Michigan Department of Treasury
3881 (Rev. 09-16)

Completion: Required for Qualification.

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program
for

School District of the City of East Lansing

Contents **Tab**

Certificate . . . . . .Pg 1-Board Cert

Financial Summary . . . . . Pg 2-Financial Summary

Enrollment Projections . . . . . Pg 3-Enrollment

Project Sheet* . . . . . .Pg 4-Proj. Sheet

Building Utilization . . . . . Pg 5-Bldg Utilization

Utilization Summary . . . . . Pg 6-Util Summary

Facility Summary . . . . . Pg 7-Facility Summary

Cost Summary . . . . . Pg 8-Cost Summary

***Include building floor plans and cost estimates for each project.**

For additional information about the School Bond Qualification and Loan Program, visit:

Michigan Department of Treasury
Bureau of State and Authority Finance
School Bond Qualification and Loan Program
430 West Allegan Street
Lansing, Michigan 48922
517-335-0994
517-241-1233 (f)
http://www.michigan.gov/sblf

Financial Summary

SCHOOL DISTRICT OF THE CITY OF EAST LANSING

Financial information provided as of: 1/4/17

A. Existing Bond Debt: List each outstanding debt issue separately in chronological order by issue date.

Original Bond Issue			Current Outstanding Principal Balance				Outstanding Principal Balance as of Election Date				Millage	
Issue Date	Purpose	Issue Amount	Current Qualified	Current Non-Qualified	Current Non-Voted	Current Total	Qualified	Non-Qualified	Non-Voted	Election Date Total	Levied This Tax Year	Estimate Next Tax Year
5/22/13	Building & Technology	5,005,000		2,120,000		2,120,000		1,075,000		1,075,000	1.065	
3/3/15	Refunding	37,810,000	35,610,000			35,610,000	33,085,000			33,085,000	4.140	
						0				0		
						0				0		
						0				0		
						0				0		
Total			35,610,000	2,120,000	0	37,730,000	33,085,000	1,075,000	0	34,160,000	5.205	4.887

Have proceeds of all existing bonds been spent? No (If No, provide status of unspent/unaudited bonds)

B. Proposed Bond Issue: List each ballot proposal separately.

Proposal	Amount	Bond Term	Avg Int Rate	Bond Interest	SLRF Interest	Total Interest	Avg Millage	Millage Year 1
Proposal 1	93,770,000	25 yrs., 0 mos.	4.59%	66,929,916	10,565,989	77,495,906	4.45	2.11
Proposal 2								
Proposal 3								
Proposal 4								
Combined Issue	93,770,000			66,929,916	10,565,989	77,495,906		

(Totals may not foot due to differences in the financial structure of individual proposals and a combined bond issue.)

C. School Bond Loan Participation

School Bond Loan Fund Current								Millage		Est Amt to be Borrowed			
Mandatory Final SBLF Loan Repayment Date	Current SBLF Balance	Estimated SBLF Balance as of Election Date	SBLF Beginning Date	Projected SBLF End Date	Estimated SBLF Interest Rate	Maximum SFLF Balance	Maximum SBLF Balance Year	Initial Computed Millage	Estimated Duration of Computed Millage	Existing Bonds Principal	Existing Bonds Interest	Proposed Bonds Principal	Proposed Bonds Interest
2051	0	0	May-21	May-39	5.00%	20,563,074	2031	7.00	22	0	0	15,409,365	10,565,989

D. Property Tax Assumptions

Current		Growth Rate				Property Taxes Levied		Pending
Tax Year	Taxable Value	Prior 5 Year Average	Prior 20 Year Average	Projected Rate Years 1 - 5	Projected Rate Years 6+	Winter	Summer	Material Tax Appeals in the District
2016	1,055,475,640	0.26%	2.51%	0.26%	2.51%	0.00%	100.00%	No

(If district is aware of any event or circumstance that could significantly affect its future, disclosure must be included.)

E. Millage

Total Estimated Proposed Millage for Next Tax Year	Estimated Duration of Millage Levy	Maximum Millage without SBLF Participation	1st Year Millage Increase
7.00	28 Years	9.15	1.795

F. Key Financial Measures

Interest to Bond Ratio	Bonded Debt to Taxable Value	Total Debt to Taxable Value	Weighted Average Maturity of Bonds	120% of Average Useful Life of Assets	Total Current Bond Debt plus School Bond Loan Debt
0.83	0.12	0.12	15.56	44.09	37,730,000

G. Bond Issuance

Series/ Proposal	Amount	Dated Date	Construction Fund Beg. Date	Construction Fund End Date
1	58,830,000	6/30/17	7/1/17	4/1/20
2	34,940,000	5/1/20	5/1/20	9/1/21
3				
4				
5				

H. Certification

The financial impact presented herin is based on certain assumptions regarding interst rates and taxable value growth rates. Actual millage rates may be subject to adjustment based on differences in these assumptions, actual intersert rates, and future taxable value growth.

Prepared By Robert J. Naughton

Firm PFM Financial Advisors LLC

BONDING PROPOSAL

Shall the School District of the City of East Lansing, Ingham and Clinton Counties, Michigan, borrow the sum of not to exceed Ninety-Three Million Seven Hundred Seventy Thousand Dollars ($93,770,000) and issue its general obligation unlimited tax bonds therefor, in one or more series, for the purpose of:

> erecting, furnishing and equipping five (5) new elementary school buildings; remodeling, furnishing and refurnishing and equipping and re-equipping a school building; acquiring and installing instructional technology and instructional technology equipment for school buildings; equipping, preparing, developing and improving playgrounds, play fields, parking areas, drives and sites?

The following is for informational purposes only:

The estimated millage that will be levied for the proposed bonds in 2017, under current law, is 2.11 mills ($2.11 on each $1,000 of taxable valuation). The maximum number of years the bonds of any series may be outstanding, exclusive of any refunding, is twenty-five (25) years. The estimated simple average annual millage anticipated to be required to retire this bond debt is 4.45 mills ($4.45 on each $1,000 of taxable valuation).

The school district expects to borrow from the State School Bond Qualification and Loan Program to pay debt service on these bonds. The estimated total principal amount of that borrowing is $15,409,365 and the estimated total interest to be paid thereon is $10,565,989. The estimated duration of the millage levy associated with that borrowing is twenty-two (22) years and the estimated computed millage rate for such levy is 7.00 mills. The estimated computed millage rate may change based on changes in certain circumstances.

The total amount of qualified bonds currently outstanding is $33,085,000. The total amount of qualified loans currently outstanding is $0.

(Pursuant to State law, expenditure of bond proceeds must be audited, and the proceeds cannot be used for repair or maintenance costs, teacher, administrator or employee salaries, or other operating expenses.)

The PFM Group
Financial & Investment Advisors

SCHOOL DISTRICT OF THE CITY OF EAST LANSING
TAXABLE VALUE HISTORY

		Est./Actual Taxable Value	Exempt Personal Property	Adjusted Taxable Value	Annual Change	5 Year Average 0.26% 20 Year Average
2	2016	1,055,475,640	0	1,055,475,640	0.91%	2.51%
3	2015	1,045,947,561		1,045,947,561	2.98%	
4	2014	1,015,686,256		1,015,686,256	1.85%	
5	2013	997,246,548		997,246,548	-1.01%	
6	2012	1,007,398,645		1,007,398,645	-3.41%	
7	2011	1,042,937,353		1,042,937,353	-3.70%	
8	2010	1,083,054,029		1,083,054,029	-4.40%	
9	2009	1,132,866,156		1,132,866,156	1.81%	
10	2008	1,112,745,348		1,112,745,348	3.84%	
11	2007	1,071,573,057		1,071,573,057	4.15%	
12	2006	1,028,861,577		1,028,861,577	4.87%	
13	2005	981,120,275		981,120,275	5.66%	
14	2004	928,544,384		928,544,384	5.87%	
15	2003	877,035,007		877,035,007	5.23%	
16	2002	833,459,144		833,459,144	5.59%	
17	2001	789,349,357		789,349,357	6.13%	
18	2000	743,741,490		743,741,490	4.44%	
19	1999	712,111,831		712,111,831	2.66%	
20	1998	693,626,979		693,626,979	3.72%	
21	1997	668,759,367		668,759,367	2.94%	
22	1996	649,646,044		649,646,044		

The PFM Group
Financial & Investment Advisors

SCHOOL DISTRICT OF THE CITY OF EAST LANSING
EXISTING DEBT: BEFORE ADDITIONAL BONDING

		2013 SCHOOL BUILDING AND TECHNOLOGY BONDS - UTNQ Original Amount: $5,005,000 Net Interest Cost: 3.000% Non-Callable Voter Approved Before 2013: No Current Interest Bonds Dated: 5/22/13					2015 REFUNDING BONDS - UTQ Original Amount: $37,810,000 Net Interest Cost: 5.000% Maturities >=2026 Callable 5/1/25 @ 100 Voter Approved Before 2013: Yes Current Interest Bonds Dated: 3/3/15					TOTAL DEBT	
		$2,120,000					$35,610,000							
Tax Year	Payment Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total P&I	Total Principal	Total P&I
2016	2017	$31,800	$31,800	3.000%	$1,045,000	$1,108,600	$890,250	$890,250	5.000%	$2,525,000	$4,305,500	$3,570,000	$5,414,100
2017	2018	16,125	16,125	3.000%	1,075,000	1,107,250	827,125	827,125	5.000%	2,555,000	4,209,250	3,630,000	5,316,500
2018	2019	0	0	0.000%	0	0	763,250	763,250	5.000%	2,540,000	4,066,500	2,540,000	4,066,500
2019	2020	0	0	0.000%	0	0	699,750	699,750	5.000%	2,565,000	3,964,500	2,565,000	3,964,500
2020	2021	0	0	0.000%	0	0	635,625	635,625	5.000%	2,585,000	3,856,250	2,585,000	3,856,250
2021	2022	0	0	0.000%	0	0	571,000	571,000	5.000%	2,600,000	3,742,000	2,600,000	3,742,000
2022	2023	0	0	0.000%	0	0	506,000	506,000	5.000%	2,620,000	3,632,000	2,620,000	3,632,000
2023	2024	0	0	0.000%	0	0	440,500	440,500	5.000%	2,605,000	3,486,000	2,605,000	3,486,000
2024	2025	0	0	0.000%	0	0	375,375	375,375	5.000%	2,590,000	3,340,750	2,590,000	3,340,750
2025	2026	0	0	0.000%	0	0	310,625	310,625	5.000%	2,550,000	3,171,250	2,550,000	3,171,250
2026	2027	0	0	0.000%	0	0	246,875	246,875	5.000%	2,505,000	2,998,750	2,505,000	2,998,750
2027	2028	0	0	0.000%	0	0	184,250	184,250	5.000%	2,505,000	2,873,500	2,505,000	2,873,500
2028	2029	0	0	0.000%	0	0	121,625	121,625	5.000%	2,460,000	2,703,250	2,460,000	2,703,250
2029	2030	0	0	0.000%	0	0	60,125	60,125	5.000%	2,405,000	2,525,250	2,405,000	2,525,250
2030	2031	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2031	2032	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2032	2033	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
2033	2034	0	0	0.000%	0	0	0	0	0.000%	0	0	0	0
		$47,925	$47,925		$2,120,000	$2,215,850	$6,632,375	$6,632,375		$35,610,000	$48,874,750	$37,730,000	$51,090,600

The PFM Group
Financial & Investment Advisors

BEFORE ADDITIONAL BONDING 1
with Statutory T.V. projection at time of P.Q.

SCHOOL DISTRICT OF THE CITY OF EAST LANSING
COUNTIES OF INGHAM AND CLINTON, STATE OF MICHIGAN
Schedule of Estimated Millage Needed to Retire Bonded Debt

Computed Mills at time of last new money bond > n/a

Notes:	Collection Cycle	2016 Levy	5.205
	July Levy: 100%	NonQual Levy	0.000
		Total Levy	5.205

Taxable Value Growth History			
2011	$1,042,937,353		
2012	1,007,398,645	-3.41%	
2013	997,246,548	-1.01%	
2014	1,015,686,256	1.85%	
2015	1,045,947,561	2.98%	Debt/T.V.[2]
2016	1,055,475,640	0.91%	3.57%

5 Year Historical Average:	0.26%
20 Year Historical Average:	2.51%

TOTAL INTEREST COST	
Current Interest Bonds	$13,360,600
School Bond Loan Fund	0
Total Interest Cost	$13,360,600

Next Borrowing:	n/a
Last SBLF Borrowing:	n/a
Last SBLF Repayment:	n/a
Mandatory Repayment Date:	n/a

Tax Year	Payment Year	Existing Debt $37,730,000	2.00% Delinquency Allowance	Adjustments	(Use) of Funds on Hand $272,263	Net Existing Debt	Projected Tax Base [1]	Growth Rate	Mills Needed All Debt	Mills to be Levied All Debt	SCHOOL BOND LOAN FUND ACTIVITY: 1st Balance as of Jul 1 F/Y Beg. Balance	(Borrowed) Repaid	Accrued Interest During Year	SBLF Int. Rate 5.000% Tax Yr. End Balance	Net District Payments $50,928,212
2016	2017	$5,414,100	$109,875	$0	($30,224)	$5,493,751	$1,055,475,640	0.91%	5.205	5.205	$0	$0	($0)	$0	$5,493,751
2017	2018	5,316,500		0	(144,731)	5,171,769	1,058,270,742	0.26%	4.887	4.887	0	(0)	0	0	5,171,769
2018	2019	4,066,500		0	(97,308)	3,969,192	1,061,073,246	0.26%	3.741	3.741	0	0	0	0	3,969,192
2019	2020	3,964,500			0	3,964,500	1,063,883,172	0.26%	3.726	3.726	0	0	0	0	3,964,500
2020	2021	3,856,250			0	3,856,250	1,066,700,539	0.26%	3.615	3.615	0	0	0	0	3,856,250
2021	2022	3,742,000			0	3,742,000	1,069,525,367	0.26%	3.499	3.499	0	0	0	0	3,742,000
2022	2023	3,632,000			0	3,632,000	1,096,339,444	2.51%	3.313	3.313	0	0	0	0	3,632,000
2023	2024	3,486,000			0	3,486,000	1,123,825,776	2.51%	3.102	3.102	0	0	0	0	3,486,000
2024	2025	3,340,750			0	3,340,750	1,152,001,219	2.51%	2.900	2.900	0	0	0	0	3,340,750
2025	2026	3,171,250			0	3,171,250	1,180,883,048	2.51%	2.685	2.685	0	0	0	0	3,171,250
2026	2027	2,998,750			0	2,998,750	1,210,488,974	2.51%	2.477	2.477	0	0	0	0	2,998,750
2027	2028	2,873,500			0	2,873,500	1,240,837,150	2.51%	2.316	2.316	0	0	0	0	2,873,500
2028	2029	2,703,250			0	2,703,250	1,271,946,186	2.51%	2.125	2.125	0	0	0	0	2,703,250
2029	2030	2,525,250			0	2,525,250	1,303,835,156	2.51%	1.937	1.937	0	0	0	0	2,525,250
2030	2031	0			0	0	1,336,523,615	2.51%	0.000	0.000	0	(0)	0	0	0
2031	2032	0			0	0	1,370,031,606	2.51%	0.000	0.000	0	0	0	0	0
2032	2033	0			0	0	1,404,379,676	2.51%	0.000	0.000	0	0	0	0	0
2033	2034	0			0	0	1,439,588,887	2.51%	0.000	0.000	0	0	0	0	0
2034	2035	0			0	0	1,475,680,829	2.51%	0.000	0.000	0	0	0	0	0
2035	2036	0			0	0	1,512,677,632	2.51%	0.000	0.000	0	0	0	0	0
2036	2037	0			0	0	1,550,601,981	2.51%	0.000	0.000	0	0	0	0	0
2037	2038	0			0	0	1,589,477,133	2.51%	0.000	0.000	0	0	0	0	0
2038	2039	0			0	0	1,629,326,923	2.51%	0.000	0.000	0	0	0	0	0
2039	2040	0			0	0	1,670,175,788	2.51%	0.000	0.000	0	0	0	0	0
2052	2053						2,304,430,047	2.51%	0.000	0.000	0	0	0	0	0
		$51,090,600	$109,875	$0	($272,263)	$50,928,212									$50,928,212

[1] Includes $0 of equivalent IFT valuations & less DDA/TIFA debt captures of $0 for 2016.

ConEarn 2017 PQJan17v3 | **$58,830,000** | Average Life = 1.37 years

GMB project costs
1/3/17

SCHOOL DISTRICT OF THE CITY OF EAST LANSING
COUNTIES OF INGHAM AND CLINTON, STATE OF MICHIGAN
PROPOSED 2017 SCHOOL BUILDING AND SITE BONDS
(GENERAL OBLIGATION - UNLIMITED TAX)

SCHEDULE OF ESTIMATED CONSTRUCTION FUND EARNINGS

	EXPENDITURE ACTIVITY					Construction		Projected
Date	Construction Projects	Other Fees and Costs	Totals	Month	Payout %	Fund Balance	Interest Rate	Interest Earned
Jul 17						$58,830,000		
Jul 17	$1,726,955	$833,847	$2,560,801	1	4.30%	56,269,199	0.90%	$42,202
Aug 17	1,726,955		1,726,955	2	7.20%	54,584,446	0.90%	40,938
Sep 17	1,726,955		1,726,955	3	10.10%	52,898,430	0.90%	39,674
Oct 17	1,726,955		1,726,955	4	13.00%	51,211,149	0.90%	38,408
Nov 17	1,726,955		1,726,955	5	15.90%	49,522,603	0.90%	37,142
Dec 17	1,726,955		1,726,955	6	18.80%	47,832,790	0.90%	35,875
Jan 18	1,726,955		1,726,955	7	21.70%	46,141,710	0.90%	34,606
Feb 18	1,726,955		1,726,955	8	24.60%	44,449,362	0.90%	33,337
Mar 18	1,726,955		1,726,955	9	27.50%	42,755,745	0.90%	32,067
Apr 18	1,726,955		1,726,955	10	30.40%	41,060,857	0.90%	30,796
May 18	1,726,955		1,726,955	11	33.30%	39,364,698	0.90%	29,524
Jun 18	1,726,955		1,726,955	12	36.20%	37,667,267	0.90%	28,250
Jul 18	1,726,955		1,726,955	13	39.10%	35,968,563	0.90%	26,976
Aug 18	1,726,955		1,726,955	14	42.00%	34,268,585	0.90%	25,701
Sep 18	1,726,955		1,726,955	15	44.90%	32,567,332	0.90%	24,425
Oct 18	1,726,955		1,726,955	16	47.80%	30,864,803	0.90%	23,149
Nov 18	1,726,955		1,726,955	17	50.70%	29,160,997	0.90%	21,871
Dec 18	1,726,955		1,726,955	18	53.60%	27,455,913	0.90%	20,592
Jan 19	1,726,955		1,726,955	19	56.50%	25,749,550	0.90%	19,312
Feb 19	1,726,955		1,726,955	20	59.40%	24,041,908	0.90%	18,031
Mar 19	1,726,955		1,726,955	21	62.30%	22,332,985	0.90%	16,750
Apr 19	1,726,955		1,726,955	22	65.20%	20,622,780	0.90%	15,467
May 19	1,726,955		1,726,955	23	68.10%	18,911,293	0.90%	14,183
Jun 19	1,726,955		1,726,955	24	71.00%	17,198,522	0.90%	12,899
Jul 19	1,726,955		1,726,955	25	73.90%	15,484,466	0.90%	11,613
Aug 19	1,726,955		1,726,955	26	76.80%	13,769,125	0.90%	10,327
Sep 19	1,726,955		1,726,955	27	79.70%	12,052,497	0.90%	9,039
Oct 19	1,726,955		1,726,955	28	82.60%	10,334,582	0.90%	7,751
Nov 19	1,726,955		1,726,955	29	85.50%	8,615,378	0.90%	6,462
Dec 19	1,726,955		1,726,955	30	88.40%	6,894,885	0.90%	5,171
Jan 20	1,726,955		1,726,955	31	91.30%	5,173,102	0.90%	3,880
Feb 20	1,726,955		1,726,955	32	94.20%	3,450,027	0.90%	2,588
Mar 20	1,726,955		1,726,955	33	97.10%	1,725,660	0.90%	1,294
Apr 20	1,726,955		1,726,955	34	100.00%	(0)	0.90%	(0)
May 20	0		0	35	100.00%	(0)	0.90%	(0)
	$58,716,454	$833,847	$59,550,301					$720,301

Breakdown of Estimated Other Fees and Costs

OTHER FEES:			OTHER COSTS:		
Municipal Advisory Council Fee		$400	Election, Notice of Sale, Bond Printing, etc.		$37,794
Auditor's Subsequent Events Review		500	Capitalized Interest:		0
Bond Attorney		69,897	Bond Discount	1.000%	588,300
Construction Manager (Incl. in Construction Costs)		500	Bond Insurance		0
Financial Consultant		63,856	Paying Agent		500
Qualification of Bonds		15,600	TOTAL OTHER COSTS:		$626,594
Other:			**TOTAL OTHER FEES AND COSTS**		$833,847
Credit Ratings	$52,000		Total Project Cost		$59,550,301
Official Statement Printing & Mailing	3,500		Less Original Issue Premium		0
Treasury Filing	1,000	56,500	Less Construction Fund Earnings		720,301
TOTAL OTHER FEES		$207,253	**AMOUNT OF BOND ISSUE**		**$58,830,000.00**
			Estimated Construction Fund Deposit		$57,996,153

PFM Financial Advisors LLC
Ann Arbor, Michigan 48108
Phone (734) 994-9700 Fax (734) 994-9710

RJN
1/3/17

ConEarn 2020 PQJan17v3 | **$34,940,000** | Average Life = 0.66 years

GMB project costs
1/3/17

SCHOOL DISTRICT OF THE CITY OF EAST LANSING
COUNTIES OF INGHAM AND CLINTON, STATE OF MICHIGAN
PROPOSED 2020 SCHOOL BUILDING AND SITE BONDS
(GENERAL OBLIGATION - UNLIMITED TAX)

SCHEDULE OF ESTIMATED CONSTRUCTION FUND EARNINGS

	EXPENDITURE ACTIVITY					Construction		Projected
	Construction	Other Fees				Fund	Interest	Interest
Date	Projects	and Costs	Totals	Month	Payout %	Balance	Rate	Earned
May 20						$34,940,000		
May 20	$2,032,414	$503,845	$2,536,259	1	7.24%	32,403,741	0.50%	$13,502
Jun 20	2,032,414		2,032,414	2	13.03%	30,384,829	0.50%	12,660
Jul 20	2,032,414		2,032,414	3	18.83%	28,365,075	0.50%	11,819
Aug 20	2,032,414		2,032,414	4	24.63%	26,344,480	0.50%	10,977
Sep 20	2,032,414		2,032,414	5	30.43%	24,323,043	0.50%	10,135
Oct 20	2,032,414		2,032,414	6	36.22%	22,300,763	0.50%	9,292
Nov 20	2,032,414		2,032,414	7	42.02%	20,277,641	0.50%	8,449
Dec 20	2,032,414		2,032,414	8	47.82%	18,253,676	0.50%	7,606
Jan 21	2,032,414		2,032,414	9	53.62%	16,228,868	0.50%	6,762
Feb 21	2,032,414		2,032,414	10	59.42%	14,203,216	0.50%	5,918
Mar 21	2,032,414		2,032,414	11	65.21%	12,176,720	0.50%	5,074
Apr 21	2,032,414		2,032,414	12	71.01%	10,149,380	0.50%	4,229
May 21	2,032,414		2,032,414	13	76.81%	8,121,195	0.50%	3,384
Jun 21	2,032,414		2,032,414	14	82.61%	6,092,164	0.50%	2,538
Jul 21	2,032,414		2,032,414	15	88.40%	4,062,289	0.50%	1,693
Aug 21	2,032,414		2,032,414	16	94.20%	2,031,568	0.50%	846
Sep 21	2,032,414		2,032,414	17	100.00%	0	0.50%	0
Oct 21	0		0	18	100.00%	0	0.50%	0
Nov 21	0		0	19	100.00%	0	0.50%	0
Dec 21	0		0	20	100.00%	0	0.50%	0
Jan 22	0		0	21	100.00%	0	0.50%	0
Feb 22	0		0	22	100.00%	0	0.50%	0
Mar 22	0		0	23	100.00%	0	0.50%	0
Apr 22	0		0	24	100.00%	0	0.50%	0
May 22	0		0	25	100.00%	0	0.50%	0
Jun 22	0		0	26	100.00%	0	0.50%	0
Jul 22	0		0	27	100.00%	0	0.50%	0
Aug 22	0		0	28	100.00%	0	0.50%	0
Sep 22	0		0	29	100.00%	0	0.50%	0
	$34,551,038	$503,845	$35,054,883					$114,883

Breakdown of Estimated Other Fees and Costs

OTHER FEES:			OTHER COSTS:		
Municipal Advisory Council Fee		$400	Notice of Sale, Bond Printing, etc.		$7,306
Auditor's Subsequent Events Review		500	Capitalized Interest:		0
Bond Attorney		46,890	Bond Discount	1.000%	349,400
Construction Manager (Incl. in Construction Costs)		0	Bond Insurance		0
Financial Consultant		43,549	Other		0
Qualification of Bonds		10,800	TOTAL OTHER COSTS:		$356,706
Other:			**TOTAL OTHER FEES AND COSTS**		$503,845
Credit Ratings	$40,000				
Official Statement Printing & Mailing	4,000		Total Project Cost		$35,054,883
Treasury Filing	1,000	45,000	Less Construction Fund Earnings		114,883
TOTAL OTHER FEES		$147,139	**AMOUNT OF BOND ISSUE**		**$34,940,000.00**
			Estimated Construction Fund Deposit		$34,436,155

PFM Financial Advisors LLC
555 Briarwood Circle, Suite 333
Ann Arbor, Michigan 48108
Phone (734) 994-9700 Fax (734) 994-9710

RJN
1/3/17

PQJan17v3 with Statutory T.V. projection at time of P.Q. & est. SBLF loan rate of 5%

$93,770,000
SCHOOL DISTRICT OF THE CITY OF EAST LANSING
COUNTIES OF INGHAM AND CLINTON, STATE OF MICHIGAN
2017 AND 2018 SCHOOL BUILDING AND SITE BONDS
(GENERAL OBLIGATION - UNLIMITED TAX)

	Series 2017	Series 2020			
Amount:	$58,830,000	$34,940,000		120% Project Useful Life	Average Life
NIC:	4.50%	4.75%	Series 2017	43.37	16.01
Dated:	Jun 30, 17	May 1, 20	Series 2020	45.32	14.79
Delivered:	Jun 30, 17	May 1, 20	Wtd. Avg.	44.09	15.56
1:5 Ratio:	TRUE	TRUE			
Debt/(TV+IFT):	8.79%	11.37%		Avg. Int.All Series	
Bond Term:	24 yrs., 10 mos.	25 yrs., 0 mos.		4.59%	
Capitalized Int.	$0.00	$0.00			

Taxable Value Growth History		
2011	$1,042,937,353	
2012	1,007,398,645	(3.41%)
2013	997,246,548	(1.01%)
2014	1,015,686,256	1.85%
2015	1,045,947,561	2.98%
2016	1,055,475,640	0.91%

July Levy: 100%	
Proposed Levy	7.000
Current Levy	5.205
Net Increase	1.795

TOTAL INTEREST COST	
Current Interest Bonds	$66,929,916
School Bond Loan Fund	10,565,989
Less SBLF Interest on Prior Bonds	0
Total Interest Cost	$77,495,906

Interest Factor
0.826

Next SLRF Borrowing: May 2021
Last SLRF Borrowing: 2030
Last SLRF Repayment: 2039 Mandatory Repayment: 2051

Schedule of Estimated Millage Needed to Retire Bonded Debt

5 Year Average Growth Rate:	0.26%
20 Year Average Growth Rate:	2.51%

SCHOOL LOAN REVOLVING FUND ACTIVITY

1st Balance as of 06/30/16	SBLF Int. Rate
Jul 1	5.000%

Tax Year	F/Y End 6-30,	Existing Debt $34,160,000	Series 2017 Interest Due Nov 1	Series 2017 Interest Due May 1	Interest Rate	Series 2017 Principal Due May 1	Series 2017 Total P&I	Series 2020 Principal Due May 1	Series 2020 Total P&I	2.00% Delinquency Allowance	(Use) of Funds on Hand $272,263	Net Existing Proposed Debt	Projected Txbl Value [2]	Growth Rate	Mills Needed ALL SERIES Avg 4.45	Mills Needed All Debt	Mills Levied All Debt	F/Y Beg. Balance	(Borrowed) Repaid	Accrued Interest During Year	Tax Yr. End Balance	Net District Payments $222,232,400
2016	2017	$5,414,100	$0	$0	0.000%	$0	$0	$0	$0	$109,875	($30,224)	$5,493,751	$1,055,475,640	0.91%		5.205	5.205	$0	$0	$0	$0	$5,493,751
2017	2018	5,316,500	889,804 [1]	1,323,675	4.500%	0	2,213,479	0	0	38,283	(160,366)	7,407,895	1,058,270,742	0.26%	2.11	7.000	7.000	0	(0)	0	0	7,407,895
2018	2019	4,066,500	1,323,675	1,323,675	4.500%	760,000	3,407,350	0	0		(46,337)	7,427,513	1,061,073,246	0.26%	3.26	7.000	7.000	0	0	0	0	7,427,513
2019	2020	3,964,500	1,306,575	1,306,575	4.500%	900,000	3,513,150	0	0		(30,468)	7,447,182	1,063,883,172	0.26%	3.27	7.000	7.000	0	0	0	0	7,447,182
2020	2021	3,856,250	1,286,325	1,286,325	4.500%	900,000	3,472,650	650,000	2,309,650		(4,867)	9,633,683	1,066,700,539	0.26%	3.38	9.031	7.000	0	(2,166,779)	17,809	2,184,588	7,466,904
2021	2022	3,742,000	1,266,075	1,266,075	4.500%	1,055,000	3,587,150	825,000	2,453,775		0	9,782,925	1,069,525,367	0.26%	3.50	9.147	7.000	2,184,588	(2,296,247)	128,899	4,609,735	7,486,678
2022	2023	3,632,000	1,242,338	1,242,338	4.500%	1,210,000	3,694,675	885,000	2,474,588		0	9,801,263	1,096,339,444	2.51%	3.69	8.940	7.000	4,609,735	(2,126,886)	248,812	6,985,434	7,674,376
2023	2024	3,486,000	1,215,113	1,215,113	4.500%	1,410,000	3,840,225	925,000	2,472,550		0	9,798,775	1,123,825,776	2.51%	3.90	8.719	7.000	6,985,434	(1,931,995)	366,133	9,283,562	7,866,780
2024	2025	3,340,750	1,183,388	1,183,388	4.500%	1,620,000	3,986,775	970,000	2,473,613		0	9,801,138	1,152,001,219	2.51%	4.10	8.508	7.000	9,283,562	(1,737,129)	478,842	11,499,533	8,064,009
2025	2026	3,171,250	1,146,938	1,146,938	4.500%	1,865,000	4,158,875	1,000,000	2,457,538		0	9,787,663	1,180,883,048	2.51%	4.31	8.288	7.000	11,499,533	(1,521,481)	588,121	13,609,135	8,266,181
2026	2027	2,998,750	1,104,975	1,104,975	4.500%	2,120,000	4,329,950	1,045,000	2,455,038		0	9,783,738	1,210,488,974	2.51%	4.52	8.082	7.000	13,609,135	(1,310,315)	691,786	15,611,235	8,473,423
2027	2028	2,873,500	1,057,275	1,057,275	4.500%	2,340,000	4,454,550	1,100,000	2,460,400		0	9,788,450	1,240,837,150	2.51%	4.68	7.889	7.000	15,611,235	(1,102,590)	790,625	17,504,451	8,685,860
2028	2029	2,703,250	1,004,625	1,004,625	4.500%	2,500,000	4,509,250	1,145,000	2,453,150		0	9,665,650	1,271,946,186	2.51%	4.87	7.599	7.000	17,504,451	(762,027)	881,281	19,147,758	8,903,623
2029	2030	2,525,250	948,375	948,375	4.500%	2,700,000	4,596,750	1,205,000	2,458,763		0	9,580,763	1,303,835,156	2.51%	5.06	7.348	7.000	19,147,758	(453,916)	961,399	20,563,074	9,126,846
2030	2031	0	887,625	887,625	4.500%	2,750,000	4,525,250	1,425,000	2,621,525		0	7,146,775	1,336,523,615	2.51%	7.00	5.347	7.000	20,563,074	2,208,890	1,010,165	19,364,349	9,355,665
2031	2032	0	825,750	825,750	4.500%	2,870,000	4,521,500	1,490,000	2,618,838		0	7,140,338	1,370,031,606	2.51%	7.00	5.212	7.000	19,364,349	2,449,884	947,999	17,862,464	9,590,221
2032	2033	0	761,175	761,175	4.500%	3,000,000	4,522,350	1,565,000	2,623,063		0	7,145,413	1,404,379,676	2.51%	7.00	5.088	7.000	17,862,464	2,685,245	869,530	16,046,749	9,830,658
2033	2034	0	693,675	693,675	4.500%	3,135,000	4,522,350	1,635,000	2,618,725		0	7,141,075	1,439,588,887	2.51%	7.00	4.960	7.000	16,046,749	2,936,047	777,218	13,887,920	10,077,122
2034	2035	0	623,138	623,138	4.500%	3,275,000	4,521,275	1,700,000	2,606,063		0	7,127,338	1,475,680,829	2.51%	7.00	4.830	7.000	13,887,920	3,202,428	666,995	11,352,486	10,329,766
2035	2036	0	549,450	549,450	4.500%	3,400,000	4,498,900	1,715,000	2,540,313		0	7,039,213	1,512,677,632	2.51%	7.00	4.653	7.000	11,352,486	3,549,531	537,748	8,340,703	10,588,743
2036	2037	0	472,950	472,950	4.500%	3,475,000	4,420,900	1,730,000	2,473,850		0	6,894,750	1,550,601,981	2.51%	7.00	4.446	7.000	8,340,703	3,959,464	382,897	4,764,136	10,854,214
2037	2038	0	394,763	394,763	4.500%	3,490,000	4,279,525	1,730,000	2,391,675		0	6,671,200	1,589,477,133	2.51%	7.00	4.197	7.000	4,764,136	4,455,140	200,133	509,129	11,126,340
2038	2039	0	316,238	316,238	4.500%	3,500,000	4,132,475	1,730,000	2,309,500		0	6,441,975	1,629,326,923	2.51%	4.28	3.954	4.278	509,129	528,725	19,596	0	6,970,700
2039	2040	0	237,488	237,488	4.500%	3,515,000	3,989,975	1,740,000	2,237,325		0	6,227,300	1,670,175,788	2.51%	3.73	3.729	3.729	0	0	0	0	6,227,300
2040	2041	0	158,400	158,400	4.500%	3,520,000	3,836,800	1,740,000	2,154,675		0	5,991,475	1,712,048,775	2.51%	3.50	3.500	3.500	0	0	0	0	5,991,475
2041	2042	0	79,200	79,200	4.500%	3,520,000	3,678,400	1,740,000	2,072,025		0	5,750,425	1,754,971,560	2.51%	3.28	3.277	3.277	0	0	0	0	5,750,425
2042	2043	0	0	0	4.500%	0	0	1,750,000	1,999,375		0	1,999,375	1,798,970,462	2.51%	1.11	1.111	1.111	0	0	0	0	1,999,375
2043	2044	0	0	0	4.500%	0	0	1,750,000	1,916,250		0	1,916,250	1,844,072,461	2.51%	1.04	1.039	1.039	0	0	0	0	1,916,250
2044	2045	0	0	0	4.500%	0	0	1,750,000	1,833,125		0	1,833,125	1,890,305,212	2.51%	0.97	0.970	0.970	0	0	0	0	1,833,125
2045	2046	0	0	0	4.500%	0	0	0	0		0	0	1,937,697,065	2.51%		0.000	0.000	0	0	0	0	0
		$51,090,600	$20,975,329	$21,409,200		$58,830,000	$101,214,529	$34,940,000	$59,485,388	$148,158	($272,263)	$211,666,411										$222,232,400

RJN/SM

[1] 4 mos, 1 days interest.
[2] Includes $0 of Equivalent IFT Valuations and Less DDA/TIFA Debt Captures of $0 .

Enrollment Projections

East Lansing Public Schools **33010**

Complete this form after acquiring an enrollment projection report from an approved enrollment projection provider. Official enrollment projections should be based on the most recent fall membership count.

Prepared By Brad Hemmes

Source Stanfred Consultants

Explanation of Method Selected

1.5 Most Likely Times 3 Plus High, Divided by 4

Subtotals by Grade:

Grade *1*	Preceding 5-Year Enrollment *2*	*(Year)* Current Enrollment *3*	*(Year)* Projected 5-Year Enrollment *4*	*(Col 4 - Col 3) / Col 3* Projected Enrollment Change (%) *5*	Most Likely *6*
K		286	282	-1.40%	280
1		245	259	5.51%	254
2		281	265	-5.78%	259
3		259	243	-6.08%	237
4		276	257	-6.79%	250
5		280	265	-5.54%	257
6		283	245	-13.34%	240
7		278	292	5.04%	285
8		280	280	0.09%	273
9		265	301	13.40%	292
10		274	300	9.58%	292
11		274	292	6.57%	283
12		268	262	-2.15%	253
Total	**3,406**	**3,549**	**3,543**	**-0.18%**	**3455**

Subtotals by School District's Grade Configuration: *

K-5th		1,627	1,571	-3.44%
6th-8th		841	817	-2.85%
9th-12th		1,081	1,155	-0.18%
K-12th		3,549	3,543	6.84%
General Ed Total	**0**	**3,549**	**3,543**	**-0.18%**

**Examples of possible grade configurations*

K - 5	K - 8	K - 12
6 - 8	5 - 6	5 - 8
9 - 12	10 - 12	7 - 12

Non-general ed student count should not be included in the general ed student count listed above unless discussed with and determined by your enrollment service provider.

Project Sheet

Donley Elementary School **1**

Description of Proposal/Series 1	Build, equip and furnish a new, replacement elementary on the existing site.
Description of Proposal/Series 2	
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Demolish existing facility, develop playgrounds, play fields, walks, drives, landscape, signage, building and site utilities

Construction Cost Per Square Foot

New Construction Square Ft	50,803	**Cost per Sq Ft**	$ 203
New Addition Square Ft.		**Cost per Sq Ft**	

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

The new facility will be asbestos free, and address ADA/Barrier Free requirements. Building materials and systems will be designed to be more efficient from an operational, energy usage and maintanance perspective.

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction	10,313,350			**10,313,350**
Remodeling	0			**0**
Construction Contingencies	1,222,135			**1,222,135**
Instructional Technology	254,015			**254,015**
Loose Furnishing/Equipment	508,030			**508,030**
Buses	0			**0**
Site Work	1,908,000			**1,908,000**
Site Acquisition	0			**0**
Architectural Fees and Costs	1,075,479			**1,075,479**
CM Fees and Costs	806,609			**806,609**
Estimated Costs	**16,087,618**	**0**	**0**	**16,087,618**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature | Date: 1/9/2017 | Firm Name and License Number: GMB Architecture + Engineering #55408

Printed Name: Brad Hemmes | E-mail Address: bradh@gmb.com | Phone Number: (616) 796-0200

	Area	Unit	Unit Cost	Subtotals	Bond App. Amounts	Total
Donley Elementary - 2 Section						
New Construction	50,803	SF	$ 196	$ 9,957,388		
Geo-Piers for Structure Support	-	LS	$ 300,000	$ -		
New Construction Total					*$ 9,957,388*	
Site Work	19	Acre	$ 52,632	$ 1,000,000		
Play Fields	1	LS	$ 250,000	$ 250,000		
Underground Storm Detention	1	LS	$ 250,000	$ 250,000		
Site Utilities Upgrade	1	LS	$ 150,000	$ 150,000		
Site Work Total					*$ 1,650,000*	
Asbestos Abatement	43,000	SF	$ 1.50	$ 64,500		
Building Demolition	43,000	SF	$ 4.50	$ 193,500		
Demolition Total					*$ 258,000*	
Subtotal (Trade Cost)			**Total**	**$ 11,865,388**		
Escalation	*1*		*3.00%*	*$ 355,962*	*$ 355,962*	
Trade Cost Total				**$ 12,221,350**		
Contingency	*10.00%*			*$ 1,222,135*	*$ 1,222,135*	
Subtotal (Construction)				**$ 13,443,485**		
Soft Costs						
CM Fees	*6.00%*			*$ 806,609*	*$ 806,609*	
AE Fees	*8.00%*			*$ 1,075,479*	*$ 1,075,479*	
Subtotal (Construction, CM & AE Fees)				**$ 15,325,572**		
Instructional Technology	50,803	SF	$ 5.00	**$ 254,015**	*$ 254,015*	
FFE	50,803	SF	$ 10.00	**$ 508,030**	*$ 508,030*	
IT & FFE				**$ 762,045**		
Total					*$ 16,087,617*	**$ 16,087,617**

Building Utilization

Donley Elementary School **Project No. [n] 1**

Current Grade Structure	K-5
Proposed Grade Structure	K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**13**		**290**
Total	**13**		**290**

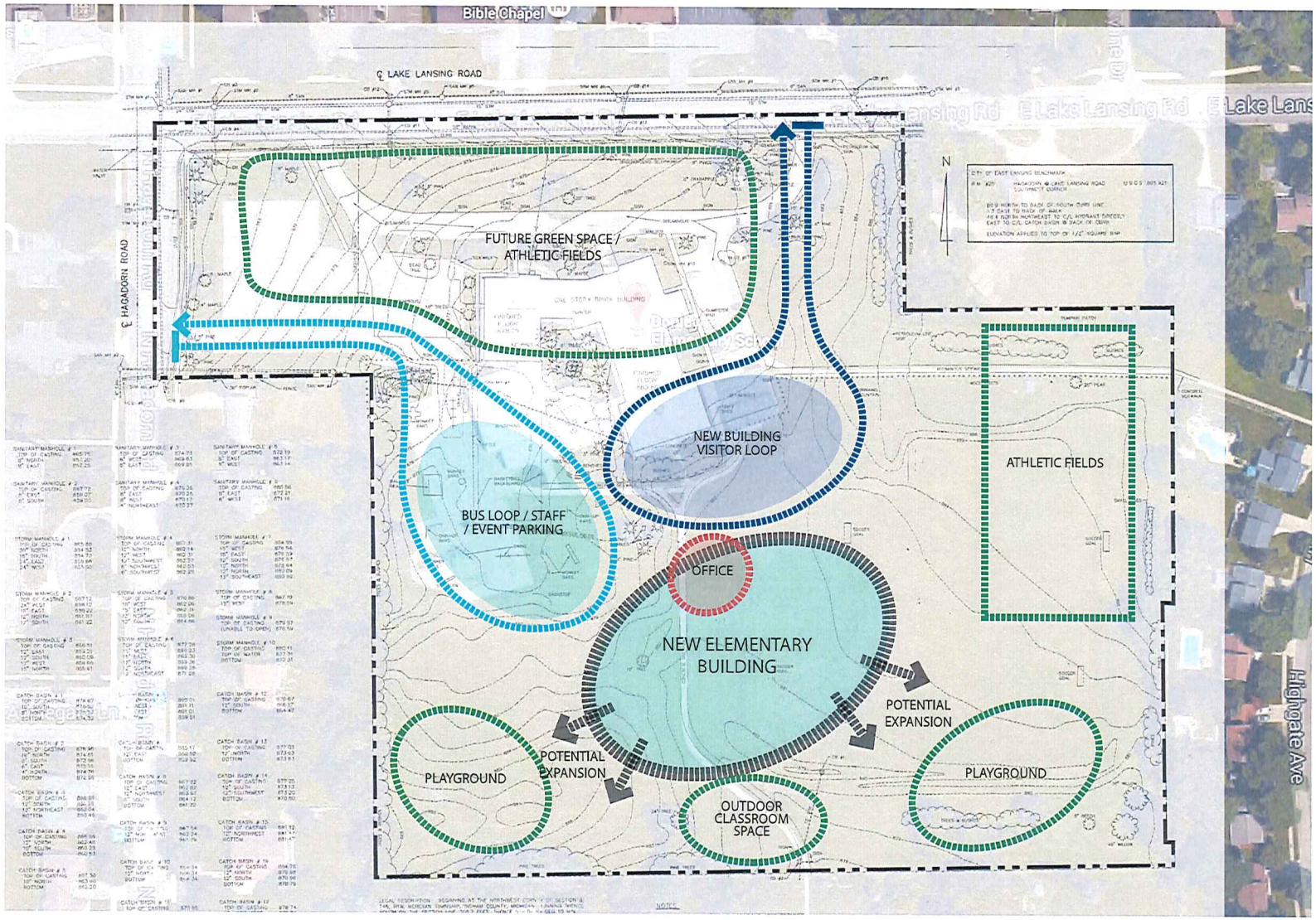
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**13**		**290**

Projected 5-Year Enrollment **283**

Utilization Percentage **98%**

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- PLAN FOR FUTURE GROWTH
- INCREASE SAFETY BY SEPARATING COMPETING VEHICULAR USES
- RELIEVE CONGESTION AND IMPACT ON ADJACENT ROADWAYS

POSSIBLE FUTURE EXPANSION

- CREATE A 'CAMPUS' ATMOSPHERE WITH 2 DESIGNATED ENTRY POINTS
- DEVELOP UNIFIED INTERNAL TRAFFIC FLOW BETWEEN BOTH SCHOOL BUILDINGS
- PROVIDE EXTENDED VISITOR LOOPS AT EACH BUILDING
- ALLOW FOR INTERNAL BUS TRAFFIC BETWEEN SCHOOLS
- RELOCATE OFFICE IN EXISTING BUILDING TO FACE INTERNAL SITE
- ORGANIZE PLAYGROUND ACTIVITIES IN EASILY MONITORED AREAS
- MAINTAIN AS MUCH GREEN SPACE AND SPORTS FIELD AREAS AS POSSIBLE
- ELIMINATE CURB CUT ON LAKE LANSING ROAD

GMB ae
ARCHITECTURE + ENGINEERING

East Lansing Public Schools
2017 BOND ISSUE
PRELIMINARY PROGRAM
New Elementary Facility

December 21, 2016

K - 5TH Grade Elementary School - 2 Section + DK
REVISION 4

290 STUDENTS **DRAFT**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CLASSROOMS					
K-2 Classrooms	7	7	1200	8400	
3-5 Classrooms	6	6	990	5940	
SE / Title	2		720	1440	
ELL	1		400	400	
CLASSROOM TOTAL					**16180**
SCIENCE/STEM					
Classroom/Laboratory	1		990	990	
Prep./Storage Area	1		100	100	
SCIENCE TOTAL					**1090**
STAFF ROOMS					
Planning Rooms	1		500	500	
STAFF ROOMS TOTAL					**500**
MEDIA CENTER					
Resource Center	1		2000	2000	
Office	1		120	120	
Workroom	1		120	120	
A/V / Media Storage	1		200	200	
Technology Server Room	1		150	150	
MEDIA CENTER TOTAL					**2590**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
ADMINISTRATION					
GENERAL OFFICE/ COUNSELING					
Principal	1		165	165	
General Office/ Reception/Records	1		550	550	
Work Room	1		110	110	
Copy Center/Mail Room	1		150	150	
Health Room	1		175	175	
Unisex Toilet					
Counselor	1		140	140	
Itinerant Offices	2		120	240	
In-House Room	0		200	0	
Conference Room	1		200	200	
Waiting Area	1		300	300	
ADMINISTRATION TOTAL					**2030**
ART					
Classroom	1		990	990	
Kiln	1		100	100	
Storage	1		100	100	
ART TOTAL					**1190**
MUSIC					
Music Room	1		990	990	
Office/Library	1		150	150	
Storage	1		100	100	
MUSIC TOTAL					**1240**

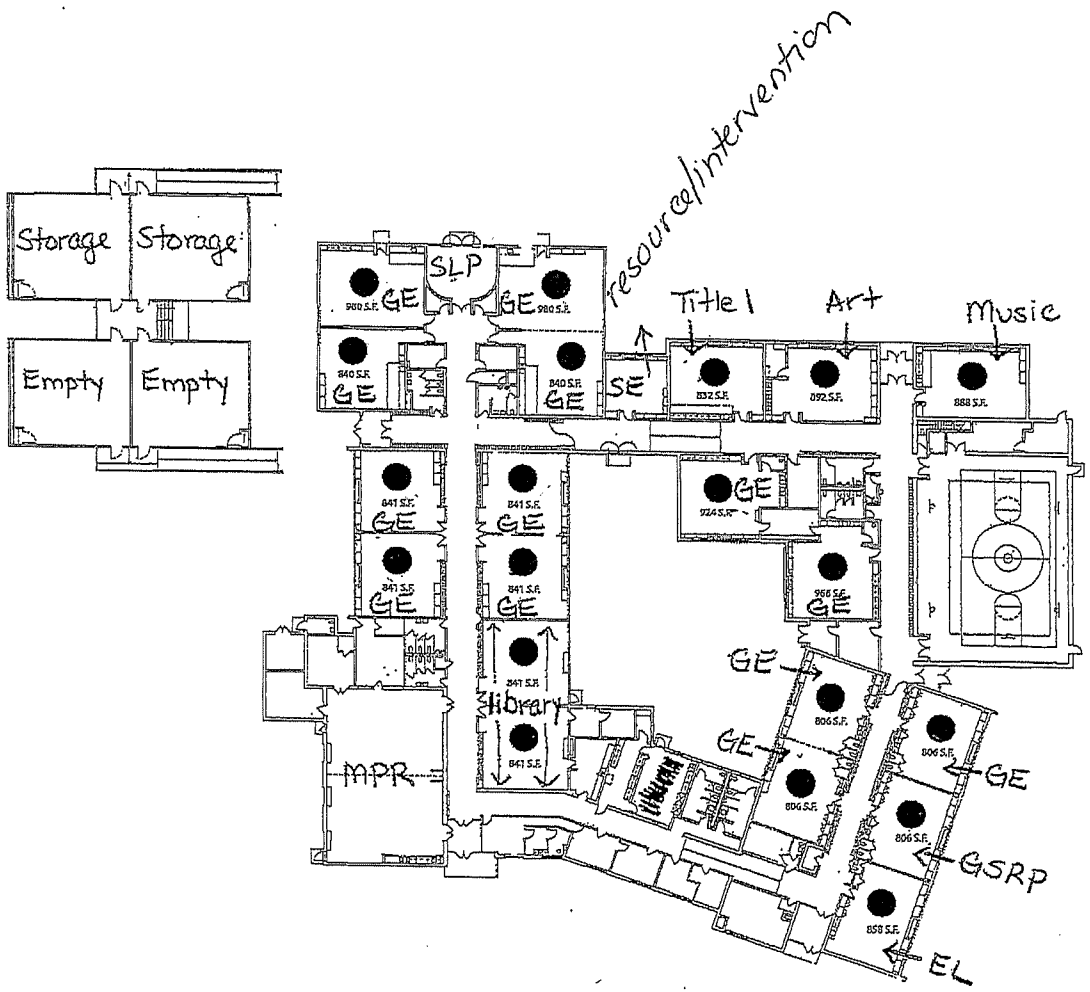
SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CAFETERIA					
Seating Area for 200	1		2800	2800	
Table / Chair Storage	1		300	300	
CAFETERIA TOTAL					**3100**
SM. GROUP INSTRUCTION	2		250	500	
SMALL GROUP TOTAL					**500**
KITCHEN (Satellite Warming)					
Kitchen/Serving	1		1000	1000	
Dry/Freeze./Ref. Storage	1		600	600	
Office	1		120	120	
KITCHEN TOTAL					**1720**
PHYSICAL EDUCATION					
Gymnasium	1		5000	5000	
P.E. Storage	1		200	200	
P.E. Office/Toilet	1		150	150	
PHYSICAL EDUCATION TOTAL					**5350**
			Building Sub-Total		**35490**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
MISCELLANEOUS					
Building Storage	1		200	200	
Staff Rest Rooms	2		65	130	
Central Receiving / Loading Dock	1		200	200	
Central Stor. / Maint.	1		300	300	
Boiler Room	1		900	900	
Electrical Room	1		200	200	
Air Handling Rooms	2		600	1200	
Janitors Closets	2		25	50	
Custodial Office	1		120	120	
Rest Rooms	3		300	900	
MISCELLANEOUS TOTAL					**4200**
BUILDING/MISCELLANEOUS SUB-TOTAL					**39690**
CIRCULATION/GROSSING FACTOR (28%)					**11113**
BUILDING TOTAL		13 Teachings Stations			**50803**

EL ≈ ESL

EAST LANSING PUBLIC SCHOOLS

Donley Elementary



SE/other · (2)

DK - 1
K - 2
1 - 2
2 - 2
3 - 2
4 - 2
5 - 2

(13) TG.

N

GMB ae
ARCHITECTURE + ENGINEERING

Project Sheet

Glencairn Elementary School **2**

Description of Proposal/Series 1	
Description of Proposal/Series 2	Build, equip and furnish a new, replacement elementary on the existing site.
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Demolish existing facility, develop playgrounds, play fields, walks, drives, landscape, signage, building and site utilities

Construction Cost Per Square Foot

New Construction Square Ft	50,803	**Cost per Sq Ft**	$ 224
New Addition Square Ft.		**Cost per Sq Ft**	

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

The new facility will be asbestos free, and address ADA/Barrier Free requirements. Building materials and systems will be designed to be more efficient from an operational, energy usage and maintanance perspective.

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction		11,361,610		**11,361,610**
Remodeling		0		**0**
Construction Contingencies		1,272,761		**1,272,761**
Instructional Technology		254,015		**254,015**
Loose Furnishing/Equipment		508,030		**508,030**
Buses		0		**0**
Site Work		1,366,000		**1,366,000**
Site Acquisition		0		**0**
Architectural Fees and Costs		1,120,030		**1,120,030**
CM Fees and Costs		840,022		**840,022**
Estimated Costs	**0**	**16,722,468**	**0**	**16,722,468**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	1/9/2017 Date	GMB Architecture + Engineering #55408 Firm Name and License Number
Brad Hemmes Printed Name	bradh@gmb.com E-mail Address	(616) 796-0200 Phone Number

	Area	Unit	Unit Cost	Subtotals	Bond App. Amounts	Total
Glencairn Elementary School - 2 Section						
New Construction	50,803	SF	$ 196	$ 9,957,388		
Geo-Piers for Structure Support	1	LS	$ 300,000	$ 300,000		
New Construction Total					*$ 10,257,388*	
Site Work	5.3	Acre	$ 94,340	$ 500,000		
Play Fields	1	LS	$ 250,000	$ 250,000		
Underground Storm Detention	1	LS	$ 250,000	$ 250,000		
Site Utilities Upgrade	1	LS	$ 150,000	$ 150,000		
Site Work Total					*$ 1,150,000*	
Asbestos Abatement	36,000	SF	$ 1.50	$ 54,000		
Building Demolition	36,000	SF	$ 4.50	$ 162,000		
Demolition Total					*$ 216,000*	
Subtotal (Trade Cost)				**$ 11,623,388**		
Escalation	*1*		*9.5%*	*$ 1,104,222*	*$ 1,104,222*	
Trade Cost Total				**$ 12,727,610**		
Contingency	*10.00%*			*$ 1,272,761*	*$ 1,272,761*	
Subtotal (Construction)				**$ 14,000,371**		
Soft Costs						
CM Fees	*6.00%*			*$ 840,022*	*$ 840,022*	
AE Fees	*8.00%*			*$ 1,120,030*	*$ 1,120,030*	
Subtotal (Construction, CM & AE Fees)				**$ 15,960,423**		
Instructional Technology	*50,803*	*SF*	*$ 5.00*	*$ 254,015*	*$ 254,015*	
FFE	*50,803*	*SF*	*$ 10.00*	*$ 508,030*	*$ 508,030*	
IT & FFE				**$ 762,045**		
Total					***$ 16,722,468***	***$ 16,722,468***

Building Utilization

Glencairn Elementary School **Project No. [n] 2**

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**

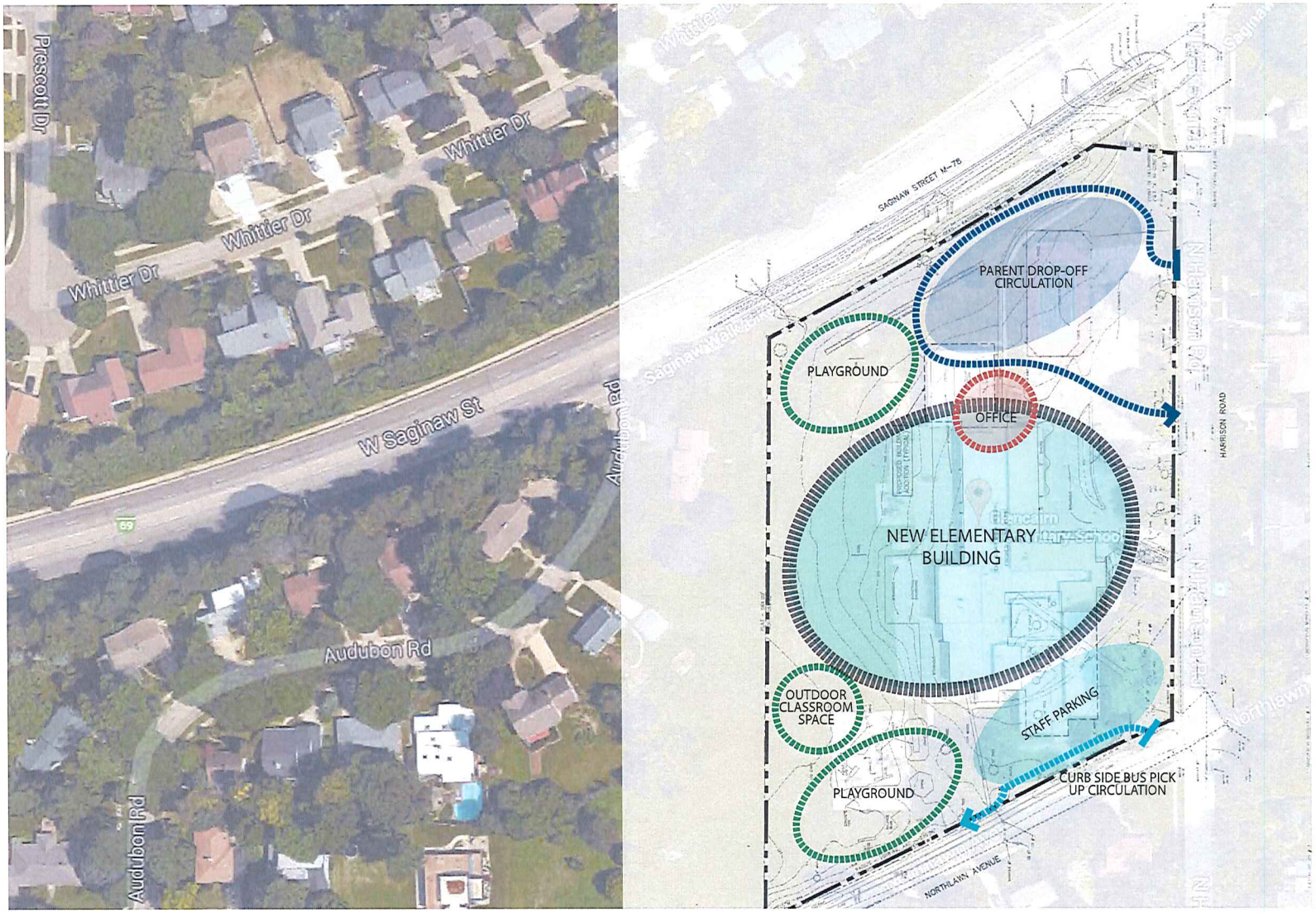
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**13**		**290**
Total	**13**		**290**

Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	6	20	120
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**12**		**270**

Projected 5-Year Enrollment **283**

Utilization Percentage **98%**
(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- RELIEVE TRAFFIC CONCERNS ON ADJACENT ROADWAYS
- IMPROVE PEDESTRIAN SAFETY
- CENTRALIZE PLAYGROUND EQUIPMENT FOR BETTER VISIBILITY
- IMPROVE / EXPAND PARKING

PRELIMINARY RECOMMENDATION

- PROVIDE SEPARATION BETWEEN BUS TRAFFIC AND PARENT/ VISITOR TRAFFIC. IMPROVE SAFETY
- MOVE BUSSES TO SOUTH SIDE OF BUILDING - PROVIDE CURBSIDE PICK UP IN LIEU OF DEDICATED BUS LOOP
- PROVIDE VISITOR / STUDENT PICK UP ALONG NORTHEAST
- MAINTAIN OFFICE IN CURRENT LOCATION
- EXPAND STAFF PARKING TO SOUTHWEST TO MAXIMIZE PARKING ADJACENT TO OFFICE FOR VISITOR / PARENTS
  - RELOCATE EXISTING PLAYGROUND EQUIPMENT NORTH, ADJACENT TO OTHER PLAYGROUND EQUIPMENT
- PROVIDE OUTDOOR CLASSROOM SPACE FOR STEM / LARGE GROUP LEARNING

GMB ae
ARCHITECTURE + ENGINEERING

East Lansing Public Schools
2017 BOND ISSUE
PRELIMINARY PROGRAM
New Elementary Facility

December 21, 2016

K - 5TH Grade Elementary School - 2 Section + DK
REVISION 4

290 STUDENTS

DRAFT

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CLASSROOMS					
K-2 Classrooms	7	7	1200	8400	
3-5 Classrooms	6	6	990	5940	
SE / Title	2		720	1440	
ELL	1		400	400	
CLASSROOM TOTAL					**16180**
SCIENCE/STEM					
Classroom/Laboratory	1		990	990	
Prep./Storage Area	1		100	100	
SCIENCE TOTAL					**1090**
STAFF ROOMS					
Planning Rooms	1		500	500	
STAFF ROOMS TOTAL					**500**
MEDIA CENTER					
Resource Center	1		2000	2000	
Office	1		120	120	
Workroom	1		120	120	
A/V / Media Storage	1		200	200	
Technology Server Room	1		150	150	
MEDIA CENTER TOTAL					**2590**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
ADMINISTRATION					
GENERAL OFFICE/ COUNSELING					
Principal	1		165	165	
General Office/ Reception/Records	1		550	550	
Work Room	1		110	110	
Copy Center/Mail Room	1		150	150	
Health Room	1		175	175	
Unisex Toilet					
Counselor	1		140	140	
Itinerant Offices	2		120	240	
In-House Room	0		200	0	
Conference Room	1		200	200	
Waiting Area	1		300	300	
ADMINISTRATION TOTAL					**2030**
ART					
Classroom	1		990	990	
Kiln	1		100	100	
Storage	1		100	100	
ART TOTAL					**1190**
MUSIC					
Music Room	1		990	990	
Office/Library	1		150	150	
Storage	1		100	100	
MUSIC TOTAL					**1240**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CAFETERIA					
Seating Area for 200	1		2800	2800	
Table / Chair Storage	1		300	300	
CAFETERIA TOTAL					**3100**
SM. GROUP INSTRUCTION	2		250	500	
SMALL GROUP TOTAL					**500**
KITCHEN (Satellite Warming)					
Kitchen/Serving	1		1000	1000	
Dry/Freeze./Ref. Storage	1		600	600	
Office	1		120	120	
KITCHEN TOTAL					**1720**
PHYSICAL EDUCATION					
Gymnasium	1		5000	5000	
P.E. Storage	1		200	200	
P.E. Office/Toilet	1		150	150	
PHYSICAL EDUCATION TOTAL					**5350**
			Building Sub-Total		**35490**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
MISCELLANEOUS					
Building Storage	1		200	200	
Staff Rest Rooms	2		65	130	
Central Receiving / Loading Dock	1		200	200	
Central Stor. / Maint.	1		300	300	
Boiler Room	1		900	900	
Electrical Room	1		200	200	
Air Handling Rooms	2		600	1200	
Janitors Closets	2		25	50	
Custodial Office	1		120	120	
Rest Rooms	3		300	900	
MISCELLANEOUS TOTAL					**4200**
BUILDING/MISCELLANEOUS SUB-TOTAL					**39690**
CIRCULATION/GROSSING FACTOR (28%)					**11113**
BUILDING TOTAL		13 Teachings Stations			**50803**

Project Sheet

Marble Elementary School **3**

Description of Proposal/Series 1	Build, equip and furnish a new, replacement elementary on the existing site.
Description of Proposal/Series 2	
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Demolish existing facility, develop playgrounds, play fields, walks, drives, landscape, signage, building and site utilities

Construction Cost Per Square Foot

New Construction Square Ft	50,803	**Cost per Sq Ft**	$ 210
New Addition Square Ft.		**Cost per Sq Ft**	

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

The new facility will be asbestos free, and address ADA/Barrier Free requirements. Building materials and systems will be designed to be more efficient from an operational, energy usage and maintanance perspective.

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction	10,655,031			**10,655,031**
Remodeling	0			**0**
Construction Contingencies	1,232,503			**1,232,503**
Instructional Technology	254,015			**254,015**
Loose Furnishing/Equipment	508,030			**508,030**
Buses	0			**0**
Site Work	1,670,000			**1,670,000**
Site Acquisition	0			**0**
Architectural Fees and Costs	1,084,603			**1,084,603**
CM Fees and Costs	813,452			**813,452**
Estimated Costs	**16,217,634**	**0**	**0**	**16,217,634**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature | Date: 1/9/2017 | Firm Name and License Number: GMB Architecture + Engineering #55408

Printed Name: Brad Hemmes | E-mail Address: bradh@gmb.com | Phone Number: (616) 796-0200

	Area	Unit	Unit Cost	Subtotals	Bond App. Amounts	Total
Marble Elementary - 2 Section						
New Construction	50,803	SF	$ 196	$ 9,957,388		
Geo-Piers for Structure Support	-	LS	$ 300,000	$ -		
New Construction Total					*$ 9,957,388*	
Site Work	8	Acre		$ 750,000		
Play Fields	1	LS	$ 250,000	$ 250,000		
Underground Storm Detention	1	LS	$ 250,000	$ 250,000		
Site Utilities Upgrade	1	LS	$ 150,000	$ 150,000		
Site Work Total					*$ 1,400,000*	
Asbestos Abatement	45,000	SF	$ 1.50	$ 67,500		
Building Demolition	45,000	SF	$ 4.50	$ 202,500		
Demolition Total					*$ 270,000*	
Subtotal (Trade Cost)				**$ 11,627,388**		
Escalation	*1*		*6.0%*	*$ 697,643*	*$ 697,643*	
Trade Cost Total				**$ 12,325,031**		
Contingency	*10.00%*			*$ 1,232,503*	*$ 1,232,503*	
Subtotal (Construction)				**$ 13,557,534**		
Soft Costs						
CM Fees	*6.00%*			*$ 813,452*	*$ 813,452*	
AE Fees	*8.00%*			*$ 1,084,603*	*$ 1,084,603*	
Subtotal (Construction, CM & AE Fees)				**$ 15,455,589**		
Instructional Technology	*50,803*	*SF*	*$ 5.00*	*$ 254,015*	*$ 254,015*	
FFE	*50,803*	*SF*	*$ 10.00*	*$ 508,030*	*$ 508,030*	
IT & FFE				**$ 762,045**		
Total					*$ 16,217,634*	**$ 16,217,634**

Building Utilization

Marble Elementary School **Project No. [n]** **3**

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**

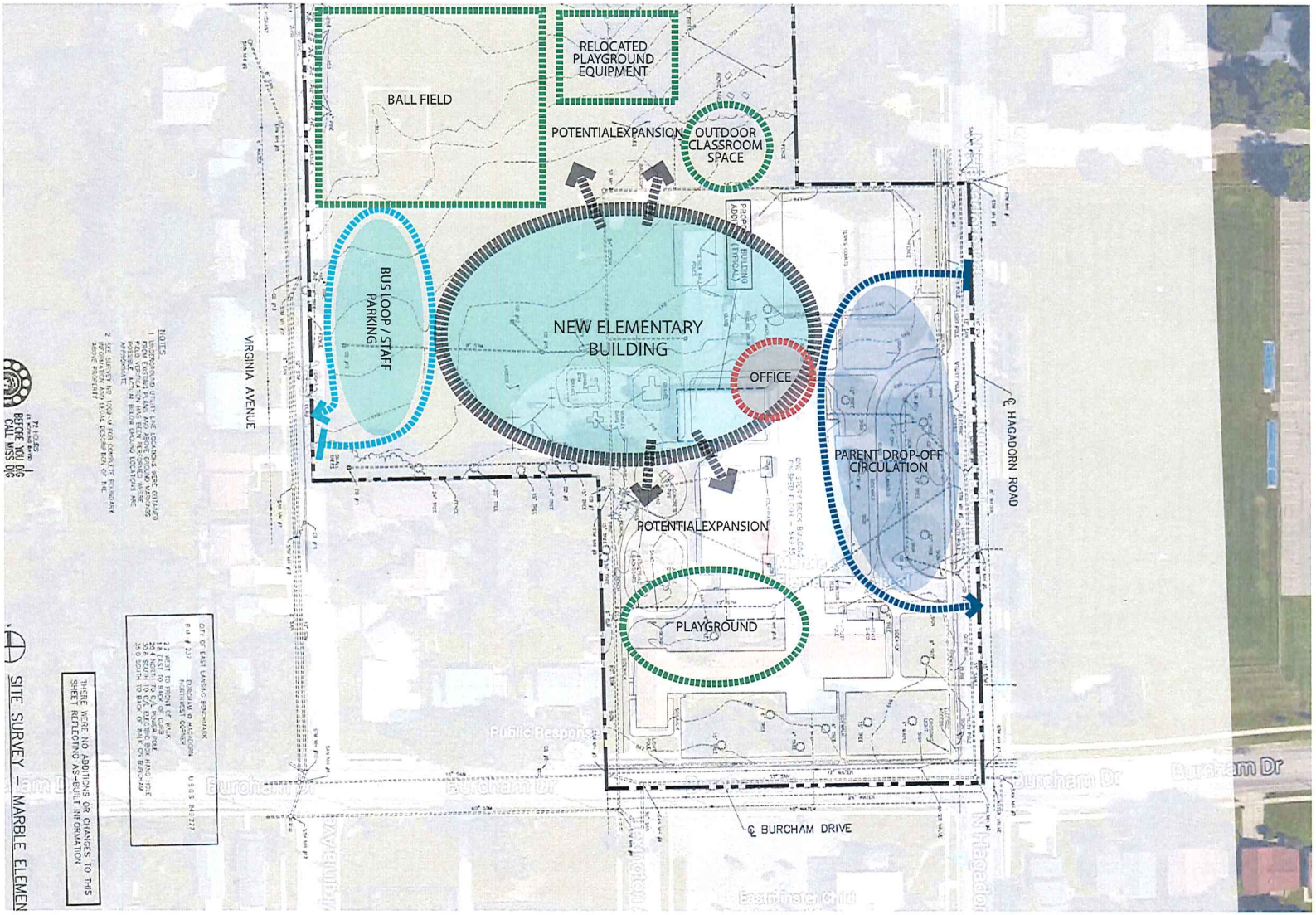
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**13**		**290**
Total	**13**		**290**

Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**14**		**310**

Projected 5-Year Enrollment **283**

Utilization Percentage **98%**
(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- PROVIDE HIGHER LEVEL OF SAFETY DURING HIGH TRAFFIC TIMES
- ALLOW FOR FUTURE BUILDING EXPANSION
- EXPAND ONSITE CAPACITY

PRELIMINARY RECOMMENDATION

- PROVIDE SEPARATION BETWEEN BUS TRAFFIC AND PARENT/ VISITOR TRAFFIC. IMPROVE SAFETY
- MAINTAIN BUSSES ON EAST SIDE OF BUILDING
- PROVIDE VISITOR / STUDENT PICK UP ALONG NORTHEAST
- MOVE OFFICE LOCATION TO NORTHEAST CORNER OF BUILDING
- PROVIDE FUTURE BUILDING EXPANSION TO THE WEST, RELOCATE GYM TO SOUTHWEST
- PROVIDE OUTDOOR CLASSROOM SPACE FOR STEM / LARGE GROUP LEARNING

GMB ae
ARCHITECTURE + ENGINEERING

East Lansing Public Schools
2017 BOND ISSUE **December 21, 2016**
PRELIMINARY PROGRAM **PAGE 1 of 4**
New Elementary Facility

K - 5TH Grade Elementary School - 2 Section + DK
REVISION 4

290 STUDENTS **DRAFT**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CLASSROOMS					
K-2 Classrooms	7	7	1200	8400	
3-5 Classrooms	6	6	990	5940	
SE / Title	2		720	1440	
ELL	1		400	400	
CLASSROOM TOTAL					**16180**
SCIENCE/STEM					
Classroom/Laboratory	1		990	990	
Prep./Storage Area	1		100	100	
SCIENCE TOTAL					**1090**
STAFF ROOMS					
Planning Rooms	1		500	500	
STAFF ROOMS TOTAL					**500**
MEDIA CENTER					
Resource Center	1		2000	2000	
Office	1		120	120	
Workroom	1		120	120	
A/V / Media Storage	1		200	200	
Technology Server Room	1		150	150	
MEDIA CENTER TOTAL					**2590**

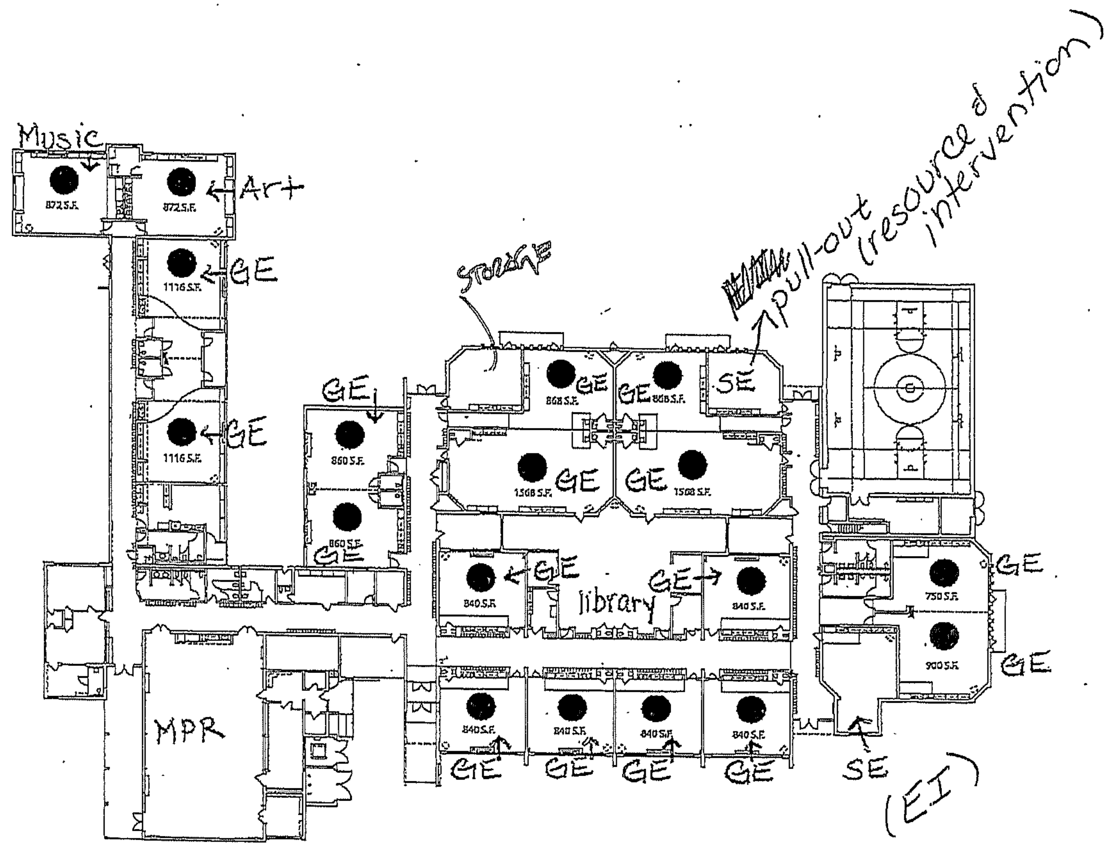
SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
ADMINISTRATION					
GENERAL OFFICE/ COUNSELING					
Principal	1		165	165	
General Office/ Reception/Records	1		550	550	
Work Room	1		110	110	
Copy Center/Mail Room	1		150	150	
Health Room	1		175	175	
Unisex Toilet					
Counselor	1		140	140	
Itinerant Offices	2		120	240	
In-House Room	0		200	0	
Conference Room	1		200	200	
Waiting Area	1		300	300	
ADMINISTRATION TOTAL					**2030**
ART					
Classroom	1		990	990	
Kiln	1		100	100	
Storage	1		100	100	
ART TOTAL					**1190**
MUSIC					
Music Room	1		990	990	
Office/Library	1		150	150	
Storage	1		100	100	
MUSIC TOTAL					**1240**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CAFETERIA					
Seating Area for 200	1		2800	2800	
Table / Chair Storage	1		300	300	
CAFETERIA TOTAL					**3100**
SM. GROUP INSTRUCTION	2		250	500	
SMALL GROUP TOTAL					**500**
KITCHEN (Satellite Warming)					
Kitchen/Serving	1		1000	1000	
Dry/Freeze./Ref. Storage	1		600	600	
Office	1		120	120	
KITCHEN TOTAL					**1720**
PHYSICAL EDUCATION					
Gymnasium	1		5000	5000	
P.E. Storage	1		200	200	
P.E. Office/Toilet	1		150	150	
PHYSICAL EDUCATION TOTAL					**5350**
			Building Sub-Total		**35490**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
MISCELLANEOUS					
Building Storage	1		200	200	
Staff Rest Rooms	2		65	130	
Central Receiving / Loading Dock	1		200	200	
Central Stor. / Maint.	1		300	300	
Boiler Room	1		900	900	
Electrical Room	1		200	200	
Air Handling Rooms	2		600	1200	
Janitors Closets	2		25	50	
Custodial Office	1		120	120	
Rest Rooms	3		300	900	
MISCELLANEOUS TOTAL					**4200**
BUILDING/MISCELLANEOUS SUB-TOTAL					**39690**
CIRCULATION/GROSSING FACTOR (28%)					**11113**
BUILDING TOTAL		13 Teachings Stations			**50803**

EAST LANSING PUBLIC SCHOOLS

Marble Elementary



SE (2)
K - 3
1 - 2
2 - 3
3 - 2
4 - 2
5 - 2
(14) Ts.

N

GMBae ARCHITECTURE + ENGINEERING

Project Sheet

Pinecrest Elementary School **4**

Description of Proposal/Series 1	Build, equip and furnish a new, replacement elementary on the existing site.
Description of Proposal/Series 2	
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Demolish existing facility, develop playgrounds, play fields, walks, drives, landscape, signage, building and site utilities

Construction Cost Per Square Foot

New Construction Square Ft	50,803	**Cost per Sq Ft**	$ 216
New Addition Square Ft.		**Cost per Sq Ft**	

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

The new facility will be asbestos free, and address ADA/Barrier Free requirements. Building materials and systems will be designed to be more efficient from an operational, energy usage and maintanance perspective.

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction	10,973,031			**10,973,031**
Remodeling	0			**0**
Construction Contingencies	1,264,303			**1,264,303**
Instructional Technology	254,015			**254,015**
Loose Furnishing/Equipment	508,030			**508,030**
Buses	0			**0**
Site Work	1,670,000			**1,670,000**
Site Acquisition	0			**0**
Architectural Fees and Costs	1,112,587			**1,112,587**
CM Fees and Costs	834,440			**834,440**
Estimated Costs	**16,616,406**	**0**	**0**	**16,616,406**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	1/9/2017 Date	GMB Architecture + Engineering #55408 Firm Name and License Number
Brad Hemmes Printed Name	bradh@gmb.com E-mail Address	(616) 796-0200 Phone Number

	Area	Unit	Unit Cost	Subtotals	Bond App. Amounts	Total
Pinecrest Elementary - 2 Section						
New Construction	50,803	SF	$ 196	$ 9,957,388		
Geo-Piers for Structure Support	1	LS	$ 300,000	$ 300,000		
New Construction Total					*$ 10,257,388*	
Site Work	8	Acre		$ 750,000		
Play Fields	1	LS	$ 250,000	$ 250,000		
Underground Storm Detention	1	LS	$ 250,000	$ 250,000		
Site Utilities Upgrade	1	LS	$ 150,000	$ 150,000		
Site Work Total					*$ 1,400,000*	
Asbestos Abatement	45,000	SF	$ 1.50	$ 67,500		
Building Demolition	45,000	SF	$ 4.50	$ 202,500		
Demolition Total					*$ 270,000*	
Subtotal (Trade Cost)				**$ 11,927,388**		
Escalation	*1*		*6.0%*	*$ 715,643*	*$ 715,643*	
Trade Cost Total				**$ 12,643,031**		
Contingency	*10.00%*			*$ 1,264,303*	*$ 1,264,303*	
Subtotal (Construction)				**$ 13,907,334**		
Soft Costs						
CM Fees	*6.00%*			*$ 834,440*	*$ 834,440*	
AE Fees	*8.00%*			*$ 1,112,587*	*$ 1,112,587*	
Subtotal (Construction, CM & AE Fees)				**$ 15,854,361**		
Instructional Technology	*50,803*	*SF*	*$ 5.00*	*$ 254,015*	*$ 254,015*	
FFE	*50,803*	*SF*	*$ 10.00*	*$ 508,030*	*$ 508,030*	
IT & FFE				*$ 762,045*		
Total					*$ 16,616,406*	**$ 16,616,406**

Building Utilization

Pinecrest Elementary School **Project No. [n] 4**

Current Grade Structure K-5
Proposed Grade Structure K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**

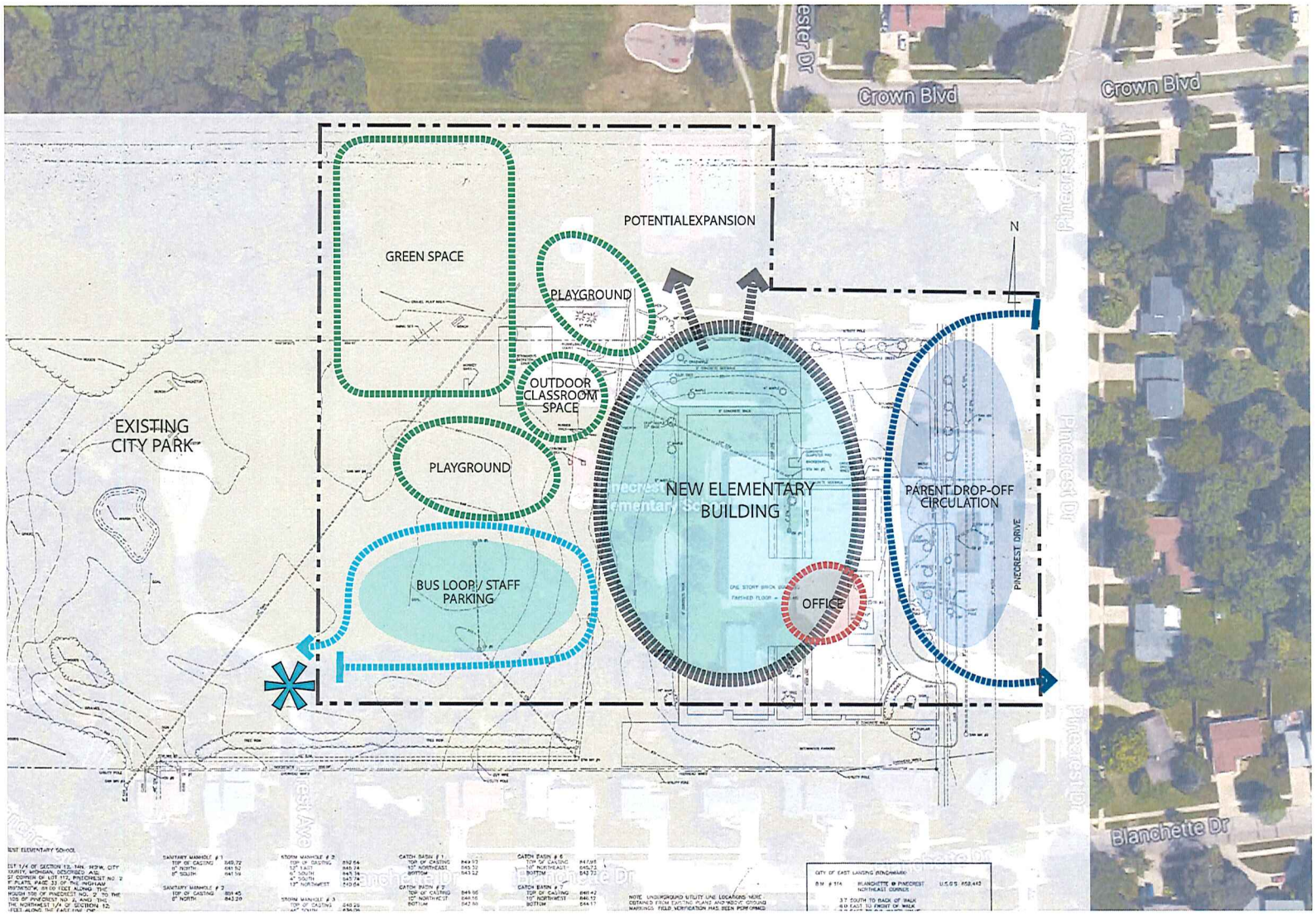
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**13**		**290**
Total	**13**		**290**

Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	8	25	200
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**16**		**360**

Projected 5-Year Enrollment **283**

Utilization Percentage **98%**
(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- PROVIDE HIGHER LEVEL OF SAFETY DURING HIGH TRAFFIC TIMES
- EXPAND ONSITE CAPACITY
- RELIEVE TRAFFIC CONCERNS ON ADJACENT ROADWAYS

PRELIMINARY RECOMMENDATION

- BUILDING PROXIMITY TO ROAD DOESN'T ALLOW FOR ADEQUATE SPACE FOR PARENT STACKING / PARKING.
- REVIEW BUILDING CONFIGURATION AND IDENTIFY AREAS THAT COULD BE REMOVED AND RECONFIGURED.
- PROVIDE LARGER, ON-SITE PARENT PARKING AND DROP-OFF LOOP
- DEVELOP BUS LOOP THAT IS RELOCATED AWAY FROM FRONT OFFICE LOCATION

GMB ae
ARCHITECTURE + ENGINEERING

East Lansing Public Schools
2017 BOND ISSUE **December 21, 2016**
PRELIMINARY PROGRAM **PAGE 1 of 4**
New Elementary Facility

K - 5TH Grade Elementary School - 2 Section + DK
REVISION 4

290 STUDENTS **DRAFT**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CLASSROOMS					
K-2 Classrooms	7	7	1200	8400	
3-5 Classrooms	6	6	990	5940	
SE / Title	2		720	1440	
ELL	1		400	400	
CLASSROOM TOTAL					**16180**
SCIENCE/STEM					
Classroom/Laboratory	1		990	990	
Prep./Storage Area	1		100	100	
SCIENCE TOTAL					**1090**
STAFF ROOMS					
Planning Rooms	1		500	500	
STAFF ROOMS TOTAL					**500**
MEDIA CENTER					
Resource Center	1		2000	2000	
Office	1		120	120	
Workroom	1		120	120	
A/V / Media Storage	1		200	200	
Technology Server Room	1		150	150	
MEDIA CENTER TOTAL					**2590**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
ADMINISTRATION					
GENERAL OFFICE/ COUNSELING					
Principal	1		165	165	
General Office/ Reception/Records	1		550	550	
Work Room	1		110	110	
Copy Center/Mail Room	1		150	150	
Health Room	1		175	175	
Unisex Toilet					
Counselor	1		140	140	
Itinerant Offices	2		120	240	
In-House Room	0		200	0	
Conference Room	1		200	200	
Waiting Area	1		300	300	
ADMINISTRATION TOTAL					**2030**
ART					
Classroom	1		990	990	
Kiln	1		100	100	
Storage	1		100	100	
ART TOTAL					**1190**
MUSIC					
Music Room	1		990	990	
Office/Library	1		150	150	
Storage	1		100	100	
MUSIC TOTAL					**1240**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CAFETERIA					
Seating Area for 200	1		2800	2800	
Table / Chair Storage	1		300	300	
CAFETERIA TOTAL					**3100**
SM. GROUP INSTRUCTION	2		250	500	
SMALL GROUP TOTAL					**500**
KITCHEN (Satellite Warming)					
Kitchen/Serving	1		1000	1000	
Dry/Freeze./Ref. Storage	1		600	600	
Office	1		120	120	
KITCHEN TOTAL					**1720**
PHYSICAL EDUCATION					
Gymnasium	1		5000	5000	
P.E. Storage	1		200	200	
P.E. Office/Toilet	1		150	150	
PHYSICAL EDUCATION TOTAL					**5350**
			Building Sub-Total		**35490**

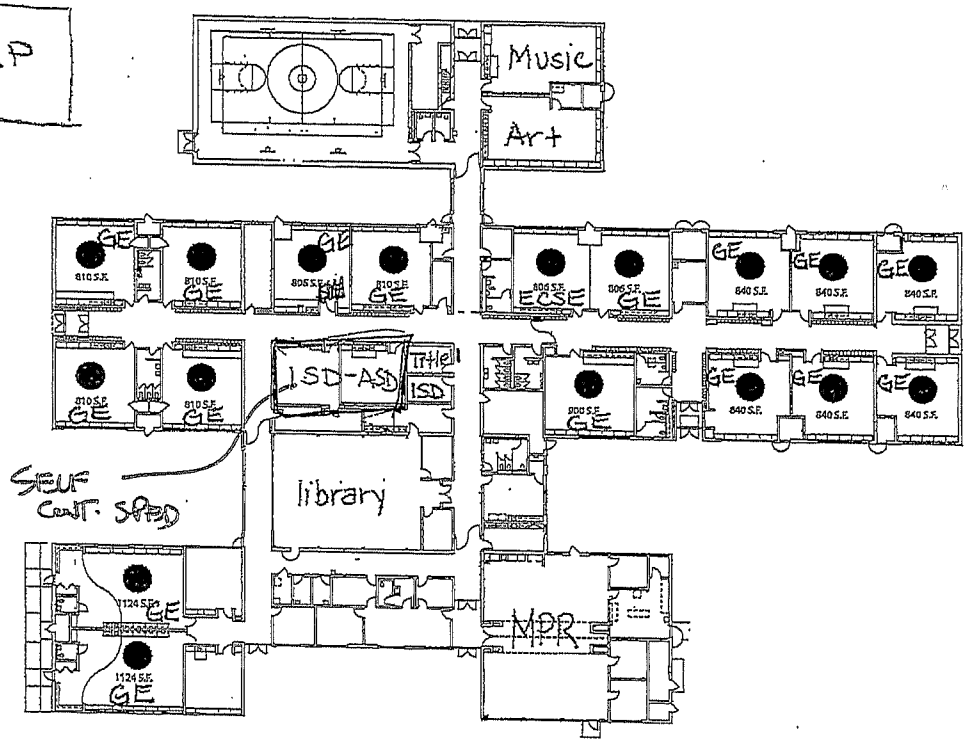
SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
MISCELLANEOUS					
Building Storage	1		200	200	
Staff Rest Rooms	2		65	130	
Central Receiving / Loading Dock	1		200	200	
Central Stor. / Maint.	1		300	300	
Boiler Room	1		900	900	
Electrical Room	1		200	200	
Air Handling Rooms	2		600	1200	
Janitors Closets	2		25	50	
Custodial Office	1		120	120	
Rest Rooms	3		300	900	
MISCELLANEOUS TOTAL					**4200**
BUILDING/MISCELLANEOUS SUB-TOTAL					**39690**
CIRCULATION/GROSSING FACTOR (28%)					**11113**
BUILDING TOTAL		13 Teachings Stations			**50803**

EAST LANSING PUBLIC SCHOOLS

Pinecrest Elementary

Portable

ESL	GSRP



SE (OTHER) (5)

K - 3
1 - 3
2 - 2
3 - 3
4 - 3
5 - 2

(16) TS.

N

GMBae
ARCHITECTURE + ENGINEERING

Project Sheet

Red Cedar Elementary School 5

Description of Proposal/Series 1	Remodeling to accommodate educational program and building operational needs, furnish and equip the facility
Description of Proposal/Series 2	Minor remodeling to accommodate the specific building program at the completion of all other construction projects
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Update and improve parking, drives, playgrounds and play fields.

Construction Cost Per Square Foot

New Construction Square Ft _____ **Cost per Sq Ft** _____

New Addition Square Ft. _____ **Cost per Sq Ft** _____

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

Asbestos abatement, remodeling to accommodate ADA and Barrier Free

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction		0		**0**
Remodeling	6,735,000	862,349		**7,597,349**
Construction Contingencies	782,597	86,235		**868,832**
Instructional Technology	220,000	0		**220,000**
Loose Furnishing/Equipment	440,000	0		**440,000**
Buses	0	0		**0**
Site Work	412,000	0		**412,000**
Site Acquisition	0	0		**0**
Architectural Fees and Costs	688,685	75,887		**764,572**
CM Fees and Costs	516,514	56,915		**573,429**
Estimated Costs	**9,794,796**	**1,081,386**	**0**	**10,876,182**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature | Date: 1/9/2017 | Firm Name and License Number: GMB Architecture + Engineering #55408

Printed Name: Brad Hemmes | E-mail Address: bradh@gmb.com | Phone Number: (616) 796-0200

	Area	Unit	Unit Cost	Subtotals	Bond App. Amounts	Total
Red Cedar Elementary Major Remodeling 2017/2018						
Remodeling	39,000	SF	$ 160	$ 6,240,000		
Secure Entry	2,200	SF	$ 225	$ 495,000		
Asbestos Abatement		LS	$ 1.00			
Remodeling Total					*$ 6,735,000*	
Play Fields	-	LS	$ 250,000	$ -		
Site Work	41,200	SF	$ 10	$ 412,000		
Site Work Total					*$ 412,000*	
Subtotal (Trade Cost)				**$ 7,147,000**		
Escalation	1		*0.00%*	*$ -*	*$ -*	
Trade Cost Total				**$ 7,147,000**		
Contingency	*10.95%*			*$ 782,597*	*$ 782,597*	
Subtotal (Construction)				**$ 7,929,597**		
Soft Costs						
CM Fees	*6.51%*			*$ 516,514*	*$ 516,514*	
AE Fees	*8.68%*			*$ 688,685*	*$ 688,685*	
Subtotal (Construction, CM & AE Fees)				**$ 9,134,796**		
Instructional Technology	*44,000*	*SF*	*$ 5.00*	*$ 220,000*	*$ 220,000*	
FFE	*44,000*	*SF*	*$ 10.00*	*$ 440,000*	*$ 440,000*	
IT & FFE				**$ 660,000**		
Total					***$ 9,794,796***	**$ 9,794,796**
Red Cedar Elementary Minor Remodeling 2021						
Remodeling	5,000	LS	$ 160	$ 800,000		
Secure Entry		SF	$ 225	$ -		
Asbestos Abatement	44,000	LS		$ 62,349		
Remodeling Total					*$ 862,349*	
Play Fields	-	LS	$ 250,000	$ -		
Site Work		SF	$ 10	$ -		
Site Work Total					*$ -*	
Subtotal (Trade Cost)				**$ 862,349**		
Escalation	1		*0.00%*		*$ -*	
Trade Cost Total				**$ 862,349**		
Contingency	*10.00%*			*$ 86,235*	*$ 86,235*	
Subtotal (Construction)				**$ 948,584**		
Soft Costs						
CM Fees	*6.00%*			*$ 56,915*	*$ 56,915*	
AE Fees	*8.00%*			*$ 75,887*	*$ 75,887*	
Subtotal (Construction, CM & AE Fees)				**$ 1,081,386**		
Instructional Technology		*SF*	*$ 5.00*	*$ -*	*$ -*	
FFE		*SF*	*$ 10.00*	*$ -*	*$ -*	
IT & FFE				**$ -**		
Total					***$ 1,081,386***	**$ 1,081,386**

Building Utilization

Red Cedar Elementary School **Project No. [n] 5**

Current Grade Structure N/A
Proposed Grade Structure K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	4	20	80
(3-5) Upper Elementary	3	25	75
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**7**		**155**

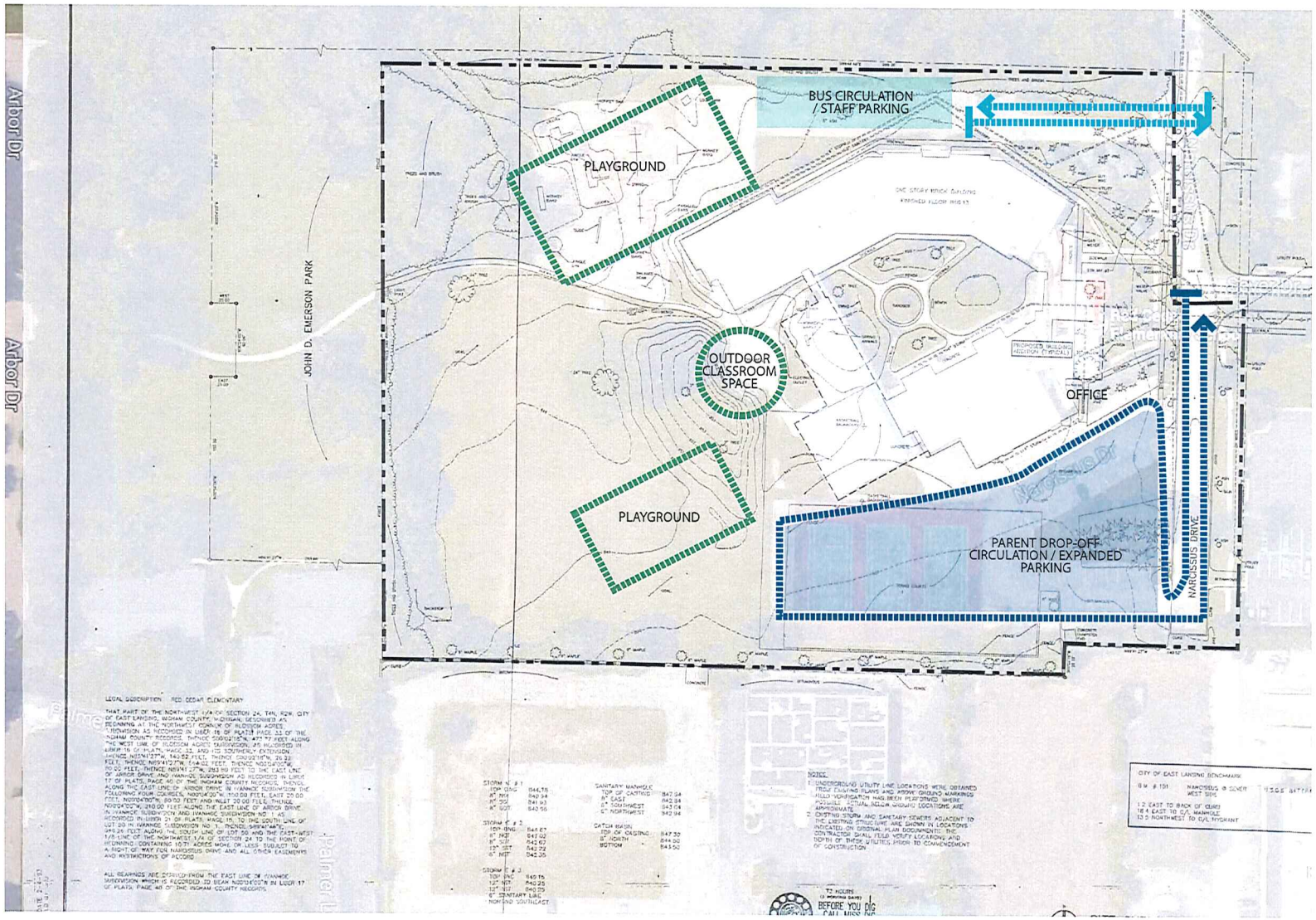
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**
Total	**7**		**155**

Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**0**		**0**

Projected 5-Year Enrollment **155**

Utilization Percentage **100%**
(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- PROVIDE HIGHER LEVEL OF SAFETY DURING HIGH TRAFFIC TIMES
- EXPAND ONSITE CAPACITY
- RELIEVE TRAFFIC CONCERNS ON ADJACENT ROADWAYS

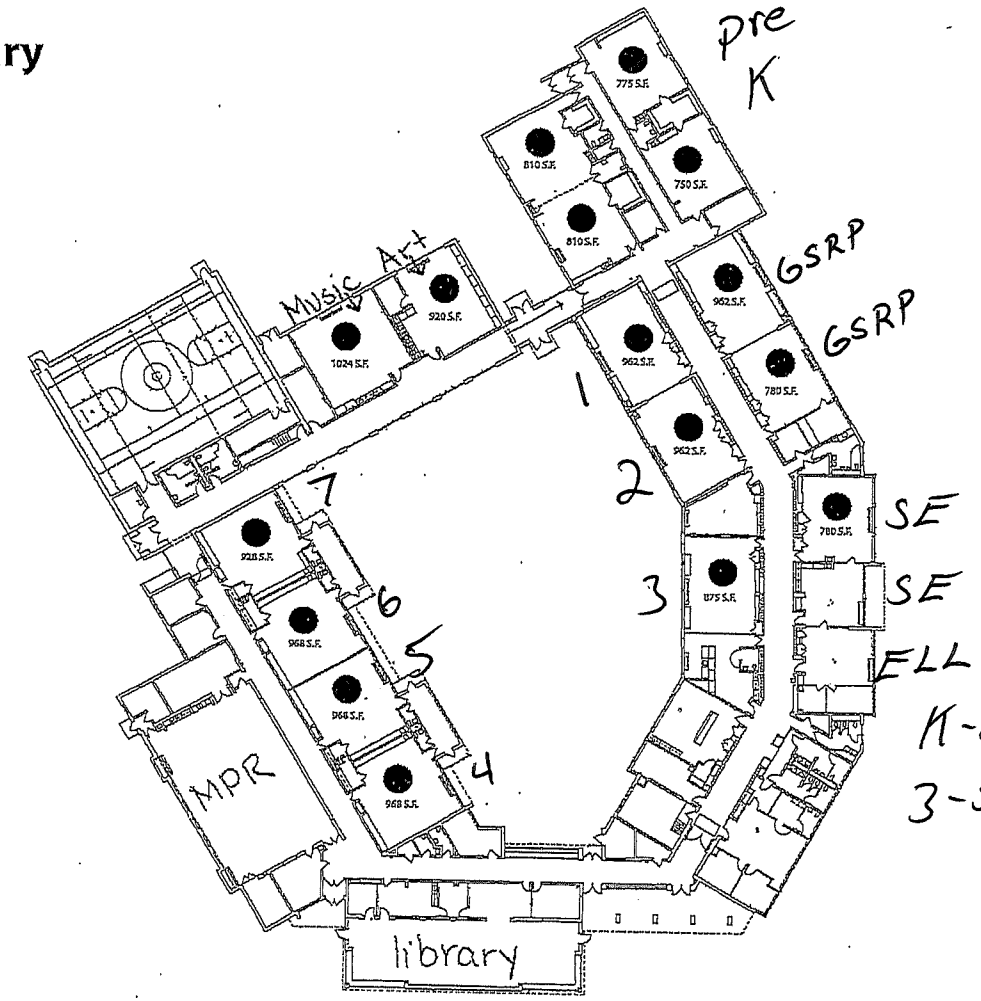
PRELIMINARY RECOMMENDATION

- RELOCATE OFFICE FOR BETTER PROXIMITY TO THE PARENT PARKING AREA
- PROVIDE LARGER, ON-SITE PARENT PARKING AND DROP-OFF LOOP
- DEVELOP BUS LOOP THAT IS LOCATED AWAY FROM FRONT OFFICE LOCATION

GMB ae
ARCHITECTURE + ENGINEERING

EAST LANSING PUBLIC SCHOOLS

Red Cedar Elementary



16 POSSIBLE TS.

K-2 - 4TS x 20 = 80
3-5 - 3TS x 25 = 75
155

N

GMB ae
ARCHITECTURE + ENGINEERING

Project Sheet

Whitehills Elementary School **6**

Description of Proposal/Series 1	
Description of Proposal/Series 2	Build, equip and furnish a new, replacement elementary on the existing site.
Description of Proposal/Series 3	
Instructional Technology Description	Student and staff devices
Site Work Description	Demolish existing facility, develop playgrounds, playfields, walks, drives, landscape, signage, building and site utilities

Construction Cost Per Square Foot

New Construction Square Ft	50,803	**Cost per Sq Ft**	$ 224
New Addition Square Ft.		**Cost per Sq Ft**	

Statement describing any existing environmental or usability problems the proposed project will address. (ex: asbestos, energy use, or ADA requirements)

The new facility will be asbestos free, and address ADA/Barrier Free requirements. Building materials and systems will be designed to be more efficient from an operational, energy usage and maintanance perspective.

Estimated Cost of Proposed Construction Project

	Proposal/Series 1	Proposal/Series 2	Proposal/Series 3	Total
New Construction		11,363,320		**11,363,320**
Remodeling		0		**0**
Construction Contingencies		1,274,732		**1,274,732**
Instructional Technology		254,015		**254,015**
Loose Furnishing/Equipment		508,030		**508,030**
Buses		0		**0**
Site Work		1,384,000		**1,384,000**
Site Acquisition		0		**0**
Architectural Fees and Costs		1,121,764		**1,121,764**
CM Fees and Costs		841,323		**841,323**
Estimated Costs	**0**	**16,747,184**	**0**	**16,747,184**

Certificate by Registered Architect

I certify that I have assessed the conditions relative to this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.

Signature	1/9/2017 Date	GMB Architecture + Engineering #55408 Firm Name and License Number
Brad Hemmes Printed Name	bradh@gmb.com E-mail Address	(616) 796-0200 Phone Number

		Area	Unit	Unit Cost	Total		
5	**White Hills Elementary - 2 Section**						
	New Construction	50,803	SF	$ 196	$ 9,957,388		
	Geo-Piers for Structure Support	1	LS	$ 300,000	$ 300,000		
	New Construction Total					*$ 10,257,388*	
	Site Work	5.5	Acre	$ 90,909	$ 500,000		
	Playground Equipment	1	LS	$ 250,000	$ 250,000		
	Underground Storm Detention	1	LS	$ 250,000	$ 250,000		
	Site Utilities Upgrade	1	LS	$ 150,000	$ 150,000		
	Sitework Total					*$ 1,150,000*	
	Asbestos Abatement	39,000	SF	$ 1.50	$ 58,500		
	Building Demolition	39,000	SF	$ 4.50	$ 175,500		
	Demolition Total					*$ 234,000*	
	Subtotal (Trade Cost)				**$ 11,641,388**		
	Escalation	*1*		*9.5%*	*$ 1,105,932*	*$ 1,105,932*	
	Trade Cost Total				**$ 12,747,320**		
	Contingency	*10.00%*			*$ 1,274,732*	*$ 1,274,732*	
	Subtotal (Construction)				**$ 14,022,052**		
	Soft Costs						
	CM Fees	*6.00%*			*$ 841,323*	*$ 841,323*	
	AE Fees	*8.00%*			*$ 1,121,764*	*$ 1,121,764*	
	Subtotal (Construction, CM & AE Fees)				**$ 15,985,139**		
	Information Technology	*50,803*	*SF*	*$ 5.00*	*$ 254,015*	*$ 254,015*	
	FFE	*50,803*	*SF*	*$ 10.00*	*$ 508,030*	*$ 508,030*	
	IT & FFE				**$ 762,045**		
	Total					***$ 16,747,184***	**$ 16,747,184**

Building Utilization

Whitehills Elementary School **Project No. [n] 6**

Current Grade Structure	K-5
Proposed Grade Structure	K-5

1. List the number of teaching station in appropriate column.
2. Calculate total capacity using the applicable capacity factor.
3. Enter five (5) year projected enrollment.
4. Calculate building utilization rate.
5. Attach floor plan of the building. Show the rooms and category (existing, proposed new, closed).
6. Number the teaching stations in consecutive order.

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary		20	0
(3-5) Upper Elementary		25	0
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**0**		**0**

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	6	25	150
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Subtotal	**13**		**290**
Total	**13**		**290**

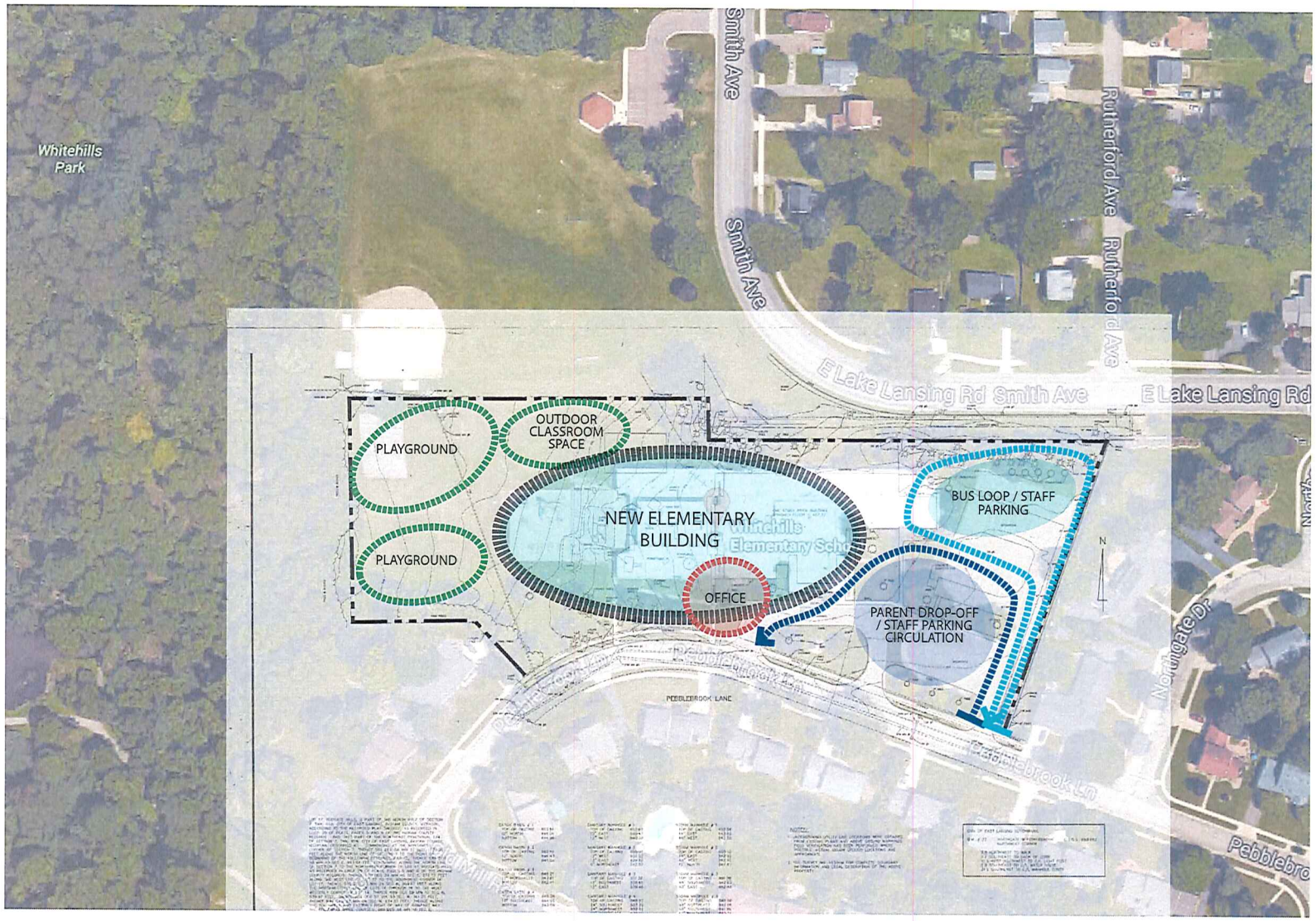
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	7	25	175
(6-8) Junior High		22.5	0
(9-12) High School		21.25	0
Total	**15**		**335**

Projected 5-Year Enrollment **284**

Utilization Percentage **98%**

(Projected 5-Year Enrollment / Total Capacity)

Please transfer applicable information to the Utilization Summary on Page 6 of the application.



GOALS

- PROVIDE HIGHER LEVEL OF SAFETY DURING HIGH TRAFFIC TIMES
- EXPAND ONSITE CAPACITY
- RELIEVE TRAFFIC CONCERNS ON ADJACENT ROADWAYS
- PROVIDE FOR FUTURE GROWTH

PRELIMINARY RECOMMENDATION

- EXPAND / RENOVATE OFFICE FOR BETTER VISIBILITY TO PARKING LOT
- PROVIDE LARGER, ON-SITE PARENT PARKING AND DROP-OFF LOOP
- MAINTAIN EXISTING BUS LOOP
- RELOCATE AND EXPAND PLAYGROUND SPACE
- REMOVE EAST 6 CLASSROOMS, RELOCATE ON THE BUILDINGS WEST SIDE

GMB ae
ARCHITECTURE + ENGINEERING

East Lansing Public Schools
2017 BOND ISSUE
PRELIMINARY PROGRAM
New Elementary Facility

December 21, 2016

K - 5TH Grade Elementary School - 2 Section + DK
REVISION 4

290 STUDENTS **DRAFT**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CLASSROOMS					
K-2 Classrooms	7	7	1200	8400	
3-5 Classrooms	6	6	990	5940	
SE / Title	2		720	1440	
ELL	1		400	400	
CLASSROOM TOTAL					**16180**
SCIENCE/STEM					
Classroom/Laboratory	1		990	990	
Prep./Storage Area	1		100	100	
SCIENCE TOTAL					**1090**
STAFF ROOMS					
Planning Rooms	1		500	500	
STAFF ROOMS TOTAL					**500**
MEDIA CENTER					
Resource Center	1		2000	2000	
Office	1		120	120	
Workroom	1		120	120	
A/V / Media Storage	1		200	200	
Technology Server Room	1		150	150	
MEDIA CENTER TOTAL					**2590**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
ADMINISTRATION					
GENERAL OFFICE/ COUNSELING					
Principal	1		165	165	
General Office/ Reception/Records	1		550	550	
Work Room	1		110	110	
Copy Center/Mail Room	1		150	150	
Health Room	1		175	175	
Unisex Toilet					
Counselor	1		140	140	
Itinerant Offices	2		120	240	
In-House Room	0		200	0	
Conference Room	1		200	200	
Waiting Area	1		300	300	
ADMINISTRATION TOTAL					**2030**
ART					
Classroom	1		990	990	
Kiln	1		100	100	
Storage	1		100	100	
ART TOTAL					**1190**
MUSIC					
Music Room	1		990	990	
Office/Library	1		150	150	
Storage	1		100	100	
MUSIC TOTAL					**1240**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
CAFETERIA					
Seating Area for 200	1		2800	2800	
Table / Chair Storage	1		300	300	
CAFETERIA TOTAL					**3100**
SM. GROUP INSTRUCTION	2		250	500	
SMALL GROUP TOTAL					**500**
KITCHEN (Satellite Warming)					
Kitchen/Serving	1		1000	1000	
Dry/Freeze./Ref. Storage	1		600	600	
Office	1		120	120	
KITCHEN TOTAL					**1720**
PHYSICAL EDUCATION					
Gymnasium	1		5000	5000	
P.E. Storage	1		200	200	
P.E. Office/Toilet	1		150	150	
PHYSICAL EDUCATION TOTAL					**5350**
			Building Sub-Total		**35490**

SPACE	NO.	T.S.	SF/EA.	TOTAL SF	
MISCELLANEOUS					
Building Storage	1		200	200	
Staff Rest Rooms	2		65	130	
Central Receiving / Loading Dock	1		200	200	
Central Stor. / Maint.	1		300	300	
Boiler Room	1		900	900	
Electrical Room	1		200	200	
Air Handling Rooms	2		600	1200	
Janitors Closets	2		25	50	
Custodial Office	1		120	120	
Rest Rooms	3		300	900	
MISCELLANEOUS TOTAL					**4200**
BUILDING/MISCELLANEOUS SUB-TOTAL					**39690**
CIRCULATION/GROSSING FACTOR (28%)					**11113**
BUILDING TOTAL		13 Teachings Stations			**50803**

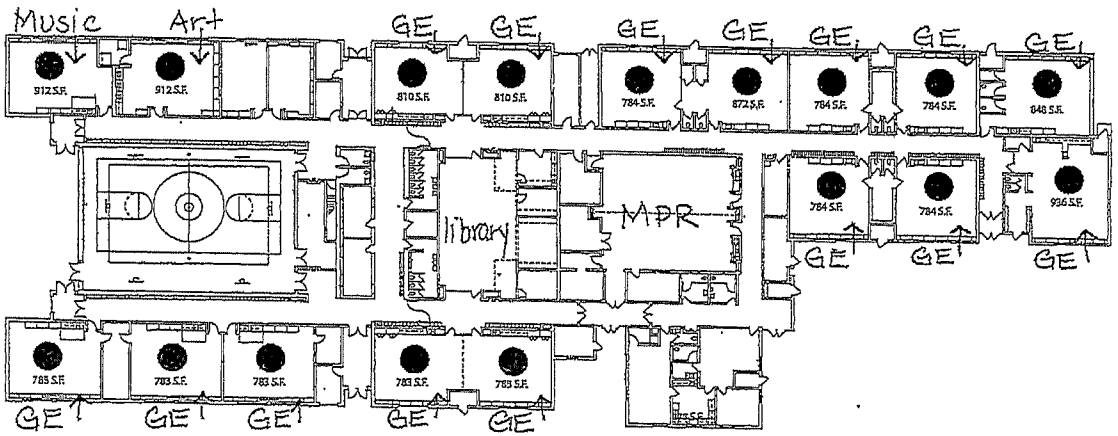
EAST LANSING PUBLIC SCHOOLS

Whitehills Elementary

SE/GTHER (0)

DK - 1
K - 2
1 - 3
2 - 2
3 - 3
4 - 2
5 - 2

15 TE



N

GMB ae
ARCHITECTURE + ENGINEERING

Utilization Summary

East Lansing Public Schools

33010

List ALL district facilities in the following order: elementary schools, junior high/middle schools, high schools, and non-instructional facilities.

Proj. No.	Name of School Facility	Current Grade Structure	Proposed Grade Structure	Projected 5-Year Enrollment	Existing Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
1	Donley Elementary School	K-5	K-5	283	0	290	290	98%	290
2	Glencairn Elementary School	K-5	K-5	283	0	290	290	98%	270
3	Marble Elementary School	K-5	K-5	283	0	290	290	98%	310
4	Pinecrest Elementary School	K-5	K-5	283	0	290	290	98%	360
5	Red Cedar Elementary School	N/A	K-5	155	155	0	155	100%	0
6	Whitehills Elementary School	K-5	K-5	284	0	290	290	98%	335
	MacDonald Middle School	6th-8th	6th-8th	817	990	0	990	83%	0
	East Lansing High School	9th-12th	9th-12th	1155	1254	0	1,254	92%	0
							0	#DIV/0!	
							0	#DIV/0!	
							0	#DIV/0!	
							0	#DIV/0!	
							0	#DIV/0!	
							0	#DIV/0!	
							0	#DIV/0!	
Total				**3543**	**2399**	**1450**	**3,849**	**92%**	

Subtotals by School District's Grade Configuration

Configuration	Current Grade Structure	Proposed Grade Structure	Projected 5-Year Enrollment	Existing Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
Elementary School	K-5	K-5	1571	155	1450	1605	98%	1565
Junior High/Middle School	6-8	6-8	817	990	0	990	83%	0
High School	9-12	9-12	1155	1254	0	1254	92%	0
Total			**3543**	**2399**	**1450**	**3849**	**92%**	**1565**

Facility Summary

East Lansing Public Schools 33010

List ALL district facilities in the following order: elementary schools, junior high/middle schools, high schools, and non-instructional facilities.

Proj. No.	1 Facility Type*	2 Name of School Facility	3 Address	4 City	5 Year Built	6 Year(s) Remodeled	7 Total Sq.Ft.	8 New Site (Acres)	9 Bldg In Use? Y/N	10 Sq Ft of Closed Facility	11 Disposition of Closed Facility**
1	Instructional	Donley Elementary School	2961 E. Lk Lansing Rd	East Lansing	1951	1957,68,81, 92	42,120	0	Yes	42,120	1
2	Instructional	Glencairn Elementary School	939 N. Harrison Road	East Lansing	1952	1964,66,91	35,560	0	Yes	35,560	1
3	Instructional	Marble Elementary School	729 N. Hagadorn Road	East Lansing	1952	1955,68,93	44,440	0	Yes	44,440	1
4	Instructional	Pinecrest Elementary School	1811 Pinecrest Drive	East Lansing	1960	1961,66,68, 91	44,740	0	Yes	44,740	1
5	Instructional	Red Cedar Elementary School	1110 Narcissus Drive	East Lansing	1948	1951,53,68, 87,91	45,360	0	No	0	n/a
6	Instructional	Whitehills Elementary School	621 Pebblebrook Lane	East Lansing	1963	1966,81,92	38,970	0	Yes	38,970	1
	Instructional	MacDonald Middle School			1967	2002	98,050	0	Yes	0	n/a
	Instructional	East Lansing High School			1956	2005	324,000	0	Yes	0	n/a
Total	---	---	---	---	---	---	673,240			205830	---

*Facility Type:	**Closed Facility Reference:
Instructional	1. Demolish
Non-Instructional	2. Convert to non-instructional
Bus Garage	3. Sell or lease
Storage	4. Retain for future use
Stadium	5. Undetermined

Cost Summary - Series I

East Lansing Public Schools

33010

1 Proj. #	2 Cost per Sq Foot	3 New Cons Sq Feet	4 New Construction	5 Remodeling	6 Contingency	7 Instructional Technology	8 Loose Furn and Equip	9 Buses	10 Site Work	11 Site Acquisition	12 A/E Fees and Costs	13 CM Fees and Costs	14 Project Costs	15 Election/Issue Costs	16 Total Cost
1	$203	50,803	10,313,350	0	1,222,135	254,015	508,030	0	1,908,000	0	1,075,479	806,609	**16,087,618**	225,139	**16,312,757**
2	224	50,803	0	0	0	0	0	0	0	0	0	0	**0**		**0**
3	210	50,803	10,655,031	0	1,232,503	254,015	508,030	0	1,670,000	0	1,084,603	813,452	**16,217,634**	229,308	**16,446,942**
4	216	50,803	10,973,031	0	1,264,303	254,015	508,030	0	1,670,000	0	1,112,587	834,440	**16,616,406**	233,477	**16,849,883**
5	0	0	0	6,735,000	782,597	220,000	440,000	0	412,000	0	688,685	516,514	**9,794,796**	145,923	**9,940,719**
6	224	50,803	0	0	0	0	0	0	0	0	0	0	**0**		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
Total		**254,015**	**31,941,412**	**6,735,000**	**4,501,538**	**982,045**	**1,964,090**	**0**	**5,660,000**	**0**	**3,961,354**	**2,971,015**	**58,716,454**	**833,847**	**59,550,301**

17. Funding:

Total Estimated Cost of Project:	$59,550,301
LESS:	
Estimated Interest Earnings:	$720,301
Other (specify):	
AMOUNT OF PROPOSED ISSUE *(Amount to be Qualified)*	**$58,830,000**

Cost Summary - Series II

East Lansing Public Schools

33010

1 Proj. #	2 Cost per Sq Foot	3 New Cons Sq Feet	4 New Construction	5 Remodeling	6 Contingency	7 Instructional Technology	8 Loose Furn and Equip	9 Buses	10 Site Work	11 Site Acquisition	12 A/E Fees and Costs	13 CM Fees and Costs	14 Project Costs	15 Election/Issue Costs	16 Total Cost
1	$203	50,803	0	0	0	0	0	0	0	0	0	0	**0**		**0**
2	224	50,803	11,361,610	0	1,272,761	254,015	508,030	0	1,366,000	0	1,120,030	840,022	**16,722,468**	241,846	**16,964,314**
3	210	50,803	0	0	0	0	0	0	0	0	0	0	**0**		**0**
4	216	50,803	0	0	0	0	0	0	0	0	0	0	**0**		**0**
5	0	0	0	862,349	86,235	0	0	0	0	0	75,887	56,915	**1,081,386**	17,634	**1,099,020**
6	224	50,803	11,363,320	0	1,274,732	254,015	508,030	0	1,384,000	0	1,121,764	841,323	**16,747,184**	244,365	**16,991,549**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
													0		**0**
Total		**254,015**	**22,724,930**	**862,349**	**2,633,728**	**508,030**	**1,016,060**	**0**	**2,750,000**	**0**	**2,317,681**	**1,738,260**	**34,551,038**	**503,845**	**35,054,883**

17. Funding:

Total Estimated Cost of Project:	$35,054,883
LESS:	
Estimated Interest Earnings:	$114,883
Other (specify):	
AMOUNT OF PROPOSED ISSUE *(Amount to be Qualified)*	**$34,940,000**

Cost Summary - Series I & II

East Lansing Public Schools

33010

1 Proj. #	2 Cost per Sq Foot	3 New Cons Sq Feet	4 New Construction	5 Remodeling	6 Contingency	7 Instructional Technology	8 Loose Furn and Equip	9 Buses	10 Site Work	11 Site Acquisition	12 A/E Fees and Costs	13 CM Fees and Costs	14 Project Costs	15 Election/Issue Costs	16 Total Cost
1	$203	50,803	10,313,350	0	1,222,135	254,015	508,030	0	1,908,000	0	1,075,479	806,609	**16,087,618**	225,139	**16,312,757**
2	224	50,803	11,361,610	0	1,272,761	254,015	508,030	0	1,366,000	0	1,120,030	840,022	**16,722,468**	241,846	**16,964,314**
3	210	50,803	10,655,031	0	1,232,503	254,015	508,030	0	1,670,000	0	1,084,603	813,452	**16,217,634**	229,308	**16,446,942**
4	216	50,803	10,973,031	0	1,264,303	254,015	508,030	0	1,670,000	0	1,112,587	834,440	**16,616,406**	233,477	**16,849,883**
5	0	0	0	7,597,349	868,832	220,000	440,000	0	412,000	0	764,572	573,429	**10,876,182**	163,557	**11,039,739**
6	224	50,803	11,363,320	0	1,274,732	254,015	508,030	0	1,384,000	0	1,121,764	841,323	**16,747,184**	244,365	**16,991,549**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
													0	0	**0**
Total		**254,015**	**54,666,342**	**7,597,349**	**7,135,266**	**1,490,075**	**2,980,150**	**0**	**8,410,000**	**0**	**6,279,035**	**4,709,275**	**93,267,492**	**1,337,692**	**94,605,184**

17. Funding:

Total Estimated Cost of Project:	$94,605,184
LESS:	
Estimated Interest Earnings:	$835,184
Other (specify):	
AMOUNT OF PROPOSED ISSUE *(Amount to be Qualified)*	**$93,770,000**

3881, Worksheet 1: Useful Life Calculation SERIES 1

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
	Col. 1	**Col. 2**	**Col. 3**	**Col. 4**	**Col. 5**	**Col. 6**	**Col. 7**	**Col. 8**
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	0	40	31,941,412	4,471,798	36,413,210	76.74%	30.70
Building Improvements	30	0	30	6,735,000	942,900	7,677,900	16.18%	4.85
Roofing	20	0	20			0	0.00%	0.00
Flooring	10	0	10			0	0.00%	0.00
Furnishing/ Equipment	10	0	10	1,964,090	274,973	2,239,063	4.72%	0.47
Technology Infrastructure	10	0	10			0	0.00%	0.00
Technology (instr/non-instr)	5	0	5	982,045	137,486	1,119,531	2.36%	0.12
Buses	6	0	6			0	0.00%	0.00
Total for purposes of determining weighted avg useful life				41,622,547	5,827,157	47,449,704	100.00%	36.14

120% of average useful life of assets → **43.37**

3881, Worksheet 1: Useful Life Calculation SERIES 2

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions →		Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
	Col. 1	**Col. 2**	**Col. 3**	**Col. 4**	**Col. 5**	**Col. 6**	**Col. 7**	**Col. 8**
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	0	40	22,724,930	3,181,490	25,906,420	90.88%	36.35
Building Improvements	30	0	30	862,349		862,349	3.03%	0.91
Roofing	20	0	20			0	0.00%	0.00
Flooring	10	0	10			0	0.00%	0.00
Furnishing/ Equipment	10	0	10	1,016,060	142,248	1,158,308	4.06%	0.41
Technology Infrastructure	10	0	10			0	0.00%	0.00
Technology (instr/non-instr)	5	0	5	508,030	71,124	579,154	2.03%	0.10
Buses	6	0	6			0	0.00%	0.00
Total for purposes of determining weighted avg useful life				25,111,369	3,394,863	28,506,232	100.00%	37.77

120% of average useful life of assets → **45.32**

3881, Worksheet 1: Useful Life Calculation SERIES 1 & 2

A school district must demonstrate that the weighted average maturity of the qualified bond issue does not exceed 120% of the average reasonably expected useful life of the facilities, excluding land and site improvements, being financed with the proceeds of the qualified bonds.

The following table lists the recommended average useful life of the categories of assets that should be considered in this calculation. If a specific item is not listed, it should be assigned to the most closely related category.

Asset Category	Useful Life Years
New School Building	40
Building Improvements - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
Furnishings and Equipment - furniture and fixtures that are not a structural component of a building such as desks, chairs, tables, storage units, office equipment, copiers, fax machines, communications equipment, kitchen equipment and appliances, athletic equipment, etc.	10
Technology Infrastructure - cables, networks, etc.	10
Buses	6
Technology (instructional and non-instructional) - computers, printers, scanners, etc.	5

Use the worksheet below to calculate the weighted average useful life of assets included in projects funded by bond proceeds.

Follow Column Instructions →		Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
	Col. 1	**Col. 2**	**Col. 3**	**Col. 4**	**Col. 5**	**Col. 6**	**Col. 7**	**Col. 8**
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	0	40	54,666,342	7,653,288	62,319,630	81.92%	32.77
Building Improvements	30	0	30	7,597,349	1,063,629	8,660,978	11.38%	3.42
Roofing	20	0	20			0	0.00%	0.00
Flooring	10	0	10			0	0.00%	0.00
Furnishing/ Equipment	10	0	10	2,980,150	417,221	3,397,371	4.47%	0.45
Technology Infrastructure	10	0	10			0	0.00%	0.00
Technology (instr/non-instr)	5	0	5	1,490,075	208,611	1,698,686	2.23%	0.11
Buses	6	0	6			0	0.00%	0.00
Total for purposes of determining weighted avg useful life				66,733,916	9,342,748	76,076,664	100.00%	36.74

120% of average useful life of assets → 44.09