Completion: Required for Qualification.

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program for

L'ANSE CREUSE PUBLIC SCHOOLS

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^{*}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 517-335-0994 www.michigan.gov/sblf

Application for Preliminary Qualification of Bonds

Issued under authority of Public Act 92 of 2005, as amended

Election Date	Application No.
November 5, 2024	50-140-4-K12-26-02
District Name and Address	School District Code and Phone No.
L'Anse Creuse Public Schools	50-140
24076 F.V. Pankow Blvd	586-783-6300
Clinton Township, MI 48036	
Superintendent Name and Email	
Erik Edoff	
edoffer@lc-ps.org	

Mailing Instructions

Return ONE originally signed copy to your bond counsel by OVERNIGHT MAIL. Retain ONE originally signed copy for your files.

Your bond counsel will transmit an electronic copy to the Department of Treasury, financial consultant, architectural firm, and construction management firm.

Certificate

I, the undersigned, Secretary of the Board of Education, do certify hereby that the Board of Education of this School District, at a regular meeting of the Board, which was conducted and for which public notice of said meeting was given pursuant to and in full compliance with Act 276 of the Public Acts of 1976 (Open Meetings Act), on this:

17 day of June 2024

took the following action:

- (1) Resolved to apply for preliminary qualification of bonds by the State Treasurer for the purpose of financing the school construction description in this application.
- (2) That said application is presented to the State Treasurer for action prior to the official action of the Board of Education calling the election on said bond issue.
- (3) Resolved that this Board of Education will present a final qualification application to the State Treasurer for qualification of their bonds after this bond issue has been approved by the electors of said district.
- (4) Read this application and approved all statements and representations contained herein as true to the best knowledge and belief of the Board.
- (5) Authorized the Secretary of the Board of Education to sign this Preliminary Application and submit same to the State Treasurer for review and approval.

IN WITNESS whereof, I have hereunto set my hand this 17 day of June 2024 **Sharon Ross** Secretary, Board of Education Signature of Secretary Amelia Servial Erik Edoff Treasurer, Board of Education Superintendent of Schools 2900 West Road, Suite 400, East Lansing, MI 48823 Thrun Law Firm, P.C. Bond Counsel Mailing Address 555 Briarwood Circle, Suite 333, Ann Arbor, MI 48108 PFM Financial Advisors LLC Financial Consultant Mailing Address

PARTNERS in Architecture, PLC 65 Market Street, Suite 200, Mount Clemens, MI 48043 Architectural Firm Mailing Address

26500 American Drive, Southfield, MI 48034 **Barton Malow Builders** Construction Management Firm Mailing Address

L'ANSE CREUSE PUBLIC SCHOOLS BOND PROPOSAL

Shall L'Anse Creuse Public Schools, Macomb County, Michigan, borrow the sum of not to exceed One Hundred Eighty-Eight Million Seven Hundred Thousand Dollars (\$188,700,000) and issue its general obligation unlimited tax bonds therefor, in one or more series, for the purpose of:

- remodeling, furnishing and refurnishing, and equipping and reequipping school buildings, including for school security;
- acquiring and installing instructional technology;
- equipping, preparing, developing, and improving athletic fields and facilities, playgrounds, and sites; and
- purchasing school buses?

The following is for informational purposes only:

The estimated millage that will be levied for the proposed bonds in 2025, under current law, is 0.00 mill (\$0.00 on each \$1,000 of taxable valuation) for a 0.00 mill net increase over the prior year's levy. 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 2.29 mills (\$2.29 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 \$7,790,232 and the estimated total interest to be paid thereon is \$13,005,718. The estimated duration of the millage levy associated with that borrowing is 10 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 \$187,750,000. The total amount of qualified loans currently outstanding is approximately \$25,336,495.

(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.)

Financial Summary

L'ANSE CREUSE PUBLIC SCHOOLS

Financial information provided as of: 6/17/2024

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

	Original Bond Issue)	Current Outstanding Principal Balance				Outsta	anding Principal Ba	ance as of Electio	n 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	
2/5/2015	Refunding	\$118,685,000		Non-Quailled	Non-voted	\$18,970,000	\$18,970,000			\$18,970,000			
6/2/2021	Refunding	149,500,000	131,705,000			131,705,000	131,705,000			131,705,000	3.50		
1/23/2023	Refunding	39,580,000	37,075,000			37,075,000	37,075,000			37,075,000	1.50		
						0				0			
						0				0			
						0				0			
Total			\$187,750,000	\$0	\$0	\$187,750,000	\$187,750,000	\$0	\$0	\$187,750,000	7.00	7.00	

Have proceeds of all existing bonds been spent?

The district has approximately \$400k of bond proceeds remaining, and district anticipates all bond proceeds will be spent in the near future.

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	\$188,700,000	25 years	4.75%	\$147,971,419	\$13,005,718	\$160,977,137	2.29	0.00
Proposal 2								
Proposal 3								
Proposal 4								
Combined Issue	\$188,700,000			\$147,971,419	\$13,005,718	\$160,977,137	2.29	0.00

(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				Millage			Est Amt to be Borrowed			
Mandatory Final	Estimated SBLF				Initial Computed	Estimated Duration	Maximum Millage	Existing Bonds	Existing Bonds	Proposed Bonds	Proposed Bonds
SBLF Loan	Balance as of	SBLF Beginning	Projected SBLF	Estimated SBLF		of Computed	without SBLF	Amount to be	Interest to be	Amount to be	Interest to be
Repayment Date	Election Date	Date	End Date	Interest Rate	Millage	Millage	Participation	borrowed	accrued	borrowed	accrued
2046	25,336,495	2006	2036	5.00%	7.00	10	7.74	\$0	\$4,151,022	\$7,790,232	\$13,005,718

D. Property Tax Assumptions

Curi	rent		Grow	th Rate	Property Ta	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 District
2024	\$3,476,945,362	5.49%	2.30%	5.49%	2.30%	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. Key Financial Measures

1st Year Millage Increase	Total Debt to Taxable Value	Weighted Average Maturity of Bonds	120% of Average Useful Life of Assets	Current & Proposed Bond Debt plus SBLF Debt	Total Loans do not exceed 25% of the Taxable Value
0.00	11.56%	16.51	26.47	\$401,786,495	TRUE

F. Bond Issuance

Series/		Dated	Construction Fund	Construction Fund
Proposal	Amount	Date	Beg. Date	End Date
1	\$110,000,000	1/20/2025	1/20/2025	12/1/2027
2	78,700,000	6/1/2027	6/1/2027	12/1/2029
3				
4				
5				

G. Certification

The financial impact presented herein 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 Nate Watson

Firm PFM Financial Advisors LLC



\$110,000,000 L'ANSE CREUSE PUBLIC SCHOOLS 2025 SCHOOL BUILDING AND SITE BONDS

		BOND	SIZING SCHEDULE	
ESTIMATED BOND ISSUANCE	COSTS			
Bond Discount	1.090%	\$1,199,000	ESTIMATED OTHER COSTS	
Bond Insurance		0	Reimbursable Election Costs	\$5,143
Bond Attorney Fee		137,485	Capitalized Interest	0
Financial Consultant Fee		126,000	Other	0
Credit Rating		77,000	TOTAL OTHER COSTS	\$5,143
Qualification of Bonds		26,000	BOND SIZING	
Official Statement Printing & Mail	ing	2,500	Total Bond Issuance and Other Costs	\$1,577,378
Notice of Sale Publication		1,800	Total Project Expenditures	110,000,000
Treasury Filing Fee(s)		1,000	Total Project, Issuance & Other Costs	111,577,378
Auditor's Consent Fee		500	Less Original Issue Premium	0
Paying Agent Upfront Fee		500	Less Estimated Construction Fund Earnings	(1,577,378)
Municipal Advisory Council Fee		450	Less Other Adjustments	0
TOTAL BOND ISSUANCE COST	rs	\$1,572,235	AMOUNT OF BOND ISSUE	\$110,000,000

PROJECT FUND DRAWS AND EARNINGS SECTION

		nated Expenditu	res Ave	erage Life =	1.45 years			
•	Project	Issuance &				Project Fund	Estimated	Projected
Date	Expenditures	Other Costs	Totals	Month	Payout %	Balance	Interest Rate	Interest Earned
Jan 25						\$110,000,000		
Jan 25	\$4,715,146	\$1,577,378	\$6,292,524	1	5.64%	103,707,476	1.00%	\$86,423
Feb 25	3,295,640		3,295,640	2	8.59%	100,498,259	1.00%	83,749
Mar 25	141,520		141,520	3	8.72%	100,440,487	1.00%	83,700
Apr 25	233,712		233,712	4	8.93%	100,290,476	1.00%	83,575
May 25	482,076		482,076	5	9.36%	99,891,975	1.00%	83,243
Jun 25	2,467,127		2,467,127	6	11.57%	97,508,091	1.00%	81,257
Jul 25	1,275,119		1,275,119	7	12.72%	96,314,230	1.00%	80,262
Aug 25	1,651,853		1,651,853	8	14.20%	94,742,639	1.00%	78,952
Sep 25	2,009,946		2,009,946	9	16.00%	92,811,645	1.00%	77,343
Oct 25	2,345,584		2,345,584	10	18.10%	90,543,404	1.00%	75,453
Nov 25	2,731,010		2,731,010	11	20.55%	87,887,846	1.00%	73,240
Dec 25	3,161,443		3,161,443	12	23.38%	84,799,643	1.00%	70,666
Jan 26	3,555,154		3,555,154	13	26.57%	81,315,155	1.00%	67,763
Feb 26	3,906,666		3,906,666	14	30.07%	77,476,252	1.00%	64,564
Mar 26	4,260,378		4,260,378	15	33.89%	73,280,437	1.00%	61,067
Apr 26	4,609,848		4,609,848	16	38.02%	68,731,657	1.00%	57,276
May 26	4,897,950		4,897,950	17	42.41%	63,890,983	1.00%	53,242
Jun 26	6,701,264		6,701,264	18	48.41%	57,242,962	1.00%	47,702
Jul 26	5,264,260		5,264,260	19	53.13%	52,026,404	1.00%	43,355
Aug 26	5,332,899		5,332,899	20	57.91%	46,736,861	1.00%	38,947
Sep 26	5,321,367		5,321,367	21	62.68%	41,454,442	1.00%	34,545
Oct 26	5,228,885		5,228,885	22	67.37%	36,260,103	1.00%	30,217
Nov 26	5,056,412		5,056,412	23	71.90%	31,233,907	1.00%	26,028
Dec 26	4,806,655		4,806,655	24	76.21%	26,453,280	1.00%	22,044
Jan 27	4,484,002		4,484,002	25	80.23%	21,991,323	1.00%	18,326
Feb 27	4,123,967		4,123,967	26	83.92%	17,885,682	1.00%	14,905
Mar 27	3,733,447		3,733,447	27	87.27%	14,167,140	1.00%	11,806
Apr 27	3,290,535		3,290,535	28	90.22%	10,888,411	1.00%	9,074
May 27	2,803,890		2,803,890	29	92.73%	8,093,595	1.00%	6,745
Jun 27	2,332,275		2,332,275	30	94.82%	5,768,065	1.00%	4,807
Jul 27	1,933,725		1,933,725	31	96.55%	3,839,146	1.00%	3,199
Aug 27	1,414,214		1,414,214	32	97.82%	2,428,131	1.00%	2,023
Sep 27	1,033,239		1,033,239	33	98.75%	1,396,916	1.00%	1,164
Oct 27	745,077		745,077	34	99.41%	653,002	1.00%	544
Nov 27	449,880		449,880	35	99.82%	203,667	1.00%	170
Dec 27	203,836		203,836	36	100.00%	0	1.00%	0
Jan 28	0		0	37	100.00%	0	1.00%	0
•	\$110,000,000	\$1,577,378	\$111,577,378					\$1,577,378
e Creuse 6.10.24	PQ Millage 2025	Sizing						N <u></u> <u></u> 71



PQ Millage 2027

\$78,700,000 L'ANSE CREUSE PUBLIC SCHOOLS 2027 SCHOOL BUILDING AND SITE BONDS

•	ESTIMATED OTHER COSTS	
•	ESTIMATED OTHER COSTS	
0		
U	Reimbursable Election Costs	\$0
108,024	Capitalized Interest	0
95,830	Other	933
64,000	TOTAL OTHER COSTS	\$933
19,600	BOND SIZING	
2,000	Total Bond Issuance and Other Costs	\$1,128,856
1,800	Total Project Expenditures	78,700,000
1,000	Total Project, Issuance & Other Costs	79,828,856
500	Less Original Issue Premium	0
500	Less Estimated Construction Fund Earnings	(1,128,857)
450	Less Other Adjustments	0
\$1,127,924	AMOUNT OF BOND ISSUE	\$78,700,000
	108,024 95,830 64,000 19,600 2,000 1,800 1,000 500 450	108,024 Capitalized Interest 95,830 Other 64,000 TOTAL OTHER COSTS 19,600 BOND SIZING 2,000 Total Bond Issuance and Other Costs 1,800 Total Project Expenditures 1,000 Total Project, Issuance & Other Costs 500 Less Original Issue Premium

PROJECT FUND DRAWS AND EARNINGS SECTION

	Estin	nated Expenditur	res Av	erage Life =	1.45 years			
•	Project	Issuance &				Project Fund	Estimated	Projected
Date	Expenditures	Other Costs	Totals	Month	Payout %	Balance	Interest Rate	Interest Earne
Jun 27						\$78,700,000		
Jun 27	\$1,089,249	\$1,128,856	\$2,218,106	1	2.78%	76,481,894	1.00%	\$63,73
Jul 27	119,413		119,413	2	2.93%	76,426,217	1.00%	63,68
Aug 27	197,168		197,168	3	3.18%	76,292,737	1.00%	63,57
Sep 27	272,175		272,175	4	3.52%	76,084,139	1.00%	63,40
Oct 27	343,391		343,391	5	3.95%	75,804,151	1.00%	63,17
Nov 27	409,828		409,828	6	4.46%	75,457,493	1.00%	62,88
Dec 27	470,571		470,571	7	5.05%	75,049,803	1.00%	62,54
Jan 28	524,787		524,787	8	5.71%	74,587,558	1.00%	62,15
Feb 28	757,199		757,199	9	6.66%	73,892,515	1.00%	61,57
Mar 28	1,289,840		1,289,840	10	8.27%	72,664,251	1.00%	60,55
Apr 28	1,926,788		1,926,788	11	10.68%	70,798,017	1.00%	58,99
May 28	3,217,512		3,217,512	12	14.71%	67,639,503	1.00%	56,36
Jun 28	5,103,833		5,103,833	13	21.11%	62,592,037	1.00%	52,16
Jul 28	5,241,429		5,241,429	14	27.67%	57,402,768	1.00%	47,83
Aug 28	4,693,312		4,693,312	15	33.55%	52,757,291	1.00%	43,96
Sep 28	4,352,068		4,352,068	16	39.01%	48,449,187	1.00%	40,37
Oct 28	4,613,796		4,613,796	17	44.78%	43,875,766	1.00%	36,56
Nov 28	4,784,118		4,784,118	18	50.78%	39,128,211	1.00%	32,60
Dec 28	4,859,307		4,859,307	19	56.86%	34,301,511	1.00%	28,58
Jan 29	4,837,605		4,837,605	20	62.92%	29,492,490	1.00%	24,57
Feb 29	4,719,254		4,719,254	21	68.84%	24,797,813	1.00%	20,66
Mar 29	4,506,506		4,506,506	22	74.48%	20,311,972	1.00%	16,92
Apr 29	4,203,565		4,203,565	23	79.75%	16,125,335	1.00%	13,43
May 29	3,816,509		3,816,509	24	84.53%	12,322,263	1.00%	10,26
Jun 29	3,374,726		3,374,726	25	88.76%	8,957,806	1.00%	7,46
Jul 29	2,887,246		2,887,246	26	92.37%	6,078,025	1.00%	5,06
Aug 29	2,342,557		2,342,557	27	95.31%	3,740,533	1.00%	3,11
Sep 29	1,751,884		1,751,884	28	97.50%	1,991,765	1.00%	1,66
Oct 29	1,127,383		1,127,383	29	98.91%	866,042	1.00%	72
Nov 29	608,008		608,008	30	99.68%	258,756	1.00%	21
Dec 29	258,972		258,972	31	100.00%	0		
Jan 30	0		0	32	100.00%	0	1.00%	
•	\$78,700,000	\$1,128,856	\$79,828,856					\$1,128,85
								N



PQ Millage

\$188,700,000 L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN 2025, 2027 SCHOOL BUILDING AND SITE BONDS (GENERAL OBLIGATION - UNLIMITED TAX)

ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT

Jan 20, 25 Jun 1, 27 Dated Date: First Payment: Nov 1, 25 < 9 Months Nov 1, 27 First Levy: Jul 1, 27 Jul 1, 25 Capitalized Int: \$0 \$0 Debt/TV^[1]: 8.55% 7.92% Bond Term: 24 yrs., 3.4 mo. 24 yrs., 11 mo. 1:5 Ratio: TRUE TRUE 16.86 16.01 Average Life: 23.27 120% ProjUsefulLife: 29.40

4.75%

Series 2027

\$78,700,000

4.75%

Series 2025

Amount:

TIC:

\$110,000,000

Ballot Information Election Date First Yr. Millage 0.00 Avg. Millage

Levy Cycle July Only Millage Impact 7.00 7.00 Current Net Increase 0.00

Current Interest Bonds \$147,971,419 17,156,740 School Bond Loan Fund Less SBLF Interest on Prior Bonds (4,151,022) \$160,977,137 Total Interest Cost

Last SBLF Borrowing: 2030 Last SBLF Repayment: 2036 Mandatory Repayment: 2046

School Bond Loan Fund Interest Rate

Interest Factor

0.85

Fiscal Existing Tax Vear UTQ Debt Interest Debt Interest Principal Due Nov 1 May 1 Rate May 1 Service Serv	5.00%
Year End \$187,750,000 Nov 1 May 1 Rate May 1 Service Amount [3] 8.0% \$1,588,468 Debt Tax Base [4] Rate Avg. 2.29 Debt Debt Balance Repaid During Year 2024 2025 \$21,448,654 \$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% \$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	
2024 2025 \$21,448,654 \$0 \$24,939,309 \$3,482,945,362 \$6.72% \$6.08 7.00 \$24,939,309 \$3,192,568 \$1,235,55 \$2025 2026 21,461,662 4,078,403 2,612,500 4,750% 1,975,000 7,200,000 0 0 622,586 0 0 27,529,980 3,674,257,397 5,49% 0.00 7.49 7.00 22,982,242 (1,810,178) 1,162,7 2026 2027 21,463,052 2,612,500 2,612,500 4,750% 1,975,000 7,200,000 0 (622,586) 0 0 31,660,529 4,088,983,973 5,49% 0.00 7.74 7.00 28,169,007 (3,037,641) 1,434,66 2,244,861 2,538,281 4,750% 1,2	Year End
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Balance
2026 2027 21,463,052 2,612,500 2,612,500 4,750% 1,975,000 7,200,000 0 0 0 (622,586) 0 0 28,040,466 3,876,077,864 5.49% 0.00 7.23 7.00 25,955,198 (907,921) 1,305,8 2027 2028 21,470,198 2,565,594 2,565,594 2,565,594 4.750% 1,150,000 6,281,188 1,105,000 4,531,729 (622,586) 0 0 31,660,529 4,088,983,973 5.49% 0.00 7.74 7.00 28,169,007 (3,037,641) 1,434,6 2028 2029 21,462,891 2,538,281 2,538,281 4.750% 1,200,000 6,276,563 1,205,000 4,890,763 (622,586) 0 0 32,007,631 4,313,584,638 5.49% 0.56 7.42 7.00 32,641,313 (1,812,538) 1,646,5 2029 2030 21,445,107 2,509,781 2,509,781 4.750% 1,300,000 6,319,563 1,305,000 4,933,525 (622,586) 0 0 32,075,609 4,550,522,221 5.49% 2.41 7.05 7.00 36,100,793 (221,954) 1,807,5 2030 2031 21,424,890 2,478,906 2,478,906 4.750% 1,400,000 6,357,813 1,405,000 4,971,538 (622,586) 0 0 32,075,609 4,550,522,221 5.49% 2.41 7.05 7.00 38,130,277 454,842 1,902,8 2031 2032 21,136,198 2,445,656 2,445,656 4.750% 1,500,000 6,391,313 1,505,000 5,004,800 (622,586) 0 0 31,909,725 4,762,313,733 2.30% 2.65 6.70 7.00 39,578,293 1,426,471 1,968,4 2032 2033 11,688,592 2,410,031 2,410,031 4.750% 2,050,000 6,870,063 1,890,000 5,318,313 (622,586) 0 0 23,254,381 4,871,877,774 2.30% 4.68 4.77 7.00 40,120,257 10,848,764 1,914,500 1,914,	\$22,982,242
2027 2028 21,470,198 2,565,594 2,565,594 4.750% 1,150,000 6,281,188 1,105,000 4,531,729 (622,586) 0 0 31,660,529 4,088,983,973 5.49% 0.00 7.74 7.00 28,169,007 (3,037,641) 1,434,6202	25,955,198
2028 2029 21,462,891 2,538,281 2,538,281 4.750% 1,200,000 6,276,563 1,205,000 4,890,763 (622,586) 0 0 32,007,631 4,313,584,638 5.49% 0.56 7.42 7.00 32,641,313 (1,812,538) 1,646,90 2029 2030 21,445,107 2,509,781 2,509,781 2,509,781 4,750% 1,300,000 6,319,563 1,305,000 4,933,525 (622,586) 0 0 32,075,609 4,550,522,221 5.49% 2.41 7.05 7.00 36,100,793 (221,954) 1,807,5 2030 2031 21,424,890 2,478,906 2,478,906 4,750% 1,400,000 6,357,813 1,405,000 4,971,538 (622,586) 0 0 32,131,654 4,655,213,686 2.30% 2.49 6.90 7.00 38,130,277 454,842 1,902,80 2031 2032 21,136,198 2,445,656 2,445,656 4,750% 1,500,000 6,870,063 1,890,000 5,318,313 (622,586) 0 0 31,909,725 4,762,313,733 2.30% 2.65 6.70 <	28,169,007
2029 2030 21,445,107 2,509,781 2,509,781 4.750% 1,300,000 6,319,563 1,305,000 4,933,525 (622,586) 0 0 32,075,609 4,550,522,221 5.49% 2.41 7.05 7.00 36,100,793 (221,954) 1,807,5203	32,641,313
2030 2031 21,424,890 2,478,906 2,478,906 2,478,906 4.750% 1,400,000 6,357,813 1,405,000 4,971,538 (622,586) 0 0 32,131,654 4,655,213,686 2.30% 2.49 6.90 7.00 38,130,277 454,842 1,902,8 6.90 7.00 2031 2032 21,136,198 2,445,656 2,445,656 4.750% 1,500,000 6,391,313 1,505,000 5,004,800 (622,586) 0 0 31,909,725 4,762,313,733 2.30% 2.65 6.70 7.00 39,578,293 1,426,471 1,968,40 2032 2033 11,688,592 2,410,031 2,410,031 4.750% 2,050,000 6,870,063 1,890,000 5,318,313 (622,586) 0 0 23,254,381 4,871,877,774 2.30% 4.68 4.77 7.00 40,120,257 10,848,764 1,914,50 2.80 2.80 2.80 2.80 2.80 2.80 2.80 2.8	36,100,793
2031 2032 21,136,198 2,445,656 2,445,656 4.750% 1,500,000 6,391,313 1,505,000 5,004,800 (622,586) 0 0 31,909,725 4,762,313,733 2.30% 2.65 6.70 7.00 39,578,293 1,426,471 1,968,4 2032 2033 11,688,592 2,410,031 2,410,031 4.750% 2,050,000 6,870,063 1,890,000 5,318,313 (622,586) 0 0 23,254,381 4,871,877,774 2.30% 4.68 4.77 7.00 40,120,257 10,848,764 1,914,93	38,130,277
2032 2033 11,688,592 2,410,031 2,410,031 4.750% 2,050,000 6,870,063 1,890,000 5,318,313 (622,586) 0 0 23,254,381 4,871,877,774 2.30% 4.68 4.77 7.00 40,120,257 10,848,764 1,914,50	39,578,293
	40,120,257
2033 2034 11,513,299 2,361,344 2,361,344 4.750% 2,170,000 6,892,688 2,010,000 5,348,538 (622,586) 0 0 23,131,938 4,983,962,497 2.30% 4.73 4.64 7.00 31,186,416 11,755,800 1,458,7	31,186,416
	20,889,324
2034 2035 11,328,956 2,309,806 2,309,806 4.750% 2,290,000 6,909,613 2,260,000 5,503,063 (622,586) 0 0 23,119,045 5,098,625,895 2.30% 4.82 4.53 7.00 20,889,324 12,571,336 936,8	9,254,805
2035 2036 3,420,313 2,255,419 2,255,419 4.750% 5,115,000 9,625,838 2,460,000 5,595,713 (622,586) 0 0 18,019,277 5,215,927,292 2.30% 4.68 3.45 5.30 9,254,805 9,636,501 381,6	0
2036 2037 3,297,125 2,133,938 2,133,938 4.750% 5,315,000 9,582,875 2,585,000 5,603,863 (471,580) 0 0 18,012,282 5,335,927,381 2.30% 2.85 3.38 3.38 0 0	0
2037 2038 3,169,500 2,007,706 2,007,706 4.750% 5,525,000 9,540,413 2,705,000 5,601,075 (300,234) 0 0 18,010,754 5,458,688,249 2.30% 2.77 3.30 3.30 0 0	0
2038 2039 3,047,625 1,876,488 1,876,488 4.750% 5,745,000 9,497,975 2,835,000 5,602,588 (293,457) 0 0 17,854,730 5,584,273,412 2.30% 2.70 3.20 3.20 0 0	0
2039 2040 2,941,313 1,740,044 1,740,044 4.750% 5,975,000 9,455,088 3,120,000 5,752,925 (284,373) 0 0 17,864,952 5,712,747,846 2.30% 2.66 3.13 3.13 0 0 0	0
2040 2041 0 1,598,138 1,598,138 4.750% 6,200,000 9,396,275 3,280,000 5,764,725 (278,136) 0 0 14,882,864 5,844,178,023 2.30% 2.59 2.55 2.55 0 0	0
2041 2042 0 1,450,888 1,450,888 4.750% 6,500,000 9,401,775 3,445,000 5,773,925 (226,498) 0 0 14,949,202 5,978,631,946 2.30% 2.54 2.50 2.50 0 0	0
2042 2043 0 1,296,513 1,296,513 4.750% 6,800,000 9,393,025 3,620,000 5,785,288 (222,391) 0 0 14,955,921 6,116,179,178 2.30% 2.48 2.45 2.45 0 0	0
2043 2044 0 1,135,013 1,135,013 4.750% 7,100,000 9,370,025 3,805,000 5,798,338 (217,487) 0 0 14,950,875 6,256,890,888 2.30% 2.42 2.39 2.39 0 0	0
2044 2045 0 966,388 966,388 4.750% 7,420,000 9,352,775 4,000,000 5,812,600 (212,525) 0 0 14,952,850 6,400,839,878 2.30% 2.37 2.34 2.34 0 0	0
2045 2046 0 790,163 790,163 4.750% 7,760,000 9,340,325 4,200,000 5,822,600 (207,772) 0 0 14,955,153 6,548,100,626 2.30% 2.32 2.28 2.28 0 0	0
2046 2047 0 605,863 605,863 4.750% 8,120,000 9,331,725 4,410,000 5,833,100 (203,131) 0 0 14,961,694 6,698,749,324 2.30% 2.26 2.23 2.23 0 0	0
2047 2048 0 413,013 413,013 4.750% 8,500,000 9,326,025 4,630,000 5,843,625 (198,650) 0 0 14,971,000 6,852,863,918 2.30% 2.21 2.18 2.18 0 0	0
2048 2049 0 211,138 211,138 4.750% 8,890,000 9,312,275 4,860,000 5,853,700 (194,303) 0 0 14,971,672 7,010,524,145 2.30% 2.16 2.14 2.14 0 0	0
2049 2050 0 0 0 4.750% 0 0 5,105,000 5,867,850 (189,942) 0 0 5,677,908 7,171,811,578 2.30% 0.82 0.79 0.79 0 0	0
2050 2051 0 0 0 4.750% 0 0 5,360,000 5,880,363 (70,414) 0 0 5,809,948 7,336,809,665 2.30% 0.80 0.79 0.79 0 0	0
2051 2052 0 0 0 4.750% 0 0 5,595,000 5,860,763 (70,431) 0 0 5,790,331 7,505,603,777 2.30% 0.78 0.77 0.77 0 0	(0)
2052 2053 0 0 0 4.750% 0 0 0 0 0 0 0 0 0 0 7,678,281,245 2.30% 0.00 0.00 (0)	, 0
\$221,719,374 \$44,791,009 \$43,325,106 \$110,000,000 \$198,116,115 \$78,700,000 \$138,555,304 (\$11,112,352) \$1,950,449 (\$1,588,468) \$547,640,423	

NOTE: The Mills to be Levied is estimated. The actual millage shall be determined ANNUALLY by the Department of Treasury.

[1] Includes \$187,750,000 of Existing UT Debt and \$0 of Existing LTNQ Debt

[2] Includes \$6,000,000 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2025.
[3] Based on \$88,940,800 of Exempt Personal Property for 2024

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L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN EXISTING DEBT BEFORE ADDITIONAL BONDING

2015 REFUNDING BONDS - UTQ

Tax-Type: Unlimited Tax Qualified Original Amount: \$118,685,000 Net Interest Cost: 3.779% Call Date: 05/01/2025 Voter Approved Before 2015: Yes Dated: 02/05/2015

2021 REFUNDING BONDS - UTQ

Tax-Type: Unlimited Tax Qualified Original Amount: \$149,500,000 Net Interest Cost: 1.979% Call Date: 05/01/2030 Voter Approved Before 2015: Yes Dated: 06/02/2021

Levy Year	FY End Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service	Interest Nov		Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service
2024	2025	\$385,031	\$385,031	5.000%	\$4,695,000	\$5,465,063	\$1,164	,921	\$1,164,921	0.876%	\$9,160,000	\$11,489,842
2025	2026	267,656	267,656	5.000%	0	535,313	1,124	,800	1,124,800	1.126%	14,175,000	16,424,600
2026	2027	267,656	267,656	5.000%	0	535,313	1,044	,995	1,044,995	1.443%	14,335,000	16,424,989
2027	2028	267,656	267,656	5.000%	0	535,313	941	,568	941,568	1.643%	14,550,000	16,433,135
2028	2029	267,656	267,656	5.000%	0	535,313	822	,039	822,039	1.841%	14,790,000	16,434,079
2029	2030	267,656	267,656	5.000%	0	535,313	685	,897	685,897	1.941%	15,055,000	16,426,795
2030	2031	267,656	267,656	5.000%	0	535,313	539	,789	539,789	2.041%	15,345,000	16,424,577
2031	2032	267,656	267,656	5.000%	0	535,313	383	,193	383,193	2.141%	15,395,000	16,161,386
2032	2033	267,656	267,656	5.000%	0	535,313	218	,390	218,390	2.211%	6,300,000	6,736,779
2033	2034	267,656	267,656	5.000%	0	535,313	148	,743	148,743	2.311%	6,300,000	6,597,486
2034	2035	267,656	267,656	5.000%	0	535,313	75	,947	75,947	2.411%	6,300,000	6,451,893
2035	2036	267,656	267,656	3.750%	2,885,000	3,420,313		0	0	0.000%	0	0
2036	2037	213,563	213,563	3.750%	2,870,000	3,297,125		0	0	0.000%	0	0
2037	2038	159,750	159,750	3.750%	2,850,000	3,169,500		0	0	0.000%	0	0
2038	2039	106,313	106,313	3.750%	2,835,000	3,047,625		0	0	0.000%	0	0
2039	2040	53,156	53,156	3.750%	2,835,000	2,941,313		0	0	0.000%	0	0
2040	2041	0	0	0.000%	0	0		0	0	0.000%	0	0
2041	2042	0	0	0.000%	0	0		0	0	0.000%	0	0
	Totals:	\$3,862,031	\$3,862,031		\$18,970,000	\$26,694,063	\$7,150	,281	\$7,150,281		\$131,705,000	\$146,005,561



L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN EXISTING DEBT BEFORE ADDITIONAL BONDING

2023 REFUNDING BONDS - UTQ

Tax-Type: Unlimited Tax Qualified Original Amount: \$39,580,000 Net Interest Cost: 5.000% Call Date: 05/01/2033 Voter Approved Before 2015: Yes

			Dated: 01/2	23/2023			TOTAL UTQ		
Levy Year	FY End Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service	Principal	Total Debt Service	
2024	2025	\$926,875	\$926,875	5.000%	\$2,640,000	\$4,493,750	\$16,495,000	\$21,448,654	
2025	2026	860,875	860,875	5.000%	2,780,000	4,501,750	16,955,000	21,461,662	
2026	2027	791,375	791,375	5.000%	2,920,000	4,502,750	17,255,000	21,463,052	
2027	2028	718,375	718,375	5.000%	3,065,000	4,501,750	17,615,000	21,470,198	
2028	2029	641,750	641,750	5.000%	3,210,000	4,493,500	18,000,000	21,462,891	
2029	2030	561,500	561,500	5.000%	3,360,000	4,483,000	18,415,000	21,445,107	
2030	2031	477,500	477,500	5.000%	3,510,000	4,465,000	18,855,000	21,424,890	
2031	2032	389,750	389,750	5.000%	3,660,000	4,439,500	19,055,000	21,136,198	
2032	2033	298,250	298,250	5.000%	3,820,000	4,416,500	10,120,000	11,688,592	
2033	2034	202,750	202,750	5.000%	3,975,000	4,380,500	10,275,000	11,513,299	
2034	2035	103,375	103,375	5.000%	4,135,000	4,341,750	10,435,000	11,328,956	
2035	2036	0	0	0.000%	0	0	2,885,000	3,420,313	
2036	2037	0	0	0.000%	0	0	2,870,000	3,297,125	
2037	2038	0	0	0.000%	0	0	2,850,000	3,169,500	
2038	2039	0	0	0.000%	0	0	2,835,000	3,047,625	
2039	2040	0	0	0.000%	0	0	2,835,000	2,941,313	
2040	2041	0	0	0.000%	0	0	0	0	
2041	2042	0	0	0.000%	0	0	0	0	
	Totals:	\$5,972,375	\$5,972,375		\$37,075,000	\$49,019,750	\$187,750,000	\$221,719,374	

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BEFORE ADDITIONAL BONDING

L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN

ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT BEFORE ADDITIONAL BONDING

Computed N	Computed Mills at time of last new money bond:					
Debt/TV ^[2] : 5.40%	2024 Qual. Debt Levy:	7.00				
Collection Cycle	Non-Qual. Levy:	0.00				
July Levy 100%	Total Levy:	7.00				

Mandatory Loan Repayment Date:	2046
Estimated Loan Repayment Date:	2029
SBLF Interest Rate:	5.00%

					Existing Unlimited Tax Qualified Debt & Mills						School Bon	d Loan Fund		
Levy	Fiscal	Projected Tax	Growth	Existing UTQ	Use of Funds on Hand	Delinquency Allowance	Exempt Pers. Property	Net UTQ	Needed All Qualified	Mills Levied Qualified	School Bond Loan Fund FY	(Borrowed) /	Accrued Interest During	F/Y Ending
Year	Year End	Base ^[1]	Rate	Payments	\$1,588,468	8.00%	Receipts ^[3]	Payments	Debt	Debt	Begin Balance	Repaid	Year	Balance
2024	2025	\$3,482,945,362	6.72%	\$21,448,654	(\$1,588,468)	\$1,950,449	(\$622,586)	\$21,188,050	6.08	7.00	\$24,939,309	\$3,192,568	\$1,235,501	\$22,982,242
2025	2026	3,674,257,397	5.49%	21,461,662	0	0	(622,586)	20,839,077	5.67	7.00	22,982,242	4,880,725	1,107,784	19,209,302
2026	2027	3,876,077,864	5.49%	21,463,052	0	0	(622,586)	20,840,466	5.38	7.00	19,209,302	6,292,079	906,955	13,824,178
2027	2028	4,088,983,973	5.49%	21,470,198	0	0	(622,586)	20,847,612	5.10	7.00	13,824,178	7,775,276	625,645	6,674,547
2028	2029	4,313,584,638	5.49%	21,462,891	0	0	(622,586)	20,840,306	4.83	6.44	6,674,547	6,949,684	275,137	(0)
2029	2030	4,550,522,221	5.49%	21,445,107	0	0	(572,995)	20,872,112	4.59	4.59	(0)	0	0	0
2030	2031	4,655,213,686	2.30%	21,424,890	0	0	(407,949)	21,016,941	4.51	4.51	0	0	0	0
2031	2032	4,762,313,733	2.30%	21,136,198	0	0	(401,542)	20,734,657	4.35	4.35	0	(0)	0	0
2032	2033	4,871,877,774	2.30%	11,688,592	0	0	(387,240)	11,301,352	2.32	2.32	0	0	0	0
2033	2034	4,983,962,497	2.30%	11,513,299	0	0	(206,317)	11,306,981	2.27	2.27	0	(0)	0	0
2034	2035	5,098,625,895	2.30%	11,328,956	0	0	(201,778)	11,127,178	2.18	2.18	0	0	0	0
2035	2036	5,215,927,292	2.30%	3,420,313	0	0	(194,103)	3,226,209	0.62	0.62	0	0	0	(0)
2036	2037	5,335,927,381	2.30%	3,297,125	0	0	(55,013)	3,242,112	0.61	0.61	(0)	0	0	0
2037	2038	5,458,688,249	2.30%	3,169,500	0	0	(54,040)	3,115,460	0.57	0.57	0	0	0	0
2038	2039	5,584,273,412	2.30%	3,047,625	0	0	(50,762)	2,996,863	0.54	0.54	0	0	0	0
2039	2040	5,712,747,846	2.30%	2,941,313	0	0	(47,731)	2,893,581	0.51	0.51	0	0	0	0
2040	2041	5,844,178,023	2.30%	0	0	0	O O	0	0.00	0.00	0	0	0	0
				\$221,719,374	(\$1,588,468)	\$1,950,449	(\$5,692,398)	\$216,388,957	- -				\$4,151,022	

^[1] Includes \$6,000,000 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2024.

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^[2] Includes principal outstanding: \$187,750,000 of unlimited tax bonds and \$0 of limited tax bonds

^[3] Based on \$88,940,800 of Exempt Personal Property for 2024



L'ANSE CREUSE PUBLIC SCHOOLS COUNTY OF MACOMB, STATE OF MICHIGAN Taxable Value History

		Exempt			Adjusted		
Levy	Taxable	Personal	Adjusted	T.V.	T.V.	5 Year	20 Year
Year	Value	Property	Total	Change	Change	Average	Average
2024	\$3,476,945,362	\$88,940,800	\$3,565,886,162	7.05%	6.72%	5.49%	2.30%
2023	3,248,047,706	93,375,814	3,341,423,520	7.08%	6.94%	5.19%	2.28%
2022	3,033,397,278	91,281,014	3,124,678,292	6.81%	6.24%	4.66%	2.17%
2021	2,840,039,441	101,083,914	2,941,123,355	3.23%	3.27%	4.10%	
2020	2,751,168,516	96,928,061	2,848,096,577	4.54%	4.30%	4.10%	
2019	2,631,676,862	98,929,364	2,730,606,226	5.28%	5.20%	3.75%	
2018	2,499,648,739	96,012,464	2,595,661,203	4.22%	4.31%	3.06%	
2017	2,398,532,196	89,957,117	2,488,489,313	2.83%	3.44%	1.85%	
2016	2,332,600,523	73,171,481	2,405,772,004	0.09%	3.23%	0.38%	
2015	2,330,483,582	0	2,330,483,582	2.55%	2.55%	(1.55)%	
2014	2,272,424,166	0	2,272,424,166	1.76%	1.76%	(3.39)%	
2013	2,233,038,503	0	2,233,038,503	(1.73)%	(1.73)%	(4.58)%	
2012	2,272,455,685	0	2,272,455,685	(3.89)%	(3.89)%	(3.92)%	
2011	2,364,429,928	0	2,364,429,928	(6.44)%	(6.44)%	(1.86)%	
2010	2,527,113,535	0	2,527,113,535	(6.66)%	(6.66)%	0.75%	
2009	2,707,443,818	0	2,707,443,818	(4.16)%	(4.16)%	3.36%	
2008	2,825,021,534	0	2,825,021,534	1.54%	1.54%	5.44%	
2007	2,782,106,909	0	2,782,106,909	6.41%	6.41%	6.08%	
2006	2,614,587,245	0	2,614,587,245	6.63%	6.63%		
2005	2,452,084,084	0	2,452,084,084	6.36%	6.36%		
2004	2,305,382,935	0	2,305,382,935	6.24%	6.24%		
2003	2,169,886,032	0	2,169,886,032	4.74%	4.74%		
2002	2,071,597,144	0	2,071,597,144				

Enrollment Projections

L'Anse Creuse Public Schools

50-140

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 Jeff Atkins, Barton Malow Builders

Source Stanfred Consultants

Explanation of Method Selected

1.5 Projections expecting enrollments to fall between the Most Likely and High projections, closer to the Most Likely projections - Two times the Most Likely projections, plus the High projections, divided by three

Subtotals by Grade:

	2018-19	2023-24	2028-29	(Col 4 - Col 3) / Col 3
Grade 1	Preceding 5-Year Enrollment 2	Current Enrollment	Projected 5-Year Enrollment 4	Projected Enrollment Change (%) 5
K		653	650	-0.46%
1		618	621	0.43%
2		664	621	-6.53%
3		656	634	-3.30%
4		692	659	-4.72%
5		690	648	-6.04%
6		706	666	-5.62%
7		759	714	-5.88%
8		681	699	2.69%
9		713	707	-0.84%
10		679	670	-1.28%
11		704	642	-8.76%
12		698	686	-1.77%
Total	9,928	8,913	8,619	-3.30%

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.

Atwood Elementary				Project No. [n]	1					
Proposal #:	Series 1	Series 2	n/a	n/a						
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	g					
	New addition	New addition	New addition	New addition						
The associated Cost	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,					
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a					
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page					
breakdown of costs for	Buses	Buses	Buses	Buses	for each.					
each checked box.	✓ Site work	✓ Site work	Site work	Site work						
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)						
	Site acquisition	Site acquisition	Site acquisition	Site acquisition						
Construction Cost Per	Square Foot									
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a						
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a						
Does this proposed project address any existing environmental or usability problems? (check all that apply)										
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements							
Other - please list:	1.	2.	3.							

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	312,443	1,821,291	0	0	2,133,734
Construction Contingencies	295,090	229,754	0	0	524,844
Instructional Technology	706,383	62,280	0	0	768,663
Loose Furnishing/Equipment	0	147,829	0	0	147,829
Buses	0	0	0	0	0
Site Work	1,932,076	266,138	0	0	2,198,214
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	250,123	195,736	0	0	445,860
CM Fees and Costs	314,927	272,745	0	0	587,672
Estimated Costs	3,811,042	2,995,774	0	0	6,806,816

I certify that	I have asse	ssed the	conditions	relative to	this fac	ility and th	e details	of the	proposed	project(s)	described	above	and the
attached de	tail relative t	o the con	struction p	roject(s) a	are true a	and correc	t to the b	est of r	ny knowle	edge and b	oelief.		

m 9.4m)	6/17/2024	PARTNERS in Architecture, PLC #447	23	
Signature		Date	Firm Name and License Number		
Michael A. Malone		mmalone@partners	inarch.com	586-469-3600	
Printed Name		E-mail Address		Phone Number	

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUS	SION F	PURPOSE ONLY			BARTOI	N MALOW I	BUILDERS
2024 Bond Program		rades:	K-5					
Atwood Elementary	Year	Built:	2004					
45690 North Ave, Macomb, MI	Building	Size:	69,296					
Building Project Work List		Size:			1.158		Date	: 6/6/24
	310	JIZC.	7.70			Total	Butc	. 0/0/24
Category Subcategory				Direct	Direct w/	Total w/ Indirect		Phase /
Description	Qty	Unit	: Unit Cost	Cost	Escalation	Costs	Priority	Series
REMODELING WORK								
Exterior Work								
Roofing								
roof work - priority 1		sqft	26.31	88,300	102,218	135,063	1	2
roof work - priority 2 Envelope	13,245	sqft	26.31	348,500	403,432	533,063	1	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior doors - high priority		ea	5,500.00	66,000	76,403	100,953	1	2
	Exterior Work Subtota	Ŀ		524,800	607,522	802,730		
Interior Work								
replace interior openings replace carpet (classrooms, media center, offices)	24.040		25,000.00 9.00	25,000	28,941	38,240	2 1	2
replace carpet (classrooms, media center, offices) replace architectural trim out/specialties	36,860 1	lpsm		331,700 28,500	383,984 32,992	507,366 43,593	1	2 1
replace architectural trilli out/specialities	Interior Work Subtota	_	20,300.00	385,200	445,917	589,199	'	'
Mechanical Systems					•			
Plumbing Work								
replace water heater, pump, water bottle filler, greas	se trap, & valves 1	lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System								
upgrade temperature controls upgrade temperature controls	69,296	saft	6.00	415,800	481,340	636,005	1	2
apgrade temperature controls	Mechanical Systems Subtota	_	0.00	491,800	569,320	752,254		
Electrical Systems	•		0.00	•	•	-		
Power								
electrical to support technology	33	ea	1,500.00	49,500	57,302	75,715	1	1
Lighting	1	lnam	17 000 00	17.000	10 / 00	24 002	1	2
upgrade building exterior lighting	Electrical Systems Subtotal	lpsm •	17,000.00	17,000 66,500	19,680 76,982	26,003 101,718	ı	
	Construction Subtota			1,468,300	1,699,741	2,245,901		
Technology Infrastructure					, ,			
demo coax/legacy cables		lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	69,296	sf	0.65	45,000	52,093	63,892	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate replace network switches - edge	1	ea ea	5,000.00 4,000.00	5,000 48,000	5,788 55,566	7,099 68,152	1 1	1
replace rack UPS		ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure		ea	1,200.00	44,400	51,399	63,040	1	2
upgrade phone system		lpsm	•	25,000	28,941	35,496	1	1
	Technology	nfrasti	ructure Subtotal:	180,800	209,299	256,705		
Technology Safety & Security								
upgrade security camera system		ea ea	1,500.00	45,000 10,500	52,093 12,155	63,892 14,908	1 1	1
replace entrance intercoms install emergency alert system	69,296		3,500.00 0.75	10,500 52,000	12,155 60,197	73,831	1	2
replace PA systems	69,296		1.25	86,600	100,250	122,957	1	2
			ecurity Subtotal:	194,100	224,695	275,588		
	Technology & Safety	nfrasti	ructure Subtotal:	374,900	433,994	532,293		
	RE	MODE	LING SUBTOTAL:	1,843,200	2,133,734	2,778,195		
SITE WORK								
Site Paving								
repave parking lot & sidewalks	103,200		11.78	1,215,700	1,407,325	1,859,526	1	1
Site Improvements		Site	Paving Subtotal:	1,215,700	1,407,325	1,859,526		
Site Improvements upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces		sqft	250,000.00	203,300	235,345	310,966	1	1
replace playground pavement surfaces	29,400		3.50	102,900	119,120	157,395	2	2
replace athletic fields, exterior courts, & furnishings	1		· · · · · · · · · · · · · · · · · · ·	75,000	86,822	114,719	2	2
upgrade site sign - digital	1		•	52,000	60,197	79,539	2	2
			vement Subtotal:	683,200	790,889	1,045,018		
		311E W	/ORK SUBTOTAL:	1,898,900	2,198,214	2,904,544		
INSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSS	ION PL	RPOSE ONLY			BARTOI	N MALOW I	BUILDERS
2024 Bond Program	Gr	ades: I	(-5					
Atwood Elementary	Year	Built: 2	2004					
45690 North Ave, Macomb, MI	Building	Size 6	59 296					
	-				1 150		Data	
Building Project Work List	Site	Size: S	7.90		1.158		Date	: 6/6/24
Category					Direct	Total		
Subcategory	•			Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
teacher computers (desktop + 1:1 device)	35	each	1,250.00	43,800	50,704	62,188	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	721	each	400.00	288,200	333,628	409,194	1	1
mobile device storing/charging (classroom)	30	each	400.00	12,000	13,892	17,038	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	30	each	9,000.00	270,000	312,559	383,353	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTI	RUCTION	IAL TECHNOLOG	Y SUBTOTAL:	768,663	942,765		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	14,800	17,133	21,013	1	2
	N	on-Inst	ructional Equipm	ent Subtotal:	32,761	40,181		
Furniture, Furnishings & Equipment (FFE)								
purchase furniture	1	lpsm	99,428	99,400	115,068	141,131	2	2
				&E Subtotal:	115,068	141,131		
			F, F, & I	E SUBTOTAL:	147,829	181,312		
			PRO	JECT TOTAL:	5,248,440	6,806,816	_	
			Construction	Contingency:	524,844			
Notes:			Permits / Genera	al Conditions:	171,510			
Scope of work is conceptual and will be detailed throughou			Design	Consultants:	445,860			
Indirect Costs include; contingency, general conditions & p	orofessional fees			C.M. Costs:	416,162			
			BUIL	DING TOTAL:	6,806,816			

Building Utilization

School Building Name

Atwood Elementary

Project No. [n] 1

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

- 1. List the number of teaching stations 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	10	20	200
(3-5) Upper Elementary	14	25	350
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	24		550
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	_		Capacity 0
•	Stations	Factor	
(K-2) Lower Elementary	Stations 0	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Stations 0 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Stations 0 0 0	20 25 22.5	0 0 0

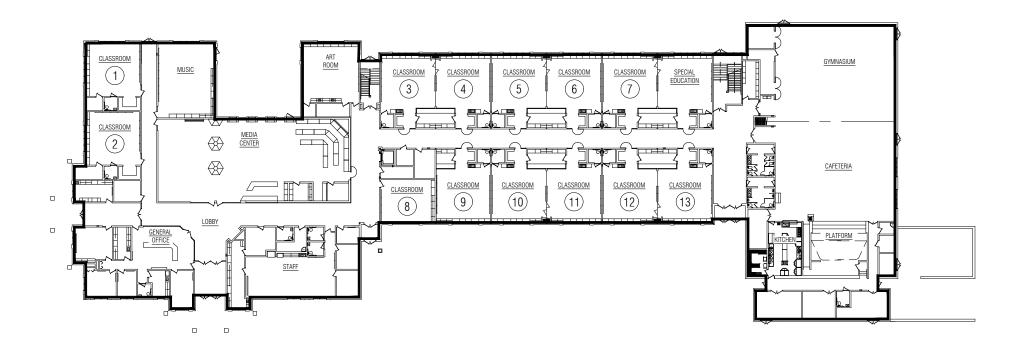
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment ___570

Utilization Percentage __104%

(Projected 5-Year Enrollment / Total Capacity)

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

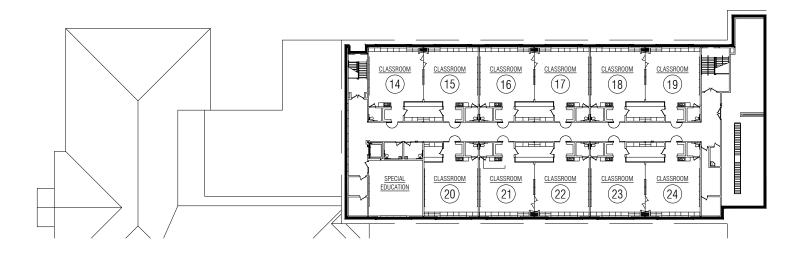




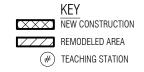
















Carkenord Elementary	rkenord Elementary					
Proposal #:	Series 1	Series 2	n/a	n/a		
	New stand-alone bld	g New stand-alone blo		New stand-alone blo	lg	
	New addition	New addition	New addition	New addition		
The associated Cost	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,	
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a	
a clear, concise, and detailed explanation and breakdown of costs for each checked box.	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page	
	Buses	Buses	Buses	Buses	for each.	
	✓ Site work	✓ Site work	Site work	Site work		
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)		
	Site acquisition	Site acquisition	Site acquisition	Site acquisition		
Construction Cost Per	Square Foot					
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a		
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a		
Does this proposed project	address any existing	g environmental or us	ability problems? (cl	heck all that apply)		
None noted	Asbestos abatement		ADA requirements			
Other - please list:	1.	2.	3.			

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	4,866,961	455,815	0	0	5,322,776
Construction Contingencies	665,035	93,834	0	0	758,870
Instructional Technology	697,539	60,775	0	0	758,314
Loose Furnishing/Equipment	0	147,397	0	0	147,397
Buses	0	0	0	0	0
Site Work	1,085,852	274,357	0	0	1,360,209
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	566,486	79,632	0	0	646,118
CM Fees and Costs	787,152	102,815	0	0	889,967
Estimated Costs	8,669,024	1,214,626	0	0	9,883,651

I certify that	l have assesse	d the conditions	relative to	this facility	and the	details of	f the pr	oposed	project(s)	described	above a	and the
attached det	ail relative to th	e construction p	roject(s) ar	e true and	correct t	to the bes	st of my	/ knowle	dge and b	elief.		

4m Q.4m	6/17/2024	PARTNERS in Architecture, PLC #	44723
Signature	Date	Firm Name and Licens	se Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO						BARTUI	MALOW E	OUILDE
2024 Bond Program	Gr	ades: I	<- 5					
arkenord Elementary	Year	Built:	2001					
27100 24-Mile Road, Chesterfield, MI	Building	Size:	39,375					
Building Project Work List		Size: :			1.158		Date	: 6/6/24
	5113	75.25.			Direct	Total		. 0, 0, 2
regory Subcategory				Direct	w/	w/ Indirect		Phas
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Seri
MODELING WORK Exterior Work								
Roofing								
roof work - priority 1	80,000	sqft	10.38	830,400	961,292	1,270,174	1	1
Envelope								
replace exterior masonry	1	lpsm	8,500	8,500	9,840	13,002	1	1
upgrade select exterior glazing	1	lpsm	22,000	22,000	25,468	33,651	1	1
replace select exterior envelope materials		lpsm	45,000	45,000	52,093	68,832	1	1
replace EIFS with metal panel	2,796	•	70.00	195,720	226,570	299,372	1	1
replace select exterior doors - high priority		ea	5,500	66,000	76,403	100,953	1	1
ntorio Mark	E	Exterior	Work Subtotal:	1,167,620	1,351,666	1,785,983		
replace casework (countertops and hardware)	1	lpsm	78,250.00	78,250	90,584	119,691	2	2
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	lpsm	167,500.00	167,500	193,902	256,207	2	2
replace carpet (classrooms, media center, offices)	50,500		9.00	454,500	526,141	695,200	1	1
replace VCT flooring (gym, cafeteria, service)	6,000		8.00	48,000	55,566	, 73,420	2	2
replace architectural trim out/specialties	1	lpsm	45,000.00	45,000	52,093	68,832	1	1
<u> </u>		Interior	Work Subtotal:	843,250	976,167	1,289,829		
Aechanical Systems								
Plumbing Work			7/ 000 00	7/ 000	07.000	11/0/0		
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
HVAC System			1 //2 222 22	1 //0 000	1 /00 /05	0.007.705		
replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	1,463,000.00	1,463,000	1,693,605	2,237,795	1	1
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	1
Integrated Automation	69,375	caft	6.00	416,250	481,861	636,693	1	1
upgrade temperature controls			stems Subtotal:	2,000,250	2,315,539	3,059,569	ı	·
Electrical Systems		cut o y t	atomo Gubtotati	2,000,200	2/010/007	0,007,007		
Power								
electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	1	1
Lighting								_
upgrade building exterior lighting		ea rical Cur	850.00 stems Subtotal:	14,450	16,728	22,103	1	1
		-	ction Subtotal:	62,450 4,073,570	72,294 4,715,666	95,523 6,230,904		
echnology Infrastructure		00110111	onon oubtotu	4,070,070	477.107000	0,200,704		
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	69,375	sf	0.65	45,094	52,202	64,025	1	1
replace fiber to IDFs	2	ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	16	ea	4,000.00	64,000	74,088	90,869	1	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure	40	ea	1,200.00	48,000	55,566	68,152	1	1
data center (disaster recovery) - series 1	1	lpsm	75,000.00	75,000	86,822	106,487	1	1
data center (disaster recovery) - series 2	1	lpsm	50,000.00	50,000	57,881	70,991	2	2
upgrade phone system		lpsm	25,000.00	25,000	28,941	35,496	1	1
	Technology I	nfrastru	cture Subtotal:	330,194	382,241	468,818		
echnology Safety & Security upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms		ea ea	3,500.00	45,000 10,500	12,155	03,692 14,908	1	1
install emergency alert system	69,375		3,300.00 0.75	52,031	60,233	73,875	1	1
replace PA systems	69,375		1.25	86,719	100,388	73,675 123,126	1	1
			curity Subtotal:	194,250	224,869	275,801		
		-	cture Subtotal:	524,444	607,109	744,619		
. 55111000			NG SUBTOTAL:	4,598,014	5,322,776	6,975,524		
EWORK								
ite Paving								
repave north lot, drop off loop, & sidewalks	1	lpsm	525,500.00	525,500	608,332	803,801	1	1
· · · · · · · · · · · · · · · · · · ·		-	•	ring Subtotal:	608,332	803,801		
ite Improvements								
						382,398		

2024 Bond Program					BARTON MALOW BUILD			DOILDEKS
2024 Bolla i Tograffi	Gra	ades:	K-5					
Carkenord Elementary	Year I	Built:	2001					
27100 24-Mile Road, Chesterfield, MI	Building							
Building Project Work List		Size:		1.158			Data	: 6/6/24
	Site	JIZE.	23.00				Date	. 0/0/24
Category				Discot	Direct	Total w/ Indirect		Dhana /
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	W/ Indirect Costs	Priority	Phase / Series
Description	aty	Ollic	Ollit Cost	COST	Locatation	00313	Titority	301103
upgrade playground soft surfaces	6,500		25.00	162,500	188,114	248,559	1	1
replace playground pavement surfaces	50,000	ea	3.50	175,000	202,584	267,679	2	2
replace athletic fields, exterior courts, & furnishings	1	lpsm	10,000.00	10,000	11,576	15,296	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
			Site Improvement	ent Subtotal: (SUBTOTAL:	751,877 1,360,209	993,471 1,797,272		
INSTRUCTIONAL TRAINING COV			SITE WORL	(SODIOTAL.	1,300,207	1,171,212		
INSTRUCTIONAL TECHNOLOGY Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	34	each	1,250.00	42,500	49,199	60,343	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	725	each	400.00	289,960	335,665	411,693	1	1
mobile device storing/charging (classroom)	29	each	400.00	11,600	13,428	16,470	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual	_		.,	-1	-1	.,	•	•
classroom AV (display, sound, PA, doc camera)	29	each	9,000.00	261,000	302,140	370,575	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTR	UCTIO	NAL TECHNOLOGY	SUBTOTAL:	758,314	930,072		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	14,400	16,670	20,446	1	2
5 11 5 111 05 1 1/5FF	No	on-Inst	tructional Equipm	ent Subtotal:	32,298	39,613		
Furniture, Furnishings & Equipment (FFE)	1	Incm	99,427.50	00 /20	115 100	1/1 170	2	2
purchase furniture	ı	lpsm	•	99,428 &E Subtotal :	115,100 115,100	141,170 141,170		
				E SUBTOTAL:	147,397	180,783		
				JECT TOTAL:	7,588,696	9,883,651		
Notes			Construction (758,870 267,339			
Notes: Scope of work is conceptual and will be detailed througho	ut the design phase		Permits / Genera	Consultants:	267,339 646,118			
Indirect Costs include; contingency, general conditions &			Design	C.M. Costs:	622,628			
mairect costs include, contingency, general conditions &	Jioles sionaciees		- BIIII	DING TOTAL:	9,883,651			

Building Utilization

School Building Name

Carkenord Elementary

Project No. [n] 2

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

- 1. List the number of teaching stations 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	10	20	200
(3-5) Upper Elementary	14	25	350
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	24		550
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
-	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

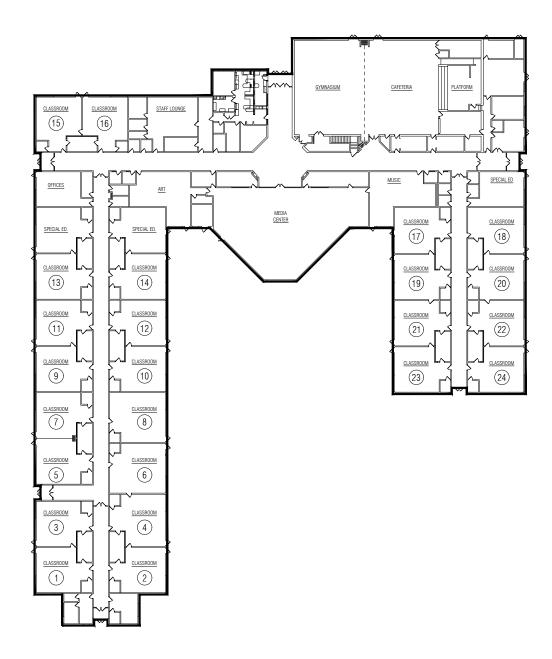
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment ___570

Utilization Percentage __104%

(Projected 5-Year Enrollment / Total Capacity)

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











Graham Elementary & Ear	Project No. [n]	3			
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for	New addition	New addition	New addition	New addition	
	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
	Buses	Buses	Buses	Buses	for each.
each checked box.	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	g environmental or us	sability problems? (c	heck all that apply)	
None noted	Asbestos abatement		ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Calumated Cost of 1 10p				1 0	T-1-1
Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	3,658,152	263,971	0	0	3,922,123
Construction Contingencies	458,242	126,997	0	0	585,239
Instructional Technology	498,844	56,434	0	0	555,278
Loose Furnishing/Equipment	0	137,326	0	0	137,326
Buses	0	0	0	0	0
Site Work	425,427	812,238	0	0	1,237,666
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	390,783	107,705	0	0	498,488
CM Fees and Costs	554,771	137,207	0	0	691,978
Estimated Costs	5,986,219	1,641,879	0	0	7,628,098

I certify that I ha	ve assessed the	conditions r	relative to t	his facility	and the	details of	f the pr	oposed	project(s)	described	d above	and the
attached detail re	elative to the cor	nstruction pr	oject(s) ar	e true and	I correct t	to the bes	st of my	/ knowle	edge and b	oelief.		

4m) Q.4m)	6/17/2024	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nur	mber
Michael A. Malone, AIA	mmalone@partners	inarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO 2024 Bond Program		ades:				DAITIO	N MALOW E	JOILDE
•		Built:						
raham Elementary / Early Childhood Center								
25555 Crocker Blvd, Harrison Twp, MI	Building							
Building Project Work List	Site	Size:	9.83		1.158		Date	6/6/24
tegory					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phas
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Seri
MODELING WORK								
Exterior Work								
Roofing								
roof work - priority 1	43,500	sqft	25.00	1,087,500	1,258,917	1,663,432	1	1
Envelope replace exterior masonry	1	Incm	15,480.00	15,480	17,920	23,678	1	1
upgrade select exterior glazing		lpsm lpsm	22,000.00	22,000	25,468	33,651	1	1
replace select exterior envelop materials		lpsm	16,000.00	16,000	18,522	24,473	1	1
reroute roof overflow drainage		lpsm	3,000.00	3,000	3,473	4,589	1	1
replace EIFS with metal panel	2,796	•	70.00	195,720	226,570	299,372	1	1
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1
			Exterior W	ork Subtotal:	1,627,273	2,150,149		
Interior Work		lac-	25 000 00	25 000	/0 [17	E3 F3/	1	1
replace casework (countertops and hardware)	1	lpsm allo	35,000.00 50,000.00	35,000 50,000	40,517 57,881	53,536 76,480	1 2	1 2
replace interior openings replace drywall partitions & paint due to construction	1	allo allo	50,000.00	50,000 5,000	57,881	76,480 7,648	1	1
replace carpet (classrooms, media center, offices)	38,100		9.00	342,900	396,950	524,497	1	1
replace VCT flooring (gym, cafeteria, service)	2,000		8.00	16,000	18,522	24,473	2	2
3 (3)	,			ork Subtotal:	519,658	686,634		
Mechanical Systems								
Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
HVAC System			(25.077.00	/25.0//	705 170	071 202	1	1
replace roof top units, classroom units, valves, pumps, & select piping		lpsm	635,066.00	635,066	735,168	971,393	1 1	1
replace mdf/idf air conditioning Integrated Automation	Z	ea	15,000.00	30,000	34,729	45,888	ı	ı
upgrade temperature control system	60,614	saft	6.00	363,684	421,010	556,289	1	1
apg. add temperature commerce jetom			Mechanical Syste		1,278,886	1,689,818	· · · · · · · · · · · · · · · · · · ·	•
Electrical Systems								
Power								
electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	1	1
Lighting			252.22	00.000	00 /55	44.005		
upgrade building exterior lighting	34	ea	850.00	28,900	33,455	44,205 110,743	1	1
			Electrical Syste	tion Subtotal:	83,812 3,509,630	4,637,344		
Technology Infrastructure			001134144	don Subtotut.	0,007,000	4,007,044		
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	60,614		0.65	39,399	45,609	55,940	1	1
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	14	ea	4,000.00	56,000	64,827	79,510	1	1
replace rack UPS	2		1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	34	ea	1,200.00	40,800	47,231	57,929	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1
Tochnology Safety 9. Socurity		Techn	ology Infrastruct	ture Subtotal:	207,908	255,000		
Technology Safety & Security upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms		ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	60,614		0.75	45,461	52,626	64,546	1	2
replace PA systems	60,614		1.25	75,768	87,710	107,577	1	2
	To	echnolo	gy Safety & Secu	rity Subtotal:	204,585	250,923		
	Techno	logy & S	Safety Infrastruct	ture Subtotal:	412,493	505,923		
			REMODELIN	G SUBTOTAL:	3,922,123	5,143,267		
E WORK								
Site Paving								
· ·	1	lpsm	376,150.00	376,150	435,441	575,356	1	2
repave parking lots, bus loop, driveway, & sidewalks				400 510	212 /72	200 7/5	2	2
repave parking lots, bus loop, driveway, & sidewalks Repave side lot	1	lpsm	183,542.00	183,542	212,473	280,745	2	Z
Repave side lot	1	lpsm	· · · · · · · · · · · · · · · · · · ·	ving Subtotal:	647,913	856,101	Z	
	1	lpsm	· · · · · · · · · · · · · · · · · · ·	•			1	1

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSSI	ON PU	RPOSE ONLY		BARTON MALOW BUILDERS			
2024 Bond Program	Gra	ides: p	oreK-5					
Graham Elementary / Early Childhood Center	Year E	Built: 1	964					
25555 Crocker Blvd, Harrison Twp, MI	Building S	Size. <i>6</i>	50 614					
Building Project Work List	Ť	Size: 9			1.158		Date: 6/6/24	
	Jite .	JIZE. I	7.03				Date	. 0/0/24
Category Cuberteron				Direct	Direct w/	Total		Dhase /
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Priority	Phase / Series
Description	uty	Oilit	Onit Cost	COST	Locatation	COSIS	THOTILY	
replace playground pavement surfaces	25,700	sqft	3.50	89,950	104,128	137,587	2	2
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
			Site Improvem		589,752	779,251		
			SITE WOR	(SUBTOTAL:	1,237,666	1,635,352		
NSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	31	each	1,250.00	38,750	44,858	55,018	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	366	each	400.00	146,520	169,615	208,033	1	1
mobile device storing/charging (classroom)	26	each	400.00	10,400	12,039	14,766	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	26	each	9,000.00	234,000	270,884	332,240	1	1
conference room / IEP		each	5,000.00	5,000	5,788	7,099	1	1
	INSIR	UCITUR	NAL TECHNOLOG	SOBIUIAL:	555,278	681,048		
URNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters		ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	13,200	15,281	18,742	1	2
Furniture Furnishings & Fauinment (FFF)	No	n-Inst	ructional Equipm	ent Subtotal:	30,909	37,909		
Furniture, Furnishings & Equipment (FFE) purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
purchase furniture		грын		&E Subtotal:	106,418	130,521		
				E SUBTOTAL:	137,326	168,431		
					<u> </u>			
				JECT TOTAL:	5,852,392	7,628,098		
			Construction		585,239			
lotes:			Permits / Genera		208,881			
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	498,488			
Indirect Costs include; contingency, general conditions & professional fees			риц	C.M. Costs: DING TOTAL:	483,097 7,628,098			
			BUIL	DING TUTAL:	7,028,098			

Building Utilization

School Building Name

Graham Elementary & Early Childhood Center

Project No. [n] 3

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

- 1. List the number of teaching stations 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	7	20	140
(3-5) Upper Elementary	7	25	175
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	14		315
Proposed New	List # of Teaching	Capacity	
i ioposed ivew	Stations	Factor	Capacity
(K-2) Lower Elementary	Stations	Factor 20	Capacity 0
•			
(K-2) Lower Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	0 0 0	20 25 22.5	0 0 0

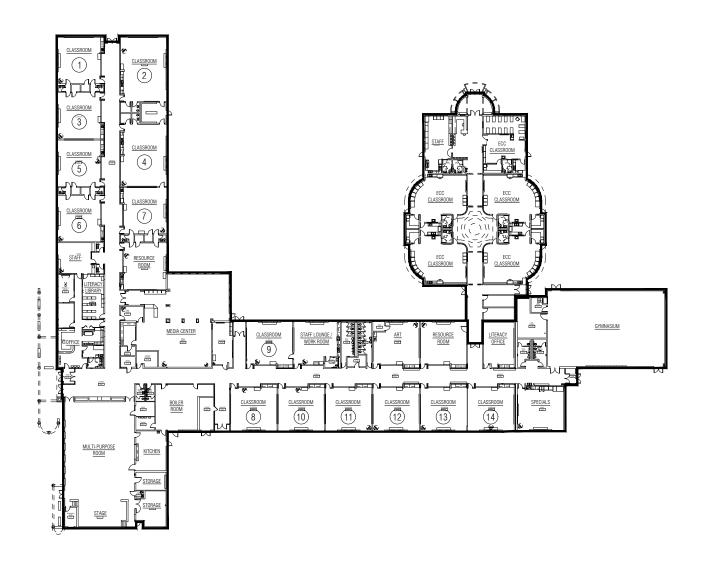
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 350

Utilization Percentage 111%

(Projected 5-Year Enrollment / Total Capacity)

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









Green Elementary				Project No. [n]	4	
Proposal #:	Series 1	Series 2	n/a	n/a		
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg	
	New addition	New addition	New addition	New addition		
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.	✓ Remodeling	Remodeling	Remodeling	Remodeling	For multiple proposals,	
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a	
	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page	
	Buses	Buses	Buses	Buses	for each.	
	✓ Site work	Site work	Site work	Site work		
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)		
	Site acquisition	Site acquisition	Site acquisition	Site acquisition		
Construction Cost Per	· Square Foot					
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a		
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a		
Does this proposed project	address any existing	g environmental or us	ability problems? (<i>cl</i>	heck all that apply)		
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements			
Other - please list:	1.	2.	3.			

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	230,252	1,852,992	0	0	2,083,243
Construction Contingencies	133,937	294,299	0	0	428,236
Instructional Technology	591,083	60,775	0	0	651,859
Loose Furnishing/Equipment	0	138,715	0	0	138,715
Buses	0	0	0	0	0
Site Work	518,037	890,508	0	0	1,408,545
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	112,391	251,261	0	0	363,652
CM Fees and Costs	111,429	364,246	0	0	475,674
Estimated Costs	1,697,129	3,852,796	0	0	5,549,925

I certify that	I have asse	ssed the (conditions	relative to	this fac	ility and th	e details	of the	proposed	project(s)	described	above	and the
attached de	tail relative t	o the con	struction p	roject(s) a	are true a	and correc	t to the b	est of r	ny knowle	edge and b	elief.		

m 9.4m		6/17/2024	PARTNERS in Architecture, PLC #447	23
Signature		Date	Firm Name and License Nu	mber
Michael A. Malone,	AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOR					BARTO	N MALOW I	BUILDE
2024 Bond Program	Grades:						
Green Elementary	Year Built:	2009					
47260 Sugarbush Road, Chesterfield, MI	Building Size:	71,473					
Building Project Work List	Site Size:	7.75		1.158		Date	: 6/6/24
Category				Direct	Total		
Subcategory			Direct	w/	w/ Indirect		Phase /
Description	Qty Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
REMODELING WORK							
Exterior Work							
Roofing							
Envelope				05.440	00.454		•
upgrade select exterior glazing	1 lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials reroute roof overflow drainage	1 lpsm 1 lpsm	279,900.00 7,500.00	279,900 7,500	324,019 8,682	428,133 11,472	1 1	2 2
Teroute roor overtion drainage		r Work Subtotal:	309,400	358,169	473,256	Į.	Z
Interior Work		Work Subtotuti	007/100	000/107	470/200		
replace interior openings	1 allo	25,000.00	25,000	28,941	38,240	2	2
replace carpet (classrooms, media center, offices)	38,500 lpsm	9.00	346,500	401,117	530,004	5	2
replace architectural trim out/specialties	1 lpsm	15,000.00	15,000	17,364	22,944	1	2
	Interio	r Work Subtotal:	386,500	447,422	591,188		
Mechanical Systems							
Plumbing Work replace water heater, pump, water bottle filler, grease trap, & valves	1 lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System	ı ıµsıll	70,000.00	, 0,000	01,700	110,247	ı	۷
replace AC chiller, rooftop units, classroom units, refurbish mezzanine units	1 lpsm	202,200.00	202,200	234,072	309,284	2	2
replace mdf/idf air conditioning	2 ea	15,000.00	30,000	34,729	45,888	1	2
Integrated Automation		·	,	•	·		
upgrade temperature control system	71,473 sqft	6.00	428,838	496,434	655,948	1	2
	Mechanical Sy	stems Subtotal:	737,038	853,214	1,127,368		
Electrical Systems							
Power	20	1 500 00	40.000	FF F//	70.400	4	
electrical to support technology Lighting	32 ea	1,500.00	48,000	55,566	73,420	1	1
upgrade building exterior lighting	16 ea	850.00	13,600	15,744	20,802	5	2
apgrade bartaing exterior agricing		stems Subtotal:	61,600	71,310	94,223	<u> </u>	
	-	uction Subtotal:	1,494,538	1,730,115	2,286,035		
Technology Infrastructure							
data cabling for renovations	1 ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables	1 lpsm	7,500.00	7,500	8,682	10,649	1	1
replace fiber to IDFs	1 ea	3,500.00	3,500	4,052	4,969	1	1
replace network switches - core/aggregate	1 ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - edge	13 ea	4,000.00	52,000	60,197	73,831	1 1	1
replace rack UPS update wireless infrastructure	2 ea 1 ea	1,200.00 1,200.00	2,400 1,200	2,778 1,389	3,408 1,704	1	2
upgrade phone system	1 lpsm	25,000.00	25,000	28,941	35,496	1	1
	<u>'</u>	ucture Subtotal:	106,600	123,403	151,354	'	
Technology Safety & Security							
upgrade security camera system	30 ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms	3 ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	71,473 sf	0.75	53,605	62,054	76,109	1	2
replace PA systems	71,473 sf	1.25	89,341	103,424	126,849	11	2
		curity Subtotal:	198,446	229,726	281,759		
recnnology a	=	ucture Subtotal: .ING SUBTOTAL:	305,046 1,799,584	353,129 2,083,243	433,113 2,719,148		
	KEMODEL	ING SUBTUTAL.	1,777,304	2,003,243	2,717,140		
SITE WORK							
Site Paving repave parking lot including stormwater management	1 lpsm	637,100.00	637,100	737,523	974,504	1	2
repare parking to tinetualing stormwater management		Paving Subtotal:	637,100	737,523	974,504	ı	
Site Improvements	5.10		307,100	. 0. 1020	77-1004		
upgrade playground equipment	1 lpsm	250,000.00	250,000	289,406	382,398	1	1
upgrade playground soft surfaces	7,900 sqft	25.00	197,500	228,631	302,095	1	1
replace playground pavement surfaces	21,900 sqft	3.66	80,154	92,788	122,603	2	2
		52,000.00	52,000	60,197	79,539	2	2
upgrade site sign - digital	1 lpsm	•	•		•		
	Site Improv	ement Subtotal:	579,654	671,022	886,635	_	
	Site Improv	•	•		•		

L'ANSE CREUSE PUBLIC SCHOOLS	RELIMINARY - FOR DISCUSS	ION PL	IRPOSE ONLY			BARTOI	N MALOW	BUILDERS
2024 Bond Program	Gr	ades: I	<- 5					
Green Elementary	Year	Built: 2	2009					
47260 Sugarbush Road, Chesterfield, MI	Building	Size:	71,473					
Building Project Work List	Site	Size: 1	7.75		1.158		Date	: 6/6/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
teacher computers (desktop + 1:1 device)	34	each	1,250.00	42,500	49,199	60,343	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	495	each	400.00	198,000	229,210	281,126	1	1
mobile device storing/charging (classroom)	29	each	400.00	11,600	13,428	16,470	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual			•		•	•		
classroom AV (display, sound, PA, doc camera)	29	each	9,000.00	261,000	302,140	370,575	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTE	RUCTION	NAL TECHNOLOG	Y SUBTOTAL:	651,859	799,505		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	14,400	16,670	20,446	1	2
Furniture Furnishings 9 Favingsont (FFF)	N	on-Inst	ructional Equipm	ent Subtotal:	32,298	39,613		
Furniture, Furnishings & Equipment (FFE) purchase furniture	1		91,927.50	91,928	106,418	130,521	2	2
parchase furniture	ı		•	&E Subtotal:	106,418	130,521	L	
				E SUBTOTAL:	138,715	170,134		
			PRO	JECT TOTAL:	4,282,362	5,549,925		
			Construction		428,236			
Notes:			Permits / Genera		138,101			
Scope of work is conceptual and will be detailed throughout t	he design phase		 Design	Consultants:	363,652			
Indirect Costs include; contingency, general conditions & pro	fessional fees			C.M. Costs:	337,573			
			BUIL	DING TOTAL:	5,549,925			

Building Utilization

School Building Name

Green Elementary

Project No. [n] 4

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

- 1. List the number of teaching stations 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	10	20	200
(3-5) Upper Elementary	9	25	225
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	19		425
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

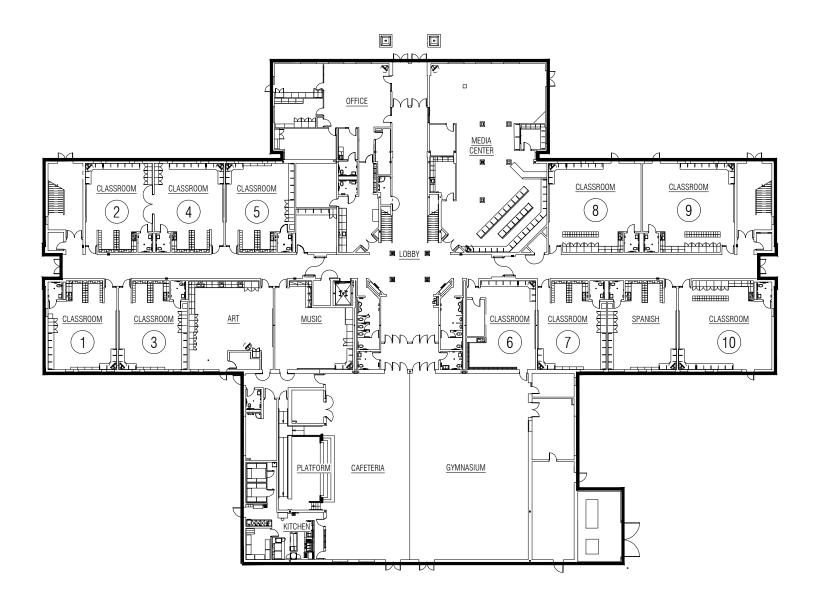
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 450

> **Utilization Percentage** 106%

(Projected 5-Year Enrollment / Total Capacity)

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

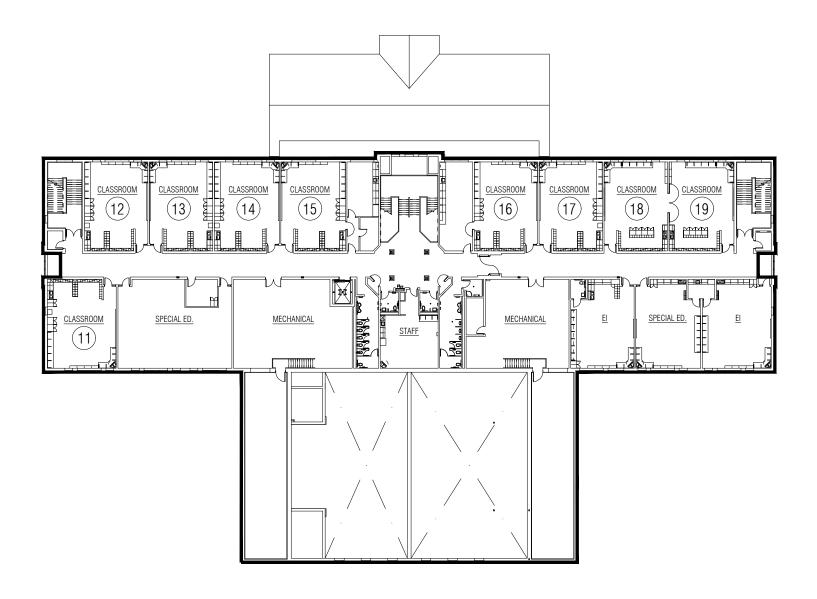




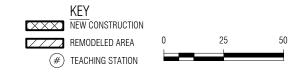














Higgins Elementary				Project No. [n]	5
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.	New addition	New addition	New addition	New addition	
	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
	Buses	Buses	Buses	Buses	for each.
	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	g environmental or us	ability problems? (<i>ci</i>	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	3,459,312	368,192	0	0	3,827,504
Construction Contingencies	591,764	124,270	0	0	716,034
Instructional Technology	529,729	54,987	0	0	584,716
Loose Furnishing/Equipment	0	145,545	0	0	145,545
Buses	0	0	0	0	0
Site Work	1,928,603	673,975	0	0	2,602,578
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	505,309	105,278	0	0	610,587
CM Fees and Costs	734,706	131,087	0	0	865,794
Estimated Costs	7,749,424	1,603,335	0	0	9,352,759

I certify that I have assessed	the conditions relative	to this facility and t	the details of the p	proposed project(s)	described above	and the
attached detail relative to the	construction project(s)	are true and corre	ct to the best of m	ny knowledge and b	elief.	

and a.m	6/17/2024	PARTNERS in Architecture, PLC #447	723
Signature	Date	Firm Name and License No	umber
Michael A. Malone, AIA	mmalone@partne	rsinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOR	R DISCUSS	ION PU	RPOSE ONLY			BARTOI	N MALOW I	BUILDE
2024 Bond Program	Gr	ades: k	(-5					
ggins Elementary	Year	Built: 1	995					
29901 24-Mile Road, Chesterfield, MI	Building							
Building Project Work List		Size: 0			1.158		Date	: 6/6/24
	3116	Size.	7.40				Date	. 0/0/22
egory				Direct	Direct w/	Total w/ Indirect		Dha
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	Costs	Priority	Phas Seri
	aty	Ollic	Offic Cost	CUST	LSCALALION	CUSIS	Filolity	361
10DELING WORK								
xterior Work Envelope								
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	1
reroute roof overflow drainage	1	lpsm	57,600.00	57,600	66,679	88,105	1	1
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1
replace select exterior doors - medium priority		ea	5,500.00	181,500	210,109	277,621	1	1
			•	ork Subtotal:	378,659	500,330		
nterior Work								
replace casework (countertops and hardware)	1	lpsm	65,000.00	65,000	75,246	99,424	1	1
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction	1	lpsm	40,000.00	40,000	46,305	61,184	2	2
replace carpet (classrooms, media center, offices)	53,500		9.00	481,500	557,396	736,499	1	1
replace VCT flooring (gym, cafeteria, service)	4,000	•	8.00	32,000	37,044	48,947	2	2
replace ceilings	64,000		10.00	640,000	740,880	978,940	1	1
replace architectural trim out/specialties	1	lpsm	16,000.00	16,000	18,522	24,473	1	1
echanical Systems			Interior W	ork Subtotal:	1,533,274	2,025,946		
Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
HVAC System								
replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	751,726.00	751,726	870,217	1,149,835	1	1
replace mdf/idf air conditioning	1	ea	15,000.00	15,000	17,364	22,944	1	1
Integrated Automation								
upgrade temperature control system	66,129		6.00	396,774	459,316	606,903	1	1
leatrical Customs			Mechanical Syste	ems Subtotal:	1,434,876	1,895,931		
Power								
electrical to support technology	28	ea	1,500.00	42,000	48,620	64,243	1	1
Lighting			,	,	•	,		
upgrade building exterior lighting	20	ea	850.00	17,000	19,680	26,003	2	2
			Electrical Syste		68,300	90,246		
			Construct	tion Subtotal:	3,415,110	4,512,453		
echnology Infrastructure demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	1	1
replace cabling infrastructure	66,129		7,500.00 0.65	7,500 42,984	49,759	61,030	1	1
replace capting infrastructure replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1	1
replace network switches - core/aggregate replace network switches - edge	10		4,000.00	40,000	5,766 46,305	7,099 56,793	1	1
replace reck UPS	10	ea ea	4,000.00 1,200.00	1,200	40,305 1,389	30,793 1,704	1	1
update wireless infrastructure	39	ea	1,200.00	46,800	54,177	66,448	1	2
upgrade phone system	J7 1	lpsm	25,000.00	25,000	28,941	35,496	1	1
and and higher officers	<u> </u>	_	ology Infrastruct		195,041	239,218		<u>'</u>
echnology Safety & Security								
upgrade security camera system		ea	1,500.00	45,000	52,093	63,892	1	1
replace entrance intercoms		ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	66,129		0.75	49,597	57,414	70,419	1	2
replace PA systems	66,129		1.25	82,661	95,691	117,365	1	2
			gy Safety & Secu	-	217,353	266,584		
	Techno	ιogy & S	afety Infrastruct		412,394	505,802		
			KEMUDELIN	G SUBTOTAL:	3,827,504	5,018,254		
ite Paving	121 400	saft	10.00	1 214 000	1 /.በ7 472	1 850 005	1	1
ite Paving repave sw parking lot, driveways, & sidewalks including stormwater mgnt	121,600 40 500		10.00 7.61	1,216,000 308 205	1,407,672 356,786	1,859,985 471 428	1	1 2
ite Paving	121,600 40,500		7.61	1,216,000 308,205 ving Subtotal:	356,786	471,428	1 1	1 2
ite Paving repave sw parking lot, driveways, & sidewalks including stormwater mgnt repave burdi north & south parking lots, sidewalks			7.61	308,205				1 2
ite Paving repave sw parking lot, driveways, & sidewalks including stormwater mgnt repave burdi north & south parking lots, sidewalks	40,500		7.61	308,205	356,786	471,428		1 2
ite Paving repave sw parking lot, driveways, & sidewalks including stormwater mgnt repave burdi north & south parking lots, sidewalks ite Improvements	40,500	sqft	7.61 Site Pav	308,205 ring Subtotal:	356,786 1,764,458	471,428 2,331,413	1	1 2 1 1
repave burdi north & south parking lots, sidewalks iite Improvements upgrade playground equipment	40,500	lpsm sqft	7.61 Site Pav 250,000.00	308,205 ving Subtotal: 250,000	356,786 1,764,458 289,406	471,428 2,331,413 382,398	1	1
repave sw parking lot, driveways, & sidewalks including stormwater mgnt repave burdi north & south parking lots, sidewalks iite Improvements upgrade playground equipment upgrade playground soft surfaces	40,500 1 8,000 36,000	lpsm sqft	7.61 Site Pav 250,000.00 25.00	308,205 ving Subtotal: 250,000 200,000	356,786 1,764,458 289,406 231,525	471,428 2,331,413 382,398 305,919	1 1 1	

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY					BARTOI	MALOW I	BUILDERS
2024 Bond Program	Grades: K-5							
Higgins Elementary	Year	Built: 1	995					
29901 24-Mile Road, Chesterfield, MI	Building	Size: 6	56,129					
Building Project Work List	Site Size: 17.46			1.158		Date	: 6/6/24	
Category Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
			Site Improvem SITE WOR	ent Subtotal: K SUBTOTAL:	838,121 2,602,578	1,107,425 3,438,839		
INSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	30	each	1,250.00	37,500	43,411	53,244	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	457	each	400.00	182,600	211,382	259,260	1	1
mobile device storing/charging (classroom)	25	each	400.00	10,000	11,576	14,198	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	25	each	9,000.00	225,000	260,466	319,461	1	1
conference room / IEP	1 INCTE	each	5,000.00 NAL TECHNOLOG	5,000	5,788 584,716	7,099 717,155	1	1
	ПЭП	COCTION	VAL TECHNOLOG	1 JUBIUIAL.	304,710	717,133		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment	1		2.502.00	2.500	/ 050			
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00 400.00	10,000	11,576	14,198	1	2 2
purchase radio / walkie-talkies		each	ructional Equipm	12,800	14,818 30,446	18,174 37,341	1	Z
Furniture, Furnishings & Equipment (FFE)	N	011-11151	ructionat Equipm	ent Subtotat.	30,440	37,341		
purchase furniture	1	lpsm	99,427.50	99,428	115,100	141,170	2	2
<u>,</u>				,&E Subtotal:	115,100	141,170		
				E SUBTOTAL:	145,545	178,511		
			PRO	JECT TOTAL:	7,160,344	9,352,759		
			Construction	Contingency:	716,034			
Notes:			Permits / Genera	al Conditions:	264,778			
Scope of work is conceptual and will be detailed throughout t	he design phase		Design	Consultants:	610,587			
Indirect Costs include; contingency, general conditions & pro	fessional fees			C.M. Costs:	601,016			
			BUIL	DING TOTAL:	9,352,759			

School Building Name

Higgins Elementary

Project No. [n] 5

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

- 1. List the number of teaching stations 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.

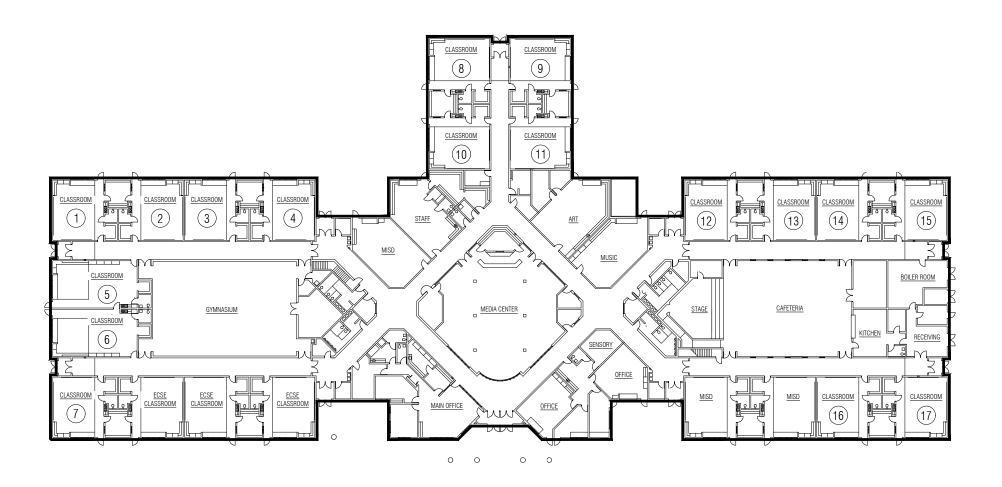
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	17		390
Draw and Nam	List # of Teaching	Capacity	
Proposed New	Stations	Factor	Capacity
(K-2) Lower Elementary	Stations 0	Factor 20	Capacity 0
•		10.0.0.	
(K-2) Lower Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment 434

Utilization Percentage 111%

(Projected 5-Year Enrollment / Total Capacity)











Lobbestsel Elementary	Project No. [n]	6			
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	g New stand-alone blo	New stand-alone blo	New stand-alone blo	g
	New addition	New addition	New addition	New addition	
The associated Cost	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for	Buses	Buses	Buses	Buses	for each.
each checked box.	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	n environmental or us	sahility problems? (c	heck all that annly)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	548,262	931,211	0	0	1,479,473
Construction Contingencies	181,133	130,389	0	0	311,522
Instructional Technology	458,744	53,540	0	0	512,284
Loose Furnishing/Equipment	0	110,353	0	0	110,353
Buses	0	0	0	0	0
Site Work	804,324	208,787	0	0	1,013,111
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	153,206	110,793	0	0	264,000
CM Fees and Costs	184,299	146,738	0	0	331,037
Estimated Costs	2,329,968	1,691,812	0	0	4,021,780

I certify that I	l have assesse	d the conditions	relative to the	his facility	and the	details of	f the pro	oposed	project(s)	described	above a	and the
attached deta	ail relative to th	e construction p	roject(s) are	true and	correct t	o the bes	st of my	knowle	dge and b	elief.		

4m 9.4m	6/17/2024	PARTNERS in Architecture, PLC #44723
Signature	Date	Firm Name and License Number
Michael A. Malone, AIA	mmalone@partne	
Printed Name	E-mail Address	Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS **BARTON MALOW BUILDERS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY** 2024 Bond Program Grades: K-5 **Lobbestael Elementary** Year Built: 1972 38495 Prentiss, Harrison Twp, MI Building Size: 52,630 **Building Project Work List** 1.158 Site Size: 8.00 Date: 6/6/24 Total Category Direct **Subcategory** Direct w/ w/Indirect Phase / Otv Unit **Unit Cost** Escalation Costs **Description** Cost **Priority** Series REMODELING WORK **Exterior Work** Roofing roof work - priority 1 1 lpsm 2.500.00 3.824 1 2 2 500 2 894 Envelope replace exterior masonry 1 lpsm 41,000.00 41,000 47,463 62,713 1 2 22,000.00 2 upgrade select exterior glazing 1 lpsm 22,000 25,468 33,651 1 12.000.00 12,000 13,892 18,355 2 replace select exterior envelop materials 1 lpsm Exterior Work Subtotal: 89,716 118,543 **Interior Work** 22,000.00 22,000 25,468 replace drywall partitions & paint due to construction 1 lpsm 33,651 2 2 252,000 291,722 385,457 replace carpet (classrooms & corridors) 28,000 lpsm 9 00 1 replace VCT flooring (gym, cafeteria, service) 12,500 sqft 8.00 100,000 115,763 152,959 2 2 Interior Work Subtotal: 457,262 604,189 **Mechanical Systems Plumbing Work** 76,000.00 76,000 87,980 116,249 2 replace water heater, pump, water bottle filler, grease trap, & valves 1 lpsm **HVAC System** 2 replace mdf/idf air conditioning 2 ea 15,000.00 30,000 34,729 45,888 1 Integrated Automation upgrade temperature controls 52.630 saft 6.00 315.780 365.555 483.015 2 Mechanical Systems Subtotal: 488,263 645,152 **Electrical Systems** Power upgrade electrical systems - Priority 1 2,175.00 2,518 3,327 2 2.175 1 1 lpsm electrical to support technology 27 1,500.00 40,500 46,884 61,949 1 ea Lighting upgrade building exterior lighting 22 ea 850.00 18,700 21,648 28,603 2 **Electrical Systems Subtotal:** 71,049 93,879 **Construction Subtotal:** 1,106,290 1,461,763 **Technology Infrastructure** demo coax/legacy cables 7,500.00 7,500 8,682 10,649 1 lpsm replace cabling infrastructure 52,630 sf 0.65 34,210 39,602 48,572 1 3.500.00 3.500 4,052 4.969 replace fiber to IDEs 1 ea 1 1 replace network switches - core/aggregate 5,000.00 5,000 5,788 7,099 1 ea 1 4.000.00 replace network switches - edge 48 000 55,566 68 152 12 ea 1 1 2 1,200.00 2,400 2,778 3,408 replace rack UPS ea 30 ea 41,675 36,000 update wireless infrastructure 1.200.00 51.114 2 upgrade phone system 25,000.00 25,000 28,941 35,496 lpsm **Technology Infrastructure Subtotal:** 187,083 229,458 **Technology Safety & Security** 30 1.500.00 45.000 52,093 63,892 upgrade security camera system ea replace entrance intercoms 3 ea 3,500.00 10,500 12,155 14,908 1 1 2 52.630 sf በ 75 39,473 45,694 56,044 1 install emergency alert system 52,630 sf 1.25 65,788 76,157 93,407 replace PA systems 2 228,251 Technology Safety & Security Subtotal: 186,100 Technology & Safety Infrastructure Subtotal: 373,183 457,709 **REMODELING SUBTOTAL:** 1,479,473 1,919,472 SITE WORK **Site Paving** repave bus loop, new concrete drives and UG stormwater structures 6,200 sqft 19 09 118,358 137,014 181,040 2 2 sqft 262,305 401,220 repave parking lots, replace sidewalks 33,500 7.83 303,651 582,259 Site Paving Subtotal: 440,665 Site Improvements upgrade playground equipment 250,000.00 250,000 289,406 382,398 1 lpsm 1 7,300 sqft 211,267 182,500 279,151 upgrade playground soft surfaces 25.00 1 1

10,000.00

52.000.00

Site Improvement Subtotal:

SITE WORK SUBTOTAL:

1 lpsm

1 lpsm

10,000

52,000

11,576

60,197

572,446

1,013,111

15,296

79,539

756,384

1,338,643

2

2

INSTRUCTIONAL TECHNOLOGY

replace playground pavement surfaces

upgrade site sign - digital

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSS	ION PL	JRPOSE ONLY			BARTON	MALOW E	BUILDERS
2024 Bond Program	Gra	ades:	K-5					
Lobbestael Elementary	Year	Built:	1972					
38495 Prentiss, Harrison Twp, MI	Building	Size:	52,630					
Building Project Work List	Site	Size:	8.00		1.158		Date	: 6/6/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	29	each	1,250.00	36,250	41,964	51,469	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	327	each	400.00	130,680	151,278	185,543	1	1
mobile device storing/charging (classroom)	24	each	400.00	9,600	11,113	13,630	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	24	each	9,000.00	216,000	250,047	306,683	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTR	UCTIO	NAL TECHNOLOGY	SUBTOTAL:	512,284	628,316		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	12,400	14,355	17,606	1	2
	N	on-Inst	ructional Equipme	ent Subtotal:	29,982	36,774		
Furniture, Furnishings & Equipment (FFE)								
purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2
				&E Subtotal:	80,371	98,575		
			F, F, & E	SUBTOTAL:	110,353	135,349		
			PRO.	JECT TOTAL:	3,115,221	4,021,780		
			Construction (311,522			
Notes:			Permits / Genera		93,254			
Scope of work is conceptual and will be detailed througho			Design	Consultants:	264,000			
Indirect Costs include; contingency, general conditions &	professional fees			C.M. Costs:	237,784			
			BUILI	DING TOTAL:	4,021,780			

School Building Name

Lobbestael Elementary

Project No. [n] 6

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

- 1. List the number of teaching stations 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.

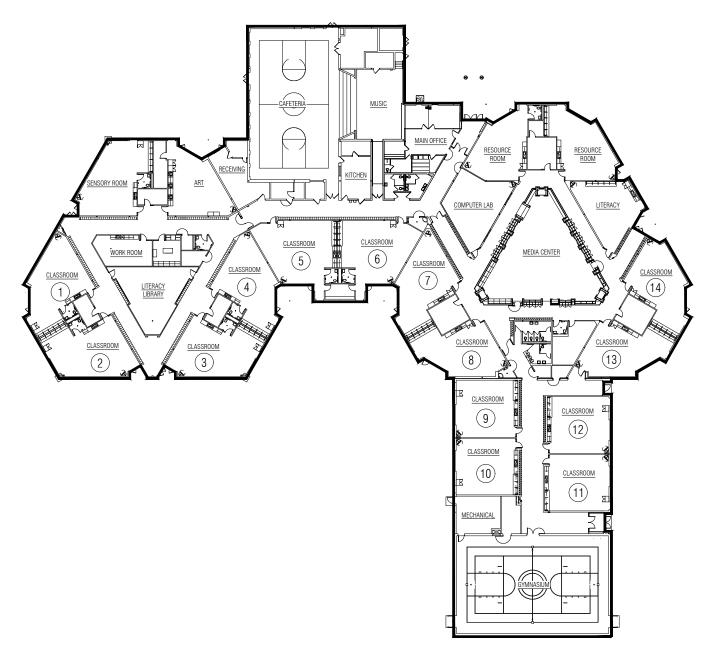
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	6	20	120
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	14		320
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
-	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment 350

Utilization Percentage 109%

(Projected 5-Year Enrollment / Total Capacity)











South River Elementary	Project No. [n]	7						
Proposal #:	Series 1	Series 2	n/a	n/a				
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g			
	New addition	New addition	New addition	New addition				
The associated Cost	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,			
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a			
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page			
breakdown of costs for	Buses	Buses	Buses	Buses	for each.			
each checked box.	✓ Site work	✓ Site work	Site work	Site work				
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)				
	Site acquisition	Site acquisition	Site acquisition	Site acquisition				
Construction Cost Per	Square Foot							
	onstruction Square Ft	n/a	Cost per Sq Ft	n/a				
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a				
Does this proposed project address any existing environmental or usability problems? (check all that apply)								
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements					
Other - please list:	1.	2.	3.					

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	211,151	1,234,040	0	0	1,445,191
Construction Contingencies	235,596	152,388	0	0	387,984
Instructional Technology	592,565	56,434	0	0	648,999
Loose Furnishing/Equipment	0	137,326	0	0	137,326
Buses	0	0	0	0	0
Site Work	1,552,240	96,083	0	0	1,648,323
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	199,655	129,360	0	0	329,015
CM Fees and Costs	250,332	167,984	0	0	418,316
Estimated Costs	3,041,538	1,973,615	0	0	5,015,153

I certify that	I have assessed	d the conditions	relative to	o this facility	and the	details o	of the p	oroposed	project(s)	described	above	and the
attached det	ail relative to the	e construction p	project(s) a	are true and	correct t	to the be	st of n	ny knowle	edge and b	elief.		

4m 9.4m	6/17/2024	PARTNERS in Architecture, PLC #44	723
Signature	Date	Firm Name and License N	Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - F						BARTU	N MALOW I	BUILDE
2024 Bond Program		ades: k						
uth River Elementary	Year	Built: 2	2007					
27733 South River Road, Harrison Twp, MI	Building	Size: 7	71,561					
Building Project Work List	Site	Size: 1	0.00		1.158		Date	: 6/6/24
едогу					Direct	Total		
subcategory				Direct	w/	w/ Indirect		Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Serie
	<u> </u>				Locatation		Thomas	
MODELING WORK								
xterior Work								
Envelope	1	lnem	22,000.00	22,000	25 / 40	22 451	1	2
upgrade select exterior glazing	<u> </u>	lpsm	•	/ork Subtotal:	25,468 25,468	33,651 33,651	'	
nterior Work					_0,.00	55,551		
replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
replace carpet (classrooms, media center, offices)	30,000	lpsm	9.00	270,000	312,559	412,990	5	2
			Interior W	ork Subtotal:	341,499	451,230		
echanical Systems				412,990	607,057	155,827		
Plumbing Work		I	7/ 000 00	7/ 000	07.000	11/0/0	4	^
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System replace mdf/idf air conditioning	າ	ea	15,000.00	30,000	34,729	45,888	1	2
replace mat/lat air conditioning Integrated Automation	Ζ	Сd	15,000.00	3U,UUU	34,729	45,000	ı	2
upgrade temperature controls	71,473	caft	6.00	428,838	496,434	655,948	1	2
apgrade temperature controts	71,473		Mechanical Syst		619,142	818,084	<u>'</u>	
lectrical Systems			recilament syste	ciiis subtotut.	017,142	010,004		
Power								
electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	1	1
Lighting								
upgrade building exterior lighting	21	ea	850.00	17,850	20,664	27,303	5	2
			Electrical Systo	ems Subtotal:	71,020	93,841		
			Construc	tion Subtotal:	1,057,129	1,396,806		
echnology Infrastructure			10.000.00	10.000	44.577	1/100		
data cabling for renovations		ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables replace fiber to IDFs	1	lpsm	7,500.00 3,500.00	7,500 3,500	8,682 4,052	10,649 4,969	1 1	1 1
replace network switches - core/aggregate	1	ea ea	5,000.00	5,000	5,788	4,707 7,099	1	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1	1
replace rack UPS		ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure		ea	1,200.00	43,200	50,009	61,337	1	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1	1
		Techn	ology Infrastruct	ture Subtotal:	158,132	193,948		
echnology Safety & Security	20		1 500 00	/ [000	F2 002	/2.002	1	1
upgrade security camera system		ea ea	1,500.00	45,000 10,500	52,093 12,155	63,892	1 1	1 1
replace entrance intercoms install emergency alert system	3 71,561		3,500.00 0.75	10,500 53,671	12,155 62,131	14,908 76,203	1	2
			1.25			76,203 127,005	1 1	2
replace PA systems	71,561 T		gy Safety & Secu	89,451	103,551 229,930	282,009	ļ.	
			afety Infrastruct	-	388,061	475,957		
		3,	-	G SUBTOTAL:	1,445,191	1,872,763		
EWORK								
ite Paving								
replace site paving – priority 1 (include UG stormwater structure)	47,300	sqft	14.18	670,714	776,435	1,025,919	1	1
replace site paving - priority 2	62,300	sqft	3.28	204,344	236,554	312,563	1	1
			Site Pav	ving Subtotal:	1,012,989	1,338,483		
ite Improvements								
upgrade playground equipment	1	P -	250,000.00	250,000	289,406	382,398	1	1
	8,633	-	25.00	215,825	249,844	330,124	1	1
upgrade playground soft surfaces	31,000		1.00	31,000	35,886	47,417	2	2
replace playground pavement surfaces	,	lpsm	52,000.00	52,000	60,197	79,539 839,479	2	2
	1	•				# 4U 1. /U		
replace playground pavement surfaces	1	•	Site Improvem SITE WOR		635,334 1.648.323			
replace playground pavement surfaces upgrade site sign - digital	1		-	K SUBTOTAL:	1,648,323	2,177,962		
replace playground pavement surfaces upgrade site sign - digital FRUCTIONAL TECHNOLOGY	1	·	-					
replace playground pavement surfaces upgrade site sign - digital FRUCTIONAL TECHNOLOGY omputers and Mobile Devices	1	each	SITE WOR	RK SUBTOTAL:	1,648,323	2,177,962	2	7
replace playground pavement surfaces upgrade site sign - digital FRUCTIONAL TECHNOLOGY omputers and Mobile Devices teacher computers (desktop + 1:1 device)	31		1,250.00	38,750	1,648,323 44,858	2,177,962 55,018	2 2	2 2
replace playground pavement surfaces upgrade site sign - digital TRUCTIONAL TECHNOLOGY Computers and Mobile Devices teacher computers (desktop + 1:1 device) admin staff computers	31	each	1,250.00 1,000.00	38,750 10,000	1,648,323 44,858 11,576	2,177,962 55,018 14,198	2	
replace playground pavement surfaces upgrade site sign - digital TRUCTIONAL TECHNOLOGY Computers and Mobile Devices teacher computers (desktop + 1:1 device)	31		1,250.00	38,750	1,648,323 44,858	2,177,962 55,018		

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCU	SSION P	URPOSE ONLY			BARTO	N MALOW I	BUILDERS
2024 Bond Program		Grades:	K-5					
South River Elementary	Υe	ar Built:	2007					
27733 South River Road, Harrison Twp, MI	Build	ng Size:	71,561					
Building Project Work List	S	ite Size:	10.00		1.158		Date	: 6/6/24
Category Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
mobile device storing/charging (carts) Audiovisual	·	2 each	1,500.00	3,000	3,473	4,259	1	1
classroom AV (display, sound, PA, doc camera) conference room / IEP		26 each 1 each	9,000.00 5,000.00	234,000 5,000	270,884 5,788	332,240 7,099	1 1	1 1
	IN:	STRUCTIO	NAL TECHNOLOGY	•	648,999	795,998		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters		1 ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment		1 lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		33 each	400.00	13,200	15,281	18,742	1	2
Functions Funciables & Fourier and /FFF		Non-Ins	tructional Equipm	ent Subtotal:	30,909	37,909		
Furniture, Furnishings & Equipment (FFE) purchase furniture		1 lpsm	91,927.50	91,928	106,418	130,521	2	2
		·	• •	&E Subtotal: E SUBTOTAL:	106,418 137,326	130,521 168,431		
Notes:			PRO Construction (Permits / Genera		3,879,839 387,984 119,040	5,015,153		
Scope of work is conceptual and will be detailed through Indirect Costs include; contingency, general conditions &				Consultants: C.M. Costs: DING TOTAL:	329,015 299,276 5,015,153			

School Building Name

South River Elementary

Project No. [n] 7

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

- 1. List the number of teaching stations 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.

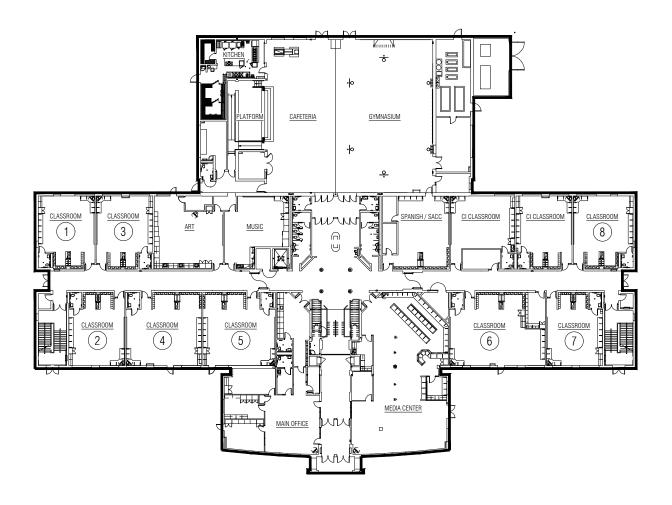
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	18		410
Proposed New	List # of Teaching	Capacity	
i i opocou itoti	Stations	Factor	Capacity
(K-2) Lower Elementary	Stations	Pactor 20	Capacity 0
•		1 0.0101	-
(K-2) Lower Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary	0	20	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment 450

Utilization Percentage 110%

(Projected 5-Year Enrollment / Total Capacity)

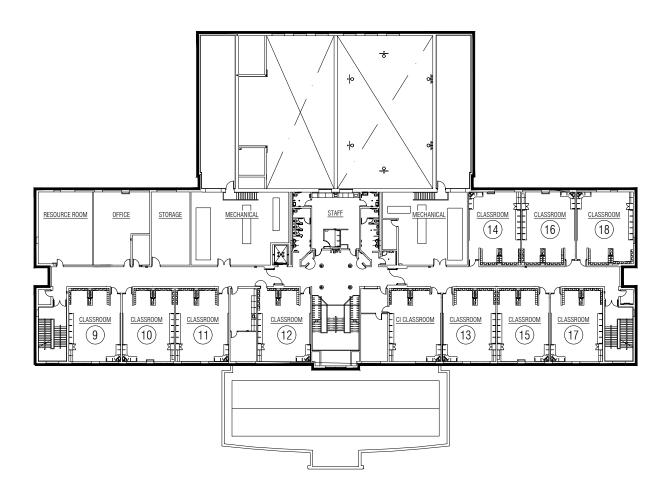




















Tenniswood Elementary				Project No. [n]	8
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
	New addition	New addition	New addition	New addition	
The associated Cost Detail page must include	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for	Buses	Buses	Buses	Buses	for each.
<u>each checked box</u> .	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	: address any existing	environmental or us	sability problems? (<i>cl</i>	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	605,904	967,196	0	0	1,573,100
Construction Contingencies	189,508	119,632	0	0	309,141
Instructional Technology	474,858	52,093	0	0	526,951
Loose Furnishing/Equipment	0	109,890	0	0	109,890
Buses	0	0	0	0	0
Site Work	814,323	67,142	0	0	881,465
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	160,339	101,566	0	0	261,905
CM Fees and Costs	194,176	132,210	0	0	326,386
Estimated Costs	2,439,108	1,549,729	0	0	3,988,838

I certify that	I have assesse	ed the conditions	relative to this	s facility and	d the details	of the pr	oposed p	project(s)	described	above a	and the
attached de	tail relative to th	ne construction p	project(s) are t	rue and cor	rect to the b	est of my	/ knowled	dge and b	elief.		

m a.m)	6/17/2024	PARTNERS in Architecture, PLC #44	723
Signature		Date	Firm Name and License N	lumber
Michael A. Malone	, AIA	mmalone@partner	sinarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS **BARTON MALOW BUILDERS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY** 2024 Bond Program Grades: K-5 Tenniswood Elementary Year Built: 1973 27733 Glenwood, Clinton Twp, MI Building Size: 52,620 **Building Project Work List** 1.158 Site Size: 8.07 Date: 6/6/24 Total Category Direct **Subcategory** Direct w/ w/Indirect Phase / Otv Unit **Unit Cost** Escalation Costs **Description** Cost **Priority** Series REMODELING WORK **Exterior Work** Roofing roof work - priority 1 1 lpsm 4.550.00 1 2 4 550 5 267 6 960 Envelope relace exterior masonry 1 lpsm 73,240.00 73,240 84,784 112,027 1 2 22,000.00 2 upgrade select exterior glazing 1 lpsm 22,000 25,468 33,651 1 12,100 14,007 12 100 00 18 508 2 replace select exterior envelop materials 1 lpsm Exterior Work Subtotal: 129,527 171,146 **Interior Work** 27,500.00 27,500 31,835 42,064 replace drywall partitions & paint due to construction 1 lpsm 2 2 303,300 351,108 463,926 replace carpet (classrooms & corridors) 33,700 lpsm 9 00 1 replace VCT flooring (gym, cafeteria, service) 12,800 sqft 8.00 102,400 118,541 156,630 2 2 Interior Work Subtotal: 501,483 662,620 **Mechanical Systems Plumbing Work** 76,000.00 76,000 87,980 116,249 2 replace water heater, pump, water bottle filler, grease trap, & valves 1 lpsm **HVAC System** 2 replace mdf/idf air conditioning 2 ea 15,000.00 30,000 34,729 45,888 1 Integrated Automation upgrade temperature control system 52.620 saft 6.00 315.720 365.485 482.923 2 Mechanical Systems Subtotal: 488,194 645,060 **Electrical Systems** Power 10,000.00 10,000 11,576 15,296 2 upgrade electrical systems - priority 1 1 1 lpsm electrical to support technology 26 1,500.00 39,000 45,147 59,654 1 ea Lighting upgrade building exterior lighting 23 each 850.00 19,550 22,632 29,904 2 **Electrical Systems Subtotal:** 79,355 104,854 **Construction Subtotal:** 1,198,559 1,583,679 **Technology Infrastructure** demo coax/legacy cables 7,500.00 7,500 8,682 10,649 1 lpsm replace cabling infrastructure 52,620 sf 0.65 34,203 39,594 48,562 1 3.500.00 3.500 4,052 4.969 replace fiber to IDEs 1 ea 1 1 replace network switches - core/aggregate 5,000.00 5,000 5,788 7,099 1 ea 1 4.000.00 replace network switches - edge 48 000 55,566 68 152 12 ea 1 1 2 1,200.00 2,400 2,778 3,408 replace rack UPS ea 37,200 43,064 52,818 update wireless infrastructure 31 ea 1.200.00 2 upgrade phone system 25,000.00 25,000 28,941 35,496 lpsm **Technology Infrastructure Subtotal:** 188,465 231,152 **Technology Safety & Security** 30 ea 1.500.00 45.000 52,093 63,892 upgrade security camera system replace entrance intercoms 3 ea 3,500.00 10,500 12,155 14,908 1 1 2 52.620 sf በ 75 39,465 45,686 56,033 1 install emergency alert system 52,620 sf 1.25 65,775 76,143 93,389 replace PA systems 2 186,077 Technology Safety & Security Subtotal: 228,223 Technology & Safety Infrastructure Subtotal: 374,541 459,375 **REMODELING SUBTOTAL:** 1,573,100 2,043,055 SITE WORK Site Paving replace sidewalks 3,750 sqft 12 35 46.313 53,613 70,839 54,000 200,880 307,265 replace parking lots and bus loop 3.72 232.544 Site Paving Subtotal: 286,156 378,104 Site Improvements 250,000.00 250,000 289,406 382,398 upgrade playground equipment 1 lpsm 1 8,250 sqft 25.00 206,250 238,760 315,479 upgrade playground soft surfaces 1 1

6,000 sqft

1 lpsm

1.00

Site Improvement Subtotal:

SITE WORK SUBTOTAL:

52,000.00

6,000

52,000

6,946

60,197

595,309

881,465

9,178

79,539

786,593

1,164,697

2

2

upgrade site sign - digital

replace playground pavement surfaces

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSS	ION PL	IRPOSE ONLY			BARTO	N MALOW E	BUILDERS
2024 Bond Program	Gr	ades: I	<- 5					
Tenniswood Elementary	Year	Built: '	1973					
27733 Glenwood, Clinton Twp, MI	Building	Size: !	52 620					
Building Project Work List	·	Size: 8			1.158		Data	: 6/6/24
	Site	Size: 0	5.07		1.130		Date	. 0/0/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	28	each	1,250.00	35,000	40,517	49,694	2	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2
student desktops	40	each	800.00	32,000	37,044	45,434	1	1
mobile devices: k-5 (iPads)	385	each	400.00	154,000	178,274	218,653	1	1
mobile device storing/charging (classroom)	23	each	400.00	9,200	10,650	13,062	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	23	each	9,000.00	207,000	239,628	293,904	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
2	INSTR	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	526,951	646,305		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	12,000	13,892	17,038	1	2
	N	on-Inst	ructional Equipm	ent Subtotal:	29,519	36,206		
Furniture, Furnishings & Equipment (FFE)								
purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2
				&E Subtotal:	80,371	98,575		
			F, F, & I	E SUBTOTAL:	109,890	134,781		
			PRO	JECT TOTAL:	3,091,406	3,988,838		
			Construction	Contingency:	309,141			
Notes:			Permits / Genera	al Conditions:	91,521			
Scope of work is conceptual and will be detailed througho	ut the design phase		Design	Consultants:	261,905			
Indirect Costs include; contingency, general conditions &	professional fees			C.M. Costs:	234,865			
			BUIL	DING TOTAL:	3,988,838			

School Building Name

Tenniswood Elementary

Project No. [n] 8

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

- 1. List the number of teaching stations 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.

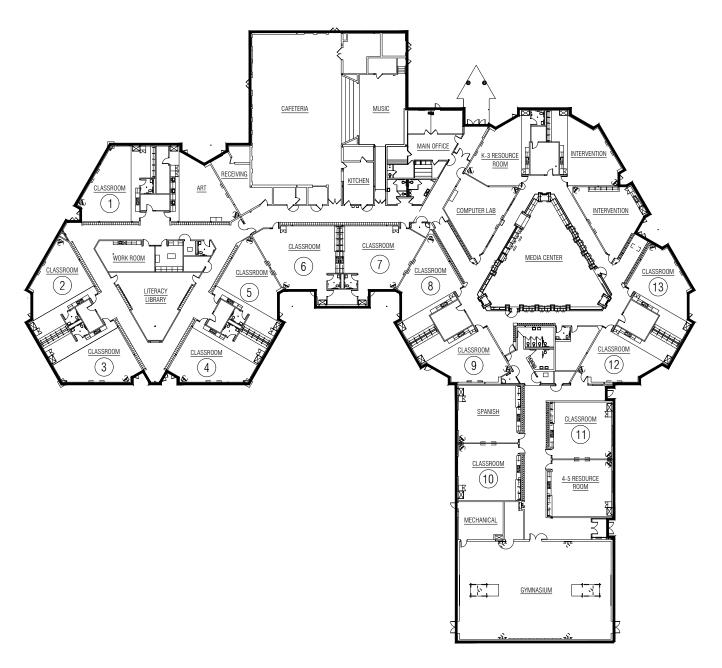
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment 330

Utilization Percentage __110%

(Projected 5-Year Enrollment / Total Capacity)











Yacks Elementary	Project No. [n]	9						
Proposal #:	Series 1	Series 2	n/a	n/a				
<u> </u>	New stand-alone bld	g New stand-alone blo	New stand-alone blo	New stand-alone blo	lg			
	New addition	New addition	New addition	New addition				
The associated Cost	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,			
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a			
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page			
breakdown of costs for	Buses	Buses	Buses	Buses	for each.			
each checked box.	✓ Site work	✓ Site work	Site work	Site work				
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)				
	Site acquisition	Site acquisition	Site acquisition	Site acquisition				
Construction Cost Per	· Square Foot							
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a				
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a				
Does this proposed project address any existing environmental or usability problems? (check all that apply)								
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements					
Other - please list:	1.	2.	3.					

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	552,498	1,280,433	0	0	1,832,931
Construction Contingencies	158,334	226,277	0	0	384,611
Instructional Technology	509,911	59,328	0	0	569,239
Loose Furnishing/Equipment	0	112,206	0	0	112,206
Buses	0	0	0	0	0
Site Work	520,931	810,801	0	0	1,331,732
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	133,433	193,000	0	0	326,433
CM Fees and Costs	147,527	274,897	0	0	422,424
Estimated Costs	2,022,633	2,956,942	0	0	4,979,575

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

m 9.4m	6/17/2024	PARTNERS in Architecture, PLC #447	723		
Signature	Date	Firm Name and License Number			
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600		
Printed Name	E-mail Address		Phone Number		

L'ANSE CREUSE PUBLIC SCHOOLS **BARTON MALOW BUILDERS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY** 2024 Bond Program Grades: K-5 **Yacks Elementary** Year Built: 1976 34700 Union Lake Road, Harrison Twp, MI Building Size: 56,567 **Building Project Work List** 1.158 Site Size: 9.97 Date: 6/6/24 Category Total Direct Subcategory Direct w/ w/ Indirect Phase / Otv Unit **Unit Cost** Escalation Costs **Description** Cost **Priority** Series REMODELING WORK **Exterior Work** Roofing roof work - priority 1 5.500.00 5.500 8.413 1 2 1 lpsm 6,367 Envelope replace exterior masonry 1 lpsm 82,500.00 82,500 95,504 126,191 1 2 22,000.00 2 upgrade select exterior glazing 1 lpsm 22,000 25,468 33,651 1 200.200.00 200.200 231,757 replace select exterior envelop materials 306,225 2 1 lpsm 1 Exterior Work Subtotal: 359,095 474,480 **Interior Work** replace drywall partitions & paint due to construction 1 lpsm 50,000.00 50,000 57,881 76,480 2 2 25,377 lpsm 228,400 264,402 349,359 replace carpet (classrooms & corridors) 9 00 1 1 replace VCT flooring (gym, cafeteria, service) 13,650 sqft 8.00 109,200 126,413 167,032 2 2 replace architectural trim out/specialties 1 lpsm 10,000.00 10,000 11,576 15,296 Interior Work Subtotal: 460,272 608,166 **Mechanical Systems** Plumbing Work 2 replace water heater, pump, water bottle filler, grease trap, & valves 1 lpsm 76,000.00 76,000 87,980 116,249 **HVAC System** replace mdf/idf air conditioning 3 ea 15,000.00 1 2 45,000 52,093 68,832 Integrated Automation 56,567 <u>ea</u> upgrade temperature controls 6.00 339.402 392,900 519.147 2 Mechanical Systems Subtotal: 532,973 704,228 **Electrical Systems** Power upgrade electrical systems - priority 1 4,350.00 5,036 6,654 2 1 lpsm 4.350 1,500.00 53,830 electrical to support technology 31 ea 46,500 71,126 1 1 upgrade building exterior lighting 850.00 24 ea 20.400 23,616 31,204 2 **Electrical Systems Subtotal:** 82,481 108,984 1,434,821 1,895,857 **Construction Subtotal: Technology Infrastructure** demo coax/legacy cables 1 lpsm 7,500.00 7,500 8,682 10,649 replace cabling infrastructure 56,567 sf 0.65 36,769 42,564 52,205 1 1 3,500.00 9,939 replace fiber to IDFs 2 ea 7,000 8,103 1 7,099 replace network switches - core/aggregate 5,000.00 5,788 1 ea 5.000 1 1 replace network switches - edge 13 4,000.00 52,000 60,197 73,831 ea 1 1 replace rack UPS 3 1.200.00 3,600 4,167 5,111 1 ea update wireless infrastructure 32 ea 1,200.00 38,400 44,453 54,521 2 upgrade phone system 25,000.00 25,000 28,941 35,496 lpsm **Technology Infrastructure Subtotal:** 202,895 248,851 **Technology Safety & Security** 30 ea 1,500.00 45,000 52,093 63,892 upgrade security camera system 1 1 3.500.00 10.500 12,155 14,908 replace entrance intercoms 3 ea 1 1 install emergency alert system 56,567 sf 0.75 42,425 49,113 60,237 2 1 70,709 81,854 100,394 replace PA systems 56.567 sf 1.25 2 Technology Safety & Security Subtotal: 195,215 239,431 398,110 488,282 Technology & Safety Infrastructure Subtotal: **REMODELING SUBTOTAL:** 2,384,139 1,832,931 SITE WORK **Site Paving** 541,400 46,100 sqft 11.74 626,738 828,122 repave south lot, drop off loop, and sidewalks

828,122 Site Paving Subtotal: 626,738 Site Improvements upgrade playground equipment 250,000.00 250,000 289,406 382,398 1 lpsm 1 1 8,000 sqft 200,000 231,525 305,919 upgrade playground soft surfaces 25.00 1 1 27,000 sqft 1.00 27,000 31,256 41,299 2 2 replace playground pavement surfaces 80,000.00 80,000 92,610 122,367 2 2 replace athletic fields, exterior courts, & furnishings 1 lpsm upgrade site sign - digital 52,000.00 52,000 60,197 79,539 lpsm

Site Improvement Subtotal: 704,994 931,522 SITE WORK SUBTOTAL: 1,331,732 1,759,644

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY BARTO						ON MALOW BUILDERS		
2024 Bond Program	Grades: K-5								
Yacks Elementary	Year	Built: ´	1976						
34700 Union Lake Road, Harrison Twp, MI	Building	Size:	56,567						
Building Project Work List	Site	Size: 9	9.97		1.158		Date	: 6/6/24	
Category					Direct	Total			
Subcategory				Direct	w/	w/ Indirect		Phase /	
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series	
INSTRUCTIONAL TECHNOLOGY									
Computers and Mobile Devices									
teacher computers (desktop + 1:1 device)	33	each	1,250.00	41,250	47,752	58,568	2	2	
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	2	
student desktops	40	each	800.00	32,000	37,044	45,434	1	1	
mobile devices: k-5 (iPads)	343	each	400.00	137,280	158,919	194,914	1	1	
mobile device storing/charging (classroom)	28	each	400.00	11,200	12,965	15,902	1	1	
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1	
Audiovisual									
classroom AV (display, sound, PA, doc camera)	28	each	9,000.00	252,000	291,722	357,796	1	1	
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1	
	INSTR	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	569,239	698,172			
FURNITURE, FURNISHINGS AND EQUIPMENT									
Non-Instructional Equipment									
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2	
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2	
purchase radio / walkie-talkies		each	400.00	14,000	16,207	19,878	1	2	
Furniture, Furnishings & Equipment (FFE)	N	on-Inst	ructional Equipm	ent Subtotal:	31,835	39,045			
purchase furniture	1	lpsm	69,427.50	69,428	80,371	98,575	2	2	
'		'	<u> </u>	&E Subtotal:	80,371	98,575			
				E SUBTOTAL:	112,206	137,620			
			PRO	JECT TOTAL:	3,846,107	4,979,575		_	
			Construction	Contingency:	384,611				
Notes:			Permits / Genera	al Conditions:	121,728				
Scope of work is conceptual and will be detailed throughout t	he design phase		Design	Consultants:	326,433				
Indirect Costs include; contingency, general conditions & pro				C.M. Costs:	300,695				
			BUIL	DING TOTAL:	4,979,575				

School Building Name

Yacks Elementary

Project No. [n] 9

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

- 1. List the number of teaching stations 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.

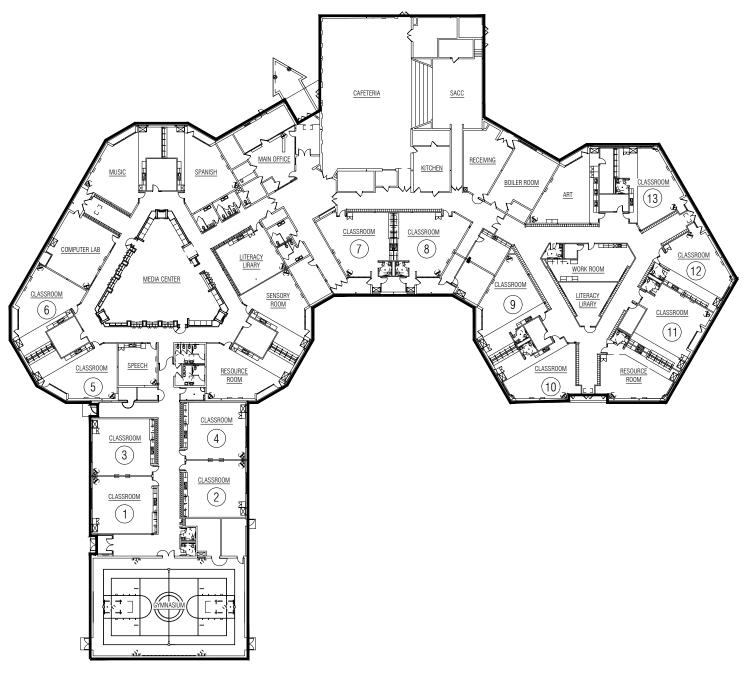
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment 330

Utilization Percentage 110%

(Projected 5-Year Enrollment / Total Capacity)











Middle School Central	Project No. [n]	10			
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
	New addition	New addition	New addition	New addition	
The associated Cost	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for	Buses	Buses	Buses	Buses	for each.
<u>each checked box</u> .	Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	: address any existing	environmental or us	sability problems? (<i>c</i> .	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		:

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	4,644,592	628,655	0	0	5,273,247
Construction Contingencies	545,508	264,210	0	0	809,718
Instructional Technology	810,488	140,362	0	0	950,850
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	1,725,573	0	0	1,725,573
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	464,091	225,031	0	0	689,122
CM Fees and Costs	629,585	311,992	0	0	941,577
Estimated Costs	7,094,264	3,443,337	0	0	10,537,601

I certify that	I have assessed	I the conditions	relative to	this facility	and the	details o	f the p	roposed	project(s)	described	above a	and the
attached det	tail relative to the	e construction p	roject(s) a	re true and	correct t	to the be	st of m	y knowle	edge and b	elief.		

4m 9.4m	6/17/2024	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nu	mber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - F	OR DISCUSS	SION P	JRPOSE ONLY			BARTOI	N MALOW I	BUILDE
2024 Bond Program	Gr	rades:	6-8					
iddle School Central	Year	Built:	1957					
3800 Reimold Road, Harrison Twp, MI	Building							
					1 150			
Building Project Work List	Site	Size:	13.33		1.158		Date	: 6/6/24
egory Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase Serie
MODELING WORK	,						, , , , , , , , , , , , , , , , , , , ,	
Exterior Work								
Roofing								
replace select gutters & downspouts	1	lpsm	2,000.00	2,000	2,315	3,059	1	1
Envelope								
replace exterior masonry	1	lpsm	159,242.86	159,243	184,344	243,577	1	1
replace exterior steel lintels	1	lpsm	50,000.00	50,000	57,881	76,480	1	1
upgrade select exterior glazing	1	lpsm	38,050.00	38,050	44,048	58,201	1	1
replace select exterior envelop materials	1	lpsm	77,000.00	77,000	89,137	117,779	1	1
reroute roof overflow drainage		lpsm	9,900.00	9,900	11,460	15,143	1	1
replace EIFS with metal panels	5,015	•	70.00	351,050	406,384	536,964	1	1
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	1
nterior Work			Exterior W	ork Subtotal:	871,973	1,152,155		
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction	1	lpsm	40,000.00	40,000	46,305	61,184	2	2
replace carpet (band and choir and select classrooms)	29,015	sf	9.00	261,100	302,256	399,377	1	1
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	38,240	1	1
renovate space for emerging programs	2,000		100.00	200,000	231,525	305,919	2	2
	·	'	Interior W	ork Subtotal:	637,967	842,959		
Mechanical Systems								
Plumbing Work	1		155 000 00	155.000	170 (22	227 007	1	
replace water heater, pump, water bottle filler, grease trap, & valves HVAC System	I	lpsm	155,000.00	155,000	179,432	237,087	1	ı
•	1	Incm	1 407 024 11	1 407 024	1 045 550	2 507 122	1	1
replace roof top units and classroom units, valves, pumps, & piping replace mdf/idf air conditioning		lpsm ea	1,697,924.11 15,000.00	1,697,924 75,000	1,965,559	2,597,133	1	1
Integrated Automation	3	еа	15,000.00	75,000	86,822	114,719	ı	1
upgrade temperature control system	101,828	caft	6.00	610,968	707,272	934,532	1	1
upgrade temperature controt system	101,020		Mechanical Syst		2,939,085	3,883,472	ı	'
Electrical Systems								
Power								
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1
Lighting	25	ea	850.00	29,750	34,439	/E E0E	1	1
upgrade building exterior lighting	33	ea	Electrical Syst		114,315	45,505 151,047	l I	<u> </u>
			_	tion Subtotal:	4,563,340	6,029,633		
Fechnology Infrastructure						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	101,828	sf	0.65	66,188	76,621	93,976	1	1
replace fiber to IDFs	4	ea	3,500.00	14,000	16,207	19,878	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	23	ea	4,000.00	92,000	106,502	130,624	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	5	ea	1,200.00	6,000	6,946	8,519	1	1
update wireless infrastructure	62	ea	1,200.00	74,400	86,127	105,635	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1
Cabanian Cafato 9 Casovito		Techr	ology Infrastruc	ture Subtotal:	366,490	449,500		
echnology Safety & Security upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	1	1
replace entrance intercoms		ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	101,828		3,300.00 0.75	76,371	88,409	108,434	1	2
replace PA systems	101,828		1.25	76,371 127,285	147,348	180,723	1	2
- opiaco i respeccino	•		ngy Safety & Secu		343,416	421,200	1	
			Safety Infrastruc	-	709,907	870,701		
	166111110	LULIV CY			.u7U/	U/U./UI		

105,100 sqft

1 lpsm

13.34

36,161.30

1,402,453

Site Paving Subtotal:

36,161

1,623,515

1,665,376

41,861

2,145,183

2,200,495

55,312

2

Site Paving

Site Improvements

replace curbs and concrete slabs

repave west and & south lots, sidewalks, and UG stormwater structures

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY					BARTOI	MALOW I	BUILDERS
2024 Bond Program	Gr	ades:	6-8					
Middle School Central	Year	Built: 1	1957					
3800 Reimold Road, Harrison Twp, MI	Building	Size 1	101 828					
	3				1 150		D-4-	
Building Project Work List	Site	Size: 1	13.33		1.158		Date	: 6/6/24
Category Subcategory				Direct	Direct w/	Total w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
			Site Improvem	ent Subtotal:	60,197	79,539		
			SITE WOR	K SUBTOTAL:	1,725,573	2,280,034		
INSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	592	each	350.00	207,130	239,779	294,089	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	43		9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTE	RUCTION	NAL TECHNOLOG	Y SUBTOTAL:	950,850	1,166,218		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	22,000	25,468	31,236	1	2
Franciscus Franciskissa Q Farriamant (FFF)	N	on-Inst	ructional Equipm	ent Subtotal:	41,096	50,404		
Furniture, Furnishings & Equipment (FFE) purchase furniture	1	lpsm	91,927.50	91,928	106,418	140,612	2	2
purchase furniture		трэпп	•	,&E Subtotal:	106,418	140,612		
			-	E SUBTOTAL:	147,513	191,016		
			PRO	JECT TOTAL:	8,097,183	10,537,601		
				Contingency:	809,718			
Notes:			Permits / General		281,395			
Scope of work is conceptual and will be detailed throughout to	he design phase			Consultants:	689,122			
Indirect Costs include; contingency, general conditions & pro				C.M. Costs:	660,182			
			BUIL	DING TOTAL:	•			

School Building Name

Middle School Central

Project No. [n] 10

Current Grade Structure 6-8

Proposed Grade Structure 6-8

- 1. List the number of teaching stations 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.

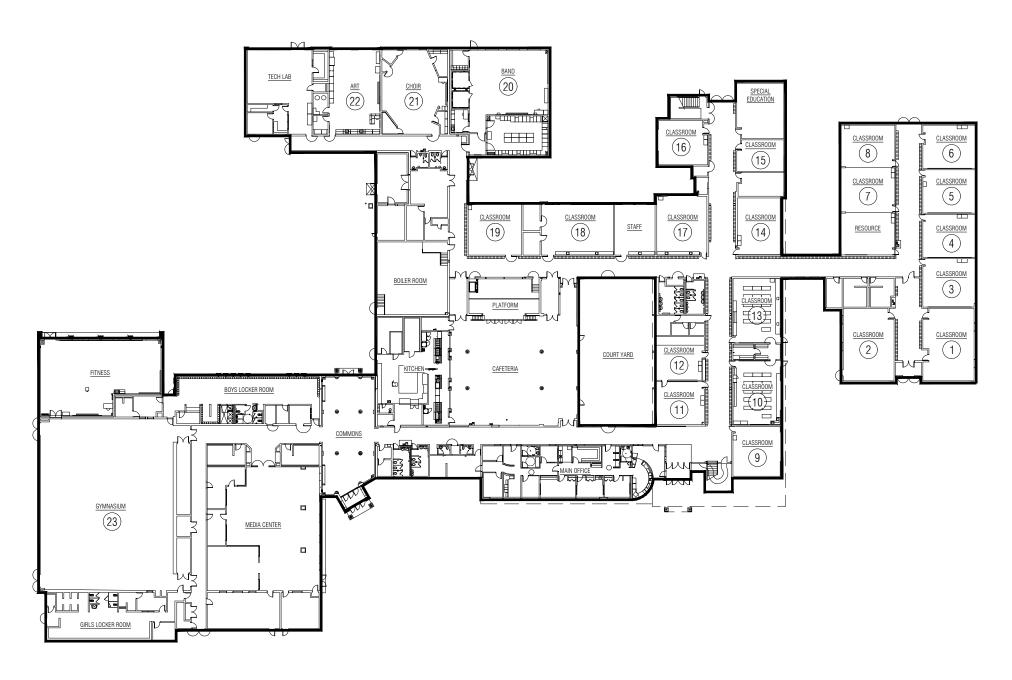
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	35	22.5	788
(9-12) High School	0	21.25	0
Subtotal	35		788
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
-	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

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

Projected 5-Year Enrollment ___550

Utilization Percentage 70%

(Projected 5-Year Enrollment / Total Capacity)



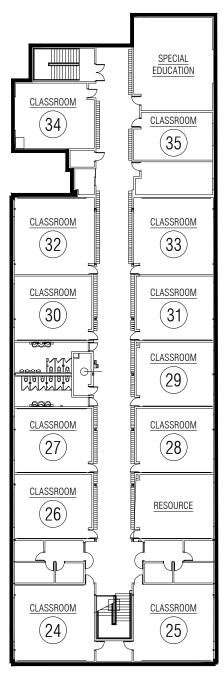


PARTNERS in Architecture, PLC

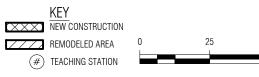














Middle School East				Project No. [n]	11
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	dg
	New addition	New addition	New addition	New addition	1
The associated Cost	✓ Remodeling	Remodeling	Remodeling	Remodeling	For multiple proposals,
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	☐ Instructional tech.	☐ Instructional tech.	include a
a clear, concise, and detailed explanation and breakdown of costs for each checked box.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
	Buses	Buses	Buses	Buses	for each.
	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Pe	r Square Foot				
New Stand-Alone C	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed projec	t address any existino	ı environmental or us	sability problems? (c	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		•

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	5,454,760	887,375	0	0	6,342,135
Construction Contingencies	775,767	221,040	0	0	996,807
Instructional Technology	836,783	180,879	0	0	1,017,662
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	1,466,129	994,631	0	0	2,460,760
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	661,459	187,264	0	0	848,722
CM Fees and Costs	936,233	233,313	0	0	1,169,546
Estimated Costs	10,131,131	2,852,015	0	0	12,983,146

I certify that I ha	ve assessed the	conditions r	relative to t	his facility	and the	details of	f the pr	oposed	project(s)	described	d above	and the
attached detail re	elative to the cor	nstruction pr	oject(s) ar	e true and	I correct t	to the bes	st of my	/ knowle	edge and b	oelief.		

m 9.4m	6/17/2024	PARTNERS in Architecture, PLC #	[‡] 44723
Signature	Date	Firm Name and Licen	se Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FI						BARTUI	N MALOW I	DUILDE
2024 Bond Program	Gr	ades:	6-8					
iddle School East	Year	Built:	2000					
30300 Hickey Road, Chesterfield, MI	Building	Size:	132.974					
Building Project Work List		Size:			1.158		Data	: 6/6/24
Building Project Work List	Sile	SIZE.	40.01				Date	. 0/0/24
stegory					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Serie
MODELING WORK								
Exterior Work								
Roofing								
roof work - priority 1	157,000	saft	5.00	785,000	908,736	1,200,731	1	1
Envelope	,			, , , , ,	,	,,		
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
replace select exterior doors - high priority	20	•	5,500.00	110,000	127,339	168,255	1	1
replace select exterior doors - medium priority	50	ea	5,500.00	275,000	318,347	420,638	1	1
			Exterior W	/ork Subtotal:	1,379,889	1,823,275		
Interior Work								
replace casework (countertops and hardware)	1	lpsm	150,000.00	150,000	173,644	229,439	1	1
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction		1	70,000.00	70,000	81,034	107,072	2	2
replace carpet (classrooms, media center, offices)	44,075	•	9.00	396,700	459,230	606,790	1	1
replace VCT flooring (cafeteria, music, & thresholds)	13,500	lpsm	8.00	108,000	125,024	165,196	2	2
replace architectural trim out/specialties	1	lpsm	24,500.00	24,500	28,362	37,475	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
			Interior W	Vork Subtotal:	1,127,758	1,490,130		
Mechanical Systems				1,305,882				
Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, $\&$ valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	1
HVAC System								
replace chiller, roof top units and classroom units, valves, pumps	1	lpsm	1,550,049.72	1,550,050	1,794,376	2,370,945	1	1
replace mdf/idf air conditioning	4	ea	15,000.00	60,000	69,458	91,776	1	1
Integrated Automation								
upgrade temperature control system	132,974		6.00	797,844	923,604	1,220,377	1	1
			Mechanical Syst	ems Subtotal:	2,875,417	3,799,347		
Electrical Systems								
Power								
upgrade electrical systems - priority 1		lpsm	3,500.00	3,500	4,052	5,354	1	1
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1
Lighting	/0		050.00	F1 000	F0 020	70.000		
upgrade building exterior lighting	60	ea	850.00 Electrical Syst	51,000	59,039 142,967	78,009	11	ı
				tion Subtotal:	5,526,031	188,905 7 201 454		
Technology Infrastructure			Construc	cion Subtotat.	3,320,031	7,301,656		
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	132,974	-	0.65	86,433	100,057	122,720	1	1
replace cabling infrastructure replace fiber to IDFs	•	ea	3,500.00	66,433 14,000	16,207	122,720	1	1
replace network switches - core/aggregate	1	ea ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - core/aggregate replace network switches - edge	•	ea ea	4,000.00	100,000	115,763	141,983	1	1
replace network switches - eage network switches - multigig		ea ea	4,000.00 10,000.00	100,000	115,763	141,983	1	1
replace rack UPS		ea ea	1,200.00	6,000	6,946	8,519	1	1
update wireless infrastructure		ea	1,200.00	75,600	87,516	107,339	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1
upgrade priorie system	ı	_	ology Infrastruc		400,577	491,307	I	- 1
Technology Safety & Security		I CCIIII	lotogy iliii asti uc	ture Subtotat.	400,377	471,307		
	55	ea	1,500.00	82,500	95,504	117,136	1	1
ungrade security camera system		ea	3,500.00	10,500	12,155	14,908	1	1
upgrade security camera system replace entrance intercoms	3		0.75	99,731	115,451	141,600	1	2
replace entrance intercoms		sf	0.73				1	2
replace entrance intercoms install emergency alert system	132,974		1 25	166 218	197 418	736 HHH	l l	_
replace entrance intercoms	132,974 132,974	sf	1.25	166,218	192,418 415 - 527	236,000 509 - 644	ı	
replace entrance intercoms install emergency alert system	132,974 132,974 T o	sf echnolo	gy Safety & Secu	ırity Subtotal:	415,527	509,644	<u> </u>	
replace entrance intercoms install emergency alert system	132,974 132,974 T o	sf echnolo	gy Safety & Secu Safety Infrastruc	urity Subtotal: ture Subtotal:	415,527 816,104	509,644 1,000,951	<u> </u>	
replace entrance intercoms install emergency alert system replace PA systems	132,974 132,974 T o	sf echnolo	gy Safety & Secu Safety Infrastruc	ırity Subtotal:	415,527	509,644	ı	
replace entrance intercoms install emergency alert system replace PA systems	132,974 132,974 T o	sf echnolo	gy Safety & Secu Safety Infrastruc	urity Subtotal: ture Subtotal:	415,527 816,104	509,644 1,000,951	'	
replace entrance intercoms install emergency alert system replace PA systems TE WORK Site Paving	132,974 132,974 To Techno	sf echnolo logy & S	gy Safety & Secu Safety Infrastruc REMODELIN	urity Subtotal: ture Subtotal: IG SUBTOTAL:	415,527 816,104 6,342,135	509,644 1,000,951 8,302,607	·	
replace entrance intercoms install emergency alert system replace PA systems TE WORK Site Paving repave lots and UG storm water structures, drives, & sidewalks	132,974 132,974 To Techno	sf echnolo logy & \$	gy Safety & Secu Safety Infrastruc REMODELIN 10.12	urity Subtotal: ture Subtotal: IG SUBTOTAL:	415,527 816,104 6,342,135	509,644 1,000,951 8,302,607	1	1
replace entrance intercoms install emergency alert system replace PA systems TE WORK Site Paving	132,974 132,974 To Techno	sf echnolo logy & \$	ngy Safety & Secu Safety Infrastruc REMODELIN 10.12 1.00	urity Subtotal: ture Subtotal: IG SUBTOTAL: 1,235,497 31,000	415,527 816,104 6,342,135 1,430,242 35,886	509,644 1,000,951 8,302,607 1,889,808 47,417	·	1 1
replace entrance intercoms install emergency alert system replace PA systems TE WORK Site Paving repave lots and UG storm water structures, drives, & sidewalks	132,974 132,974 To Techno	sf echnolo logy & \$	ngy Safety & Secu Safety Infrastruc REMODELIN 10.12 1.00	urity Subtotal: ture Subtotal: IG SUBTOTAL:	415,527 816,104 6,342,135	509,644 1,000,951 8,302,607	1	1 1

L'ANSE CREUSE PUBLIC SCHOOLS	ELIMINARY - FOR DISCUSS	ION PL	IRPOSE ONLY			BARTO	N MALOW	BUILDERS
2024 Bond Program	Gr	ades:	6-8					
Middle School East	Year	Built: 2	2000					
30300 Hickey Road, Chesterfield, MI	Building	Size:	132.974					
Building Project Work List		Size: 4			1.158		Data	: 6/6/24
<u> </u>	3116	SIZE.	40.01				Date	. 0/0/24
Category				Diversi	Direct	Total		Dhara /
Subcategory	Qty	Unit	Unit Cost	Direct Cost	w/ Eccelation	w/ Indirect	Priority	Phase / Series
Description	uty	UIIIL	Unit Cost	CUSI	Escalation	Costs	Priority	Series
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
			Site Improvem		994,631	1,314,226		
			SITE WOR	K SUBTOTAL:	2,460,760	3,251,451		
NSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	657	each	350.00	229,845	266,074	326,340	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
kiva audiovisual	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
	INSTE	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	1,017,662	1,248,163		
URNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	22,000	25,468	31,236	1	2
	N	on-Inst	ructional Equipm	ent Subtotal:	41,096	50,404		
Furniture, Furnishings & Equipment (FFE)								
purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
			<u>-</u>	,&E Subtotal:	106,418	130,521		
			F, F, &	E SUBTOTAL:	147,513	180,925		
			PRO	JECT TOTAL:	9,968,071	12,983,146		
			Construction	Contingency:	996,807			
Votes:			Permits / Genera	al Conditions:	351,419			
Scope of work is conceptual and will be detailed throughout t	he design phase		Design	Consultants:	848,722			
Indirect Costs include; contingency, general conditions & pro	fessional fees			C.M. Costs:	818,127			
			BUIL	DING TOTAL:	12,983,146			

School Building Name

Middle School East

Project No. [n] 11

Current Grade Structure 6-8

Proposed Grade Structure 6-8

- 1. List the number of teaching stations 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.

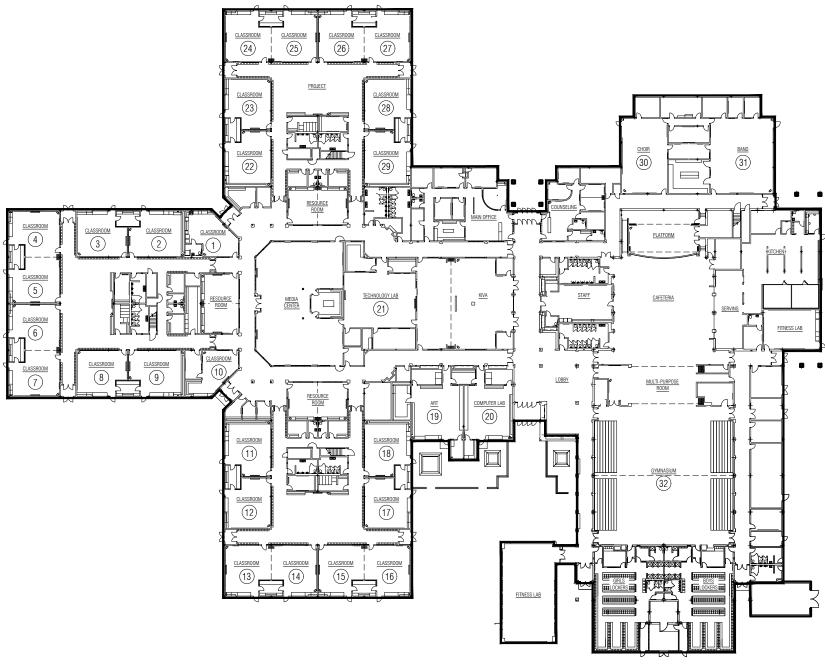
	List # of Teaching					
Existing	Stations	Capacity Factor	Capacity			
(K-2) Lower Elementary	0	0 20				
(3-5) Upper Elementary	0	0 25				
(6-8) Junior High	32	22.5	720			
(9-12) High School	0	21.25	0			
Subtotal	32		720			
	List # of					
Proposed New	Teaching Stations	Capacity Factor	Capacity			
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0			
<u> </u>	Teaching Stations	Factor				
(K-2) Lower Elementary	Teaching Stations	Factor 20	0			
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0 0	20 25	0			
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0			

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

Projected 5-Year Enrollment 510

Utilization Percentage 71%

(Projected 5-Year Enrollment / Total Capacity)











Middle School North	Project No. [n]	12					
Proposal #:	Series 1	Series 2	n/a	n/a			
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.	New stand-alone bld	New stand-alone blo	New stand-alone blo	lg			
	New addition	New addition	New addition	New addition			
	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,		
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a		
	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page		
	Buses	Buses	Buses	Buses	for each.		
	Site work	✓ Site work	Site work	Site work			
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)			
	Site acquisition	Site acquisition	Site acquisition	Site acquisition			
Construction Cost Per Square Foot							
New Stand-Alone Construction Square Ft		n/a	Cost per Sq Ft	n/a			
Ne	w Addition Square Ft.	n/a Cost per Sq Ft		n/a			
Does this proposed project address any existing environmental or usability problems? (check all that apply)							
☐ None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements				
Other - please list:	1.	2.	3.				

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	605,498	3,717,714	0	0	4,323,212
Construction Contingencies	144,002	452,872	0	0	596,874
Instructional Technology	834,520	140,362	0	0	974,882
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	523,131	0	0	523,131
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	119,674	386,740	0	0	506,415
CM Fees and Costs	87,569	563,148	0	0	650,717
Estimated Costs	1,791,264	5,931,480	0	0	7,722,744

I certify that	I have assesse	d the conditions	relative to this	facility and	the details o	of the propose	d project(s)	described a	bove and the
attached de	tail relative to th	e construction p	oroject(s) are ti	rue and corre	ct to the be	st of my know	ledge and b	elief.	

6/17/2024	PARTNERS in Architecture, PLC #447	23	
Date	Firm Name and License Number		
mmalone@partners	sinarch.com	586-469-3600	
E-mail Address		Phone Number	
	Date mmalone@partners	Date Firm Name and License Nummalone@partnersinarch.com	

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSSI	ION PU	RPOSE ONLY			BARTO	N MALOW E	BUILDER
2024 Bond Program		ades:						
1iddle School North	Year E	Built: 1	965					
46201 Fairchild Road, Macomb, MI	Building S							
					1 150		Б.	,,,,,,,,,
Building Project Work List	Site	Size: 2	4.11		1.158		Date:	6/6/24
ategory					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
EMODELING WORK								
Exterior Work								
Roofing								
roof work - priority 1	26,500	sqft	25.89	686,085	794,229	1,049,431	1	2
Envelope upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
reroute roof overflow drainage		lpsm	315,000.00	315,000	364,652	481,822	1	2
replace select exterior doors - high priority		lpsm	5,500.00	66,000	76,403	100,953	1	2
<u></u>			,	rk Subtotal:	1,260,752	1,665,857		
Interior Work								
replace interior openings		lpsm	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction		lpsm	70,000.00	70,000	81,034	107,072	2	2
replace carpet (classrooms, media center, offices)	51,200	-	9.00	460,800	533,434	704,836	1	2
replace architectural trim out/specialties		lpsm	24,500.00 100.00	24,500	28,362	37,475	1	1 2
renovate space for emerging programs replace lockers	2,000 675	-	200.00	200,000 135,000	231,525 156,279	305,919 206,495	2 1	2 1
Teptace tockers	073	ca		rk Subtotal:	1,094,303	1,445,924	'	'
Mechanical Systems					.,,	., ,		
Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System								
replace roof top units, classroom units, pumps, valves, & select piping		lpsm	442,000.00	442,000	511,670	676,080	1	2
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	2
Integrated Automation	0///0	C 1	/ 00	F10.0/0	(01.700	705 177	1	2
upgrade temperature controls	86,640		6.00 Mechanical Syster	519,840	601,780 1,253,523	795,144 1,656,305	1	2
Electrical Systems		•	-icciiaiiicat Systei	iis Subtotat.	1,200,020	1,000,000		
Power								
panels for new mechanical	1	allo	25,000.00	25,000	28,941	38,240	1	2
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	1	1
			Electrical System		108,817	143,782		
Technology Infrastructure			Constructi	on Subtotal:	3,717,394	4,911,867		
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	78,388		0.65	50,952	58,984	72,343	1	1
replace fiber to IDFs		ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	19	ea	4,000.00	76,000	87,980	107,907	1	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure		ea	1,200.00	72,000	83,349	102,228	1	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1	1
Tachnalagu Cafatu 9 Casusitu		Techn	ology Infrastructu	re Subtotal:	316,671	388,397		
Technology Safety & Security	55	02	1,500.00	82,500	95,504	117,136	1	1
upgrade security camera system replace entrance intercoms		ea ea	3,500.00	82,500 10,500	95,504 12,155	117,136	1	1 1
install emergency alert system	78,388		0.75	58,791	68,058	83,473	1	2
replace PA systems	78,388		1.25	97,985	113,430	139,122	1	2
· · · · ·	•		gy Safety & Secur	· · · · · · · · · · · · · · · · · · ·	289,147	354,639		
			afety Infrastructu	-	605,818	743,036		
			REMODELING	SUBTOTAL:	4,323,212	5,654,903		
TE WORK								
Site Paving								
repave north lot and receiving parking lot, bus loop and drive	45,100	sqft	8.87	399,900	462,934	611,684	1	2
			Site Pavi	ng Subtotal:	462,934	611,684		
Site Improvements	4	1	F2 000 00	F0 000	/0.107	70 500	2	•
upgrade site sign - digital	1	lpsm	52,000.00	52,000	60,197	79,539	2	2
			Cito Impressor	nt Ciibtata'i	ፈስ ነበን			
			Site Improveme	ent Subtotal: (SUBTOTAL:	60,197 523,131	79,539 691,223		

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSS	ION PL	JRPOSE ONLY			BARTOI	N MALOW I	BUILDERS
2024 Bond Program	Gr	ades:	6-8					
Middle School North	Year	Built:	1965					
46201 Fairchild Road, Macomb, MI	Building	Size:	78,388					
Building Project Work List	Site	Size:	24.11		1.158		Date	: 6/6/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2
classroom printers	53	each	250.00	13,250	15,339	18,813	1	1
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2
student desktops	69	each	800.00	55,200	63,901	78,374	1	1
mobile devices: 6-12	686	each	350.00	240,240	278,108	341,099	1	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTR	UCTIO	NAL TECHNOLOGY	SUBTOTAL:	974,882	1,195,693		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	22,000	25,468	31,236	1	2
Furniture, Furnishings & Equipment (FFE)	N	on-Inst	ructional Equipme	ent Subtotal:	41,096	50,404		
purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2
'			· · · · · · · · · · · · · · · · · · ·	&E Subtotal:	106,418	130,521		
				SUBTOTAL:	147,513	180,925		
			PRO.	JECT TOTAL:	5,968,738	7,722,744		_
			Construction (Contingency:	596,874			
Notes:			Permits / Genera	l Conditions:	186,583			
Scope of work is conceptual and will be detailed throughou	ut the design phase		Design	Consultants:	506,415			
Indirect Costs include; contingency, general conditions & p	orofessional fees			C.M. Costs:	464,134			
			BUILI	DING TOTAL:	7,722,744			

Building Utilization

School Building Name

Middle School North

Project No. [n] 12

Current Grade Structure 6-8

Proposed Grade Structure 6-8

- 1. List the number of teaching stations 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	34	22.5	765
(9-12) High School	0	21.25	0
Subtotal	34		765
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
-	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

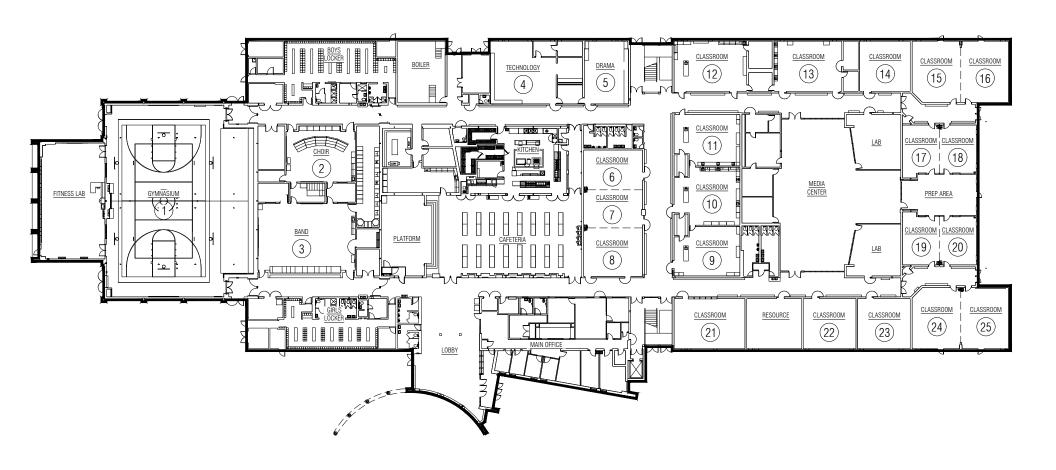
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 540

Utilization Percentage ___71%

(Projected 5-Year Enrollment / Total Capacity)

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

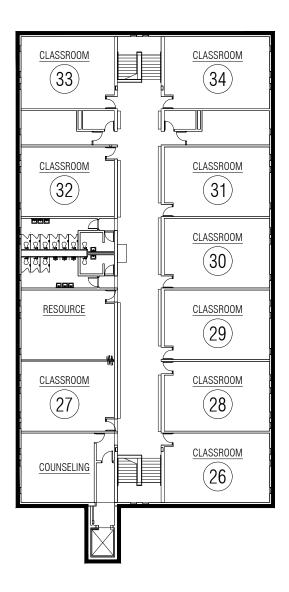


















Middle School South				Project No. [n]	13	
Proposal #:	Series 1	Series 2	n/a	n/a		
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	dg	
The associated Cost	New addition	New addition	New addition	New addition	1	
	✓ Remodeling	Remodeling	Remodeling	Remodeling	For multiple proposals,	
Detail page must include	Instructional tech.	Instructional tech.	Instructional tech.	Instructional tech.	include a	
a clear, concise, and detailed explanation and breakdown of costs for each checked box.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page	
	Buses	Buses	Buses	Buses	for each.	
	Site work	✓ Site work	Site work	Site work	-	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)		
	Site acquisition	Site acquisition	Site acquisition	Site acquisition		
Construction Cost Per	Square Foot					
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	_	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a		
Does this proposed project	address any existing	ı environmental or us	sability problems? (<i>cl</i>	heck all that apply)		
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements			
Other - please list:	1.	2.	3.			

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	498,051	5,374,225	0	0	5,872,277
Construction Contingencies	128,131	731,086	0	0	859,217
Instructional Technology	783,261	140,362	0	0	923,623
Loose Furnishing/Equipment	0	147,513	0	0	147,513
Buses	0	0	0	0	0
Site Work	0	1,648,758	0	0	1,648,758
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	106,163	625,350	0	0	731,513
CM Fees and Costs	68,985	937,480	0	0	1,006,465
Estimated Costs	1,584,591	9,604,774	0	0	11,189,366

I certify that	l have assesse	d the conditions	relative to	this facility	and the	details of	f the pr	oposed	project(s)	described	above a	and the
attached det	ail relative to th	e construction p	roject(s) ar	e true and	correct t	to the bes	st of my	/ knowle	dge and b	elief.		

4m 9.4m		6/17/2024	PARTNERS in Architecture, PLC #447	23
Signature		Date	Firm Name and License Nu	mber
Michael A. Malone	, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO						BARTOI	N MALOW E	BUILDEI
2024 Bond Program		ades:						
iddle School South		Built:						
34641 Jefferson Ave, Harrison Twp, MI	Building 9	Size: '	91,747					
Building Project Work List	Site	Size: 2	24.20		1.158		Date:	: 6/6/24
tegory					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Serie
MODELING WORK								
Exterior Work Roofing								
roof work - priority 1	17,440	sqft	25.03	436,523	505,330	667,703	1	2
roof work - priority 2	61,960	sqft	25.03	1,550,859	1,795,313	2,372,183	2	2
Envelope								
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2	2
reroute roof overflow drainage		lpsm	21,400.00	21,400	24,773	32,733	1	2
replace select exterior doors - high priority	12	ea	5,500.00	66,000	76,403	100,953	1	2
Interior Work			Exterior W	ork Subtotal:	2,427,287	3,207,223		
replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
replace drywall partitions & paint due to construction	1	lpsm	85,000.00	85,000	98,398	130,015	2	2
replace carpet (2nd floor classrooms & corridor)	11,800	lpsm	9.00	106,200	122,940	162,443	1	2
replace architectural trim out/specialties	1	lpsm	50,000.00	50,000	57,881	76,480	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
replace telescoping bleachers	400	seats	200.00	80,000	92,610	122,367	2	2
			Interior W	ork Subtotal:	632,295	835,464		
Mechanical Systems Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	1	2
HVAC System		•	•	·		·		
replace roof top units and classroom units, valves, pumps	1	lpsm	1,080,000.00	1,080,000	1,250,235	1,651,961	1	2
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1	2
Integrated Automation								
upgrade temperature control system	91,747		6.00	550,482	637,252	842,013	1	2
-			Mechanical Systo	ems Subtotal:	2,027,559	2,679,055		
Electrical Systems Power								
upgrade electrical systems - priority 1 (new panels for mech)	1	allo	25,000.00	25,000	28,941	38,240	1	2
electrical to support technology	46		1.500.00	69,000	79,876	105,542	1	1
Lighting	40	cu	1,000.00	07,000	77,070	103,542	'	
upgrade building exterior lighting	22	ea	850.00	18,700	21,648	28,603	1	2
			Electrical Syste	•	130,464	172,385		
Taska alamu lafaastaustuus			Construc	tion Subtotal:	5,217,606	6,894,127		
Technology Infrastructure demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	91,747		0.65	59,636	69,036	84,672	1	1
replace fiber to IDFs	-	ea	3,500.00	7,000	8,103	9,939	1	1
replace network switches - core/aggregate		ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge		ea	4,000.00	84,000	97,241	119,265	1	1
network switches - multigig		ea	10,000.00	10,000	11,576	14,198	1	1
replace rack UPS		ea	1,200.00	3,600	4,167	5,111	1	1
update wireless infrastructure		ea	1,200.00	70,800	81,960	100,524	1	2
upgrade phone system		lpsm	35,000.00	35,000	40,517	49,694	1	1
_10 , ,		Techn	ology Infrastruct		334,595	410,380		
Technology Safety & Security			4 500 55	00.505	05.55	447451	4	
upgrade security camera system	55		1,500.00	82,500	95,504	117,136	1	1
replace entrance intercoms		ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system	91,747		0.75	68,810	79,656	97,699 142 921	1	2
replace PA systems	91,747 To		1.25	114,684	132,761	162,831	1	2
			gy Safety & Secu Safety Infrastruct	-	320,076 654,671	392,574 802,954		
	i ecillioti	Jyy & S	-	G SUBTOTAL:	5,872,277	7,697,081		
TE WORK					.,=,	, ,		
Site Paving								
	144,800	sqft	7.83	1,133,784	1,312,497	1,734,228	1	2
repave south east lot, drive, sidewalks, and UG stormwater structures	144,000				4 040 400	1 70/ 000		
	144,000		Site Pa	ving Subtotal:	1,312,497	1,734,228		
repave south east lot, drive, sidewalks, and UG stormwater structures Site Improvements replace athletic fields, exterior courts, & furnishings		lpsm	Site Pav 238,475.00	238,475	276,065	364,770	2	2

L'ANSE CREUSE PUBLIC SCHOOLS	RELIMINARY - FOR DISCUSS	ION PL	IRPOSE ONLY			BARTO	N MALOW	BUILDERS	
2024 Bond Program	Gr	ades:	6-8						
Middle School South	Year	Built: 1	1973						
34641 Jefferson Ave, Harrison Twp, MI	Building	Size. (91 747						
					1.158		Date: 6/6/24		
Building Project Work List	Site	Size: 2	24.20		1.130		Date	: 0/0/24	
Category				- ·	Direct	Total			
Subcategory				Direct	w/	w/ Indirect		Phase /	
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series	
			Site Improvem	ent Subtotal:	336,261	444,309			
			SITE WOR	K SUBTOTAL:	1,648,758	2,178,537			
INSTRUCTIONAL TECHNOLOGY									
Computers and Mobile Devices									
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2	2	
classroom printers	53	each	250.00	13,250	15,339	18,813	1	1	
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2	
student desktops	133	each	800.00	106,400	123,171	151,070	1	1	
mobile devices: 6-12	414	each	350.00	144,760	167,578	205,534	1	1	
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1	1	
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1	
Audiovisual									
classroom AV (display, sound, PA, doc camera)	43		9,000.00	387,000	448,001	549,473	1	1	
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2	
conference room / IEP	1 INCT	each	5,000.00 NAL TECHNOLOG	5,000	5,788	7,099	11	1	
	INSTR	KUCIIUI	NAL TECHNOLOG	Y SUBTUTAL:	923,623	1,132,823			
FURNITURE, FURNISHINGS AND EQUIPMENT									
Non-Instructional Equipment	1		2.500.00	2.500	/ 050	/ 0/0			
purchase plotters		ea	3,500.00	3,500	4,052	4,969	1	2	
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1	2	
purchase radio / walkie-talkies		each	400.00 ructional Equipm	22,000	25,468 41,096	31,236 50,404	11	2	
Furniture, Furnishings & Equipment (FFE)	.,	OII 11130	ractionat Equipm	ciit Subtotut.	41,070	00,404			
purchase furniture	1	lpsm	91,927.50	91,928	106,418	130,521	2	2	
			F,F,	,&E Subtotal:	106,418	130,521			
			F, F, &	E SUBTOTAL:	147,513	180,925			
			PRO	JECT TOTAL:	8,592,171	11,189,366			
				Contingency:	859,217				
Notes:			Permits / Genera		302,120				
Scope of work is conceptual and will be detailed throughout t	he design phase		Design	Consultants:	731,513				
Indirect Costs include; contingency, general conditions & pro	fessional fees			C.M. Costs:	704,345				
			BUIL	DING TOTAL:	11,189,366				

Building Utilization

School Building Name

Middle School South

Project No. [n] 13

Current Grade Structure 6-8
Proposed Grade Structure 6-8

- 1. List the number of teaching stations 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	27	22.5	608
(9-12) High School	0	21.25	0
Subtotal	27		608
Proposed New	List # of Teaching Stations	Capacity Factor	
	Stations	racioi	Capacity
(K-2) Lower Elementary	0	20	Capacity 0
(K-2) Lower Elementary (3-5) Upper Elementary			
	0	20	0
(3-5) Upper Elementary	0	20	0
(3-5) Upper Elementary (6-8) Junior High	0 0 0	20 25 22.5	0 0 0

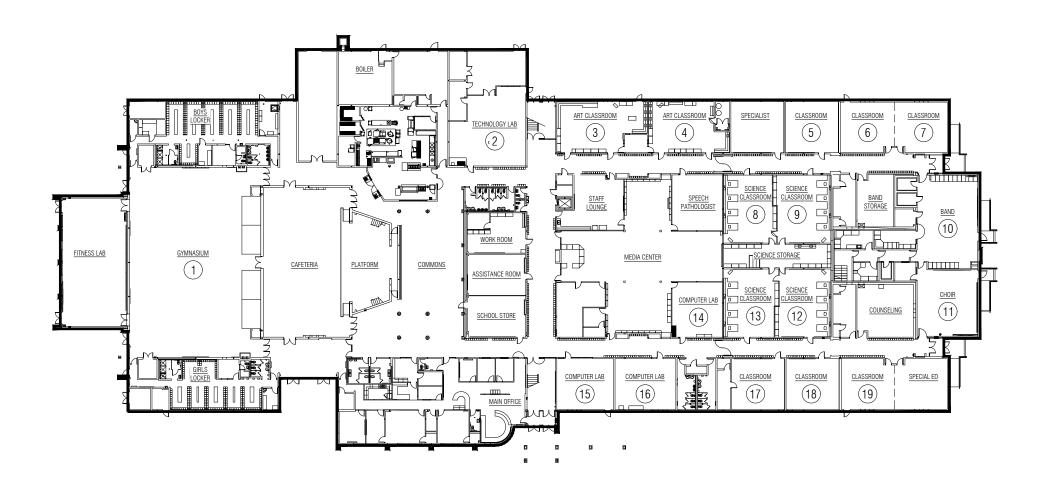
Facility to be Closed	List # of Teaching Stations	eaching Capacity		
(K-2) Lower Elementary	0	20	0	
(3-5) Upper Elementary	0	25	0	
(6-8) Junior High	0	22.5	0	
(9-12) High School	0	21.25	0	
Total	0		0	

Projected 5-Year Enrollment 480

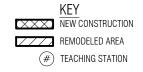
Utilization Percentage ___79%

(Projected 5-Year Enrollment / Total Capacity)

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

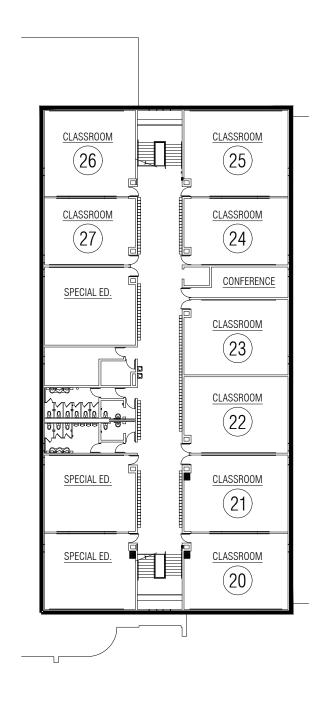




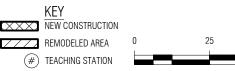














L'Anse Creuse High Scho	L'Anse Creuse High School				
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
The associated Cost	New addition	New addition	New addition	New addition	
	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for	Buses	Buses	Buses	Buses	for each.
each checked box.	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	g environmental or us	ability problems? (cl	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	6,602,675	4,960,062	0	0	11,562,737
Construction Contingencies	1,545,641	801,318	0	0	2,346,959
Instructional Technology	1,525,055	201,137	0	0	1,726,193
Loose Furnishing/Equipment	0	531,525	0	0	531,525
Buses	0	0	0	0	0
Site Work	7,328,675	2,320,459	0	0	9,649,134
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	1,318,255	683,877	0	0	2,002,132
CM Fees and Costs	1,875,425	984,616	0	0	2,860,041
Estimated Costs	20,195,726	10,482,995	0	0	30,678,721

I certify that	I have assessed	I the conditions	relative to	this facility	and the	details o	f the p	roposed	project(s)	described	above a	and the
attached de	tail relative to the	construction p	roject(s) ar	e true and	correct t	to the be	st of m	y knowle	dge and b	elief.		

an a.m	6/17/2024	PARTNERS in Architecture, PLC	#44723
Signature	Date	Firm Name and Lic	ense Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

L'ANSE CREUSE PUBLIC SCHOOLS Grades: 9-12

BARTON MALOW BUILDERS

Date: 6/6/24

L'Anse Creuse High School

2024 Bond Program

Year Built: 1955 Building Size: 213,591

38495 L'Anse Creuse Road, Harrison Twp, MI **Building Project Work List**

Site Size: 30.02 1.158

Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series

Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
MODELING WORK								
Exterior Work								
Roofing								
roof work - priority 1	90,000	sqft	25.00	2,250,000	2,604,656	3,441,584	1	1
Envelope								
replace exterior masonry		lpsm	273,055.00	273,055	316,095	417,663	1	1
upgrade select exterior glazing	1	lpsm	46,000.00	46,000	53,251	70,361	1	1
replace select exterior envelop materials	1	lpsm	100,000.00	100,000	115,763	152,959	1	1
reroute roof overflow drainage		lpsm	31,500.00	31,500	36,465	48,182	1	1
replace EIFS with metal panel	11,100	sqft	70.00	777,000	899,475	1,188,494	1	1
replace select exterior doors - high priority	20	lpsm	5,500.00	110,000	127,339	168,255	1	1
			Exterior W	/ork Subtotal:	4,153,043	5,487,499		
Interior Work	1	Inom	E0 000 00	E0 000	E7 001	7/ /00	2	2
replace interior openings	•	lpsm	50,000.00	50,000	57,881	76,480	2	2
replace drywall partitions & paint due to construction		lpsm	90,000.00	90,000	104,186	137,663	2	2
replace carpet (select classrooms)	19,300		9.00	173,700	201,079	265,690	1	2
replace architectural trim out/specialties		lpsm	50,000.00	50,000	57,881	76,480	1	1
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	2	2
upgrade music program (4 pre-fab studios & music spaces)	1	lpsm	500,000.00	500,000	578,813	764,797	2	2
			Interior W	Vork Subtotal:	1,333,237	1,761,632		
Mechanical Systems Plumbing Work								
replace water heater, pumps, select toilet room faucets & flush valves,								
	1	lpsm	151,000.00	151,000	174,801	230,969	1	1
water bottle fillers, and grease traps	1		F / O OOO OO	F / O OOO	/05 110	025 000	1	1
replace pool system equipment	1	lpsm	540,000.00	540,000	625,118	825,980	1	1
HVAC System								
replace select RTUs, classroom units, valves, pumps, and piping	1	lpsm	317,800.01	317,800	367,893	486,105	1	2
replace pool and locker room mechanical equipment	1	lpsm	308,750.00	308,750	357,417	472,262	1	1
replace mdf/idf air conditioning	8	ea	15,000.00	120,000	138,915	183,551	1	2
locker rooms HVAC upgrades (duct and mechanical units)	1	allo	175,000.00	175,000	202,584	267,679	1	1
Integrated Automation			,	,	•	,		
upgrade temperature control system	213,591	sqft	6.00	1,281,546	1,483,550	1,960,244	1	2
			dechanical Syst	ems Subtotal:	3,350,278	4,426,789		
Electrical Systems								
Power	٦,		4 500 00	444.000	101.010	474.074		
electrical to support technology	76	ea	1,500.00	114,000	131,969	174,374	1	1
Lighting								
upgrade building exterior lighting	30	ea	850.00	25,500	29,519	39,005	1	1
Electronic Safety & Security								
replace fire alarm system	131,780	sqft	7.00	922,460	1,067,863	1,410,988	1	2
			Electrical Syst	ems Subtotal:	1,229,351	1,624,367		
				tion Subtotal:	10,065,909	13,300,287		
echnology Infrastructure			10.000.00	10.000	44.577	1/100		
data cabling for renovations		ea	10,000.00	10,000	11,576	14,198	1	1
demo coax/legacy cables		lpsm	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure	213,591	sf	0.65	138,834	160,718	197,120	1	1
replace fiber to IDFs	9	ea	3,500.00	31,500	36,465	44,725	1	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge	52	ea	4,000.00	208,000	240,786	295,324	1	1
network switches - multigig		ea	10,000.00	20,000	23,153	28,397	1	1
replace rack UPS	10		1,200.00	12,000	13,892	17,038	1	1
update wireless infrastructure		ea	1,200.00	114,000	131,969	161,860	1	2
•			50,000.00	50,000	57,881	70,991	1	1
upgrade phone system	ı	lpsm Techno	ology Infrastruc		698,435	856,630	ı	- 1
echnology Safety & Security			- 5, 2011 40					
upgrade security camera system	175	ea	1,500.00	262,500	303,877	372,705	1	1
install emergency alert system	213,591	sf	0.75	160,193	185,444	227,447	1	2
replace PA systems	213,591		1.25	266,989	309,073	379,078	1	2

Technology Safety & Security Subtotal: 979,229 Technology & Safety Infrastructure Subtotal: 1,496,828 1,835,859 REMODELING SUBTOTAL: 11,562,737 15,136,147

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY -	FOR DISCUSS	ION P	JRPOSE ONLY			BARTOI	N MALOW E	BUILDERS
2024 Bond Program	Gr	ades:	9-12					
L'Anse Creuse High School	Year	Built:	1955					
38495 L'Anse Creuse Road, Harrison Twp, MI	Building	Size.	213 591					
	Ť	Size:			1 150		Doto	6/6/24
Building Project Work List	Site	Size:	30.02		1.158		Date	0/0/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
SITE WORK								
Site Paving								
repave main parking lot, drives, speed bumps, and replace sidewalks	1	lpsm	1,912,500.00	1,912,500	2,213,958	2,925,347	1	2
			Site Pa	ving Subtotal:	2,213,958	2,925,347		
Site Improvements			1 010 705 00	1 010 705	0.00/.010	0.7/0.7//		
replace athletic fields, exterior courts, & furnishings	1		1,810,785.00	1,810,785	2,096,210	2,769,764	1	1
upgrade baseball & softball synthetic turf	1	lpsm	3,270,000.00	3,270,000	3,785,434	5,001,769	2	l 1
upgrade ball fields (dugouts, bleachers, backstops, fencingf)	1	lpsm lpsm	1,250,000.00 92,000.00	1,250,000 92,000	1,447,031	1,911,991 1,0 723	2 2	2
upgrade site sign - digital	I	tpsm	Site Improven	•	106,502 7,435,176	140,723 9,824,247	<u> </u>	
			-	K SUBTOTAL:	9,649,134	12,749,594		
					2/0.2/10.	, .,,		
INSTRUCTIONAL TECHNOLOGY Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	83	each	1,250.00	103,750	120,104	147,307	2	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2	2
student desktops	101	each	800.00	80,800	93,536	114,722	1	1
mobile devices: 6-12	1,364	each	350.00	477,400	552,650	677,825	1	1
mobile device storing/charging (classroom)	73	each	400.00	29,200	33,803	41,459	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual			,	,	,	,		
classroom AV (display, sound, PA, doc camera)	73	each	9,000.00	657,000	760,560	932,826	1	1
science/art room/MC displays	5	each	5,000.00	25,000	28,941	35,496	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
stadium sound system	11_	lpsm	40,000.00	40,000	46,305	56,793	1	1
	INSTR	RUCTIO	NAL TECHNOLOG	SY SUBTOTAL:	1,726,193	2,117,175		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	34,000	39,359	48,274	1	2
	N	on-Inst	tructional Equipm	nent Subtotal:	54,987	67,442		
Furniture, Furnishings & Equipment (FFE)	1	1	10/ 00/ 00	10/ 00/	227 507	275 /52	2	
purchase furniture	1	lpsm	194,004.00	194,004	224,584	275,452	2	2
purchase band trailers	1 1	lpsm	117,647.00	117,647	136,191 115,763	179,952 152,050	2	2
purchase band equipment	I	lpsm	100,000.00	100,000 7,&E Subtotal :	115,763 476,537	152,959 608,363	2	2
				E SUBTOTAL:	531,525	675,805		
				OJECT TOTAL:	23,469,589	30,678,721		
Natas				Contingency:	2,346,959			
Notes:			Permits / Gener		878,548			
Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees			Design	C.M. Costs:	2,002,132 1,981,494			
maneet costs include, contingency, general conditions & professional fees				LDING TOTAL:	30,678,721			
			ВОП	-DINO TOTAL:	30,070,721			

Building Utilization

School Building Name

L'Anse Creuse High School

Project No. [n] 14

Current Grade Structure 9-12
Proposed Grade Structure 9-12

- 1. List the number of teaching stations 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	72	21.25	1,530
Subtotal	72		1,530
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
	•		

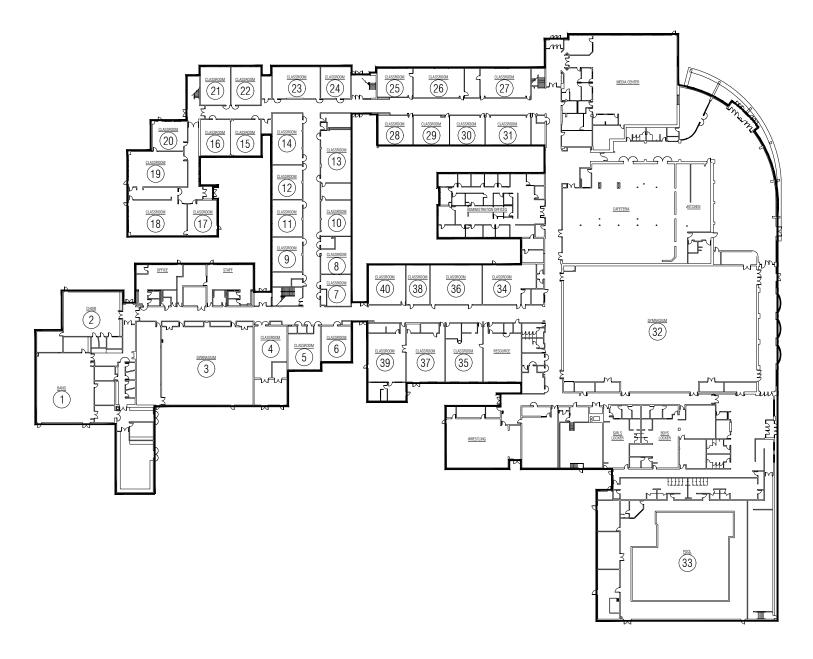
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment __1,305

Utilization Percentage 85%

(Projected 5-Year Enrollment / Total Capacity)

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

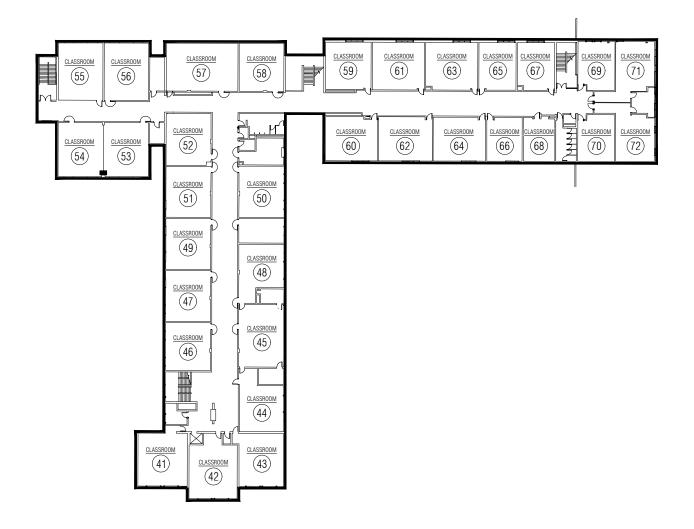




















High School North				Project No. [n]	15
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bld	g New stand-alone blo	New stand-alone blo	New stand-alone blo	dg
The associated Cost	New addition	New addition	New addition	New addition	
	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for each checked box.	Buses	Buses	Buses	Buses	for each.
	✓ Site work	✓ Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	_
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	g environmental or us	sability problems? (cl	heck all that apply)	
None noted	Asbestos abatement		ADA requirements		
Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	6,154,972	7,014,285	0	0	13,169,257
Construction Contingencies	1,516,195	1,049,288	0	0	2,565,483
Instructional Technology	1,678,302	332,817	0	0	2,011,119
Loose Furnishing/Equipment	0	532,914	0	0	532,914
Buses	0	0	0	0	0
Site Work	7,328,675	2,612,863	0	0	9,941,538
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	1,292,526	895,897	0	0	2,188,422
CM Fees and Costs	1,822,630	1,300,181	0	0	3,122,811
Estimated Costs	19,793,300	13,738,244	0	0	33,531,544

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

attachica actan relativ		are trae arra correct t	o the book of my throwledge and bollon	
4 Q.4 V)	6/17/2024	PARTNERS in Architecture, PLC #447	23
Signature		Date	Firm Name and License Nu	mber
Michael A. Malone,		mmalone@partners	sinarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS **BARTON MALOW BUILDERS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY** 2024 Bond Program 9-12 Grades: **High School North** Year Built: 1972 23700 21-Mile Road, Macomb, MI Building Size: 238,187 1.158 **Building Project Work List** Site Size: 41.12 Date: 6/6/24 Total Category Direct Subcategory Direct w/ w/Indirect Phase / Otv Unit **Unit Cost** Escalation Costs **Description** Cost **Priority** Series REMODELING WORK **Exterior Work** Roofing roof work - priority 1 (balance from summer 2023) 143.407 saft 25.00 3.585.175 4.150.288 5.483.859 1 1 10,200 sqft 2 roof work - priority 2 8.00 81,600 94,462 124,815 1 Envelope replace exterior masonry 1 lpsm 356030 356,030 412.149 544.581 1 2 81.000.00 upgrade select exterior glazing 81,000 93,768 123 897 1 lpsm 1 replace select exterior envelop materials 31,500.00 31,500 36,465 48,182 2 lpsm reroute roof overflow drainage 45,000.00 45,000 52,093 68,832 2 1 lpsm 1 replace EIFS with metal panel 4,050 sqft 70.00 283,500 328.187 433,640 1 2 5,500.00 132,000 152,807 201,906 replace select exterior doors - high priority 24 ea Exterior Work Subtotal: 5,320,219 7,029,711 Interior Work 50,000.00 50,000 57,881 replace interior openings 1 lpsm 76,480 2 2 replace drywall partitions & paint due to construction 90,000.00 90.000 104.186 137,663 2 2 1 lpsm 280,800 325,061 429,510 replace carpet (30 classrooms) 31,200 sf 9.00 1 2 replace architectural trim out/specialties 50,000.00 50,000 57,881 76,480 1 2 1 lpsm 200,000 231,525 305,919 renovate space for emerging programs 2,000 sqft 100.00 2 2 979,119 Interior Work Subtotal: 1,293,730 Mechanical Systems **Plumbing Work** replace water heater, pumps, select toilet room faucets & flush valves, 151,000.00 174,801 230,969 2 1 lpsm 151,000 water bottle fillers, and grease traps replace pool system equipment 1 lpsm 577,500.00 577,500 668,528 883,340 1 **HVAC System** replace boilers, chillers, roof top units, classroom units, pumps, valves, & 1,810,576.97 1,810,577 2,095,969 2,769,446 1 2 1 lpsm piping replace pool and locker room mechanical equipment 308,750.00 308,750 357,417 472,262 2 1 lpsm replace mdf/idf air conditioning 9 15,000.00 135,000 156,279 206,495 1 2 ea **Integrated Automation** upgrade temperature controls 238,187 sqft 6.00 1,429,122 1,654,387 2,185,975 2 Mechanical Systems Subtotal: 5,107,382 6,748,487 **Electrical Systems** Power 79 ea 1,500.00 118,500 137,179 181,257 1 electrical to support technology 1 Lighting upgrade building exterior lighting 51 ea 850.00 50,183 66,308 2 43,350 247,565 **Electrical Systems Subtotal:** 187,362 11,594,082 **Construction Subtotal:** 15,319,492 **Technology Infrastructure** data cabling for renovations 1 ea 10,000.00 10,000 11,576 14,198 2 2 demo coax/legacy cables 10,000.00 10,000 11,576 14,198 1 1 lpsm 238,187 sf 179,225 219,820 replace cabling infrastructure 0.65 154,822 1 1 28.000 32.414 39.755 replace fiber to IDEs 8 ea 3 500 00 1 1 ea replace network switches - core/aggregate 9,000.00 9,000 10,419 12,778 replace network switches - edge 49 4,000.00 196,000 226,895 278,286 1 ea 1 20,000 network switches - multigig 2 ea 10,000.00 23,153 28,397 1 1 replace rack UPS 9 1,200.00 10,800 12,502 15,334 1 ea 1 update wireless infrastructure 1,200.00 133,200 154,196 189,121 1 2 111 ea 50,000.00 50,000 57,881 70,991 upgrade phone system 882,879 Technology Infrastructure Subtotal: 719,836 **Technology Safety & Security** 175 ea 1,500.00 262,500 303,877 372,705 upgrade security camera system 238,187 sf 0.75 178,640 206,798 253,638 2 install emergency alert system 1

238,187 sf

297,734

344,664

855.339

1.575.175

13,169,257

1.25

REMODELING SUBTOTAL:

Technology Safety & Security Subtotal:

Technology & Safety Infrastructure Subtotal:

422,730

1.049.073

1,931,952

17,251,445

1

2

(830,000.00) 346750

replace PA systems

SITE WORK

L'ANSE CREUSE PUBLIC SCHOOLS	RELIMINARY - FOR DISCUSS	ION P	URPOSE ONLY			BARTOI	N MALOW I	BUILDERS
2024 Bond Program	Gr	ades:	9-12					
High School North	Year	Built:	1972					
23700 21-Mile Road, Macomb, MI	Building							
Building Project Work List	Site	Size:	41.12		1.158		Date	: 6/6/24
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
Site Paving								
repave east lots, north and east drives, and replace side	ewalks 1	lspm	2,165,089.00	2,165,089	2,506,361	3,311,705	1	2
repare cust tots, north and cust arrives, and replace side	. Wutho	сэрііі		ring Subtotal:	2,506,361	3,311,705	· ·	
Site Improvements			0.101.01	mg oubtotut	2/000/00	5,511,755		
replace football field synthetic turf, tracks, and tennis o	courts 1	lpsm	1,810,785.00	1,810,785	2,096,210	2,769,764	1	1
upgrade baseball & softball synthetic turf	1	lpsm	3,270,000.00	3,270,000	3,785,434	5,001,769	2	1
upgrade ball fields (dugouts, bleachers, backstops, fer	ncing) 1	lpsm	1,250,000.00	1,250,000	1,447,031	1,911,991	2	1
upgrade site sign - digital	1	lpsm	92,000.00	92,000	106,502	140,723	2	2
			Site Improvem	ent Subtotal:	7,435,176	9,824,247		
			SITE WOR	K SUBTOTAL:	9,941,538	13,135,953		
INSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	86	each	1,250.00	107,500	124,445	152,631	2	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2	2
student desktops	133	each	800.00	106,400	123,171	151,070	1	1
mobile devices: 6-12	1,703	each	350.00	595,980	689,921	846,189	1	1
mobile device storing/charging (classroom)	76	each	400.00	30,400	35,192	43,163	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	76	each	9,000.00	684,000	791,816	971,162	1	1
science/art room/MC displays	5	each	5,000.00	25,000	28,941	35,496	1	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	1	000	5,000.00	5,000	5,788	7,099	1	1
stadium sound system	1		40,000.00	40,000	46,305	56,793	2	2
lgi audiovisual	2 INCT		35,000.00	70,000	81,034	99,388	2	2
	III	KUCIIU	NAL TECHNOLOG	Y SUBTUTAL:	2,011,119	2,466,637		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1		3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1		10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	35,200	40,748	49,978	1	2
Functions Funcialisms 9 Facilities / IFF	N	ion-Ins	tructional Equipm	ent Subtotal:	56,376	69,146		
Furniture, Furnishings & Equipment (FFE) purchase furniture	1	lpsm	194,004.50	194,005	224,584	275,453	2	2
purchase furniture purchase band trailers	1		174,004.50	194,005	136,191	275,453 179,952	2	2
purchase band traiters purchase band equipment	•	lpsm	100,000.00	100,000	115,763	152,959	2	2
parenase bana equipment		ιμοιιι		,&E Subtotal:	476,538	608,364		
				E SUBTOTAL:	532,914	677,510		
				DJECT TOTAL:	25,654,828	33,531,544		
Market				Contingency:	2,565,483			
Notes:	the design phase		Permits / General		958,653			
Scope of work is conceptual and will be detailed throughout Indirect Costs include; contingency, general conditions & pr			Design	Consultants: C.M. Costs:	2,188,422 2,164,158			
mairect costs include, contingency, general conditions & pr	oressional rees			.DING TOTAL:	33,531,544			
			— BUIL	DING TOTAL:	33,331,344			

Building Utilization

School Building Name

High School North

Project No. [n] 15

Current Grade Structure 9-12
Proposed Grade Structure 9-12

- 1. List the number of teaching stations 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	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	82	21.25	1,743
Subtotal	82		1,743
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	Teaching		Capacity 0
•	Teaching Stations	Factor	
(K-2) Lower Elementary	Teaching Stations	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Teaching Stations 0	20 25	0
(K-2) Lower Elementary (3-5) Upper Elementary (6-8) Junior High	Teaching Stations 0 0 0	20 25 22.5	0 0 0

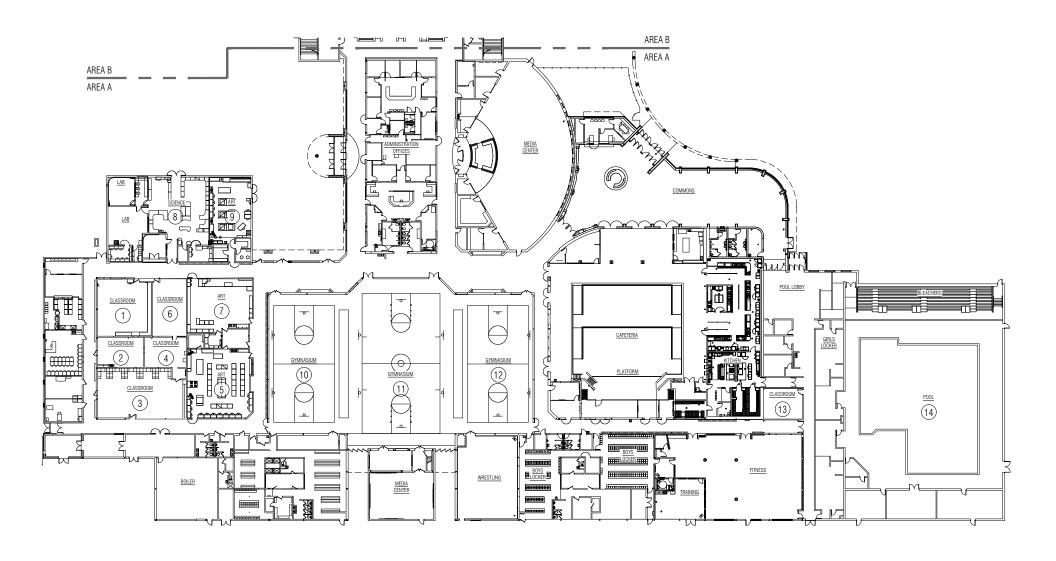
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 1,400

Utilization Percentage 80%

(Projected 5-Year Enrollment / Total Capacity)

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



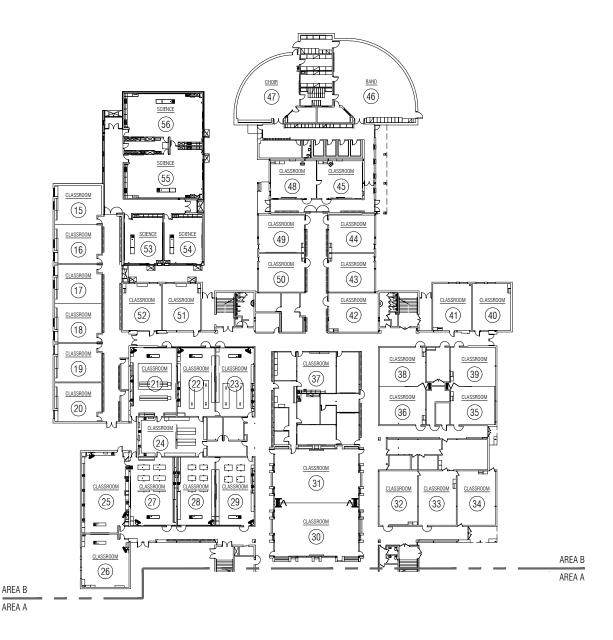










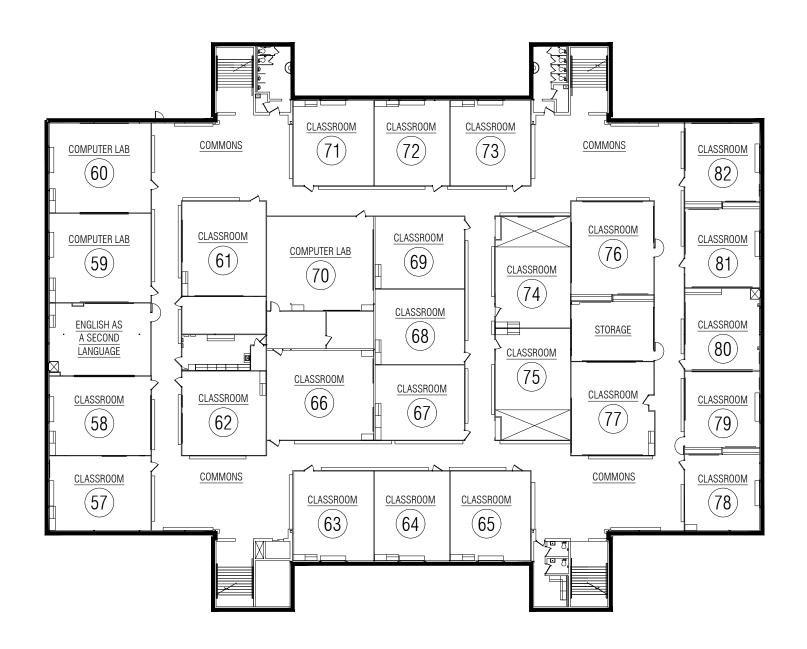






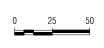














urdi Early Childhood Center				
Series 1	Series 2	n/a	n/a	
New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
New addition	New addition	New addition	New addition	<u> </u>
✓ Remodeling	Remodeling	Remodeling	Remodeling	For multiple proposals,
Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a
Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
Buses	Buses	Buses	Buses	for each.
Site work	✓ Site work	Site work	Site work	
Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Square Foot				
onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
address any existing	g environmental or us	sability problems? (c	heck all that apply)	
Asbestos abatement		ADA requirements		
1.	2.	3.		-
	Series 1 New stand-alone bldg New addition Remodeling Instructional tech. Furnishings/Equip. Buses Site work Building shutdown (demo/closure) Site acquisition Square Foot construction Square Ft w Addition Square Ft. address any existing Asbestos abatement	Series 1 Series 2 New stand-alone bldg New stand-alone bldg New addition Remodeling Instructional tech. Furnishings/Equip. Buses Site work Building shutdown (demo/closure) Site acquisition Square Foot onstruction Square Ft. Asbestos abatement Series 2 New stand-alone bldg New stand-alone New addition Standard New Addition New addition New addition Standard New Addition Standard New Addition New addition Standard New Addition New a	Series 1 Series 2 New stand-alone bldg New stand-alone bldg New addition New addition New addition Remodeling Instructional tech. Instructional tech. Furnishings/Equip. Buses Buses Buses Buses Site work Building shutdown (demo/closure) Site acquisition Site acquisition Square Foot onstruction Square Ft. Address any existing environmental or usability problems? (Calcalate ADA requirements)	Series 1 Series 2 n/a New stand-alone bldg New stand-alone bldg New stand-alone bldg New stand-alone bldg New addition

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	440,842	409,525	0	0	850,368
Construction Contingencies	60,222	56,609	0	0	116,831
Instructional Technology	161,373	30,388	0	0	191,761
Loose Furnishing/Equipment	0	65,985	0	0	65,985
Buses	0	0	0	0	0
Site Work	0	60,197	0	0	60,197
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	50,691	48,020	0	0	98,711
CM Fees and Costs	54,467	61,434	0	0	115,901
Estimated Costs	767,595	732,157	0	0	1,499,753

I certify that	I have assessed	the conditions	relative to	this facility	and the	details o	f the p	roposed	project(s)	described	above a	and the
attached de	tail relative to the	e construction p	roject(s) ar	re true and	correct t	to the bes	st of m	y knowle	dge and b	elief.		

m 9.4		6/17/2024 PAR	TNERS in Architecture, PLC #44723
Signature	Date		Firm Name and License Number
Michael A. Malone, A	IA mma	alone@partnersinarch	h.com 586-469-3600
Printed Name	E-mail	Address	Phone Number

'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR	DISCUSSION F	PURPOSE ONLY			BARTO	N MALOW I	BUILDER
2024 Bond Program		Grades:	preK					
Burdi Early Childhood Center		Year Built:	1995					
29851 24-Mile Road, Chesterfield, MI		Building Size:	17,102					
Building Project Work List			inc w/ Higgins		1.158		Date	: 6/6/24
		Site Size.	me w/ mggms				Dute	. 0/0/24
ategory Subcategory				Direct	Direct w/	Total w/Indirect		Phase /
Description		Qty Unit	: Unit Cost	Cost	Escalation	Costs	Priority	Series
EMODELING WORK Exterior Work								
Roofing								
roof work - priority 1		1 lpsm	7,000.00	7,000	8,103	10,707	1	1
Envelope								
upgrade select exterior glazing		1 lpsm	•	22,000	25,468	33,651	1	1
replace select exterior envelop materials reroute roof overflow drainage		1 lpsm 1 lpsm	•	25,000 41,000	28,941 47,463	38,240 62,713	1	2
replace select exterior doors - high priority		1 lpsm 18 lpsm	· ·	99,000	114,605	151,430	1	1
replace select exterior doors might priority		10 (þ3111		ork Subtotal:	224,579	296,741	<u>'</u>	<u> </u>
Interior Work								
replace casework (countertops and hardware)		1 lpsm	•	80,000	92,610	122,367	1	1
replace interior openings replace drywall partitions & paint due to construction		1 allo	5,000.00 20,000.00	5,000 20,000	5,788	7,648 30,592	2	2 2
repeace drywatt partitions & paint due to construction renovate toilet room & locker room	1	1 lpsm 1 lpsm	•	20,000 50,954	23,153 58,985	30,392 77,938	1	2
replace carpet (classrooms)		7,800 lpsm	•	70,200	81,265	107,377	1	2
replace VCT flooring (classrooms and workrooms)		3,000 sqft	8.00	24,000	27,783	36,710	2	2
replace architectural trim out/specialties		, 1 lpsm	10,000.00	10,000	11,576	15,296	1	1
			Interior W	ork Subtotal:	301,160	397,929		
Mechanical Systems								
HVAC System replace mdf/idf air conditioning		1 ea	15,000.00	15,000	17,364	22,944	1	2
Integrated Automation		ı ca	13,000.00	15,000	17,504	22,744		2
upgrade temperature controls		17,102 sqft	3.00	51,306	59,393	78,477	1	2
			Mechanical Syste	ems Subtotal:	76,757	101,421		
Electrical Systems								
Power electrical to support technology		14 ea	1,500.00	21,000	24,310	32,121	1	1
Lighting		14 ea	1,300.00	21,000	24,310	32,121	1	'
upgrade building exterior lighting		18 ea	850.00	15,300	17,712	23,403	1	2
			Electrical Syste		42,022	55,524		
Technology Infrastructure			Construct	tion Subtotal:	644,519	851,615		
data cabling for renovations		1 ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables		1 lpsm	· ·	10,000	11,576	14,198	1	1
replace cabling infrastructure		17,102 sf	0.65	11,116	12,869	15,783	1	1
replace network switches - core/aggregate		1 ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge		5 ea	4,000.00	20,000	23,153	28,397	1	1
replace rack UPS		1 ea	1,200.00	1,200	1,389	1,704	1	1
update wireless infrastructure		14 ea	1,200.00	16,800	19,448	23,853	1	2
upgrade phone system		1 lpsm	25,000.00 nnology Infrastruct	25,000	28,941 119,370	35,496 146,407	1	1
Technology Safety & Security		Tech	illotogy illirastruct	lure Subtotat.	117,370	140,407		
upgrade security camera system		20 ea	1,500.00	30,000	34,729	42,595	1	1
replace entrance intercoms		3 ea	3,500.00	10,500	12,155	14,908	1	1
install emergency alert system		17,102 sf	0.75	12,827	14,848	18,211	1	2
replace PA systems		17,102 sf	1.25	21,378	24,747	30,352	1	2
•			logy Safety & Secu	-	86,479	106,067		
	0.00	rechnology &	Safety Infrastruct	G SUBTOTAL:	205,849 850,368	252,474 1,104,090		
	0.00 346750				-,	,		
TE WORK			NEI 102 EIN					
TE WORK Site Improvements			KENOZEM					
ITE WORK Site Improvements upgrade site sign - digital		1 lpsm		52,000	60,197	79,539	2	2
Site Improvements		1 lpsm			60,197 60,197	79,539 79,539	2	2
Site Improvements		1 lpsm	52,000.00 Site Improvem			•	2	2
Site Improvements upgrade site sign - digital		1 lpsm	52,000.00 Site Improvem	ent Subtotal:	60,197	79,539	2	2
upgrade site sign - digital STRUCTIONAL TECHNOLOGY Computers and Mobile Devices			52,000.00 Site Improvem SITE WOR	nent Subtotal: K SUBTOTAL:	60,197 60,197	79,539 79,539		
Site Improvements upgrade site sign - digital ISTRUCTIONAL TECHNOLOGY		1 lpsm 13 each 10 each	52,000.00 Site Improvem SITE WOR	ent Subtotal:	60,197	79,539	2 2 2	2 2 2

L'ANSE CREUSE PUBLIC SCHOOLS PR	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY					BARTO	N MALOW I	BUILDERS
2024 Bond Program	Gra	ades:	preK					
Burdi Early Childhood Center	Year	Built:	1995					
29851 24-Mile Road, Chesterfield, MI	Building	Size:	17,102					
Building Project Work List	Site Size: inc w/ Higgins		1.158		Date: 6/6/24			
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
mobile device storing/charging (classroom)	11	each	400.00	4,400	5,094	6,247	1	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual								
classroom AV (display, sound, PA, doc camera)	11	each	9,000.00	99,000	114,605	140,563	1	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1
	INSTR	UCTIO	NAL TECHNOLOG	Y SUBTOTAL:	191,761	235,194		
FURNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment								
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2
purchase radio / walkie-talkies		each	400.00	6,000	6,946	8,519	1	2
	N	on-Ins	tructional Equipm	ent Subtotal:	22,574	27,687		
Furniture, Furnishings & Equipment (FFE)	1	I	27 500 00	27 500	/2 /11	53.244	2	2
purchase furniture	<u></u>	lpsm	37,500.00	37,500 &E Subtotal:	43,411 43,411	53,244	2	2
				E SUBTOTAL:	65,985	80,930		
			P <u>RO</u>	JECT TOTAL:	1,168,310	1,499,753		
			Construction	Contingency:	116,831			
Notes:			Permits / Genera	al Conditions:	31,007			
Scope of work is conceptual and will be detailed throughout th	ne design phase		Design	Consultants:	98,711			
Indirect Costs include; contingency, general conditions & prof	essional fees			C.M. Costs:	84,894			
			BUIL	DING TOTAL:	1,499,753			

Pankow Career Tech Cent	Pankow Career Tech Center & Armstrong Performing Arts Center					
Proposal #:	Series 1	Series 2	n/a	n/a		
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	g	
	New addition	New addition	New addition	New addition		
	Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,	
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a	
	Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page	
	Buses	Buses	Buses	Buses	for each.	
	✓ Site work	✓ Site work	Site work	Site work		
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)		
	Site acquisition	Site acquisition	Site acquisition	Site acquisition		
Construction Cost Per	•					
	onstruction Square Ft	n/a	Cost per Sq Ft	n/a		
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a		
Does this proposed project	address any existing	g environmental or us	sability problems? (<i>cl</i>	heck all that apply)		
☐ None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements			
Other - please list:	1.	2.	3.			

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	944,424	4,608,609	0	0	5,553,034
Construction Contingencies	456,468	510,540	0	0	967,008
Instructional Technology	535,876	308,218	0	0	844,094
Loose Furnishing/Equipment	0	183,947	0	0	183,947
Buses	0	0	0	0	0
Site Work	3,084,376	4,631	0	0	3,089,007
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	388,054	435,011	0	0	823,066
CM Fees and Costs	518,900	607,792	0	0	1,126,692
Estimated Costs	5,928,099	6,658,748	0	0	12,586,846

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

4m 9.4m		6/17/2024	PARTNERS in Architecture, PLC #4472	23
Signature		Date	Firm Name and License Nur	mber
Michael A. Malone,	AIA	mmalone@partners	inarch.com	586-469-3600 Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - F	OR DISCUSS	ION PL	IRPOSE ONLY			BARTOI	N MALOW E	BUILDER
2024 Bond Program	Gr	ades:	9-12					
ankow / Performing Arts Center	Year	Built:	1974					
24600 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size:	140.891					
Building Project Work List		Size:			1.158		Date	: 6/6/24
building Floject Work List	5110	JIZE.	+2.57				Date	. 0/0/24
tegory				Discort	Direct	Total		Dhara
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Priority	Phase A Series
Description	acy	Onic	Onit Cost	CUST	LSCALACION	CUSIS	Filolity	361163
MODELING WORK								
Exterior Work Roofing								
roof work - priority 1	33,500	saft	25.47	853,245	987,738	1,305,118	1	2
roof work - priority 2	11,100		30.37	337,107	390,243	515,637	2	2
Envelope	•			·	·	·		
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	1	2
replace select exterior envelop materials		lpsm	15,000.00	15,000	17,364	22,944	2	2
replace EIFS with metal panels replace select exterior doors - high priority	2,960	sqft ea	70.00 5,500.00	207,200 66.000	239,860 76,403	316,932 100,953	1 1	2 2
replace select exterior doors - nigh priority	12	ea		ork Subtotal:	1,737,077	2,295,234	ı.	
Interior Work			Exterior W	ork Subtotut.	1,707,077	2,2,0,204		
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	2	2
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	38,240	1	1
improve arts program (dance studio floor)	1	lpsm	25,000.00	25,000	28,941	38,240	2	2
Machanias I Contanta			Interior W	ork Subtotal:	115,763	152,959		
Mechanical Systems Plumbing Work								
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	119,500.00	119,500	138,336	182,786	1	2
HVAC System			,	,	,	/		
replace select RTUs, chillers, classroom units, refurbish mezz. AHU units	1	lpsm	654,410.00	654,410	757,561	1,000,981	2	2
Integrated Automation								
upgrade temperature control system	140,891		6.00	845,346	978,594	1,293,035	1	2
Flactuical Customa			Mechanical Syste	ems Subtotal:	1,874,491	2,476,803		
Electrical Systems Power								
upgrade electrical systems - Priority 1	24,950	sqft	7.00	174,650	202,179	267,143	1	1
emergency generator for JAPAC		lpsm	75,000.00	75,000	86,822	114,719	1	1
electrical to support technology	42	ea	1,500.00	63,000	72,930	96,364	1	1
Lighting								
upgrade building exterior lighting		ea	850.00	52,700	61,007	80,610	2	2
upgrade theater lighting Electronic Safety & Security	ı	lpsm	350,000.00	350,000	405,169	535,358	2	2
upgrade fire alarm panel	1	lpsm	15,000.00	15,000	17,364	22,944	1	2
applicate the dialin paner	<u> </u>	трэнн	Electrical Syste	•	845,471	1,117,138	<u>'</u>	
			-	tion Subtotal:	4,572,802	6,042,134		
Technology Infrastructure								
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables		lpsm - f	10,000.00	10,000	11,576	14,198	1	1
replace cabling infrastructure replace fiber to IDFs	140,891 7	st ea	0.65 3,500.00	91,579 24,500	106,014 28,362	130,027 34,786	1 1	l 1
replace liber to IDFs replace network switches - core/aggregate	1	ea ea	9,000.00	9,000	20,302 10,419	34,766 12,778	1	1
replace network switches - edge	•	ea	4,000.00	156,000	180,590	221,493	1	1
		ea	10,000.00	10,000	11,576	14,198	1	1
network switches - multigig		ea	1,200.00	9,600	11,113	13,630	1	1
network switches - multigig replace rack UPS	8	ea		7/000	88,906	100 0/2	1	2
replace rack UPS update wireless infrastructure	8 64	ea	1,200.00	76,800		109,043		1
replace rack UPS	8	ea lpsm	25,000.00	25,000	28,941	35,496	1	
replace rack UPS update wireless infrastructure upgrade phone system	8 64	ea lpsm	· ·	25,000			1	· ·
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security	8 64 1	ea lpsm Techn	25,000.00 ology Infrastruct	25,000 ture Subtotal:	28,941 489,072	35,496 599,847	1	1
replace rack UPS update wireless infrastructure upgrade phone system	8 64 1	ea lpsm Techn ea	25,000.00	25,000	28,941	35,496	·	· ·
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system	8 64 1 95	ea lpsm Techn ea sf	25,000.00 ology Infrastruct 1,500.00	25,000 ture Subtotal: 142,500	28,941 489,072 164,962	35,496 599,847 202,325	1	1
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system	95 140,891 140,891	ea lpsm Techn ea sf sf echnolo	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu	25,000 ture Subtotal: 142,500 105,668 176,114 rity Subtotal:	28,941 489,072 164,962 122,324 203,874 491,159	35,496 599,847 202,325 150,031 250,051 602,407	1 1	1 2
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system	95 140,891 140,891	ea lpsm Techn ea sf sf echnolo	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu	25,000 ture Subtotal: 142,500 105,668 176,114 rity Subtotal: ture Subtotal:	28,941 489,072 164,962 122,324 203,874 491,159 980,232	35,496 599,847 202,325 150,031 250,051 602,407 1,202,254	1 1	1 2
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system	95 140,891 140,891	ea lpsm Techn ea sf sf echnolo	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu	25,000 ture Subtotal: 142,500 105,668 176,114 rity Subtotal:	28,941 489,072 164,962 122,324 203,874 491,159	35,496 599,847 202,325 150,031 250,051 602,407	1 1	1 2
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system	95 140,891 140,891	ea lpsm Techn ea sf sf echnolo	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu	25,000 ture Subtotal: 142,500 105,668 176,114 rity Subtotal: ture Subtotal:	28,941 489,072 164,962 122,324 203,874 491,159 980,232	35,496 599,847 202,325 150,031 250,051 602,407 1,202,254	1 1	1 2
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system replace PA systems	8 64 1 95 140,891 140,891 T. Techno	ea lpsm Techn ea sf sf echnolo logy & S	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu Safety Infrastruct REMODELING	25,000 ture Subtotal: 142,500 105,668 176,114 trity Subtotal: ture Subtotal: G SUBTOTAL:	28,941 489,072 164,962 122,324 203,874 491,159 980,232 5,553,034	35,496 599,847 202,325 150,031 250,051 602,407 1,202,254 7,244,389	1 1 1	1 2
replace rack UPS update wireless infrastructure upgrade phone system Technology Safety & Security upgrade security camera system install emergency alert system replace PA systems	95 140,891 140,891	ea lpsm Techn ea sf sf echnolology & S	25,000.00 ology Infrastruct 1,500.00 0.75 1.25 gy Safety & Secu	25,000 ture Subtotal: 142,500 105,668 176,114 rity Subtotal: ture Subtotal:	28,941 489,072 164,962 122,324 203,874 491,159 980,232	35,496 599,847 202,325 150,031 250,051 602,407 1,202,254	1 1	1 2

Site Improvements

L'ANSE CREUSE PUBLIC SCHOOLS	OOLS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY							BARTON MALOW BUILDERS		
2024 Bond Program	Grades: 9-12									
Pankow / Performing Arts Center	Year i	Built: 1	1974							
24600 F.V.Pankow Blvd, Clinton Twp, MI										
Building Project Work List					1.158		Data	: 6/6/24		
Building Project Work List	Site Size: 42.57					Date	. 0/0/24			
Category					Direct	Total		<u> </u>		
Subcategory	a.			Direct	w/	w/ Indirect	B : ::	Phase /		
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series		
replace playground paved surfaces	400	sqft	10.00	4,000	4,631	6,118	1	2		
			Site Improvem	ent Subtotal:	4,631	6,118				
			SITE WOR	K SUBTOTAL:	3,089,007	4,081,566				
NSTRUCTIONAL TECHNOLOGY										
Computers and Mobile Devices										
teacher computers (desktop + 1:1 device)	49	each	1,250.00	61,250	70,905	86,964	2	2		
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2	2		
student desktops	69	each	800.00	55,200	63,901	78,374	1	1		
mobile devices: 6-12	95	each	350.00	33,110	38,329	47,010	1	1		
mobile device storing/charging (classroom)	39	each	400.00	15,600	18,059	22,149	1	1		
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	1		
Audiovisual										
classroom AV (display, sound, PA, doc camera)	39	each	9,000.00	351,000	406,326	498,359	1	1		
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2		
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	1		
auditorium audiovisual	1	lpsm	150,000.00	150,000	173,644	212,974	2	2		
	INSTR	UCTION	NAL TECHNOLOG	Y SUBTOTAL:	844,094	1,035,281				
URNITURE, FURNISHINGS AND EQUIPMENT										
Non-Instructional Equipment										
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	2		
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	2		
purchase radio / walkie-talkies		each	400.00	20,400	23,616	28,964	1	2		
	No	on-Instr	ructional Equipm	ent Subtotal:	39,243	48,132				
Furniture, Furnishings & Equipment (FFE)		l	125 000 00	125 000	1// 702	177 /70	2	2		
purchase furniture		lpsm	125,000.00	125,000	144,703	177,478	2			
				,&E Subtotal: E SUBTOTAL:	144,703 183,947	177,478 225,611				
				JECT TOTAL:	9,670,081	12,586,846				
lotes:			Construction		967,008					
	the design phase		Permits / Genera		337,120					
Scope of work is conceptual and will be detailed throughout			Design	Consultants:	823,066					
Indirect Costs include; contingency, general conditions & pro			— Design	C.M. Costs:	789,573					

BUILDING TOTAL: 12,586,846

Pellerin Center (Riverside	Project No. [n]	18				
Proposal #:	Series 1	Series 1 Series 2 n/a n/a				
The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g	
	New addition	New addition	New addition	New addition		
	✓ Remodeling	Remodeling	Remodeling	Remodeling	For multiple proposals,	
	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a	
	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page	
	Buses	Buses	Buses	Buses	for each.	
	Site work	✓ Site work	Site work	Site work		
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)		
	Site acquisition	Site acquisition	Site acquisition	Site acquisition		
Construction Cost Per	r Square Foot					
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a		
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a		
Does this proposed project	t address any existing	g environmental or us	sability problems? (<i>cl</i>	heck all that apply)		
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements			
Other - please list:	1.	2.	3.		-	

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	134,169	617,940	0	0	752,109
Construction Contingencies	56,017	137,642	0	0	193,659
Instructional Technology	396,487	104,186	0	0	500,673
Loose Furnishing/Equipment	29,519	28,941	0	0	58,460
Buses	0	0	0	0	0
Site Work	0	625,349	0	0	625,349
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	46,335	116,810	0	0	163,145
CM Fees and Costs	27,985	150,860	0	0	178,845
Estimated Costs	690,512	1,781,728	0	0	2,472,240

I certify that	I have assessed	d the conditions	relative to thi	s facility a	nd the de	etails of t	he proposed	project(s)	described a	above a	and the
attached de	tail relative to the	e construction p	roject(s) are	true and c	orrect to	the best	of my knowle	edge and b	elief.		

4 Q.4 V)	6/17/2024	PARTNERS in Architecture, PLC #4472	23		
Signature		Date	Firm Name and License Number			
Michael A. Malone	AIA	mmalone@partners	inarch.com	586-469-3600		
Printed Name		E-mail Address		Phone Number		

'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUS	SSION PL	JRPOSE ONLY			BARTO	N MALOW I	BUILDE
2024 Bond Program		Grades:	9-12					
ellerin Center	Yea	ar Built: 2	2009					
24001 F.V.Pankow Blvd, Clinton Twp, MI		ng Size:						
		Ĭ						
Building Project Work List	Si	te Size: (3.15		1.158		Date	: 6/6/24
ategory					Direct	Total		
Subcategory				Direct	w/	w/ Indirect		Phas
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Seri
MODELING WORK								
Exterior Work								
Envelope								_
upgrade select exterior glazing		1 lpsm	22,000.00	22,000 ork Subtotal:	25,468 25,468	33,651 33,651	1	2
Interior Work			Exterior vv	DIK SUDIVIAL.	25,400	33,031		
replace architectural trim out/specialties		1 lpsm	15,000.00	15,000	17,364	22,944	1	2
<u> </u>		'	•	ork Subtotal:	17,364	22,944		
Mechanical Systems								
Plumbing Work								
replace water heater & water bottle filling stations		1 lpsm	20,000.00	20,000	23,153	30,592	1	2
HVAC System replace mdf/idf air conditioning		2 ea	15,000.00	30,000	34,729	45,888	1	2
Integrated Automation		_ ca	13,000.00	30,000	J4,127	43,000	1	2
upgrade temperature control system	34,97	0 sqft	6.00	209,800	242,870	320,909	1	2
	<u> </u>		Mechanical Syste	•	300,751	397,388		
Electrical Systems								
Power	^	1	1 500 00	01 500	24.445	(0.100	1	_
electrical to support technology Lighting	2	1 ea	1,500.00	31,500	36,465	48,182	1	1
upgrade building exterior lighting	1	8 ea	850.00	15,300	17,712	23,403	1	2
applied building exterior lighting	'	o ca	Electrical Syste		54,177	71,585		
			-	ion Subtotal:	397,760	525,568		
Technology Infrastructure								
data cabling for renovations		1 ea	10,000.00	10,000	11,576	14,198	2	2
demo coax/legacy cables		1 lpsm	10,000.00	10,000	11,576	14,198	1	2
replace fiber to IDFs		1 ea	3,500.00	3,500	4,052	4,969	1	2
replace network switches - core/aggregate	_	1 ea	9,000.00	9,000	10,419	12,//8	1	1
replace network switches - edge		2 ea	4,000.00	48,000	55,566	68,152	1	1
replace rack UPS		2 ea	1,200.00	2,400	2,778	3,408	1	1
update wireless infrastructure	2	7 ea	1,200.00	32,400	37,507	46,002	1	2
upgrade phone system		1 lpsm	25,000.00	25,000	28,941	35,496	1	1
Tachaslasu Cafatu 9 Casusitu		Techn	ology Infrastruct	ure Subtotal:	162,415	199,202		
Technology Safety & Security upgrade security camera system		0 ea	1,500.00	90,000	104,186	127,784	1	2
install emergency alert system	37,89		0.75	28,400	32,877	40,323	1	2
replace PA systems	37,89		1.25	47,400	54,871	67,300	1	2
reptace i A systems			ogy Safety & Secu		191,934	235,407		
			Safety Infrastruct	-	354,349	434,609		
	reem	lotogy & c	REMODELING		752,109	960,177		
TE WORK								
Site Paving								
replace parking lot, replace sidewalks	73,00	0 sqft	7.40	540,200	625,349	826,286	1	2
			Site Pav	ing Subtotal:	625,349	826,286		
			SITE WOR	K SUBTOTAL:	625,349	826,286		
STRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)		8 each	1,250.00	35,000	40,517	49,694	2	2
admin staff computers		0 each	1,000.00	20,000	23,153	28,397	2	2
student desktops		9 each	800.00	55,200	63,901	78,374	1	1
mobile devices: 6-12	31	5 each	350.00	110,100	127,455	156,323	1	1
mobile device storing/charging (classroom)	1	8 each	400.00	7,200	8,335	10,223	1	1
mobile device storing/charging (carts)		2 each	1,500.00	3,000	3,473	4,259	1	1
Audiovisual		<u> </u>	0.000.00	4/0.000	107.55	000 015		
classroom AV (display, sound, PA, doc camera) av for collaboration spaces	1	8 each	9,000.00	162,000	187,535 40,517	230,012	1	1
av ior con appration chacee		1 lpsm	35,000.00	35,000	40,517	49,694 7,099	2 1	2
•		1 ~~~~	F 000 00					
conference room / IEP	INC	1 each	5,000.00 NAL TECHNOLOGY	5,000 V SUBTOTAL:	5,788 500,673	614,075		

L'ANSE CREUSE PUBLIC SCHOOLS PR	ELIMINARY - FOR DISCUSSI	ON PL	IRPOSE ONLY		BARTON MALOW B				
2024 Bond Program	Gra	des:	9-12						
Pellerin Center	Year E	Built: 2	2009						
24001 F.V.Pankow Blvd, Clinton Twp, MI	Building S	Size: 3	37,897						
Building Project Work List	Site Size: 3.15				1.158		Date: 6/6/24		
Category Subcategory	.			Direct	Direct w/	Total w/ Indirect	D	Phase /	
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series	
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	1	
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	1	
purchase radio / walkie-talkies	30	each	400.00	12,000	13,892	17,038	1	1	
Furniture Furnishings & Fauismont (FFF)	No	n-Inst	ructional Equipm	ent Subtotal:	29,519	36,206			
Furniture, Furnishings & Equipment (FFE) purchase furniture	1	lpsm	25,000.00	25,000	28,941	35,496	2	2	
,			F,F,	&E Subtotal:	28,941	35,496			
			F, F, & I	E SUBTOTAL:	58,460	71,701			
			PRO	JECT TOTAL:	1,936,591	2,472,240			
			Construction		193,659				
Notes:			Permits / Genera	l Conditions:	45,017				
Scope of work is conceptual and will be detailed throughout th			Design	Consultants:	163,145				
Indirect Costs include; contingency, general conditions & prof	essional fees			C.M. Costs:	133,828				
			BUIL	DING TOTAL:	2,472,240				

Wheeler Community Center		Project No. [n]	19						
Proposal #:	Series 1	Series 2	n/a	n/a					
The associated Cost	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	g				
	New addition	New addition	New addition	New addition					
	✓ Remodeling	✓ Remodeling	Remodeling	Remodeling	For multiple proposals,				
Detail page must include	✓ Instructional tech.	✓ Instructional tech.	Instructional tech.	Instructional tech.	include a				
a clear, concise, and detailed explanation and breakdown of costs for each checked box.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page				
	Buses	Buses	Buses	Buses	for each.				
	Site work	✓ Site work	Site work	Site work					
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)					
	Site acquisition	Site acquisition	Site acquisition	Site acquisition					
Construction Cost Per	Square Foot								
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a					
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a					
Does this proposed project address any existing environmental or usability problems? (check all that apply)									
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements						
Other - please list:	1.	2.	3.						

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	123,171	706,626	0	0	829,797
Construction Contingencies	20,571	119,109	0	0	139,680
Instructional Technology	70,152	377,965	0	0	448,117
Loose Furnishing/Equipment	12,387	0	0	0	12,387
Buses	0	0	0	0	0
Site Work	0	106,502	0	0	106,502
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	16,971	99,894	0	0	116,865
CM Fees and Costs	9,051	97,575	0	0	106,627
Estimated Costs	252,303	1,507,670	0	0	1,759,974

I certify that	I have assessed	d the conditions	relative to	this facility	and the	details of	f the pr	roposed	project(s)	described	above a	and the
attached det	tail relative to the	e construction p	roject(s) a	re true and	correct t	to the bes	st of my	y knowle	dge and b	elief.		

4m 9.4m		6/17/2024	PARTNERS in Architecture, PLC #447	23
Signature		Date	Firm Name and License Nu	mber
Michael A. Malone	, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY	I OK DISCOSSI	ION FU	KPUSE UNLI			BARTUI	N MALOW I	BUILDE
2024 Bond Program	Gra	ades: r	/a					n/a
heeler Community Center	Year E	Built: 2	004					
24076 F.V.Pankow Blvd, Clinton Twp, MI	Building 9	Size: 4	.8900					n/a
Building Project Work List	Site S				1.158		Date	: 6/6/24
	Site .	JIZE.					Date	. 0/0/24
tegory Subsequence				Discort	Direct	Total		Dhasa
Subcategory Description	Other	Unit	Unit Cost	Direct	w/ Escalation	w/ Indirect	Driority	Phase Serie
Description	Qty	UIIIL	Unit Cost	Cost	ESCALALIUII	Costs	Priority	Serie
MODELING WORK								
Exterior Work								
Envelope	1	Inom	23,750.00	23,750	27,494	36,328	1	2
upgrade select exterior glazing	I	lpsm	· · · · · · · · · · · · · · · · · · ·	ork Subtotal:	27,494	36,328	<u> </u>	
Interior Work			ZACOTIOT VI	o. K oubtotuti	27/174	00,020		
replace interior openings	1	lpsm	1,000.00	1,000	1,158	1,530	2	2
replace architectural trim out/specialties	1	lpsm	137,000.00	137,000	158,595	209,554	1	2
			Interior W	ork Subtotal:	159,752	211,084		
Mechanical Systems Plumbing Work								
replace water heater, valves, and new water bottle filling station	1	lpsm	73,500	73,500	85,085	112,425	1	2
Integrated Automation	•		. 5,500	. 5,500	25,000	, 120	•	-
upgrade temperature controls	48,900	ea	1.75	85,575	99,064	130,895	2	2
		ı	dechanical Syste	ms Subtotal:	184,149	243,320		
Electrical Systems								
Power electrical to support technology	9	ea	1,500.00	13,500	15,628	20,650	1	2
cteet teat to support teelmotogy	,	Cu	Electrical Syste	•	15,628	20,650	ı	
				ion Subtotal:	387,023	511,381		
Technology Infrastructure								
data cabling for renovations		ea	10,000.00	10,000	11,576	14,198	1	2
demo coax/legacy cables		lpsm	10,000.00	10,000	11,576	14,198	1	2
replace cabling infrastructure	48,900		0.65	31,785	36,795	45,129	1	2
replace fiber to IDFs	_	ea	3,500.00	3,500	4,052	4,969	1	2
replace network switches - core/aggregate		ea	9,000.00	9,000	10,419	12,778	1	1
replace network switches - edge		ea	4,000.00	60,000	69,458	85,190	1	1
network switches – multigig replace rack UPS		ea ea	10,000.00 1,200.00	10,000 2,400	11,576 2,778	14,198 3,408	1	1
·	40		1,200.00	48,000	55,566	68,152	1	2
update wireless infrastructure upgrade phone system		lpsm	25,000.00	46,000 25,000	28,941	35,496	1	1
apgrade phone system	·	-	ology Infrastruct	•	242,737	297,716		·
Technology Safety & Security								
upgrade security camera system	50		1,500.00	75,000	86,822	106,487	1	2
install emergency alert system	48,900		0.75	36,675	42,456	52,072	1	2
replace PA systems	48,900		1.25	61,125	70,760	86,787	1	2
			gy Safety & Secu	-	200,038	245,346		
	recnnou	ogy & S	afety Infrastruct REMODELIN		442,774 829,797	543,063 1,054,444		
E WORK					/	.,,		
Site Improvements								
upgrade site sign - digital	1	lpsm	92,000.00	92,000	106,502	140,723	2	2
			Site Improvem	ent Subtotal:	106,502	140,723		
			SITE WOR	K SUBTOTAL:	106,502	140,723		
STRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)			1,250.00	20,000	23,153	28,397	2	2
admin staff computers		each	1,000.00	45,000	52,093	63,892	2	2
student desktops	69	each	800.00	55,200	63,901	78,374	1	1
mobile device storing/charging (classroom)	6	each	400.00	2,400	2,778	3,408	1	1
mobile device storing/charging (carts) Audiovisual	2	each	1,500.00	3,000	3,473	4,259	1	1
classroom AV (display, sound, PA, doc camera)	6	each	9,000.00	54,000	62,512	76,671	1	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2	2
conference room / IEP	7	each	5,000.00	35,000	40,517	49,694	1	2
board room audiovisual	1	lpsm	137,500	137,500	159,173	195,226	2	2
	INSTR	UCTION	IAL TECHNOLOG	Y SUBTOTAL:	448,117	549,615		
RNITURE, FURNISHINGS AND EQUIPMENT								
Alan Instructional Facility and								
Non-Instructional Equipment purchase plotters		ea	3,500.00	3,500	4,052	4,969	1	1

L'ANSE CREUSE PUBLIC SCHOOLS PR	ELIMINARY - FOR DISCUSS	SION PL	JRPOSE ONLY			BARTO	N MALOW I	BUILDERS
2024 Bond Program	G	rades:	n/a					n/a
Wheeler Community Center	Year	Built:	2004					
24076 F.V.Pankow Blvd, Clinton Twp, MI	Building	g Size:	48900					n/a
Building Project Work List	Site	e Size:			1.158		Date	: 6/6/24
Category Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Priority	Phase / Series
purchase radio / walkie-talkies	18	each	400.00	7,200	8,335	10,223	1	1
<u> </u>	N	lon-Inst	ructional Equipme F, F, & E	ent Subtotal: E SUBTOTAL:	12,387 12,387	15,192 15,192		
			PRO . Construction (JECT TOTAL: Contingency:	1,396,802 139,680	1,759,974		
Notes:			Permits / Genera	l Conditions:	21,715			
Scope of work is conceptual and will be detailed throughout th	e design phase		Design	Consultants:	116,865			
Indirect Costs include; contingency, general conditions & prof	essional fees			C.M. Costs:	84,912			
			BUILI	DING TOTAL:	1,759,974			

Brender Support Services	Center			Project No. [n]	20
Proposal #:	Series 1	Series 2	n/a	n/a	
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	ig
	New addition	New addition	New addition	New addition	<u> </u>
The associated Cost	✓ Remodeling	✓ Remodeling Remodeling		Remodeling	For multiple proposals,
Detail page must include	Instructional tech.	Instructional tech.	Instructional tech.	Instructional tech.	include a
a clear, concise, and detailed explanation and	✓ Furnishings/Equip.	✓ Furnishings/Equip.	Furnishings/Equip.	Furnishings/Equip.	separate project page
breakdown of costs for	✓ Buses	✓ Buses	Buses	Buses	for each.
each checked box.	Site work	Site work	Site work	Site work	
	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
	Site acquisition	Site acquisition	Site acquisition	Site acquisition	
Construction Cost Per	Square Foot				
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	g environmental or us	ability problems? (<i>cl</i>	heck all that apply)	
None noted	Asbestos abatement	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		-

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	n/a	n/a2	Total
New Construction	0	0	0	0	0
Remodeling	1,134,976	1,625,368	0	0	2,760,344
Construction Contingencies	113,590	165,431	0	0	279,021
Instructional Technology	0	0	0	0	0
Loose Furnishing/Equipment	926	28,941	0	0	29,867
Buses	2,628,157	351,576	0	0	2,979,733
Site Work	0	0	0	0	0
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	93,844	140,161	0	0	234,005
CM Fees and Costs	53,635	174,866	0	0	228,501
Estimated Costs	4,025,128	2,486,343	0	0	6,511,471

I certify that	I have asse	ssed the	conditions	relative to	this fac	lity and the	e details	of the p	oroposed	project(s)	described	above	and the
attached de	tail relative t	o the con	struction p	roject(s) a	are true a	ind correct	to the be	est of n	ny knowle	edge and b	oelief.		

4 Q.4M		6/17/2024	PARTNERS in Architecture, PLC #447:	23
Signature		Date	Firm Name and License Nu	mber
Michael A. Malone	AIA	mmalone@partners	inarch.com	586-469-3600
Printed Name		E-mail Address		Phone Number

'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR	DISCUSS	ION PL	IRPOSE ONLY			BARTOI	N MALOW I	BUILDER
2024 Bond Program		Gra	ades: 1	n/a					n/a
Brender Support Services Center		Year I	Built: ´	1975					
24400 F.V.Pankow Blvd, Clinton Twp, MI		Building	Size: 3	31,438					n/a
Building Project Work List		Site	Size: i	nc w/ Pankow		1.158		Date	: 6/6/24
ategory						Direct	Total		
Subcategory					Direct	w/	w/ Indirect		Phase
Description		Qty	Unit	Unit Cost	Cost	Escalation	Costs	Priority	Series
EMODELING WORK									
EMODELING WORK Exterior Work									
Roofing									
roof work - priority 1		27,730	sqft	25.00	693,250	802,524	1,060,390	1	2
roof work - priority 2		1	lpsm	12,600.00	12,600	14,586	19,273	2	2
				Exterior W	ork Subtotal:	817,110	1,079,663		
Interior Work				12 000 00	10.000	12.000	10.055		
replace architectural trim out/specialties		1	lpsm	12,000.00	12,000 ork Subtotal:	13,892 13,892	18,355 18,355	2	2
Mechanical Systems				interior w	oik Subtotat.	13,072	10,333		
Plumbing Work									
replace hot water heater and select piping		1	lpsm	57,000.00	57,000	65,985	87,187	1	2
Integrated Automation									
upgrade temperature control system		31,438		6.00	188,628	218,360	288,524	2	2
-				Mechanical Syste	ems Subtotal:	284,345	375,711		
Electrical Systems Power									
electrical to support technology		3	ea	1,500.00	4,500	5,209	6,883	1	1
replace data center room UPS			ea	15,000.00	30,000	34,729	45,888	1	1
				Electrical Syste	•	39,938	52,771		
				Construct	ion Subtotal:	1,155,284	1,526,500		
Technology Infrastructure									
replace cabling infrastructure		31,438		0.65	20,435	23,656	29,014	1	1
replace fiber to IDFs replace network switches - core/aggregate			ea	3,500.00	10,500	12,155	14,908	1	1
replace network switches - core/aggregate replace network switches - edge		2 10	ea	20,000.00 4,000.00	40,000 40,000	46,305 46,305	56,793 56,793	1	1
update wireless infrastructure		21		1,200.00	25,200	29,172	35,780	2	2
data center - series 1			lpsm	550,000.00	550,000	636,694	780,905	1	1
data center - series 2			lpsm	300,000.00	300,000	347,288	425,948	2	2
upgrade phone system		1	lpsm	125,000.00	125,000	144,703	177,478	1	1
			Techn	ology Infrastruct	ure Subtotal:	1,286,277	1,577,619		
Technology Safety & Security		2.5		1 500 00	50 500	10.775	7/5/1		
upgrade security camera system		35		1,500.00	52,500	60,775	74,541	1	2
video surveillance servers install emergency alert system		31,438	ea cf	40,000.00 0.75	160,000 23,579	185,220 27,295	227,172 33,477	1	2
replace PA systems		31,438		1.25	39,298	45,492	55,796	1	2
- replace () (c) (c) (c) (c) (c) (c) (c				gy Safety & Secu	•	318,782	390,986	· .	
	0.00			Safety Infrastruct		1,605,059	1,968,605		
	346750			REMODELIN	G SUBTOTAL:	2,760,344	3,495,106		
IRNITURE, FURNISHINGS AND EQUIPMENT									
Non-Instructional Equipment									
purchase admin staff computers		25	each	1,000.00	25,000	28,941	35,496	2	2
purchase radio / walkie-talkies		2	each	400.00	800	926	1,136	1	1
		No	on-Inst	ructional Equipm	ent Subtotal:	29,867	36,632		
				F, F, &	E SUBTOTAL:	29,867	36,632		
JSES									
purchase buses			each	109,506.56	2,628,157	2,628,157	2,628,157	1	1
purchase buses			each	117,192.00	351,576	351,576	351,576	1	2
		27		BUSE	S SUBTOTAL:	2,979,733	2,979,733		
					JECT TOTAL:	5,769,944	6,511,471		
				Construction	Contingency:	279,021			
				Permits / Genera		50,833			
otes: Scope of work is conceptual and will be detailed throughout Indirect Costs include; contingency, general conditions & J					al Conditions: Consultants: C.M. Costs:	50,833 234,005 177,668			

Utilization Summary

L'Anse Creuse Public Schools

50-140

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		Projected 5-Year Enrollment	Existing Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
1	Atwood Elementary	K-5	K-5	570	550	0	550	104%	0
2	Carkenord Elementary	K-5	K-5	570	550	0	550	104%	0
3	Graham Elementary & ECC	preK-5	preK-5	350	315	0	315	111%	0
4	Green Elementary	K-5	K-5	450	425	0	425	106%	0
5	Higgins Elementary	K-5	K-5	434	390	0	390	111%	0
6	Lobbestael Elementary	K-5	K-5	350	320	0	320	109%	0
7	South River Elementary	K-5	K-5	450	410	0	410	110%	0
8	Tenniswood Elementary	K-5	K-5	330	300	0	300	110%	0
9	Yacks Elementary	K-5	K-5	330	300	0	300	110%	0
10	Middle School Central	6-8	6-8	550	788	0	788	70%	0
11	Middle School East	6-8	6-8	510	720	0	720	71%	0
12	Middle School North	6-8	6-8	540	765	0	765	71%	0
13	Middle School South	6-8	6-8	480	608	0	608	79%	0
14	L'Anse Creuse High	9-12	9-12	1,305	1,530	0	1,530	85%	0
15	High School North	9-12	9-12	1,400	1,743	0	1,743	80%	0
16	Burdi Early Childhood Center	preK	preK	n/a	n/a	n/a	n/a	n/a	n/a
17	Pankow Center (career tech)	9-12	9-12	n/a	n/a	n/a	n/a	n/a	n/a
18	Pellerin Center (alt ed)	9-12	9-12	n/a	n/a	n/a	n/a	n/a	n/a
19	Wheeler Community Center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
20	Brender Service Center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Γotal				8,619	9,713	0	9,713	89%	0

Facility Summary

L'Anse Creuse Public Schools 50-140

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	7 New Site (Acres)	8 Bldg In Use? Y/N	9 Sq Ft of Closed Facility	10 Disposition of Closed Facility**
1	Instructional	Atwood Elementary	45690 North Avenue	Macomb	2004	69,296	0	Yes	0	n/a
2	Instructional	Carkenord Elementary	27100 24-Mile Road	Chesterfield	2001	69,375	0	Yes	0	n/a
3	Instructional	Graham Elementary	25555 Crocker Road	Harrison Twp	1964	60,614	0	Yes	0	n/a
4	Instructional	Green Elementary	47260 Sugerbush Road	Chesterfield	2009	71,473	0	Yes	0	n/a
5	Instructional	Higgins Elementary	29901 24-Mile Road	Chesterfield	1995	66,129	0	Yes	0	n/a
6	Instructional	Lobbestael Elementary	38495 Prentiss Street	Harrison Twp	1972	52,630	0	Yes	0	n/a
7	Instructional	South River Elementary	27733 South River Road	Harrison Twp	2007	71,561	0	Yes	0	n/a
8	Instructional	Tenniswood Elementary	23450 Glenwood Avenue	Clinton Twp	1973	52,620	0	Yes	0	n/a
9	Instructional	Yacks Elementary	34700 Union Lake Road	Harrison Twp	1976	56,567	0	Yes	0	n/a
10	Instructional	Middle School Central	38000 Reimold	Harrison Twp	1957	101,828	0	Yes	0	n/a
11	Instructional	Middle School East	30300 Hickey Road	Chesterfield	2000	132,974	0	Yes	0	n/a
12	Instructional	Middle School North	46201 Fairchild	Macomb	1965	78,388	0	Yes	0	n/a
13	Instructional	Middle School South	34641 Jefferson Avenue	Harrison Twp	1973	91,747	0	Yes	0	n/a
14	Instructional	L'Anse Creuse High	38495 L'Anse Creuse Road	Harrison Twp	1955	213,591	0	Yes	0	n/a
15	Instructional	High School North	23700 21-Mile Road	Macomb	1972	238,187	0	Yes	0	n/a
16	Instructional	Burdi Early Childhood Center	29851 24-Mile Road	Chesterfield	1995	17,102	0	Yes	0	n/a
17	Instructional	Pankow Center (career tech)	24600 F.V. Pankow Blvd	Clinton Twp	1974	140,891	0	Yes	0	n/a
18	Instructional	Pellerin Center (alt ed)	24001 F.V. Pankow Blvd	Clinton Twp	2009	37,897	0	Yes	0	n/a
19	Non-Instructional	Wheeler Community Center	24076 F.V. Pankow Blvd	Clinton Twp	2004	48,900	0	Yes	0	n/a
20	Bus Garage	Brender Service Center	24400 F.V. Pankow Blvd	Clinton Twp	1975	31,438	0	Yes	0	n/a
Total						1,703,208	0			

*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	

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Cost Summary - SERIES 1

L'Anse Creuse Public Schools												50-140	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	312,443	295,090	706,383	0	0	1,932,076	0	250,123	314,927	3,811,042
2		0	0	4,866,961	665,035	697,539	0	0	1,085,852	0	566,486	787,152	8,669,024
3		0	0	3,658,152	458,242	498,844	0	0	425,427	0	390,783	554,771	5,986,219
4		0	0	230,252	133,937	591,083	0	0	518,037	0	112,391	111,429	1,697,129
5		0	0	3,459,312	591,764	529,729	0	0	1,928,603	0	505,309	734,706	7,749,424
6		0	0	548,262	181,133	458,744	0	0	804,324	0	153,206	184,299	2,329,968
7		0	0	211,151	235,596	592,565	0	0	1,552,240	0	199,655	250,332	3,041,538
8		0	0	605,904	189,508	474,858	0	0	814,323	0	160,339	194,176	2,439,108
9		0	0	552,498	158,334	509,911	0	0	520,931	0	133,433	147,527	2,022,633
10		0	0	4,644,592	545,508	810,488	0	0	0	0	464,091	629,585	7,094,264
11		0	0	5,454,760	775,767	836,783	0	0	1,466,129	0	661,459	936,233	10,131,131
12		0	0	605,498	144,002	834,520	0	0	0	0	119,674	87,569	1,791,264
13		0	0	498,051	128,131	783,261	0	0	0	0	106,163	68,985	1,584,591
14		0	0	6,602,675	1,545,641	1,525,055	0	0	7,328,675	0	1,318,255	1,875,425	20,195,726
15		0	0	6,154,972	1,516,195	1,678,302	0	0	7,328,675	0	1,292,526	1,822,630	19,793,300
16		0	0	440,842	60,222	161,373	0	0	0	0	50,691	54,467	767,595
17		0	0	944,424	456,468	535,876	0	0	3,084,376	0	388,054	518,900	5,928,099
18		0	0	134,169	56,017	396,487	29,519	0	0	0	46,335	27,985	690,512
19		0	0	123,171	20,571	70,152	12,387	0	0	0	16,971	9,051	252,303
20		0	0	1,134,976	113,590	0	926	2,628,157	0	0	93,844	53,635	4,025,128
Total	#DIV/0!	0	0	41,183,067	8,270,752	12,691,952	42,832	2,628,157	28,789,668	0	7,029,788	9,363,785	110,000,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$1,577,378 \$1,577,378

Other (specify):

LESS: Estimated Interest Earnings:

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified)

\$110,000,000

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Cost Summary - SERIES 2

L'Ans	e Creuse F	Public Scho	ols									50-140	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	1,821,291	229,754	62,280	147,829	0	266,138	0	195,736	272,745	2,995,774
2		0	0	455,815	93,834	60,775	147,397	0	274,357	0	79,632	102,815	1,214,626
3		0	0	263,971	126,997	56,434	137,326	0	812,238	0	107,705	137,207	1,641,879
4		0	0	1,852,992	294,299	60,775	138,715	0	890,508	0	251,261	364,246	3,852,796
5		0	0	368,192	124,270	54,987	145,545	0	673,975	0	105,278	131,087	1,603,335
6		0	0	931,211	130,389	53,540	110,353	0	208,787	0	110,793	146,738	1,691,812
7		0	0	1,234,040	152,388	56,434	137,326	0	96,083	0	129,360	167,984	1,973,615
8		0	0	967,196	119,632	52,093	109,890	0	67,142	0	101,566	132,210	1,549,729
9		0	0	1,280,433	226,277	59,328	112,206	0	810,801	0	193,000	274,897	2,956,942
10		0	0	628,655	264,210	140,362	147,513	0	1,725,573	0	225,031	311,992	3,443,337
11		0	0	887,375	221,040	180,879	147,513	0	994,631	0	187,264	233,313	2,852,015
12		0	0	3,717,714	452,872	140,362	147,513	0	523,131	0	386,740	563,148	5,931,480
13		0	0	5,374,225	731,086	140,362	147,513	0	1,648,758	0	625,350	937,480	9,604,774
14		0	0	4,960,062	801,318	201,137	531,525	0	2,320,459	0	683,877	984,616	10,482,995
15		0	0	7,014,285	1,049,288	332,817	532,914	0	2,612,863	0	895,897	1,300,181	13,738,244
16		0	0	409,525	56,609	30,388	65,985	0	60,197	0	48,020	61,434	732,157
17		0	0	4,608,609	510,540	308,218	183,947	0	4,631	0	435,011	607,792	6,658,748
18		0	0	617,940	137,642	104,186	28,941	0	625,349	0	116,810	150,860	1,781,728
19		0	0	706,626	119,109	377,965	0	0	106,502	0	99,894	97,575	1,507,670
20		0	0	1,625,368	165,431	0	28,941	351,576	0	0	140,161	174,866	2,486,343
Total	#DIV/0!	0	0	39,725,525	6,006,986	2,473,324	3,148,893	351,576	14,722,121	0	5,118,388	7,153,186	78,700,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$1,128,857

LESS: Estimated Interest Earnings:

\$1,128,857

Other (specify):

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified)

\$78,700,000

3881, Page 8

Cost Summary - COMBINED SERIES 1 & 2

L'Anse Creuse Public Schools												50-140	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	2,133,734	524,844	768,663	147,829	0	2,198,214	0	445,860	587,672	6,806,816
2		0	0	5,322,776	758,870	758,314	147,397	0	1,360,209	0	646,118	889,967	9,883,651
3		0	0	3,922,123	585,239	555,278	137,326	0	1,237,666	0	498,488	691,978	7,628,098
4		0	0	2,083,243	428,236	651,859	138,715	0	1,408,545	0	363,652	475,674	5,549,925
5		0	0	3,827,504	716,034	584,716	145,545	0	2,602,578	0	610,587	865,794	9,352,759
6		0	0	1,479,473	311,522	512,284	110,353	0	1,013,111	0	264,000	331,037	4,021,780
7		0	0	1,445,191	387,984	648,999	137,326	0	1,648,323	0	329,015	418,316	5,015,153
8		0	0	1,573,100	309,141	526,951	109,890	0	881,465	0	261,905	326,386	3,988,838
9		0	0	1,832,931	384,611	569,239	112,206	0	1,331,732	0	326,433	422,424	4,979,575
10		0	0	5,273,247	809,718	950,850	147,513	0	1,725,573	0	689,122	941,577	10,537,601
11		0	0	6,342,135	996,807	1,017,662	147,513	0	2,460,760	0	848,722	1,169,546	12,983,146
12		0	0	4,323,212	596,874	974,882	147,513	0	523,131	0	506,415	650,717	7,722,744
13		0	0	5,872,277	859,217	923,623	147,513	0	1,648,758	0	731,513	1,006,465	11,189,366
14		0	0	11,562,737	2,346,959	1,726,193	531,525	0	9,649,134	0	2,002,132	2,860,041	30,678,721
15		0	0	13,169,257	2,565,483	2,011,119	532,914	0	9,941,538	0	2,188,422	3,122,811	33,531,544
16		0	0	850,368	116,831	191,761	65,985	0	60,197	0	98,711	115,901	1,499,753
17		0	0	5,553,034	967,008	844,094	183,947	0	3,089,007	0	823,066	1,126,692	12,586,846
18		0	0	752,109	193,659	500,673	58,460	0	625,349	0	163,145	178,845	2,472,240
19		0	0	829,797	139,680	448,117	12,387	0	106,502	0	116,865	106,627	1,759,974
20		0	0	2,760,344	279,021	0	29,867	2,979,733	0	0	234,005	228,501	6,511,471
Total	#DIV/0!	0	0	80,908,592	14,277,738	15,165,275	3,191,726	2,979,733	43,511,789	0	12,148,176	16,516,971	188,700,000

17. Funding:

PLUS: Election/Bond Issue Costs: \$2,706,235 **LESS:** Estimated Interest Earnings: \$2,706,235

Other (specify): ____

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified)

\$188,700,000

\$0

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
MS North	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			Col. 1			Col. 4	Col. 6	Col. 3
Instructions	\rightarrow	Enter	+	Enter	Enter	+	÷	x
matructions		Value	Col. 2	Value	Value	Col. 5	Col. 6 Total	Col. 7
	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
		Time						
	Average	between	Useful Life of		Allocation of			Average
	Useful Life of	Bonds Issue	Asset from		Related	Total Costs		Useful Life of
	Asset (in	Date and	Bond Issue	Expenditure	Professional	(Incl. Related	% of Total	Assets (in
Asset Type	Years)	Purchase	Date	Amount	Fees	Fees)	Cost	years)
School	40	1	41	0	0	0	0.00%	0.00
Buildings	40	'	41	U		O	0.0078	0.00
Building	30	4	31	10 255 705	6 000 260	25 255 074	35.12%	10.00
Improvements	30	'	31	19,355,705	6,000,269	25,355,974	35.12%	10.89
Roofing	20	1	21	14,405,477	4,465,698	18,871,175	26.14%	5.49
Flooring	10	0	10		0	0	0.00%	0.00
Furnishing/	10	4	11	0	0	0	0.00%	0.00
Equipment	10	1	11	U	0	0	0.00%	0.00
Technology	10	1	11	7,421,884	2,003,909	9,425,793	13.06%	1.44
Infrastructure	10	1	11	7,421,004	2,003,909	9,425,795	13.00%	1.44
Technology	5	1	6	12,734,784	3,183,696	15,918,480	22.05%	1.32
(instr/non-instr)	5	I	6	12,734,764	3,103,090	15,916,460	22.05%	1.32
Buses	6	1	7	2,628,157	0	2,628,157	3.64%	0.25
Total for purpose	s of determin	ng weighted a	vg useful life	56,546,008	15,653,571	72,199,579	100.00%	19.39

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			Col. 1			Col. 4	Col. 6	Col. 3
Instructions	\rightarrow	Enter	+	Enter	Enter	+	÷	х
matractions		Value	Col. 2	Value	Value	Col. 5	Col. 6 Total	Col. 7
	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
		Time						
	Average	between	Useful Life of		Allocation of			Average
	Useful Life of	Bonds Issue	Asset from		Related	Total Costs		Useful Life of
	Asset (in	Date and	Bond Issue	Expenditure	Professional	(Incl. Related	% of Total	Assets (in
Asset Type	Years)	Purchase	Date	Amount	Fees	Fees)	Cost	years)
School	40	1	41	0	0	0	0.00%	0.00
Buildings	40	'	41	U	0	U	0.0076	0.00
Building	20	0	20	05 404 400	7 000 050	20 442 472	FF 700/	47.05
Improvements	30	2	32	25,181,120	7,932,053	33,113,173	55.79%	17.85
Roofing	20	2	22	8,766,508	2,761,450	11,527,958	19.42%	4.27
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/	10	1	11	2,501,434	650,373	3,151,806	5.31%	0.58
Equipment	10	Į.	11	2,501,454	650,575	3,131,000	5.51%	0.56
Technology	10	1	11	5,777,897	1,560,032	7,337,930	12.36%	1.36
Infrastructure	10	'	11	3,777,097	1,300,032	7,337,930	12.30 /6	1.30
Technology	5	1	6	3,120,783	748,988	3,869,771	6.52%	0.39
(instr/non-instr)	5	ı	6	3,120,763	140,900	3,009,771	0.52%	0.39
Buses	6	1	7	351,576	0	351,576	0.59%	0.04
Total for purpose	s of determin	ng weighted a	vg useful life	45,699,318	13,652,896	59,352,214	100.00%	24.50

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			Col. 1			Col. 4	Col. 6	Col. 3
Instructions	\rightarrow	Enter	+	Enter	Enter	+	÷	х
matructions		Value	Col. 2	Value	Value	Col. 5	Col. 6 Total	Col. 7
	Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
		Time						
	Average	between	Useful Life of		Allocation of			Average
	Useful Life of	Bonds Issue	Asset from		Related	Total Costs		Useful Life of
	Asset (in	Date and	Bond Issue	Expenditure	Professional	(Incl. Related	% of Total	Assets (in
Asset Type	Years)	Purchase	Date	Amount	Fees	Fees)	Cost	years)
School	40	1	41	0	0	0	0.00%	0.00
Buildings	40	'	71	0	o o	0	0.0070	0.00
Building	30	2	32	44 EDG 0DE	12 022 221	E0 460 4 47	44.45%	14.22
Improvements	30		32	44,536,825	13,932,321	58,469,147	44.45%	14.22
Roofing	20	2	22	23,171,985	7,227,148	30,399,133	23.11%	5.08
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/	10	1	11	2,501,434	650,373	3,151,806	2.40%	0.26
Equipment	10	Į.	11	2,501,454	050,575	3,131,000	2.40%	0.26
Technology	10	1	11	13,199,782	3,563,941	16,763,723	12.74%	1.40
Infrastructure	10	'	'''	13,199,702	3,303,941	10,703,723	12.7470	1.40
Technology	5	1	6	15,855,567	3,932,684	19,788,251	15.04%	0.90
(instr/non-instr)	5	I	6	10,000,007	3,932,064	19,700,251	15.04%	0.90
Buses	6	2	8	2,979,733	0	2,979,733	2.27%	0.18
Total for purpose	s of determin	ng weighted a	vg useful life	102,245,326	29,306,467	131,551,793	100.00%	22.06