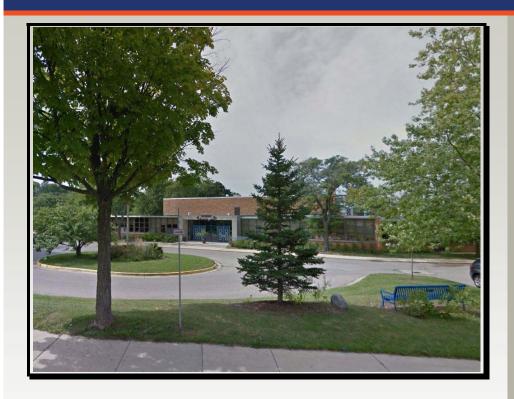
## **FACILITY CONDITION ASSESSMENT**

## Prepared for

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



#### FACILITY CONDITION ASSESSMENT

OF

PATTENGILL ELEMENTARY 2100 CRESTLAND DRIVE ANN ARBOR, MICHIGAN 48104

#### PREPARED BY:

MG

10461 Mill Run Circle, Suite 1100 Owings Mills, Maryland 21117 800.733.0660 www.EMGcorp.com

#### **EMG CONTACT:**

Andrew Hupp Program Manager 800.733.0660 x6632 ahupp @emgcorp.cor

EMG PROJECT #: 129010.18R000-020.354

DATE OF REPORT: July 2, 2018

ONSITE DATE: January 31, 2018

# Immediate Repairs Report Pattengill Elementary

## 7/2/2018



Location Name	EMG Renamed Item Number	ID	Cost Description	Quantity	Unit	Unit Cost *		Deficiency Repair Estimate *
Pattengill Elementary	D30	885577	Air Conditioning, Central, Install	52000	SF	\$11.50	\$598,000	\$598,000
Pattengill Elementary	B2020	834696	Window, Aluminum Double-Glazed 12 SF, 1-2 Stories, Replace	1	EA	\$584.21	\$584	\$584
Pattengill Elementary	B2050	834706	Exterior Door, Steel, Replace	16	EA	\$1,092.64	\$17,482	\$17,482
Pattengill Elementary	/ B30	845756	Roof, Modified Bituminous, Replace	37500	SF	\$10.35	\$387,978	\$387,978
Pattengill Elementary	C2010	834698	Interior Wall Finish, Gypsum Board/Plaster, Repair	200	SF	\$3.18	\$636	\$636
Pattengill Elementary	/ A10	834681	Interior Wall Finish, Concrete, Repair	77000	SF	\$34.78	\$2,678,443	\$2,678,443
Pattengill Elementary	C2050	834695	Interior Ceiling Finish, Gypsum Board/Plaster, Repair	1000	SF	\$8.42	\$8,417	\$8,417
Pattengill Elementary	C2050	834738	Interior Ceiling Finish, Suspended Acoustical Tile (ACT), Replace	2500	SF	\$3.58	\$8,944	\$8,944
Pattengill Elementary	/ D20	834679	Backflow Preventer, 2 Inch, Replace	1	EA	\$2,993.64	\$2,994	\$2,994
Pattengill Elementary	/ D30	834677	Building Automation System (HVAC Controls), , Upgrade	52000	SF	\$6.17	\$320,678	\$320,678
Pattengill Elementary	D70	834739	Fire Alarm Control Panel, Addressable, Replace	1	EA	\$23,342.23	\$23,342	\$23,342
Pattengill Elementary	D70	834702	Security/Surveillance System, Cameras and CCTV, Upgrade	52000	SF	\$5.00	\$259,963	\$259,963
Pattengill Elementary	D70	834742	Defibrillator, Cabinet Mounted, Replace	1	EA	\$1,620.93	\$1,621	\$1,621
Pattengill Elementary	/	958697	Davis Bacon Prevailing Wages, Surcharge for Prevailing Wages, 10% surcharge for prevailing wages	55445.46	LS	\$1.15	\$63,762	\$63,762
Pattengill Elementary	G2080	845760	Landscaping, Mature Tree, Remove/Trim	15	EA	\$1,425.66	\$21,385	\$21,385
Pattengill Elementary	/ A10	834719	Engineer, Structural, Superstructure, , Evaluate/Report	1	EA	\$11,500.00	\$11,500	\$11,500
Immediate Repairs	Total	'				1		\$4,405,729

Location Factor included in totals.

#### Pattengill Elementary



#### 7/2/2018

Location	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	Total Escalated Estimate
Pattengill Elementary	\$4,405,729	\$175,792	\$1,008,663	\$714,211	\$1,878,866	\$75,797	\$267,686	\$78,420	\$551,784	\$1,053,034	\$679,232	\$215,181	\$103,946	\$321,236	\$119,971	\$190,412	\$151,445	\$365,975	\$290,284	\$613,630	\$13,261,296
GrandTotal	\$4,405,729	\$175,792	\$1,008,663	\$714,211	\$1,878,866	\$75,797	\$267,686	\$78,420	\$551,784	\$1,053,034	\$679,232	\$215,181	\$103,946	\$321,236	\$119,971	\$190,412	\$151,445	\$365,975	\$290,284	\$613,630	\$13,261,296

GrandTotal		\$4,405,729	\$175,792	\$1,008,663	\$714,211	\$1,878	3,866	\$75,7	97	\$267,68	\$78,	420	\$551,784	\$1	,053,034	\$679,232	\$21	5,181	\$103,	,946	\$321,236	\$1	19,971 \$	190,412	\$151,4	145	\$365,975	\$290	,284	\$613,63	30		\$13,261,296
EMG																																	
Renamed ID	Cost Description					Lifespan (FIII.)	Age	RUL (	Quantity	Unit	Unit Cost V	/ Markup	Subtotal	20	18 2019	2020	2021	2022	2023	2024	2025	2026	2027 20	28 202	9 203	0 203	1 2032	2033	2034	2035	2036	2037RRR_RowGra	andTotalLabel
Item Number						(EUL)					_																						
D30 88557	7 Air Conditioning, Centra	al, Install				50	50	0	52000	SF	\$10.00	\$11.50	\$598,000	\$598,00	00																		\$598,000
B20 86581	2 Exterior Wall, Brick or E	Brick Veneer, 1-2 Stor	ries, Repoint			25	16	9	15000	SF	\$41.28	\$47.47	\$712,125									\$	712,125										\$712,125
B2020 83469	6 Window, Aluminum Do	uble-Glazed 12 SF, 1-	-2 Stories, Replace	•		30	30	0	1	EA	\$584.21	\$584.21	\$584	\$58	34																		\$584
B2020 86673	9 Window, Aluminum Do	uble-Glazed 12 SF, 1-	-2 Stories, Replace	•		30	20	10	185	EA	\$584.21	\$671.84	\$124,290										\$124,2	90									\$124,290
B2050 83470	6 Exterior Door, Steel, Re	eplace				25	27	0	16	EA	\$950.12	\$1,092.64	\$17,482	\$17,48	32																		\$17,482
B30 84575	6 Roof, Modified Bitumin	ous, Replace				20	27	0	37500	SF	\$9.00	\$10.35	\$387,978	\$387,97	78																		\$387,978
B30 84575	7 Roof, Single-Ply EPDM	Membrane, Replace	1			20	18	2	14500	SF	\$10.52	\$12.10	\$175,421			\$175,421																	\$175,421
C10 83469	3 Interior Door, Wood So	lid-Core w/ Safety Gla	ass, Replace			20	18	2	30	EA	\$1,928.03	\$2,217.23	\$66,517			\$66,517																	\$66,517
C10 83473	4 Interior Door, Wood So	lid-Core, Replace				20	18	2	25	EA	\$1,423.11	\$1,636.58	\$40,915			\$40,915																	\$40,915
94708	0 Exterior Door Hardware	e, Electronic Door Loc	cks ANSI F39 Lock	set, Replace		30	29	1	8	EA	\$1,345.00	\$1,546.75	\$12,374		\$12,374																		\$12,374
C10 83468	6 Toilet Partitions, Metal	Overhead-Braced, Re	eplace			20	17	3	10	EA	\$850.00	\$977.50	\$9,775				\$9,775																\$9,775
B1080 83472	2 Interior Stair/Ramp Rai	ls, Metal, Refinish				5	4	1	80	LF	\$1.44	\$1.44	\$115		\$115					\$115				\$11	5				\$115				\$461
C2010 83469	8 Interior Wall Finish, Gy	psum Board/Plaster, I	Repair			0	27	0	200	SF	\$3.18	\$3.18	\$636	\$63	36																		\$636
A10 83468	1 Interior Wall Finish, Co	ncrete, Repair				0	27	0	77000	SF	\$30.25	\$34.78	\$2,678,443	\$2,678,44	13																		\$2,678,443
C2010 83467	3 Interior Wall Finish, Co	ncrete/Masonry, Prep	& Paint			8	5	3	9600	SF	\$1.45	\$1.67	\$16,019				\$16,019							\$16,01	9							\$16,019	\$48,057
C2010 83471	5 Interior Wall Finish, Co	ncrete/Masonry, Prep	& Paint			8	5	3	9600	SF	\$1.45	\$1.67	\$16,019				\$16,019							\$16,01	9							\$16,019	\$48,057
C2010 83470	5 Interior Wall Finish, Ce	ramic Tile, Replace				25	22	3	8000	SF	\$16.55	\$19.04	\$152,297			\$	152,297																\$152,297
C2030 83473	2 Interior Floor Finish, Vi	nyl Tile (VCT), Replac	ce			15	13	2	24000	SF	\$4.80	\$5.52	\$132,497			\$132,497													\$	132,497			\$264,993
C2030 83469	2 Interior Floor Finish, W	ood Strip, Sand & Re	finish			10	7	3	1000	SF	\$3.68	\$4.23	\$4,229				\$4,229									\$4,229							\$8,458
C2030 83472	8 Interior Floor Finish, Ca	arpet Standard-Comm	nercial Medium-Tra	ffic, Replace		10	7	3	12000	SF	\$7.26	\$8.34	\$100,137			\$	100,137									\$100,137							\$200,274
C2050 83469	5 Interior Ceiling Finish, 0	Gypsum Board/Plaste	er, Repair			0	27	0	1000	SF	\$7.32	\$8.42	\$8,417	\$8,41	17																		\$8,417
C2050 83473	8 Interior Ceiling Finish,	Suspended Acoustica	I Tile (ACT), Repla	ce		20	27	0	2500	SF	\$3.11	\$3.58	\$8,944	\$8,94	14																		\$8,944
C2050 83468	7 Interior Ceiling Finish,	Suspended Acoustica	I Tile (ACT), Repla	ce		20	18	2	36500	SF	\$3.11	\$3.58	\$130,584			\$130,584																	\$130,584
D20 83469	9 Toilet, Tankless (Water	Closet), Replace				20	18	2	32	EA	\$842.97	\$969.41	\$31,021			\$31,021																	\$31,021
D20 83468	9 Urinal, Vitreous China,	Replace				20	18	2	2	EA	\$1,193.44	\$1,372.46	\$2,745			\$2,745																	\$2,745
D20 83468	0 Lavatory, Vitreous Chin	na, Replace				20	18	2	35	EA	\$572.66	\$658.56	\$23,049			\$23,049																	\$23,049
D20 83472	5 Sink, Stainless Steel, F	Replace				20	17	3	25	EA	\$1,054.05	\$1,212.16	\$30,304				\$30,304																\$30,304
D20 83474	4 Sink, Porcelain Ename	I, Cast Iron, Replace				20	17	3	1	EA	\$1,167.28	\$1,342.38	\$1,342				\$1,342																\$1,342
D20 83470	1 Sink, Pot, Multi-compar	rtment, Replace				30	27	3	22	LF	\$1,262.50	\$1,451.88	\$31,941				\$31,941																\$31,941
	7 Service Sink, Floor, Re					35	18	17	4	EA	\$1,599.51	\$1,839.44	\$7,358																	\$7,358			\$7,358
D20 83473	5 Drinking Fountain, Refr	rigerated, Replace				10	7	3	3	EA	\$1,257.51	\$1,446.13	\$4,338				\$4,338									\$4,338	3						\$8,677
D20 83467	9 Backflow Preventer, 2 I	Inch, Replace				15	15	0	1	EA	\$2,603.17	\$2,993.64	\$2,994	\$2,99	94													\$2,994					\$5,987
D20 83468	4 Water Heater, Gas, Co	mmercial, 74 GAL, Re	eplace			15	5	10	1	EA	\$10,698.82	\$12,303.64	\$12,304										\$12,3	04									\$12,304
D20 83472	3 Sump Pump, 3 HP, Rep	place				15	12	3	1	EA	\$2,062.81	\$2,372.23	\$2,372				\$2,372														\$2,372		\$4,744
D30 83473	1 Air Compressor, 2 HP,	Replace				20	5	15	1	EA	\$6,611.73	\$7,603.48	\$7,603															\$7,603					\$7,603
96079	8 Solar Instillation Projec	t, Roof Mounted Sola	ır Instillation, Install			20	12	8	315000	SF	\$1.00	\$1.15	\$362,250								\$362	2,250											\$362,250
	4 Boiler, Gas, 1,001 to 2,					25	19	6	1	EA	\$46,465.41	\$53,435.22	\$53,435							\$53,435													\$53,435
D30 83472	9 Boiler, Gas, 1,001 to 2,	000 MBH, Replace				25	19	6	1	EA	\$46,465.41	\$53,435.22	\$53,435							\$53,435													\$53,435
D30 83471	6 Boiler, Gas, 1,001 to 2,	000 MBH, Replace				25	19	6	1	EA	\$46,465.41	\$53,435.22	\$53,435							\$53,435													\$53,435
	6 Ductless Split System,					15	13	2	1	EA	\$4,473.11					\$5,144														\$5,144			\$10,288
	2 Unit Ventilator, 300 to 7		on), Replace			15	11	4	30	EA	\$6,749.60						9	3232,861														\$232,861	\$465,722
	5 Air Handler, Exterior, 6					15	5	10	1		\$37,802.95							*					\$43,4	73									\$43,473
	6 Exhaust Fan, Centrifug					15	12	3	30	EA	\$2,664.18						\$91,914						, .,								\$91,914		\$183,828
	5 Distribution Pump, Hea					20	17	3	1	EA	\$5,518.88						\$6,347																\$6,347
	8 Distribution Pump, Hea					20	17	3	1	EA	\$5,518.88						\$6,347																\$6,347
	5 Air Conditioner, Window					10	9	1	20	EA	\$2,588.52				\$59,536									\$59,53	6								\$119,072
	3 Cabinet Heater, , Repla		• •			20	18	2	13		\$3,179.94					\$47,540																	\$47,540

	EMG Renamed Item		Lifespan (EUL)	Age	RUL	Quantity	Unit	Unit Cost	w/ Markup *	Subtotal	2018 2019	2020	2021	2022	2023 2024	4 2025 2026	2027	2028 2	2029 2030	2031 2032	2033 2034	2035 2036	2037RRR_I	RowGrandTotalLabel
Mathematical Control	Number																							
1	D30	834700 Cabinet Heater, , Replace	20	17	3	2	EA	\$3,179.9	4 \$3,656.93	\$7,314			\$7,314											\$7,314
	D30	Building Automation System (HVAC Controls), , Upgrade	20	27	0	52000	SF	\$5.3	6 \$6.17	\$320,678	\$320,678													\$320,678
5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	D40	Sprinkler System, Full Retrofit, School (per SF), Renovate	50	46	4	52000	SF	\$6.2	5 \$7.19	\$373,959				\$373,959										\$373,959
14   15   15   15   15   15   15   15	D40	Fire Extinguisher, , Replace	15	1	14	6	EA	\$356.5	4 \$410.02	\$2,460										\$2,460				\$2,460
14   15   15   15   15   15   15   15	D50	Distribution Panel, 208 Y, 120 V, 225 Amp, Replace	30	27	3	1	EA	\$7,951.0	0 \$9,143.6	\$9,144			\$9,144											\$9,144
	D50	834718 Switchboard, 1,200 AMP, Replace	30	27	3	1	EA	\$26,391.6	7 \$30,350.42	\$30,350			\$30,350											\$30,350
14   15   15   15   15   15   15   15	D50	B34676 Distribution Panel, 208 Y, 120 V, 600 Amp, Replace	30	27	3	1	EA	\$9,487.8	5 \$10,911.03	\$10,911			\$10,911											\$10,911
	D50	B34703 Distribution Panel, 208 Y, 120 V, 100 Amp, Replace	30	26	4	1	EA	\$5,079.9	3 \$5,841.92	\$5,842				\$5,842										\$5,842
14   15   15   15   15   15   15   15	D50	B34740 Distribution Panel, 208 Y, 120 V, 250 Amp, Replace	30	18	12	1	EA	\$7,951.0	0 \$9,143.6	\$9,144									\$9,144					\$9,144
1	G40	861063 Flood Light, Exterior lighting, Replace	20	5	15	20	EA	\$995.4	7 \$1,144.79	\$22,896											\$22,896			\$22,896
2. 1	D50	B34721 Lighting & Branch Wiring System, , Upgrade	25	21	4	52000	SF	\$15.3	6 \$17.67	\$918,731				\$918,731										\$918,731
5. See 1.		947081 Intercom Master Station, Replace	20	19	1	1	EA	\$3,814.5	0 \$4,386.67	\$4,387	\$4,387													\$4,387
5. See Menormal Menor	D60	Building Communication System, , Replace	20	18	2	35	EA	\$575.0	9 \$661.3	\$23,147		\$23,147												\$23,147
1. 1	D50	945811 Clock and Bell System, Wireless or Ethernet Enabled, Up To 100 Total Clocks / Bells, Replace	15	14	1	52000	SF	\$0.5	1 \$0.59	\$30,498	\$30,498										\$30,498			\$60,996
Property	C10	334688 Clock, , Replace	15	12	3	30	EA	\$320.1	8 \$368.20	\$11,046			\$11,046									\$11,046		\$22,092
5. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	D70	834739 Fire Alarm Control Panel, Addressable, Replace	15	18	0	1	EA	\$20,297.5	9 \$23,342.23	\$23,342	\$23,342										\$23,342			\$46,684
Properties   Pro	D70	834691 Fire Alarm System, School, Upgrade	20	18	2	52000	SF	\$3.1	3 \$3.60	\$187,276		\$187,276												\$187,276
Properties   Pro	D70	834702 Security/Surveillance System, Cameras and CCTV, Upgrade	10	18	0	52000	SF	\$4.3	5 \$5.00	\$259,963	\$259,963							\$259,963						\$519,925
E. 1. S. 1.	D70	834707 Emergency Exit System, , Replace	10	1	9	17	EA	\$418.9	5 \$481.79	\$8,190							\$8,190						\$8,190	\$16,381
E. M. S. M. M. S. M.	D70	834742 Defibrillator, Cabinet Mounted, Replace	5	18	0	1	EA	\$1,409.5	0 \$1,620.93	\$1,621	\$1,621				\$1,621			\$1,621			\$1,621			\$6,484
E. 1. 8. 4. 70 S.	E10	834683 Commercial Kitchen, Refrigerator, Chest, Replace	15	13	2	1	EA	\$2,515.0	0 \$2,892.25	\$2,892		\$2,892										\$2,892		\$5,785
End 3470 Summeroul Michier, Refrigerator, Chest, Replace 15 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	E10	834720 Commercial Kitchen, Refrigerator, Chest, Replace	15	13	2	1	EA	\$2,515.0	0 \$2,892.25	\$2,892		\$2,892										\$2,892		\$5,785
E10 84726 Vin., Replace	E10		15	13	2	1	EA	\$2,515.0	0 \$2,892.25	\$2,892		\$2,892										\$2,892		\$5,785
E1 0 8471 Commercial Kitchen, Food Warmen, Replace 15 7 8 8 1 EA 51,551 9 1,784 60 31,785 60 150 51,			20	18	2	1	EA	\$2,700.0	0 \$3,105.00	\$3,105		\$3,105												
E10 34737 Commercial Kitchen, Food Warmer, Replace 15 7 8 8 1 EA \$1,551.91 \$1,784.90 \$1,785 \$	E10	834710 Commercial Kitchen, Food Warmer, Replace	15	13	2	1	EA	\$1,551.9	1 \$1,784.69			\$1,785										\$1,785		
E10 834675 Commercial Kitchen, Refigerator, Chest, Replace 15 7 8 1 1 EA \$2,515.00 \$2,892.25 \$2,882 \$ 1 1 EA \$4,285.00 \$4,884.40 \$4,894	E10	834737 Commercial Kitchen, Food Warmer, Replace	15	7	8	1	EA	\$1,551.9	1 \$1,784.69	\$1,785						\$1,785								\$1,785
E10 834678 Commercial Kitchen, Refrigerator, 2-Door Reach-In, Replace 15 7 8 1 EA \$4,256.00 \$4,894.00 \$4,8	E10		15	7	8	1	EA																	
E10 834882 Residential Appliances, Refrigerator, 14.18 CF. Replace 15 15 12 3 2 EA 5956.0 \$1,099.4 \$2,199 \$1,0			15	7	8	1	EA	-	-	-														
D3 83474 Celling Fan, Replace	E10		15	13	2	2	EA					\$2,199										\$2.199		-
8474 Kitchen Cabinet, Base and Wall Section, Wood, Replace 20 18 2 10 LF \$467.68 \$53.78 \$5.3762 \$5.37	-			12	3	2		-				72,100												
95867 Davis Bacon Prevailing Wages, Surcharge for Prevailing Wages, 10% surcharge for prevailing wages				18	2	10			-			\$5.378												
G2020         861035         Parking Lots, Asphalt Pavement, Seal & Stripe         5         1         4         3000         SF         \$0.38         \$0.44         \$13,093				1	0	55445.46		-	-					\$63.762	\$63.762 \$63.762	2 \$63.762 \$63.762	\$63,762	\$63.762 \$63.	762 \$63,762	\$63.762 \$63.762	\$63.762 \$63.762	\$63.762 \$63.762	\$63.762	
G2060 845967 Signage, Property, Monument/Pylon, Replace 20 11 9 1 EA \$8,602.0 \$9,892.30 \$9,892 \$	G2020									-		777,122	444,144					777, 77	777,72		7	***************************************		
C10 834713 Sports Apparatus, Basketball Backsto, Replace 10 7 3 5 EA \$50.00 \$575.00 \$2,875 \$ \$2,875 \$ \$2,875 \$ \$ \$2,875 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				11		1								Ψ.0,000						ψ.ο,σσσ			ψ10,000	
G2060 861040 Sports Apparatus, Basketball Backstop, Replace 10 7 3 4 EA \$9,435.64 \$10,850.98 \$43,404 \$ \$43,404 \$ \$ \$43,404 \$ \$ \$ \$43,404 \$ \$ \$ \$ \$43,404 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-			7		5							\$2 875				40,002			\$2.875				
G2060 865818 Play Structure, Large, Replace 20 16 4 1 EA \$53,130.00 \$61,099.50 \$61,100 \$61,100 \$62080 845760 Landscaping, Mature Tree, Remove/Trim 20 20 0 15 EA \$1,239.70 \$1,425.66 \$21,385 \$	-																							
G2080 845760 Landscaping, Mature Tree, Remove/Trim 20 20 00 15 EA \$1,239.70 \$1,425.66 \$21,385 \$21,385 \$410 834719 Engineer, Structural, Superstructure, Evaluate/Report 0 0 0 1 EA \$10,000.00 \$11,500						1			+				ψ-10,704							ψ.υ,τυτ				
A10 834719 Engineer, Structural, Superstructure, , Evaluate/Report 0 0 1 EA \$10,000.00 \$11,500 \$11,500 \$11,500						15								ψυ1,100										
			0	U	J	'	EA	φ 10,000.0	φ11,500.00	φ11,500		****	#0F0	04 000 045	****	0 000 700 0 00 700	****	NEOF 440 045-	454 650 000	2040 740 270 2:-	6400 040 604 6==	*****	****	\$11,500

Totals, Unescalated

Totals, Escalated (3.0% inflation, compounded annually)

\$4,405,729 \$170,672 \$950,761 \$653,605 \$1,669,348 \$65,383 \$224,183 \$63,762 \$435,584 \$807,063 \$505,413 \$155,451 \$72,906 \$218,746 \$79,315 \$122,218 \$94,375 \$221,421 \$170,511 \$349,945

\$11,436,392 \$13,261,296

\$4,405,729 \$175,792 \$1,008,663 \$714,211 \$1,878,866 \$75,797 \$267,686 \$78,420 \$551,784 \$1,053,034 \$679,232 \$215,181 \$103,946 \$321,236 \$119,971 \$190,412 \$151,445 \$365,975 \$290,284 \$613,630

\* Markup/LocationFactor (1.0) has been included in unit costs. Markup includes a and 15% Ann Arbor Premium factors applied to the location adjusted unit cost.

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## 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:	2100 Crestland Drive, Ann Arbor, Washtenaw, Michigan 48104						
Year Constructed/Renovated:	1957						
Current Occupants:	Ann Arbor Public Schools						
Percent Utilization:	100						
Management Point of Contact:	Ann Arbor Public Schools, Jim Vibbart, Title 734.320.3613 phone vibbart.j@aaps.k12.mi.us email						
Property Type:	Elementary School						
Site Area:	11.33 acres						
Building Area:	52,000 SF						
Number of Buildings:	1						
Number of Stories:	1						
Parking Type and Number of Spaces:	38 spaces in open lots						
Building Construction:	Masonry bearing walls and concrete columns, beams, and decking						
Roof Construction:	Flat roofs with modified bituminous membrane Flat roof with EPDM membrane						
Exterior Finishes:	Concrete Masonry						
Heating, Ventilation & Air Conditioning:	Central system with boilers, air handlers, unit ventilators, and hydronic baseboard radiators and cabinets.						
	Supplemental components: Ductless split-systems						
Fire and Life/Safety:	Hydrants, smoke detectors, alarms, strobes, extinguishers, pull stations, alarm panel, exit signs, and annunciator panel.						
ADA:	This building does not have any major ADA issues						

All 52,000 square feet of the building are occupied by a single occupant, Pattengill Elementary/Ann Arbor Public Schools. The spaces are a combination of classrooms, offices, typical school spaces, supporting restrooms, mechanical room, and other utility/storage spaces.

The following table identifies the unit types and mix at the subject property:

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. Areas of note that were either inaccessible or not observed for other reasons are listed in the table below:

Key Spaces Not Observed									
Room Number	Area	Access Issues							
	Roof	Roof was not accessible due to snow and lack of roof access.							

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:	1/31/2018							
On-Site Point of Contact (POC):	Jim Vibbart							



Property Information								
Assessment and Report Prepared by:	James Cuellar							
	Andrew Hupp							
Reviewed by:	Program Manager							
Roviowod by.	ahupp@emgcorp.com							
	800.733.0660 x6632							

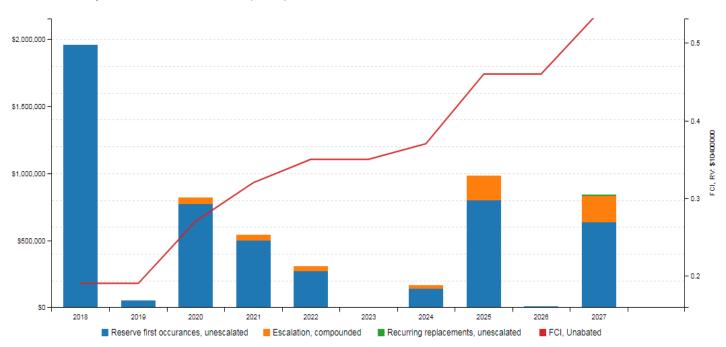
### 1.2 Key Findings

Site: The site is in fair condition overall. Future lifecycle replacements are recommended.

**Architectural :** The CMU is in poor condition. The concrete block in Orchestra room, girls bathroom, computer lab, and vocal lab observed cracks throughout these rooms. Survellence system is antiqued. Some ceiling repairs are required.

**MEPF**: Most of the mechanical and electrical components in the building are in fair condition. The building automation system utilizes an old pneumatic control system. It is recommended it be upgraded to a full DDC system.

### 1.3 Facility Condition Index (FCI)



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



FCI Condition Rating	Definition	Percentage Value
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)	0.19	Poor				
10-Year Facility Condition Index (FCI) FCI = (RR)/(CRV)	0.55	Poor				
Current Replacement Value (CRV)	52,000 SF * 200 \$ / SF = \$10,400,000					
Year 0 (Current Year) - Immediate Repairs (IR)		\$1,955,127				
Years 1-10 – Replacement Reserves (RR)	\$3,724,233					
Total Capital Needs		\$5,679,360				

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	Concrete spread footings	Poor		
Basement and Crawl Space	None			

#### Anticipated Lifecycle Replacements

- Structural study
- Structural repairs

#### Actions/Comments:

The foundations and footings cannot be directly observed. However, there are isolated areas of cracking, movement, and vertically displaced slabs throughout the orchestra room, girls bathroom, computer lab, and vocal lab. This condition typically indicates excessive settlement or other potential problems with the foundation system. A Professional Engineer with specific expertise in structural design and construction in this geographical area must be retained to evaluate the structure and to provide remedial recommendations consistent with local regulatory and code requirements. Although the estimated cost of repair cannot be accurately determined without the recommended study, a budgetary cost allowance to repair the affected elements is also included.

## **B10 Superstructure**

B1010 Floor Construction & B1020 Roof Construction				
Item Description Condition				
Framing / Load-Bearing Walls	Masonry walls	Fair		
Ground Floor	Concrete slab	Fair		
Upper Floor Framing None				
Upper Floor Decking	None			
Balcony Framing	None			
Balcony Decking	None			
Balcony Deck Toppings	None			
Balcony Guardrails None				
Roof Framing Steel beams or girders		Good		
Roof Decking	Metal decking	Good		

Maintenance Issues					
Observation Exists At Site Observation Exists At Site					
Caulk minor cracking		Monitor cracking for growth			
Other					



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#### 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 None		None	None	None	
Building Interior Stairs/Ramp	Concrete ramp	None	Metal	None	Fair

#### Anticipated Lifecycle Replacements:

Rail refinishing

#### 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.



## 3 Building Envelope

#### **B20 Exterior Vertical Enclosures**

B2010 Exterior Walls					
Type Location Condition					
Primary Finish	Brick veneer	Fair			
Secondary Finish	None				
Accented with	None				
Soffits	Not Applicable				
Building sealants	Between dissimilar materials, at joints, around windows and doors	Fair			

Maintenance Issues				
Observation Exists At Site Observation Exists At Si				
Graffiti		Efflorescence		
Other		Other		

#### Anticipated Lifecycle Replacements:

Masonry re-pointing

#### Actions/Comments:

 No significant actions are identified at the present time. On-going periodic maintenance, including patching repairs, graffiti removal, 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, operable	Double glaze	Surounding building		Fair	

B2050 Exterior Doors				
Main Entrance Doors	Door Type	Condition		
man Zimanee Beere	Solid core with glazing	Fair		
Secondary Entrance Doors	Solid core with glazing	Fair		
Service Doors	ervice Doors Metal, insulated			
Overhead Doors	None			



#### Anticipated Lifecycle Replacements:

- Windows
- Exterior enterance doors
- Exterior service doors

#### Actions/Comments:

- The windows display significant evidence of leaks, condensation throughout the entire building. The damaged windows must be replaced.
- There are a significant number of damaged, delaminated, deteriorated, rusted doors and door frames. The damaged doors and frames
  must be replaced.

#### **B30 Roofs**

B3010 Primary Roof				
Location	East Roof	Finish	Modified bitumen	
Type / Geometry	Flat	Roof Age	27 Yrs	
Flashing	Sheet metal	Warranties	None reported	
Parapet Copings	None	Roof Drains	Internal drains	
Fascia	None	Insulation	Rigid Board	
Soffits	None	Skylights	No	
Attics	Steel beams	Ventilation Source-1	Power Vents	
Roof Condition	Poor	Ventilation Source-2	None	

B3010 Secondary Roof				
Type / Geometry	Flat	EPDM		
		Roof Age	17 Yrs	
Flashing	Sheet metal	Warranties	None reported	
Parapet Copings	None	Roof Drains	Internal drains	
Fascia	None	Insulation	Rigid Board	
Soffits	None	Skylights	No	
Attics	Steel beams	Ventilation Source-1	Power Vents	
Roof Condition	Fair	Roof Location	West Roof	

Maintenance Issues					
Observation Exists At Site Observation Exists At Si					
Drainage components broken/missing		Vegetation/fungal growth			
Blocked Drains	$\boxtimes$	Debris			



Maintenance Issues				
Observation Exists At Site Observation Exists At Sit				
Other		Other		

Degradation Issues					
Observation Exists At Site Observation Exists At S					
Evidence of roof leaks	$\boxtimes$	Significant ponding			
Excessive patching or repairs		Blistering or ridging			
Other		Other			

#### Anticipated Lifecycle Replacements:

- EPDM roof
- Modified bituminous roof
- Hanging tree limbs near roof

#### Actions/Comments:

- The roof finishes appear to be more than 17 years old. Information regarding roof warranties or bonds was not available. The roofs
  are maintained by an outside contractor.
- The modified bituminous roofs have significant areas of heavy membrane wear on the east roof. Replacement is recommended. A
  cost allowance for this work is included.
- Roof leaks have occurred within the past year, and some of these leaks remain active. The leaks occur throughout the building. All active leaks must be repaired.
- There are ponding stains and build-up of debris at some of the drain locations throughout the entire roof. The affected drains must be cleaned and cleared and debris must be removed from the roof surfaces. Overhanging tree branches must cleared from the perimeter of the roof.



## 4 Interiors

## C10 Interior Construction

C1030 Interior Doors				
Item	Туре	Condition		
Interior Doors	Solid core wood	Fair		
Door Framing	Metal	Fair		
Fire Doors	Yes	Fair		
Closet Doors	Solid core wood	Fair		

Maintenance Issues					
Observation	Exists At Site	Observation	Exists At Site		
Improperly adjusted door closures		Damaged/loose door hardware			
Other		Other			

C2010 Wall Finishes; C2030 Floor Finishes; C2050 Ceiling Finishes: The following table generally describes the locations and typical conditions of the interior finishes within the facility:

#### Interior Finishes - PATTENGILL ELEMENTARY

Location / Space	Finish		Quantity (SF)	Condition	Action	RUL t	Est. Cost
Throughout building	Wall	Concrete/Masonry	3,600	Fair	Prep & Paint	3	\$5,224
Middle Wing	Wall	Concrete	34,000	Poor	Repair	0	\$1,028,425
Throughout building	Ceiling	Suspended Acoustical Tile (ACT)	36,500	Fair	Replace	2	\$113,552
Gym	Floor	Wood Strip	1,000	Fair	Sand & Refinish	3	\$3,678
Media room	Ceiling	Gypsum Board/Plaster	1,000	Poor	Repair	0	\$7,319
Hallway in middle wing	Wall	Gypsum Board/Plaster	200	Poor	Repair	0	\$636
Restrooms	Wall	Ceramic Tile	8,000	Fair	Replace	3	\$132,432
Middle wing	Wall	Concrete/Masonry	3,600	Fair	Prep & Paint	3	\$5,224
Middle wing	Floor	Carpet Standard-Commercial Medium-Traffic	12,000	Fair	Replace	3	\$87,076
Throughout building	Floor	Vinyl Tile (VCT)	24,000	Fair	Replace	2	\$115,214
Throughout building	Floor	Ceramic Tile	4,000	Good	Replace	32	\$63,020
Throughout building	Ceiling	Suspended Acoustical Tile (ACT)	2,500	Poor	Replace	0	\$7,778

Maintenance Issues					
Observation Exists At Site Observation Exists At Site					
Loose carpeting/flooring		Minor areas of stained ceiling tiles			
Minor paint touch-up		Areas of damaged/missing baseboard			
Other		Other			



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#### Anticipated Lifecycle Replacements:

- Vinyl tile
- Ceramic tile
- Carpet
- Interior painting
- Suspended acoustic ceiling tile
- Gym floor refinishing
- Interior doors
- Basketball backboards
- Kitchen cabinets
- Time clocks
- Toilet partitions

#### Actions/Comments:

- It appears that the interior finishes are original.
- The ceiling tiles have isolated areas of water-damaged ceilings throughout the property. The damaged ceiling tiles need to be replaced. A cost allowance for this work is included.
- There are isolated areas of faded wall finishes throughout the property. The damaged wall areas need to be repainted. A cost allowance for this work is included.



## 5 Services (MEPF)

### D10 Conveying Systems

Not applicable. There are no elevators or conveying systems.

## D20 Plumbing

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

Domestic Water Heaters or Boilers				
Components	Water Heaters			
Fuel	Natural gas			
Boiler or Water Heater Condition	Good			
Supplementary Storage Tanks?	No			
Adequacy of Hot Water	Adequate			
Adequacy of Water Pressure	Adequate			

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

Maintenance Issues					
Observation Exists At Site Observation Exists At Site					
Hot water temperature too hot or cold		Minor or isolated leaks			
Other		Other			



#### Plumbing System - PATTENGILL ELEMENTARY

Location / Space	Component	Component Description	Quantity	Unit	Condition	Action	RUL	Est. Cost
Boiler room	Backflow Preventer	2"	1	EΑ	NA	Replace	0	\$2,603
Classroom restroom	Lavatory	Vitreous China	35	EΑ	Fair	Replace	2	\$20,043
Boiler room	Water Heater	Gas, Commercial, 60 to 120 GAL	1	EΑ	Good	Replace	10	\$10,699
Restroom	Urinal	Vitreous China	2	EΑ	Fair	Replace	2	\$2,387
Custodian	Service Sink	Floor	4	EΑ	Fair	Replace	17	\$6,398
Restrooms	Toilet	Tankless (Water Closet)	32	EΑ	Fair	Replace	2	\$26,975
Art room	Sink	Pot, Multi-compartment	22	LF	Fair	Replace	3	\$27,775
Boiler room	Sump Pump	3 HP	1	EΑ	Fair	Replace	3	\$2,063
Classrooms	Sink	Stainless Steel	25	EΑ	Fair	Replace	3	\$26,351
Hallway	Drinking Fountain	Refrigerated	3	EΑ	Fair	Replace	3	\$3,773
Mechanical closet	Sink	Porcelain Enamel, Cast Iron	1	EΑ	Fair	Replace	3	\$1,167

#### Anticipated Lifecycle Replacements:

- Water heaters
- Toilets
- Urinals
- Sinks
- Sump pumps
- Drinking fountain

#### 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.
- A backflow preventer was not observed on the domestic water pune. A backflow preventer is typically installed on new construction. It reduces the risk of contaminating the municipal water supply.

## 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			

Distribution System				
HVAC Water Distribution System	Two-pipe			
Air Distribution System	Constant Volume			
Location of Air Handlers	Rooftop, exterior			
Terminal Units	Unit Ventilators			



Distribution System				
Quantity and Capacity of Terminal Units	Quantity and capacity difficult to determine without construction drawings			
Location of Terminal Units	Classrooms			

Packaged, Split & Individual Units			
Primary Components	Package units		
Cooling (if separate from above)	performed via components above		
Heating Fuel	Natural gas		
Location of Equipment	Rooftop		
Space Served by System	East Wing		

Supplemental/Secondary Components			
Supplemental Component #1	Ductless mini-split systems		
Location / Space Served by ductless mini-split	Data rooms		
ductless mini-split Condition	Fair		
Supplemental Component #2	Wall heaters		
Location / Space Served by wall heaters	Hallways		
Wall heaters Condition	Fair		
Supplemental Component #3	Hydronic Cabinet Unit Heaters		
Location / Space Served by Hydronic Cabinet Unit	Class rooms		
Hydronic Cabinet Unit Heaters Condition	Fair		

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

Maintenance Issues						
Observation Exists At Site Observation Exists At Site						
Ductwork/grills need cleaned ☐ Minor control adjustments needed ☐						
Leaking condensate lines		Poor mechanical area access				



Maintenance Issues						
Observation Exists At Site Observation Exists At Site						
Other	□ Other □					

Degradation Issues					
Observation Exists At Site Observation Exists At					
Heating, Cooling or Ventilation is not adequate	×	Major system inefficiencies	$\boxtimes$		
HVAC controls pneumatic or antiquated	$\boxtimes$	Obsolete refrigerants : R11, R12, R22, R123, R502	$\boxtimes$		
Other		Other			

#### Mechanical Systems - PATTENGILL ELEMENTARY

Location / Space	Component	Component Description	Quantity Unit	Condition	Action	RUL	Subtotal
Mechanical room	Building Automation System	HVAC Controls	52,000 SF	Poor	Upgrade	0	\$278,850
Boiler room	Distribution Pump	Heating Water, 5 HP	1 EA	Fair	Replace	3	\$5,519
Boiler room	Boiler	Gas, 1,001 to 2,000 MBH	1 EA	Fair	Replace	6	\$46,465
Hallway	Cabinet Heater	Hydronic	2 EA	Fair	Replace	3	\$6,360
Cafeteria	Ceiling Fan	Ceiling Fan	2 EA	Fair	Replace	3	\$1,416
Boiler room	Distribution Pump	Heating Water, 5 HP	1 EA	Fair	Replace	3	\$5,519
Mechanical room	Hydronic Wall Unit	Hydronic Baseboard	150 LF	Fair	Replace	23	\$19,916
Classrooms	Unit Ventilator	300 to 750 CFM (approx. 2 Ton)	30 EA	Fair	Replace	4	\$202,488
Boiler room	Boiler	Gas, 1,001 to 2,000 MBH	1 EA	Fair	Replace	6	\$46,465
Boiler room	Boiler	Gas, 1,001 to 2,000 MBH	1 EA	Fair	Replace	6	\$46,465
Boiler room	Air Compressor	2 HP	1 EA	Good	Replace	15	\$6,612
Mechanical room	Ductless Split System	Single Zone, 1.5 to 2 Ton	1 EA	Fair	Replace	2	\$4,473
Throughout building	Cabinet Heater	Hydronic	13 EA	Fair	Replace	2	\$41,339
Throughout	Air Conditioner	Window/Thru-Wall, 1.5 to 2 Ton	20 EA	Fair	Replace	1	\$51,770
Roof	Exhaust Fan	Centrifugal, 801 to 2,000 CFM	30 EA	Fair	Replace	3	\$79,925
Roof	Air Handler	Exterior, 6,001 to 8,000 CFM	1 EA	Good	Replace	10	\$37,803

#### Anticipated Lifecycle Replacements:

- Boilers
- Distribution pumps and motors
- Hydronic cabinet unit heaters
- Unit ventilators
- Electric wall heaters
- Mini-split system
- Hydronic baseboard heaters
- Through-wall air conditioners
- Rooftop exhaust fans
- Building automation system
- Ceiling fans



#### Actions/Comments:

- The HVAC systems are maintained by an outside contractor. Records of the installation, maintenance, upgrades, and replacement of the HVAC equipment at the property have been maintained since the property was first occupied.
- HVAC equipment varies in age. HVAC equipment is replaced on an "as needed" basis.
- The HVAC equipment appears to be functioning adequately overall. The property management staff was interviewed about the historical and recent performance of the equipment and systems. No chronic problems were reported and an overall sense of satisfaction with the systems was conveyed. However, due to the inevitable failure of parts and components over time, some of the equipment will require replacement.
- The facility HVAC is controlled using an outdated pneumatic system supplied by an air compressor. For modernization, reliability, and
  increased control, full conversion to a web-based direct digital control (DDC) platform is highly recommended.

#### D40 Fire Protection

Item	Description							
Туре	None							
Carialdar Cuatam	None	$\boxtimes$	Standpipe	s			Backflow Preventer	
Sprinkler System	Hose Cabinets		Fire Pump	s			Siamese Connections	
Sprinkler System Condition								
Fire	Last Service Date				Servicing (	Curre	nt?	
Extinguishers	July, 2017	July, 2017						
Hydrant Location	None listed							
Siamese Location	None listed							
Special Systems	Kitchen Suppress	sion S	System		Comp	uter R	oom Suppression System	

Maintenance Issues					
Observation Exists At Site Observation Exists At Site					
Extinguisher tag expired	☐ Riser tag expired (5 year) ☐				
Other		Other			

#### Anticipated Lifecycle Replacements:

Fire extinguishers

#### Actions/Comments:

• The vast majority of the building is not protected by fire suppression. Due to its construction date, the facility is most likely "grandfathered" by code and the installation of fire sprinklers not required until major renovations are performed. Regardless of when or if installation of facility-wide fire suppression is required by the governing municipality, EMG recommends a retrofit be performed. A budgetary cost is included.



#### D50 Electrical

Distribution & Lighting						
Electrical Lines	Underground	Transformer	Pole-mounted			
Main Service Size	1,200 Amps	Volts	120/208 Volt, three-phase			
Meter Location	Electrical room	Branch Wiring	Copper			
Conduit	Metallic	Step-Down Transformers?	No			
Lighting Fixtures	T-8					
Main Distribution Condition	Fair					
Secondary Panel and Transformer Condition	Fair					
Lighting Condition	Fair	Fair				

Maintenance Issues						
Observation Exists At Site Observation Exists At Si						
Improperly stored material		Unsecured high voltage area				
Loose cables or impoper use of conduit		Poor electrical room ventilation				
Other		Other				

#### Anticipated Lifecycle Replacements:

- Circuit breaker panels
- Main switchboard
- Interior light fixtures

#### Actions/Comments:

- The onsite electrical systems up to the meters 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, switchboards and lighting vary in age. The electrical service appears to be adequate for the facility's needs. However, due to the age of the panels, switchboards and lighting 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	Public Address System    □ Clock □				



### D70 Electronic Safety and Security

D7010 Access Control and Intrusion Detection / D7050 Detection and Alarm							
Item			Des	cription			
Access Control	Exterior Camera	$\boxtimes$	Interior Camera	ı	$\boxtimes$	Front Door Camera Only	
and Intrusion Detection	Cameras monitored		Security Person	nnel On-Site		Intercom/Door Buzzer	
	Central Alarm Panel	$\boxtimes$	Battery-Operated Smoke Detectors			Alarm Horns	$\boxtimes$
Fire Alarm System	Annunciator Panels		Hard-Wired Smoke Detectors		$\boxtimes$	Strobe Light Alarms	$\boxtimes$
	Pull Stations	$\boxtimes$	Emergency Bat Lighting	Emergency Battery-Pack Lighting		Illuminated EXIT Signs	$\boxtimes$
Fire Alarm System Condition	Fair						
Central Alarm	Location of Alarm Panel Installation Date of Alarm Panel			of Alarm Panel			
Panel System	Office			Unknown			

#### Anticipated Lifecycle Replacements:

- Central alarm panel
- Alarm devices and system
- Public address speakers
- Exit signs
- Defibrillators
- Security system

#### Actions/Comments:

• The fire alarm systems appear somewhat antiquated and not up to current standards. Due to the age of the components and apparent shortcomings, a full modernization project is recommended. A budgetary cost is included.



## 6 Equipment & Furnishings

## E10 Equipment

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

E1030 Commercial Kitchen Equipment					
Appliance	Comment	Condition			
Refrigerators	Up-right	Fair			
Freezers	Up-right	Fair			
Ranges					
Ovens	Food warmers	Fair			
Griddles / Grills					
Fryers					
Hood					
Dishwasher					
Microwave					
Ice Machines					
Steam Tables					
Work Tables					
Shelving					

#### Anticipated Lifecycle Replacements:

- Food Warmer
- Reach-in freezer
- Reach-in cooler
- Kiln

#### 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	Good			
Parking Lot	Asphalt	Good			
Drive Aisles	Asphalt	Good			
Service Aisles	Asphalt	Good			
Sidewalks	Concrete	Good			
Curbs	Concrete	Good			
Pedestrian Ramps	None				
Ground Floor Patio or Terrace	None				

	Parking Count						
Open Lot	Carport	Private Garage	Subterranean Garage	Freestanding Parking Structure			
37	-	-	-	-			
Total Number of ADA C	compliant Spaces			1			
Number of ADA Compliant Spaces for Vans			1				
Total Parking Spaces				37			

Site Stairs						
Location	Material	Handrails	Condition			
None	None	None				

Maintenance Issues							
Observation Exists At Site Observation Exists At Site							
Pavement oil stains		Vegetation growth in joints					
Stair/ramp rails loose		Stair/ramp rail needs scraped and painted					
Other		Other					



Degradation Issues					
Observation Exists At Site Observation Exists At Site					
Potholes/depressions		Alligator cracking			
Concrete spalling		Trip hazards (settlement/heaving)			
Other		Other			

#### Anticipated Lifecycle Replacements:

- Asphalt seal coating
- Asphalt pavement
- Concrete pavement
- Sidewalks
- Curbs

#### 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			

Refuse Disposal						
Refuse Disposal	Common area dumpsters					
Dumpster Locations	Mounting Enclosure Contracted? Condition					
North West Asphalt paving None Yes Fair						

Other Site Amenities					
	Description	Location	Condition		
Playground Equipment	Plastic and metal	South West	Fair		
Tennis Courts	None				
Basketball Court	Asphalt	South West	Fair		
Swimming Pool	None				

#### Anticipated Lifecycle Replacements:

- Signage
- Playground equipment
- Basketball backstops



#### 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.

G2080 Landscaping						
Drainage System and Erosion Control						
System Exists At Site Condition						
Surface Flow	$\boxtimes$	Fair				
Inlets	$\boxtimes$	Fair				
Swales						
Detention pond						
Lagoons						
Ponds						
Underground Piping						
Pits						
Municipal System						
Dry Well						

#### 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 do	Slopes down away from the building down to the property lines.							
Landscaping	Trees	Grass	Flower Beds	Planters		Drought Tolerant Plants	D	ecorative Stone	None
	$\boxtimes$	$\boxtimes$							
Landscaping Condition	Fair								
Irrigation	Autor Underg		Drip Hand Watering		ng	None			
								$\boxtimes$	
Irrigation Condition					-				

Retaining Walls				
Туре	Location	Condition		
None				



#### Anticipated Lifecycle Replacements:

Tree trimming

#### Actions/Comments:

Observed hanging limbs that protrude onto the roof. These must be cleared..

### 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 along the exterior walls of the buildings. 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							
	None	Pole Mou	ınted	ted Bollard Lights		Ground Parking L Mounted Pole Typ	
Site Lighting	$\boxtimes$						
	None	None Wall Mounted Rece			essed Soffit		
Building Lighting							
	Good						

Maintenance Issues					
Observation	Exists At Site	Observation	Exists At Site		
Isolated bulb/lamp replacement		Discolored/dirty lens cover			
Other		Other			

#### Anticipated Lifecycle Replacements:

Exterior lighting



PATTENGILL ELEMENTARY EMG PROJECT NO.: 129010.18R000-020.354

#### 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.

## 8 Ancillary Structures

Not applicable. There are no major accessory structures.



## 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.

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 Checklist* provided in Appendix D of this report. 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, other than as shown on the Abbreviated Accessibility Checklist, actual measurements were not taken to verify compliance.

At a school property, the areas considered as a public accommodation besides the site itself and parking, are the exterior accessible route, the interior accessible route up to the tenant lease lines and the interior common areas, including the common area restrooms.

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

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.

#### 11.2 Flood Zone

According to the Flood Insurance Rate Map, published by the Federal Emergency Management Agency (FEMA) and dated April 3, 2012, the property is located in Zone X, defined as an area outside the 500-year flood plain with less than 0.2% annual probability of flooding. Annual Probability of Flooding of Less than one percent.



#### 12 Certification

Ann Arbor Schools retained EMG to perform this Facility Condition Assessment in connection with its continued operation of Pattengill Elementary, 2100 Crestland Drive, Ann Arbor, Michigan, the "Property". It is our understanding that the primary interest of Ann Arbor 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 10 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 <u>4.2</u> 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 Ann Arbor Schools for the purpose stated within Section 10 of this report. The report, or any excerpt thereof, shall not be used by any party other than Ann Arbor Schools 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 Schools and the recipient's sole risk, without liability to EMG.

Prepared by: James Cuellar,

Project Manager

Reviewed by:

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## 13 Appendices

Appendix A: Photographic Record

Appendix B: Site Plan

Appendix C: Supporting Documentation

Appendix D: Pre-Survey Questionnaire



# Appendix A: Photographic Record



#1: FRONT ELEVATION



#2: SIDE ELEVATION



SIGNAGE #3:



#4: **CRACKED WALL** 



#5: CLASSROOM



#6: **HALLWAYS** 



#7: CLASSROOM



#8: MECHANICAL ROOM



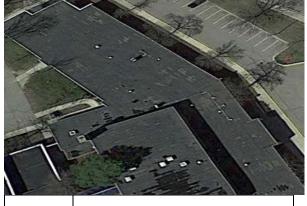
#9: **WINDOWS** 



#10: **CLAY BRICK** 



#11: ROOF



#12: ROOF



#13: DOORS



DOORS #14:



#15: WOOD FLOORING



#16: **CMU WALLS** 



#17: **TOILET PARTITIONS** 



#18: **CARPET** 



#19: **CERAMIC TILE** 



SUSPENDED ACOUSTICAL TILE #20: (ACT)



#21: VINYL TILE (VCT)



#22: WATER HEATER



#23: SINKS



#24: **TOILETS** 



#25: **DISTRIBUTION PUMP** 



#26: **DUCTLESS SPLIT SYSTEM** 



#27: **BOILERS** 



#28: AIR COMPRESSOR



#29: **DUCTLESS SPLIT SYSTEM** 



BUILDING AUTOMATION SYSTEM (HVAC CONTROLS) #30:



#31: **BASEBOARD HEATER** 



**BUILDING AUTOMATION** #32: SYSTEM (HVAC CONTROLS)



#33: **BOILERS** 



#34: **FANS** 



#35: **CABINET UNITS** 



#36: WALL HEATERS



#37: FIRE ALARM CONTROL PANEL



#38: FIRE ALARM SYSTEM, SCHOOL



#39: **SWITCHBOARD** 



#40: **SWITCHBOARD** 

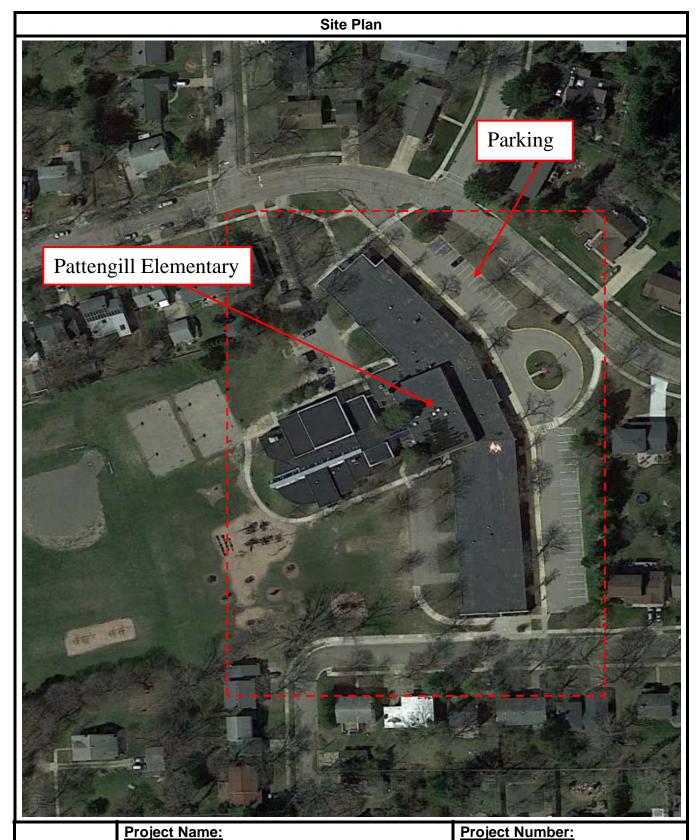


#41: DISTRIBUTION PANEL



#42: LIGHTING SYSTEM

## Appendix B: Site Plan





i Toject Name.	i roject Number.
Pattengill Elementary	129010.18R000-020.354
Source:	On-Site Date:
Google Earth	January 31, 2018

# Appendix C: Supporting Documentation



### Flood Map

## National Flood Hazard Layer FIRMette FEMA Legend SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Levee. See Notes, Zone X Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS GENERAL ---- Channel, Culvert, or Storr STRUCTURES IIIIIIIIIII Levee, Dike, or Floodwall - - - Channel, Culvert, or Storm S Limit of Study Jurisdiction Boundary OF MINIMAL FLOOD HAZARD --- Coastal Transect Baseline Digital Data Available No Digital Data Available MAP PANELS This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes. 1.500



250

500

<u>Project Name:</u>	Project Number:
Pattengill Elementary	129010.18R000-020.354

Source:

1.000

FEMA Map Number: 26161C0263E

2.000

Dated: April 3, 2012

On-Site Date:

January 31, 2018

# Appendix D: Pre-Survey Questionnaire





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.

