

FACILITY CONDITION ASSESSMENT

Prepared for

Ann Arbor Public Schools
2555 South State Street
Ann Arbor, Michigan 48104



PREPARED BY:

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EMG PROJECT #:

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DATE OF REPORT:

July 2, 2018

ONSITE DATE:

February 27-28, 2018

FACILITY CONDITION ASSESSMENT

OF

SLAUSON MIDDLE SCHOOL
1019 WEST WASHINGTON
ANN ARBOR, MICHIGAN 48103



engineering | environmental | capital planning | project management

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Immediate Repairs Report

Slauson Middle School

7/2/2018



EMG Renamed Item Number	Location Description	ID	Cost Description	Quantity	Unit	Unit Cost *	Subtotal	Deficiency Repair Estimate *
D30	Interiors	885567	Air Conditioning, Central, Install	190090	SF	\$11.50	\$2,186,035	\$2,186,035
	Site	958681	Davis Bacon Prevailing Wages, Surcharge for Prevailing Wages, 10% surcharge for prevailing wages	140882.58	LS	\$1.15	\$162,015	\$162,015
Immediate Repairs Total								\$2,348,050

* Location Factor (1) included in totals.

Replacement Reserves Report

Slauson Middle School



10/23/2019

Location	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	Total Escalated Estimate
Slauson Middle School	\$2,348,050	\$1,289,576	\$4,537,176	\$1,573,784	\$5,411,843	\$549,154	\$227,990	\$2,524,147	\$1,315,306	\$219,741	\$240,803	\$2,352,367	\$4,830,540	\$277,332	\$1,448,120	\$280,049	\$485,304	\$883,522	\$1,523,337	\$1,320,774	\$532,281	\$34,171,197
Grand Total	\$2,348,050	\$1,289,576	\$4,537,176	\$1,573,784	\$5,411,843	\$549,154	\$227,990	\$2,524,147	\$1,315,306	\$219,741	\$240,803	\$2,352,367	\$4,830,540	\$277,332	\$1,448,120	\$280,049	\$485,304	\$883,522	\$1,523,337	\$1,320,774	\$532,281	\$34,171,197

Uniformat Code	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	Deficiency Repair Estimate
_0001	885567	Air Conditioning, Central, Install	50	50	0	190090	SF	\$11.50	\$2,186,035	\$2,186,035																				\$2,186,035	
B2011	867586	Exterior Wall, Brick or Brick Veneer, 3+ Stories, Repoint	25	18	7	16000	SF	\$52.27	\$836,262													\$836,262									\$836,262
B2021	867596	Window, Aluminum Double-Glazed 24 SF, 3+ Stories, Replace	30	25	5	150	EA	\$1,075.04	\$161,256								\$161,256														\$161,256
B2032	867549	Exterior Door, Steel, Replace	25	18	7	20	EA	\$1,092.64	\$21,853																						\$21,853
B2032	867582	Exterior Door, Steel w/ Safety Glass, Replace	25	18	7	15	EA	\$1,555.63	\$23,334																						\$23,334
B2034	869385	Overhead Door, Aluminum Roll-Up 288 SF, Replace	35	18	17	1	EA	\$7,884.18	\$7,884																				\$7,884	\$7,884	
B3011	867559	Roof, Single-Ply EPDM Membrane, Replace	20	8	12	65000	SF	\$12.10	\$786,370																						\$786,370
B3011	867688	Roof, Metal, Replace	40	28	12	9000	SF	\$14.32	\$128,858																						\$128,858
C1021	867598	Interior Door, Wood Solid-Core, Replace	20	13	7	168	EA	\$1,636.58	\$274,945																						\$274,945
C1023	947095	Exterior Door Hardware, Electronic Door Locks ANSI F39 Lockset, Replace	30	29	1	15	EA	\$1,546.75	\$23,201		\$23,201																				\$23,201
C1031	867579	Toilet Partitions, Metal Overhead-Braced, Replace	20	13	7	70	EA	\$977.50	\$68,425																						\$68,425
C1033	869614	Lockers, Steel Baked Enamel 12" W x 15" D x 72" H, 1 to 5 Tiers, Replace	20	8	12	750	EA	\$554.88	\$416,156																						\$416,156
C3012	867609	Interior Wall Finish, Concrete/Masonry, Prep & Paint	8	5	3	351700	SF	\$1.67	\$586,460				\$586,460																		\$586,460
C3024	867631	Interior Floor Finish, Vinyl Tile (VCT), Replace	15	12	3	114000	SF	\$5.52	\$629,280				\$629,280																		\$629,280
C3024	867510	Interior Floor Finish, Ceramic Tile, Replace	50	38	12	38000	SF	\$18.12	\$688,712																						\$688,712
C3025	867523	Interior Floor Finish, Carpet Standard-Commercial Medium-Traffic, Replace	10	8	2	38000	SF	\$8.35	\$317,262				\$317,262																		\$317,262
C3031	867634	Interior Ceiling Finish, Exposed/Generic, Prep & Paint	10	5	5	4000	SF	\$2.61	\$10,442																						\$10,442
C3032	867540	Interior Ceiling Finish, Acoustical Tile (ACT) Dropped Fiberglass, Replace	20	18	2	180000	SF	\$8.33	\$1,499,850				\$1,499,850																		\$1,499,850
C3032	867632	Interior Ceiling Finish, Acoustical Tile (ACT) Standard, Replace	20	8	12	2000	SF	\$5.81	\$11,615																						\$11,615
D1011	868464	Elevator Controls, Automatic, 1 or 2 Car Cluster, Modernize	20	13	7	2	EA	\$13,279.34	\$26,559																						\$26,559
D1011	868440	Elevator, Hydraulic, 1500 to 2500 LB, 3 Floors, Renovate	30	18	12	2	EA	\$166,160.28	\$332,321																						\$332,321
D1019	868438	Elevator Cab Finishes, Standard w/out Stainless Steel Doors, Replace	10	8	2	2	EA	\$3,450.00	\$6,900				\$6,900																		\$6,900
D2011	867622	Toilet, Tankless (Water Closet), Replace	20	2	18	70	EA	\$969.42	\$67,859																						\$67,859
D2012	867565	Urinal, Vitreous China, Replace	20	13	7	12	EA	\$1,372.46	\$16,469																						\$16,469
D2014	867633	Sink, Vitreous China, Replace	20	13	7	30	EA	\$990.74	\$29,722																						\$29,722
D2014	867541	Sink, Stainless Steel, Replace	20	10	10	6	EA	\$1,212.16	\$7,273																						\$7,273
D2017	869643	Shower, Ceramic Tile, Replace	30	13	17	30	EA	\$2,281.35	\$68,440																						\$68,440
D2018	867547	Drinking Fountain, Refrigerated, Replace	10	4	6	20	EA	\$1,446.14	\$28,923																						\$28,923
D2023	867558	Water Heater, Gas, Commercial, 60 to 120 GAL., Replace	15	12	3	1	EA	\$12,303.64	\$12,304				\$12,304																		\$12,304
D2043	867595	Sump Pump, 1/2 HP, Replace	15	11	4	2	EA	\$2,372.23	\$4,744																						\$4,744
D2091	867522	Air Compressor, controls duplex, 3 HP, Replace	20	13	7	1	EA	\$11,100.04	\$11,100																						\$11,100
D3016	960775	Solar Instillation Project, Roof Mounted Solar Instillation, Install	20	12	8	762000	SF	\$1.15	\$876,300																						\$876,300
D3021	867603	Boiler, Gas, 4,201 to 10,000 MBH, Replace	25	11	14	1	EA	\$382,797.63	\$382,798																						\$382,798
D3021	869650	Boiler, Gas, 4,201 to 10,000 MBH, Replace	25	11	14	1	EA	\$382,797.63	\$382,798																						\$382,798
D3031	868442	Chiller, Air-Cooled, 61 to 80 Ton, Replace	25	13	12	1	EA	\$122,638.43	\$122,638																						\$122,638
D3032	868406	Condenser, Air-Cooled, 5 Ton, Replace	15	13	2	1	EA	\$4,873.03	\$4,873																						\$4,873
D3032	867619	Condenser, Air-Cooled, 5 Ton, Replace	15	10	5	1	EA	\$4,873.03	\$4,873																						\$4,873
D3041	867594	Air Handler, Exterior, 10,001 to 16,000 CFM, Replace	15	10	5	1	EA	\$81,320.28	\$81,320																						\$81,320
D3041	868499	Air Handler, Exterior, 10,001 to 16,000 CFM, Replace	15	8	7	1	EA	\$81,320.28	\$81,320																						\$81,320
D3041	868502	Air Handler, Interior, 30,001 to 40,000 CFM, Replace	30	18	12	1	EA	\$107,737.39	\$107,737																						\$107,737
D3041	868504	Air Handler, Interior, 50,001 to 65,000 CFM, Replace	30	13	17	1	EA	\$219,840.98	\$219,841																						\$219,841
D3042	867528	Exhaust Fan, Centrifugal, 251 to 800 CFM, Replace	15	10	5	20	EA	\$2,325.15	\$46,503																						\$46,503
D3044	867529	Distribution Pump, Heating Water, 5 HP, Replace	20	13	7	2	EA	\$6,346.71	\$12,693																						\$12,693
D3051	867564	Air Conditioner, Window/Thru-Wall, 1.5 to 2 Ton, Replace	10	6	4	10	EA	\$2,976.80	\$29,768																						\$29,768
D3051	869673	Unit Heater, Hydronic, 13 to 36 MBH, Replace	20	11	9	2	EA	\$1,744.32	\$3,489																						\$3,489
D3068	945818	Building Automation System (HVAC Controls), Upgrade	20	18	2	190090	SF	\$6.16	\$1,171,715																						\$1,171,715
D4019	938949	Sprinkler System, Full Retrofit, Multi-Family (per SF), Renovate	50	46	4	150000	SF	\$8.36	\$1,254,075					</																	

Uniformat Code	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	Deficiency Repair Estimate
D5032	947094	Intercom Master Station, Replace	20	19	1	1	EA	\$4,386.68	\$4,387		\$4,387																				\$4,387
D5036	945819	Clock and Bell System, Wireless or Ethernet Enabled, Up To 100 Total Clocks / Bells, Replace	15	14	1	190090	SF	\$0.59	\$111,488		\$111,488														\$111,488						\$222,976
D5037	869675	Fire Alarm System, School, Install	20	18	2	190090	SF	\$3.60	\$684,229			\$684,229																			\$684,229
D5037	867612	Fire Alarm Control Panel, Addressable, Replace	15	12	3	1	EA	\$23,342.23	\$23,342				\$23,342														\$23,342				\$46,684
D5038	947096	Security/Surveillance System, Cameras and CCTV, Install	10	9	1	190090	SF	\$5.00	\$950,925		\$950,925										\$950,925										\$1,901,850
E1023	867608	Stage Curtain, Medium Weight Velour, Flameproof (per SF), Replace	15	8	7	3500	SF	\$14.95	\$52,325							\$52,325															\$52,325
E1027	869583	Dust Collection System, Replace, Replace	30	18	12	1	EA	\$11,101.78	\$11,102												\$11,102										\$11,102
E1093	867680	Commercial Kitchen, Walk-In Refrigerator, Replace	20	18	2	1	EA	\$14,093.25	\$14,093			\$14,093																			\$14,093
E1093	869699	Commercial Kitchen, Exhaust Hood, Replace	15	13	2	1	EA	\$8,707.48	\$8,707			\$8,707															\$8,707				\$17,415
E1093	869700	Commercial Kitchen, Dishwasher, Replace	10	8	2	1	EA	\$22,611.09	\$22,611			\$22,611									\$22,611										\$45,222
E1093	867602	Commercial Kitchen, Steamer, Tabletop, Replace	10	5	5	1	EA	\$7,295.60	\$7,296					\$7,296										\$7,296							\$14,591
E1093	867601	Commercial Kitchen, Refrigerator, 2-Door Reach-In, Replace	15	8	7	1	EA	\$4,894.40	\$4,894							\$4,894															\$4,894
E1093	867604	Commercial Kitchen, Convection Oven, Double, Replace	10	3	7	1	EA	\$9,939.45	\$9,939							\$9,939											\$9,939				\$19,879
E1093	867668	Commercial Kitchen, Range/Oven, 4-Burner w/ Griddle, Replace	15	8	7	2	EA	\$7,046.63	\$14,093							\$14,093															\$14,093
E1093	869698	Commercial Kitchen, Food Warmer, Replace	15	8	7	1	EA	\$1,784.70	\$1,785							\$1,785															\$1,785
E1093	867675	Commercial Kitchen, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	\$6,674.60	\$6,675							\$6,675															\$6,675
E1093	867679	Commercial Kitchen, Walk-In Freezer, Replace	20	8	12	1	EA	\$25,664.71	\$25,665												\$25,665										\$25,665
E1099	869615	Bleacher, Telescoping Manual, to 15 Tier, Replace	20	13	7	180	EA	\$324.30	\$58,374							\$58,374															\$58,374
F1029	958681	Davis Bacon Prevailing Wages, Surcharge for Prevailing Wages, 10% surcharge for prevailing wages	1	1	0	140882.58	LS	\$1.15	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$162,015	\$3,402,314
F1041	867791	Aquatics, Swimming Pool Pump, 11 to 20 HP, Replace	10	7	3	2	EA	\$13,417.36	\$26,835				\$26,835										\$26,835								\$53,669
F1041	868050	Swimming Pool Heater, Gas-Fired, 750 MBH, Replace	15	8	7	1	EA	\$19,807.60	\$19,808							\$19,808															\$19,808
F1041	868049	Swimming Pool Filtration System, Replace	15	8	7	1	EA	\$7,743.28	\$7,743							\$7,743															\$7,743
G2022	867555	Parking Lots, Asphalt Pavement, Seal & Stripe	5	3	2	30000	SF	\$0.44	\$13,110			\$13,110									\$13,110						\$13,110				\$52,440
G2022	867539	Parking Lots, Asphalt Pavement, Mill & Overlay	25	18	7	30000	SF	\$3.77	\$113,160							\$113,160															\$113,160
G2031	869420	Pedestrian Pavement, Sidewalk, Concrete Large Areas, Replace	30	18	12	16000	SF	\$10.35	\$165,600												\$165,600										\$165,600
G2035	869707	Exterior Stairs & Ramps, Handrails, Metal, Replace	25	18	7	1000	LF	\$57.50	\$57,500							\$57,500															\$57,500
G2035	869709	Exterior Stairs & Ramps, Concrete (per LF of Nosing), Replace	25	18	7	1150	LF	\$44.19	\$50,824							\$50,824															\$50,824
G2041	867627	Fences & Gates, Chain Link, 6' High, Replace	30	18	12	1000	LF	\$43.17	\$43,169												\$43,169										\$43,169
G2044	869672	Signage, Property, Monument/Pylon, Replace	20	10	10	1	EA	\$9,892.30	\$9,892											\$9,892											\$9,892
G2045	867518	Site Furnishings, Picnic Table, Plastic-Coated Metal, Replace	20	8	12	5	EA	\$1,600.23	\$8,001												\$8,001										\$8,001
G2045	867574	Site Furnishings, Park Bench, Metal/Wood/Plastic, Replace	20	8	12	10	EA	\$560.08	\$5,601												\$5,601										\$5,601
G2047	867504	Play Surfaces & Sports Courts, Asphalt, Seal & Stripe	5	3	2	4000	SF	\$0.44	\$1,750			\$1,750				\$1,750					\$1,750						\$1,750				\$7,001
G2047	867635	Sports Apparatus, Softball Backstop, Replace	10	8	2	1	EA	\$10,850.99	\$10,851			\$10,851									\$10,851										\$21,702
G2047	869662	Sports Apparatus, Scoreboard, Replace	20	13	7	2	EA	\$24,272.51	\$48,545							\$48,545															\$48,545
G2047	867618	Play Surfaces & Sports Courts, Asphalt, Replace	25	18	7	4000	SF	\$6.79	\$27,140							\$27,140															\$27,140
G2048	869674	Flagpole, Metal, Replace	20	11	9	1	EA	\$2,909.50	\$2,910										\$2,910												\$2,910
G4021	867606	Pole Light, Exterior, 105 to 200 W LED (Fixture & Bracket Arm Only), Replace	20	3	17	10	EA	\$3,798.45	\$37,985																		\$37,985				\$37,985
Totals, Unescalated										\$2,348,050	\$1,252,016	\$4,276,723	\$1,440,235	\$4,808,352	\$473,705	\$190,938	\$2,052,363	\$1,038,315	\$168,413	\$179,180	\$1,699,400	\$3,388,044	\$188,850	\$957,378	\$179,753	\$302,425	\$534,545	\$894,800	\$753,219	\$294,711	\$27,421,416
Totals, Escalated (3.0% inflation, compounded annually)										\$2,348,050	\$1,289,576	\$4,537,176	\$1,573,784	\$5,411,843	\$549,154	\$227,990	\$2,524,147	\$1,315,306	\$219,741	\$240,803	\$2,352,367	\$4,830,540	\$277,332	\$1,448,120	\$280,049	\$485,304	\$883,522	\$1,523,337	\$1,320,774	\$532,281	\$34,171,197

* Markup/LocationFactor (1) has been included in unit costs. Markup includes a and 15% Ann Arbor Premium factors applied to the location adjusted unit cost.

TABLE OF CONTENTS

1. Executive Summary	1
Property Information and General Physical Condition	1
Key Findings	2
Facility Condition Index (FCI)	2
2. Building Structure	4
A10 Foundations.....	4
B10 Superstructure.....	4
3. Building Envelope	6
B20 Exterior Vertical Enclosures	6
4. Interiors	9
C10 Interior Construction.....	9
5. Services (MEPF).....	11
D10 Conveying Systems	11
D20 Plumbing	12
D30 Building Heating, Ventilating, and Air Conditioning (HVAC)	13
D40 Fire Protection.....	15
D50 Electrical.....	16
D60 Communications	17
D70 Electronic Safety and Security	17
6. Equipment & Furnishings	19
E10 Equipment	19
7. Sitework	21
G20 Site Improvements.....	21
G30 Liquid & Gas Site Utilities	24
G40 Electrical Site Improvements	25
8. Ancillary Structures	26
9. Opinions of Probable Costs	27
9.1 Methodology	27
9.2 Immediate Repairs	27
9.3 Replacement Reserves	27
10. Purpose and Scope	28
10.1 Purpose	28
10.2 Scope	29
11. Accessibility and Property Research	30
11.1 ADA Accessibility.....	30
12. Certification	31
13. Appendices	32

1. Executive Summary

1.1. Property Information and General Physical Condition

The property information is summarized in the table below. More detailed descriptions may be found in the various sections of the report and in the Appendices.

Property Information		
Address:	1019 West Washington Ann Arbor, Michigan 48103	
Year Constructed/Renovated:	1937	
Current Occupants:	Slauson Middle School	
Percent Utilization:	100%	
Management Point of Contact:	Ann Arbor Public Schools/Facilities, Jim Vibbart, Maintenance Supervisor	
Property Type:	Middle School	
Site Area:	12.0 acres	
Building Area:	190,090 SF	
Number of Buildings:	One	
Number of Stories:	Three	
Parking Type and Number of Spaces:	70 spaces in open lots	
Building Construction:	Masonry bearing walls and concrete-topped metal decks.	
Roof Construction:	Flat roofs with single-ply membrane.	
Exterior Finishes:	Brick Veneer	
Heating, Ventilation & Air Conditioning:	Central system with boilers, chiller, air handlers, and rooftop units feeding hydronic terminal units. Supplemental components: ductless split-systems, suspended unit heaters.	
Fire and Life/Safety:	Partial fire sprinklers, hydrants, smoke detectors, alarms, strobes, extinguishers, pull stations, alarm panel, and exit signs.	
ADA :	This building does not have any major ADA issues.	
All 190,090 square feet of the building are occupied by a single occupant, Slauson Middle School. The spaces are a combination of offices, classrooms, extracurricular spaces, and supporting restrooms, mechanical and other utility spaces.		
Most of the interior spaces were observed in order to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, exterior of the property and the roof. All areas of the property were available for observation during the site visit.		
Key Spaces Not Observed		
Room Number	Area	Access Issues
NA	Exterior Storage Shed	Locked room and no key
A "down unit" or area is a term used to describe a unit or space that cannot be occupied due to poor conditions such as fire damage, water damage, missing equipment, damaged floor, wall or ceiling surfaces, or other significant deficiencies. There are no down units or areas.		
Assessment Information		
Dates of Visit:	February 27-28, 2018	
On-Site Point of Contact (POC):	None	

Assessment Information	
Assessment and Report Prepared by:	Sean Luxem
Reviewed by:	Al Diefert Technical Report Reviewer For Andrew Hupp Program Manager ahupp@emgcorp.com 800.733.0660 x6632

1.2. Key Findings

Site : Areas of asphalt and concrete are showing deterioration.

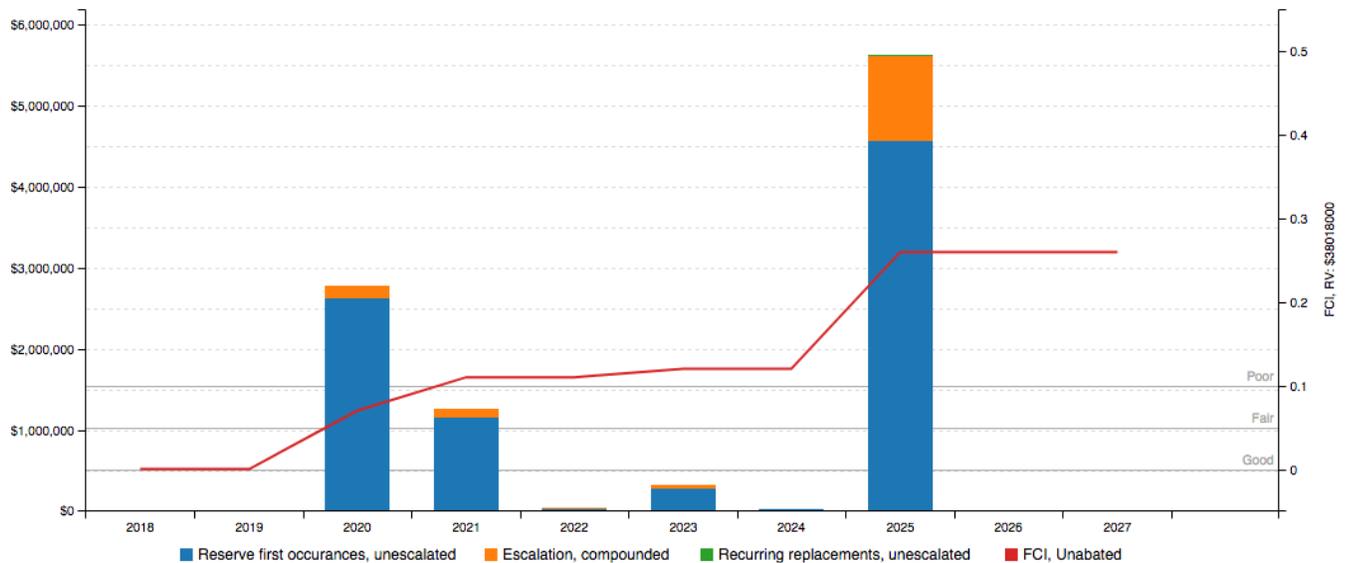
Architectural : None.

MEPF : Majority of the systems are antiquated, and would benefit from replacement.

1.3. Facility Condition Index (FCI)

FCI Analysis: Slauson Middle School

Replacement Value: \$ 38,018,000; Inflation rate: 3.0%



One of the major goals of the FCA is to calculate the FCI, which gives an indication of a building’s overall condition. Two FCI ratios are calculated and presented, the Current Year and Ten-Year. The Current Year FCI is the ratio of Immediate Repair Costs to the building’s Current Replacement Value. Similarly, the Ten-Year FCI is the ratio of anticipated Capital Reserve Needs over the next ten years to the Current Replacement Value.

FCI Rating	Definition	Percentage Value
Good	In new or well-maintained condition, with no visual evidence of wear, soiling or other deficiencies.	0 to .05



FCI Rating	Definition	Percentage Value
Fair	Subjected to wear and soiling but is still in a serviceable and functioning condition.	> than .05 to .10
Poor	Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.	> than .10 to .60
Very Poor	Has reached the end of its useful or serviceable life. Renewal is now necessary.	> than .60

The graphs above and tables below represent summary-level findings for the FCA. The deficiencies identified in this assessment can be combined with potential new construction requirements to develop an overall strategy that can serve as the basis for a portfolio-wide capital improvement funding strategy. Key findings from the assessment include:

KEY FINDING	METRIC
Current Year Facility Condition Index (FCI) FCI = (IR)/(CRV):	0.00%
Current Year FCI Rating:	2018
10-Year Facility Condition Index (FCI) FCI = (RR)/(CRV):	26.40%
10-Year FCI Rating	0.26
Current Replacement Value (CRV):	\$38,018,000
Year 0 (Current Year) - Immediate Repairs (IR):	\$0
Years 1-10 - Replacement Reserves (RR):	\$10,035,979
Total Capital Needs:	\$10,035,979

Further detail on the specific costs that make up the Immediate Repair Costs can be found in the cost tables at the beginning of this report.

2. Building Structure

A10 Foundations

Building Foundation		
Item	Description	Condition
Foundation	Slab on grade with integral footings	Good
Basement and Crawl Space	Concrete slab and masonry walls	Good

Anticipated Lifecycle Replacements

- No components of significance

Actions/Comments:

- Isolated areas of the foundation systems are exposed, which allows for limited observation. There are no significant signs of settlement, deflection, or movement.

B10 Superstructure

B1010 Floor Construction & B1020 Roof Construction		
Item	Description	Condition
Framing / Load-Bearing Walls	Masonry walls	Good
Ground Floor	Concrete slab	Good
Roof Framing	Steel beams or girders	Good
Roof Decking	Metal decking with concrete topping	Good

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
None	NA	<input type="checkbox"/>	None	NA	<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- The superstructure is exposed in some locations, which allows for limited observation. Walls and floors appear to be plumb, level, and stable. There are no significant signs of deflection or movement.

B1080 Stairs					
Type	Description	Riser	Handrail	Balusters	Condition
Building Exterior Stairs	Concrete stairs	Closed	Metal	Metal	Fair
Building Interior Stairs	Concrete stairs with ceramic tile treads	Closed	Metal	Metal	Fair

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended.

3. Building Envelope

B20 Exterior Vertical Enclosures

B2010 Exterior Walls		
Type	Location	Condition
Primary Finish	Brick veneer	Good
Secondary Finish	Concrete	Fair
Accented with	NA	--
Soffits	Concealed	Fair
Building sealants	Between dissimilar materials, at joints, around windows and doors	Fair

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Graffiti		<input type="checkbox"/>	Efflorescence		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Masonry repointing

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance, including patching repairs, and re-caulking, is highly recommended. Future lifecycle replacements of the components listed above will be required.

B2020 Exterior Windows				
Window Framing	Glazing	Location	Window Screen	Condition
Aluminum framed, fixed	Double glaze	Throughout	<input type="checkbox"/>	Fair
Aluminum framed, operable	Double glaze	Classrooms	<input checked="" type="checkbox"/>	Fair

B2050 Exterior Doors		
Main Entrance Doors	Door Type	Condition
	Vinyl coated, insulated	Good
Secondary Entrance Doors	Vinyl coated, insulated	Good

B2050 Exterior Doors		
Service Doors	Metal, insulated	Fair
Overhead Doors	Aluminium	Fair

Anticipated Lifecycle Replacements:

- Windows
- Exterior doors
- Overhead door

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

B3010 Primary Roof			
Location	Main Building	Finish	Single-ply membrane
Type / Geometry	Flat	Roof Age	11 Years
Flashing	Sheet metal	Warranties	Unkown
Parapet Copings	Parapet with sheet metal coping	Roof Drains	Internal drains
Fascia	Metal Panel	Insulation	Rigid Board
Soffits	Concealed Soffits	Skylights	No
Attics	Concrete-topped steel decks	Ventilation Source-1	None
Roof Condition	Fair	Ventilation Source-2	--

B3010 Secondary Roof			
Location	Pool	Finish	Metal
Type / Geometry	Hip Roof	Roof Age	20+ Years
Flashing	Sheet metal	Warranties	Unknown
Parapet Copings	None	Roof Drains	Scupper, leaders and downspouts
Fascia	Metal Panel	Insulation	Fiberglass batts
Soffits	Concealed Soffits	Skylights	No
Attics	Steel beams	Ventilation Source-1	Ridge Vents
Roof Condition	Fair	Ventilation Source-2	--

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Drainage components broken/missing		<input type="checkbox"/>	Vegetation/fungal growth		<input type="checkbox"/>
Blocked Drains		<input type="checkbox"/>	Debris		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Degradation Issues			
Observation	Exists At Site	Observation	Exists At Site
Evidence of roof leaks	<input type="checkbox"/>	Significant ponding	<input checked="" type="checkbox"/>
Excessive patching or repairs	<input type="checkbox"/>	Blistering or ridging	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- EPDM roof membrane
- Metal roofing

Actions/Comments:

- The roof finishes were installed over ten years ago. Information regarding roof warranties or bonds was not available. The roofs are maintained by an outside contractor.
- There is no evidence of roof deck or insulation deterioration. The roof substrate and insulation should be inspected during any future roof repair or replacement work.
- Current roof leaks should be repaired as a part of routine maintenance.
- Roof drainage appears to be adequate. Clearing and minor repair of drain system components should be performed regularly as part of the property management’s routine maintenance and operations program
- The attics are not accessible and it could not be determined if there is moisture, water intrusion, or excessive daylight in the attics.



4. Interiors

C10 Interior Construction

C1030 Interior Doors		
Item	Type	Condition
Interior Doors	Metal	Fair
Door Framing	Metal	Fair
Fire Doors	No	--
Closet Doors	Solid core wood	Fair

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Improperly adjusted door closures		<input type="checkbox"/>	Damaged/loose door hardware		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

The following table generally describes the locations and typical conditions of the interior finishes within the facility:

Interior Finishes - SLAUSON MIDDLE SCHOOL

Location	Finishes		Quantity (SF)	Condition	Action	RUL	Est. Cost
Gymnasium	Floor	Wood Strip	13000	Good	Replace	27	175,816
Gymnasium & Mech rooms	Ceiling	Exposed/Generic	4000	Fair	Prep & Paint	5	9,080
Locker rooms	Floor	Terrazzo	2500	Good	Replace	47	30,139
Pool Building	Ceiling	Acoustical Tile (ACT) Dropped Fiberglass	2000	Fair	Replace	12	10,096
Select areas	Floor	Carpet Standard-Commercial Medium-Traffic	38000	Fair	Replace	2	275,739
Throughout	Wall	Concrete/Masonry	380000	Fair	Prep & Paint	3	551,380
Throughout	Floor	Ceramic Tile	38000	Fair	Replace	12	598,690
Throughout	Floor	Vinyl Tile (VCT)	114000	Fair	Replace	3	547,268
Throughout	Ceiling	Acoustical Tile (ACT) Dropped Fiberglass	180000	Fair	Replace	2	1,362,906

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Loose carpeting/flooring		<input type="checkbox"/>	Minor areas of stained ceiling tiles		<input type="checkbox"/>
Minor paint touch-up		<input type="checkbox"/>	Areas of damaged/missing baseboard		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Carpet
- Cermaic tile
- Vinyl tile
- Wood flooring
- Terrazzo
- Interior paint
- Suspended acoustic ceiling tile
- Interior doors
- Bleachers
- Lockers

Actions/Comments:

- It appears that the interior finishes have not been renovated within the last 10 years.
- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

5. Services (MEPF)

See the Mechanical Equipment List in the Appendices for the quantity, manufacturer's name, model number, capacity and year of manufacturer of the major mechanical equipment, if available.

D10 Conveying Systems

D1030 Vertical Conveying (Building Elevators) – Main Building			
Manufacturer	Unknown	Machinery Location	Ground floor or basement adjacent to shaft
Safety Stops	Mechanical	Emergency Communication Equipment	Yes
Cab Floor Finish	Vinyl-tiled	Cab Wall Finish	Plastic-laminated wood
Cab Finish Condition	Fair	Elevator Cabin Lighting	F42T8
Hydraulic Elevators	Two cars at 2,500 LB each		
Overhead Traction Elevators	None		
Freight Elevators	None		
Machinery Condition	Fair	Controls Condition	Fair
Other Conveyances	None	Other Conveyance Condition	NA

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Inspection certificate not available		<input type="checkbox"/>	Inspection certificate expired		<input type="checkbox"/>
Service call needed		<input type="checkbox"/>	Minor cab finish repairs		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Elevator controls
- Elevator machinery
- Elevator cab finishes

Actions/Comments:

- The elevators are serviced by an outside contractor on a routine basis. The elevator machinery and appear to be more than 20 years old.
- The elevators are inspected on an annual basis by the municipality, and a certificate of inspection is on file in the management office.
- The emergency communication equipment in the elevator cabs appears to be functional. Equipment testing is not within the scope of the work.

D20 Plumbing

D2010 Domestic Water Distribution		
Type	Description	Condition
Water Supply Piping	Copper	Good
Water Meter Location	Mechanical Room	

Domestic Water Heaters or Boilers	
Components	Water heater
Fuel	Natural gas
Boiler or Water Heater Condition	Fair
Supplementary Storage Tanks?	Yes
Adequacy of Hot Water	Adequate
Adequacy of Water Pressure	Adequate

D2020 Sanitary Drainage		
Type	Description	Condition
Waste/Sewer Piping	Cast iron	Good
Vent Piping	Cast iron	Good

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Hot water temperature too hot or cold		<input type="checkbox"/>	Minor or isolated leaks		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Plumbing Systems - SLAUSON MIDDLE SCHOOL

Location	Component	Component Description	Quantity	Unit	Condition	Action	RUL	Est. Cost
Boiler room	Water Heater	Gas, Commercial, 60 to 120 GAL	1	EA	Good	Replace	3	10,699
Boiler room	Sump Pump	3 HP	2	EA	Fair	Replace	4	4,126
Throughout	Toilet	Tankless (Water Closet)	70	EA	Fair	Replace	18	59,008
Throughout	Urinal	Vitreous China	12	EA	Fair	Replace	7	14,321
Throughout	Sink	Stainless Steel	6	EA	Fair	Replace	10	6,324
Throughout	Sink	Vitreous China	30	EA	Fair	Replace	7	25,845
Throughout	Drinking Fountain	Refrigerated	20	EA	Fair	Replace	6	25,150

Anticipated Lifecycle Replacements:

- Water heater
- Storage tank
- Toilets
- Urinals



- Sinks
- Showers
- Drinking fountains
- Sump pumps

Actions/Comments:

- The plumbing systems appear to be well maintained and functioning adequately. The water pressure appears to be sufficient. No significant repair actions or short term replacement costs are required. Routine and periodic maintenance is recommended. Future lifecycle replacements of the components or systems listed above will be required.

D30 Building Heating, Ventilating, and Air Conditioning (HVAC)

Building Central Heating System	
Primary Heating System Type	Hot water boilers
Heating Fuel	Natural gas
Location of Major Equipment	Mechanical rooms
Space Served by System	Entire building

Building Central Cooling System	
Primary Cooling System Type	Air-cooled chiller
Refrigerant	R-22
Cooling Towers	None
Location of Major Equipment	Rooftop
Space Served by System	Entire building

Distribution System	
HVAC Water Distribution System	Two-pipe
Air Distribution System	Constant
Location of Air Handlers	Mechanical rooms
Terminal Units	Hydronic wall units
Quantity and Capacity of Terminal Units	Approximately 800 LF of hydronic wall units
Location of Terminal Units	Within interior spaces

Packaged, Split & Individual Units	
Primary Components	Rooftop units
Cooling (if separate from above)	performed via components above
Heating Fuel	None

Packaged, Split & Individual Units	
Location of Equipment	Rooftop
Space Served by System	Throughout

Supplemental/Secondary Components	
Supplemental Component #1	Suspended unit heaters
Location / Space Served by units	BOH Areas
Unit Condition	Fair

Controls and Ventilation	
HVAC Control System	BAS, hybrid pneumatic/electronic system
HVAC Control System Condition	Fair
Building Ventilation	Roof top exhaust fans
Ventilation System Condition	Fair

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Ductwork/grills need cleaned		<input type="checkbox"/>	Minor control adjustments needed		<input type="checkbox"/>
Leaking condensate lines		<input type="checkbox"/>	Poor mechanical area access		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Degradation Issues			
Observation	Exists At Site	Observation	Exists At Site
Heating, Cooling or Ventilation is not adequate	<input type="checkbox"/>	Major system inefficiencies	<input type="checkbox"/>
HVAC controls pneumatic or antiquated	<input type="checkbox"/>	Obsolete refrigerants : R11, R12, R22, R123, R502	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>

Mechanical Systems - SLAUSON MIDDLE SCHOOL

Location	Component	Component Description	Quantity	Unit	Condition	Action	RUL	Est. Cost
Basement Area	Air Handler	Interior, 30,001 to 40,000 CFM	1	EA	Fair	Replace	12	93,685
Boiler Room	Boiler	Gas, 4,201 to 10,000 MBH	1	EA	Fair	Replace	14	332,867
Boiler Room	Boiler	4,201 to 10,000 MBH	1	EA	Fair	Replace	14	332,867
Boiler room	Unit Heater	Hydronic, 13 to 36 MBH	2	EA	Fair	Replace	9	3,034
Main Floor and Gym Areas	Air Handler	Interior, 50,001 to 65,000 CFM	1	EA	Fair	Replace	17	191,166
Multi-purpose Roof	Condenser	Air-Cooled, 5 Ton	1	EA	Fair	Replace	5	4,237
Multi-purpose Roof	Condenser	Air-Cooled, 5 Ton	1	EA	Fair	Replace	2	4,237
Pool Building	Air Handler	Exterior, 10,001 to 16,000 CFM	1	EA	Fair	Replace	5	70,713
Roof	Chiller	Air-Cooled, 61 to 80 Ton	1	EA	Fair	Replace	12	106,642
Roof	Exhaust Fan	Centrifugal, 251 to 800 CFM	20	EA	Fair	Replace	5	40,437
Roof HVAC Room	Distribution Pump	Heating Water, 5 HP	2	EA	Fair	Replace	7	11,038
Second Floor Interior	Air Handler	Exterior, 10,001 to 16,000 CFM	1	EA	Fair	Replace	7	70,713
Throughout	Radiator	Hydronic Baseboard	900	LF	Fair	Replace	39	119,493
Throughout	Air Conditioner	Window/Thru-Wall, 1.5 to 2 Ton	10	EA	Fair	Replace	4	25,885

Anticipated Lifecycle Replacements:

- Boilers
- Chiller
- Air handlers
- Distribution pumps and motors
- Package units
- Suspended hydronic unit heaters
- Hydronic baseboard heaters
- Rooftop exhaust fans

Actions/Comments:

- The HVAC systems are maintained by an outside contractor.
- The HVAC equipment varies in age. HVAC equipment is replaced on an "as needed" basis.
- The HVAC equipment appears to be functioning adequately overall. However, due to the inevitable failure of parts and components over time, some of the equipment will require replacement

D40 Fire Protection

Item	Description			
Type	Partial wet pipe system, with supplementary components			
Sprinkler System	None	<input type="checkbox"/>	Standpipes	<input checked="" type="checkbox"/>
	Hose Cabinets	<input type="checkbox"/>	Fire Pumps	<input type="checkbox"/>
Sprinkler System Condition	Good			
Fire Extinguishers	Last Service Date	Servicing Current?		
	August 2017	Yes		
Hydrant Location	Exterior			
Siamese Location	Exterior			
Special Systems	Kitchen Suppression System	<input checked="" type="checkbox"/>	Computer Room Suppression System	<input type="checkbox"/>



Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Extinguisher tag expired		<input type="checkbox"/>	Riser tag expired (5 year)		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

D50 Electrical

Distribution & Lighting			
Electrical Lines	Underground	Transformer	Pad-mounted
Main Service Size	2.500 Amps	Volts	120/208 Volt, three-phase
Meter & Panel Location	Electrical room	Branch Wiring	Copper
Conduit	Metallic	Step-Down Transformers?	No
Security / Surveillance System?	Yes	Building Intercom System?	Yes
Lighting Fixtures	T-8, CFL, LED		
Main Distribution Condition	Fair		
Secondary Panel and Transformer Condition	Fair		
Lighting Condition	Good		

Building Emergency Systems			
Size	None	Fuel	--
Generator / UPS Serves	--	Tank Location	--
Testing Frequency	--	Tank Type	--
Generator / UPS Condition	--		



Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Improperly stored material		<input type="checkbox"/>	Unsecured high voltage area		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Main distribution panel

Actions/Comments:

- The onsite electrical systems up to the meter are owned and maintained by the respective utility company.
- The electrical service and capacity appear to be adequate for the property's demands.
- The panels and switchboards are mostly 1990-2000 components. The electrical service appears to be adequate for the facility's needs. However, due to the age of the panels and switchboards and increasing difficulty of obtaining replacement parts over time, lifecycle replacements are recommended per above.

D60 Communications

D6060 Public Address Systems						
Item	Description					
Communication Equipment	Public Address System	<input checked="" type="checkbox"/>	Nurse Call System	<input type="checkbox"/>	Clock	<input checked="" type="checkbox"/>

D70 Electronic Safety and Security

D7010 Access Control and Intrusion Detection / D7050 Detection and Alarm						
Item	Description					
Access Control and Intrusion Detection	Exterior Camera	<input checked="" type="checkbox"/>	Interior Camera	<input checked="" type="checkbox"/>	Front Door Camera Only	<input type="checkbox"/>
	Cameras Monitored	<input checked="" type="checkbox"/>	Security Personnel On-Site	<input type="checkbox"/>	Intercom/Door Buzzer	<input checked="" type="checkbox"/>
Fire Alarm System	Central Alarm Panel	<input checked="" type="checkbox"/>	Battery-Operated Smoke Detectors	<input type="checkbox"/>	Alarm Horns	<input checked="" type="checkbox"/>
	Annunciator Panels	<input type="checkbox"/>	Hard-Wired Smoke Detectors	<input checked="" type="checkbox"/>	Strobe Light Alarms	<input checked="" type="checkbox"/>
	Pull Stations	<input checked="" type="checkbox"/>	Emergency Battery-Pack Lighting	<input type="checkbox"/>	Illuminated EXIT Signs	<input checked="" type="checkbox"/>



D7010 Access Control and Intrusion Detection / D7050 Detection and Alarm		
Item	Description	
Fire Alarm System Condition	Fair	
Central Alarm Panel System	Location of Alarm Panel	Installation Date of Alarm Panel
	Main Office	2000

Anticipated Lifecycle Replacements:

- Central alarm panel
- Alarm devices and system

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

6. Equipment & Furnishings

E10 Equipment

The cafeteria area has a variety of commercial kitchen appliances, fixtures, and equipment. The equipment is owned and maintained in-house.

The cafeteria kitchen includes the following major appliances, fixtures, and equipment:

E1030 Commercial Kitchen Equipment		
Appliance	Comment	Condition
Refrigerators	Reach-in	Fair
Freezers	Walk-in	Fair
Ranges	<input type="checkbox"/>	--
Ovens	Gas	Fair
Griddles / Grills	<input checked="" type="checkbox"/>	Fair
Fryers	<input type="checkbox"/>	--
Hood	<input checked="" type="checkbox"/>	Fair
Dishwasher	<input checked="" type="checkbox"/>	Fair
Microwave	<input checked="" type="checkbox"/>	Good
Ice Machines	<input checked="" type="checkbox"/>	Fair
Steam Tables	<input checked="" type="checkbox"/>	Fair

E1030 Commercial Laundry		
Equipment	Comment	Condition
Commercial Washing Machines	<input type="checkbox"/>	--
Commercial Dryers	<input type="checkbox"/>	--
Residential Washers	<input checked="" type="checkbox"/>	Fair
Residential Dryers	<input checked="" type="checkbox"/>	Fair

E1050 Pool Equipment		
Equipment	Comment	Condition
Pump	Yes	Fair
Filters	Yes	Good

Anticipated Lifecycle Replacements:

- Oven
- Reach-in cooler
- Walk-in freezer
- Grill
- Hood
- Steam tables
- Ice machine
- Dishwasher
- Pool pump
- Pool filter
- Scoreboard

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

7. Sitework

G20 Site Improvements

G2020 Parking Lots & G2030 Pedestrian Walkways		
Item	Material	Condition
Entrance Driveway Apron	Asphalt	Fair
Parking Lot	Asphalt	Fair
Drive Aisles	Asphalt	Fair
Service Aisles	None	--
Sidewalks	Concrete	Good
Curbs	Concrete	Good
Pedestrian Ramps	Cast-in-place concrete	Good
Ground Floor Patio or Terrace	Concrete	Fair

Parking Count				
Open Lot	Carport	Private Garage	Subterranean Garage	Freestanding Parking Structure
70	--	--	--	--
Total Number of ADA Compliant Spaces			2	
Number of ADA Compliant Spaces for Vans			2	
Total Parking Spaces			70	

Site Stairs			
Location	Material	Handrails	Condition
Entrance walkway	Concrete stairs	Metal	Fair
Rear exterior	Concrete stairs	Metal	Fair
Rear walkway	Concrete stairs	Metal	Fair

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Pavement oil stains		<input type="checkbox"/>	Vegetation growth in joints		<input type="checkbox"/>

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Stair/ramp rails loose		<input type="checkbox"/>	Stair/ramp rail needs scraped and painted		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Degradation Issues			
Observation	Exists At Site	Observation	Exists At Site
Potholes/depressions	<input type="checkbox"/>	Alligator cracking	<input checked="" type="checkbox"/>
Concrete spalling	<input type="checkbox"/>	Trip hazards (settlement/heaving)	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Asphalt seal coating
- Asphalt pavement
- Sidewalks
- Site stairs and handrails
- Pedestrian ramps

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended. Future lifecycle replacements of the components listed above will be required.

G2060 Site Development	
Property Signage	
Property Signage	Monument
Street Address Displayed?	Yes

Site Fencing		
Type	Location	Condition
Chain link with metal posts	Softball field	Fair

Refuse Disposal	
Refuse Disposal	Common area dumpsters



Refuse Disposal				
Dumpster Locations	Mounting	Enclosure	Contracted?	Condition
Rear exterior	Concrete pad	Chain link fence	Yes	Good

Other Site Amenities			
	Description	Location	Condition
Playground Equipment	None	--	--
Tennis Courts	Asphalt	Rear Exterior	Fair
Basketball Court	Asphalt	Rear Exterior	Fair
Swimming Pool	Yes	Interior	Fair

Anticipated Lifecycle Replacements:

- Signage
- Site fencing
- Court surfaces
- Flagpole

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended.

G2080 Landscaping		
Drainage System and Erosion Control		
System	Exists At Site	Condition
Surface Flow	<input checked="" type="checkbox"/>	Good
Inlets	<input checked="" type="checkbox"/>	Good
Swales	<input type="checkbox"/>	--
Detention pond	<input type="checkbox"/>	--
Lagoons	<input type="checkbox"/>	--
Ponds	<input type="checkbox"/>	--
Underground Piping	<input checked="" type="checkbox"/>	Good
Pits	<input type="checkbox"/>	--
Municipal System	<input checked="" type="checkbox"/>	Good
Dry Well	<input type="checkbox"/>	--

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- There is no evidence of storm water runoff from adjacent properties. The storm water system appears to provide adequate runoff capacity. There is no evidence of major ponding or erosion.

Item	Description						
Site Topography	Slopes gently down from the north side of the property to the south property line.						
Landscaping	Trees	Grass	Flower Beds	Planters	Drought Tolerant Plants	Decorative Stone	None
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landscaping Condition	Good						
Irrigation	Automatic Underground		Drip		Hand Watering		None
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>
Irrigation Condition	--						

Retaining Walls		
Type	Location	Condition
None	--	--

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- The topography and adjacent uses do not appear to present conditions detrimental to the property. There are no significant areas of erosion.

G30 Liquid & Gas Site Utilities

G3060 Site Fuel Distribution	
Item	Description
Natural Gas	Gas service is supplied from the gas main on the adjacent public street. The gas meters and regulators are located in the mechanical room. The gas distribution piping within the building is malleable steel (black iron).

Anticipated Lifecycle Replacements:

- No components of significance

Actions/Comments:

- The pressure and quantity of gas appear to be adequate.
- The gas meters and regulators appear to be functioning adequately and will require routine maintenance.
- Only limited observation of the gas distribution piping can be made due to hidden conditions.

G40 Electrical Site Improvements

G4050 Site Lighting					
Site Lighting	None	Pole Mounted	Bollard Lights	Ground Mounted	Parking Lot Pole Type
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Good				
Building Lighting	None		Wall Mounted	Recessed Soffit	
	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	Good				

Maintenance Issues					
Observation	Location	Exists At Site	Observation	Location	Exists At Site
Isolated bulb/lamp replacement		<input type="checkbox"/>	Discolored/dirty lens cover		<input type="checkbox"/>
Other		<input type="checkbox"/>	Other		<input type="checkbox"/>

Anticipated Lifecycle Replacements:

- Exterior lighting

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended.



8. Ancillary Structures

Other Ancillary Structures			
Type	Maintenance/Storage Shed	Location	Parking Lot
Item	Material	Item	Material
Exterior Siding	Concrete	Roof Finishes	Concrete
Interior Finishes	Floor : Unknown, no access Ceiling : Unknown, no access Walls : Unknown, no access	MEPF	See Tables in Section 5
Overall Building Condition			Good

Anticipated Lifecycle Replacements:

- No components of significance.

Actions/Comments:

- No significant actions are identified at the present time. On-going periodic maintenance is highly recommended.

9. Opinions of Probable Costs

Cost estimates are attached at the front of this report (following the cover page).

These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as *R.S. Means* and *Marshall & Swift*, EMG's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing of the work (if applicable), quality of contractor, quality of project management exercised, market conditions, and whether competitive pricing is solicited, etc. ASTM E2018-08 recognizes that certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA.

9.1 Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, EMG opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised, etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its effective age. Projections of Remaining Useful Life (RUL) are based on continued use of the Property similar to the reported past use. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be derived from an actual take-off, lump sum costs or allowances are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct and manage the corrections.

9.2 Immediate Repairs

Immediate repairs are opinions of probable costs that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) material building or fire code violations, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

9.3 Replacement Reserves

Replacement Reserves are for recurring probable expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

Replacement Reserves exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for, are also excluded.

Replacement costs are solicited from ownership/property management, EMG's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

EMG's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning system's or component's respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined in the Immediate Repair Cost Estimate

10. Purpose and Scope

10.1 Purpose

EMG was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record at municipal offices, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives.

CONDITIONS:

The physical condition of building systems and related components are typically defined as being in one of five conditions: Excellent, Good, Fair, Poor, Failed or a combination thereof. For the purposes of this report, the following definitions are used:

Excellent	=	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	=	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	=	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	=	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	=	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	=	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.

FORMAT OF THE BODY OF THE REPORT:

Throughout sections 5 through 9 of this report, each report section will typically contain three subsections organized in the following sequence:

- A descriptive table (and/or narrative), which identifies the components assessed, their condition, and other key data points.
- A simple bulleted list of Anticipated Lifecycle Replacements, which lists components and assets typically in Excellent, Good, or Fair condition at the time of the assessment but that will require replacement or some other attention once aged past their estimated useful life. These listed components are typically included in the associated inventory database with costs identified and budgeted beyond the first several years.
- A bulleted cluster of Actions/Comments, which include more detailed narratives describing deficiencies, recommended repairs, and short term replacements. The assets and components associated with these bullets are/were typically problematic and in Poor or Failed condition at the time of the assessment, with corresponding costs included within the first few years.

PLAN TYPES:

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the “why” part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the “best” fit, typically the one with the greatest significance. The following Plan Types are listed in general weighted order of importance:

Safety	=	An observed or reported unsafe condition that if left unaddressed could result in an injury; a system or component that presents a potential liability risk.
Performance/Integrity	=	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses a risk to overall system stability.
Accessibility	=	Does not meet ADA, UFAS, and/or other handicap accessibility requirements.
Environmental	=	Improvements to air or water quality, including removal of hazardous materials from the building or site.
Modernization/Adaptation	=	Conditions, systems, or spaces that need to be upgraded in appearance or function to meet current standards, facility usage, or client/occupant needs.
Lifecycle/Renewal	=	Any component or system in which future repair or replacement is anticipated beyond the next several years and/or is of minimal substantial early-term consequence.

10.2 Scope

The standard scope of the Facility Condition Assessment includes the following:

- Visit the Property to evaluate the general condition of the building and site improvements, review available construction documents in order to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety, mechanical, electrical, and plumbing systems, and the general built environment.
- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include the review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a general statement of the subject Property’s compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey, but will help identify exposure to issues and the need for further review.
- Perform a limited assessment of accessible areas of the building(s) for the presence of fungal growth, conditions conducive to fungal growth, and/or evidence of moisture. EMG will also interview Project personnel regarding the presence of any known or suspected fungal growth, elevated relative humidity, water intrusion, or mildew-like odors. Potentially affected areas will be photographed. Sampling will not be considered in routine assessments.
- List the current utility service providers.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, in order to gain a clear understanding of the property’s overall condition. Other areas to be observed include the exterior of the property, the roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report.
- Prepare a mechanical inventory list.

11. Accessibility and Property Research

11.1 ADA Accessibility

Generally, Title III of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of “areas of public accommodations” and “commercial facilities” on the basis of disability. Regardless of its age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

Buildings completed and occupied after January 26, 1992 are required to comply fully with the ADAAG. Existing facilities constructed prior to this date are held to the lesser standard of compliance to the extent allowed by structural feasibility and the financial resources available. As an alternative, a reasonable accommodation pertaining to the deficiency must be made.

During the FCA, a limited visual observation for ADA accessibility compliance was conducted. The scope of the visual observation was limited to those areas set forth in *EMG’s Abbreviated Accessibility Table* below. It is understood by the Client that the limited observations described herein does not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of EMG’s undertaking. Only a representative sample of areas was observed and actual measurements were not taken to verify compliance.

The facility generally appears to be accessible as stated within the defined priorities of Title III of the Americans with Disabilities Act.

Accessibility Issues			
Component	Major Issue (ADA Study Recommended)	Moderate Issue (ADA Study Recommended)	Minor Issue
Parking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exterior Accessible Route	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interior Accessible Route	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Restrooms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Elevators	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A full ADA Compliance Survey may reveal aspects of the property that are not in compliance.

Corrections of these conditions should be addressed from a liability standpoint, but are not necessarily code violations. The Americans with Disabilities Act Accessibility Guidelines concern civil rights issues as they pertain to the disabled and are not a construction code, although many local jurisdictions have adopted the Guidelines as such.

12. Certification

Ann Arbor Public Schools retained EMG to perform this Facility Condition Assessment in connection with its continued operation of Slauson Middle School, 1019 West Washington, Ann Arbor, Michigan, the "Property". It is our understanding that the primary interest of Ann Arbor Public Schools is to locate and evaluate materials and building system defects that might significantly affect the value of the property and to determine if the present Property has conditions that will have a significant impact on its continued operations.

The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling or operating of equipment or in depth studies were performed unless specifically required under Section 2 of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas were observed (See Section 4.2 for areas observed). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared on behalf of and exclusively for the use of the client for the purpose stated within Section **Error! Reference source not found.** of this report. The report, or any excerpt thereof, shall not be used by any party other than the client or for any other purpose than that specifically stated in our agreement or within Section 10 of this report without the express written consent of EMG.

Any reuse or distribution of this report without such consent shall be at Ann Arbor Public Schools and the recipient's sole risk, without liability to EMG.

Prepared by: Sean Luxem,
Project Manager

Reviewed by:



Al Diefert
Technical Report Reviewer
For
Andrew Hupp
Program Manager

13. Appendices

- Appendix A: Photographic Record
- Appendix B: Site Plan
- Appendix C: Supporting Documentation
- Appendix D: Pre-Survey Questionnaire

Appendix A: Photographic Record



PHOTO #1: FRONT ELEVATION



PHOTO #2: SIDE ELEVATION



PHOTO #3: SIDE ELEVATION



PHOTO #4: REAR ELEVATION



PHOTO #5: MAIN ENTRANCE DOORS



PHOTO #6: PROPERTY SIGNAGE



PHOTO #7: CONCRETE SIDEWALKS AND ASPHALT PAVEMENT



PHOTO #8: ADA PARKING AREA



PHOTO #9: SPORTS FIELDS



PHOTO #10: BASKETBALL COURT



PHOTO #11: CHAIN LINK PERIMETER FENCING



PHOTO #12: CONCRETE STAIRS



PHOTO #13: SINGLE-PLY ROOFING



PHOTO #14: ROOFTOP UNIT



PHOTO #15: HVAC BOILER



PHOTO #16: CIRCULATION PUMPS



PHOTO #17: HYDRONIC TERMINAL UNIT



PHOTO #18: CLASSROOM UNIT VENTILATOR



PHOTO #19: SUSPENDED UNIT HEATERS



PHOTO #20: AIR HANDLER



PHOTO #21: DOMESTIC WATER HEATER



PHOTO #22: MAIN DISTRIBUTION PANEL



PHOTO #23: FIRE PANEL



PHOTO #24: KITCHEN EQUIPMENT



PHOTO #25: LOBBY



PHOTO #26: MAIN OFFICE



PHOTO #27: CONFERENCE ROOM



PHOTO #28: CLASSROOM



PHOTO #29: MEDIA CENTER



PHOTO #30: MULTI-PURPOSE ROOM



PHOTO #31: HALLWAY AND LOCKERS



PHOTO #32: GYMNASIUM



PHOTO #33: AUDITORIUM



PHOTO #34: POOL



PHOTO #35: RESTROOM STALL



PHOTO #36: RESTROOM SINKS

Appendix B: Site Plan

Site Plan



Project Name:
Slauson Middle School

Project Number:
129010.18R000-028.354

Source:
Google Earth

On-Site Date:
February 27-28, 2018

Appendix C: Supporting Documentation

Appendix D: Pre-Survey Questionnaire

EMG FACILITY CONDITION ASSESSMENT: PRE-SURVEY QUESTIONNAIRE

Building / Facility Name: Slauson Middle School
Name of person completing form: Sean Luxem
Title / Association with property: NA
Length of time associated w/ property: NA
Date Completed: February 27, 2018
Phone Number: 269.861.4786

Directions: Please answer all questions to the best of your knowledge and in good faith. Please provide additional details in the Comments column, or backup documentation for any **Yes** responses.

DATA OVERVIEW		RESPONSE			
1	Year/s constructed	1937			
2	Building size in SF	190,090 SF			
3	Major Renovation Dates	Façade	2000	HVAC	2010
		Roof	2010	Electrical	2000
		Interiors	2000	Site Pavement	2000
		Accessibility	2010	other	
QUESTION		RESPONSE			
4	Provide additional detail about the scope of the MAJOR additions, renovations, or systemic rehabilitations since construction (referenced above in Question 3).	Roof replacement, HVAC upgrades			
5	List other significant but somewhat lesser capital improvements, focusing on recent years (provide approximate year completed).	Exterior lighting			
6	List any major capital expenditures planned/requested for the next few years. Have they been budgeted?	Unknown			
7	Describe any on-going extremely problematic, historically chronic, or immediate facility needs.	Unknown			

Mark the column corresponding to the appropriate response. Please provide additional details in the Comments column, or backup documentation for any **Yes** responses. (**NA** indicates "Not Applicable", **Unk** indicates "Unknown")

QUESTION		RESPONSE				COMMENTS
		Yes	No	Unk	NA	
8	Are there any problems with foundations or structures, like excessive settlement?		X			
9	Has any part of the facility ever contained visible suspect mold growth, or have there been any indoor air quality or mold related complaints from occupants?		X			
10	Are there any wall, window, basement or roof leaks?		X			
11	Are there any plumbing leaks, water pressure, or clogging/back-up problems?		X			
12	Have there been any leaks or pressure problems with natural gas, HVAC supply/return lines, or steam service?		X			
13	Are any areas of the facility inadequately heated, cooled or ventilated? Any poorly insulated areas?		X			
14	Is the electrical service outdated, undersized, or otherwise problematic?		X			
15	Are there any problems or inadequacies with exterior building-mounted lighting?		X			
16	Is site/parking drainage inadequate, with excessive ponding or other problems?		X			
17	Are there any other unresolved construction defects or significant issues/hazards at the property that have not yet been identified above?		X			
18	ADA: Has an accessibility study been performed at the site? If so, indicate when.			X		
19	ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?	X				In full.
20	ADA: Have there been regular complaints about accessibility issues, or associated previous or pending litigation?		X			

On the day of the site visit, provide EMG's Field Observer access to all of the available documents listed below. Provide copies if possible.

INFORMATION REQUIRED

1. All available construction documents (blueprints) for the original construction of the building or for any tenant improvement work or other recent construction work.
2. A site plan, preferably 8 1/2" X 11", which depicts the arrangement of buildings, roads, parking stalls, and other site features.
3. For commercial properties, provide a tenant list which identifies the names of each tenant, vacant tenant units, the floor area of each tenant space, and the gross and net leasable area of the building(s).
4. For apartment properties, provide a summary of the apartment unit types and apartment unit type quantities, including the floor area of each apartment unit as measured in square feet.
5. For hotel or nursing home properties, provide a summary of the room types and room type quantities.
6. Copies of Certificates of Occupancy, building permits, fire or health department inspection reports, elevator inspection certificates, roof or HVAC warranties, or any other similar, relevant documents.
7. The names of the local utility companies which serve the property, including the water, sewer, electric, gas, and phone companies.

8. The company name, phone number, and contact person of all outside vendors who serve the property, such as mechanical contractors, roof contractors, fire sprinkler or fire extinguisher testing contractors, and elevator contractors.
9. A summary of recent (over the last 5 years) capital improvement work which describes the scope of the work and the estimated cost of the improvements. Executed contracts or proposals for improvements. Historical costs for repairs, improvements, and replacements.
10. Records of system & material ages (roof, MEP, paving, finishes, furnishings).
11. Any brochures or marketing information.
12. Appraisal, either current or previously prepared.
13. Current occupancy percentage and typical turnover rate records (for commercial and apartment properties).
14. Previous reports pertaining to the physical condition of property.
15. ADA survey and status of improvements implemented.
16. Current / pending litigation related to property condition.

Your timely compliance with this request is greatly appreciated.

