$392
	Inspect doors for breakage, seals and caulking, etc	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect façade for water intrusion, cracks, deflection, etc.	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows and doors for proper operation and safety	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect windows for breakage, seals and caulking, etc	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>B30</b>	<b>ROOFING</b>															
B3011	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3011	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3011	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3011	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3014	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3021	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
B3021	Inspect roof hatches for operation, safety, leaks, and weathertight integrity	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>B. SHELL SUB-TOTALS</b>									\$1,706	\$1,706	\$1,706	\$1,706	\$1,706	\$1,706	\$1,706	\$11,942
<b>C. INTERIORS</b>																
<b>C10</b>	<b>INTERIOR CONSTRUCTION</b>															
C10	Inspect doors for operation, damage, seals and alignment, etc	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect wall expansion joints for drywall cracks and settlement	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>C20</b>	<b>STAIRS</b>															
C2011	Inspect for safety of handrails including ballastrades	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect for safety tread nosguards and anti slip measures	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect for tile lift on stair treads	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
C2014	Inspect for safety of handrails including ballastrades	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect for safety tread nosguards and anti slip measures	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect for tile lift on stair treads	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Install railing at stair	Poor	45	0	44.00	LF	\$49.93	Plant Adaptation	\$2,197							\$2,197
<b>C30</b>	<b>INTERIOR FINISHES</b>															
C3024	Inspect for tile lift on flooring	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect walls, ceilings, and floors for malicious damage	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect walls, ceilings, and floors for worn and faded paint and wallcovering	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect for tile lift on flooring	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
C3025	Inspect walls, ceilings, and floors for malicious damage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect walls, ceilings, and floors for worn and faded paint and wallcovering	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
C3032	Inspect for tile lift on flooring	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect walls, ceilings, and floors for malicious damage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect walls, ceilings, and floors for worn and faded paint and wallcovering	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>C. INTERIORS SUB-TOTALS</b>									\$3,047	\$850	\$850	\$850	\$850	\$850	\$850	\$8,147
<b>D. SERVICES</b>																
D10	<b>CONVEYING SYSTEMS</b>															
D1011	Annual Maint: Elevator, Electric, Pass/Frieght - D1015 100 1950	Poor - Fair	1	0	1.00	Lump Sum	\$6,425.00	Routine Maint Minor Repairs	\$6,425	\$6,425	\$6,425	\$6,425	\$6,425	\$6,425	\$6,425	\$44,975
	Ensure Government Entity certifies and provides paperwork	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all emergency operation sequecnes of events for elevator/escalators	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all normal operation sequecnes of events for elevator/escalators	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D1013	Consider Installation of stair lift to provide access	Poor	15	0	1.00	EACH	\$18,600	Plant Adaptation	\$18,600							\$18,600
	Ensure Government Entity certifies and provides paperwork	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all emergency operation sequecnes of events for elevator/escalators	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all normal operation sequecnes of events for elevator/escalators	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D1013	Ensure Government Entity certifies and provides paperwork	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all emergency operation sequecnes of events for elevator/escalators	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect all normal operation sequecnes of events for elevator/escalators	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D20	<b>PLUMBING</b>															
D2011	Annual Maint: Toilet, Vacuum Breaker Type - D2015 100 2950	Fair - Good	1	0	6.00	Per Fixture	\$16.55	Routine Maint Minor Repairs	\$99	\$99	\$99	\$99	\$99	\$99	\$99	\$695
	Inspect all fixtures for leaks and corosion	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2011	Annual Maint: Toilet, Vacuum Breaker Type - D2015 100 2950	Fair - Good	1	0	50.00	Per Fixture	\$16.55	Routine Maint Minor Repairs	\$828	\$828	\$828	\$828	\$828	\$828	\$828	\$5,793
	Inspect all fixtures for leaks and corosion	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Annual Maint: Urinal - D2015 100 1950	Fair - Good	1	0	14.00	Per Fixture	\$16.55	Routine Maint Minor Repairs	\$232	\$232	\$232	\$232	\$232	\$232	\$232	\$1,622
	Inspect all fixtures for leaks and corosion	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
D2012	Inspect chemical test strips for pipe deterioration	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2013	Inspect all fixtures for leaks and corosion	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2016	Inspect all fixtures for leaks and corosion	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2021	Inspect all fixtures for leaks and corosion	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2022	Inspect all fixtures for leaks and corosion	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2022	Inspect all fixtures for leaks and corosion	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D2042	Inspect all fixtures for leaks and corosion	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect chemical test strips for pipe deterioration	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect water chemistry for safety	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Pressure test systems for integrity	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D30	HVAC															
D3021	Annual Maint: Boiler, Gas/OilElectric, to 1000 mbh - D3025 140 4950	Fair	1	0	1.00	Lump Sum	\$1,900.00	Routine Maint Minor Repairs	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$13,300
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3021	Annual Maint: Boiler, Gas/OilElectric, to 1000 mbh - D3025 140 4950	Fair	1	0	1.00	Lump Sum	\$1,900.00	Routine Maint Minor Repairs	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$1,900	\$13,300
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3022	Annual Maint: Pump, Condensate Return - D3025 310 2950	Fair	1	0	1.00	Lump Sum	\$141.00	Routine Maint Minor Repairs	\$141	\$141	\$141	\$141	\$141	\$141	\$141	\$987
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3031	Annual Maint: Chiller, reciprocating, water cooled, over 50 ton - D3035 130 2950	Good	1	0	1.00	Lump Sum	\$1,025.00	Routine Maint Minor Repairs	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$7,175
	Inspect all compressors, pumps, and motors for operation and integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3031	Annual Maint: Chiller, reciprocating, water cooled, over 50 ton - D3035 130 2950	Fair - Good	1	0	1.00	Lump Sum	\$1,025.00	Routine Maint Minor Repairs	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$1,025	\$7,175
	Inspect all compressors, pumps, and motors for operation and integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3041	Annual Maint: Air Hadler Unit, 3 to 24 ton - D3045 110 1950	Fair	1	0	1.00	Lump Sum	\$254.00	Routine Maint Minor Repairs	\$254	\$254	\$254	\$254	\$254	\$254	\$254	\$1,778
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3041	Annual Maint: Air Hadler Unit, 3 to 24 ton - D3045 110 1950	Good	1	0	1.00	Lump Sum	\$254.00	Routine Maint Minor Repairs	\$254	\$254	\$254	\$254	\$254	\$254	\$254	\$1,778
	Inspect all compressors, pumps, and motors for operation and integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
	Measure performance of system against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3042	Annual Maint: Fan, Centrifugal, up to 5000 cfm - D3045 220 1950	Good	1	0	1.00	Lump Sum	\$77.50	Routine Maint Minor Repairs	\$78	\$78	\$78	\$78	\$78	\$78	\$78	\$543
	Inspect all compressors, pumps, and motors for operation and integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3042	Annual Maint: Fan, Centrifugal, up to 5000 cfm - D3045 220 1950	Fair	1	0	1.00	Lump Sum	\$77.50	Routine Maint Minor Repairs	\$78	\$78	\$78	\$78	\$78	\$78	\$78	\$543
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3052	Annual Maint: Package Unit, Water Cooled 3 ton to 24 ton - D3055 220 1950	Good	1	0	1.00	Lump Sum	\$254.00	Routine Maint Minor Repairs	\$254	\$254	\$254	\$254	\$254	\$254	\$254	\$1,778
	Inspect all compressors, pumps, and motors for operation and integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3052	Annual Maint: Package Unit, Water Cooled 3 ton to 24 ton - D3055 220 1950	Fair	1	0	1.00	Lump Sum	\$254.00	Routine Maint Minor Repairs	\$254	\$254	\$254	\$254	\$254	\$254	\$254	\$1,778
	Inspect all compressors, pumps, and motors for operation and integrity	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D3053	Annual Maint: Air Conditioning Split System DX Air Cooled, up to 10 ton - D3055 250 1950	Good	1	0	1.00	Lump Sum	\$1,719.00	Routine Maint Minor Repairs	\$1,719	\$1,719	\$1,719	\$1,719	\$1,719	\$1,719	\$1,719	\$12,033
	Inspect all compressors, pumps, and motors for operation and integrity	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect condensate drains for proper operation and no clogging	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect filters for unusual build-up before cycle change	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure performance of system against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>D40</b>	<b>FIRE PROTECTION SYSTEMS</b>															
D4010	Ensure Government Entity certifies and provides paperwork	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any alarm panel against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any operable test flow valves against alarm panel	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
	Inspect time sensitive equipment for compliance	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>D50</b>	<b>ELECTRICAL SYSTEMS</b>															
D5011	Annual Maint: Switchboard, Eletrical - D5015 217 1950	Fair	1	0	1.00	Lump Sum	\$985.00	Routine Maint Minor Repairs	\$985	\$985	\$985	\$985	\$985	\$985	\$985	\$6,895
	Infrared Inspection of circuit breaker panels	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D5012	Infrared Inspection of circuit breaker panels	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D5022	Annual Maint: Switchboard, Eletrical - D5015 210 1950	Good	1	0	1.00	Lump Sum	\$58.50	Routine Maint Minor Repairs	\$59	\$59	\$59	\$59	\$59	\$59	\$59	\$410
	Infrared Inspection of circuit breaker panels	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D5022	Annual Maint: Switchboard, Eletrical - D5015 210 1950	Poor - Fair	1	0	1.00	Lump Sum	\$58.50	Routine Maint Minor Repairs	\$59	\$59	\$59	\$59	\$59	\$59	\$59	\$410
	Infrared Inspection of circuit breaker panels	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D5022	Annual Maint: Switchboard, Eletrical - D5015 210 1950	Poor - Fair	1	0	1.00	Lump Sum	\$58.50	Routine Maint Minor Repairs	\$59	\$59	\$59	\$59	\$59	\$59	\$59	\$410
	Infrared Inspection of circuit breaker panels	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
D5037	Annual Maint: Fire Alarm Annunciator Panel - D5035 710 1950	Poor - Fair	1	0	1.00	Lump Sum	\$970.00	Routine Maint Minor Repairs	\$970	\$970	\$970	\$970	\$970	\$970	\$970	\$6,790
	Infrared Inspection of circuit breaker panels	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect and test any security panel against factory published standards	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect functionality of emergency generating system	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect overall lighting adequacy	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
<b>D. SERVICES SUB-TOTALS</b>									\$43,245	\$24,645	\$24,645	\$24,645	\$24,645	\$24,645	\$24,645	\$191,115
<b>E. EQUIPMENT &amp; FURNISHING</b>																
E10	<b>EQUIPMENT</b>															
E1093	Annual Maint: Misc Food Service Equipment - E1095 334 1950	Fair - Good	1	0	1.00	Lump Sum	\$2,740.00	Routine Maint Minor Repairs	\$2,740	\$2,740	\$2,740	\$2,740	\$2,740	\$2,740	\$2,740	\$19,180
	Ensure Government Entity certifies and provides paperwork	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect restaurant equipment for damage and integrity	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure restaurant Ansul [Fire Hood] against factory published standards	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Measure restaurant venting equipment against factory published standards	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
E20	<b>FURNISHINGS</b>															
E20	Inspect for malicious damage	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>E. EQUIPMENT &amp; FURNISHING SUB-TOTALS</b>									\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$2,990	\$20,930
<b>F. SPECIAL CONSTRUCTION AND DEMOLITION</b>																
<b>F. SPECIAL CONSTRUCTION AND DEMOLITION SUB-TOTALS</b>									\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>G. BUILDING SITEWORK</b>																
G20	<b>SITE IMPROVEMENTS</b>															
G2022	Inspect landscaping and hardscaping for damage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2025	Inspect landscaping and hardscaping for damage	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Poor	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2031	Inspect landscaping and hardscaping for damage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2031	Inspect landscaping and hardscaping for damage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2031	Inspect landscaping and hardscaping for damage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2033	Inspect landscaping and hardscaping for damage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2034	Inspect landscaping and hardscaping for damage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2043	Inspect landscaping and hardscaping for damage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2045	Inspect landscaping and hardscaping for damage	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Annual Maint: Swimming Pool - F1045 110 1950	Good	1	0	1.00	Lump Sum	\$3,725	Routine Maint Minor Repairs	\$3,725	\$3,725	\$3,725	\$3,725	\$3,725	\$3,725	\$3,725	\$26,075

**Routine Maintenance Expenditures for Marshall Elementary School**

Element No.	Actions	Last Assigned	EUL* or	RUL** (Yrs)	Qty.	Units	Unit Cost	Plan Type	2013	2014	2015	2016	2017	2018	2019	Total***
G2046	Inspect landscaping and hardscaping for damage	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
G2047	Inspect landscaping and hardscaping for damage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
	Inspect landscaping and hardscaping for proper drainage	Fair - Good	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>G30 SITE CIVIL/MECHANICAL UTILITIES</b>																
G30	Inspect for signs of surface water, sink holes at utility path and sewage or natural gas odors, consider visual camera survey of sewer and drain lines, perform regular sewer waste drain cleaning and inspection	Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>G40 SITE ELECTRICAL UTILITIES</b>																
G4021	Inspect for visually for frayed or damaged wiring, sinkholes at transformers and underground wiring and perform infrared testing of distribution panels and switchgear	Poor - Fair	1	0	1.00	Labor Hrs	\$50.00	Predictive Maint Test Inspec	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$350
<b>G. BUILDING SITEWORK SUB-TOTALS</b>									\$4,925	\$4,925	\$4,925	\$4,925	\$4,925	\$4,925	\$4,925	\$34,475
<b>Z. GENERAL</b>																
<b>Z10 GENERAL REQUIREMENTS</b>																
Z1010.1	Consider ACCESS CONTROL Upgrades. Refer to report for details	Fair	20	0	1.00	LS	\$282,063	Plant Adaptation	\$282,063							\$282,063
Z1010.2	Consider ADA Accessibility Upgrades. Refer to report for details	Fair	20	0	1.00	LS	\$20,295	Plant Adaptation	\$20,295							\$20,295
Z1010.3	Consider FIRE PROTECTION Upgrades. Refer to report for details	Fair - Good	20	0	1.00	LS	\$59,978	Plant Adaptation	\$59,978							\$59,978
Z1010.4	Consider Green Roof Structural Evaluation by Engineer. Refer to report for details	Fair - Good	50	0	1.00	LS	\$7,500	Plant Adaptation	\$7,500							\$7,500
Z1010.4	Consider Installing Green Roof on all flat roof sections. Refer to report for details	Fair - Good	50	0	43,560	SF	\$12.23	Plant Adaptation	\$532,652							\$532,652
Z1010.5	Consider HAZ MAT Improvements. Refer to report for details	Fair	20	0	1.00	LS	\$24,500	Plant Adaptation	\$24,500							\$24,500
Z1010.6	Consider Facility Improvements to achieve LEED Silver Certification. Refer to report for details	Fair	20	0	1.00	LS	\$498,396	Plant Adaptation	\$498,396							\$498,396
Z1010.7	Consider SAFETY and SECURITY Upgrades. Refer to report for details	Fair	20	0	1.00	LS	\$270,506	Plant Adaptation	\$270,506							\$270,506
<b>Z. GENERAL SUB-TOTALS</b>									\$1,695,890	\$0	\$0	\$0	\$0	\$0	\$0	\$1,695,890
Expenditure Totals per Year									\$1,751,953	\$35,266	\$35,266	\$35,266	\$35,266	\$35,266	\$35,266	\$1,963,549
CRV*** \$49,988,313																

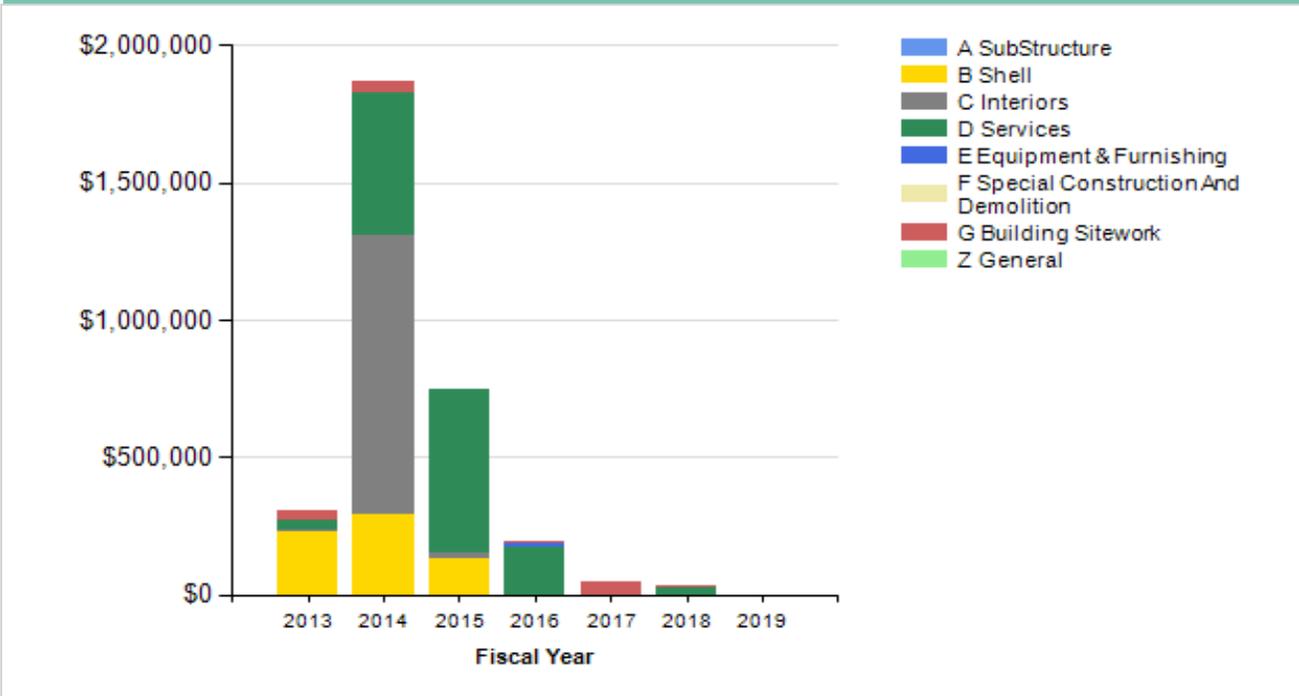
**Notes**

- \* - EUL is the Estimated Useful Life of an Asset
- \*\* - RUL is the Remaining Useful Life of an Asset
- \*\*\* - Non-Escalated and Non-Inflated Adjusted Dollars

# DCPS PCA Property Rollup



## Capital Expenditure Costing By Level 1 Uniformat by Year for Marshall Elementary School



# DCPS PCA Property Rollup



## Access Control Questionnaire for Marshall Elementary School

Access Control	Yes/ No	Comments
1 Does the facility have a key card proximity entry system?	No	
2 Are all windows at grade level locked or fixed at all times (to prevent passing of contraband into the facility)?	No	POC said casement windows present on ground level throughout site
3 There is one clearly marked and designated entrance for visitors?	Yes	
4 Signs are posted for visitors to report to main office or through a designated entrance?	Yes	
6 Access to bus loading area is restricted to other vehicles during loading/unloading?	N/A	Elementary, so kids walk or are drop off by parents
7 Lighting is provided at entrances and points of possible intrusion?	Yes	
8 Outside hardware has been removed from all doors except at points of entry?	No	Hardware removed from Gym doors and select other spaces. Other doors are locked.
9 Basement windows are protected with grill or well cover?	Yes	
10 "Restricted" areas are properly identified?	Yes	
11 Access to electrical panels is restricted?	Yes	Some panels are in hallways, but locked with key
12 Are there control gates to separate gym, cafeteria, stage, lobby and restrooms from rest of school and classrooms during after hours without changing means of egress?	Yes	Locking security doors
13 Are all perimeter doors equipped with recessed magnetic contact – door position door sensors?	No	None
14 Are interior doors with specific vulnerability equipped with door position monitoring sensors?	No	None

# DCPS PCA Property Rollup



## ADA Questionnaire for Marshall Elementary School

### Parking

Accessibility Item	Qty.	Unit Cost	Unit	Est. Cost
Adequate number of designated parking stalls and signage for cars are not provided?	0	\$165.00	EACH	\$0
Adequate number of designated parking stalls and signage for vans are not provided?	0	\$220.00	EACH	\$0
Signage indicating accessible parking spaces for cars and vans are not provided? <b>1 IN EVERY 8 ACCESSIBLE SPACES SHOULD BE DESIGNATED FOR A VAN WITH A MINIMUM OF ONE PROVIDED.</b>	1	\$120.00	EACH	\$120
Access aisles adjacent to parking spaces, crossing hazardous vehicle areas, from main roadways or public transportation stops to the building sidewalks and entrances are not provided?	0	\$6.50	LF	\$0
Curb ramps are required from the parking area to the sidewalks providing access to the building?	1	\$950.00	EACH	\$950
Passenger drop off areas are not provided at the building entrances or access routes? <b>Drop off area is for shuttle service, etc. Individual cars and vans use the HC space. Limit use to enclosed malls and properties with known needs.</b>	0		EACH	
Signage directing to accessible parking or accessible building entrances to the facility are not provided? <b>Use when main entrance is not accessible and directions are required to alternate entrance.</b>	1	\$120.00	EACH	\$120
Comments:				
<b>Parking Estimated Cost:</b>				<b>\$1,190</b>

### Ramps

Accessibility Item	Qty.	Unit Cost	Unit	Est. Cost
The building requires the construction of a straight entrance ramp with handrails to allow wheelchair access? <b>limit assessment to cases where the barrier is three steps or less (30" rise) and provide cost. Otherwise note only in checklist "consult a design professional".</b>		\$325.00	LF	\$0
Existing exterior ramps and stairs are not equipped with the required handrails?	0	\$40.00	LF	\$0
Comments: Existing ramp present, but should be replaced with curb cut				
<b>Ramps Estimated Cost:</b>				<b>\$0</b>

### Entrances/Exits

Accessibility Item	Qty.	Unit Cost	Unit	Est. Cost
Install buzzer or intercom for assistance and service at exterior entrance doors or parking space?	0	\$500.00	EACH	\$0
Existing entrance doors are not wide enough to accommodate wheelchair access and clear floor space beside the door swing is lacking?		\$1,250.00	EACH	\$0

## ADA Questionnaire for Marshall Elementary School

Vestibule doors are set too close to the front doors for wheelchair access?	0	\$2,250.00	EACH	\$0
Lever action hardware is not provided at all accessible locations?	1	\$65.00	EACH	\$65
Comments: Seperate ADA accessible entrence. Knob hardware throughout property, ~10 door have lever hardware.				
<b>Entrances/Exits Estimated Cost:</b>				<b>\$65</b>

## Paths of Travel

Accessibility Item	Qty.	Unit Cost	Unit	Est. Cost
Obstacle or protrusion from wall impeding access? Describe condition, location, and repair scope to correct. Does not appear to be an issue at this site.	0			
Existing carpeting is not securely attached or has a pile thickness exceeding 1/2"?	0		SY	
Stair handrails do not extend beyond the top and bottom risers?	10	\$350.00	EACH	\$3,500
Compliant signage indicating accessible entrances and general information is not provided?	0	\$60.00	EACH	\$0
Stair handrails do not extend beyond the top and bottom risers?	10	\$125.00	EACH	\$1,250
Modify location of telephones installed higher than what is essential for basic operation?	0	\$400.00	EACH	\$0
Lower objects mounted higher than 27" off the floor, project more than 4" into walks, halls, corridors, passageways, or aisles? <span style="background-color: yellow; color: blue; font-weight: bold;">Watercoolers and telephones may be an issue if they are wall mounted above 27". ADAAG intent is to enable the cane of a blind person to detect the object before bumping into it.</span>	0		EACH	
Add visual alarm to existing audible fire alarm? <span style="color: blue; font-weight: bold;">Only if audible alarm is present, required by building codes in affect when constructed.</span>	1	\$250.00	EACH	\$250
Install cup dispenser at an existing non-conforming water fountain?	0	\$25.00	EACH	\$0
Comments:				
<b>Paths of Travel Estimated Cost:</b>				<b>\$5,000</b>

## Elevators

Accessibility Item	Qty.	Unit Cost	Unit	Est. Cost
Elevator control panel and hall buttons are mounted higher than 54" above the floor?	1	\$6,000.00	EACH	\$6,000
Raised elevator markings at control panel and hall buttons are not provided in Braille and Standard Alphabet?	1	\$350.00	EACH	\$350
Audible signals are not provided at floor level changes or elevator lobbies indicating car arrival?	1	\$400.00	EACH	\$400
Add visual alarm to existing audible fire alarm?	1	\$250.00	EACH	\$250
Safety stops not installed in elevator doors?	0	\$6,000.00	EACH	\$0
Elevator communication equipment not set up for speech impaired communication?	1	\$2,600.00		\$2,600
Comments: Elevator has IR-eye safety stops. Narrow cabin, would have to be enclarged in full retrofit.				

**ADA Questionnaire for Marshall Elementary School****Elevators Estimated Cost: \$9,600****Restrooms**

<b>Accessibility Item</b>	<b>Qty.</b>	<b>Unit Cost</b>	<b>Unit</b>	<b>Est. Cost</b>
Existing restroom doors are not wide enough to accommodate wheelchair access, and clear floor space beside the door swing is lacking?	0	\$1,250.00	EACH	\$0
Lever action hardware is not provided at all accessible locations?	6	\$65.00	EACH	\$390
Install grab bars in accessible stalls at 36" above the floor?	6	\$325.00	EACH	\$1,950
Modify existing toilet room accessories and mirrors?	0	\$200.00	EACH	\$0
Modify existing lavatory faucets to paddle type faucets?	6	\$300.00	EACH	\$1,800
Wrap drain pipes below lavatory with insulation; protect against contact with hot, sharp, or abrasive surfaces?	6	\$50.00	EACH	\$300
Add pull station alarm in unisex bathroom?		\$500.00	EACH	\$0
Comments: Two restrooms (one boys, one girls) have ADA modifications, but non-compliant grab bars, faucets. Other four restrooms do not have wide enough stalls to currently accommodate ADA stall.				
<b>Restrooms Estimated Cost:</b>				<b>\$4,440</b>

**Total Estimated Cost: \$20,295**

# DCPS PCA Property Rollup



## Fire Protection Questionnaire for Marshall Elementary School

Sprinkler and Suppression		Yes/ No	Comments
1	Does the facility have a fire sprinkler system?	Yes	100% sprinklered
2	Does the facility have wall mounted fire extinguishers?	Yes	Throughout property
3	Does the kitchen and cooking area have hood vent mounted fire suppression systems?	N/A	No full cooking at site
4	Does combustion equipment have dedicated fire sprinkler system e.g. boilers, hot water heater?	Yes	

Inspection		Yes/ No	Comments
1	Are current fire protection system inspections up to date and onsite?	Yes	
2	A record of Fire Inspection by the local or state Fire Officer is maintained?	No	Reports sent to site. Onsite staff could not locate reports. Non-action reports discarded.
3	Exit signs are clearly visible and pointing in the correct direction?	Yes	

Alarm and Annunciators		Yes/ No	Comments
1	Does the facility have monitored fire alarm system?	No	
2	Is the fire alarm control panel solid-state, modular design type, incorporating the following standard features: lamp test, red alarm and amber LEDs per zone, positive and negative ground fault indicators, power ON indicator, two (2) auxiliary form C alarm contacts with disconnect switches and lights, one (1) auxiliary form C trouble contact, regulated 24Vdc four-wire smoke detector power supply, and remote reset connection?	No	Old relay system, no indicator lights
3	Is the power supply to the fire alarm control panel from an individual circuit?	Yes	
4	Does the activation of any initiating device including but not limited to manual pull stations, smoke detectors, heat detectors and flow switches shall cause all signals to sound continuously until manually reset; flash all visual alarm indicator lights; illuminate respective zone indicator lamps in the control panel; illuminate respective zone indicator lamps in the graphic display on the door of the control panel; and illuminate respective zone indicator lamps in the remote annunciator?	Yes	But no indicator lights
5	Are the audible and visual devices such as combination horn/strobe indicating type wired to separate zones so that audible devices correctly provide code three temporal output and visual devices correctly provide ADA compliant strobe effect?	No	Moreover, no visual/strobe alarms at all.

## Fire Protection Questionnaire for Marshall Elementary School

<b>6</b>	Is the fire alarm wiring enclosed in 3/4" metal conduit raceway to the manufacturer's instructions?	Yes	Enclosed. to manufacture specs, I don't know?
<b>7</b>	Is there a smoke detector directly above the fire alarm control panel?	Yes	Not sure. Meant to check, but looking at picture, did not get ceiling.
<b>8</b>	Are there smoke detectors within 5'-0" on each side of the fire doors? Are detectors tied into magnetic door holders to release fire doors upon alarm?	No	No magnetic release for fire doors.
<b>9</b>	Are there duct-type smoke detectors on the supply side of HVAC units rated greater than 2000 cfm but less than 15,000 cfm?	No	
<b>10</b>	Are there duct-type smoke detectors on both the supply side and return side of the HVAC units rated 15,000 cfm or more?	No	
<b>11</b>	Are there duct-type smoke detectors at all smoke damper locations within the HVAC system ductwork? Is there additional wiring to close the damper and turn off the associated HVAC unit?	No	

# DCPS PCA Property Rollup



## Green Roof Questionnaire for Marshall Elementary School

### Green Roof-2 Feasibility Questions

Label	Qty.	Unit Cost	Total Cost
Consider Green Roof Structural Evaluation by Engineer	1 LS	\$7,500.00	\$7,500.00
Location			
Is the roof a sloped system?			
Is the roof less than 5 years in age?			
Does the roof have significant amounts of penetration and equipment?			
Will structural modification need to be made to support a green roof?			
Comments			

### Green Roof-1 Feasibility Questions

Label	Qty.	Unit Cost	Total Cost
Consider: Green Roof	43560 SF	\$12.23	\$532,651.68
Location	Main roof and Mezzanine Roof		
Is the roof a sloped system?	No		
Is the roof less than 5 years in age?	No		
Does the roof have significant amounts of penetration and equipment?	No		
Will structural modification need to be made to support a green roof?	Yes		
Comments	Excludes aluminized membrane roof over		

# DCPS PCA Property Rollup



## Haz Mat Questionnaire for Marshall Elementary School

<b>Asbestos Containing Building Materials</b>		<b>Yes/ No</b>	<b>Comments</b>
1	Does the facility have a current AHERA Asbestos Inspection on File?	Yes	
2	Does the facility currently have a Asbestos Containing material O&M plan in place?	Yes	
3	Has all the material identified in the AHERA report been abated?	No	

<b>Lead in Paint / Water</b>		<b>Yes/ No</b>	<b>Comments</b>
1	Has the facility been tested for Lead Paint?	No	No documentation provided onsite.
2	Does the facility have a Lead containing paint O&M plan in place?	No	
3	Has all the lead identified in the LBP report been abated?	N/A	No LBP report provided
4	Has the facility been tested for Lead in Water?	No	No documentation provided onsite.
5	Does the facility have a Lead in water O&M plan in place?	No	

<b>Fuel Storage Tanks</b>		<b>Yes/ No</b>	<b>Comments</b>
1	Does the facility have a UST?	Yes	Abandoned within the last five years.
2	Does the tank have a leak detection system?	No	
3	Does the facility have a AST?	No	
4	Does the AST have a leak containment system?	N/A	Not present

<b>PCBs</b>		<b>Yes/ No</b>	<b>Comments</b>
1	Are transformers PCBs free?	No	No stickers on transformer or elevator
2	Is there any known PCB containing equipment onsite?	No	POC felt all equipment MUST be PCB free because property is a school, but could not

# DCPS PCA Property Rollup



## LEED Scoresheet for Marshall Elementary School Sustainable Sites

**Possible Points: 26**  
**Existing**

Credit 1	Is the school LEED Certified Design and Construction? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 2	Does the facility have a Building Exterior and Hardscape Management Plan? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 3	Does the facility have an Integrated Pest Management, Erosion Control, and Landscape Management Plan? <b>Level of Effort to Achieve: Easy</b>	No	0
Credit 4	Does the facility provide car pooling or Alternative Commuting Transportation options or incentives? <b>Level of Effort to Achieve: Not Feasible</b>	No	0
Credit 5	Does the way the site is developed Protect or Restore Open Habitat? <b>Level of Effort to Achieve: Not Feasible</b>	No	0
Credit 6	Does the facility have retention ponds rain gardens to control the quantity of Storm water? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 7.1	Does the facility have non asphalt / macadam based paving such as light colored pavers or concrete? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 7.2	Does the facility have a cool roof (white or light color roof surface) ?	Yes	1
Credit 8	Are measures installed preventing operable exterior lighting from encroaching on adjacent properties?	Yes	1
<b>Total:</b>		<b>2</b>	

## Water Efficiency

**Possible Points: 14**  
**Existing**

<b>Prereq 1</b>	<b>The facility has a Minimum Indoor Plumbing Fixture and Fitting</b> <b>Level of Effort to Achieve: Easy</b>	<b>No</b>	
Credit 1	Does the facility have a water meter for the whole building?	Yes	1
Credit 1	Does the facility have sub meters for boiler water, cooling tower water, irrigation water, fire sprinkler? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 2	Are all of the plumbing fixtures at the facility non-water saving devices?		0
	Are some of the plumbing fixture at the facility are non-water saving devices (10-25%)?	Yes	3
	Are all of the plumbing fixture at the facility water saving devices (100%)? <b>Level of Effort to Achieve:</b>	No	0
Credit 3	Does the school use native planting that does not require irrigation?	Yes	2
	Does the school have an irrigation system with a rain gauge and time system?	N/A	0
	Does the school hand water on an as needed basis?	Yes	1
Credit 4	Does the Cooling Tower utilize a Chemical Management System?	Yes	0
	Does the Cooling Tower utilize a Non-Potable Water Source (not public drinking water system)? <b>Level of Effort to Achieve: Hard</b>	No	0

# LEED Scoresheet for Marshall Elementary School

Total: 7

## Energy and Atmosphere Possible Points: 35 Existing

<b>Prereq 1</b>	<b>Does the school have an Energy Efficiency Best Management Practices Level of Effort to Achieve: Easy</b>	<b>No</b>	
<b>Prereq 2</b>	<b>Has an energy audit been performed and were ECMs implemented to Level of Effort to Achieve: Easy</b>	<b>No</b>	
<b>Prereq 3</b>	<b>Does the school have a Fundamental Refrigerant Management program? Level of Effort to Achieve: Easy</b>	<b>No</b>	
Credit 1	Is it feasible for the facility to achieve an EnergyStar rating of 71 or higher? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 2.1	Have building lighting and HVAC systems been Investigated and Analyzed for retro Commissioning? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 2.2	Has the school performed retro Commissioning of the building lighting and HVAC systems? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 2.3	Is the school performing ongoing Commissioning of the building lighting and HVAC systems? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 3.1	Does the school have a HVAC or Lighting —Building Automation System? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 3.2	Are the HVAC and lighting systems individually metered at 40%? <b>Level of Effort to Achieve: Hard</b>	No	0
	Are the HVAC and lighting systems individually metered at 80% ? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 4	Does the school use on-site or off-site renewable energy? <b>Level of Effort to Achieve: Easy</b>	No	0
Credit 5	Does the school have an Enhanced Refrigerant Management? <b>Level of Effort to Achieve: Hard</b>	No	0
Credit 6	Does the school have an Emissions Reduction Reporting program? <b>Level of Effort to Achieve: Hard</b>	No	0
<b>Total:</b>			<b>0</b>

## Materials and Resources Possible Points: 10 Existing

<b>Prereq 1</b>	<b>Does the school have a Sustainable Purchasing Policy? Level of Effort to Achieve: Easy</b>	<b>No</b>	
<b>Prereq 2</b>	<b>Does the school have a Solid Waste Management Policy? Level of Effort to Achieve: Easy</b>	<b>No</b>	
Credit 1	Does the school have a Sustainable Purchasing program for Ongoing Consumables? <b>Level of Effort to Achieve: Easy</b>	No	0
Credit 2.1	Is a Sustainable Purchasing policy used for purchasing at least 40% of Electric-Powered Equipment? <b>Level of Effort to Achieve: Easy</b>	No	0
Credit 2.2	Is a Sustainable Purchasing policy used for purchasing at least 40% of Furniture? <b>Level of Effort to Achieve: Easy</b>	No	0

## LEED Scoresheet for Marshall Elementary School

Credit 3	Is a Sustainable Purchasing policy used when making Facility Alterations and Additions? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 4	Is a Sustainable Purchasing policy used to reduce Mercury content in Lamps purchased? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 5	Is a Sustainable Purchasing policy used when making Food purchases at the school? <b>Level of Effort to Achieve:</b> Hard	No	0
Credit 6	Has the school performed a Waste Stream Audit? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 7	Has the school implemented a policy to reduce the quantity Ongoing Consumables going into landfills? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 8	Has the school implemented a policy to reduce the quantity durable goods (furniture, equipment) going into landfills? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 9	Does the school recycle building materials during construction which prevents material going to landfill? <b>Level of Effort to Achieve:</b> Easy	No	0
<b>Total:</b>			<b>0</b>

## Indoor Environmental Quality Possible Points: 15

		<b>Existing</b>	
<b>Prereq 1</b>	<b>Has the school performed a Minimum Indoor Air Quality (IAQ)</b> <b>Level of Effort to Achieve:</b> Easy	<b>No</b>	
<b>Prereq 2</b>	<b>Is the facility and surrounding area smoke free - Environmental Tobacco</b>	<b>Yes</b>	
<b>Prereq 3</b>	<b>Does the school have a Green Cleaning Policy?</b> <b>Level of Effort to Achieve:</b> Easy	<b>No</b>	
Credit 1.1	Does the school have an Indoor Air Quality Management Program? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 1.2	Does the school have Outdoor Air Delivery Monitoring? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 1.3	Has the school modified the HVAC systems to allow Increased Ventilation? <b>Level of Effort to Achieve:</b> Hard	No	0
Credit 1.4	Does the school have a plan to Reduce Particulates in Air Distribution? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 1.5	Does the school have a policy to enhance IAQ performance during Facility Alterations and Additions? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 2.1	Has the school performed an Occupant Survey for IAQ? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 2.2	Does the school allow for the Controllability of Systems—Lighting by occupants?	Yes	1
Credit 2.3	Does the school allow for the Occupant Comfort—Thermal Comfort Monitoring? <b>Level of Effort to Achieve:</b> Hard	No	0
Credit 2.4	Does the school take advantage of Daylight and Views for tenant comfort?	No	0

## LEED Scoresheet for Marshall Elementary School

	<b>Level of Effort to Achieve:</b> Hard		
Credit 3.1	Does the school have a High Performance Cleaning Program? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3.2	Does the school have a Custodial Effectiveness Assessment? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3.3	Does the school Purchase Sustainable Cleaning Products and Materials ? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3.4	Does the school use Sustainable Cleaning Equipment? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3.5	Does the school have Indoor Chemical and Pollutant Source Control? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3.6	Does the school have an Indoor Integrated Pest Management? <b>Level of Effort to Achieve:</b> Easy	No	0
<b>Total:</b>			<b>1</b>

## Innovation in Operations

**Possible Points: 6**  
**Existing**

Credit 1.1	Does the school have an Innovation in Operations program? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 2	Does the school have a LEED Accredited Professional on staff? <b>Level of Effort to Achieve:</b> Easy	No	0
Credit 3	Is the school Documenting Sustainable Building Cost Impacts? <b>Level of Effort to Achieve:</b> Hard	No	0
<b>Total:</b>			<b>0</b>

Certified 40 to 49 points ● Silver 50 to 59 points ● Gold 60 to 79 points ● Platinum 80 to 110 points

**Total: 10**  
**30 Points to LEED Certification**

# DCPS PCA Property Rollup



## Safety-Security Questionnaire for Marshall Elementary School

Communication		Yes/ No	Comments
1	Do all areas of the school, including bathrooms, hallways, and offices, have the ability to receive an announcement via the P.A. System?	No	Gym, Pool, Mezzanine, Restrooms? do NOT receive P.A. announcements
2	Do all areas of the school have the ability to privately call the main office or for emergency?	No	Following do: Classrooms, Gym, some offices
3	Does the general office, principal's office, assistant principal's office have CCTV receptacles?	No	System present, but does not work
4	Is there an automated notification system to lockdown the building envelope at all exits including service doors and loading docks or all classrooms as necessary?	No	

Monitoring		Yes/ No	Comments
1	Does the facility have a monitored burglar alarm system?	Yes	Motion sensors only. No door or window sensors.
2	Are all classrooms and all other rooms that are grade-accessible will be equipped with motion detectors?	No	Open space layout. Some classrooms created by putting in dividing walls. Some of these classrooms do not.
3	Are all general corridor or lobby areas plus rooms with specific vulnerability (e.g., main office, principal's office, library, computer rooms, etc.) equipped with motion detectors?	Yes	Except for new computer lab created by putting walls in open space. This new space does not have motion sensor.
4	Is the main office and one or more additional location(s) accessed by designated staff equipped with IDS arm/disarm keypads?	No	POC said yes, but I didn't see one on door.
5	Are alarm monitoring and response performed by DCPS via their existing central alarm monitoring facility via either dial-up telephone lines or LAN/WAN?	Yes	Monitored by DC school police.

Surveillance		Yes/ No	Comments
1	Is there a video surveillance system that provides general surveillance of the site, common areas and building entry and exit points?	Yes	
2	Does the facility have monitored video surveillance system at the interior?	Yes	
3	Does the facility have monitored video surveillance system at the exterior?	Yes	

Exterior Entry/Egress		Yes/ No	Comments
1	Does the facility have exterior door hardware that allows controlled access to the building?		
2	Does the facility have exterior card access readers that allow controlled access to the building?		

## Safety-Security Questionnaire for Marshall Elementary School

<b>3</b>	Does the facility have allow occupants a quick, unimpeded egress from the building?		
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	<b>Interior Entry/Egress</b>	<b>Yes/ No</b>	<b>Comments</b>
<b>1</b>	Does the facility have interior door hardware that allows controlled access to classrooms?		
<b>2</b>	Does the facility have interior card access readers that allow controlled access within the building?		

	<b>Interior Entry/Egress</b>	<b>Yes/ No</b>	<b>Comments</b>
<b>1</b>	Does the facility have Magnetometers that monitor for the entry of "unwanted items" into the building?		
<b>2</b>	Does the facility have equipment that allows announcements to be made during large gatherings?		

# DCPS PCA Property Rollup



## Space Utilization for Marshall Elementary School

### Entire School Comments [From Pathways 2012 Data]

2003 Capacity: 350

Bldg SF: 2,076,000

Rationale: One section vacant

Proposed Capacity (2012): 363

SF per Student: 5,719.00

### TBD

Room [From Pathways]	Design ID [From Pathways]	Room Type [From Pathways]	Program Occupancy [From Pathways]	Design Occupancy [From Pathways]	Space (SQF) (Design) [From Pathways]	Space (SQF) (Actual) [From iPlan]	Comments [From Pathways]
121A	121A	Mont. PreK	20	20	1175	1,722	
121B	121B	ElemPreK	20	20	1175	1,722	
127A	127A	ElemPrimary	20	20	900	0	3rd
127B	127B	ElemResource	0	0	350	96	sped
127C	127C	ElemIntermedia te	23	23	900	0	4/5
127D/E	127D/E	ElemPrimary	20	20	900	0	2nd
127E/F	127E/F	Mont Primary	20	20	900	0	
127G/H	127G/H	ElemKind	20	20	1175	0	
127H/I	127H/I	ElemPrimary	20	20	900	0	1st
193A	193A	Vacant	20	20	900	1,040	Was middle school program
193B	193B	Vacant	20	20	900	1,040	
193C	193C	Vacant	20	20	900	1,040	
193D	193D	Vacant	20	20	900	1,040	
193E	193E	Vacant	20	20	900	1,040	
193F	193F	Vacant	20	20	900	1,040	
193G	193G	Vacant	20	20	900	1,040	
193H	193H	Vacant	20	20	900	1,040	
95A	95A	Mont. PreK	20	20	1175	1,271	
95B	95B	Mont. PreK	20	20	1175	1,271	
Mezz	239-265	ElemScience	0	0	1100	7,622	STEM
<b>Floor Totals:</b>			<b>363</b>	<b>363</b>		<b>22,024</b>	

<b>Property Totals:</b>	<b>363</b>	<b>363</b>		<b>22,024</b>
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# DCPS PCA Property Rollup



## Uniformat Level 2 Asset Condition Rating For Marshall Elementary School

Condition	Score	2012 iPlan Scoring			Rating
		From	To		
Good	10	100%	0%	20%	Good
Fair-Good	8	80%	20%	40%	Fair
Fair	6	60%	40%	60%	Poor
Poor-Fair	4	40%	60%	80%	Poor
Poor	2	20%	80%	100%	Unsatisfactory

Plan Type	Condition	Element No.	Asset	Qty.	UOM.	Unit Cost (\$)	Asset Value (\$)	Actual Asset Condition Score	Max Possible Score	Asset Weighting Based Upon Asset Value	Asset Condition Weighted Score	Max. Possible Weighted Score	Cond. (%)	Condition Rating
<b>A10 Foundations</b>														
Capital Replacement	Fair	A10 Foundations	Foundations	103,800.00	LS	11.60	1,204,080.00	6	10.00	100%	6.00	10.00		
							<b>1,204,080.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>A20 Basement Construction</b>														
Capital Replacement	Fair	A20 Basement Construction	Basement Construction	103,800.00	LS	8.90	923,820.00	6	10.00	100%	6.00	10.00		
							<b>923,820.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>B10 SuperStructure</b>														
Deferred Maintenance	Fair	B10 SuperStructure	Concrete superstructure	1.00	LS	5,000.00	5,000.00	6	10.00	100%	6.00	10.00		
							<b>5,000.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>B20 Exterior Enclosure</b>														
Deferred Maintenance	Poor - Fair	B20 Exterior Enclosure	Clean, patch, repoint and seal exterior	16,561.00	SF	3.50	57,963.50	4	10.00	9%	0.36	0.90		
Capital Replacement	Fair	B20 Exterior Enclosure	Stucco over concrete superstructure	16,608.00	SF	14.98	248,787.84	6	10.00	39%	2.33	3.88		
Deferred Maintenance	Poor	B20 Exterior Enclosure	Sealant	1.00	EACH	18,000.00	18,000.00	2	10.00	3%	0.06	0.28		
Deferred Maintenance	Poor	B20 Exterior Enclosure	Windows - steel framed, single paned	8,300.00	SF	14.98	124,334.00	2	10.00	19%	0.39	1.94		
Deferred Maintenance	Poor	B20 Exterior Enclosure	Damaged stucco and spalled surface	4,152.00	SF	14.98	62,199.04	2	10.00	10%	0.19	0.97		
Capital Replacement	Fair	B20 Exterior Enclosure	Doors - solid exterior	52.00	EACH	2,495.00	129,740.00	6	10.00	20%	1.21	2.02		
							<b>641,024.38</b>	<b>22</b>			<b>4.54</b>	<b>10.00</b>	<b>55%</b>	<b>Poor</b>
<b>B30 Roofing</b>														
Capital Replacement	Fair - Good	B30 Roofing	Skylights under plexiglas structure	875.00	SF	39.94	34,947.50	8	10.00	5%	0.40	0.50		
Deferred Maintenance	Poor - Fair	B30 Roofing	Roofing membrane typically with	37,560.00	SF	5.90	221,604.00	4	10.00	32%	1.27	3.18		
Deferred Maintenance	Fair	B30 Roofing	Exposed coping	1,400.00	LF	15.97	22,358.00	6	10.00	3%	0.19	0.32		
Deferred Maintenance	Poor	B30 Roofing	Concrete roof panels at coping	260.00	SF	44.94	11,684.40	2	10.00	2%	0.03	0.17		
Capital Replacement	Fair - Good	B30 Roofing	Concrete roof pavers	8,000.00	SF	44.94	359,520.00	8	10.00	52%	4.13	5.16		
Deferred Maintenance	Poor - Fair	B30 Roofing	Individual skylights - 6	120.00	SF	39.94	4,792.80	4	10.00	1%	0.03	0.07		
Capital Replacement	Fair	B30 Roofing	Roofing membrane - aluminized	7,100.00	SF	5.90	41,890.00	6	10.00	6%	0.36	0.60		
							<b>696,796.70</b>	<b>38</b>			<b>6.42</b>	<b>10.00</b>	<b>36%</b>	<b>Fair</b>
<b>C10 Interior Construction</b>														
Capital Replacement	Fair	C10 Interior Construction	Interior Construction	103,800.00	LS	11.46	1,189,548.00	6	10.00	100%	6.00	10.00		
							<b>1,189,548.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>C20 Stairs</b>														
Deferred Maintenance	Poor	C20 Stairs	Headroom protection	2.00	EACH	100.00	200.00	2	10.00	8%	0.17	0.83		
Plant Adaptation	Poor	C20 Stairs	Steel railing	44.00	LF	49.93	2,196.92	2	10.00	92%	1.83	9.17		
							<b>2,396.92</b>	<b>4</b>			<b>2.00</b>	<b>10.00</b>	<b>80%</b>	<b>Poor</b>
<b>C30 Interior Finishes</b>														
Capital Replacement	Fair - Good	C30 Interior Finishes	Carpet broadloom to tiles	2,812.00	SY	45.74	128,620.88	8	10.00	11%	0.88	1.10		
Capital Replacement	Good	C30 Interior Finishes	Refinish and reline hardwood flooring	4,400.00	SF	5.00	22,000.00	10	10.00	2%	0.19	0.19		
Deferred Maintenance	Poor - Fair	C30 Interior Finishes	Acoustic tile ceiling	83,040.00	SF	12.22	1,014,748.80	4	10.00	87%	3.48	8.71		
							<b>1,165,369.68</b>	<b>22</b>			<b>4.55</b>	<b>10.00</b>	<b>54%</b>	<b>Poor</b>
<b>D10 Conveying Systems</b>														
Plant Adaptation	Poor	D10 Conveying Systems	Lift for common area and pool balcony	1.00	EACH	18,600.00	18,600.00	2	10.00	31%	0.62	3.11		
Deferred Maintenance	Poor - Fair	D10 Conveying Systems	Elevator	1.00	EACH	22,628.05	22,628.05	4	10.00	38%	1.51	3.78		
Capital Replacement	Fair	D10 Conveying Systems	Stair Lift	1.00	EACH	18,600.00	18,600.00	6	10.00	31%	1.87	3.11		
							<b>59,828.05</b>	<b>12</b>			<b>4.00</b>	<b>10.00</b>	<b>60%</b>	<b>Poor</b>
<b>D20 Plumbing</b>														
Capital Replacement	Good	D20 Plumbing	Domestic water storage tank	1.00	EACH	2,000.00	2,000.00	10	10.00	1%	0.09	0.09		
Capital Replacement	Fair - Good	D20 Plumbing	Urinal - typically wall mounted	14.00	EACH	1,235.00	17,290.00	8	10.00	8%	0.65	0.81		
Capital Replacement	Fair - Good	D20 Plumbing	Toilets - floor mounted	6.00	EACH	1,455.00	8,730.00	8	10.00	4%	0.33	0.41		

Plan Type	Condition	Element No.	Asset	Qty.	UOM.	Unit Cost (\$)	Asset Value (\$)	Actual Asset Condition Score	Max Possible Score	Asset Weighting Based Upon Asset Value	Asset Condition Weighted Score	Max. Possible Weighted Score	Cond. (%)	Condition Rating
Capital Replacement	Fair - Good	D20 Plumbing	Toilets - typically wall mounted	50.00	EACH	1,940.00	97,000.00	8	10.00	45%	3.63	4.54		
Deferred Maintenance	Poor - Fair	D20 Plumbing	Roof drains and interior leaders	300.00	LF	14.98	4,494.00	4	10.00	2%	0.08	0.21		
Capital Replacement	Fair	D20 Plumbing	Domestic water boiler - gas fired	645.00	MBH	30.00	19,350.00	6	10.00	9%	0.54	0.91		
Capital Replacement	Fair - Good	D20 Plumbing	Lavatory - wall hung	33.00	EACH	1,400.00	46,200.00	8	10.00	22%	1.73	2.16		
Capital Replacement	Good	D20 Plumbing	Pool water filter system	1.00	EACH	5,000.00	5,000.00	10	10.00	2%	0.23	0.23		
Capital Replacement	Fair - Good	D20 Plumbing	Floor mounted group sink	2.00	EACH	6,825.29	13,650.58	8	10.00	6%	0.51	0.64		
<b>D20 Plumbing</b>							<b>213,714.58</b>	<b>70</b>			<b>7.80</b>	<b>10.00</b>	<b>22%</b>	<b>Fair</b>
<b>D30 HVAC</b>														
Capital Replacement	Good	D30 HVAC	Exhaust Fan	3.00	EACH	5,000.00	15,000.00	10	10.00	2%	0.16	0.16		
Capital Replacement	Fair	D30 HVAC	Central AHU - Constant Volume	4.00	EACH	20,000.00	80,000.00	6	10.00	9%	0.51	0.86		
Capital Replacement	Good	D30 HVAC	Multistack chiller	260.00	TON	1,000.00	260,000.00	10	10.00	28%	2.78	2.78		
Capital Replacement	Fair	D30 HVAC	Circulation Pump/Motors 20 HP and 25	4.00	EACH	7,500.00	30,000.00	6	10.00	3%	0.19	0.32		
Capital Replacement	Good	D30 HVAC	Complete System- Outdoor and Indoor	3.00	TON	1,000.00	3,000.00	10	10.00	0%	0.03	0.03		
Capital Replacement	Fair	D30 HVAC	Pool water boiler	1.00	EACH	5,000.00	5,000.00	6	10.00	1%	0.03	0.05		
Capital Replacement	Fair	D30 HVAC	Heating boilers	17,724.00	MBH	20.00	354,480.00	6	10.00	38%	2.27	3.79		
Capital Replacement	Fair - Good	D30 HVAC	Cooling towers - two	260.00	TON	243.00	63,180.00	8	10.00	7%	0.54	0.68		
Capital Replacement	Good	D30 HVAC	Univent - Cooling and Heating	1.00	EACH	1,600.00	1,600.00	10	10.00	0%	0.02	0.02		
Capital Replacement	Fair	D30 HVAC	Univent - Supplemental Cooling and	30.00	EACH	1,600.00	48,000.00	6	10.00	5%	0.31	0.51		
Capital Replacement	Fair	D30 HVAC	Exhaust Fans for gym	3.00	EACH	5,000.00	15,000.00	6	10.00	2%	0.10	0.16		
Capital Replacement	Good	D30 HVAC	Central AHU - 2 for 1st floor and 1 for	3.00	EACH	20,000.00	60,000.00	10	10.00	6%	0.64	0.64		
<b>D30 HVAC</b>							<b>935,260.00</b>	<b>94</b>			<b>7.59</b>	<b>10.00</b>	<b>24%</b>	<b>Fair</b>
<b>D40 Fire Protection Systems</b>														
Capital Replacement	Good	D40 Fire Protection Systems	Sprinklers	1.00	LS	1.00	1.00	10	10.00	100%	10.00	10.00		
<b>D40 Fire Protection Systems</b>							<b>1.00</b>	<b>10</b>			<b>10.00</b>	<b>10.00</b>	<b>0%</b>	<b>Good</b>
<b>D50 Electrical Systems</b>														
Capital Replacement	Fair	D50 Electrical Systems	Main electrical service - 4000 amps	1.00	EACH	200,000.00	200,000.00	6	10.00	33%	1.95	3.25		
Capital Replacement	Good	D50 Electrical Systems	Light fixtures with T5	24.00	EACH	350.00	8,400.00	10	10.00	1%	0.14	0.14		
Deferred Maintenance	Poor - Fair	D50 Electrical Systems	Fire alarm panel and strobes	1.00	EACH	10,000.00	10,000.00	4	10.00	2%	0.07	0.16		
Deferred Maintenance	Poor - Fair	D50 Electrical Systems	Fluorescent Strip Fixture	1,100.00	EACH	200.00	220,000.00	4	10.00	36%	1.43	3.58		
Capital Replacement	Poor - Fair	D50 Electrical Systems	Light - H.P. Sodium Fixture	75.00	EACH	1,015.82	76,186.50	4	10.00	12%	0.50	1.24		
Capital Replacement	Fair	D50 Electrical Systems	Federal Pacific panelboards - 277/480	20.00	EACH	5,000.00	100,000.00	6	10.00	16%	0.98	1.63		
<b>D50 Electrical Systems</b>							<b>614,586.50</b>	<b>34</b>			<b>5.06</b>	<b>10.00</b>	<b>49%</b>	<b>Poor</b>
<b>E10 Equipment</b>														
Capital Replacement	Fair - Good	E10 Equipment	Commercial kitchen equipment	1.00	LS	15,000.00	15,000.00	8	10.00	100%	8.00	10.00		
<b>E10 Equipment</b>							<b>15,000.00</b>	<b>8</b>			<b>8.00</b>	<b>10.00</b>	<b>20%</b>	<b>Good</b>
<b>E20 Furnishings</b>														
Capital Replacement	Fair	E20 Furnishings	Furnishings	103,800.00	LS	0.13	13,494.00	6	10.00	100%	6.00	10.00		
<b>E20 Furnishings</b>							<b>13,494.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>G20 Site Improvements</b>														
Capital Replacement	Fair - Good	G20 Site Improvements	Rubber playground surface	4,000.00	SF	11.10	44,400.00	8	10.00	21%	1.66	2.07		
Capital Replacement	Good	G20 Site Improvements	Pool lining	1.00	EACH	2,000.00	2,000.00	10	10.00	1%	0.09	0.09		
Capital Replacement	Fair - Good	G20 Site Improvements	Brick Pavers	5,200.00	SF	13.40	69,680.00	8	10.00	33%	2.60	3.25		
Deferred Maintenance	Poor - Fair	G20 Site Improvements	Brick Pavers missing	1,000.00	SF	13.40	13,400.00	4	10.00	6%	0.25	0.63		
Capital Replacement	Fair - Good	G20 Site Improvements	Parking lots and drive aisles	27,600.00	SF	0.15	4,140.00	8	10.00	2%	0.15	0.19		
Capital Replacement	Good	G20 Site Improvements	Playground equipment	2.00	EACH	7,500.00	15,000.00	10	10.00	7%	0.70	0.70		
Deferred Maintenance	Poor - Fair	G20 Site Improvements	Concrete sidewalk - settled	2,280.00	SF	8.28	18,878.40	4	10.00	9%	0.35	0.88		
Deferred Maintenance	Poor	G20 Site Improvements	Vertical post sign at ADA stall	1.00	EACH	120.00	120.00	2	10.00	0%	0.00	0.01		
Deferred Maintenance	Poor - Fair	G20 Site Improvements	Concrete stepped seating	400.00	SF	87.00	34,800.00	4	10.00	16%	0.65	1.62		
Deferred Maintenance	Poor - Fair	G20 Site Improvements	Brick site walls with metal fencing	250.00	LF	25.00	6,250.00	4	10.00	3%	0.12	0.29		
Capital Replacement	Fair - Good	G20 Site Improvements	Epoxy coating on bridge	1,875.00	SF	3.00	5,625.00	8	10.00	3%	0.21	0.26		
<b>G20 Site Improvements</b>							<b>214,293.40</b>	<b>70</b>			<b>6.79</b>	<b>10.00</b>	<b>32%</b>	<b>Fair</b>
<b>G30 Site Civil/Mechanical Utilities</b>														
Capital Replacement	Fair	G30 Site Civil/Mechanical Utilities	G30 Site Civil/Mechanical Utilities	103,800.00	LS	0.56	58,128.00	6	10.00	100%	6.00	10.00		
<b>G30 Site Civil/Mechanical Utilities</b>							<b>58,128.00</b>	<b>6</b>			<b>6.00</b>	<b>10.00</b>	<b>40%</b>	<b>Fair</b>
<b>G40 Site Electrical Utilities</b>														
Deferred Maintenance	Poor - Fair	G40 Site Electrical Utilities	Building mounted light fixture	5.00	EACH	500.00	2,500.00	4	10.00	100%	4.00	10.00		
<b>G40 Site Electrical Utilities</b>							<b>2,500.00</b>	<b>4</b>			<b>4.00</b>	<b>10.00</b>	<b>60%</b>	<b>Poor</b>
<b>Z10 General Requirements</b>														
Plant Adaptation	Fair	Z10 General Requirements	Consider: ADA Investments	1.00	LS	20,295.00	20,295.00	6	10.00	1%	0.07	0.12		
Plant Adaptation	Fair - Good	Z10 General Requirements	Consider Green Roof Structural	1.00	LS	7,500.00	7,500.00	8	10.00	0%	0.04	0.04		

Plan Type	Condition	Element No.	Asset	Qty.	UOM.	Unit Cost (\$)	Asset Value (\$)	Actual Asset Condition Score	Max Possible Score	Asset Weighting Based Upon Asset Value	Asset Condition Weighted Score	Max. Possible Weighted Score	Cond. (%)	Condition Rating
Plant Adaptation	Fair	Z10 General Requirements	Consider: Safety Security Investments	1.00	LS	270,506.00	270,506.00	6	10.00	16%	0.96	1.60		
Plant Adaptation	Fair	Z10 General Requirements	Consider: Access Control Investments	1.00	LS	282,063.00	282,063.00	6	10.00	17%	1.00	1.66		
Plant Adaptation	Fair	Z10 General Requirements	Consider: Haz Mat Investments	1.00	LS	24,500.00	24,500.00	6	10.00	1%	0.09	0.14		
Plant Adaptation	Fair	Z10 General Requirements	Consider: LEED Investments	1.00	LS	498,396.00	498,396.00	6	10.00	29%	1.76	2.94		
Plant Adaptation	Fair - Good	Z10 General Requirements	Consider: Green Roof	43,560.00	SF	12.23	532,651.68	8	10.00	31%	2.51	3.14		
Plant Adaptation	Fair - Good	Z10 General Requirements	Consider: Fire Protection Investments	1.00	LS	59,978.00	59,978.00	8	10.00	4%	0.28	0.35		
<b>Z10 General Requirements</b>							<b>1,695,889.68</b>	<b>54</b>			<b>6.71</b>	<b>10.00</b>	<b>33%</b>	<b>Fair</b>

# DCPS PCA Property Rollup

## Assessment Images for Marshall Elementary School Property Images

### Primary Image:

View from southwest



### Image 2:

South elevations



### Image 3:

Amphitheater



## Property Images

### Image 4:

South elevation - east end



### Image 5:

East elevations



### Image 6:

Northeast corner elevation



### Image 7:

Elevations around amphitheater



# DCPS PCA Property Rollup

## Asset Images

### B1032 - CONCRETE FRAME STRUCTURE

#### Concrete superstructure

##### Column as bridge:

Asset Photo: Concrete superstructure.1



##### Evidence of damaged column in classroom - southwest corner of stage 2:

Asset Photo: Concrete superstructure.2



##### View of shifted column at northeast end of bridge:

Asset Photo: Concrete superstructure.3



## Asset Images

### Exterior of column with structural damage:

Asset Photo: Concrete superstructure.4



### Structural issue in pool equipment room:

Asset Photo: Concrete superstructure.5



## B2011 - EXTERIOR WALL CONSTRUCTION

### Clean, patch, repoint and seal exterior masonry

### Spalled brick faces and deteriorated mortar:

Asset Photo: Clean, patch, repoint and seal exterior masonry.1



## Asset Images

### Deteriorated mortar at cleaned test patch:

Asset Photo: Clean, patch, repoint and seal exterior masonry.2



### Stucco over concrete superstructure

#### Stucco covered concrete superstructure:

Asset Photo: Stucco over concrete superstructure.1



### Sealant

#### Evidence of damaged sealant:

Asset Photo: Sealant.1



## Asset Images

**Damaged sealant at perimeter allowing water to infiltrate:**

Asset Photo: Sealant.2



## Damaged stucco and spalled surface concrete of superstructure

**Cracking stucco at west end of building:**

Asset Photo: Damaged stucco over concrete superstructure.1



**Spalled concrete exposing rebar:**

Asset Photo: Damaged stucco over concrete superstructure.2



**Spalling exposing rebar along pool:**

Asset Photo: Damaged stucco and spalled surface concrete of superstructure.3



## Asset Images

### B2023 - STOREFRONTS

#### Windows - steel framed, single paned

**Rusted through metal frame at window with metal panel:**

Asset Photo: Windows - steel framed, single paned .1



**Severe rusting and deterioration at window frames:**

Asset Photo: Windows - steel framed, single paned .2



### B2032 - SOLID EXTERIOR DOORS

#### Doors - solid exterior

**Exterior doors:**

Asset Photo: Doors - solid exterior .1



## Asset Images

**Lack of weatherstripping at exterior doors:**

Asset Photo: Doors - solid exterior .2



## B3011 - ROOF FINISHES

**Roofing membrane typically with aggregate**

**Detail of roofing around drain:**

Asset Photo: Roofing membrane.1



**Partial overview:**

Asset Photo: Roofing membrane.2



## Asset Images

### Close up of membrane and patches:

Asset Photo: Roofing membrane.3



### Concrete roof panels at coping

#### Coping at multipurpose:

Asset Photo: Concrete roof panels at coping.1



#### Severely damaged coping at multipurpose:

Asset Photo: Concrete roof panels at coping.2



#### Missing coping sections at multipurpose:

Asset Photo: Concrete roof panels at coping.3



## Asset Images

### Concrete roof pavers

**Pavers over multipurpose/gym:**

Asset Photo: Concrete roof pavers.1



### Roofing membrane - aluminized

**Pool roofing:**

Asset Photo: Roofing membrane - aluminized.1



**Pool roofing detail:**

Asset Photo: Roofing membrane - aluminized.2



## B3021 - GLAZED ROOF OPENINGS

**Skylights under plexiglas structure**

## Asset Images

**Structure built over skylights on west end:**

Asset Photo: Skylights under plexiglas structure.1



### Individual skylights - 6

**Skylights on east:**

Asset Photo: 6 skylights .1



**Close up of condensation in skylight:**

Asset Photo: 6 skylights .2



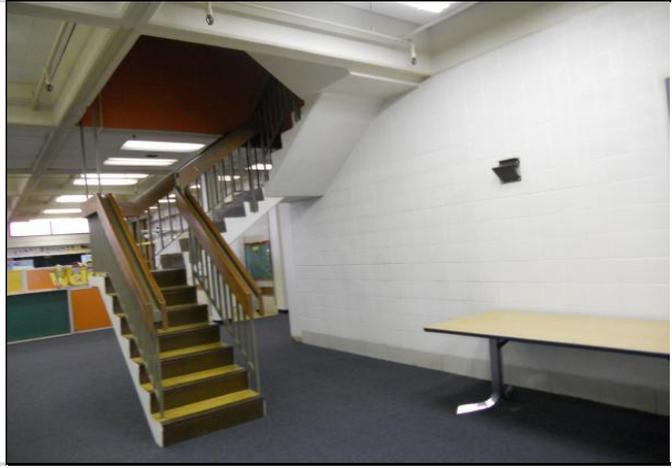
## C2011 - REGULAR STAIRS

**Headroom protection**

## Asset Images

**Stair with no headroom protection:**

Asset Photo: Headroom protection.1



## C2014 - STAIR HANDRAILS AND BALUSTRADES

**Steel railing**

**No railing on steps over 3 risers as required per code:**

Asset Photo: Steel railing.1



**No railing accessing amphitheater:**

Asset Photo: Steel railing.2



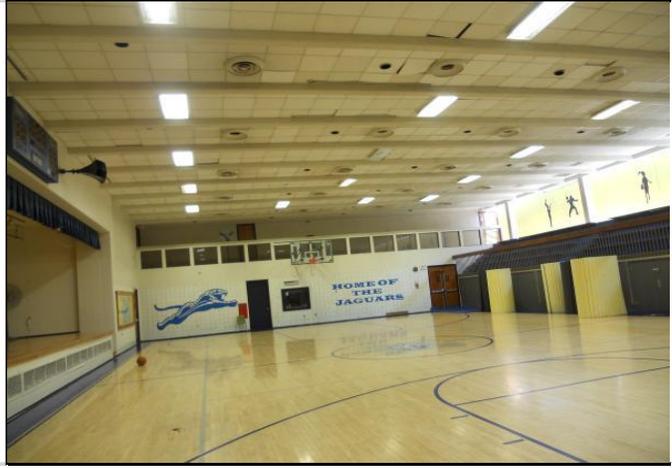
## C3024 - FLOORING

**Refinish and reline hardwood flooring**

## Asset Images

### Gym/auditorium flooring:

Asset Photo: Refinish and reline hardwood flooring .1



## C3025 - CARPETING

### Carpet broadloom to tiles

### Carpet:

Asset Photo: Carpet broadloom to tiles.1



## C3032 - SUSPENDED CEILINGS

### Acoustic tile ceiling

### Stained and missing ceiling tiles:

Asset Photo: Acoustic tile ceiling.1



## D1011 - PASSENGER ELEVATORS

### Elevator

## Asset Images

### Elevator cab:

Asset Photo: Elevator.1



### Elevator cab control panel:

Asset Photo: Elevator.2



### Elevator machinery:

Asset Photo: Elevator.3



## D1013 - LIFTS

Lift for common area and pool balcony

## Asset Images

**Stair access only for common area and pool balcony:**

Asset Photo: Lift for common area.1



### Stair Lift

**Stair lift :**

Asset Photo: Lift along stair.1



## D2011 - WATER CLOSETS

**Toilets - typically wall mounted**

**Toilet:**

Asset Photo: Toilets - typically wall mounted.1



## Asset Images

### Toilet:

Asset Photo: Toilets - typically wall mounted.2



## D2013 - LAVATORIES

### Lavatory - wall hung

### Lavatories:

Asset Photo: Lavatory - wall hung.1



## D2021 - COLD WATER SERVICE

### Pool water filter system

### Pool filter system:

Asset Photo: Pool water filter system.1



## D2022 - HOT WATER SERVICE

### Domestic water storage tank

## Asset Images

### Domestic water storage tank:

Asset Photo: Domestic water storage tank.1



## D2042 - ROOF DRAINS

### Roof drains and interior leaders

#### Roof drain:

Asset Photo: Roof drains and interior leaders.1



#### Area over portion of library with clogged drains:

Asset Photo: Roof drains and interior leaders.2



## Asset Images

**Damaged plaster where roof drains leak along leaders:**

Asset Photo: Roof drains and interior leaders.3



**Roof drain outlets:**

Asset Photo: Roof drains and interior leaders.4



**Roof leader:**

Asset Photo: Roof drains and interior leaders.5



## D3021 - BOILERS

**Pool water boiler**

## Asset Images

### Pool boiler:

Asset Photo: Pool water boiler.1



### Heating boilers

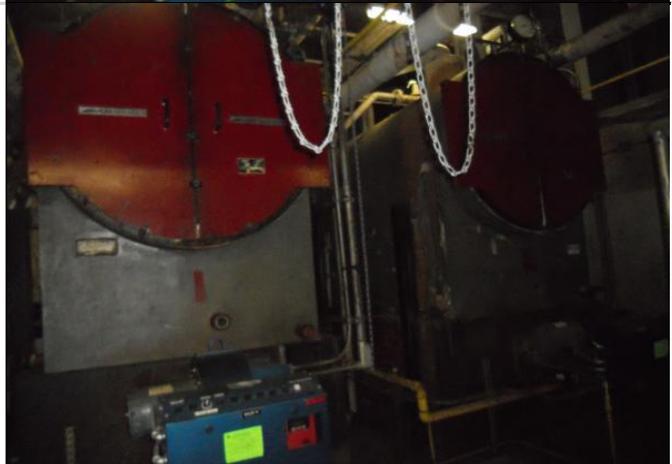
#### Boilers:

Asset Photo: Heating boilers.1



#### Burner:

Asset Photo: Heating boilers.2



## D3022 - BOILER ROOM PIPING & SPECIALTIES

Circulation Pump/Motors 20 HP and 25 HP

## Asset Images

### Circulation pump:

Asset Photo: Circulation Pump/Motors 20 HP and 25 HP.1



## D3031 - CHILLED WATER SYSTEMS

### Multistack chiller

#### Chiller:

Asset Photo: Multistack chiller.1



### Cooling towers - two

#### Algae growth on cooling towers:

Asset Photo: Cooling towers - two.1



## Asset Images

### Cooling towers:

Asset Photo: Cooling towers - two.2



## D3041 - AIR DISTRIBUTION SYSTEMS

### Central AHU - Constant Volume

#### Older air handler:

Asset Photo: Central AHU - Constant Volume.1



#### Fan missing belt on air handler:

Asset Photo: Central AHU - Constant Volume.2



### Central AHU - 2 for 1st floor and 1 for stage 2

## Asset Images

### Newer air handler:

Asset Photo: Central AHU - 2 for 1st floor and 1 for stage 2.1



### Newer air handler:

Asset Photo: Central AHU - 2 for 1st floor and 1 for stage 2.2



## D3042 - EXHAUST VENTILATION SYSTEMS

### Exhaust Fan

#### Pool exhaust fans:

Asset Photo: Exhaust Fan.1



### Exhaust Fans for gym

## Asset Images

### Older exhaust fans:

Asset Photo: Exhaust Fans for gym.1

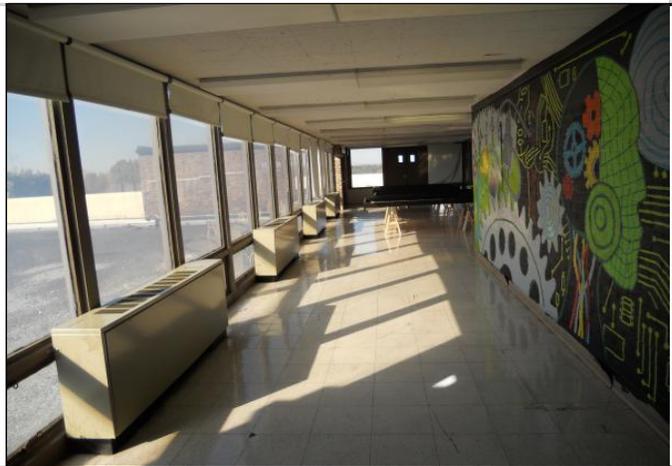


## D3052 - PACKAGE UNITS

### Univent - Cooling and Heating

#### Univents in mezzanine level:

Asset Photo: Univent - Cooling and Heating.1



## D5011 - HIGH TENSION SERVICE & DIST.

### Main electrical service - 4000 amps

#### Main electrical switchgear - Federal Pacific:

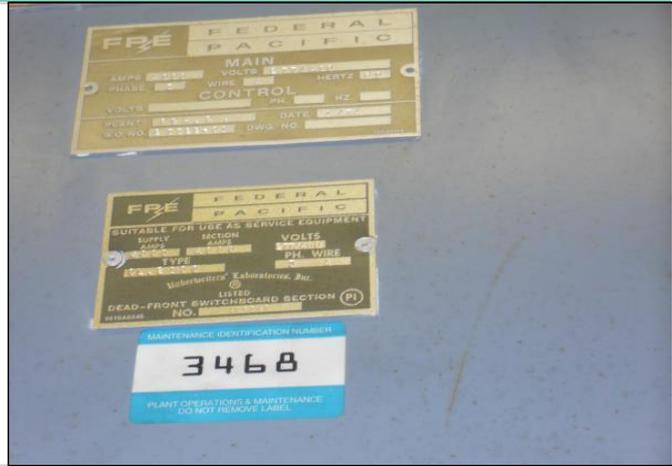
Asset Photo: Main electrical service - 4000 amps.1



## Asset Images

### Federal Pacific panel:

Asset Photo: Main electrical service - 4000 amps.2



## D5012 - LOW TENSION SERVICE & DIST.

### Federal Pacific panelboards - 277/480 volts, 225 amp

### Federal Pacific circuit boards:

Asset Photo: Federal Pacific panelboards - 277/480 volts, 225 amp.1

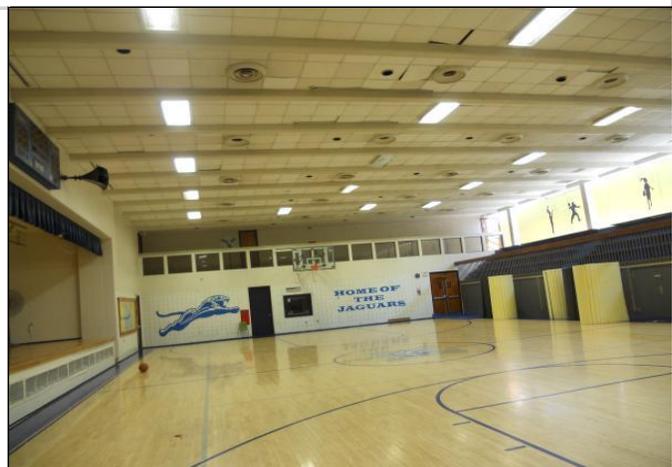


## D5022 - LIGHTING EQUIPMENT

### Light fixtures with T5

### Gym lighting:

Asset Photo: Light fixtures with T5.1



## Asset Images

### Gym light fixture:

Asset Photo: Light fixtures with T5.2



### Fluorescent Strip Fixture

#### Fixtures with broken pins:

Asset Photo: Fluorescent Strip Fixture.1



### Light - H.P. Sodium Fixture

#### Pool lights:

Asset Photo: Light - H.P. Sodium Fixture.1



## Asset Images

### Pool lighting:

Asset Photo: Light - H.P. Sodium Fixture.2



## D5037 - FIRE ALARM SYSTEMS

### Fire alarm panel and strobes

#### Fire alarm panel:

Asset Photo: Fire alarm panel and strobes.1



#### Interior of fire alarm panel:

Asset Photo: Fire alarm panel and strobes.2



## Asset Images

**Current fire safety equipment including alarm without strobe:**

Asset Photo: Fire alarm panel and strobes.3



## E1093 - FOOD SERVICE EQUIPMENT

**Commercial kitchen equipment**

**Commercial kitchen equipment:**

Asset Photo: Commercial kitchen equipment.1



## G2025 - MARKINGS & SIGNAGE

**Vertical post sign at ADA stall**

**Right side stall missing vertical sign:**

Asset Photo: Vertical post sign at ADA stall.1



## G2031 - PAVING & SURFACING

**Brick Pavers missing**

## Asset Images

### Missing brick pavers:

Asset Photo: Brick Pavers missing.1



### Concrete sidewalk - settled

### Pedestrian pavement:

Asset Photo: Concrete sidewalk - settled.1



### Area at rear - settled:

Asset Photo: Concrete sidewalk - settled.2



## G2033 - EXTERIOR STEPS

### Concrete stepped seating

## Asset Images

### South end step:

Asset Photo: Concrete stepped seating.1



### East end stepped seating with evidence of settlement:

Asset Photo: Concrete stepped seating.2

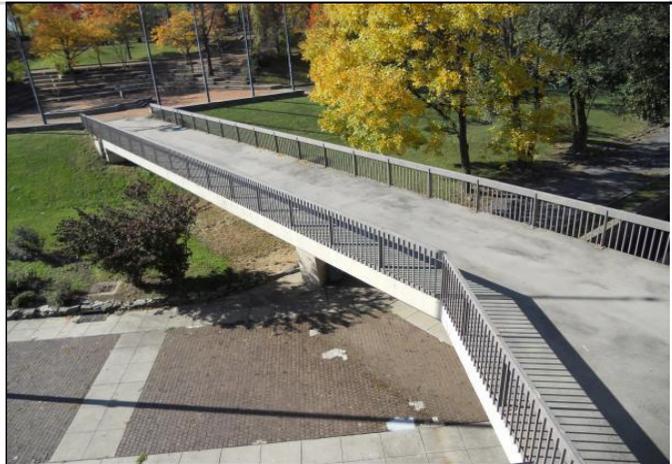


## G2034 - PEDESTRIAN BRIDGES

### Epoxy coating on bridge

### Bridge:

Asset Photo: Epoxy coating on bridge.1



## Asset Images

**Expansion joint with deteriorated sealant:**

Asset Photo: Epoxy coating on bridge.3



## G2043 - TERRACE & PERIMETER WALLS

**Brick site walls with metal fencing**

**Brick site wall with metal fencing:**

Asset Photo: Brick site walls with metal fencing.1



**Brick site wall:**

Asset Photo: Brick site walls with metal fencing.2



## G2045 - SITE FURNISHINGS

**Playground equipment**

## Asset Images

### Playground equipment:

Asset Photo: Playground equipment.1



## G2046 - FOUNTAINS, POOLS, & WATERCOURSES

### Pool lining

### Pool:

Asset Photo: Pool lining.1



## G2047 - PLAYING FIELDS

### Rubber playground surface

### Rubber tile playground surface at northeast:

Asset Photo: Rubber playground surface.1



## G4021 - FIXTURES & TRANSFORMERS

### Building mounted light fixture

## Asset Images

### Loose light fixtures:

Asset Photo: Building mounted light fixture.1



### Loose light fixtures:

Asset Photo: Building mounted light fixture.2



## Z1010.4 - CONSIDER: GREEN ROOF INVESTMENTS

### Consider: Green Roof

:

Asset Photo: Whole building green roof

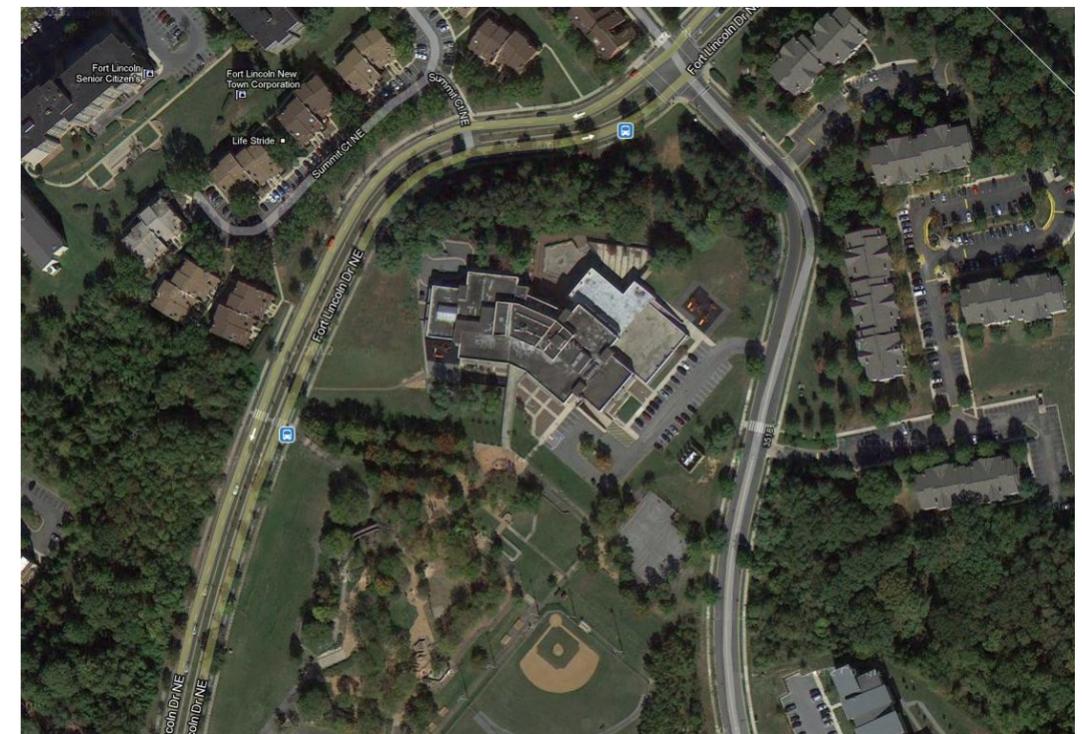
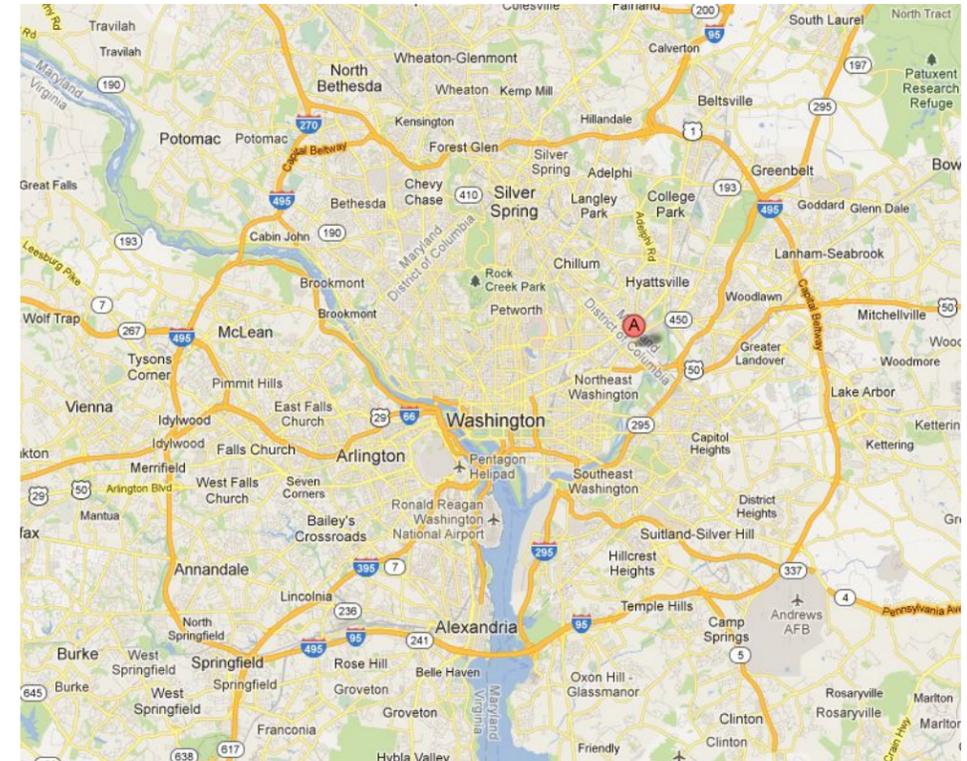


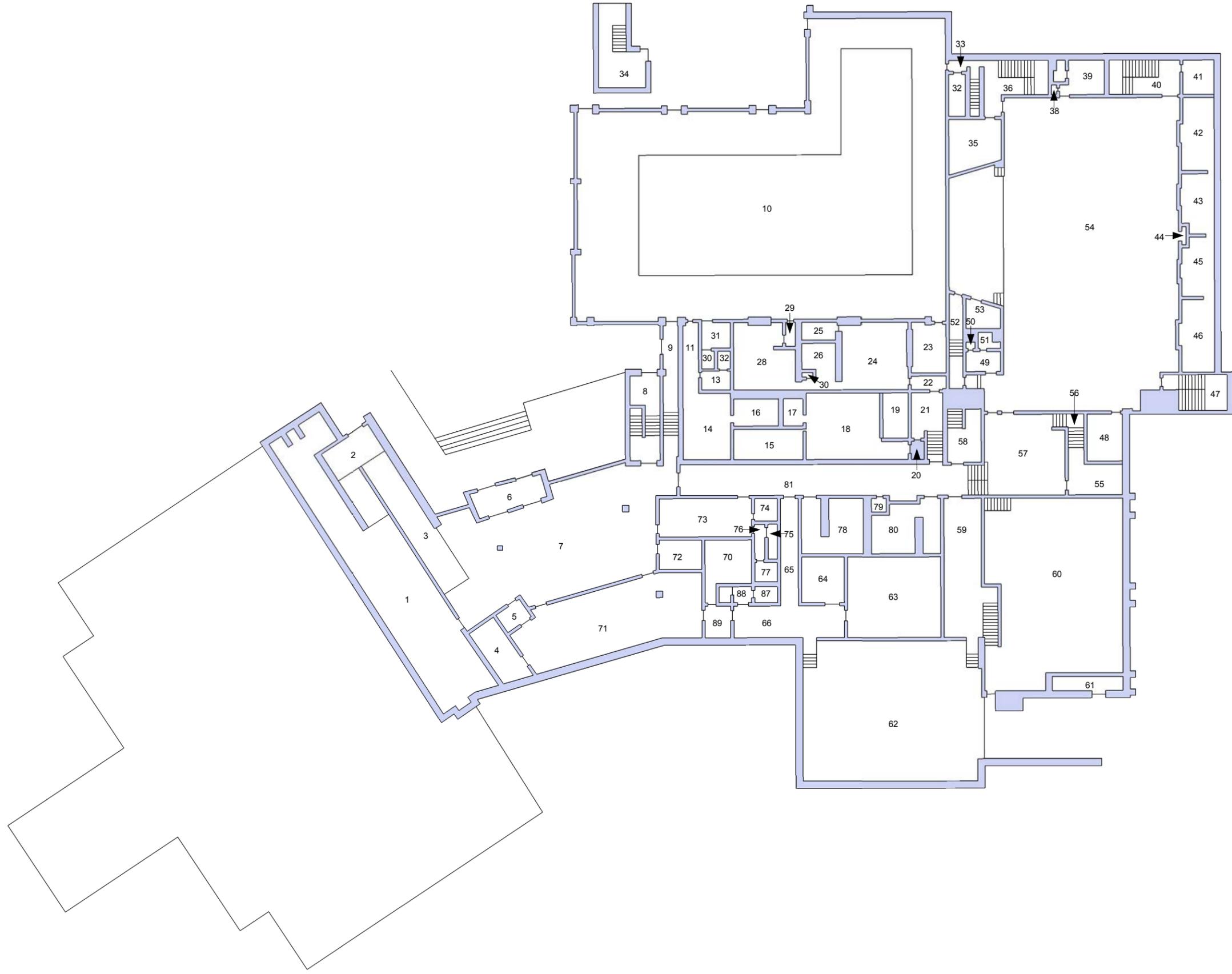
## Asset Images

:

Asset Photo: Green Roof Whole Buidling.2







# Below Plaza Level Thurgood Marshall Elementary

ISSUE  
12.15.12

PREPARED BY  
CI - 4tell / EMG

PROJECT  
Thurgood Marshall  
Elementary School

DC School NO.  
Ward 5

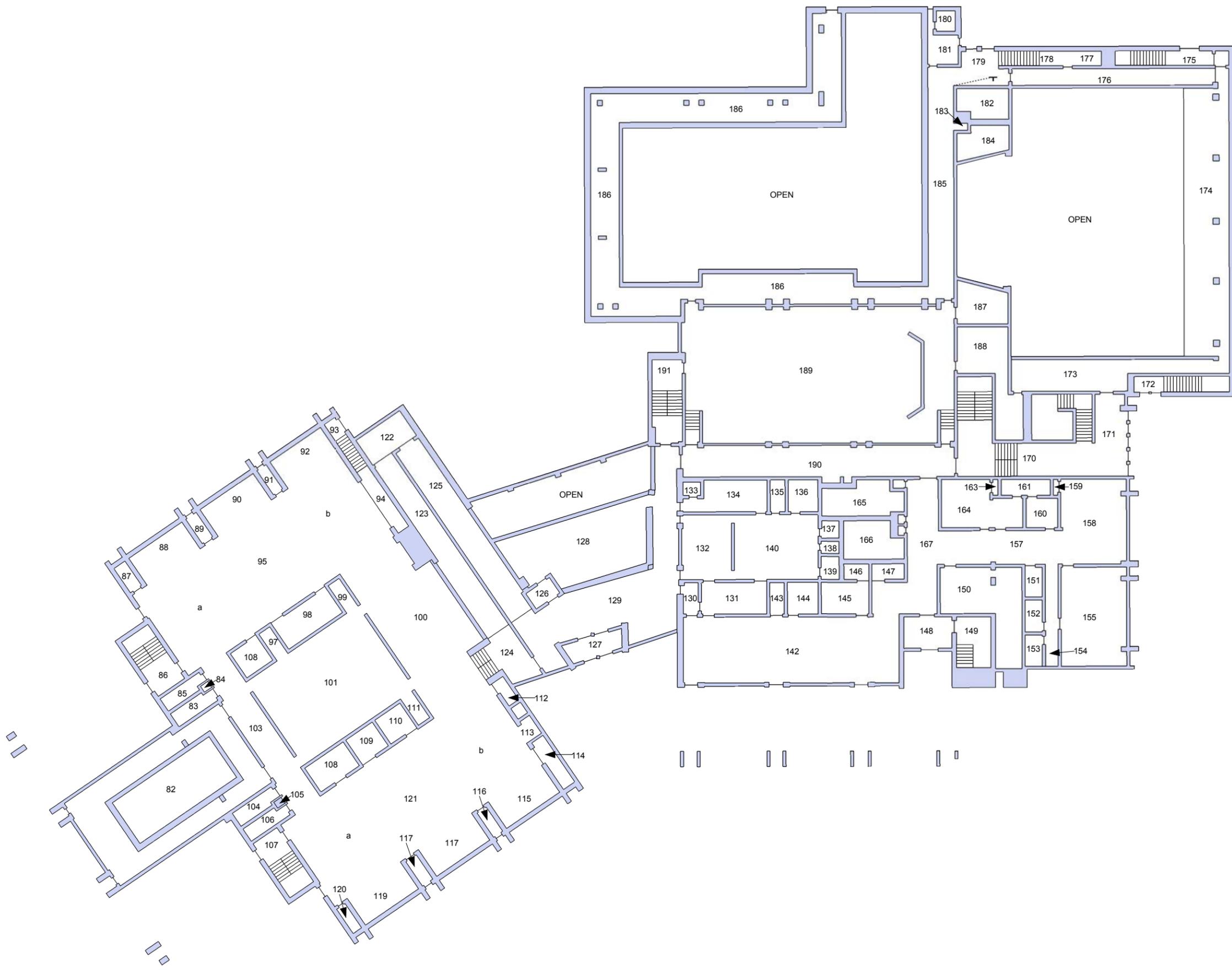
CLIENT  
District of Columbia  
Department of  
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# Plaza Level Thurgood Marshall Elementary

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Ward 5

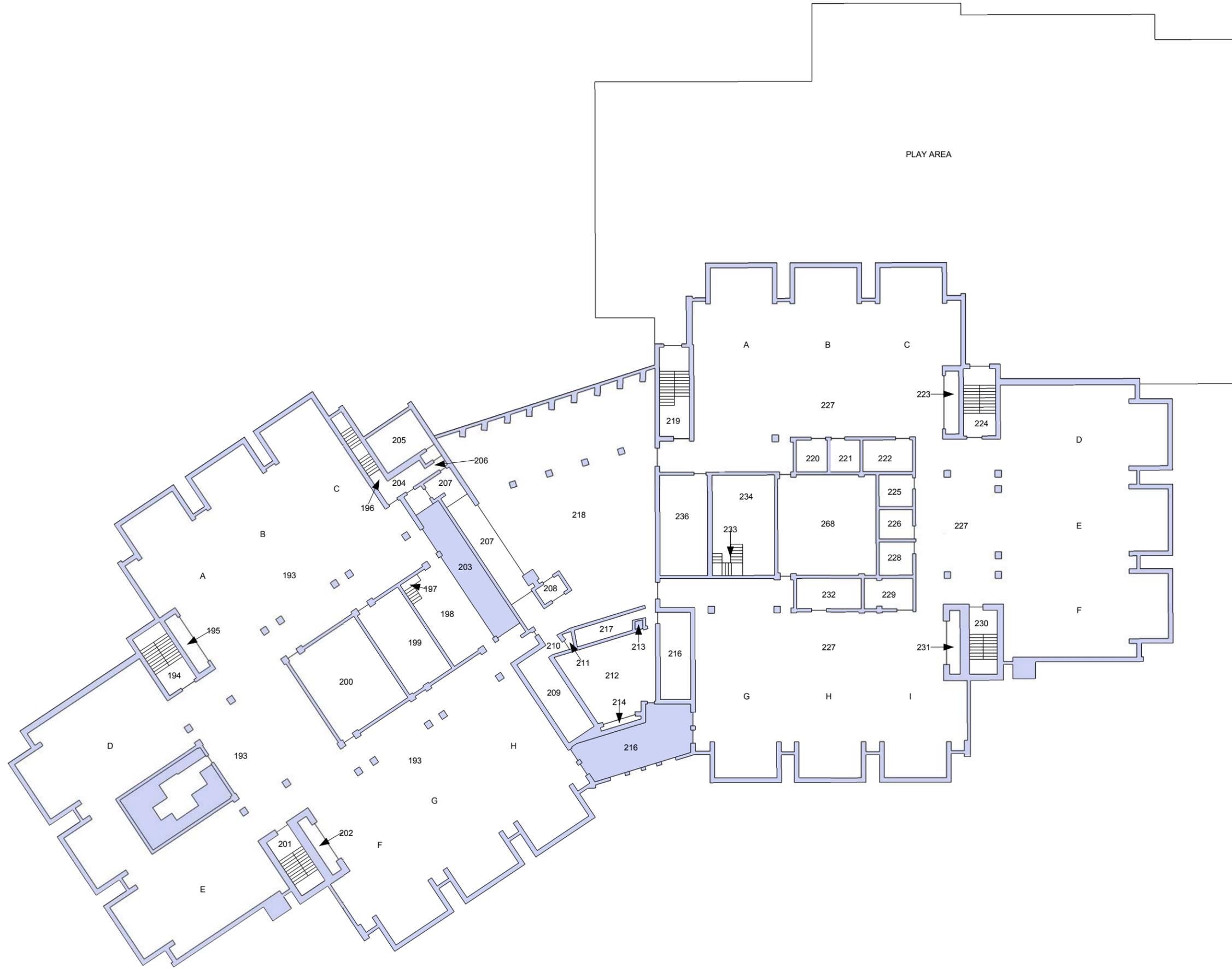
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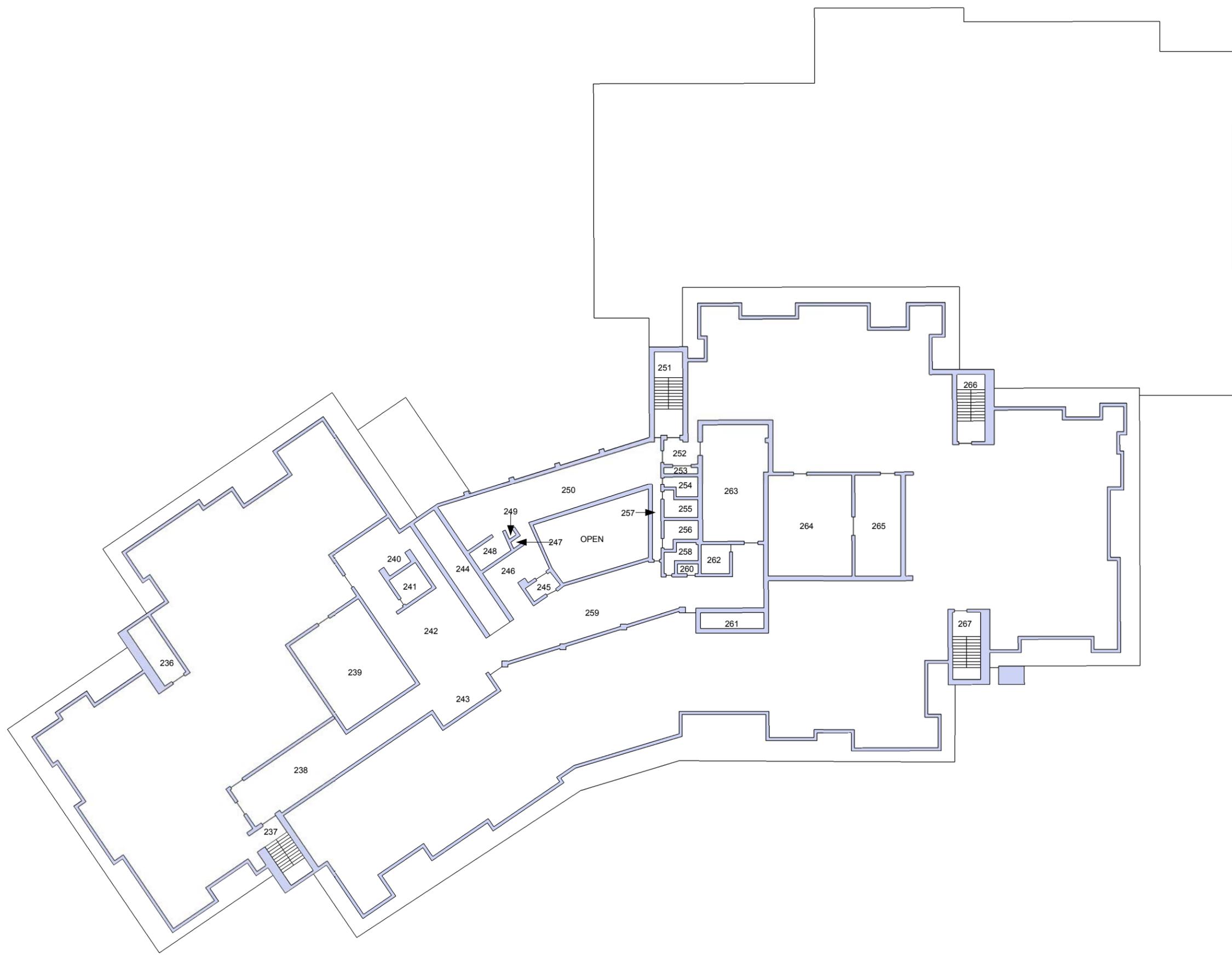
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# Mezzanine Level Thurgood Marshall Elementary

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Room Inventory		Thurgood Marshall Elementary			3100 Fort Lincoln Drive, N.E. 20018-4399		
Space No. [NOTE 1]	Room No. [From Pathways]	Space Type [NOTE 1]	Space Use [NOTE 1]	Space Use Detail	Room Type [From Pathways]	Approx. Square Footage [EMG Field Team]	Approx. Dim. in Feet [EMG Field Team]
1		Building Services	Mechanical Room			1764	18 98
2		Building Services	Landing			153	9 17
3		Building Services	Ramp	down		376	8 47
4		Building Services	Elevator Machine Room			162	9 18
5		Building Services	Elevator			54	6 9
6		Building Services	Vestibule			168	8 21
7		Building Services	Lobby			2100	35 60
8		Building Services	Stairwell			208	26 8
9		Building Services	Passage v/Steps			160	4 40
10		Building Services	Pool w/Deck			7280	65 11 2
11		Building Services	Passage			105	5 21
12		Building Services	Shower	Office		15	5 3
13		Administration	Office	Pool		40	5 8
14		Building Services	Shower Area	Women		280	14 20
15		Building Services	Drying Area	Women		189	9 21
16		Building Services	Toilet	Women		104	8 13
17		Building Services	Toilet	Women		48	8 6
18		Building Services	Locker Room	Women		440	20 22
19		Building Services	Storage Area			91	7 13
20		Building Services	Vestibule			15	5 3
21		Building Services	Stairs/Vestibule			117	13 9
22		Building Services	Vestibule			40	4 10
23		Building Services	Storage Area			150	15 10
24		Building Services	Locker Room	Men		400	20 20
25		Building Services	Toilet	Men		50	5 10
26		Building Services	Toilet	Men		70	10 7
27		Building Services	Custodians Closet			0	
28		Building Services	Shower Area	Men		400	20 20
29		Building Services	Vestibule			21	7 3
30		Building Services	Shower	Office		15	5 3
31		Administration	Office	Pool		56	7 8
32		Building Services	Storage Room	Pool Supplies		60	12 5
33		Building Services	Stairs			15	3 5
34		Building Services	Pool Machine Room			182	14 13
35		Building Services	Mechanical Room			272	17 16
36		Building Services	Stairwell			200	10 20
37		Building Services	Toilet/Shower	Office		18	3 6
38		Building Services	Closet	Office		6	2 3
39		Administration	Office	Physical Education		121	11 11
40		Building Services	Stairwell			210	10 21

Room Inventory		Thurgood Marshall Elementary			3100 Fort Lincoln Drive, N.E. 20018-4399		
Space No. [NOTE 1]	Room No. [From Pathways]	Space Type [NOTE 1]	Space Use [NOTE 1]	Space Use Detail	Room Type [From Pathways]	Approx. Square Footage [EMG Field Team]	Approx. Dim. in Feet [EMG Field Team]
41		Building Services	Storage Room			90	10 9
42		Building Services	Storage Room			198	22 9
43		Building Services	Storage Room			162	18 9
44		Building Services	Closet	Electrical		10	2 5
45		Building Services	Storage Room	Chairs		162	18 9
46		Building Services	Storage Room			198	22 9
47		Building Services	Stairwell			154	11 14
48		Building Services	Storage Room			140	14 10
49		Building Services	Office	Physical Education		60	6 10
50		Building Services	Closet	Office		4	2 2
51		Building Services	Toilet/Shower	Office		16	4 4
52		Building Services	Passage v/Steps			120	30 4
53		Building Services	Closet	Storage		90	9 10
54		Auxiliary	All Purpose Room			5184	96 54
55		Building Services	Storage	Custodian		144	9 16
56		Building Services	Stairs			60	4 15
57		Building Services	Lobby			576	24 24
58		Building Services	Stairwell			160	16 10
59		Building Services	Electrical Equipment Area			462	42 11
60		Building Services	Boiler Room			2226	42 53
61		Building Services	Exterior Storage			84	4 21
62		Building Services	Garage			2279	43 53
63		Building Services	General Storage			672	24 28
64		Building Services	Trash Room			182	14 13
65		Building Services	Passage			165	5 33
66		Building Services	Passage			306	9 34
67		Building Services	Toilet	Kitchen		24	4 6
68		Building Services	Locker Room	Kitchen		40	4 10
69		Building Services	Vestibule			0	
70		Building Services	Storage Room			182	13 14
71		Building Services	Kitchen			1000	20 50
72		Building Services	Dressing Room			117	9 13
73		Building Services	Office	Custodians		308	11 28
74		Building Services	Storage	Custodian		36	6 6
75		Building Services	Shower Room	Custodian		20	2 10
76		Building Services	Passage			40	4 10
77		Building Services	Toilet	Custodians		30	5 6
78		Building Services	Toilet	Women		323	17 19
79		Building Services	Custodians Closet			16	4 4
80		Building Services	Toilet	Men		357	21 17
81		Building Services	Corridor			930	10 93

# Room Inventory Thurgood Marshall Elementary

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Room Inventory		Thurgood Marshall Elementary			3100 Fort Lincoln Drive, N.E. 20018-4399		
Space No. [NOTE 1]	Room No. [From Pathways]	Space Type [NOTE 1]	Space Use [NOTE 1]	Space Use Detail	Room Type [From Pathways]	Approx. Square Footage [EMG Field Team]	Approx. Dim. in Feet [EMG Field Team]
82		Instruction	Play Room			555	15 37
83		Building Services	Toilet	Boys		60	4 15
84		Building Services	Utility Closet			9	3 3
85		Building Services	Toilet	Girls		60	4 15
86		Building Services	Stairwell			210	10 21
87		Building Services	Storage Room			36	4 9
88		Building Services	Alcove			200	10 20
89		Building Services	Passage			40	4 10
90		Building Services	Wet Area			200	10 20
91		Building Services	Passage			40	4 10
92		Building Services	Alcove			200	10 20
93		Building Services	Stairs			80	4 20
94		Building Services	Storage Closet			80	4 20
95B	95B	Instruction	Learning Center	Mont. PreK		1271	41 31
95A	95A	Instruction	Learning Center	Mont. PreK		1271	41 31
96		Instruction Support	Resource Room			40	4 10
97		Building Services	Closet	Supplies		40	4 10
98		Instruction Support	Resource Room			200	10 20
99		Building Services	Storage Closet	Supplies		40	4 10
100		Instruction Support	Resource Area			780	26 30
101		Building Services	Teacher Preparation Room			1344	42 32
102			VOID			0	
103		Building Services	Passage			550	10 55
104		Building Services	Toilet	Girls		60	4 15
105		Building Services	Custodians Closet			9	3 3
106		Building Services	Toilet	Boys		60	4 15
107		Building Services	Stairwell			200	10 20
108		Instruction Support	Resource Room			140	14 10
109		Instruction Support	Resource Room			100	10 10
110		Instruction Support	Resource Room			100	10 10
111		Building Services	Storage Closet	Supplies		40	10 4
112		Building Services	Toilet	Staff		32	8 4
113		Building Services	Bath Tub	Pre-Kindergarten		12	3 4
114		Building Services	Storage Room			68	4 17
115		Building Services	Alcove			200	10 20
116		Building Services	Passage			40	4 10
117		Building Services	Wet Area			200	10 20

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118		Building Services	Passage			40	4 10
119		Building Services	Alcove			200	10 20
120		Building Services	Storage Closet			27	3 9
121A	121A	Instruction	Learning Center	Mont. PreK		1722	41 42
121B	121B	Instruction	Learning Center	ElemPreK		1722	41 42
122		Building Services	Landing			144	9 16
123		Building Services	Ramp	down		455	7 65
124		Building Services	Landing			112	7 16
125		Building Services	Ramp	up		455	7 65
126		Building Services	Elevator			45	5 9
127A	127A			ElemPrimary	3rd	0	
127B	127B	Building Services	Vestibule	ElemResource	sped	96	6 16
127C	127C			ElemIntermediate	41004	0	
127D/E	127D/E	ElemPrimary	2nd	ElemPrimary	2nd	0	
127E/F	127E/F	Mont Primary	NULL	Mont Primary		0	
127G/H	127G/H	ElemKind	NULL	ElemKind		0	
127H/I	127H/I	ElemPrimary	1st	ElemPrimary	1st	0	
128		Building Services	Common Area			1071	21 51
129		Building Services	Lobby			266	7 38
130		Building Services	Vestibule			40	4 10
131		Building Services	Office			200	10 20
132		Administration	Outer Office	Main Office		320	20 16
133		Building Services	Toilet	Principal		20	4 5
134		Administration	Office	Principal		200	10 20
135		Building Services	Closet	Main Office		40	4 10
136		Administration	Office	P.A. System		90	9 10
137		Building Services	Toilet	Staff		25	5 5
138		Building Services	Closet	Main Office		15	3 5
139		Building Services	Toilet	Staff		35	7 5
140		Building Services	Main Office			540	20 27
141			VOID			0	
142		Auxiliary	Multi-Services Center			1360	20 68
143		Building Services	Storage Closet			40	10 4
144		Administration	Office	Counselor		90	10 9
145		Administration	Office			150	10 15
146		Building Services	Toilet	Office		32	4 8
147		Building Services	Toilet	Office		40	4 10
148		Building Services	Vestibule			150	10 15
149		Building Services	Stairwell			160	10 16
150		Building Services	Mechanical Room			364	14 26
151		Building Services	Storage Closet			45	9 5

# Room Inventory Thurgood Marshall Elementary

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152		Building Services	Toilet	Women		50	10	5
153		Building Services	Toilet	Men		45	9	5
154		Building Services	Storage Closet			24	6	4
155		Instruction Support	Resource Room			620	31	20
156			VOID			0		
157		Building Services	Corridor			400	10	40
158		Instruction Support	Computer Lab			540	27	20
159		Building Services	Storage Closet			10	2	5
160		Administration	Office	Attendance		90	9	10
161		Auxiliary	Work Room	Equipment		75	5	15
162			VOID			0		
163		Building Services	Storage Closet			10	2	5
164		Administration	Office			225	15	15
165		Building Services	Toilet	Men		231	11	21
166		Building Services	Toilet	Women		228	12	19
167		Building Services	Corridor			420	10	42
168		Building Services	Custodians Closet			6	2	3
169		Building Services	Stairwell			310	10	31
170		Building Services	Passage v/Steps			430	10	43
171		Building Services	Lobby			260	10	26
172		Building Services	Stairs			120	4	30
173		Building Services	Gallery			700	10	70
174		Building Services	Bleachers			1190	85	14
175		Building Services	Stairs			144	4	36
176		Building Services	Gallery			325	5	65
177		Building Services	Storage Room			52	4	13
178		Building Services	Stairs			128	4	32
179		Building Services	Vestibule			100	10	10
180		Building Services	Toilet/Shower	Recreation		36	6	6
181		Administration	Office	Recreation		100	10	10
182		Building Services	Toilet	Boys		160	10	16
183		Building Services	Custodians Closet			6	2	3
184		Building Services	Toilet	Girls		144	9	16
185		Building Services	Corridor			536	8	67
186		Building Services	Pool Gallery W/Bleachers			784	8	98
187		Building Services	Storage Room			208	13	16
188		Building Services	Storage Room	Custodian		224	14	16
189		Building Services	Common Area			3910	46	85
190		Building Services	Passage w/Railing			860	10	86
191		Building Services	Stairwell			260	26	10
192		Building Services	Passage			304	8	38

Room Inventory		Thurgood Marshall Elementary			3100 Fort Lincoln Drive, N.E. 20018-4399			
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193H	193H	Instruction	Learning Center	Vacant		1040	20	52
193G	193G	Instruction	Learning Center	Vacant		1040	20	52
193F	193F	Instruction	Learning Center	Vacant		1040	20	52
193E	193E	Instruction	Learning Center	Vacant		1040	20	52
193D	193D	Instruction	Learning Center	Vacant		1040	20	52
193C	193C	Instruction	Learning Center	Vacant		1040	20	52
193B	193B	Instruction	Learning Center	Vacant		1040	20	52
193A	193A	Instruction	Learning Center	Vacant	Was middle school program	1040	20	52
194		Building Services	Stairwell			210	10	21
195		Building Services	Storage Closet			80	4	20
196		Building Services	Stairs			128	4	32
197		Building Services	Stairs			28	4	7
198		Building Services	Wet Area			465	15	31
199		Instruction Support	Computer Lab			480	16	30
200		Building Services	Teacher Preparation Room			750	25	30
201		Building Services	Stairwell			160	8	20
202		Building Services	Storage Closet			60	3	20
203		Building Services	Ramp	down		376	8	47
204		Building Services	Toilet	Men		60	6	10
205		Building Services	Teachers Lounge			30	6	5
206		Building Services	Toilet	Women		24	4	6
207		Building Services	Ramp	down		100	10	10
208		Building Services	Elevator			40	5	8
209		Building Services	Toilet	Boys		270	9	30
210		Building Services	Vestibule			24	6	4
211		Building Services	Custodians Closet			15	5	3
212		Instruction Support	Resource Room	Equipment		750	25	30
213		Building Services	Alcove			4	2	2
214		Building Services	Storage Closet			26	2	13
215		Building Services	Lobby			715	13	55
216		Building Services	Toilet	Girls		280	10	28
217		Building Services	Storage Closet			85	5	17
218		Auxiliary	Library			4161	73	57
219		Building Services	Stairwell			252	28	9
220		Administration	Office	Counselor		100	10	10
221		Administration	Office	Special Education		100	10	10
222		Instruction Support	Resource Room	Assistant Principal		150	10	15
223		Building Services	Storage Closet			80	4	20

# Room Inventory Thurgood Marshall Elementary

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224		Building Services	Stairwell			210	21	10
225		Administration	Office	Special Education		100	10	10
226		Administration	Office			100	10	10
227	I	Instruction	Learning Center	Classroom	2nd Grade	1080	20	54
227	H	Instruction	Learning Center	Classroom	ESL	1080	20	54
227	G	Instruction	Learning Center	Classroom	Reading	1080	20	54
227	F	Instruction	Learning Center	Classroom	4th Grade	1080	20	54
227	E	Instruction	Learning Center	Classroom		1080	20	54
227	D	Instruction	Learning Center	Classroom	3rd Grade	1080	20	54
227	C	Instruction	Learning Center	Classroom	1st Grade	1080	20	54
227	B	Instruction	Learning Center	Classroom	Special Education	1080	20	54
227	A	Instruction	Learning Center	Classroom	5th Grade	1080	20	54
228		Administration	Office			100	10	10
229		Instruction Support	Resource Room			150	10	15
230		Building Services	Stairwell			160	20	8
231		Building Services	Storage Closet			60	3	20
232		Instruction Support	Resource Room			180	9	20
233		Building Services	Stairs			100	10	10
234		Building Services	Wet Area			640	20	32
235		Building Services	Storage Room	Books		480	32	15
236		Building Services	Stairwell			210	10	21
237		Building Services	Stairwell			210	10	21
238		Building Services	Passage			952	14	68
239	Mezz	Building Services	Mechanical Room	ElemScience	STEM	832	26	32
240	Mezz	Building Services	Storage Closet	ElemScience	STEM	24	3	8
241	Mezz	Building Services	Stairs	ElemScience	STEM	100	10	10
242	Mezz	Instruction Support	Resource Area	ElemScience	STEM	832	26	32
243	Mezz	Building Services	Storage Closet	ElemScience	STEM	120	6	20
244	Mezz	Building Services	Ramp	ElemScience	STEM	301	7	43
245	Mezz	Building Services	Elevator	ElemScience	STEM	45	9	5
246	Mezz	Building Services	Passage	ElemScience	STEM	119	7	17
247	Mezz	Building Services	Closet	ElemScience	STEM	88	8	11
248	Mezz	Building Services	Dark Room	ElemScience	STEM	66	6	11
249	Mezz	Building Services	Closet	ElemScience	STEM	9	3	3
250	Mezz	Instruction Support	Resource Room	ElemScience	STEM	1200	75	16
251	Mezz	Building Services	Stairwell	ElemScience	STEM	243	9	27
252	Mezz	Building Services	Vestibule	ElemScience	STEM	70	7	10
253	Mezz	Building Services	Storage Closet	ElemScience	STEM	30	3	10

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254	Mezz	Building Services	Toilet	ElemScience	STEM	60	6	10
255	Mezz	Building Services	Toilet	ElemScience	STEM	60	6	10
256	Mezz	Building Services	Toilet	ElemScience	STEM	60	6	10
257	Mezz	Building Services	Passage	ElemScience	STEM	96	4	24
258	Mezz	Building Services	Toilet	ElemScience	STEM	60	6	10
259	Mezz	Instruction Support	Resource Area	ElemScience	STEM	969	17	57
260	Mezz	Building Services	Custodians Closet	ElemScience	STEM	18	3	6
261	Mezz	Auxiliary	Greenhouse	ElemScience	STEM	100	5	20
262	Mezz	Building Services	Stairs	ElemScience	STEM	100	10	10
263	Mezz	Auxiliary	Planetarium	ElemScience	STEM	740	20	37
264	Mezz	Building Services	Mechanical Room	ElemScience	STEM	832	32	26
265	Mezz	Building Services	Fan Room	ElemScience	STEM	448	32	14
266		Building Services	Stairwell			168	21	8
267		Building Services	Stairwell			168	21	8
268		Building Services	Teacher Preparation Room			0		
Approximate Gross Square Footage - Below Plaza Level						35801		
Approximate Gross Square Footage - Plaza Level						36861		
Approximate Gross Square Footage - Above Plaza Level						43458		
Approximate Gross Square Footage - Mezzanine						33959		
[NOTE 1] Source - Government of DC - Office of Public Education Facility Modernization - Recommendation to Revise Official Building Capacity								

# Room Inventory Thurgood Marshall Elementary

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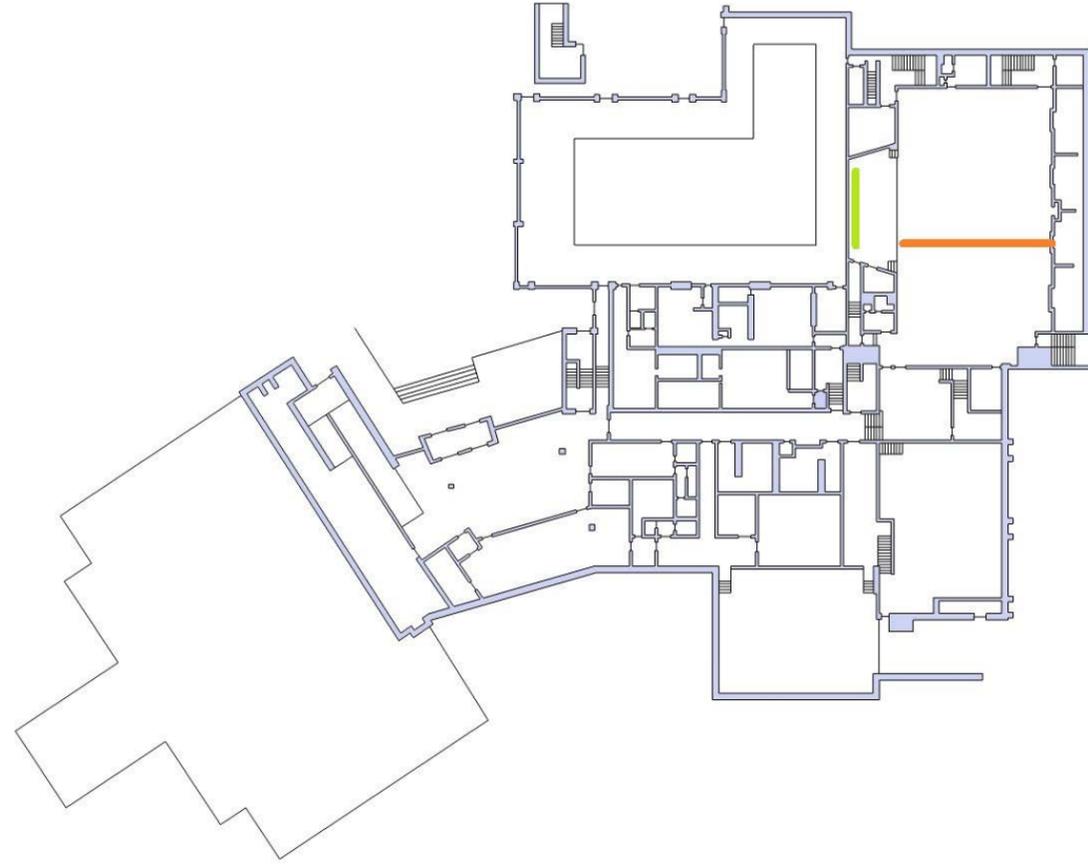
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Below Plaza Level



Plaza Level



**Fixture Diagrams  
Thurgood Marshall  
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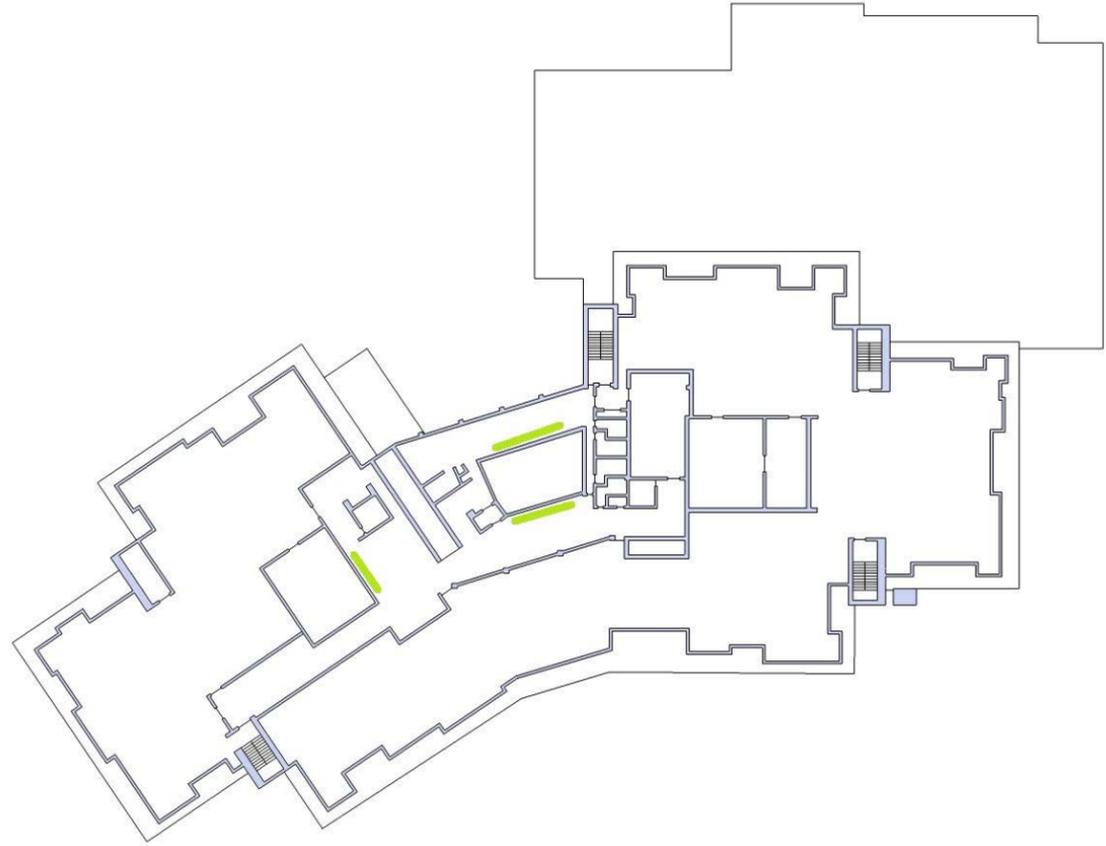
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Above Plaza Level



Mezzanine Level



	Drinking Fountain
	Sinks
	Radiators and Univents
	Lockers
	Chank Boards and Smart Boards
	Cabinets
	New Walls
	Sliding or Folding Wall
	Removed Wall

# Fixture Diagrams Thurgood Marshall Elementary

ISSUE  
12.15.12

PREPARED BY  
CI - 4tell / EMG

PROJECT  
Thurgood Marshall  
Elementary School  
DC School NO.  
Ward 5

CLIENT  
District of Columbia  
Department of  
General Services

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15 Franklin Street  
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800.750.4424

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