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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<sup>\*</sup>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

Application No.
50-140-4-K12-25-01
School District Code and Phone No.
50-140
586-783-6300

#### **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:

#### December 15, 2023

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 December 15, 2023

Sharon Ross	
Sharon Ross	
Secretary, Board of Education	Signature of Secretary
Amelia Servial	Erik Edoff
Treasurer, Board of Education	Superintendent of Schools
Thrun Law Firm, P.C.	2900 West Road, Suite 400, East Lansing, MI 48823
Bond Counsel	Mailing Address
PFM Financial Advisors LLC	555 Briarwood Circle, Suite 333, Ann Arbor, MI 48108
Financial Consultant	Mailing Address
PARTNERS in Architecture, PLC	65 Market Street, Suite 200, Mount Clemens, MI 48043
Architectural Firm	Mailing Address
Barton Malow Builders	26500 American Drive, Southfield, MI 48034
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 Three Hundred Thirty Million Dollars (\$330,000,000) 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;
- erecting, furnishing, and equipping new school facilities and additions to school buildings;
- acquiring and installing instructional technology;
- equipping, preparing, developing, and improving athletic fields and facilities, playgrounds, and sites;
- acquiring sites; and
- purchasing school buses?

#### The following is for informational purposes only:

The estimated millage that will be levied for the proposed bonds in 2024, under current law, is 0.00 mill (\$0 on each \$1,000 of taxable valuation) for a -0- 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 3.67 mills (\$3.67 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 \$35,718,529 and the estimated total interest to be paid thereon is \$54,287,993. The estimated duration of the millage levy associated with that borrowing is 21 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 \$24,689,928.

(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: <u>11/28/2023</u>

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

An Existing Bond Bobb. Est each outstanding dest issue separately in emonological order by issue date.												
	Original Bond Issue			Current Outstanding Principal Balance			Outstanding Principal Balance as of Election Date				Millage	
Issue Date	Purpose	Issue Amount	Current	Current	Current	Current Total	Qualified	Non-Qualified	Non-Voted	Election Date Total	Levied This Tax	Estimate Next Tax
issue Date	Fulpose Issue Amount	ISSUE AITIOUITE	Qualified	Non-Qualified	Non-Voted	Current Total	Qualified	Non-Qualified	Non-voted	Election Date Total	Year	Year
2/5/2015	Refunding	118,685,000	23,570,000			23,570,000	18,970,000			18,970,000	1.93	
6/2/2021	Refunding	149,500,000	140,660,000			140,660,000	131,705,000			131,705,000	3.88	
1/23/2023	Refunding	39,580,000	39,580,000			39,580,000	37,075,000			37,075,000	1.19	
						0				0		
						0				0		
						0				0		
Total			\$203,810,000	\$0	\$0	\$203,810,000	\$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	\$330,000,000	25 years	4.75%	\$258,627,868	\$54,287,993	\$312,915,861	3.67	0.00
Proposal 2								
Proposal 3								
Proposal 4								
Combined Issue	\$330,000,000			\$258,627,868	\$54,287,993	\$312,915,861	3.67	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 SBLF Loan Repayment Date	Current SBLF Balance	Estimated SBLF Balance as of Election Date	SBLF Beginning Date	Projected SBLF End Date	Estimated SBLF Interest Rate	Maximum SBLF Balance	Maximum SBLF Balance Year	Initial Computed Millage	Estimated Duration of Computed Millage	Existing Bonds Principal	Existing Bonds Interest	Proposed Bonds Principal	Proposed Bonds Interest
2046	\$26,253,645	\$24,689,928	2006	2046	5.00%	\$88,392,864	2035	7.00	21	\$0	\$5,647,256	\$35,718,529	\$54,287,993

**D. Property Tax Assumptions** 

Cur	rent		Growt	h 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 the District
2023	\$3,248,047,706	5.19%	2.28%	5.19%	2.28%	0.00%	100.00%	No

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

E. Millage

Total Estimated		Maximum Millage	
Proposed Millage for	Estimated Duration	without SBLF	1st Year Millage
Next Tax Year	of Millage Levy	Participation	Increase
7.00	31	9.16	0.00

F. Key Financial Measures

		120% of Average	Total Current Bond
Total Debt to	Weighted Average	Useful Life of	Debt plus School
Taxable Value	Maturity of Bonds	Assets	Bond Loan Debt
0.17	16.50	32.07	\$230,063,645

#### G. Bond Issuance

	Series/		Dated	Construction Fund	Construction Fund
	Proposal	Amount	Date	Beg. Date	End Date
	1	\$110,000,000	6/30/2024	7/1/2024	6/1/2027
١	2	110,000,000	5/1/2027	5/1/2027	4/1/2030
١	3	110,000,000	5/1/2030	5/1/2030	4/1/2033
	4				
	5				

#### H. Certification

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

Prepared By	Nate Watson
Firm	PEM Financial Advisors LLC



#### \$110,000,000

#### L'ANSE CREUSE PUBLIC SCHOOLS 2024 SCHOOL BUILDING AND SITE BONDS

	BOND SIZING SCHEDULE								
ESTIMATED BOND ISSUANCE	COSTS								
Bond Discount	1.000%	\$1,100,000	ESTIMATED OTHER COSTS						
Bond Insurance		0	Reimbursable Election Costs	\$44,656					
Bond Attorney Fee		137,486	Capitalized Interest	0					
Financial Consultant Fee		122,500	Other	0					
Credit Rating		76,500	TOTAL OTHER COSTS	\$44,656					
Qualification of Bonds		26,000	BOND SIZING						
Official Statement Printing & Ma	iling	2,500	Total Bond Issuance and Other Costs	\$1,513,892					
Notice of Sale Publication		1,800	Total Project Expenditures	110,075,000					
Treasury Filing Fee(s)		1,000	Total Project, Issuance & Other Costs	111,588,892					
Auditor's Consent Fee		500	Less Original Issue Premium	0					
Paying Agent Upfront Fee		500	Less Estimated Construction Fund Earnings	(1,588,892)					
Municipal Advisory Council Fee		450	Less Other Adjustments	0					
TOTAL BOND ISSUANCE COS	STS	\$1,469,236	AMOUNT OF BOND ISSUE	\$110,000,000					

#### PROJECT FUND DRAWS AND EARNINGS SECTION

	Estin	nated Expenditu	res A	verage Life =	1.46 years			
•	Project	Issuance &		Ü	,	Project Fund	Estimated	Projected
Date	Expenditures	Other Costs	Totals	Month	Payout %	Balance	Interest Rate	Interest Earned
Jun 24	•					\$110,000,000		
Jul 24	\$3,057,639	\$1,513,892	\$4,571,531	1	4.10%	105,428,469	1.00%	\$87,857
Aug 24	3,057,639		3,057,639	2	6.84%	102,458,688	1.00%	85,382
Sep 24	3,057,639		3,057,639	3	9.58%	99,486,431	1.00%	82,905
Oct 24	3,057,639		3,057,639	4	12.32%	96,511,697	1.00%	80,426
Nov 24	3,057,639		3,057,639	5	15.06%	93,534,485	1.00%	77,945
Dec 24	3,057,639		3,057,639	6	17.80%	90,554,791	1.00%	75,462
Jan 25	3,057,639		3,057,639	7	20.54%	87,572,615	1.00%	72,977
Feb 25	3,057,639		3,057,639	8	23.28%	84,587,953	1.00%	70,490
Mar 25	3,057,639		3,057,639	9	26.02%	81,600,804	1.00%	68,001
Apr 25	3,057,639		3,057,639	10	28.76%	78,611,166	1.00%	65,509
May 25	3,057,639		3,057,639	11	31.50%	75,619,036	1.00%	63,016
Jun 25	3,057,639		3,057,639	12	34.24%	72,624,413	1.00%	60,520
Jul 25	3,057,639		3,057,639	13	36.98%	69,627,295	1.00%	58,023
Aug 25	3,057,639		3,057,639	14	39.72%	66,627,679	1.00%	55,523
Sep 25	3,057,639		3,057,639	15	42.46%	63,625,563	1.00%	53,021
Oct 25	3,057,639		3,057,639	16	45.20%	60,620,945	1.00%	50,517
Nov 25	3,057,639		3,057,639	17	47.94%	57,613,824	1.00%	48,012
Dec 25	3,057,639		3,057,639	18	50.68%	54,604,197	1.00%	45,503
Jan 26	3,057,639		3,057,639	19	53.42%	51,592,061	1.00%	42,993
Feb 26	3,057,639		3,057,639	20	56.16%	48,577,416	1.00%	40,481
Mar 26	3,057,639		3,057,639	21	58.90%	45,560,258	1.00%	37,967
Apr 26	3,057,639		3,057,639	22	61.64%	42,540,586	1.00%	35,450
May 26	3,057,639		3,057,639	23	64.38%	39,518,398	1.00%	32,932
Jun 26	3,057,639		3,057,639	24	67.12%	36,493,691	1.00%	30,411
Jul 26	3,057,639		3,057,639	25	69.86%	33,466,463	1.00%	27,889
Aug 26	3,057,639		3,057,639	26	72.60%	30,436,713	1.00%	25,364
Sep 26	3,057,639		3,057,639	27	75.34%	27,404,438	1.00%	22,837
Oct 26	3,057,639		3,057,639	28	78.08%	24,369,636	1.00%	20,308
Nov 26	3,057,639		3,057,639	29	80.82%	21,332,305	1.00%	17,777
Dec 26	3,057,639		3,057,639	30	83.56%	18,292,443	1.00%	15,244
Jan 27	3,057,639		3,057,639	31	86.30%	15,250,048	1.00%	12,708
Feb 27	3,057,639		3,057,639	32	89.04%	12,205,118	1.00%	10,171
Mar 27	3,057,639		3,057,639	33	91.78%	9,157,650	1.00%	7,631
Apr 27	3,057,639		3,057,639	34	94.52%	6,107,642	1.00%	5,090
May 27	3,057,639		3,057,639	35	97.26%	3,055,093	1.00%	2,546
Jun 27	3,057,639		3,057,639	36	100.00%	0	1.00%	0
Jul 27	0		0	37	100.00%	0	1.00%	0
	\$110,075,000	\$1,513,892	\$111,588,892					\$1,588,892
•								kcg



#### \$110,000,000

#### L'ANSE CREUSE PUBLIC SCHOOLS 2027 SCHOOL BUILDING AND SITE BONDS

BOND SIZING SCHEDULE										
<b>ESTIMATED BOND ISSUANCE COSTS</b>										
Bond Discount 1.000%	\$1,100,000	ESTIMATED OTHER COSTS								
Bond Insurance	0	Reimbursable Election Costs	\$0							
Bond Attorney Fee	137,486	Capitalized Interest	0							
Financial Consultant Fee	122,500	Other	0							
Credit Rating	76,500	TOTAL OTHER COSTS	\$0							
Qualification of Bonds	26,000	BOND SIZING								
Official Statement Printing & Mailing	2,500	Total Bond Issuance and Other Costs	\$1,469,236							
Notice of Sale Publication	1,800	Total Project Expenditures	109,721,650							
Treasury Filing Fee(s)	1,000	Total Project, Issuance & Other Costs	111,190,885							
Auditor's Consent Fee	500	Less Original Issue Premium	0							
Paying Agent Upfront Fee	500	Less Estimated Construction Fund Earnings	(1,190,885)							
Municipal Advisory Council Fee	450	Less Other Adjustments	0							
TOTAL BOND ISSUANCE COSTS	\$1,469,236	AMOUNT OF BOND ISSUE	\$110,000,000							

#### PROJECT FUND DRAWS AND EARNINGS SECTION

	Estin	nated Expenditu	res A	verage Life =	1.45 years			
-	Project	Issuance &		Ü	,	Project Fund	Estimated	Projected
Date	Expenditures	Other Costs	Totals	Month	Payout %	Balance	Interest Rate	Interest Earned
May 27	•					\$110,000,000		
May 27	\$3,047,824	\$1,469,236	\$4,517,059	1	4.06%	105,482,941	0.75%	\$65,927
Jun 27	3,047,824		3,047,824	2	6.80%	102,501,045	0.75%	64,063
Jul 27	3,047,824		3,047,824	3	9.54%	99,517,284	0.75%	62,198
Aug 27	3,047,824		3,047,824	4	12.29%	96,531,659	0.75%	60,332
Sep 27	3,047,824		3,047,824	5	15.03%	93,544,168	0.75%	58,465
Oct 27	3,047,824		3,047,824	6	17.77%	90,554,809	0.75%	56,597
Nov 27	3,047,824		3,047,824	7	20.51%	87,563,582	0.75%	54,727
Dec 27	3,047,824		3,047,824	8	23.25%	84,570,486	0.75%	52,857
Jan 28	3,047,824		3,047,824	9	25.99%	81,575,519	0.75%	50,985
Feb 28	3,047,824		3,047,824	10	28.73%	78,578,680	0.75%	49,112
Mar 28	3,047,824		3,047,824	11	31.47%	75,579,968	0.75%	47,237
Apr 28	3,047,824		3,047,824	12	34.21%	72,579,382	0.75%	45,362
May 28	3,047,824		3,047,824	13	36.96%	69,576,920	0.75%	43,486
Jun 28	3,047,824		3,047,824	14	39.70%	66,572,582	0.75%	41,608
Jul 28	3,047,824		3,047,824	15	42.44%	63,566,367	0.75%	39,729
Aug 28	3,047,824		3,047,824	16	45.18%	60,558,272	0.75%	37,849
Sep 28	3,047,824		3,047,824	17	47.92%	57,548,297	0.75%	35,968
Oct 28	3,047,824		3,047,824	18	50.66%	54,536,441	0.75%	34,085
Nov 28	3,047,824		3,047,824	19	53.40%	51,522,703	0.75%	32,202
Dec 28	3,047,824		3,047,824	20	56.14%	48,507,081	0.75%	30,317
Jan 29	3,047,824		3,047,824	21	58.88%	45,489,575	0.75%	28,431
Feb 29	3,047,824		3,047,824	22	61.62%	42,470,182	0.75%	26,544
Mar 29	3,047,824		3,047,824	23	64.37%	39,448,902	0.75%	24,656
Apr 29	3,047,824		3,047,824	24	67.11%	36,425,734	0.75%	22,766
May 29	3,047,824		3,047,824	25	69.85%	33,400,677	0.75%	20,875
Jun 29	3,047,824		3,047,824	26	72.59%	30,373,728	0.75%	18,984
Jul 29	3,047,824		3,047,824	27	75.33%	27,344,888	0.75%	17,091
Aug 29	3,047,824		3,047,824	28	78.07%	24,314,155	0.75%	15,196
Sep 29	3,047,824		3,047,824	29	80.81%	21,281,528	0.75%	13,301
Oct 29	3,047,824		3,047,824	30	83.55%	18,247,005	0.75%	11,404
Nov 29	3,047,824		3,047,824	31	86.29%	15,210,586	0.75%	9,507
Dec 29	3,047,824		3,047,824	32	89.04%	12,172,269	0.75%	7,608
Jan 30	3,047,824		3,047,824	33	91.78%	9,132,053	0.75%	5,708
Feb 30	3,047,824		3,047,824	34	94.52%	6,089,937	0.75%	3,806
Mar 30	3,047,824		3,047,824	35	97.26%	3,045,920	0.75%	1,904
Apr 30	3,047,824		3,047,824	36	100.00%	0	0.75%	0
May 30	0		0	37	100.00%	0	0.75%	0
	\$109,721,650	\$1,469,236	\$111,190,885					\$1,190,885
-								kcg



#### \$110,000,000

#### L'ANSE CREUSE PUBLIC SCHOOLS 2030 SCHOOL BUILDING AND SITE BONDS

	BOND SIZING SCHEDULE									
ESTIMATED BOND ISSUANCE	COSTS									
Bond Discount	1.000%	\$1,100,000	ESTIMATED OTHER COSTS							
Bond Insurance		0	Reimbursable Election Costs	\$0						
Bond Attorney Fee		137,485	Capitalized Interest	0						
Financial Consultant Fee		122,500	Other	0						
Credit Rating		76,500	TOTAL OTHER COSTS	\$0						
Qualification of Bonds		25,800	BOND SIZING							
Official Statement Printing & Ma	iling	2,500	Total Bond Issuance and Other Costs	\$1,469,035						
Notice of Sale Publication		1,800	Total Project Expenditures	109,721,851						
Treasury Filing Fee(s)		1,000	Total Project, Issuance & Other Costs	111,190,887						
Auditor's Consent Fee		500	Less Original Issue Premium	0						
Paying Agent Upfront Fee		500	Less Estimated Construction Fund Earnings	(1,190,887)						
Municipal Advisory Council Fee		450	Less Other Adjustments	0						
TOTAL BOND ISSUANCE COSTS \$1,469,035			AMOUNT OF BOND ISSUE	\$110,000,000						

#### PROJECT FUND DRAWS AND EARNINGS SECTION

			Average Life =	verage Life = 1.45 years				
•	Project	Issuance &		-		Project Fund	Estimated	Projected
Date	Expenditures	Other Costs	Totals	Month	Payout %	Balance	Interest Rate	Interest Earned
May 30						\$110,000,000		
May 30	\$3,047,829	\$1,469,035	\$4,516,865	1	4.06%	105,483,135	0.75%	\$65,927
Jun 30	3,047,829		3,047,829	2	6.80%	102,501,233	0.75%	64,063
Jul 30	3,047,829		3,047,829		9.54%	99,517,467	0.75%	62,198
Aug 30	3,047,829		3,047,829	4	12.29%	96,531,836	0.75%	60,332
Sep 30	3,047,829		3,047,829		15.03%	93,544,339	0.75%	58,465
Oct 30	3,047,829		3,047,829		17.77%	90,554,975	0.75%	56,597
Nov 30	3,047,829		3,047,829	7	20.51%	87,563,743	0.75%	54,727
Dec 30	3,047,829		3,047,829	8	23.25%	84,570,641	0.75%	52,857
Jan 31	3,047,829		3,047,829		25.99%	81,575,669	0.75%	50,985
Feb 31	3,047,829		3,047,829	10	28.73%	78,578,824	0.75%	49,112
Mar 31	3,047,829		3,047,829	11	31.47%	75,580,107	0.75%	47,238
Apr 31	3,047,829		3,047,829	12	34.21%	72,579,515	0.75%	45,362
May 31	3,047,829		3,047,829		36.96%	69,577,048	0.75%	43,486
Jun 31	3,047,829		3,047,829		39.70%	66,572,705	0.75%	41,608
Jul 31	3,047,829		3,047,829	15	42.44%	63,566,483	0.75%	39,729
Aug 31	3,047,829		3,047,829	16	45.18%	60,558,383	0.75%	37,849
Sep 31	3,047,829		3,047,829	17	47.92%	57,548,403	0.75%	35,968
Oct 31	3,047,829		3,047,829	18	50.66%	54,536,542	0.75%	34,085
Nov 31	3,047,829		3,047,829	19	53.40%	51,522,798	0.75%	32,202
Dec 31	3,047,829		3,047,829		56.14%	48,507,170	0.75%	30,317
Jan 32	3,047,829		3,047,829	21	58.88%	45,489,658	0.75%	28,431
Feb 32	3,047,829		3,047,829	22	61.62%	42,470,260	0.75%	26,544
Mar 32	3,047,829		3,047,829	23	64.37%	39,448,975	0.75%	24,656
Apr 32	3,047,829		3,047,829	24	67.11%	36,425,801	0.75%	22,766
May 32	3,047,829		3,047,829		69.85%	33,400,738	0.75%	20,875
Jun 32	3,047,829		3,047,829	26	72.59%	30,373,784	0.75%	18,984
Jul 32	3,047,829		3,047,829	27	75.33%	27,344,939	0.75%	17,091
Aug 32	3,047,829		3,047,829		78.07%	24,314,200	0.75%	15,196
Sep 32	3,047,829		3,047,829	29	80.81%	21,281,567	0.75%	13,301
Oct 32	3,047,829		3,047,829	30	83.55%	18,247,039	0.75%	11,404
Nov 32	3,047,829		3,047,829	31	86.29%	15,210,614	0.75%	9,507
Dec 32	3,047,829		3,047,829	32	89.04%	12,172,292	0.75%	7,608
Jan 33	3,047,829		3,047,829	33	91.78%	9,132,070	0.75%	5,708
Feb 33	3,047,829		3,047,829	34	94.52%	6,089,948	0.75%	3,806
Mar 33	3,047,829		3,047,829	35	97.26%	3,045,925	0.75%	1,904
Apr 33	3,047,829		3,047,829		100.00%	0		0
May 33	0		0	37	100.00%	0	0.75%	0
- '	\$109,721,851	\$1,469,035	\$111,190,887	-				\$1,190,887
•				-				kcg



Table\_14a

Amount: Series 2024 \$110,000,000 <u>Series 2027</u> \$110,000,000 <u>Series 2030</u> \$110,000,000 \$330,000,000 L'ANSE CREUSE PUBLIC SCHOOLS TIC: 4.75% 4.75% 4.75% COUNTY OF MACOMB, STATE OF MICHIGAN Jun 30, 24 May 1, 27 May 1, 30 Dated Date: 2024, 2027, 2030 SCHOOL BUILDING AND SITE BONDS First Payment: Nov 1, 24 < 4 Months Nov 1, 27 Nov 1, 30 Jul 1, 24 (GENERAL OBLIGATION - UNLIMITED TAX) First Levy: Jul 1, 27 Jul 1, 30 Capitalized Int: \$0 \$0 \$0 ESTIMATED MILLAGE NEEDED TO RETIRE BONDED DEBT Debt/TV<sup>[1]</sup>: 8.70% 9.83% 9.89% Bond Term: 24 yrs., 10 mo. 25 yrs., 0 mo. 25 yrs., 0 mo. 1:5 Ratio: TRUE TRUE TRUE Average Life: 120% ProjUsefulLife: 17.32 16.98 15.20

34.56

28.26

**Ballot Information** First Yr. Millage 0.00 Avg. Millage 3.67

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

Interest Factor

0.95

Current Interest Bonds \$258,627,868 59,935,249 School Bond Loan Fund Less SBLF Interest on Prior Bonds (5,647,256)Total Interest Cost \$312,915,861

School Bond Loan Fund

2033 2046 Last SBLF Borrowing: Last SBLF Repayment: Mandatory Repayment: 2046

Fiscal Existing Series 2024 Series 2027 Series 2030 Exempt PP Delinquency Use of Funds Proposed and Mills Needed Mills Nee	Accrued Net District Interest Year End Payments
Toy Voor UTO Dobt Interest Due	Interest Year End Payments
Tax Year UTQ Debt Interest Due Interest Due Interest Due Interest Principal Due Total Debt Principal Due Total Debt Principal Due Total Debt Reimbursement Allowance on Hand Existing UTQ Projected Growth New Bond All Qualified Qualified Beginning (Borrowed) /	
Year End \$187,750,000 Nov 1 May 1 Rate May 1 Service May 1 Service May 1 Service Amount [3] 7.00% \$1,631,883 Debt Tax Base [4] Rate Avg. 3.67 Debt Debt Balance Repaid	During Year Balance \$900,059,5
2023 2024 \$21,419,142 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$1,288,891 \$25,043,389 \$22,779,1
2024 2025 21,448,654 1,756,181 2,612,500 4.750% 1,000,000 5,368,681 0 0 0 (653,631) 0 0 26,163,704 3,423,019,100 5.19% 0.00 7.64 7.00 25,043,389 (2,202,570)	1,268,605 28,514,564 23,961,1
2025 2026 21,461,662 2,588,750 2,588,750 4.750% 1,000,000 6,177,500 0 0 (653,631) 0 0 26,985,532 3,600,642,369 5.19% 0.00 7.49 7.00 28,514,564 (1,781,035)	1,441,177 31,736,776 25,204,4
2026 2027 21,463,052 2,565,000 2,565,000 4.750% 1,050,000 6,180,000 0 0 0 (653,631) 0 0 26,989,421 3,787,482,655 5.19% 0.00 7.13 7.00 31,736,776 (477,043)	1,591,415 33,805,233 26,512,3
2027 2028 21,470,198 2,540,063 2,540,063 4.750% 1,075,000 6,155,125 1,000,000 6,225,000 0 0 (653,631) 0 0 33,196,692 3,984,018,237 5.19% 0.00 8.33 7.00 33,805,233 (5,308,564)	1,735,128 40,848,925 27,888,1
2028 2029 21,462,891 2,514,531 2,514,531 4.750% 1,150,000 6,179,063 1,050,000 6,227,500 0 0 (653,631) 0 0 33,215,823 4,190,752,211 5.19% 0.00 7.93 7.00 40,848,925 (3,880,558)	2,074,868 46,804,351 29,335,2
2029 2030 21,445,107 2,487,219 2,487,219 4.750% 1,225,000 6,199,438 1,100,000 6,227,625 0 0 0 (653,631) 0 0 33,218,539 4,286,175,210 2.28% 2.02 7.75 7.00 46,804,351 (3,215,313)	2,368,072 52,387,736 30,003,2
2030 2031 21,424,890 2,458,125 2,458,125 4.750% 1,300,000 6,216,250 1,150,000 6,225,375 1,700,000 6,925,000 (653,631) 0 0 40,137,884 4,383,770,980 2.28% 2.22 9.16 7.00 52,387,736 (9,451,487)	2,698,253 64,537,476 30,686,3
2031 2032 21,136,198 2,427,250 2,427,250 4.750% 1,650,000 6,504,500 1,200,000 6,220,750 1,775,000 6,919,250 (653,631) 0 0 40,127,068 4,483,588,996 2.28% 2.39 8.95 7.00 64,537,476 (8,741,945)	3,304,254 76,583,674 31,385,1
2032 2033 11,688,592 2,388,063 2,388,063 4.750% 2,550,000 7,326,125 2,150,000 7,113,750 2,225,000 7,284,938 (653,631) 0 0 32,759,773 4,585,679,858 2.28% 4.55 7.14 7.00 76,583,674 (660,014)	3,835,151 81,078,840 32,099,7
2033 2034 11,513,299 2,327,500 2,327,500 4.750% 2,850,000 7,505,000 2,250,000 7,111,625 2,300,000 7,254,250 (653,631) 0 0 32,730,543 4,690,095,318 2.28% 4.59 6.98 7.00 81,078,840 100,124	4,053,362 85,032,078 32,830,6
2034 2035 11,328,956 2,259,813 2,259,813 4.750% 3,150,000 7,669,625 2,375,000 7,129,750 2,375,000 7,220,000 (653,631) 0 0 32,694,700 4,796,888,308 2.28% 4.69 6.82 7.00 85,032,078 883,518	4,244,305 88,392,864 33,578,2
2035 2036 3,420,313 2,185,000 2,185,000 4,750% 4,050,000 8,420,000 3,325,000 7,966,938 3,275,000 8,007,188 (653,631) 0 0 27,160,807 4,906,112,963 2.28% 6.35 5.54 7.00 88,392,864 7,181,984	4,363,530 85,574,411 34,342,7
2036 2037 3,297,125 2,088,813 2,088,813 4,750% 4,375,000 8,552,625 3,475,000 7,959,000 3,400,000 7,976,625 (653,631) 0 0 27,131,744 5,017,824,652 2.28% 6.36 5.41 7.00 85,574,411 7,993,028	4,207,403 81,788,786 35,124,7
2037 2038 3,169,500 1,984,906 1,984,906 4,750% 4,700,000 8,669,813 3,650,000 7,968,938 3,525,000 7,940,125 (653,631) 0 0 27,094,744 5,132,080,005 2.28% 6.39 5.28 7.00 81,788,786 8,829,816	4,013,926 76,972,896 35,924,5
2038 2039 3,047,625 1,873,281 1,873,281 4.750% 5,050,000 8,796,563 3,800,000 7,945,563 3,675,000 7,922,688 (653,631) 0 0 27,058,807 5,248,936,941 2.28% 6.43 5.16 7.00 76,972,896 9,683,752	3,765,805 71,054,950 36,742,5
2039 2040 2,941,313 1,753,344 1,753,344 4.750% 5,375,000 8,881,688 4,000,000 7,965,063 3,800,000 7,873,125 (653,631) 0 0 27,007,557 5,368,454,697 2.28% 6.46 5.03 7.00 71,054,950 10,571,626	3,465,010 63,948,334 37,579,1
2040 2041 0 1,625,688 1,625,688 4.750% 6,275,000 9,526,375 4,950,000 8,725,063 4,700,000 8,592,625 (653,631) 0 0 26,190,432 5,490,693,860 2.28% 7.00 4.77 7.00 63,948,334 12,244,425	3,090,665 54,794,574 38,434,8
2041 2042 0 1,476,656 1,476,656 4.750% 6,575,000 9,528,313 5,175,000 8,714,938 4,875,000 8,544,375 (653,631) 0 0 26,133,994 5,615,716,397 2.28% 7.00 4.65 7.00 54,794,574 13,176,020	2,626,930 44,245,483 39,310,0
2042 2043 0 1,320,500 1,320,500 4.750% 6,900,000 9,541,000 5,400,000 8,694,125 5,075,000 8,512,813 (653,631) 0 0 26,094,307 5,743,585,684 2.28% 7.00 4.54 7.00 44,245,483 14,110,793	2,091,450 32,226,140 40,205,1
2043 2044 0 1,156,625 1,156,625 4.750% 7,225,000 9,538,250 5,675,000 8,712,625 5,250,000 8,446,750 (653,631) 0 0 26,043,994 5,874,366,541 2.28% 7.00 4.43 7.00 32,226,140 15,076,571	1,483,663 18,633,231 41,120,5
2044 2045 0 985,031 985,031 4.750% 7,575,000 9,545,063 5,925,000 8,693,063 5,375,000 8,322,375 (653,631) 0 0 25,906,869 6,008,125,265 2.28% 7.00 4.31 7.00 18,633,231 16,150,008	792,733 3,275,957 42,056,8
2045 2046 0 805,125 805,125 4.750% 7,925,000 9,535,250 6,225,000 8,711,625 5,500,000 8,192,063 (653,631) 0 0 25,785,307 6,144,929,661 2.28% 4.75 4.20 4.75 3,275,957 3,406,610	130,653 (0) 29,191,9
2046  2047  0  616,906  616,906  4.750%  8,300,000  9,533,813  6,525,000  8,715,938  5,525,000  7,955,813  (443,588)  0  0  25,761,974  6,284,849,080  2.28%  4.10  4.10  4.10  (0)  0  2047  2048  0  419,781  419,781  419,781  4.750%  8.675,000  9.514,563  6.850,000  8.731,000  5.550,000  7.718,375  (382,753)  0  0  25,581,184  6.427,954,449  2.28%  3.98  3.98  3.98  3.98  0  0  0  0  0  0  0  0  0	(0) (0) 25,761,9 (0) (0) 25,581,1
	(0) (0) 25,381,1
2048  2049  0  213,750  213,750  4.750%  9,000,000  9,427,500  7,250,000  8,805,625  5,575,000  7,479,750  (371,606)  0  0  25,341,269  6,574,318,313  2.28%  3.85  3.85  3.85  3.85  (0)  0  2049  2050  0  0  4.750%  0  0  8,200,000  9,411,250  5,625,000  7,264,938  (359,925)  0  0  16,316,262  6,724,014,868  2.28%  2.43  2.43  2.43  (0)  0  0  0  0  0  0  0  0  0	(0) (0) 25,341,2
2050 2051 0 0 4.750% 0 0 8,575,000 9,396,750 5,675,000 7,244,938 (339,325) 0 0 16,217,917 6,877,119,997 2.28% 2.36 2.36 (0) 0	(0) (0) 16,316,2
	(0) (0) 16,217,9
	(0) (0) 15,747,4 (0) 6,397,1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(0) (0) 6,397,1
2053  2054  0  0  0  4.750%  0  0  0  0  0  5,900,000  6,180,250  (79,939)  0  0  6,100,311  7,525,205,276  2.28%  0.81  0.81  0.81  (0)  0  0  0  0  0  0  0  0  0	(0) (0) 6,298,9
2054 2055 0 0 0 4.750% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0) (0) 0,100,3
\$243.138.515 \$44.817.899 \$45.674.219 \$110.000.000 \$200.492.118 \$110.000.000 \$198.738.313 \$110.000.000 \$189.397.438 (\$17.410.192) \$1.594.537 (\$1.631.883) \$814.318.846	\$900.059.5

33.97

\$243,138,515 \$44,817,899 \$45,674,219 \$110,000,000 \$200,492,118 \$110,000,000 \$198,738,313 \$110,000,000 \$189,397,438 \$(\$17,410,192) \$1,594,537 (\$1,631,883) \$814,318,846\$

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 \$6,110,457 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2024.

[3] Based on \$93,375,814 of Exempt Personal Property for 2023

kcg

PQ LAnse Creuse PS 10.30.23 PQ Millage 11/20/2023 12:00 PM



#### 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: 3.827% 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: 1.932% 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 Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service
2023	2024	\$500,031	\$500,031	5.000%	\$4,600,000	\$5,600,063	\$1,190,040	\$1,190,040	0.561%	\$8,955,000	\$11,335,079
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
	Totals:	\$4,362,063	\$4,362,063	-	\$23,570,000	\$32,294,125	\$8,340,320	\$8,340,320		\$140,660,000	\$157,340,640

PQ LAnse Creuse PS 10.30.23, ExDebt Before



#### 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
2023	2024	\$989,500	\$989,500	5.000%	\$2,505,000	\$4,484,000	\$16,060,000	\$21,419,142
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
	Totals:	\$6,961,875	\$6,961,875		\$39,580,000	\$53,503,750	\$203,810,000	\$243,138,515

kcg 5.5.23

PQ LAnse Creuse PS 10.30.23, ExDebt Before 11/20/2023, 12:00 PM



#### **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 <sup>[2]</sup> : 6.27%	2023 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: 2030
SBLF Interest Rate: 5.00%

				Existing Unlimited Tax Qualified Debt & Mills								School Bon	d Loan Fund	
Levy Year	Fiscal Year End	Projected Tax Base <sup>[1]</sup>	Growth Rate	Existing UTQ Payments	Use of Funds on Hand \$1,631,883	Delinquency Allowance 7.00%	Exempt Pers. Property Receipts <sup>[3]</sup>	Net UTQ Payments	Needed All Qualified Debt	Mills Levied Qualified Debt	School Bond Loan Fund FY Begin Balance	(Borrowed) / Repaid	Accrued Interest During Year	F/Y Ending Balance
2023	2024	\$3,254,158,163	6.94%	\$21,419,142	(\$1,631,883)	\$1,594,537	(\$653,631)	\$20,728,165	6.37	7.00	\$25,805,440	\$2,050,942	\$1,288,891	\$25,043,389
2024	2025	3,423,019,100	5.19%	21,448,654	0	0	(653,631)	20,795,023	6.08	7.00	25,043,389	3,166,110	1,224,479	23,101,757
2025	2026	3,600,642,369	5.19%	21,461,662	0	0	(653,631)	20,808,032	5.78	7.00	23,101,757	4,396,465	1,117,788	19,823,080
2026	2027	3,787,482,655	5.19%	21,463,052	0	0	(653,631)	20,809,421	5.49	7.00	19,823,080	5,702,957	942,664	15,062,787
2027	2028	3,984,018,237	5.19%	21,470,198	0	0	(653,631)	20,816,567	5.23	7.00	15,062,787	7,071,561	693,604	8,684,830
2028	2029	4,190,752,211	5.19%	21,462,891	0	0	(653,631)	20,809,261	4.97	7.00	8,684,830	8,526,005	361,264	520,089
2029	2030	4,286,175,210	2.28%	21,445,107	0	0	(653,631)	20,791,477	4.85	4.98	520,089	538,656	18,567	(0)
2030	2031	4,383,770,980	2.28%	21,424,890	0	0	(464,684)	20,960,206	4.78	4.78	(0)	0	0	0
2031	2032	4,483,588,996	2.28%	21,136,198	0	0	(446,460)	20,689,739	4.61	4.61	0	(0)	0	0
2032	2033	4,585,679,858	2.28%	11,688,592	0	0	(430,887)	11,257,704	2.45	2.45	0	0	0	0
2033	2034	4,690,095,318	2.28%	11,513,299	0	0	(229,235)	11,284,064	2.41	2.41	0	0	0	0
2034	2035	4,796,888,308	2.28%	11,328,956	0	0	(224,656)	11,104,299	2.31	2.31	0	0	0	(0)
2035	2036	4,906,112,963	2.28%	3,420,313	0	0	(216,155)	3,204,157	0.65	0.65	(0)	(0)	0	0
2036	2037	5,017,824,652	2.28%	3,297,125	0	0	(60,983)	3,236,142	0.64	0.64	0	0	0	0
2037	2038	5,132,080,005	2.28%	3,169,500	0	0	(60,221)	3,109,279	0.61	0.61	0	0	0	(0)
2038	2039	5,248,936,941	2.28%	3,047,625	0	0	(56,572)	2,991,053	0.57	0.57	(0)	0	0	0
2039	2040	5,368,454,697	2.28%	2,941,313	0	0	(53,209)	2,888,103	0.54	0.54	0	0	0	0
2040	2041	5,490,693,860	2.28%	0	0	0	0	0	0.00	0.00	0	0	0	0
				\$243,138,515	(\$1,631,883)	\$1,594,537	(\$6,818,477)	\$236,282,692	-				\$5,647,256	

- [1] Includes \$6,110,457 of equivalent IFT valuations & less DDA/TIFA debt captures of \$0 for 2023.
- [2] Includes principal outstanding: \$203,810,000 of unlimited tax bonds and \$0 of limited tax bonds
- [3] Based on \$93,375,814 of Exempt Personal Property for 2023

kcg 5.5.23

PQ LAnse Creuse PS 10.30.23, Before Mills 11/20/2023, 12:00 PM



# 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	Ťotal	Change	Change	Average	Average
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%	2.24%
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%	6.33%	
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	7.69%	7.69%		
2001	1,923,670,698	0	1,923,670,698				

# **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 (%)
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.

			Project No. [n]	1
Series 1	Series 2	Series 3	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	
✓ 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			* includes escalation	
onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
w Addition Square Ft.	250	Cost per Sq Ft	\$405	*
address any existing	g environmental or us	sability problems? (c	heck all that apply)	
_		ADA requirements		
1.	2.	3.		-
١	New stand-alone bld 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	New stand-alone bldg New stand-alone bldg New addition  ✓ Remodeling ✓ Remodeling  ✓ Instructional tech. ✓ Instructional tech.  ✓ Furnishings/Equip. ✓ Furnishings/Equip.  ☐ Buses ☐ Buses  ✓ Site work ☐ Site work  ☐ Building shutdown (demo/closure) ☐ Site acquisition  ✓ Square Foot Instruction Square Ft. In/a (250)  ☐ Asbestos abatement ☐ Energy efficiencies	New stand-alone bldg New stand-alone bldg New stand-alone bldg New addition  New addition New addition New addition  ✓ Remodeling ✓ Remodeling ✓ Remodeling  ✓ Instructional tech. ✓ Instructional tech.  ✓ Furnishings/Equip. ✓ Furnishings/Equip. ☐ Furnishings/Equip.  ☐ Buses ☐ Buses ☐ Buses  ✓ Site work ☐ Site work ✓ Site work  ☐ Building shutdown ☐ Building shutdown ☐ (demo/closure) ☐ (demo/closure)  ☐ Site acquisition ☐ Site acquisition ☐ Site acquisition  ✓ Square Foot Onstruction Square Ft	Series 1  Series 2  Series 3  n/a  New stand-alone bldg New addition  New addition  Remodeling  Remodeling  Instructional tech.  Instructional tech.  Furnishings/Equip.  Furnishings/Equip.  Furnishings/Equip.  Buses  Buses  Buses  Buses  Buses  Site work  Site work  Site work  Building shutdown (demo/closure)  Site acquisition  Site address any existing environmental or usability problems? (check all that apply)  Asbestos abatement  A Cost per Sq Ft  \$405

### **Estimated Cost of Proposed Construction Project**

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	0	101,292	0	0	101,292
Remodeling	445,570	564,169	3,686,225	0	4,695,964
Construction Contingencies	148,952	168,550	553,588	0	871,090
Instructional Technology	486,434	782,555	0	0	1,268,989
Loose Furnishing/Equipment	32,761	230,252	0	0	263,012
Buses	0	0	0	0	0
Site Work	524,751	7,235	1,849,653	0	2,381,640
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	125,320	140,599	474,978	0	740,897
CM Fees and Costs	133,058	117,017	750,222	0	1,000,297
Estimated Costs	1,896,845	2,111,669	7,314,667	0	11,323,181

### **Certificate by Registered Architect**

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

4m Q.4m	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nun	nber
Michael A. Malone, AIA Printed Name	mmalone@partners E-mail Address	sinarch.com	586-469-3600 Phone Number

	NARY - FOR DISCUSSION PURPOSE ONLY				BARTO	N MALOW B	UILDE
2024 Bond Program		ades:					
twood Elementary	Year	Built:	2004				
45690 North Ave, Macomb, MI	Building	Size:	69,296				
Building Project Work List	Site	Size:	9.90		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
W CONSTRUCTION							
build kitchen / dry storage addition	250	sqft	350.00	87,500	101,292	133,839	2
baka kiteleliri ary storage adalitori		sqft	555.55	SUBTOTAL:	101,292	133,839	
MODEL INC WORK		•			·	·	
MODELING WORK  Exterior Work							
Roofing							
roof work - priority 1	16,600	sqft	26.31	436,700	505,535	667,973	3
Envelope							
replace exterior masonry	1	lpsm	17,292.64	17,300	20,027	26,462	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1 29	lpsm	12,750.51	12,800	14,818	19,579	3 1
replace select exterior doors  Exterior Wo	28 ork Subtotal:		5,500.00	154,000 <b>642,800</b>	178,274 <b>744,121</b>	235,557 <b>983,222</b>	<u> </u>
Interior Work	n Jubilial.			J-72,000	177,141	700,222	
replace casework (countertops and hardware)	1	lpsm	45,000.00	45,000	52,093	68,832	3
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	3
replace drywall partitions & paint due to construction	1	lpsm	60,000.00	60,000	69,458	91,776	3
renovate toilet room & locker room	800	sqft	275.00	220,000	254,678	336,510	3
replace carpet (classrooms, media center, offices)	36,860	sqft	9.00	331,700	383,984	507,366	3
replace VCT flooring (gym, cafeteria, service)		sqft	8.00	32,000	37,044	48,947	3
replace architectural trim out/specialties	1	lpsm	28,500.00	28,500	32,992	43,593	3
renovate space for emerging programs	1,000	sqft	100.00	100,000	115,763	152,959	3
upgrade space for special needs program renovate kitchen (walk-ins & serving line)	1,000	ea	75.00 180,000.00	75,000 180,000	86,822 208,373	114,719 275,327	2
remodeling for addition (connection allowance)		sqft	25.00	6,250	7,235	9,560	2
	rk Subtotal:			1,103,450	1,277,381	1,687,829	
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	3
select toilet room sink, toilet, & urinal bodies	1	lpsm	52,040.00	52,000	60,197	79,539	3
<b>HVAC System</b> replace roof top units, chillers, classroom units, valves, pumps, & select	1	Incm	978,500.00	978,500	1,132,736	1,496,707	3
replace mdf/idf air conditioning		lpsm ea	15,000.00	30,000	34,729	45,888	1
In upgrade temperature controls	_	-	. 5/555.55	55,555	0.,,2,	.0,000	•
upgrade temperature controls	69,296	sqft	6.00	415,800	481,340	636,005	3
Mechanical System	ms Subtotal:			1,552,300	1,796,981	2,374,387	
Electrical Systems			0.00				
Power			4 500 00		57.000		
electrical to support technology	33	ea	1,500.00	49,500	57,302	75,715	2
Lighting upgrade site lighting	1	Inon	7/ 250 00	77.700	07 127	112 002	2
upgrade site tighting upgrade building exterior lighting	1	lpsm lpsm	74,350.00 17,000.00	74,400 17,000	86,127 19,680	113,802 26,003	3
upgrade classroom lighting	36,860		6.50	239,600	277,367	366,490	3
Electrical System			0.00	380,500	440,476	582,010	
Constructi	on Subtotal:			3,679,050	4,258,960	5,627,449	
Technology Infrastructure							
demo coax/legacy cables		lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	69,296		0.65	45,000	52,093	63,892	2
replace fiber to IDFs		ea	3,500.00	3,500	4,052	4,969	2
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099 49.152	1
replace network switches - edge	12 2	ea	4,000.00	48,000	55,566 2,778	68,152	1
replace rack UPS update wireless infrastructure		ea ea	1,200.00 1,200.00	2,400 44,400	2,778 51,399	3,408 63,040	1 2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
			cture Subtotal:	180,800	209,299	256,705	
Technology Safety & Security			<del> </del>	,	. ,		
upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1
		ea					

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - F	OR DISCUSSION PURPOSE ONLY				BARTON MALOW BUILDERS			
2024 Bond Program	Gı	rades:	K-5					
twood Elementary	Year Built: 2004							
45690 North Ave, Macomb, MI	Building							
Building Project Work List		Size:			1.158	Date:	11/17/2	
	Jitt	JIZE.	7.70				11/1//2	
ategory				Discort	Direct	Total	Dhaaa	
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase Serie	
Description	uty	Oilit	Ollit Cost	COST	Locatation	COSCS	36116	
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1	
upgrade access control headend	1		20,000.00	20,000	23,153	28,397	1	
install emergency alert system	69,296		0.60	41,600	48,157	59,065	2	
replace PA systems	69,296		0.50	34,600	40,054	49,126	2	
	•	•	ecurity Subtotal: ructure Subtotal:	196,700 377,500	227,705 437,003	279,280 535,985		
T SSIMON			LING SUBTOTAL:	4,056,550	4,695,964	6,163,434		
TE WORK								
Site Paving								
repave parking lot & sidewalks	103,200	sqft	11.78	1,215,700	1,407,325	1,859,526	3	
repave north lot/paved play	8,700	•	7.00	60,900	70,499	93,152	3	
	•	Site	Paving Subtotal:	1,276,600	1,477,824	1,952,679		
Site Improvements								
upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	
upgrade playground soft surfaces	8,130	•	25.00	203,300	235,345	310,966	1	
replace playground pavement surfaces	29,400	•	3.50	102,900	119,120	157,395	3	
replace athletic fields, exterior courts, & furnishings	1		75,000.00	75,000	86,822	114,719	3	
site work for addition	250 1	•	25.00	6,250	7,235	9,560	2 3	
replace landscaping, fences, gates, screen walls, and site furnishings upgrade site sign - digital	1 1	lpsm	78,300.00 60,000.00	78,300 60,000	90,642 69,458	119,767 91,776	3	
	1 1	lpsm	•			•	3	
update storage facilities	·	lpsm	5,000.00 rement Subtotal:	5,000 <b>780,750</b>	5,788 <b>903,816</b>	7,648 <b>1,194,230</b>	3	
		•	ORK SUBTOTAL:	2,057,350	2,381,640	3,146,908		
NSTRUCTIONAL TECHNOLOGY								
Computers and Mobile Devices								
teacher computers (desktop + 1:1 device)	35	each	1,250.00	43,800	50,704	62,188	2	
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2	
student desktops	40	each	800.00	32,000	37,044	45,434	1	
mobile devices: k-5 (iPads)	721	each	400.00	288,200	333,628	409,194	1	
mobile device storing/charging (classroom)	30	each	400.00	12,000	13,892	17,038	1	
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1	
refresh devices - series 2	1	allo	352,220.00	352,200	407,716	500,063	2	
Audiovisual								
classroom AV (display, sound, PA, doc camera)	30		9,000.00	270,000	312,559	383,353	2	
av for collaboration spaces	1	•	35,000.00	35,000	40,517	49,694	1	
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1	
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1	
cafeteria/stage AV system	1 INCT	each	40,000.00	40,000	46,305	56,793	1	
	INSI	RUCIII	DNAL TECHNOLOG	Y SUBTUTAL:	1,268,989	1,556,414		
JRNITURE, FURNISHINGS AND EQUIPMENT								
Non-Instructional Equipment purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1	
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1	
purchase radio / walkie-talkies		each	400.00	14,800	17,133	21,013	1	
<u> </u>			structional Equipm		32,761	40,181		
Furniture, Furnishings & Equipment (FFE)								
purchase furniture	1	lpsm	198,855	198,900	230,252	282,404	2	
				,&E Subtotal:	230,252	282,404		
			F, F, &	E SUBTOTAL:	263,012	322,585		
				DJECT TOTAL:	8,710,897	11,323,181		
				Contingency:	871,090			
otes:			Permits / Gener		296,643			
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	740,897			
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	703,654			
			BUIL	DING TOTAL:	11,323,181			

# **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
Proposed New	List # of Teaching	Capacity	
	Stations	Factor	Capacity
(K-2) Lower Elementary	<b>Stations</b>	Factor 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

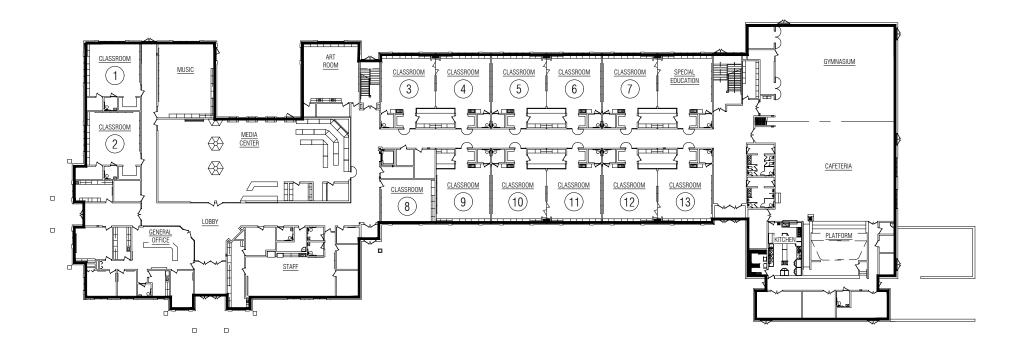
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 570

**Utilization Percentage 104%** 

(Projected 5-Year Enrollment / Total Capacity)

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

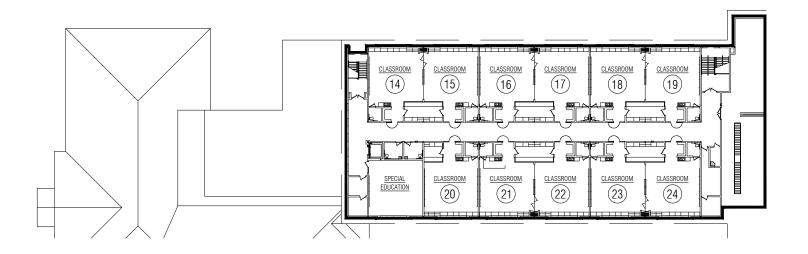




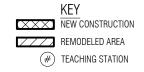
















Carkenord Elementary				Project No. [n]	2
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
	New addition	New addition	New addition	New addition	
The associated Cost	✓ Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For multiple 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	
Nev	w Addition Square Ft.	n/a	Cost per Sq Ft	n/a	
Does this proposed project	address any existing	j environmental or us	sability 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	716,107	5,824,337	57,881	0	6,598,325
Construction Contingencies	171,393	803,252	5,788	0	980,433
Instructional Technology	488,008	772,895	0	0	1,260,904
Loose Furnishing/Equipment	32,298	230,200	0	0	262,497
Buses	0	0	0	0	0
Site Work	477,520	1,205,088	0	0	1,682,608
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	144,219	684,986	4,966	0	834,171
CM Fees and Costs	153,601	971,982	7,844	0	1,133,428
Estimated Costs	2,183,146	10,492,740	76,480	0	12,752,366

### **Certificate by Registered Architect**

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

4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #	<del>#</del> 44723
Signature	Date	Firm Name and Licer	nse Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - I					DAKTU	N MALOW B	OILEDE
2024 Bond Program		ades:					
arkenord Elementary	Year	Built:	2001				
27100 24-Mile Road, Chesterfield, MI	Building	Size:	69,375				
Building Project Work List	Site	Size:	23.00		1.158	Date:	11/17/2
едогу					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	80,000	sqft	10.38	830,400	961,292	1,270,174	2
Envelope							_
replace exterior masonry	1	lpsm	8,500	8,500	9,840	13,002	2
upgrade select exterior glazing	1	lpsm	22,000	22,000	25,468	33,651	2
replace select exterior envelope materials	1	lpsm	45,000	45,000	52,093	68,832	2
replace EIFS with metal panel	2,796	sqft ea	70.00	195,720	226,570	299,372	2 1
replace select exterior doors			5,500 Work Subtotal:	280,500 <b>1,382,120</b>	324,714 <b>1,599,977</b>	429,051 <b>2,114,081</b>	ı
nterior Work	-	.xtci ioi	Work Subtotat.	1,302,120	1,377,777	2,114,001	
replace casework (countertops and hardware)	1	lpsm	78,250.00	78,250	90,584	119,691	2
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	3
replace drywall partitions & paint due to construction	1	lpsm	167,500.00	167,500	193,902	256,207	2
renovate toilet room & locker room	800	sqft	275.00	220,000	254,678	336,510	2
replace carpet (classrooms, media center, offices)	50,500	sqft	9.00	454,500	526,141	695,200	2
replace VCT flooring (gym, cafeteria, service)	6,000	sqft	8.00	48,000	55,566	73,420	2
replace architectural trim out/specialties	1	lpsm	45,000.00	45,000	52,093	68,832	2
renovate space for emerging programs	1,000	sqft	100.00	100,000	115,763	152,959	2
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	2
renovate kitchen (walk-ins & serving line)	1	ea	230,000.00	230,000	266,254	351,806	2
Mechanical Systems							
Plumbing Work	1	Inon	74 000 00	74 000	07.000	11/ 2/0	2
replace water heater, pump, water bottle filler, grease trap, & valves select toilet room sink, toilet, & urinal bodies replacement	1	lpsm	76,000.00 54,080.00	76,000 54,080	87,980 62,604	116,249 82,720	2
	'	lpsm	54,060.00	54,060	02,004	62,720	Z
HVAC System	1	Incm	1,463,000.00	1,463,000	1,693,605	2,237,795	2
replace roof top units, classroom units, valves, pumps, & select piping	3	lpsm					1
replace mdf/idf air conditioning  Integrated Automation	3	ea	15,000.00	45,000	52,093	68,832	,
upgrade temperature controls	69,375	caft	6.00	416,250	481,861	636,693	2
upgrade temperature controls			stems Subtotal:	2,054,330	2,378,144	3,142,289	
lectrical Systems				_,00.,000	_,0,0,1	5/1.12/25	
Power							
electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	2
Lighting							
upgrade building exterior lighting	17	ea	850.00	14,450	16,728	22,103	2
upgrade classroom lighting	31,650	lpsm	6.50	205,725	238,152	314,676	2
	Elect	rical Sy	stems Subtotal:	268,175	310,446	410,199	
		Constr	uction Subtotal:	5,172,875	5,988,249	7,912,394	
echnology Infrastructure				_			
demo coax/legacy cables		lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	69,375		0.65	45,094	52,202	64,025	2
replace fiber to IDFs		ea	3,500.00	7,000	8,103	9,939	2
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1
replace network switches - edge	16	ea	4,000.00	64,000	74,088	90,869	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1
update wireless infrastructure	40	ea	1,200.00	48,000	55,566	68,152	2
data center (disaster recovery) - series 1	1	lpsm	75,000.00	75,000	86,822	106,487	1
data center (disaster recovery) - series 2	1	lpsm	50,000.00	50,000	57,881	70,991	2
upgrade phone system		lpsm	25,000.00	25,000	28,941	35,496	1
echnology Safety & Security	reconocogy II	ııırastrı	ucture Subtotal:	330,194	382,241	468,818	
. · · · · · · · · · · · · · · · · · · ·	20	ea	1,500.00	45,000	52,093	63,892	1
upgrade security camera system	30	cu					
upgrade security camera system replace entrance intercoms	30	ea	3,500.00	10,500	12,155	14,908	1
				10,500 45,000	12,155 52,093	14,908 63,892	1 1

L'ANSE CREUSE PUBLIC SCHOOLS	SCHOOLS PRELIMINARY - FOR DISCUSSION PURPOSE ONLY					BARTON MALOW BUILDERS			
2024 Bond Program	Grades: K-5								
Carkenord Elementary		Year	Built: :	2001					
27100 24-Mile Road, Chesterfield, MI		Building							
Building Project Work List			Size:			1.158	Data	11/17/23	
		Site	SIZE.	23.00				11/1//23	
Category					Discot	Direct	Total	Dhara /	
Subcategory Description		Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase / Series	
Description		uty	Ollic	Ollit Cost	COST	Lacatation	C0313	Series	
install emergency alert system		69,375		0.60	41,625	48,186	59,100	2	
replace PA systems	Ŧ	69,375		0.50	34,688	40,155	49,250	2	
			-	curity Subtotal: icture Subtotal:	196,813 527,006	227,835 610,076	279,440 748,258		
	recimoto			ING SUBTOTAL:	5,699,881	6,598,325	8,660,651		
SITE WORK									
Site Paving									
repave north lot, drop off loop		1	lpsm	441,500.00	441,500	511,091	675,315	2	
repave south lot, sidewalks		1	lpsm	256,600.00	256,600	297,047	392,494	2	
	·			Site Pav	ring Subtotal:	808,138	1,067,809		
Site Improvements				050 000 00	050 000	200 :2:	202 222		
upgrade playground equipment		4 500	lpsm	250,000.00	250,000	289,406	382,398	1	
upgrade playground soft surfaces replace playground pavement surfaces		6,500 50,000		25.00 3.50	162,500 175,000	188,114 202,584	248,559 267,679	1 2	
			ea			•			
replace athletic fields, exterior courts, & furnishing	•	1	lpsm	10,000.00	10,000	11,576	15,296	2 2	
replace landscaping, fences, gates, screen walls, a upgrade site sign - digital	and site furnishings	1	lpsm lpsm	86,400.00 60,000.00	86,400 60,000	100,019 69,458	132,157 91,776	2	
update storage facilities		1	lpsm	11,450.00	11,500	13,313	17,590	2	
apadic storage racinites			трэнн	Site Improvem		874,470	1,155,455		
				-	K SUBTOTAL:	1,682,608	2,223,264		
INSTRUCTIONAL TECHNOLOGY									
Computers and Mobile Devices									
teacher computers (desktop + 1:1 device)		34	each	1,250.00	42,500	49,199	60,343	2	
admin staff computers		10	each	1,000.00	10,000	11,576	14,198	2	
student desktops		40	each	800.00	32,000	37,044	45,434	1	
mobile devices: k-5 (iPads)		725	each	400.00	289,960	335,665	411,693	1	
mobile device storing/charging (classroom)		29	each	400.00	11,600	13,428	16,470	1	
mobile device storing/charging (carts)		2	each	1,500.00	3,000	3,473	4,259	1	
refresh devices - series 2		1	allo	354,156.00	354,156	409,980	502,840	2	
Audiovisual classroom AV (display, sound, PA, doc camera)		29	each	9,000.00	261,000	302,140	370,575	2	
av for collaboration spaces		1		35,000.00	35,000	40,517	49,694	1	
conference room / IEP		1	lpsm each	5,000.00	5,000	5,788	7,074	1	
digital signage displays		1	allo	5,000.00	5,000	5,788	7,077	1	
cafeteria/stage AV system		1	each	40,000.00	40,000	46,305	56,793	1	
		INST		NAL TECHNOLOG		1,260,904	1,546,498		
FURNITURE, FURNISHINGS AND EQUIPMENT									
Non-Instructional Equipment									
purchase plotters		1	ea	3,500.00	3,500	4,052	4,969	1	
purchase STEM / robotics equipment		1	lpsm	10,000.00	10,000	11,576	14,198	1	
purchase radio / walkie-talkies			each	400.00	14,400	16,670	20,446	1	
		N	on-Inst	tructional Equipm	ent Subtotal:	32,298	39,613		
Furniture, Furnishings & Equipment (FFE)		1	Incm	100 055 00	100 055	220 200	202 210	2	
purchase furniture		1	lpsm	198,855.00 <b>F.F</b>	198,855 ,&E Subtotal:	230,200 <b>230,200</b>	282,340 <b>282,340</b>		
					E SUBTOTAL:	262,497	321,953		
					JECT TOTAL:	9,804,334	12,752,366		
					Contingency:	980,433	12,732,300		
Notes:					al Conditions:	337,518			
				Permits / Identer					
	hout the design phase								
Scope of work is conceptual and will be detailed through Indirect Costs include; contingency, general conditions					Consultants: C.M. Costs:	834,171 795,910			

# **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
Proposed New	List # of Teaching	Capacity	
	Stations	Factor	Capacity
(K-2) Lower Elementary	<b>Stations</b>	Factor 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

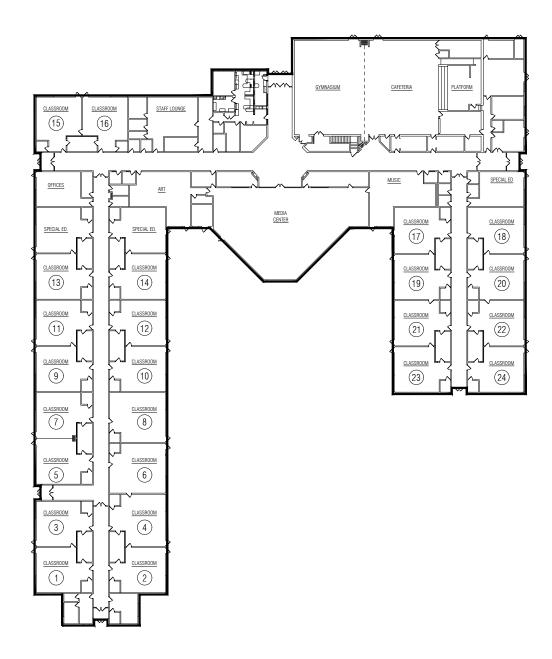
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment \_\_\_570

**Utilization Percentage 104%** 

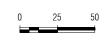
(Projected 5-Year Enrollment / Total Capacity)

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	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	ig
	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	g 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	486,666	4,307,586	57,881	0	4,852,133
Construction Contingencies	110,903	603,788	12,734	0	727,425
Instructional Technology	591,454	283,759	0	0	875,213
Loose Furnishing/Equipment	30,909	276,505	0	0	307,413
Buses	0	0	0	0	0
Site Work	0	1,170,035	69,458	0	1,239,492
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	92,303	515,809	10,926	0	619,037
CM Fees and Costs	71,205	756,080	17,257	0	844,541
Estimated Costs	1,383,438	7,913,561	168,255	0	9,465,254

# **Certificate by Registered Architect**

I certify that	I have asse	ssed the c	conditions	relative t	o this	facility a	and the	details	of the	proposed	project(s)	described	above	and the
attached det	tail relative t	o the cons	struction pi	roject(s)	are tru	ie and o	correct	to the b	est of i	my knowle	edge and b	oelief.		

4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #4	4723
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

Building Project Work List	Year Building	ades: p Built: 1 Size: 6	964				
raham Elementary / Early Childhood Center 25555 Crocker Blvd, Harrison Twp, MI Building Project Work List tegory Subcategory	Building						
Building Project Work List	3	Size: 6	0 /1/				
tegory	Site		00,614				
	Jile	Size: 9	P.83		1.158	Date:	11/17/2
Subcategory					Direct	Total	
				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MODELING WORK							
Exterior Work							
Roofing	10.500					4 / / 0 / 0 0	
roof work - priority 1	43,500	sqft	25.00	1,087,500	1,258,917	1,663,432	2
Envelope replace exterior masonry	1	lpsm	15,480.00	15,480	17,920	23,678	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2
replace select exterior envelop materials	1	lpsm	16,000.00	16,000	18,522	24,473	2
reroute roof overflow drainage	1	lpsm	3,000.00	3,000	3,473	4,589	2
replace EIFS with metal panel	2,796	sqft	70.00	195,720	226,570	299,372	2
replace select exterior doors	33	ea	5,500.00	181,500 /ork Subtotal:	210,109	277,621	1
nterior Work			Exterior W	OIK SUDIOTAL:	1,760,979	2,326,817	
replace casework (countertops and hardware)	1	lpsm	35,000.00	35,000	40,517	53,536	2
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	3
replace drywall partitions & paint due to construction	1	allo	5,000.00	5,000	5,788	7,648	2
renovate toilet room & locker room	750	sqft	275.00	206,250	238,760	315,479	2
replace carpet (classrooms, media center, offices)	38,100	sqft	9.00	342,900	396,950	524,497	2
replace VCT flooring (gym, cafeteria, service) renovate space for emerging programs	2,000 1,000	sqft sqft	8.00 100.00	16,000 100,000	18,522 115,763	24,473 152,959	2
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	2
renovate kitchen (kitchen office & serving line)	•	lpsm	35,000.00	35,000	40,517	53,536	2
			•	ork Subtotal:	1,001,519	1,323,327	
Mechanical Systems							
Plumbing Work			7,	7			
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	2
select replace toilet room sink, toilet, & urinal bodies <b>HVAC System</b>	į	lpsm	37,180.00	37,180	43,040	56,870	Z
replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	560,066.00	560,066	648,346	856,673	2
replace mdf/idf air conditioning		ea	15,000.00	30,000	34,729	45,888	1
Integrated Automation							
upgrade temperature control system	60,614	sqft	6.00	363,684	421,010	556,289	2
Electrical Systems			Mechanical Syst	ems Subtotal:	1,235,105	1,631,969	
Power							
electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	2
Lighting							
upgrade building exterior lighting	34	ea	850.00	28,900	33,455	44,205	2
upgrade classroom lighting (ECC)	46,000	sqft	6.50	299,000	346,130	457,348	2
			Electrical Syst		429,942	568,091	
Fechnology Infrastructure			Construc	tion Subtotal:	4,427,545	5,850,204	
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	60,614		0.65	39,399	45,609	55,940	2
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	2
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1
replace network switches - edge	14	ea	4,000.00	56,000	64,827	79,510	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1
update wireless infrastructure	34	ea Incm	1,200.00	40,800 25,000	47,231 28 041	57,929 35,494	2
upgrade phone system	1	lpsm Techn	25,000.00 ology Infrastruct	25,000 ture Subtotal:	28,941 <b>207,908</b>	35,496 <b>255,000</b>	1
echnology Safety & Security					20,1,00	200,000	
upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
	- 1	Incm	20,000.00	20,000	23,153	20 207	1
upgrade access control headend install emergency alert system	1 60,614	lpsm	0.60	20,000 36,368	42,101	28,397 51,637	2

2024 Bond Program			URPOSE ONLY		BARTO	N MALOW B	UILDE
	Gr	ades:	preK-5				
aham Elementary / Early Childhood Center	Year	Built:	1964				
25555 Crocker Blvd, Harrison Twp, MI	Building	Size:	60,614				
Building Project Work List	Site	Size:	9.83		1.158	Date:	11/17/2
egory					Direct	Total	
ubcategory				Direct	w/	w/ Indirect	Phas
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
			C-4-t 0 C	ulto Coltantalo	21/ /70	2/5 757	
			ogy Safety & Secu Safety Infrastruct	-	216,679 424,587	265,757 520,756	
	reciiio	lugy &	-	G SUBTOTAL:	4,852,133	6,370,960	
E WORK							
ite Paving							
repave parking lots and underground stormwater management	1	sqft	376,150.00	376,150	435,441	575,356	2
repave bus loop, driveway, and sidewalks	1	sqft	162,120.00	162,120	187,674	247,978	2
			Site Pa	ing Subtotal:	623,115	823,334	
ite Improvements				a			
upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	2
upgrade playground soft surfaces	4,700	sqft	25.00	117,500	136,021	179,727	2
replace playground pavement surfaces	25,700	sqft	3.50	89,950	104,128	137,587	2
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	10,000.00	10,000	11,576	15,296	2
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	2
			Site Improvem	ent Subtotal:	616,377	814,432	
			SITE WOR	K SUBTOTAL:	1,239,492	1,637,766	
TRUCTIONAL TECHNOLOGY							
omputers and Mobile Devices							
teacher computers (desktop + 1:1 device)	31	each	1,250.00	38,750	44,858	55,018	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	366	each	400.00	146,520	169,615	208,033	1
mobile device storing/charging (classroom)	26	each	400.00	10,400	12,039	14,766	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	196,372.00	196,372	227,325	278,814	2
udiovisual							
classroom AV (display, sound, PA, doc camera)	26	each	9,000.00	234,000	270,884	332,240	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
			NAL TECHNOLOG		875,213	1,073,449	
NITURE, FURNISHINGS AND EQUIPMENT							
on-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	13,200	15,281	18,742	1
	N	lon-Ins	tructional Equipm	ent Subtotal:	30,909	37,909	
to the same to	4	1	102.055.00	102.055	212.025	2/1.0/0	
		lpsm	183,855.00	183,855	212,835	261,042	2
purchase furniture		lpsm	55,000.00	55,000	63,669	84,128	2
		-		0.5.0	677	0/=	
purchase furniture		•	-	,&E Subtotal:	276,505 307 413	345,170 383 079	
purchase furniture			F, F, &	E SUBTOTAL:	307,413	383,079	
purchase furniture			F, F, &	E SUBTOTAL:	307,413 7,274,251		
purchase furniture purchase kitchen equipment			F, F, & PRO Construction	E SUBTOTAL:  DJECT TOTAL:  Contingency:	<b>307,413 7,274,251</b> 727,425	383,079	
purchase furniture purchase kitchen equipment es:			F, F, &  PRO  Construction  Permits / Gener	DJECT TOTAL: Contingency: al Conditions:	<b>307,413 7,274,251</b> 727,425 252,151	383,079	
•			F, F, & PRO Construction Permits / Gener	E SUBTOTAL:  DJECT TOTAL:  Contingency:	<b>307,413 7,274,251</b> 727,425	383,079	

# **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 ioposeu itew	Stations	Factor	Capacity
(K-2) Lower Elementary	<b>Stations</b>	Factor 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

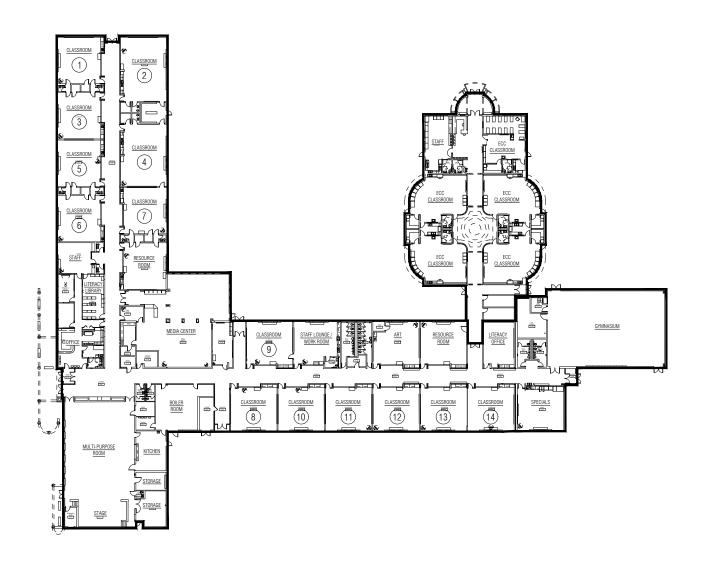
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 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	Series 3	n/a						
	☑ New stand-alone bldg	New stand-alone blo		New stand-alone blo	9					
	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	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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	271,926	172,278	2,510,815	0	2,955,019
Construction Contingencies	68,578	134,611	364,078	0	567,267
Instructional Technology	381,553	655,795	0	0	1,037,348
Loose Furnishing/Equipment	32,298	0	212,835	0	245,133
Buses	0	0	0	0	0
Site Work	0	518,037	917,133	0	1,435,170
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	56,691	112,947	311,677	0	481,315
CM Fees and Costs	33,353	111,725	473,920	0	618,998
Estimated Costs	844,399	1,705,393	4,790,458	0	7,340,249

### **Certificate by Registered Architect**

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

4m Q.4m	11/28/2023	PARTNERS in Architecture, PLC #44723	
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	

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOR	DISCUSS	ION PU	IRPOSE ONLY		BARTO	N MALOW B	UILDER
2024 Bond Program		ades: I					
reen Elementary		Built: 2					
47260 Sugarbush Road, Chesterfield, MI	Building						
					4.450	5.	44.47.400
Building Project Work List	Site	Size: 7	1.75		1.158	Date:	11/17/23
ategory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
EMODELING WORK							
Exterior Work							
Roofing	1	Inana	/ 000 00	/ 000	/ /21	/ 110	3
roof work - priority 2 (snow guards)  Envelope		lpsm	4,000.00	4,000	4,631	6,118	3
replace exterior masonry	1	lpsm	40,820.00	40,820	47,254	62,438	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	9,900.00	9,900	11,460	15,143	3
reroute roof overflow drainage	1	lpsm	7,500.00	7,500	8,682	11,472	3
	E	xterior	Work Subtotal:	84,220	97,495	128,822	
Interior Work				22.522			
replace casework (countertops and hardware)	1	lpsm	22,500.00	22,500	26,047 28,041	34,416 38,240	3
replace interior openings replace drywall partitions & paint due to construction	1 1	allo lpsm	25,000.00 40,000.00	25,000 40,000	28,941 46,305	38,240 61,184	3 3
renovate toilet room & locker room	800	•	275.00	220,000	254,678	336,510	3
replace carpet (classrooms, media center, offices)	38,500		9.00	346,500	401,117	530,004	3
replace VCT flooring (gym, cafeteria, service)	4,000	•	8.00	32,000	37,044	48,947	3
replace architectural trim out/specialties		lpsm	15,000.00	15,000	17,364	22,944	3
renovate space for emerging programs	1,000	•	100.00	100,000	115,763	152,959	3
upgrade space for special needs program		•	75.00	75,000	86,822	114,719	3
		Interior	Work Subtotal:	876,000	1,014,080	1,339,924	
Mechanical Systems							
Plumbing Work							
replace water heater, pump, water bottle filler, grease trap, & valves	1	1	76,000.00	76,000	87,980	116,249	3
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	41,040.00	41,040	47,509	62,774	3
HVAC System replace roof top units, classroom units, valves, pumps, & select piping	1	Inon	217 270 00	214 270	244 247	/02.020	3
replace AC chiller, rooftop units, classroom units, refurbish mezzanine units	1 1	lpsm lpsm	316,378.00 127,200.00	316,378 127,200	366,247 147,250	483,930 194,564	3
replace mdf/idf air conditioning		ea	15,000.00	30,000	34,729	45,888	1
Integrated Automation	_	cu	10,000.00	00,000	04,727	40,000	•
upgrade temperature control system	71,473	sqft	6.00	428,838	496,434	655,948	3
	Mechar	nical Sys	stems Subtotal:	1,019,456	1,180,148	1,559,353	
Electrical Systems							
Power	22		1 500 00	/0.000	EE E//	72 /20	2
electrical to support technology  Lighting	32	ea	1,500.00	48,000	55,566	73,420	2
upgrade building exterior lighting	16	ea	850.00	13,600	15,744	20,802	3
upgrade classroom lighting	31,640		6.50	205,660	238,077	314,576	3
apgrade classroom agraing	,	_	stems Subtotal:	267,260	309,387	408,799	
				2,246,936	2,601,109	3,436,898	
		Constru	ıction Subtotal:	2,240,730			
Technology Infrastructure		Constru					2
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	
data cabling for renovations demo coax/legacy cables	1	ea lpsm	10,000.00 7,500.00	10,000 7,500	8,682	10,649	2
data cabling for renovations demo coax/legacy cables replace fiber to IDFs	1 1	ea lpsm ea	10,000.00 7,500.00 3,500.00	10,000 7,500 3,500	8,682 4,052	10,649 4,969	2
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate	1 1 1	ea lpsm ea ea	10,000.00 7,500.00 3,500.00 5,000.00	10,000 7,500 3,500 5,000	8,682 4,052 5,788	10,649 4,969 7,099	2 2 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge	1 1 1 13	ea lpsm ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00	10,000 7,500 3,500 5,000 52,000	8,682 4,052 5,788 60,197	10,649 4,969 7,099 73,831	2 2 1 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS	1 1 1 13 2	ea lpsm ea ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00	10,000 7,500 3,500 5,000 52,000 2,400	8,682 4,052 5,788 60,197 2,778	10,649 4,969 7,099 73,831 3,408	2 2 1 1 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure	1 1 1 13 2 1	ea lpsm ea ea ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 1,200.00	10,000 7,500 3,500 5,000 52,000 2,400 1,200	8,682 4,052 5,788 60,197 2,778 1,389	10,649 4,969 7,099 73,831 3,408 1,704	2 2 1 1 1 2
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system	1 1 1 13 2 1	ea lpsm ea ea ea ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00	10,000 7,500 3,500 5,000 52,000 2,400	8,682 4,052 5,788 60,197 2,778	10,649 4,969 7,099 73,831 3,408	2 2 1 1 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system	1 1 1 13 2 1	ea lpsm ea ea ea ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 1,200.00 25,000.00	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000	8,682 4,052 5,788 60,197 2,778 1,389 28,941	10,649 4,969 7,099 73,831 3,408 1,704 35,496	2 2 1 1 1 2
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system	1 1 13 2 1 1 chnology I	ea lpsm ea ea ea ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 25,000.00 icture Subtotal:	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000 <b>106,600</b>	8,682 4,052 5,788 60,197 2,778 1,389 28,941	10,649 4,969 7,099 73,831 3,408 1,704 35,496	2 2 1 1 1 2
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system  Te  Technology Safety & Security  upgrade security camera system replace entrance intercoms	1 1 1 13 2 1 1 chnology I	ea lpsm ea ea ea ea lpsm nfrastru	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 25,000.00 icture Subtotal:	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000 <b>106,600</b>	8,682 4,052 5,788 60,197 2,778 1,389 28,941 <b>123,403</b> 52,093 12,155	10,649 4,969 7,099 73,831 3,408 1,704 35,496 <b>151,354</b> 63,892 14,908	2 2 1 1 1 2 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system  Te  Technology Safety & Security  upgrade security camera system replace entrance intercoms upgrade access control system	1 1 1 13 2 1 1 chnology I	ea lpsm ea ea ea ea lpsm nfrastru ea ea	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 25,000.00 icture Subtotal: 1,500.00 3,500.00 4,500.00	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000 <b>106,600</b> 45,000 45,000	8,682 4,052 5,788 60,197 2,778 1,389 28,941 <b>123,403</b> 52,093 12,155 52,093	10,649 4,969 7,099 73,831 3,408 1,704 35,496 <b>151,354</b> 63,892 14,908 63,892	2 2 1 1 1 2 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system  Te  Technology Safety & Security  upgrade security camera system replace entrance intercoms upgrade access control system upgrade access control headend	1 1 1 13 2 1 1 chnology I 30 3 10 1	ea lpsm ea ea ea lpsm nfrastru ea ea lpsm	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 25,000.00  1,500.00 3,500.00 4,500.00 20,000.00	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000 106,600 45,000 45,000 20,000	8,682 4,052 5,788 60,197 2,778 1,389 28,941 123,403 52,093 12,155 52,093 23,153	10,649 4,969 7,099 73,831 3,408 1,704 35,496 <b>151,354</b> 63,892 14,908 63,892 28,397	2 2 1 1 1 2 1
data cabling for renovations demo coax/legacy cables replace fiber to IDFs replace network switches - core/aggregate replace network switches - edge replace rack UPS update wireless infrastructure upgrade phone system  Te  Technology Safety & Security  upgrade security camera system replace entrance intercoms upgrade access control system	1 1 1 13 2 1 1 chnology I	ea lpsm ea ea ea lpsm nfrastru ea ea lpsm sf	10,000.00 7,500.00 3,500.00 5,000.00 4,000.00 1,200.00 25,000.00 icture Subtotal: 1,500.00 3,500.00 4,500.00	10,000 7,500 3,500 5,000 52,000 2,400 1,200 25,000 <b>106,600</b> 45,000 45,000	8,682 4,052 5,788 60,197 2,778 1,389 28,941 <b>123,403</b> 52,093 12,155 52,093	10,649 4,969 7,099 73,831 3,408 1,704 35,496 <b>151,354</b> 63,892 14,908 63,892	2 2 1 1 1 2 1

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINAR	RY - FOR DISCUS	SION P	URPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	G	rades:	K-5				
Green Elementary	Year	r Built:	2009				
47260 Sugarbush Road, Chesterfield, MI	Building						
Building Project Work List		e Size:			1.158	Data	11/17/23
	310	e Jize.	7.73				11/1//23
Category				D'	Direct	Total	DI /
Subcategory  Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase / Series
·				Cust	LSCALALIUII	CUSIS	Series
Ted	chnology & Safety RE		ucture Subtotal: .ING SUBTOTAL:	305,720 2,552,656	353,909 2,955,019	434,070 3,870,968	
SITE WORK							
Site Paving			(07.100.00	(07.100	707.500	07/ 50/	
repave parking lot including stormwater management	1		637,100.00 Paving Subtotal:	637,100 <b>637,100</b>	737,523 <b>737,523</b>	974,504 <b>974,504</b>	3
Site Improvements		Site	Paving Subtotat:	037,100	131,323	7/4,304	
upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	2
upgrade playground soft surfaces	7,900	•	25.00	197,500	228,631	302,095	2
replace playground pavement surfaces	21,900	sqft	3.66	80,154	92,788	122,603	3
replace landscaping, fences, gates, screen walls, and site furnishing	js 1	lpsm	10,000.00	10,000	11,576	15,296	3
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1		5,000.00	5,000	5,788	7,648	3
	Site	•	ement Subtotal: ORK SUBTOTAL:	602,654 1,239,754	697,647 1,435,170	921,815 1,896,319	
INCTRICTIONAL TECHNOLOGY		J.1.E 11	OHN GODIOTAL.	1,207,704	1,400,170	.,0,0,0.,	
INSTRUCTIONAL TECHNOLOGY  Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	34	each	1,250.00	42,500	49,199	60,343	2
admin staff computers	10		1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	495	each	400.00	198,000	229,210	281,126	1
mobile device storing/charging (classroom)	29	each	400.00	11,600	13,428	16,470	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	253,000.00	253,000	292,879	359,216	2
Audiovisual							
classroom AV (display, sound, PA, doc camera)	29		9,000.00	261,000	302,140	370,575	2
av for collaboration spaces	1	1	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1		5,000.00	5,000	5,788	7,099	1
digital signage displays	1		5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1 INST		40,000.00 DNAL TECHNOLOG	40,000	46,305 <b>1,037,348</b>	56,793 <b>1,272,307</b>	11
	INSI	KOCIIC	THAL TECHNOLOG	JI JUDIUIAL.	1,007,040	1,272,307	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	14,400	16,670	20,446	1
F			tructional Equipn		32,298	39,613	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1		183,855.00	183,855	212,835	261,042	3
			•	,&E Subtotal:	212,835	261,042	
			F, F, &	E SUBTOTAL:	245,133	300,655	
			PR	DJECT TOTAL:	5,672,670	7,340,249	
				Contingency:	567,267		
Notes:			Permits / Gener		177,596		
Scope of work is conceptual and will be detailed throughout the design ph			Desig	n Consultants:	481,315		
Indirect Costs include; contingency, general conditions & professional fee	es			C.M. Costs:	441,401		
			BUII	LDING TOTAL:	7,340,249		

# **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	_		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

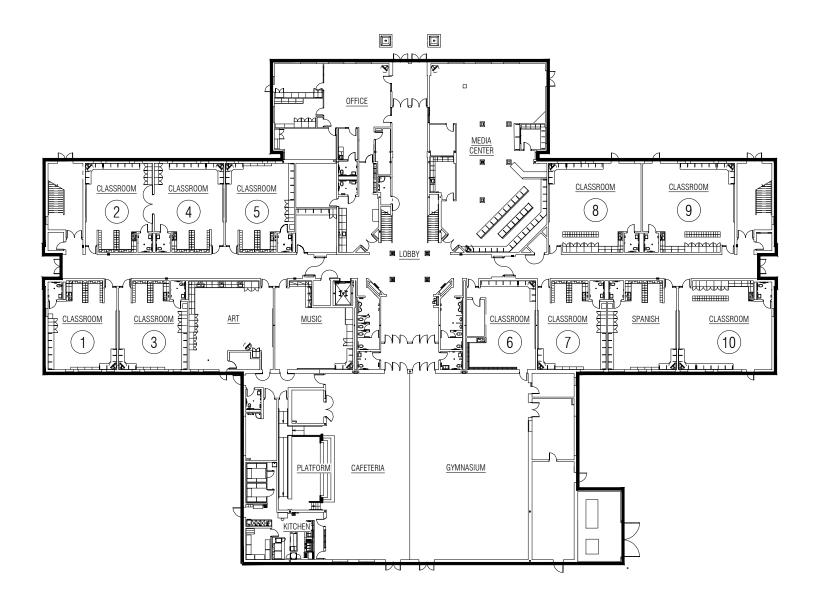
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 450

Utilization Percentage 106%

(Projected 5-Year Enrollment / Total Capacity)

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

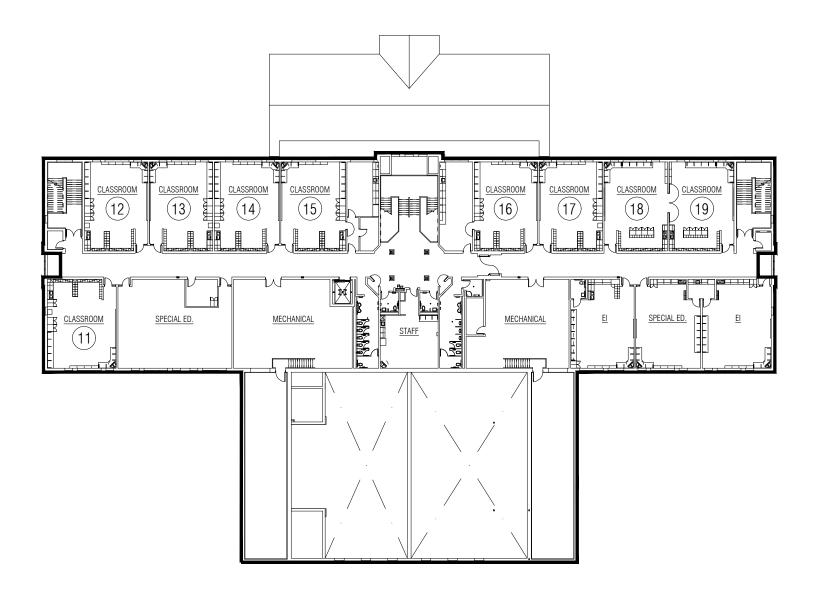




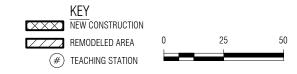














Higgins Elementary	Project No. [n]	5			
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
	New addition	New addition	New addition	New addition	
The associated Cost	Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For multiple 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 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	j 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	589,463	4,253,653	57,881	0	4,900,997
Construction Contingencies	175,896	488,868	218,805	0	883,569
Instructional Technology	315,569	635,027	0	0	950,595
Loose Furnishing/Equipment	332,997	0	0	0	332,997
Buses	0	0	0	0	0
Site Work	520,931	0	2,130,165	0	2,651,097
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	148,285	416,704	187,734	0	752,723
CM Fees and Costs	165,329	586,383	296,524	0	1,048,236
Estimated Costs	2,248,469	6,380,635	2,891,110	0	11,520,214

# **Certificate by Registered Architect**

I certify that	I have assess	ed the conditions	relative to th	is facility a	and the	details of	of the p	oroposed	project(s)	described	above	and the
attached de	tail relative to t	the construction p	project(s) are	true and o	correct t	o the be	st of n	ny knowle	edge and b	oelief.		

4m Q.4m	11/28/2023	PARTNERS in Architecture, PLC	#44723
Signature	Date	Firm Name and Lice	ense Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

#### L'ANSE CREUSE PUBLIC SCHOOLS **PRELIMINARY - FOR DISCUSSION PURPOSE ONLY BARTON MALOW BUILDERS** 2024 Bond Program Grades: K-5 **Higgins Elementary** Year Built: 1995 29901 24-Mile Road, Chesterfield, MI Building Size: 66,129 **Building Project Work List** Site Size: 17.46 1.158 Date: 11/17/23 Category Direct Total Subcategory Direct w/ w/Indirect Phase / Unit **Unit Cost Escalation** Description Qtv Cost Costs Series REMODELING WORK **Exterior Work** Envelope 14,400.00 14,400 22,026 replace exterior masonry 1 lpsm 16,670 2 upgrade select exterior glazing 22.000.00 22,000 25,468 33,651 2 lpsm 40,350.00 40,350 46,710 61,719 replace select exterior envelop materials lpsm 2 1 66,679 reroute roof overflow drainage 57,600.00 57,600 88,105 1 lpsm 2 replace EIFS with metal panels 1,430 sqft 70.00 100,100 115,878 153,112 2 replace select exterior doors 55 ea 5 500 00 302,500 350,182 462,702 1 **Exterior Work Subtotal:** 621,587 821,315 Interior Work replace casework (countertops and hardware) 65,000.00 65,000 75,246 99,424 2 1 lpsm 76,480 replace interior openings 1 allo 50,000.00 50,000 57,881 3 40,000 61,184 40,000.00 46,305 2 replace drywall partitions & paint due to construction 1 lpsm 800 275.00 220,000 254,678 336,510 2 toilet room & locker room renovation sqft replace carpet (classrooms, media center, offices) 53,500 lpsm 9.00 481,500 557,396 736,499 2 32,000 48,947 replace VCT flooring (gym, cafeteria, service) 4,000 sqft 8 00 37,044 2 64,000 640,000 740.880 978,940 replace ceilings lpsm 10.00 2 16.000.00 16,000 18,522 replace architectural trim out/specialties 1 lpsm 24,473 2 100.00 100,000 115,763 152,959 2 renovate space for emerging programs 1,000 sqft upgrade space for special needs program 1,000 sqft 75.00 75,000 86,822 114,719 2 renovate kitchen (walk-ins & serving line) 135,000.00 135,000 156,279 206,495 2 Interior Work Subtotal: 2,146,816 2,836,630 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 select replace toilet room sink, toilet, & urinal bodies 1 lpsm 55,360.00 55,360 64,086 84,678 2 **HVAC System** replace roof top units, classroom units, valves, pumps, & select piping 1 lpsm 676,726.00 676,726 783,395 1,035,115 2 15,000.00 replace mdf/idf air conditioning 1 ea 15,000 17,364 22,944 **Integrated Automation** 66,129 sqft 396,774 459,316 606,903 upgrade temperature control system 6.00 2 Mechanical Systems Subtotal: 1,412,140 1,865,889 **Electrical Systems** Power electrical to support technology 28 ea 1,500.00 42,000 48,620 64,243 2 Lighting upgrade building exterior lighting 20 ea 850.00 17,000 19,680 26,003 2 31,020 sqft 6.50 201,630 233,412 308,412 2 upgrade classroom lighting 398,658 **Electrical Systems Subtotal:** 301,712 Construction Subtotal: 4,482,255 5,922,493 **Technology Infrastructure** 7,500 demo coax/legacy cables 1 lpsm 7.500.00 8 682 10.649 2 66,129 sf 0.65 42.984 49.759 61,030 2 replace cabling infrastructure 7,099 5.000.00 5,000 5.788 replace network switches - core/aggregate 1 ea 1 replace network switches - edge 10 4.000.00 40.000 46.305 56.793 ea 1 replace rack UPS 1 ea 1,200.00 1,200 1,389 1,704 1 update wireless infrastructure 39 1,200.00 46,800 54,177 66,448 2 ea upgrade phone system 1 lpsm 25,000.00 28,941 35,496 Technology Infrastructure Subtotal: 239,218 195,041 **Technology Safety & Security** 30 1,500.00 45,000 52,093 63,892 upgrade security camera system ea 3 3,500.00 10,500 12,155 14,908 1 replace entrance intercoms ea upgrade access control system 10 ea 4,500.00 45,000 52,093 63,892 1 upgrade access control headend 1 lpsm 20,000.00 20,000 23,153 28,397 1 install emergency alert system 66,129 sf 0.60 39,677 45,932 56,335 2 replace PA systems 66,129 sf 0.50 33,065 38,276 46,946 2 Technology Safety & Security Subtotal: 223,702 274,370

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOI	R DISCUSS	SION PL	JRPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	K-5				
Higgins Elementary	Year	Built:	1995				
29901 24-Mile Road, Chesterfield, MI	Building						
Building Project Work List		Size:			1.158	Data	11/17/23
	Site	s SIZE.	17.40				11/1//23
Category				D	Direct	Total	
Subcategory	Oter	Heit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase /
Description	Qty	Unit	Unit Cost	COST	Escatation	Costs	Series
	Techno	ology &	Safety Infrastruct REMODELIN	ture Subtotal: G SUBTOTAL:	418,743 4,900,997	513,588 6,436,081	
SITE WORK							
Site Paving							
repave sw parking lot, driveways, & sidewalks including stormwater mgnt	121,600	•	10.00	1,216,000	1,407,672	1,859,985	3
repave burdi north & south parking lots, sidewalks	40,500	sqft	7.61	308,205	356,786	471,428	3
Site Improvements			Site Pa	ving Subtotal:	1,764,458	2,331,413	
upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1
upgrade playground equipment upgrade playground soft surfaces	8,000		25.00	200,000	231,525	305,919	1
replace playground pavement surfaces	36,000	•	2.00	72,000	83,349	110,131	3
replace athletic fields, exterior courts, & furnishings	2	•	75,000.00	150,000	173,644	229,439	3
replace landscaping, fences, gates, screen walls, and site furnishings	1		21,412.00	21,412	24,787	32,752	3
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	lpsm	12,500.00	12,500	14,470	19,120	3
			Site Improvem SITE WOR	nent Subtotal: K SUBTOTAL:	886,639 2,651,097	1,171,534 3,502,947	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	30	each	1,250.00	37,500	43,411	53,244	2
admin staff computers	10		1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	457	each	400.00	182,600	211,382	259,260	1
mobile device storing/charging (classroom)	25		400.00	10,000	11,576	14,198	1
mobile device storing/charging (carts)	2		1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	236,060.00	236,060	273,269	335,164	2
Audiovisual classroom AV (display, sound, PA, doc camera)	25	each	9,000.00	225,000	260,466	319,461	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,079	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
	INST	RUCTIO	NAL TECHNOLOG		950,595	1,165,905	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	12,800	14,818	18,174	1
	N	lon-Inst	tructional Equipm	nent Subtotal:	30,446	37,341	
Furniture, Furnishings & Equipment (FFE)	1	1	100 055 00	100.055	220 200	202 2/0	1
purchase furniture purchase kitchen equipment	1	•	198,855.00	198,855 62,500	230,200 72,352	282,340 95,600	1
parciase kitchen equipment	I	lpsm	62,500.00 F F	,&E Subtotal:	302,551	377,939	ı
			-	E SUBTOTAL:	332,997	415,281	
				OJECT TOTAL:	8,835,686	11,520,214	
Notes:			Permits / Gener	Contingency:	883,569 317,051		
Scope of work is conceptual and will be detailed throughout the design phase				Consultants:	752,723		
Indirect Costs include; contingency, general conditions & professional fees			— Besigi	C.M. Costs:	731,185		
garage and the second s					,		

#### **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.

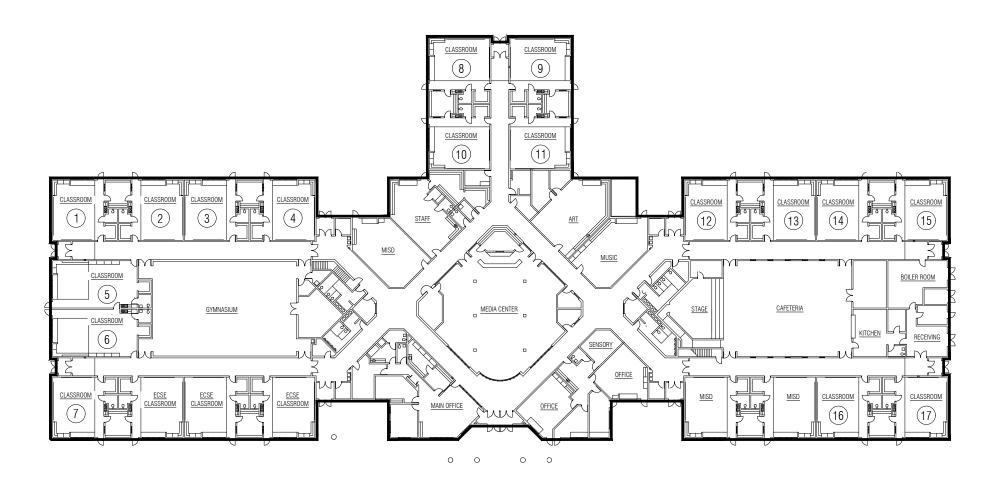
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	7	20	140
(3-5) Upper Elementary	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	17		390
	1:4		
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	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	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 434

**Utilization Percentage** 111%

(Projected 5-Year Enrollment / Total Capacity)











Lobbestsel Elementary	_obbestsel Elementary						
Proposal #:	Series 1	Series 2	Series 3	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						
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 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	645,839	389,659	1,763,098	0	2,798,596
Construction Contingencies	147,780	90,040	245,735	0	483,555
Instructional Technology	301,307	510,742	0	0	812,048
Loose Furnishing/Equipment	29,982	0	160,742	0	190,725
Buses	0	0	0	0	0
Site Work	500,673	0	533,507	0	1,034,179
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	124,935	75,038	210,310	0	410,282
CM Fees and Costs	148,667	60,542	318,308	0	527,518
Estimated Costs	1,899,183	1,126,021	3,231,699	0	6,256,903

## **Certificate by Registered Architect**

I certify that	I have assess	sed the conditions	relative to th	is facility a	ınd the	details of	of the p	oroposed	project(s)	described	above	and the
attached det	tail relative to	the construction p	project(s) are	true and c	orrect t	o the be	st of n	ny knowle	edge and b	oelief.		

4m a.4m	11/28/2023	PARTNERS in Architecture, PLC #4	4723
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 PRELIMINARY - F	OR DISCUSS	ION PL	IRPOSE ONLY		BARTO	N MALOW B	UILDER!
2024 Bond Program	Gr	ades: I	K-5				
obbestael Elementary	Year	Built: 1	1972				
38495 Prentiss, Harrison Twp, MI	Building	Size: 5	52,630				
Building Project Work List		Size: 8			1.158	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
REMODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	1	lpsm	2,500.00	2,500	2,894	3,824	3
Envelope							
replace exterior masonry	1	lpsm	41,000.00	41,000	47,463	62,713	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	12,000.00	12,000	13,892	18,355	3
replace select exterior doors	20	ea	5,500.00	110,000 ork Subtotal:	127,339 <b>217,055</b>	168,255 <b>286,799</b>	3
Interior Work			Exterior W	UIK SUDIVIAL.	217,000	200,177	
replace casework (countertops and hardware)	1	lpsm	16,500.00	16,500	19,101	25,238	3
replace drywall partitions & paint due to construction	1	lpsm	22,000.00	22,000	25,468	33,651	2
renovate toilet room & locker room	750	sqft	275.00	206,250	238,760	315,479	3
replace carpet (classrooms & corridors)	28,000	lpsm	9.00	252,000	291,722	385,457	1
replace VCT flooring (gym, cafeteria, service)	12,500	•	8.00	100,000	115,763	152,959	3
replace ceilings	1,500	•	14.00	21,000	24,310	32,121	3
renovate space for emerging programs	1,000	•	100.00	100,000	115,763	152,959	3
upgrade space for special needs program	1,000	•	75.00	75,000	86,822	114,719	1
renovate kitchen (walk-ins & serving line)	1	ea	135,000.00	135,000 ork Subtotal:	156,279 <b>1,073,987</b>	206,495 <b>1,419,080</b>	2
Mechanical Systems			micrioi W	ork Subtotut.	1,070,707	1,417,000	
Plumbing Work							
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	3
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	55,360.00	55,360	64,086	84,678	3
HVAC System							
replace classroom units, valves, and pumps	1	lpsm	243,000.00	243,000	281,303	371,691	3
replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1
Integrated Automation upgrade temperature controls	52,630	caft	6.00	315,780	365,555	483,015	3
apgrade temperature controts	32,030		Mechanical Syste	-	833,652	1,101,521	<u>J</u>
Electrical Systems					•		
Power							
upgrade electrical systems - Priority 1	1	•	2,175.00	2,175	2,518	3,327	3
electrical to support technology	27	ea	1,500.00	40,500	46,884	61,949	2
Lighting upgrade building exterior lighting	22	ea	850.00	18,700	21,648	28,603	3
upgrade classroom lighting	27,810		6.50	180,765	209,258	276,497	3
apgrade cassroom agraing	27,010	3411	Electrical Syste		280,307	370,376	
			Construct	ion Subtotal:	2,405,001	3,177,775	
Technology Infrastructure							
demo coax/legacy cables	1		7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	52,630	st ea	0.65 3,500.00	34,210 3,500	39,602 4,052	48,572 4,969	2 2
replace fiber to IDFs replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1
replace network switches - edge		ea	4,000.00	48,000	55,566	68,152	1
replace rack UPS	2		1,200.00	2,400	2,778	3,408	1
update wireless infrastructure	30	ea	1,200.00	36,000	41,675	51,114	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
Tachnalagy Safaty & Sacurity		Techn	ology Infrastruct	ure Subtotal:	187,083	229,458	
Technology Safety & Security  upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1
replace entrance intercoms	3		3,500.00	10,500	12,155	14,908	1
upgrade access control system	10		4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	52,630	sf	0.60	31,578	36,555	44,835	2
replace PA systems	52,630		0.50	26,315	30,463	37,363	2
			gy Safety & Secu		206,512	253,287	
	Techno	logy & S	Safety Infrastruct	ure Subtotal:	393,595	482,745	

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSS	ION P	URPOSE ONLY		BARTO	N MALOW B	UILDE
2024 Bond Program	Gr	ades:	K-5				
bbestael Elementary	Year	Built:	1972				
38495 Prentiss, Harrison Twp, MI	Building	Size:	52,630				
Building Project Work List		Size:			1.158	Date:	11/17/2
<u> </u>	Sitt	JIZC.	0.00				11/1//2
egory				Discot	Direct	Total	Dhaa
subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase Serie
Description	uty	Ollic	Offic Cost	CUST	Escatation	CUSIS	36116
			REMODELIN	G SUBTOTAL:	2,798,596	3,660,520	
E WORK							
ite Paving							
repave bus loop, new concrete drives and UG stormwater structures	6,200	•	19.09	118,358	137,014	181,040	3
repave parking lots, replace sidewalks	33,500	sqft	7.83	262,305	303,651	401,220	3
the large control of the control of			Site Pav	ing Subtotal:	440,665	582,259	
ite Improvements upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1
upgrade playground equipment upgrade playground soft surfaces	7,300	•	250,000.00	182,500	269,406	279,151	1
replace playground pavement surfaces	7,300	lpsm	10,000.00	102,300	11,576	15,296	3
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	5,200.00	5,200	6,020	7,954	3
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	7,734 91,776	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	3
apuate storage ractities	·	срэпп	Site Improvem	•	593,514	784,222	
			•	K SUBTOTAL:	1,034,179	1,366,482	
TRUCTIONAL TECHNOLOGY							
omputers and Mobile Devices							
teacher computers (desktop + 1:1 device)	29	each	1,250.00	36,250	41,964	51,469	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	327	each	400.00	130,680	151,278	185,543	1
mobile device storing/charging (classroom)	24	each	400.00	9,600	11,113	13,630	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	178,948.00	178,948	207,155	254,075	2
udiovisual							
classroom AV (display, sound, PA, doc camera)	24	each	9,000.00	216,000	250,047	306,683	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
	INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	812,048	995,977	
NITURE, FURNISHINGS AND EQUIPMENT							
on-Instructional Equipment			0.500.00	2 - 2 - 2			
purchase plotters		ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00 tructional Equipm	12,400	14,355 <b>29,982</b>	17,606 <b>36,774</b>	<u> </u>
urniture, Furnishings & Equipment (FFE)	ŗ	1115	a actional Equipm	icin Subtotal.	27,702	30,774	
purchase furniture	1	lpsm	138,855.00	138,855	160,742	197,150	3
•				,&E Subtotal:	160,742	197,150	
				E SUBTOTAL:	190,725	233,924	
			DDC	DJECT TOTAL:	4,835,548	6,256,903	
				Contingency:	<b>4,835,548</b> 483,555	0,230,703	
es:			Permits / General		151,324		
es: cope of work is conceptual and will be detailed throughout the design phase				al Conditions: Consultants:	410,282		
ndirect Costs include; contingency, general conditions & professional fees			besign	C.M. Costs:	376,194		
ndirect I acts incline, continuency, deneral conditions X, professional toos							

#### **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.

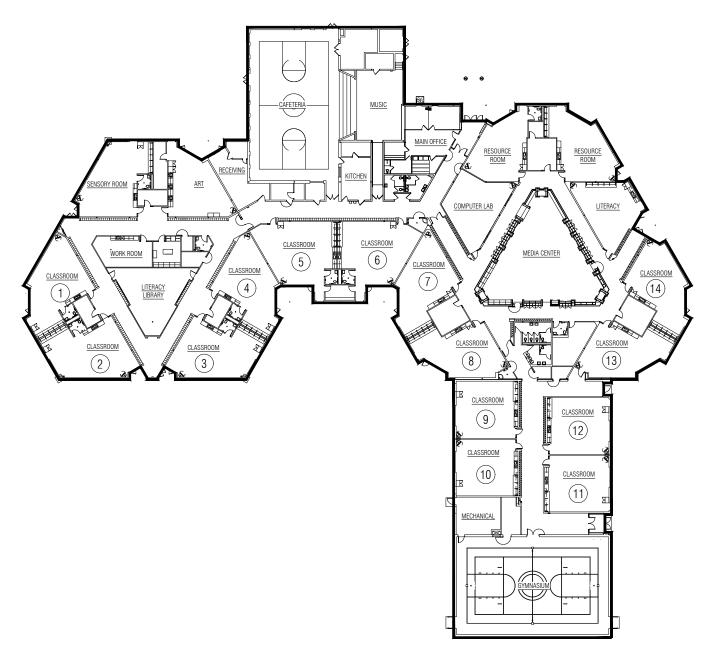
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	6	20	120
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	14		320
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	_		Capacity 0
•	Stations	Factor	
(K-2) Lower Elementary	Stations 0	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Stations 0 0	Factor 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 350

Utilization Percentage 109%

(Projected 5-Year Enrollment / Total Capacity)











South River Elementary	Project No. [n]	7					
Proposal #:	Series 1	Series 2	Series 3	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						
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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	258,035	215,801	2,877,145	0	3,350,981
Construction Contingencies	70,323	141,279	431,539	0	643,142
Instructional Technology	414,291	657,737	0	0	1,072,028
Loose Furnishing/Equipment	30,909	0	276,505	0	307,413
Buses	0	0	0	0	0
Site Work	0	539,251	1,161,744	0	1,700,994
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	58,131	118,501	369,348	0	545,980
CM Fees and Costs	34,121	116,124	559,516	0	709,761
Estimated Costs	865,810	1,788,692	5,675,797	0	8,330,299

#### **Certificate by Registered Architect**

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

4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #44723	
Signature	Date	Firm Name and License Number	
Michael A. Malone, AIA Printed Name	mmalone@partner	rsinarch.com 586-469-3600 Phone Number	
Printed Name	E-mail Address	Phone Number	

#### L'ANSE CREUSE PUBLIC SCHOOLS **PRELIMINARY - FOR DISCUSSION PURPOSE ONLY BARTON MALOW BUILDERS** 2024 Bond Program Grades: K-5 **South River Elementary** Year Built: 2007 27733 South River Road, Harrison Twp, MI Building Size: 71,561 **Building Project Work List** Site Size: 10.00 1.158 Date: 11/17/23 Category Direct Total Subcategory Direct w/ w/Indirect Phase / Description Qtv Unit **Unit Cost Escalation** Costs Cost Series REMODELING WORK **Exterior Work** Roofing 12,600 sqft 25.00 315,000 481,822 roof work - priority 1 364,652 3 Envelope 37,700.00 37,700 43,642 3 replace exterior masonry 1 lpsm 57,666 22,000.00 22,000 25,468 33,651 3 upgrade select exterior glazing lpsm 4,900.00 4,900 5,672 7,495 3 replace select exterior envelop materials 1 lpsm replace select exterior doors 5,500.00 126,500 146,440 193,494 3 23 ea Exterior Work Subtotal: 585,874 774,127 Interior Work replace casework (countertops and hardware) lpsm 15,000.00 15,000 17,364 22,944 3 25,000.00 25,000 28,941 38,240 3 replace interior openings lpsm replace drywall partitions & paint due to construction 1 lpsm 40,000.00 40,000 46,305 61,184 3 220,000 336,510 toilet room & locker room renovation 800 sqft 275.00 254,678 3 30,000 270,000 312,559 412,990 3 replace carpet (classrooms, media center, offices) lpsm 9.00 replace VCT flooring (gym, cafeteria, service) 4,000 sqft 8.00 32,000 37,044 48,947 3 100.00 100,000 115,763 152,959 renovate space for emerging programs 1,000 sqft 3 1,000 sqft upgrade space for special needs program 75.00 75,000 86,822 114,719 3 1,188,494 Interior Work Subtotal: 899,475 607,057 (581,437) Mechanical Systems 497,118 Plumbing Work replace water heater, pump, water bottle filler, grease trap, & valves 1 lpsm 76,000.00 76,000 87,980 116,249 3 select replace toilet room sink, toilet, & urinal bodies lpsm 40,340.00 40,340 46,699 61,704 3 **HVAC System** replace select roof top units, classroom units, one boiler, & select valves 1 lpsm 433,598.00 433,598 501,944 663,228 3 15,000.00 30,000 replace mdf/idf air conditioning 2 ea 34,729 45,888 **Integrated Automation** upgrade temperature controls 71,473 sqft 6.00 428,838 496,434 655,948 3 Mechanical Systems Subtotal: 1,167,784 1,543,017 **Electrical Systems** Power 29 ea 2 1,500.00 43,500 50,357 electrical to support technology 66,537 Liahtina 21 ea 850.00 3 upgrade building exterior lighting 17,850 20,664 27,303 31,640 sqft upgrade classroom lighting 6.50 205,660 238.077 314,576 3 **Electrical Systems Subtotal:** 309,097 408,417 **Construction Subtotal:** 2,962,230 3,914,054 **Technology Infrastructure** data cabling for renovations 10,000.00 10,000 11,576 14,198 2 1 ea 2 demo coax/legacy cables 1 lpsm 7,500.00 7,500 8,682 10,649 4,969 4,052 replace fiber to IDFs 3,500.00 3,500 2 1 ea replace network switches - core/aggregate 1 5,000.00 5,000 5,788 7,099 1 ea replace network switches - edge 10 4,000.00 40,000 46,305 56,793 ea 1 2,400 replace rack UPS 2 ea 1,200.00 2,778 3,408 1 1,200.00 50,009 43,200 61,337 2 update wireless infrastructure 36 ea upgrade phone system lpsm 25,000.00 25,000 28,941 35,496 Technology Infrastructure Subtotal: 158,132 193,948 **Technology Safety & Security** 30 ea 52,093 upgrade security camera system 1,500.00 45,000 63,892 1 10,500 14,908 replace entrance intercoms 3 ea 3,500.00 12,155 1 52,093 63,892 upgrade access control system 10 ea 4,500.00 45,000 1 20,000 20,000.00 23,153 28,397 upgrade access control headend 1 lpsm 1 71,561 sf 42,937 49,704 60,963 2 0.60 install emergency alert system replace PA systems 71 561 0.50 35,781 41,420 50,802 2 Technology Safety & Security Subtotal: 230.619 282.854 Technology & Safety Infrastructure Subtotal: 388.750 476.802 REMODELING SUBTOTAL: 3,350,981 4,390,856

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSS	SION PL	IRPOSE ONLY		BARTO	N MALOW B	<b>UILDERS</b>
2024 Bond Program	Gr	ades:	K-5				
South River Elementary	Year	Built: :	2007				
27733 South River Road, Harrison Twp, MI	Building						
					1 150		11/17/00
Building Project Work List	Site	Size:	10.00		1.158		11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
SITE WORK							
Site Paving							
replace site paving - priority 1 (include UG stormwater structure)	47,300		14.18	670,714	776,435	1,025,919	3
replace site paving - priority 2	62,300	sqft	3.28	204,344	236,554	312,563	3
			Site Pav	ring Subtotal:	1,012,989	1,338,483	
Site Improvements	1	1	250,000,00	250,000	200 /0/	202 200	2
upgrade playground equipment	1 8,633		250,000.00	250,000	289,406	382,398	2 2
upgrade playground soft surfaces			25.00	215,825	249,844	330,124	3
replace playground pavement surfaces	31,000	•	1.00	31,000	35,886	47,417	
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	17,600.00	17,600	20,374	26,921	3
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	lpsm	19,900.00	19,900	23,037	30,439	3
			Site Improvem SITE WOR	K SUBTOTAL:	688,005 1,700,994	909,075 2,247,558	
INCTRICTIONAL TECHNOLOGY						, ,	
INSTRUCTIONAL TECHNOLOGY  Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	31	each	1,250.00	38,750	44,858	55,018	2
admin staff computers	10		1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	569	each	400.00	227,480	263,337	322,982	1
mobile device storing/charging (classroom)	26	each	400.00	10,400	12,039	14,766	1
mobile device storing/charging (casts)	2		1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	285,428.00	285,428	330,419	405,258	2
Audiovisual	•	4110	200) 120.00	2007.20	555,	.00,200	-
classroom AV (display, sound, PA, doc camera)	26	each	9,000.00	234,000	270,884	332,240	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
acrotorial stage in System			NAL TECHNOLOG		1,072,028	1,314,842	•
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1		10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	33	each	400.00	13,200	15,281	18,742	1
	N	lon-Inst	ructional Equipm	ent Subtotal:	30,909	37,909	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1	•	183,855.00	183,855	212,835	261,042	3
purchase kitchen equipment	1	lpsm	55,000.00	55,000	63,669	78,090	3
				,&E Subtotal: E SUBTOTAL:	276,505 307,413	339,133 377,042	
				JECT TOTAL:	6,431,416	8,330,299	
Materia			Construction		643,142		
Notes:			Permits / Genera		205,182		
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	545,980		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	504,579		

#### **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.

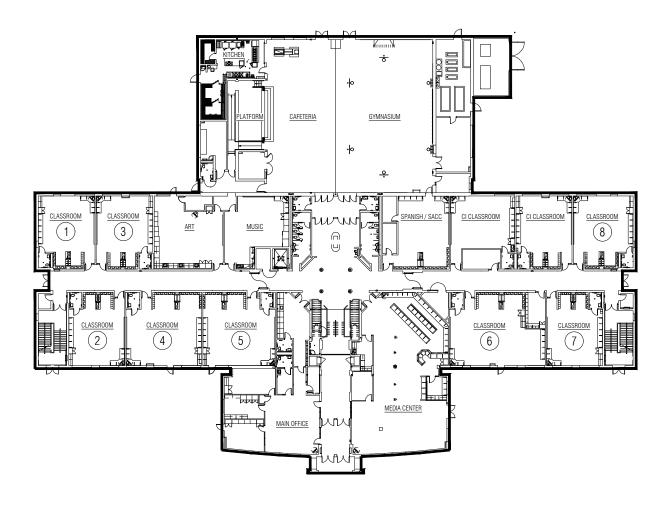
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	8	20	160
(3-5) Upper Elementary	10	25	250
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	18		410
	1:-1# -6		
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower 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	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** 110%

(Projected 5-Year Enrollment / Total Capacity)

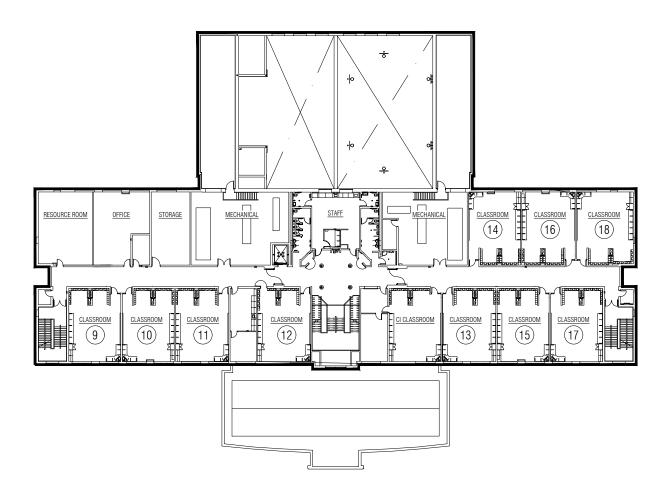






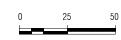














Tenniswood Elementary	Project No. [n]	8			
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
	New addition	New addition	New addition	New addition	
The associated Cost	✓ Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For multiple 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.
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	✓ Energy efficiencies	ADA requirements		
Other - please list:	1.	2.	3.		

## **Estimated Cost of Proposed Construction Project**

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	705,225	413,023	1,849,769	0	2,968,017
Construction Contingencies	159,075	100,526	238,928	0	498,529
Instructional Technology	327,839	528,572	0	0	856,411
Loose Furnishing/Equipment	29,519	63,669	160,742	0	253,931
Buses	0	0	0	0	0
Site Work	528,166	0	378,766	0	906,933
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	134,540	83,971	204,470	0	422,981
CM Fees and Costs	161,588	72,996	309,084	0	543,668
Estimated Costs	2,045,954	1,262,758	3,141,758	0	6,450,470

## **Certificate by Registered Architect**

I certify that	I have assess	sed the conditions	s relative to th	nis facility a	and the	details o	of the p	oroposed	project(s)	described	above	and the
attached det	tail relative to	the construction	project(s) are	true and	correct t	o the be	st of m	ny knowle	edge and b	elief.		

4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #44	723
Signature	Date	Firm Name and License N	lumber
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

#### L'ANSE CREUSE PUBLIC SCHOOLS **PRELIMINARY - FOR DISCUSSION PURPOSE ONLY BARTON MALOW BUILDERS** 2024 Bond Program Grades: K-5 Tenniswood Elementary Year Built: 1973 27733 Glenwood, Clinton Twp, MI Building Size: 52,620 **Building Project Work List** Site Size: 8.07 1.158 Date: 11/17/23 Category Direct Total Subcategory Direct w/ w/Indirect Phase / Description Qtv Unit **Unit Cost Escalation** Costs Cost Series REMODELING WORK **Exterior Work** Roofing 4,550.00 4,550 6,960 roof work - priority 1 1 lpsm 5,267 3 Envelope 73,240.00 73,240 84,784 112,027 3 relace exterior masonry 1 lpsm 22,000.00 22,000 25,468 33,651 3 upgrade select exterior glazing lpsm 12,100 14,007 12,100.00 18,508 3 replace select exterior envelop materials 1 lpsm replace select exterior doors 35 ea 5,500.00 192,500 222,843 294.447 3 Exterior Work Subtotal: 352,369 465,593 Interior Work replace drywall partitions & paint due to construction 1 lpsm 27,500.00 27,500 31,835 42,064 2 renovate toilet room & locker room 750 sqft 275.00 206,250 238,760 315,479 3 replace carpet (classrooms & corridors) 33,700 lpsm 9.00 303,300 351,108 463,926 1 replace VCT flooring (gym, cafeteria, service) 12,800 sqft 8.00 102,400 118,541 156,630 3 100,000 152,959 renovate space for emerging programs 1,000 sqft 100.00 115,763 3 86,822 114,719 upgrade space for special needs program 1,000 sqft 75.00 75,000 renovate kitchen (walk-ins & serving line) 150,000.00 150,000 229,439 1 lpsm 173,644 2 Interior Work Subtotal: 1,116,471 1,475,216 Mechanical Systems **Plumbing Work** 76,000.00 76,000 87,980 116,249 replace water heater, pump, water bottle filler, grease trap, & valves 1 lpsm 3 select replace toilet room sink, toilet, & urinal bodies 41,240.00 41,240 47,740 63,080 3 1 lpsm **HVAC System** select roof top units, classroom units, valves, pumps, & select piping 241,585.00 241,585 279,665 369,527 3 1 lpsm 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 sqft 6.00 315,720 365,485 482,923 3 Mechanical Systems Subtotal: 815,599 1,077,667 **Electrical Systems Power** upgrade electrical systems - priority 1 1 lpsm 10.000.00 10,000 11,576 15,296 3 1,500.00 39,000 electrical to support technology 26 45,147 59,654 2 ea Liahtina upgrade building exterior lighting 23 each 850.00 19,550 22,632 29,904 3 upgrade classroom lighting 27,810 sqft 6.50 180,765 209,258 276,497 3 **Electrical Systems Subtotal:** 288,613 381,350 **Construction Subtotal:** 2,573,053 3,399,827 **Technology Infrastructure** demo coax/legacy cables lpsm 7,500.00 7,500 8,682 10,649 2 52,620 sf 2 replace cabling infrastructure 0.65 34,203 39,594 48,562 3.500.00 3,500 4,969 replace fiber to IDFs 4,052 2 1 ea 5,000.00 replace network switches - core/aggregate 1 ea 5,000 5,788 7,099 1 replace network switches - edge 12 4,000.00 48,000 55,566 68,152 1 ea replace rack UPS 2 ea 1,200.00 2,400 2,778 3,408 1 31 ea 1,200.00 37,200 43,064 52,818 2 update wireless infrastructure upgrade phone system lpsm 25,000.00 25.000 28,941 35.496 Technology Infrastructure Subtotal: 188,465 231,152 **Technology Safety & Security** 1,500.00 45,000 52,093 upgrade security camera system 30 ea 63,892 1 14,908 replace entrance intercoms 3.500.00 10,500 12.155 1 3 ea 63,892 10 4,500.00 45,000 52,093 1 upgrade access control system ea 20,000 20,000.00 23,153 28,397 1 upgrade access control headend 1 lpsm 31,572 36,549 44,827 2 install emergency alert system 52,620 sf 0.60 replace PA systems 52 620 0.50 26 310 30,457 37,356 2 Technology Safety & Security Subtotal: 206,499 253,272 Technology & Safety Infrastructure Subtotal: 394,964 484,424 REMODELING SUBTOTAL: 2,968,017 3,884,250

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSS	ION PL	JRPOSE ONLY		BARTO	N MALOW B	UILDER
2024 Bond Program	Gr	ades:	K-5				
Tenniswood Elementary	Year	Built:	1973				
27733 Glenwood, Clinton Twp, MI	Building						
					1 150		11/17/00
Building Project Work List	Site	Size:	8.07		1.158		11/17/23
ategory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
TE WORK							
Site Paving							
replace sidewalks	3,750	sqft	12.35	46,313	53,613	70,839	3
replace parking lots and bus loop	54,000	sqft	3.72	200,880	232,544	307,265	3
			Site Pav	ring Subtotal:	286,156	378,104	
Site Improvements				252 222			
upgrade playground equipment	1		250,000.00	250,000	289,406	382,398	1
upgrade playground soft surfaces	8,250	•	25.00	206,250	238,760	315,479	1
replace playground pavement surfaces	6,000	•	1.00	6,000	6,946	9,178	3
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	9,000.00	9,000	10,419	13,766	3
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	3
			Site Improvem	ent Subtotal:	620,776	820,244	
			SITE WOR	K SUBTOTAL:	906,933	1,198,348	
STRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	28	each	1,250.00	35,000	40,517	49,694	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	385	each	400.00	154,000	178,274	218,653	1
mobile device storing/charging (classroom)	23	each	400.00	9,200	10,650	13,062	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	204,600.00	204,600	236,850	290,497	2
Audiovisual			•	•	,	·	
classroom AV (display, sound, PA, doc camera)	23	each	9,000.00	207,000	239,628	293,904	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
colotona, otago xxx o jota			NAL TECHNOLOG		856,411	1,050,388	•
JRNITURE, FURNISHINGS AND EQUIPMENT					·	<u> </u>	
Non-Instructional Equipment purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1		10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	12,000	13,892	17,038	1
	N	lon-Inst	tructional Equipm	ent Subtotal:	29,519	36,206	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1	lpsm	138,855.00	138,855	160,742	197,150	3
purchase kitchen equipment	1	lpsm	55,000.00	55,000	63,669	84,128	2
			F,F,	,&E Subtotal:	224,411	281,278	
			F, F, &	E SUBTOTAL:	253,931	317,483	
			PRO	JECT TOTAL:	4,985,292	6,450,470	
				Contingency:	498,529		
otes:			Permits / Genera		155,921		
Scope of work is conceptual and will be detailed throughout the design phase				Consultants:	422,981		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	387,747		
The state of containing array, general containions a professional recs			DIIII	DING TOTAL:	6,450,470		

#### **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.

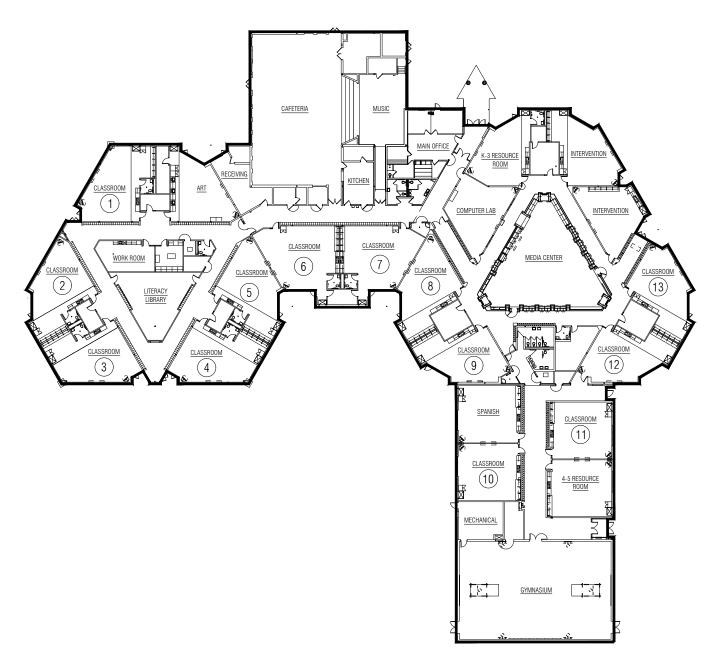
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300
	List # of	Capacity	
Proposed New	Teaching Stations	Factor	Capacity
Proposed New (K-2) Lower Elementary			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 330

**Utilization Percentage 110%** 

(Projected 5-Year Enrollment / Total Capacity)











Yacks Elementary				Project No. [n]	9
Proposal #:	Series 1	Series 2	Series 3	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				
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	j 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	641,903	808,476	2,142,715	0	3,593,095
Construction Contingencies	150,547	137,509	327,112	0	615,167
Instructional Technology	310,799	566,609	0	0	877,408
Loose Furnishing/Equipment	31,835	0	160,742	0	192,577
Buses	0	0	0	0	0
Site Work	520,931	0	967,659	0	1,488,590
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	127,251	115,532	280,131	0	522,915
CM Fees and Costs	150,828	118,403	428,591	0	697,821
Estimated Costs	1,934,094	1,746,529	4,306,949	0	7,987,572

## **Certificate by Registered Architect**

I certify that	I have assesse	ed the conditions	relative to th	is facility a	and the	details c	of the p	proposed	project(s)	described	above	and the
attached det	ail relative to the	he construction p	project(s) are	true and c	correct t	o the be	st of m	ny knowle	edge and b	elief.		

4m 0.4m	11/28/2023	PARTNERS in Architecture, PLC #4	44723
Signature	Date	Firm Name and License	e 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	OR DISCUSS	ION PU	IRPOSE ONLY		BARTO	N MALOW B	UILDE
2024 Bond Program	Gr	ades: k	<b>K-5</b>				
acks Elementary	Year	Built: 1	1976				
34700 Union Lake Road, Harrison Twp, MI	Building						
					4.450		44/47/
Building Project Work List	Site	Size: 9	9.97		1.158	Date:	11/17/
едогу					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phas
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Seri
MODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	1	lpsm	5,500.00	5,500	6,367	8,413	3
Envelope		·					
replace exterior masonry	1	lpsm	82,500.00	82,500	95,504	126,191	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	200,200.00	200,200	231,757	306,225	3
replace select exterior doors	43	ea	5,500.00	236,500	273,778	361,749	3
			Exterior W	ork Subtotal:	632,874	836,229	
nterior Work							
replace drywall partitions & paint due to construction	1		50,000.00	50,000	57,881	76,480	2
renovate toilet room & locker room	750		275.00	206,250	238,760	315,479	3
replace carpet (classrooms & corridors)	25,377	lpsm	9.00	228,400	264,402	349,359	1
replace VCT flooring (gym, cafeteria, service)	13,650	•	8.00	109,200	126,413	167,032	3
replace architectural trim out/specialties		lpsm	10,000.00	10,000	11,576	15,296	3
renovate space for emerging programs	1,000	•	100.00	100,000	115,763	152,959	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	1
renovate kitchen (walk-ins & serving line)	1	lpsm	450,000.00	450,000	520,931	688,317	2
Assistant and a second			Interior W	ork Subtotal:	1,422,547	1,879,640	
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	3
select replace toilet room sink, toilet, & urinal bodies	1	•	40,840.00	40,840	67,760 47,277	•	3
·	'	lpsm	40,040.00	40,640	47,277	62,469	3
HVAC System	1	Inon	202 /02 00	202 / 02	225 547	211 240	3
select roof top units and classroom units, pumps, & valves replace mdf/idf air conditioning	1	lpsm ea	203,492.00	203,492	235,567	311,260	ა 1
,	3	еа	15,000.00	45,000	52,093	68,832	1
Integrated Automation upgrade temperature controls	56,567	0.2	6.00	339,402	392,900	519,147	3
upgrade temperature controts	30,307		Mechanical Syste		815,818	1,077,956	3
Electrical Systems		'	. reemanieur Syste	iiio oubtotuti	0.0,0.0	1,077,700	
Power							
upgrade electrical systems - priority 1	1	lpsm	4,350.00	4,350	5,036	6,654	3
electrical to support technology	31	ea	1,500.00	46,500	53,830	71,126	2
Lighting							
upgrade building exterior lighting	24	ea	850.00	20,400	23,616	31,204	3
upgrade classroom lighting	29,896	sqft	6.50	194,324	224,954	297,237	3
			Electrical Syste	ms Subtotal:	307,435	406,220	
			Construct	ion Subtotal:	3,178,674	4,200,045	
echnology Infrastructure			7.500.00	7.500		10.440	
demo coax/legacy cables		lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	56,567		0.65	36,769	42,564	52,205	2
replace fiber to IDFs	2		3,500.00	7,000	8,103	9,939	2
replace network switches - core/aggregate	1 13	ea	5,000.00 4,000.00	5,000 52,000	5,788 40.197	7,099	1
replace network switches – edge replace rack UPS	3	ea ea	4,000.00 1,200.00	52,000 3,600	60,197 4,167	73,831 5,111	1 1
update wireless infrastructure	32	ea	1,200.00	38,400	4,107	54,521	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
apg. ade priorie ayatem			ology Infrastruct		202,895	248,851	
echnology Safety & Security			<b>3,</b>		,		
upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	56,567	•	0.60	33,940	39,290	48,189	2
replace PA systems	56,567		0.50	28,284	32,742	40,158	2
· · · · · · · · · · · · · · · · · · ·			gy Safety & Secu		211,526	259,436	
			Safety Infrastruct		414,421	508,287	

L'ANSE CREUSE PUBLIC SCHOOLS PRELI	MINARY - FOR DISCUSS	ION P	JRPOSE ONLY		BARTON MALOW BUIL		UILDERS
2024 Bond Program	Gr	ades:	K-5				
racks Elementary	Year	Built:	1976				
34700 Union Lake Road, Harrison Twp, MI	Building						
					4.450	5 .	44.447.400
Building Project Work List	Site	Size:	9.97		1.158	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
			REMODELIN	SUBTOTAL:	3,593,095	4,708,332	
SITE WORK							
Site Paving							
repave south lot	39,000	•	12.04	469,560	543,574	718,236	3
repave north lot, drop off loop, and sidewalks	24,600	sqft	7.90	194,340	224,973	297,261	3
et a la companya de l			Site Pav	ing Subtotal:	768,547	1,015,497	
Site Improvements	1	Inom	350,000,00	350,000	200 / 0/	202 200	1
upgrade playground equipment upgrade playground soft surfaces	8,000	lpsm sqft	250,000.00 25.00	250,000 200,000	289,406 231,525	382,398 305,919	1 1
upgrade playground soft surfaces replace playground pavement surfaces	8,000 27,000	•	25.00 1.00	200,000	231,525 31,256	305,919 41,299	3
, , , , , , , , , , , , , , , , , , , ,	•	•					
replace athletic fields, exterior courts, & furnishings	1	lpsm	80,000.00	80,000	92,610	122,367	3
upgrade site sign - digital update storage facilities	1	lpsm lpsm	60,000.00 5,000.00	60,000 5,000	69,458 5,788	91,776	3 3
upuate storage racitites	ı	грын	Site Improvem	•	720,043	7,648 <b>951,407</b>	<u> </u>
			•	K SUBTOTAL:	1,488,590	1,966,904	
NSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	33	each	1,250.00	41,250	47,752	58,568	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2
student desktops	40	each	800.00	32,000	37,044	45,434	1
mobile devices: k-5 (iPads)	343	each	400.00	137,280	158,919	194,914	1
mobile device storing/charging (classroom)	28	each	400.00	11,200	12,965	15,902	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	186,208.00	186,208	215,559	264,383	2
Audiovisual							
classroom AV (display, sound, PA, doc camera)	28	each	9,000.00	252,000	291,722	357,796	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	1
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	1
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	1
cafeteria/stage AV system	1	each	40,000.00	40,000	46,305	56,793	1
	INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	877,408	1,076,141	
URNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment	1	0.2	3,500.00	2 EUU	/. NE2	/. 040	1
purchase plotters purchase STEM / robotics equipment	1		3,500.00 10,000.00	3,500 10,000	4,052 11,576	4,969 14,198	1
purchase radio / walkie-talkies		each	400.00	14,000	16,207	19,878	1
parendoctado, wante tantes			tructional Equipm		31,835	39,045	
Furniture, Furnishings & Equipment (FFE)			100 0	400	a /		
purchase furniture	1	lpsm	138,855.00	138,855	160,742	197,150	3
				&E Subtotal: E SUBTOTAL:	160,742 192,577	197,150 236,195	
				JECT TOTAL:	6,151,669	7,987,572	
			Construction		615,167		
otes:			Permits / Genera		205,360		
Scope of work is conceptual and will be detailed throughout the de.	sian phase			Consultants:	522,915		
Indirect Costs include; contingency, general conditions & profession				C.M. Costs:	492,462		
general containing a profession			BUIL	DING TOTAL:	7,987,572		

LIANCE ORGUCE BURLIO COULO

#### **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.

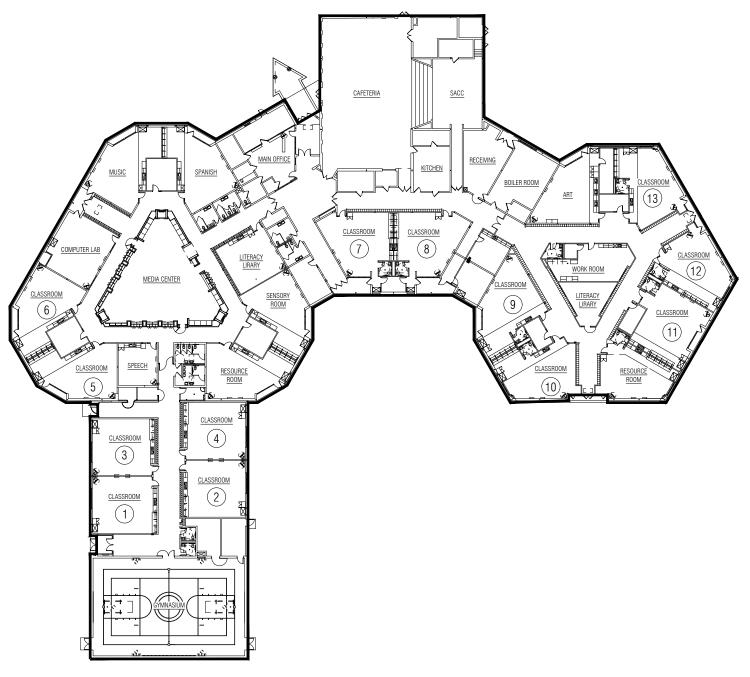
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	5	20	100
(3-5) Upper Elementary	8	25	200
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	13		300
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary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











Middle School Central				Project No. [n]	10
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	9
	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	j environmental or us	sability 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	579,391	1,769,247	4,391,577	0	6,740,215
Construction Contingencies	97,719	473,780	467,387	0	1,038,886
Instructional Technology	356,699	1,064,984	0	0	1,421,683
Loose Furnishing/Equipment	41,096	309,086	212,835	0	563,017
Buses	0	0	0	0	0
Site Work	0	1,594,483	69,458	0	1,663,941
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	81,661	401,617	401,018	0	884,296
CM Fees and Costs	71,919	506,554	633,403	0	1,211,876
Estimated Costs	1,228,485	6,119,751	6,175,677	0	13,523,913

#### **Certificate by Registered Architect**

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

) are true and correct	to the best of my knowledge and belief.	
11/28/2023	PARTNERS in Architecture, PLC #447	723
Date	Firm Name and License Nu	ımber
	sinarch.com	586-469-3600
E-mail Address		Phone Number
	11/28/2023 Date mmalone@partner	Date Firm Name and License Nummalone@partnersinarch.com

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO					DAIRTO	N MALOW B	ALL DE
2024 Bond Program			6-8				
liddle School Central		Built:					
3800 Reimold Road, Harrison Twp, MI	Building	Size:	101,828				
Building Project Work List	Site	Size:	13.33		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MODELING WORK							
Exterior Work							
Roofing							
replace select gutters & downspouts	1	lpsm	2,000.00	2,000	2,315	3,059	2
Envelope							
replace exterior masonry	1	lpsm	159,242.86	159,243	184,344	243,577	2
replace exterior steel lintels	1	lpsm	50,000.00	50,000	57,881	76,480	2
upgrade select exterior glazing	1	lpsm	38,050.00	38,050	44,048	58,201	2
replace select exterior envelop materials reroute roof overflow drainage	1	lpsm lpsm	77,000.00 9,900.00	77,000 9,900	89,137 11,460	117,779 15,143	2
replace EIFS with metal panels	5,015	sqft	7,700.00	351,050	406,384	536,964	2
replace select exterior doors	36	ea	5,500.00	198,000	229,210	302,859	1
				ork Subtotal:	1,024,779	1,354,061	•
Interior Work							
replace casework (countertops and hardware)	1	lpsm	135,000.00	135,000	156,279	206,495	3
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	3
replace drywall partitions & paint due to construction	1	lpsm	40,000.00	40,000	46,305	61,184	2
renovate toilet room & locker room	800	sqft	275.00	220,000	254,678	336,510	3
replace carpet (band and choir and select classrooms)	29,015	sf	9.00	261,100	302,256	399,377	3
replace VCT flooring (cafeteria, music, science, & art) replace architectural trim out/specialties	12,000 1	sf lpsm	8.00 25,000.00	96,000 25,000	111,132 28,941	146,841 38,240	3
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	3
renovate kitchen (walk-ins & serving line)	•	lpsm	373,000.00	373,000	431,794	570,538	2
			· · · · · · · · · · · · · · · · · · ·	ork Subtotal:	1,678,672	2,218,063	
Mechanical Systems							
Plumbing Work							
replace water heater, pump, water bottle filler, grease trap, $\&$ valves	1	lpsm	155,000.00	155,000	179,432	237,087	3
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	51,100.00	51,100	59,155	78,162	3
HVAC System			1 (00 00 ( 11	1 (00 00)	1 070 700	0.400.410	•
replace roof top units and classroom units, valves, pumps, & piping	I	lpsm	1,622,924.11	1,622,924	1,878,738	2,482,413	3
replace mdf/idf air conditioning Integrated Automation	5	ea	15,000.00	75,000	86,822	114,719	1
upgrade temperature control system	101,828	saft	6.00	610,968	707,272	934,532	3
apgrade temperature controcsystem	101,020	_	Mechanical Syste		2,911,418	3,846,914	<u> </u>
Electrical Systems			,		_,,	-,,	
Power							
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	2
Lighting							
upgrade building exterior lighting	35	ea	850.00	29,750	34,439	45,505	3
upgrade classroom lighting	44,118	sqft	6.50	286,767	331,969	438,637	3
			Electrical Syste	tion Subtotal:	446,284 6,061,153	589,684 8,008,723	
Technology Infrastructure			Constitut	tion Subtotat.	0,001,133	0,000,723	
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	101,828	•	0.65	66,188	76,621	93,976	2
replace fiber to IDFs	4	ea	3,500.00	14,000	16,207	19,878	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	23	ea	4,000.00	92,000	106,502	130,624	1
	1	ea	10,000.00	10,000	11,576	14,198	1
network switches - multigig		ea	1,200.00	6,000	6,946	8,519	1
replace rack UPS	5			74,400	86,127	105,635	2
replace rack UPS update wireless infrastructure	62	ea	1,200.00				-
replace rack UPS		lpsm	35,000.00	35,000	40,517	49,694	1
replace rack UPS update wireless infrastructure upgrade phone system	62	lpsm		35,000			1
replace rack UPS update wireless infrastructure upgrade phone system  Technology Safety & Security	62	lpsm <b>Tech</b> r	35,000.00 nology Infrastruct	35,000 ture Subtotal:	40,517 <b>366,490</b>	49,694 <b>449,500</b>	
replace rack UPS update wireless infrastructure	62	lpsm	35,000.00	35,000	40,517	49,694	2

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	OR DISCUSS	SION P	JRPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	6-8				
Middle School Central	Year	Built:	1957				
3800 Reimold Road, Harrison Twp, MI	Building						
Building Project Work List		Size:			1.158	Date:	11/17/23
	Site	JIZE.	13.33				11/1//25
Category				Discort	Direct w/	Total	Dhara /
Subcategory  Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase / Series
	u.,	Oilit	Omit Gust	0031	Escatation	00313	501105
upgrade access control headend		lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	101,828		0.60	61,097	70,727	86,747	2
replace PA systems	101,828 <b>T</b>		0.50 ogy Safety & Secu	50,914	58,939 <b>312,571</b>	72,289 <b>383,369</b>	2
			Safety Infrastruct	-	679,062	832,869	
	10011110	nog, u	•	G SUBTOTAL:	6,740,215	8,841,592	
SITE WORK							
Site Paving							
repave lots, sidewalks, and new UG stormwater structures	180,100	sqft	7.37	1,327,453	1,536,693	2,030,464	2
replace curbs and concrete slabs	1	lpsm	36,161.30	36,161	41,861	55,312	2
			Site Pav	ing Subtotal:	1,578,554	2,085,776	
Site Improvements	1		0.770.00	0.770	0.70/	10.070	2
replace fences, gates, screen walls, and site furnishings	1	•	8,460.00	8,460	9,794	12,940	2
upgrade site sign - digital update storage facilities	1	lpsm lpsm	60,000.00 5,300.00	60,000 5,300	69,458 6,135	91,776 8,107	3 2
update storage ractities	- 1	грын	Site Improvem		85,386	112,823	Z
			•	K SUBTOTAL:	1,663,941	2,198,598	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2
student desktops	101	each	800.00	80,800	93,536	114,722	1
mobile devices: 6-12	592		350.00	207,130	239,779	294,089	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2 Audiovisual	1	allo	316,723.00	316,723	366,646	449,692	2
classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
large group sound systems	3		30,000.00	90,000	104,186	127,784	2
	INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	1,421,683	1,743,694	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters		ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	22,000	25,468	31,236	1
Furniture, Furnishings & Equipment (FFE)	N	lon-Ins	tructional Equipm	ient Subtotal:	41,096	50,404	
purchase furniture	1	lpsm	183,855.00	183,855	212,835	281,223	3
purchase kitchen equipment		lpsm	267,000.00	267,000	309,086	408,401	2
· · · · · · · · · · · · · · · · · · ·		•	•	,&E Subtotal:	521,921	689,625	
			F, F, &	E SUBTOTAL:	563,017	740,029	
			PRO	DJECT TOTAL:	10,388,855	13,523,913	
			Construction	Contingency:	1,038,886		
Notes:			Permits / General		362,869		
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	884,296		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	849,008		
			BUIL	DING TOTAL:	13,523,913		

#### **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.

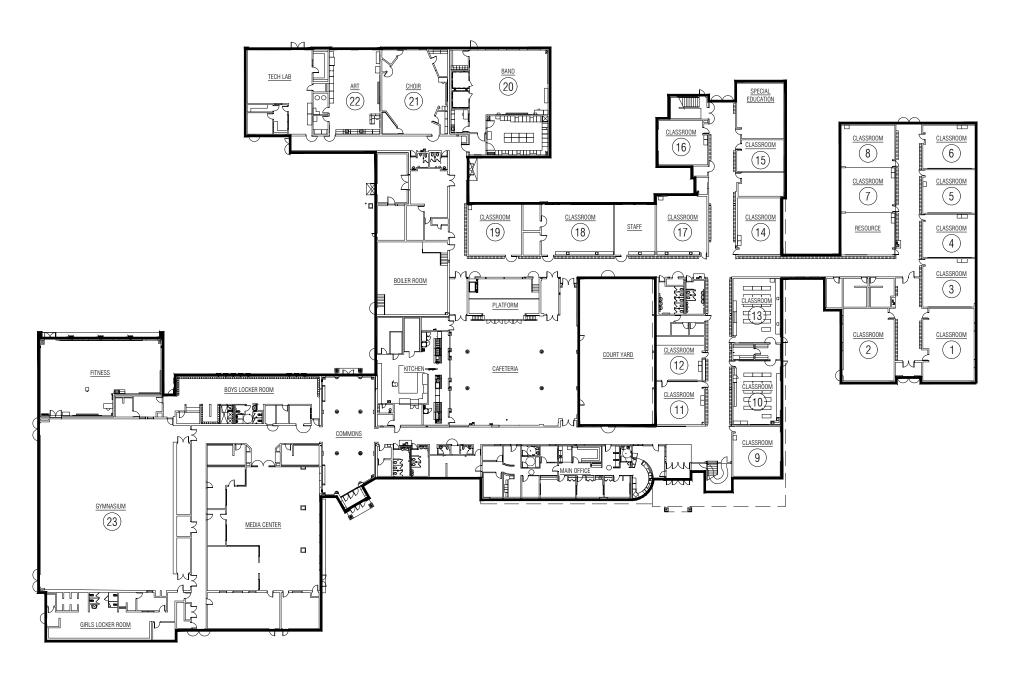
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	35	22.5	788
(9-12) High School	0	21.25	0
Subtotal	35		788
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary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



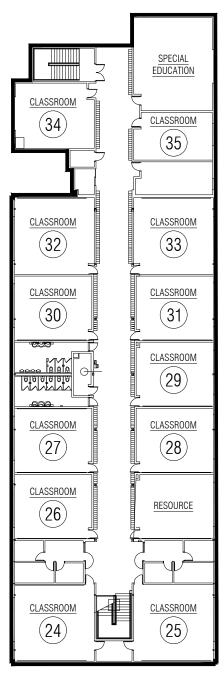


PARTNERS in Architecture, PLC

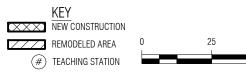














Middle School East				Project No. [n]	11
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
	New addition	New addition	New addition	New addition	<u></u>
The associated Cost	✓ Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For 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	
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? (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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	787,764	5,621,363	867,640	0	7,276,767
Construction Contingencies	121,185	944,944	93,710	0	1,159,839
Instructional Technology	382,994	1,140,214	0	0	1,523,208
Loose Furnishing/Equipment	41,096	212,835	0	0	253,931
Buses	0	0	0	0	0
Site Work	0	2,475,025	69,458	0	2,544,483
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	101,678	804,712	80,403	0	986,793
CM Fees and Costs	100,467	1,112,810	126,995	0	1,340,273
Estimated Costs	1,535,185	12,311,903	1,238,206	0	15,085,293

#### **Certificate by Registered Architect**

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

m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #44	1723
Signature	Date	Firm Name and License I	Number
Michael A. Malone, AIA	mmalone@partne	rsinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO 2024 Bond Program		ades:			- BAIRTO	N MALOW B	SILUL
liddle School East		Built:					
30300 Hickey Road, Chesterfield, MI	Building						
Building Project Work List	Site	Size:	46.01		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	157,000	sqft	5.00	785,000	908,736	1,200,731	2
Envelope							
replace exterior masonry	1	lpsm	68,511.48	68,511	79,311	104,795	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2
replace select exterior envelop materials	1	lpsm	61,000.00	61,000	70,615	93,305	2
replace EIFS with metal panels replace select exterior doors	520 70	sqft ea	70.00 5,500.00	36,400 385,000	42,138 445,686	55,677 588,893	1
replace select exterior doors	70	еа	•	/ork Subtotal:	1,571,952	2,077,052	
Interior Work			Exterior W	Jubioluli	.,07.1,702	_,0,,,002	
replace casework (countertops and hardware)	1	lpsm	150,000.00	150,000	173,644	229,439	3
replace interior openings	1	allo	25,000.00	25,000	28,941	38,240	3
replace drywall partitions & paint due to construction	1	lpsm	70,000.00	70,000	81,034	107,072	2
renovate toilet room & locker room	1,000	lpsm	275.00	275,000	318,347	420,638	3
replace carpet (classrooms, media center, offices)	44,075	lpsm	9.00	396,700	459,230	606,790	2
replace VCT flooring (cafeteria, music, & thresholds)	13,500	lpsm	8.00	108,000	125,024	165,196	2
replace architectural trim out/specialties	1		24,500.00	24,500	28,362	37,475	3
renovate space for emerging programs	2,000	•	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	3
Machanical Customa			Interior W	/ork Subtotal:	1,532,927	2,025,487	
Mechanical Systems Plumbing Work				1,305,882			
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	2
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	51,100.00	51,100	59,155	78,162	2
HVAC System			21,122.22	2.7.22			
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	2
replace mdf/idf air conditioning	4	•	15,000.00	60,000	69,458	91,776	1
Integrated Automation							
upgrade temperature control system	132,974		6.00	797,844	923,604	1,220,377	2
			Mechanical System	ems Subtotal:	2,934,572	3,877,509	
Electrical Systems							
Power	1		2.500.00	2 500	, 050	F 25/	•
upgrade electrical systems - priority 1	1 46	•	3,500.00	3,500	4,052	5,354	2 2
electrical to support technology  Lighting	40	ea	1,500.00	69,000	79,876	105,542	2
upgrade building exterior lighting	60	ea	850.00	51,000	59,039	78,009	2
upgrade classroom lighting	45,390		6.50	295,035	341,540	451,283	2
		•	Electrical Syst	ems Subtotal:	484,507	640,188	
			Construc	tion Subtotal:	6,523,958	8,620,236	
Technology Infrastructure							
demo coax/legacy cables		lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	132,974	sf	0.65	86,433	100,057	122,720	2
replace fiber to IDFs		ea	3,500.00	14,000	16,207	19,878	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	25	ea	4,000.00	100,000	115,763	141,983	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1
replace rack UPS	5 63	ea	1,200.00	6,000 75,600	6,946 87 516	8,519	1 2
update wireless infrastructure upgrade phone system	1	ea lpsm	1,200.00 35,000.00	75,600 35,000	87,516 40,517	107,339 49,694	1
apgrade priorie system		•	nology Infrastruc		400,577	491,307	- 1
Technology Safety & Security				o oublotat.	400,017	471,307	
upgrade security camera system	55	ea	1,500.00	82,500	95,504	117,136	2
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSS	ION PL	IRPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	6-8				
Middle School East	Year	Built:	2000				
30300 Hickey Road, Chesterfield, MI	Building						
		Size:			1.158	Doto	11/17/23
Building Project Work List	Site	s Size:	40.01		1.130		11/1//23
Category					Direct	Total	
Subcategory	٥.			Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
replace PA systems	132,974	sf	0.50	66,487	76,967	94,400	2
	Т	echnolo	gy Safety & Secu	rity Subtotal:	352,232	432,013	
	Techno	logy &	Safety Infrastruct	ure Subtotal:	752,809	923,320	
			REMODELIN	G SUBTOTAL:	7,276,767	9,543,556	
SITE WORK							
Site Paving							
repave lots and UG storm water structures	122,100	•	7.24	883,700	1,022,993	1,351,701	2
repave driveways and sidewalks	141,300	sqft	2.71	382,800	443,139	585,528	2
Site Improvements			Site Pav	ing Subtotal:	1,466,132	1,937,230	
Site Improvements replace athletic fields, exterior courts, & furnishings	1	lpsm	807,200.00	807,200	934,435	1,234,688	2
replace fences, gates, screen walls, and site furnishings	1	lpsm	24,120.00	24,120	27,922	36,894	2
upgrade site sign - digital	1	•	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	•	40,200.00	40,200	46,537	61,490	2
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Site Improvem		1,078,351	1,424,847	
			SITE WOR	K SUBTOTAL:	2,544,483	3,362,076	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2
student desktops	101	each	800.00	80,800	93,536	114,722	1
mobile devices: 6-12	657	each	350.00	229,845	266,074	326,340	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	341,709.50	341,710	395,571	485,168	2
Audiovisual	/2	b	0.000.00	207.000	//0.001	E/0 /72	
classroom AV (display, sound, PA, doc camera)	43		9,000.00 35,000.00	387,000	448,001	549,473	2
av for collaboration spaces conference room / IEP	1	lpsm each	5,000.00	35,000 5,000	40,517 5,788	49,694 7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,077	2
large group sound systems	3		30,000.00	90,000	104,186	127,784	2
kiva audiovisual	1	lpsm	35,000.00	35,000	40,517	49,694	2
	INST		NAL TECHNOLOG		1,523,208	1,868,215	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1
	N	lon-Inst	ructional Equipm	ent Subtotal:	41,096	50,404	<u> </u>
Furniture, Furnishings & Equipment (FFE)	4	lac	102 055 00	102.055	212.025	2/1.0/2	
purchase furniture	1	lpsm	183,855.00	183,855 <b>,&amp;E Subtotal:</b>	212,835	261,042	2
				,&E SUBTOTAL:	212,835 253,931	261,042 311,446	
				DJECT TOTAL:	11,598,389	15,085,293	
Notac				Contingency:	1,159,839 399,011		
<b>Notes:</b> Scope of work is conceptual and will be detailed throughout the design phase			Permits / Genera	al Conditions: n Consultants:	399,011 986,793		
Scope of work is conceptual and will be detailed throughout the design phase				WATCHISTAL COLLEGE	700,773		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	941,261		

#### **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.

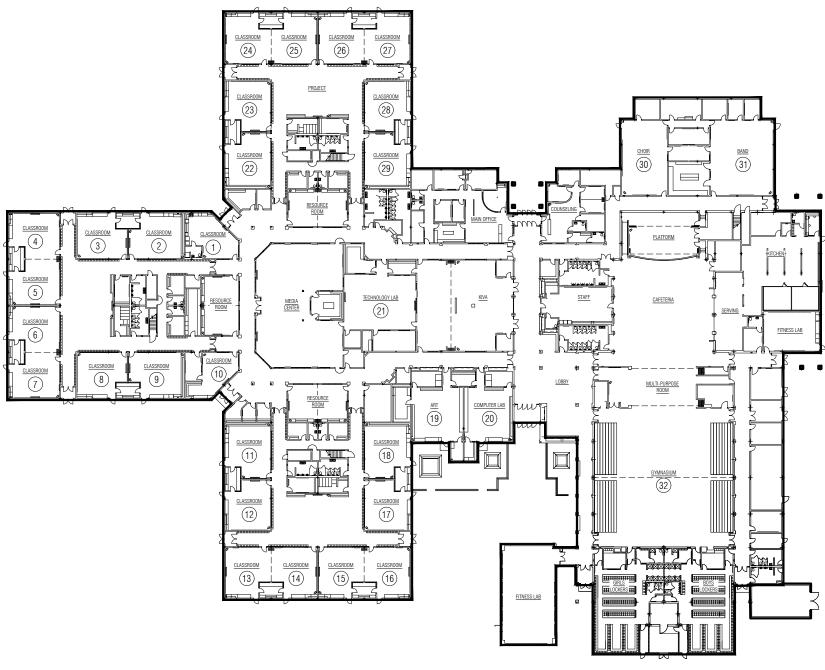
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	32	22.5	720
(9-12) High School	0	21.25	0
Subtotal	32		720
	1 1 4 11 6		
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower 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	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	Series 3	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	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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	548,830	3,449,968	2,766,703	0	6,765,502
Construction Contingencies	97,066	453,030	396,707	0	946,803
Instructional Technology	380,731	1,080,335	0	0	1,461,066
Loose Furnishing/Equipment	41,096	0	212,835	0	253,931
Buses	0	0	0	0	0
Site Work	0	0	987,529	0	987,529
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	81,092	383,956	339,672	0	804,719
CM Fees and Costs	70,785	482,371	518,138	0	1,071,294
Estimated Costs	1,219,599	5,849,661	5,221,585	0	12,290,845

### **Certificate by Registered Architect**

attached detail relative to the construction project(s	j are true and confect t	the best of my knowledge and belief.	
4m Q.4m	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nur	nber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO					DARTU	N MALOW B	OUT DE
2024 Bond Program			6-8				
liddle School North		Built:					
46201 Fairchild Road, Macomb, MI	Building	Size:	78,388				
Building Project Work List	Site	Size:	24.11		1.158	Date:	11/17/2
itegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
EMODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	26,500	saft	25.89	686,085	794,229	1,049,431	2
Envelope	,,,,,	- 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	, , ,	
replace exterior masonry	1	lpsm	166,448.40	166,448	192,685	254,598	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2
replace select exterior envelop materials	1	lpsm	37,000.00	37,000	42,832	56,595	2
reroute roof overflow drainage	1	lpsm	315,000.00	315,000	364,652	481,822	2
replace select exterior doors	40	lpsm	5,500.00	220,000	254,678	336,510	1
· ·			Exterior W	ork Subtotal:	1,674,543	2,212,607	
Interior Work							
replace casework (countertops and hardware)	1	lpsm	50,000.00	50,000	57,881	76,480	3
replace interior openings	1	lpsm	25,000.00	25,000	28,941	38,240	3
replace drywall partitions & paint due to construction	1	lpsm	70,000.00	70,000	81,034	107,072	2
renovate toilet room & locker room	800	lpsm	275.00	220,000	254,678	336,510	3
replace carpet (classrooms, media center, offices)	51,200	lpsm	9.00	460,800	533,434	704,836	3
replace VCT flooring (cafeteria, music, & thresholds)	14,000	lpsm	8.00	112,000	129,654	171,314	3
replace science casework	. 1	lpsm	30,000.00	30,000	34,729	45,888	3
replace architectural trim out/specialties	1	lpsm	24,500.00	24,500	28,362	37,475	3
renovate space for emerging programs	2,000	•	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	3
renovate kitchen (walk-ins, dish washer, & serving line)	1,000	lpsm	1,230,000.00	1,230,000	1,423,879	1,881,399	2
removate kitchen (watk ms, alsh washer, a serving the)	<u> </u>	трэпп		ork Subtotal:	2,890,937	3,819,853	
Mechanical Systems				O. K. Gubtotuti	2,070,707	0,017,000	
Plumbing Work							
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	76,000.00	76,000	87,980	116,249	2
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	51,100.00	51,100	59,155	78,162	3
HVAC System	·	тро	0.7.00.00	0.7.00	077.00	70,102	Ū
replace roof top units, classroom units, pumps, valves, & select piping	1	lpsm	367,000.00	367,000	424,848	561,361	3
replace mdf/idf air conditioning	-	ea	15,000.00	45,000	52,093	68,832	1
Integrated Automation	3	cu	13,000.00	45,000	32,073	00,032	
upgrade temperature controls	86,640	caft	6.00	519,840	601,780	795,144	3
upgrade temperature controts	00,040	Sylt	Mechanical Syste		1,225,855	1,619,747	3
Electrical Systems			Mechanical Syste	enis Subtotat.	1,223,033	1,017,747	
Power							
panels for new mechanical	1	allo	25,000.00	25,000	28,941	38,240	3
electrical to support technology	46		1,500.00	69,000	79,876	105,542	2
Lighting	40	cu	1,500.00	07,000	77,070	103,342	2
upgrade classroom lighting	35,345	saft	6.50	229,743	265,956	351,413	3
apgrade classroom agraing	33,343	Sqit	Electrical Syste		374,772	495,194	
				tion Subtotal:	6,166,108	8,147,402	
Technology Infrastructure			Construct	ilon Subtotut.	0,100,100	0,147,402	
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	78,388		0.65	50,952	58,984	72,343	2
replace fiber to IDFs		ea	3,500.00	7,000	8,103	9,939	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
	-						
replace network switches - edge	19	ea	4,000.00	76,000	87,980	107,907	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1
update wireless infrastructure	60	ea	1,200.00	72,000	83,349	102,228	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1
Tashaalaan Cafabo O Casusibo		ſech	nology Infrastruct	ure Subtotal:	316,671	388,397	
Technology Safety & Security			1 500 00	00 500	05 507	117 107	
upgrade security camera system	55		1,500.00	82,500	95,504	117,136	2
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	R DISCUSS	SION P	JRPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	6-8				
Middle School North	Year	Built:	1965				
46201 Fairchild Road, Macomb, MI	Building						
					1 150	Datas	11/17/00
Building Project Work List	Site	Size:	Z4.11		1.158	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
install emergency alert system	78,388	sf	0.60	47,033	54,446	66,778	2
replace PA systems	78,388	sf	0.50	39,194	45,372	55,649	2
			ogy Safety & Secu		282,723	346,760	
	Techno	ology &	Safety Infrastruct		599,394	735,157	
			REMODELIN	G SUBTOTAL:	6,765,502	8,882,558	
SITE WORK							
Site Paving							
repave NE parking lot and UG stormwater structure	16,200	•	20.93	339,140	392,597	518,746	3
repave NW parking lot, bus loop and drive	45,100	sqft	8.60	387,900	449,043	593,329	3
Site Improvements			Site Pav	ring Subtotal:	841,640	1,112,075	
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	47,125.00	47,125	54,553	72,082	3
upgrade site sign - digital	1	•	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	•	18,850.00	18,900	21,879	28,909	3
<u> </u>			Site Improvem	ent Subtotal:	145,890	192,767	
			SITE WOR	K SUBTOTAL:	987,529	1,304,842	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2
classroom printers	53	each	250.00	13,250	15,339	18,813	1
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2
student desktops	69	each	800.00	55,200	63,901	78,374	1
mobile devices: 6-12	686	each	350.00	240,240	278,108	341,099	1
mobile device storing/charging (classroom)	43	each	400.00	17,200	19,911	24,421	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	324,984.00	324,984	376,210	461,421	2
Audiovisual classroom AV (display, sound, PA, doc camera)	43	each	9,000.00	387,000	448,001	549,473	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	2
large group sound systems	3	each	30,000.00	90,000	104,186	, 127,784	2
	INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	1,461,066	1,791,998	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	55	each	400.00	22,000	25,468	31,236	1
	N	lon-Ins	tructional Equipm	ent Subtotal:	41,096	50,404	
Furniture, Furnishings & Equipment (FFE)			102.055.00	100.055	010.00=	0/1.0/2	
purchase furniture	1	lpsm	183,855.00	183,855	212,835	261,042	3
				,&E Subtotal: E SUBTOTAL:	212,835 253,931	261,042 311 666	
						311,446	
				JECT TOTAL:	9,468,028	12,290,845	
				Contingency:	946,803		
Notes:			Permits / Genera		314,760		
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	804,719		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	756,534		
			ROIL	DING TOTAL:	12,290,845		

#### **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.

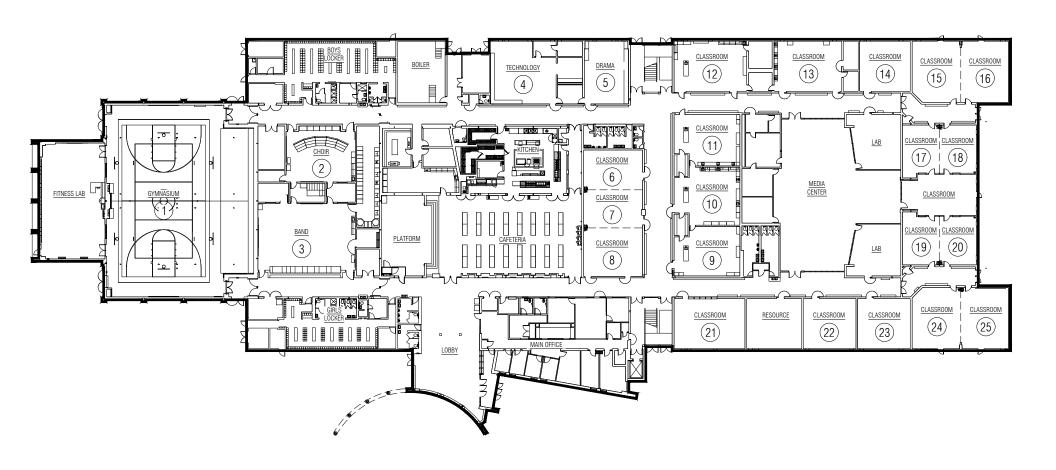
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	34	22.5	765
(9-12) High School	0	21.25	0
Subtotal	34		765
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
(9-12) High School <b>Subtotal</b>	0 <b>0</b>	21.25	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)

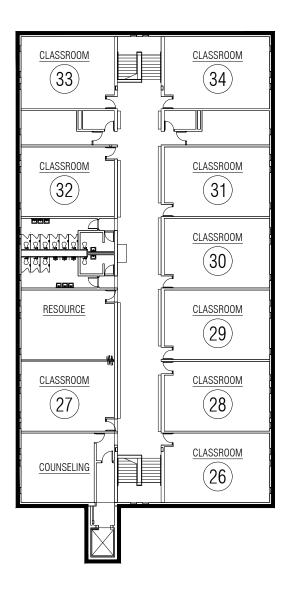


















Middle School South				Project No. [n]	13
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
	New addition	New addition	New addition	New addition	
The associated Cost	✓ Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For multiple 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				
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	j 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	564,458	3,301,390	3,221,471	0	7,087,319
Construction Contingencies	93,503	460,140	512,697	0	1,066,340
Instructional Technology	329,472	1,023,949	0	0	1,353,421
Loose Furnishing/Equipment	41,096	0	212,835	0	253,931
Buses	0	0	0	0	0
Site Work	0	276,065	1,692,661	0	1,968,725
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	78,173	390,157	439,191	0	907,522
CM Fees and Costs	69,799	494,817	675,328	0	1,239,945
Estimated Costs	1,176,500	5,946,519	6,754,183	0	13,877,203

### **Certificate by Registered Architect**

un a. un	11/28/2023	PARTNERS in Architecture, PLC #4	4723
Signature	Date	Firm Name and License	Number
Michael A. Malone, AIA	mmalone@partne	rsinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO					DAINTO	N MALOW B	911-91
2024 Bond Program		ades:					
iddle School South		Built:					
34641 Jefferson Ave, Harrison Twp, MI	Building	Size:	91,747				
Building Project Work List	Site	Size:	24.20		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MARTING WORK							
MODELING WORK  Exterior Work							
Roofing							
roof work - priority 1	79,400	saft	25.03	1,987,382	2,300,643	3,039,886	2
Envelope	,			.,,	_,,_,	-,,	_
replace exterior masonry	1	lpsm	178,825.45	178,825	207,013	273,530	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2
replace select exterior envelop materials	1	lpsm	34,100.00	34,100	39,475	52,159	2
reroute roof overflow drainage	1	lpsm	21,400.00	21,400	24,773	32,733	3
replace EIFS with metal panels	1,800	sqft	70.00	126,000	145,861	192,729	2
replace select exterior doors	41	ea	5,500.00	225,500	261,044	344,923	1
latan'a Mari			Exterior W	ork Subtotal:	3,004,277	3,969,611	
nterior Work replace casework (countertops and hardware)	1	lpsm	35,000.00	35,000	40,517	53,536	3
replace casework (countertops and nardware) replace interior openings	1	lpsm lpsm	25,000.00 25,000.00	25,000 25,000	40,517 28,941	38,240	3
replace drywall partitions & paint due to construction	1	lpsm	85,000.00	85,000	98,398	130,015	2
renovate toilet room & locker room	800	lpsm	275.00	220,000	254,678	336,510	3
replace carpet ( 2nd floor classrooms & corridor)	11,800	lpsm	9.00	106,200	122,940	162,443	3
replace VCT flooring (cafeteria & service)	4,000	lpsm	8.00	32,000	37,044	48,947	3
replace science casework	1	lpsm	40,000.00	40,000	46,305	61,184	3
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	•	75.00	75,000	86,822	114,719	3
replace telescoping bleachers		seats	200.00	80,000	92,610	122,367	3
replace telescoping bleachers	400	Jeats		ork Subtotal:	1,039,779	1,373,880	
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	3
HVAC System							
replace roof top units and classroom units, valves, pumps	1	lpsm	1,005,000.00	1,005,000	1,163,413	1,537,241	3
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1
Integrated Automation							
upgrade temperature control system	91,747	sqft	6.00	550,482	637,252	842,013	3
			Mechanical Syste	ems Subtotal:	1,940,737	2,564,335	
Electrical Systems							
Power							
upgrade electrical systems - priority 1 (new panels for mech)	1	allo	25,000.00	25,000	28,941	38,240	3
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	2
Lighting	20		050.00	10.700	01 //0	00.400	
upgrade building exterior lighting		ea	850.00	18,700	21,648	28,603	2
upgrade classroom lighting	44,884	sqft	6.50	291,746	337,732	446,253	3
			Electrical Syste	tion Subtotal:	468,197 6,452,990	618,638 8,526,465	
Fechnology Infrastructure			Construc	tion Subtotat.	0,432,770	0,320,403	
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	91,747	•	0.65	59,636	69,036	84,672	2
replace fiber to IDFs		ea	3,500.00	7,000	8,103	9,939	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	21	ea	4,000.00	84,000	97,241	119,265	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1
update wireless infrastructure	59	ea	1,200.00	70,800	81,960	100,524	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1
			nology Infrastruct	,	334,595	410,380	
Fechnology Safety & Security							
upgrade security camera system		ea	1,500.00	82,500	95,504	117,136	2
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend						28,397	

Crades: 6-5   Middle School South   February   Februa	L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY -	FOR DISCUSS	SION PL	JRPOSE ONLY		BARTO	N MALOW B	UILDERS
Mid-    Project Work List   Project Work Lis						27		J.1
Stream								
Strict Proving								
Category   Content of the content		·						
State   Stat	Building Project Work List	Site	e Size:	24.20		1.158	Date:	11/17/23
Install emergency aiert system	Category					Direct	Total	
install emergency alert system	Subcategory				Direct	w/	w/ Indirect	Phase /
Page	Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
Page	install emergency alert system	91.747	sf	0.60	55.048	63.725	78.159	2
STEE WORK		•			•		•	
SITE WORK    Stive Paying				•-	•	299,734	367,624	
STEWORK   Sire Pairing   Sire Pair		Techno	ology &			-	-	
Site				REMODELIN	G SUBTOTAL:	7,087,319	9,304,469	
Tepare south east lot, drive, sidewalks, and UG stormwater structures   144,800 sqtt   7.83   1,133,784   1,312,497   1,734,228   3   33,850 sqtt   6.64   274,800   260,724   343,853   3   3   3   3   3   3   3   3   3	SITE WORK							
Site   Improvements	Site Paving							
Site   Improvements		•	•					
Site Improvements   1   1   1   1   1   1   1   1   1	repave east lot	33,850	sqft			•		3
replace athletic fields, exterior courts, & furnishings replace fences, gates, screen walls, and site furnishings 1   lpsm   22,805.00   22,700   26,510   35,028   3   upgrade site sign - digital   1   lpsm   60,000.00   60,000   60,408   91,776   3   update storage facilities 1   lpsm   20,650.00   20,700   23,963   31,663   3    Site Improvement Subtotal: 35,975   523,236   Site Improvement Subtotal: 35,975   523,236   Site Improvement Subtotal: 36,975   52,236   Site Improvement Subtotal: 36,975   36,975   36,975   Site Improvement Subtotal: 36,975   36,975   36,975   36,975   Site Improvement Subtotal: 36,975   36,975   36,975   36,975   36,975   Site Improvement Subtotal: 36,975   3	Site Improvements			Site Pav	ıng Subtotal:	1,5/2,731	2,0/8,081	
replace fences, gates, screen walls, and site furnishings  1   psm   22,900.00   22,900   26,510   35,028   3   upgrade site sign - digital   1   psm   20,650.00   20,700   23,463   31,663   3		1	Insm	238 475 00	238 475	276 065	364 770	2
upgrade site sign - digital update storage facilities 1 1 lpsm			•					
### Standard Standar	· · · · · · · · · · · · · · · · · · ·		1 -	•			•	
INSTRUCTIONAL TECHNOLOGY		1	•		•		•	
Notes:   N	<u></u>		•	Site Improvem	ent Subtotal:	395,995	523,236	
Computers and Mobile Devices   teacher computers (desktop+1:1 device)   53 each   1,250.00   66,250   76,693   94,064   2   classroom printers   53 each   250.00   13,250   15,339   18,813   1   admin staff computers   20 each   1,000.00   20,000   23,153   28,397   2   student desktops   133 each   800.00   106,400   123,171   151,070   1   mobile devices: 6-12   414 each   350.00   144,760   167,578   205,534   1   mobile device storing/charging (classroom)   43 each   400.00   17,200   19,911   24,421   1   mobile device storing/charging (carts)   2 each   1,500.00   3,000   3,473   4,259   1   refresh devices - series 2   1 alto   276,276.00   276,276   319,824   392,264   2   2   2   2   2   2   2   2   2				SITE WOR	K SUBTOTAL:	1,968,725	2,601,316	
Computers and Mobile Devices   teacher computers (desktop+1:1 device)   53 each   1,250.00   66,250   76,693   94,064   2   classroom printers   53 each   250.00   13,250   15,339   18,813   1   admin staff computers   20 each   1,000.00   20,000   23,153   28,397   2   student desktops   133 each   800.00   106,400   123,171   151,070   1   mobile devices: 6-12   414 each   350.00   144,760   167,578   205,534   1   mobile device storing/charging (classroom)   43 each   400.00   17,200   19,911   24,421   1   mobile device storing/charging (carts)   2 each   1,500.00   3,000   3,473   4,259   1   refresh devices - series 2   1 alto   276,276.00   276,276   319,824   392,264   2   2   2   2   2   2   2   2   2	INSTRUCTIONAL TECHNOLOGY							
Classroom printers								
Admin staff computers   20   each   1,000.00   20,000   23,153   28,397   2     student desktops   133   each   800.00   106,400   123,171   151,070   1     mobile devices storing/charging (classroom)   414   each   350.00   144,760   167,578   205,534   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,73   4,259   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,73   4,259   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,73   4,259   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,73   4,259   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,700   3,73   4,259   1     mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,700   3,700   4,700   3,700   4,700   3,700   4,700   3,700   4,70	teacher computers (desktop + 1:1 device)	53	each	1,250.00	66,250	76,693	94,064	2
Student desktops	•						•	
mobile devices: 6-12   414   each   350.00   144,760   167,578   205,534   1   mobile device storing/charging (classroom)   43   each   40.000   17,200   19,911   24,421   1   mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,473   4,259   1   refresh devices - series 2   1   allo   276,276.00   276,276   319,824   392,264   2   2   2   2   2   2   2   2   2								
mobile device storing/charging (classroom)					•	•		-
mobile device storing/charging (carts)   2   each   1,500.00   3,000   3,473   4,259   1   refresh devices - series 2   1   allo   276,276.00   276,276.00   319,824   392,264   2   2   2   2   2   2   2   2   2								
Teffesh devices - series 2								-
Audiovisual   Classroom AV (display, sound, PA, doc camera)								
Classroom AV (display, sound, PA, doc camera)			atto	270,270.00	270,270	317,024	372,204	2
av for collaboration spaces   1   lpsm   35,000.00   35,000   40,517   49,694   2   2   2   2   2   2   3   3   3   3		43	each	9,000.00	387,000	448,001	549,473	2
Design   Construction   Design   Design   Construction   Design   Design   Design   Design   Construction   Design   Desi		1	lpsm	•	•		•	2
Large group sound systems   3   each   30,000.00   90,000   104,186   127,784   2	conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 1,353,421 1,659,971	digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	2
FURNITURE, FURNISHINGS AND EQUIPMENT	large group sound systems	3	each	30,000.00	90,000	-		2
Non-Instructional Equipment		INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	1,353,421	1,659,971	
Durchase plotters   1 ea   3,500.00   3,500   4,052   4,969   1	FURNITURE, FURNISHINGS AND EQUIPMENT							
Durchase STEM / robotics equipment   1   lpsm   10,000.00   10,000   11,576   14,198   1	Non-Instructional Equipment							
Durchase radio / walkie-talkies   55   each   400.00   22,000   25,468   31,236   1	·	1	ea					1
Non-Instructional Equipment Subtotal: 41,096 50,404  Furniture, Furnishings & Equipment (FFE)  purchase furniture 1 lpsm 183,855.00 183,855 212,835 261,042 3  F,F,&E Subtotal: 212,835 261,042 F,F,&E SUBTOTAL: 253,931 311,446  PROJECT TOTAL: 10,663,396 13,877,203  Construction Contingency: 1,066,340  Notes: Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees  Non-Instructional Equipment Subtotal: 41,096 50,404  183,855.00 183,855 212,835 261,042 3  F,F,&E SUBTOTAL: 253,931 311,446  PROJECT TOTAL: 10,663,396 13,877,203  Construction Contingency: 1,066,340  Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees  C.M. Costs: 869,389			•					1
Purchase furniture   1 lpsm   183,855.00   183,855   212,835   261,042   3	purchase radio / walkie-talkies							1
PROJECT TOTAL: 10,663,396   13,877,203   1,066,340   1,0663,40	Furniture Furnishings 9 Favinment /EEE\	1	von-Ins	tructional Equipm	ent Subtotal:	41,096	50,404	
F,F,&E Subtotal: 212,835 261,042 F, F, & E SUBTOTAL: 253,931 311,446  PROJECT TOTAL: 10,663,396 13,877,203  Construction Contingency: 1,066,340  Notes: Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389		1	Insm	183 855 00	183 855	212 835	261 0/2	3
F, F, & ESUBTOTAL: 253,931 311,446  PROJECT TOTAL: 10,663,396 13,877,203  Construction Contingency: 1,066,340  Notes: Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389	paranase rannare	ı	rhaiii					
PROJECT TOTAL: 10,663,396 13,877,203  Construction Contingency: 1,066,340  Notes: Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389							-	
Construction Contingency: 1,066,340  Notes: Permits / General Conditions: 370,555  Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389								
Notes:Permits / General Conditions:370,555Scope of work is conceptual and will be detailed throughout the design phaseDesign Consultants:907,522Indirect Costs include; contingency, general conditions & professional feesC.M. Costs:869,389							13,077,203	
Scope of work is conceptual and will be detailed throughout the design phase Design Consultants: 907,522  Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389	Notes:							
Indirect Costs include; contingency, general conditions & professional fees C.M. Costs: 869,389								
				BUIL	-			

#### **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.

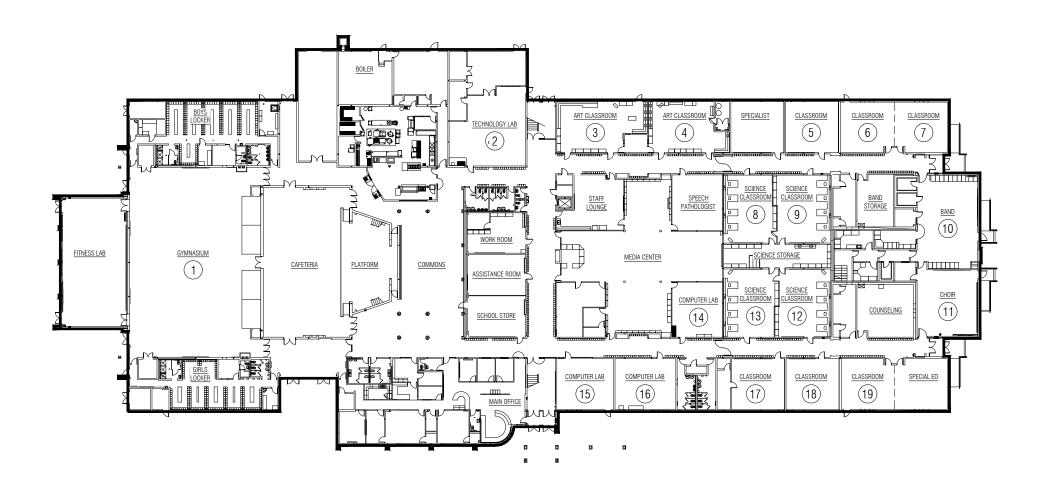
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	27	22.5	608
(9-12) High School	0	21.25	0
Subtotal	27		608
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary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

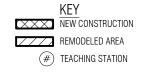
Projected 5-Year Enrollment 480

Utilization Percentage \_\_\_79%

(Projected 5-Year Enrollment / Total Capacity)

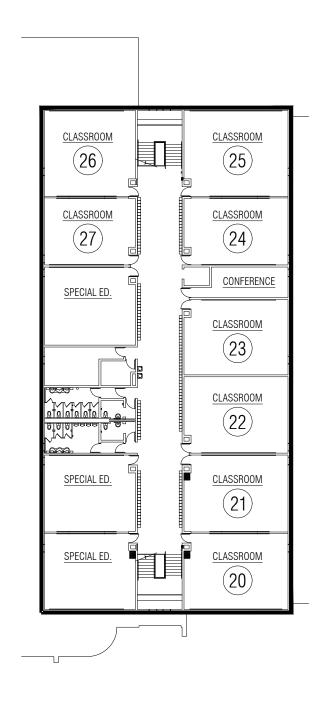




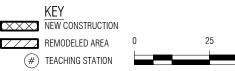














L'Anse Creuse High Sch	Project No. [n]	14			
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	ig
	New addition	New addition	New addition	New addition	
The associated Cost	Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	For multiple 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	g environmental or us	ability 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	4,384,498	10,058,296	4,707,193	0	19,149,986
Construction Contingencies	828,070	1,092,972	1,330,573	0	3,251,615
Instructional Technology	1,745,004	871,425	0	0	2,616,429
Loose Furnishing/Equipment	54,987	0	686,063	0	741,050
Buses	0	0	0	0	0
Site Work	2,096,210	0	7,912,472	0	10,008,682
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	700,050	934,894	1,140,199	0	2,775,144
CM Fees and Costs	832,843	1,401,443	1,763,463	0	3,997,748
Estimated Costs	10,641,662	14,359,031	17,539,962	0	42,540,655

### **Certificate by Registered Architect**

4m) 9.4m)	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Num	nber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO					DARTU	N MALOW B	OILDE
2024 Bond Program		ades:					
Anse Creuse High School	Year	Built:	1955				
38495 L'Anse Creuse Road, Harrison Twp, MI	Building	Size:	213,591				
Building Project Work List	Site	Size:	30.02		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
MODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	90,000	sqft	25.00	2,250,000	2,604,656	3,441,584	2
roof work - priority 2	19,700	sqft	5.00	98,500	114,026	150,665	3
Envelope							
replace exterior masonry	1	lpsm	273,055.00	273,055	316,095	417,663	2
upgrade select exterior glazing	1	lpsm	46,000.00	46,000	53,251	70,361	3
replace select exterior envelop materials	1	lpsm	100,000.00	100,000	115,763	152,959	2
reroute roof overflow drainage	1	lpsm	31,500.00	31,500	36,465	48,182	2
replace EIFS with metal panel	11,100	sqft	70.00	777,000	899,475	1,188,494	2
replace select exterior doors	46	lpsm	5,500.00	253,000	292,879	386,987	1
			Exterior W	ork Subtotal:	4,432,610	5,856,896	
Interior Work replace casework (countertops and hardware)	1	Inana	15 000 00	15.000	17 2//	22.077	2
	1	lpsm	15,000.00	15,000	17,364	22,944	2
replace interior openings	1	lpsm	50,000.00	50,000	57,881	76,480	3
replace drywall partitions & paint due to construction	1 250	lpsm	90,000.00	90,000	104,186	137,663	1
renovate toilet room & locker room	1,250	lpsm	275.00	343,750	397,934	525,798	3
replace carpet (select classrooms)	19,300	lpsm	9.00	173,700	201,079	265,690	2
replace VCT flooring (music rooms, thresholds)	10,000	lpsm	8.00	80,000	92,610	122,367	2
replace ceilings (9 classrooms Area A)	8,800		10.00	88,000	101,871	134,604	1
replace science casework	1	lpsm	40,000.00	40,000	46,305	61,184	3
renovate space for emerging programs	2,000	sqft	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	3
renovate kitchen (walk-ins & serving line)	1	lpsm	975,000.00	975,000	1,128,684	1,491,353	2
upgrade arts program (4 pre-fab studios & reno music & art rooms)	1	lpsm	1,662,500.00	1,662,500	1,924,552	2,542,948	2
renovate/relocate media center/commons/main office	12,500	sqft	250.00	3,125,000	3,617,578	4,779,978	3
Machanical Systems			Interior W	ork Subtotal:	8,008,392	10,581,648	
Mechanical Systems Plumbing Work							
replace water heater, pumps, select toilet room faucets & flush valves,							_
water bottle fillers, and grease traps	1	lpsm	151,000.00	151,000	174,801	230,969	2
replace pool system equipment	1	lpsm	540,000.00	540,000	625,118	825,980	1
select replace toilet room sink, toilet, & urinal bodies			88,000.00	88,000	101,871	134,604	3
HVAC System	·	срэпп	00,000.00	00,000	101,071	104,004	J
replace select RTUs, classroom units, valves, pumps, and piping	1	lpsm	317,800.01	317,800	367,893	486,105	2
replace pool and locker room mechanical equipment		lpsm	308,750.00	308,750	357,417	472,262	1
replace mdf/idf air conditioning	8	•	•				1
	1	ea	15,000.00 175,000.00	120,000	138,915	183,551	
locker rooms HVAC upgrades (duct and mechanical units)	ı	allo	175,000.00	175,000	202,584	267,679	1
Integrated Automation upgrade temperature control system	213,591	saft	6.00	1,281,546	1,483,550	1,960,244	2
apgrade temperature control system	213,371	Jqit	Mechanical Syste		3,452,149	4,561,393	
Electrical Systems			,		., . ,	, , .	
Power							
electrical to support technology	76	ea	1,500.00	114,000	131,969	174,374	1
Lighting							
upgrade building exterior lighting	30	ea	850.00	25,500	29,519	39,005	2
upgrade classroom lighting	88,482	sqft	6.50	575,133	665,788	879,719	2
Electronic Safety & Security							
replace fire alarm system	131,780	sqft	7.00	922,460	1,067,863	1,410,988	1
			Electrical Syste		1,895,140	2,504,086	
Technology Infrastructure			Construc	tion Subtotal:	17,788,290	23,504,024	
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	1
-	1		10,000.00	10,000	11,576	14,198	1
demo coay/legacy cables		rhaiii	10,000.00	10,000		14,170	
demo coax/legacy cables	213 501	sf	በ ለፍ	138 83%	1ለበ 71ይ	197 120	1
replace cabling infrastructure	213,591 9		0.65 3 500 00	138,834 31,500	160,718 36,465	197,120 44 725	1 1
	9	sf ea ea	0.65 3,500.00 9,000.00	138,834 31,500 9,000	160,718 36,465 10,419	197,120 44,725 12,778	

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY	Y - FOR DISCUSS	ION P	URPOSE ONLY		BARTO	N MALOW B	UILDEF
2024 Bond Program	Gr	ades:	9-12				
'Anse Creuse High School	Year	Built:	1955				
38495 L'Anse Creuse Road, Harrison Twp, MI	Building						
Building Project Work List					1 150	5.	11/17/0
Building Project Work List	Site	Size:	30.02		1.158	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
replace network switches - edge	52	ea	4,000.00	208,000	240,786	295,324	1
network switches - multigig	2	ea	10,000.00	20,000	23,153	28,397	1
replace rack UPS	10	ea	1,200.00	12,000	13,892	17,038	1
update wireless infrastructure	95	ea	1,200.00	114,000	131,969	161,860	1
upgrade phone system	1	lpsm	50,000.00	50,000	57,881	70,991	1
		Techi	nology Infrastruct	ure Subtotal:	698,435	856,630	
Technology Safety & Security							
upgrade security camera system	175	ea	1,500.00	262,500	303,877	372,705	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1 212 501		20,000.00	20,000	23,153	28,397	1
install emergency alert system	213,591		0.60	128,155	148,355	181,957	1
replace PA systems	213,591		0.50	106,796	123,629	151,631	1
			ogy Safety & Secu Safety Infrastruct	-	663,261 1,361,696	813,490 1,670,120	
	recnno	logy &	•	G SUBTOTAL:	19,149,986	25,174,144	
			KEITOBEEIN	O GODIOIAL.	17/147/700	20,174,144	
TE WORK							
Site Paving	-		1 000 000 00	1 000 000	0.100.155	2 222 /22	
repave parking lots and replace sidewalks	1	lpsm	1,883,300.00	1,883,300	2,180,155	2,880,683	3
replace speed bumps		lpsm	29,200.00	29,200	33,803	44,664	3
Site Improvements			Site Pav	ring Subtotal:	2,213,958	2,925,347	
Site Improvements replace athletic fields, exterior courts, & furnishings	1	lpsm	1,810,785.00	1,810,785	2,096,210	2,769,764	1
upgrade athletic program (baseball & softball synthetic)	1	lpsm	4,292,690.00	4,292,690	4,969,325	6,566,069	3
upgrade athletic program - football field digital scoreboard	1	lpsm	215,000.00	215,000	248,889	328,863	3
update concessions building	1	lpsm	201,900.90	201,901	233,726	308,826	3
replace fences, gates, screen walls, and site furnishings	1	lpsm	68,000.00	68,000	78,719	104,012	3
upgrade site sign - digital	1	lpsm	100,000.00	100,000	115,763	152,959	3
update storage facilities	1	lpsm	45,000.00	45,000	52,093	68,832	3
		'	Site Improvem	•	7,794,724	10,299,325	
			SITE WOR	K SUBTOTAL:	10,008,682	13,224,672	
STRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	83	each	1,250.00	103,750	120,104	147,307	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2
student desktops	101	each	800.00	80,800	93,536	114,722	1
mobile devices: 6-12	1,364	each	350.00	477,400	552,650	677,825	1
mobile device storing/charging (classroom)	73	each	400.00	29,200	33,803	41,459	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	614,020.00	614,020	710,805	871,802	2
Audiovisual							
classroom AV (display, sound, PA, doc camera)	73	each	9,000.00	657,000	760,560	932,826	1
science/art room/MC displays		each	5,000.00	25,000	28,941	35,496	1
	5		_	25 000	40,517	49,694	1
av for collaboration spaces	5 1	lpsm	35,000.00	35,000			1
conference room / IEP	5 1 1	lpsm each	5,000.00	5,000	5,788	7,099	-
conference room / IEP digital signage displays	5 1 1 1	lpsm each allo	5,000.00 5,000.00	5,000 5,000	5,788 5,788	7,099	1
conference room / IEP digital signage displays large group sound systems	5 1 1 1 5	lpsm each allo each	5,000.00 5,000.00 30,000.00	5,000 5,000 150,000	5,788 5,788 173,644	7,099 212,974	1
conference room / IEP digital signage displays	5 1 1 1 5	lpsm each allo each lpsm	5,000.00 5,000.00 30,000.00 40,000.00	5,000 5,000 150,000 40,000	5,788 5,788 173,644 46,305	7,099 212,974 56,793	-
conference room / IEP digital signage displays large group sound systems stadium sound system	5 1 1 1 5	lpsm each allo each lpsm	5,000.00 5,000.00 30,000.00	5,000 5,000 150,000 40,000	5,788 5,788 173,644	7,099 212,974	-
conference room / IEP digital signage displays large group sound systems stadium sound system  RNITURE, FURNISHINGS AND EQUIPMENT	5 1 1 1 5	lpsm each allo each lpsm	5,000.00 5,000.00 30,000.00 40,000.00	5,000 5,000 150,000 40,000	5,788 5,788 173,644 46,305	7,099 212,974 56,793	-
conference room / IEP digital signage displays large group sound systems stadium sound system  IRNITURE, FURNISHINGS AND EQUIPMENT Non-Instructional Equipment	5 1 1 1 5 1 INST	lpsm each allo each lpsm RUCTIO	5,000.00 5,000.00 30,000.00 40,000.00 NAL TECHNOLOG	5,000 5,000 150,000 40,000 Y SUBTOTAL:	5,788 5,788 173,644 46,305 <b>2,616,429</b>	7,099 212,974 56,793 <b>3,209,051</b>	1 1
conference room / IEP digital signage displays large group sound systems stadium sound system  IRNITURE, FURNISHINGS AND EQUIPMENT Non-Instructional Equipment purchase plotters	5 1 1 1 5 1 INST	lpsm each allo each lpsm RUCTIO	5,000.00 5,000.00 30,000.00 40,000.00 NAL TECHNOLOG	5,000 5,000 150,000 40,000 Y SUBTOTAL:	5,788 5,788 173,644 46,305 <b>2,616,429</b> 4,052	7,099 212,974 56,793 <b>3,209,051</b>	1 1
conference room / IEP digital signage displays large group sound systems stadium sound system  JRNITURE, FURNISHINGS AND EQUIPMENT Non-Instructional Equipment purchase plotters purchase STEM / robotics equipment	5 1 1 1 5 1 INST	lpsm each allo each lpsm RUCTIO	5,000.00 5,000.00 30,000.00 40,000.00 NAL TECHNOLOG 3,500.00 10,000.00	5,000 5,000 150,000 40,000 <b>Y SUBTOTAL:</b> 3,500 10,000	5,788 5,788 173,644 46,305 <b>2,616,429</b> 4,052 11,576	7,099 212,974 56,793 <b>3,209,051</b> 4,969 14,198	1 1 1
conference room / IEP digital signage displays large group sound systems stadium sound system  JRNITURE, FURNISHINGS AND EQUIPMENT Non-Instructional Equipment purchase plotters	5 1 1 1 5 1 INST	lpsm each allo each lpsm RUCTIO	5,000.00 5,000.00 30,000.00 40,000.00 NAL TECHNOLOG	5,000 5,000 150,000 40,000 <b>Y SUBTOTAL:</b> 3,500 10,000 34,000	5,788 5,788 173,644 46,305 <b>2,616,429</b> 4,052	7,099 212,974 56,793 <b>3,209,051</b>	1 1

L'ANSE CREUSE PUBLIC SCHOOLS PRI	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY				BARTON MALOW BUILDER:		
2024 Bond Program		Grades:	9-12				
L'Anse Creuse High School	Yea	ar Built:	1955				
38495 L'Anse Creuse Road, Harrison Twp, MI	Buildi	ng Size:	213,591				
Building Project Work List	Si	te Size:	30.02		1.158	Date:	11/17/23
Category				Plant	Direct	Total	Di
Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase / Series
purchase furniture		1 lpsm	375,000.00	375,000	434,109	532,435	3
purchase band trailers		1 lpsm	117,647.00	117,647	136,191	179,952	3
purchase band equipment		1 lpsm	100,000.00	100,000	115,763	152,959	3
			F,F,	,&E Subtotal:	686,063	865,346	
			F, F, &	E SUBTOTAL:	741,050	932,788	
			PRO	JECT TOTAL:	32,516,148	42,540,655	
			Construction	Contingency:	3,251,615		
Notes:			Permits / Genera	al Conditions:	1,234,153		
Scope of work is conceptual and will be detailed throughout the	e design phase		Design	Consultants:	2,775,144		
Indirect Costs include; contingency, general conditions & profe	essional fees			C.M. Costs:	2,763,595		
			BUIL	DING TOTAL:	42,540,655		

#### **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.

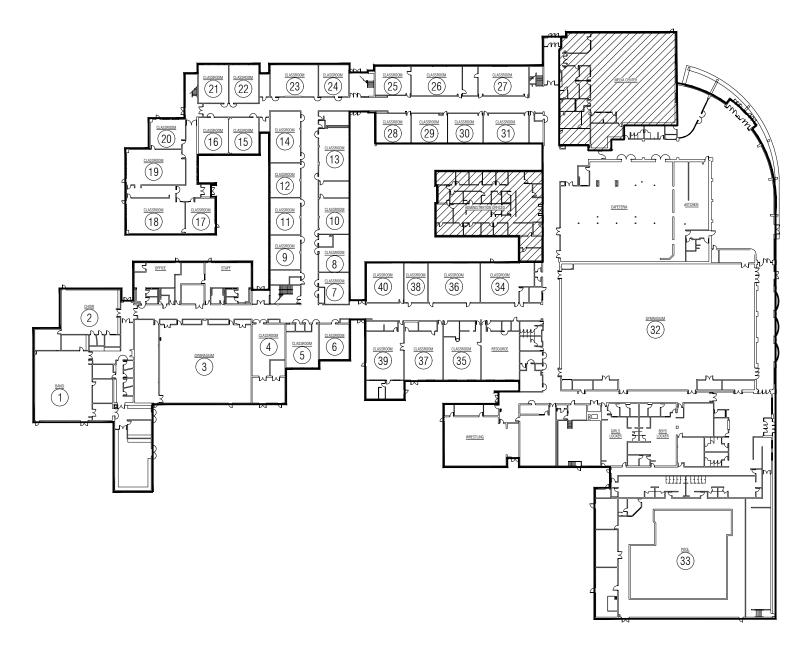
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	72	21.25	1,530
Subtotal	72		1,530
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	_		Capacity 0
•	Stations	Factor	
(K-2) Lower Elementary	Stations 0	Factor 20	0
(K-2) Lower Elementary (3-5) Upper Elementary	Stations 0 0	Factor 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 \_\_1,305

Utilization Percentage 85%

(Projected 5-Year Enrollment / Total Capacity)

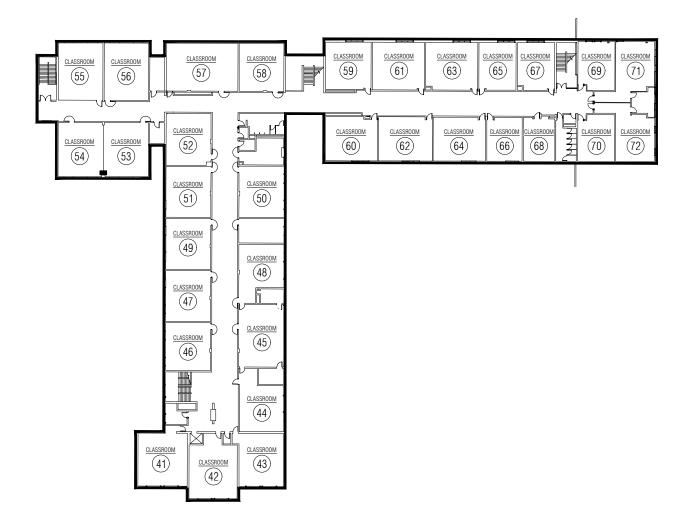




















High School North				Project No. [n]	15
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bldg	New stand-alone blo	New stand-alone blo	New stand-alone blo	9
	New addition	✓ New addition	New addition	New addition	
The associated Cost	✓ Remodeling	Remodeling	✓ Remodeling	Remodeling	For multiple 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			* includes escalation	
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Nev	w Addition Square Ft.	4,500	Cost per Sq Ft	\$405	*
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**

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	0	1,823,259	0	0	1,823,259
Remodeling	7,336,716	8,545,183	4,337,748	0	20,219,647
Construction Contingencies	1,116,182	1,221,499	1,410,352	0	3,748,032
Instructional Technology	1,672,513	1,412,439	0	0	3,084,953
Loose Furnishing/Equipment	56,376	173,644	686,063	0	916,083
Buses	0	0	0	0	0
Site Work	2,096,210	260,466	9,079,705	0	11,436,381
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	948,594	1,041,528	1,208,649	0	3,198,772
CM Fees and Costs	1,260,574	1,474,617	1,871,579	0	4,606,770
Estimated Costs	14,487,165	15,952,636	18,594,096	0	49,033,897

### **Certificate by Registered Architect**

attached actain relative to the contendencin proje	orio, are trae aria correc	t to the boot of my knowledge and bollon	
4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #447	723
Signature	Date	Firm Name and License N	umber
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOI					BARTO	N MALOW B	OILDE
2024 Bond Program	Gr	ades:	9-12				
igh School North	Year	Built:	1972				
23700 21-Mile Road, Macomb, MI	Building	Size:	238,187				
Building Project Work List	Site	Size:	41.12		1.158	Date:	11/17/2
	5.1.0	0.20.	2				, , _
tegory					Direct	Total	
Subcategory				Direct	w/	w/Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
W CONSTRUCTION							
build music program addition	4,500	sqft	350.00	1,575,000	1,823,259	2,409,109	2
	4,500			SUBTOTAL:	1,823,259	2,409,109	
	,				,,,,,	, , , ,	
MODELING WORK							
Exterior Work							
Roofing roof work - priority 1 (balance from summer 2023)	143,407	sqft	25.00	3,585,175	4,150,288	5,483,859	1
roof work - priority 2	10,200	•	8.00	81,600	94,462	124,815	3
Envelope	10,200	syit	0.00	01,000	74,402	124,013	3
replace exterior masonry	1	lpsm	1,125,220.00	1,125,220	1,302,583	1,721,129	2
upgrade select exterior glazing	1	lpsm	81,000.00	81,000	93,768	1,721,127	3
replace select exterior grazing	1	lpsm	31,500.00	31,500	36,465	48,182	2
repute roof overflow drainage	1	lpsm	45,000.00	45,000	52,093	68,832	2
replace EIFS with metal panel	3,300	sqft	45,000.00 70.00	231,000	267,411	353,336	2
replace select exterior doors		ea	5,500.00	462,000	534,823	706,672	1
replace select exterior aborts	- 04	cu	,	Vork Subtotal:	6,531,893	8,630,721	
Interior Work					5,55.,575	5,555,121	
replace casework (countertops and hardware)	1	lpsm	15,000.00	15,000	17,364	22,944	3
replace interior openings	1	lpsm	50,000.00	50,000	57,881	, 76,480	3
replace drywall partitions & paint due to construction	1	lpsm	90,000.00	90,000	104,186	137,663	1
renovate toilet room & locker room	1,250	sqft	275.00	343,750	397,934	525,798	3
replace carpet (30 classrooms)	31,200	sf	9.00	280,800	325,061	429,510	2
replace VCT flooring (cafeteria & thresholds)	2,000	sf	8.00	16,000	18,522	24,473	2
replace ceilings (21 classrooms Area A through E)	17,500	sqft	10.00	175,000	202,584	267,679	1
replace science casework	1	lpsm	30,000.00	30,000	34,729	45,888	2
replace architectural trim out/specialties	1	lpsm	50,000.00	50,000	57,881	, 76,480	3
renovate space for emerging programs	2,000	•	100.00	200,000	231,525	305,919	3
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	3
renovate kitchen (walk-ins & serving line)	1	lpsm	340,000.00	340,000	393,593	520,062	2
improve arts program (art room renovations)	7,000	•	125.00	875,000	1,012,922	1,338,394	2
renovate/relocate media center/commons/main office	11,050	•	250.00	2,762,500	3,197,939	4,225,501	3
remodeling for addition (connection allowance)	4,500		25.00	112,500	130,233	172,079	2
	·		Interior V	Vork Subtotal:	6,269,176	8,283,588	
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	2
water bottle fillers, and grease traps	·	•	•	,	,	•	
replace pool system equipment	1	lpsm	577,500.00	577,500	668,528	883,340	1
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	88,260.00	88,260	102,172	135,002	3
HVAC System							
replace boilers, chillers, roof top units, classroom units, pumps, valves, &	1	lpsm	1,735,576.97	1,735,577	2,009,147	2,654,726	2
piping		•					_
replace pool and locker room mechanical equipment	1	lpsm	308,750.00	308,750	357,417	472,262	1
replace mdf/idf air conditioning	9	ea	15,000.00	135,000	156,279	206,495	1
Integrated Automation	000 107			1 /00 100	1 (5 ( 207	0.105.075	•
upgrade temperature controls	238,187	sqrt	6.00	1,429,122	1,654,387	2,185,975	2
Electrical Systems			Mechanical Syst	ems Juviviäl:	5,122,733	6,768,769	
Power							
electrical to support technology	70	ea	1,500.00	118,500	137,179	181,257	1
Lighting	17	Ca	1,500.00	110,300	131,117	101,237	'
upgrade building exterior lighting	51	ea	850.00	43,350	50,183	66,308	2
upgrade dukding exterior kighting upgrade classroom lighting	92,240		6.50	43,350 599,560	694,066	917,083	2
apgrade etassioom agraing	14,440	əqit	Electrical Syst		881,427	1,164,647	
				tion Subtotal:	18,805,229	24,847,725	
Technology Infrastructure			5511541 44		. 5,500,227	,0-7, ,7 20	
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO					BARTO	N MALOW B	UILDE
2024 Bond Program	Gr	ades:	9-12				
gh School North	Year	Built:	1972				
3700 21-Mile Road, Macomb, MI	Building	Size:	238,187				
Building Project Work List	Site	Size:	41.12		1.158	Date:	11/17/2
egory					Direct	Total	
ubcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
replace cabling infrastructure	238,187	sf	0.65	154,822	179,225	219,820	2
replace fiber to IDFs	8	ea	3,500.00	28,000	32,414	39,755	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	49	ea	4,000.00	196,000	226,895	278,286	1
network switches - multigig	2	ea	10,000.00	20,000	23,153	28,397	1
replace rack UPS	9	ea	1,200.00	10,800	12,502	15,334	1
update wireless infrastructure	111	ea	1,200.00	133,200	154,196	189,121	2
upgrade phone system	1	lpsm	50,000.00	50,000	57,881	70,991	1
apgrade priorie dystem			nology Infrastruct		719,836	882,879	•
echnology Safety & Security						_	
upgrade security camera system	175	ea	1,500.00	262,500	303,877	372,705	1
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	238,187	sf	0.60	142,912	165,439	202,911	1
replace PA systems	238,187		0.50	119,094	137,866	169,092	1
replace i Asystems			ogy Safety & Secu	· · · · · · · · · · · · · · · · · · ·	694,582	851,904	- '
			Safety Infrastruct	-	1,414,418	1,734,783	
	10011110	tog, a	-	G SUBTOTAL:	20,219,647	26,582,509	
WORK							
ite Paving							
repave lots at courts and concessions and replace sidewalks	87,200	sqft	10.64	927,700	1,073,929	1,419,003	3
repave west and east lots and drop off lane	276,900	•	7.14	1,977,700	2,289,435	3,025,076	3
<u>.</u>	,		Site Pa	ving Subtotal:	3,363,364	4,444,080	
ite Improvements							
site work for addition	4,500	sqft	50.00	225,000	260,466	344,158	2
replace football field synthetic turf, tracks, and tennis courts	1	lpsm	1,810,785.00	1,810,785	2,096,210	2,769,764	1
upgrade athletic program (baseball & softball synthetic turf; backstops )	1	lpsm	4,446,750.00	4,446,750	5,147,669	6,801,718	3
upgrade athletic program (football field digital scoreboard)	1	lpsm	215,000.00	215,000	248,889	328,863	3
update concessions building	1	lpsm	131,240.76	131,241	151,928	200,745	3
upgrade site sign - digital	1	lpsm	100,000.00	100,000	115,763	152,959	3
update storage facilities	1	lpsm	45,000.00	45,000	52,093	68,832	3
			Site Improvem	nent Subtotal:	8,073,017	10,667,039	
			SITE WOR	K SUBTOTAL:	11,436,381	15,111,119	
TRUCTIONAL TECHNOLOGY							
omputers and Mobile Devices							
teacher computers (desktop + 1:1 device)	86	each	1,250.00	107,500	124,445	152,631	2
admin staff computers	35	each	1,000.00	35,000	40,517	49,694	2
student desktops	133	each	800.00	106,400	123,171	151,070	1
mobile devices: 6-12	1,703	each	350.00	595,980	689,921	846,189	1
mobile device storing/charging (classroom)	76	each	400.00	30,400	35,192	43,163	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	772,618.00	772,618	894,402	1,096,984	2
udiovisual	7.		0.000.00	/0/ 000	701.017	071 170	-
classroom AV (display, sound, PA, doc camera)	76	each	9,000.00	684,000	791,816	971,162	1
science/art room/MC displays	5	each	5,000.00	25,000	28,941	35,496	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	2
large group sound systems	5	each	30,000.00	150,000	173,644	212,974	2
stadium sound system	1	lpsm	40,000.00	40,000	46,305	56,793	2
lgi audiovisual	2 INST	each	35,000.00 NAL TECHNOLOG	70,000	81,034	99,388	2
	INSI	NUC I IU	MAL I EURNULUU	or SUBTUTAL:	3,084,953	3,783,694	
NITURE, FURNISHINGS AND EQUIPMENT							
on-Instructional Equipment purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
			3 500 00	3 51111	/ 115/		
purchase protrers	ı	Ca	0,000.00	3,300	4,032	4,707	'

L'ANSE CREUSE PUBLIC SCHOOLS PR	ELIMINARY - FOR DISCUSSI	ON P	URPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gra	des:	9-12				
High School North	Year E	Built:	1972				
23700 21-Mile Road, Macomb, MI	Building !	Size:	238,187				
Building Project Work List	Site :	Size:	41.12		1.158	Date:	11/17/23
Category Subcategory	Ohr	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
Description	Qty	UIIIL	Unit Cost	COST	ESCALACION	CUSIS	Series
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	88	each	400.00	35,200	40,748	49,978	1
	No	on-Ins	tructional Equipm	ent Subtotal:	56,376	69,146	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1	lpsm	375,000.00	375,000	434,109	532,435	3
purchase band trailers	1	lpsm	117,647.00	117,647	136,191	179,952	3
purchase kitchen equipment	1	lpsm	150,000.00	150,000	173,644	212,974	2
purchase band equipment	1	lpsm	100,000.00	100,000	115,763	152,959	3
			F,F,	&E Subtotal:	859,707	1,078,321	
			F, F, & I	SUBTOTAL:	916,083	1,147,466	
			PRO	JECT TOTAL:	37,480,323	49,033,897	
			Construction	Contingency:	3,748,032		
Notes:			Permits / Genera	l Conditions:	1,421,940		
Scope of work is conceptual and will be detailed throughout the	e design phase		Design	Consultants:	3,198,772		
Indirect Costs include; contingency, general conditions & profe	essional fees			C.M. Costs:	3,184,830		
			BUIL	DING TOTAL:	49,033,897		

#### **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.

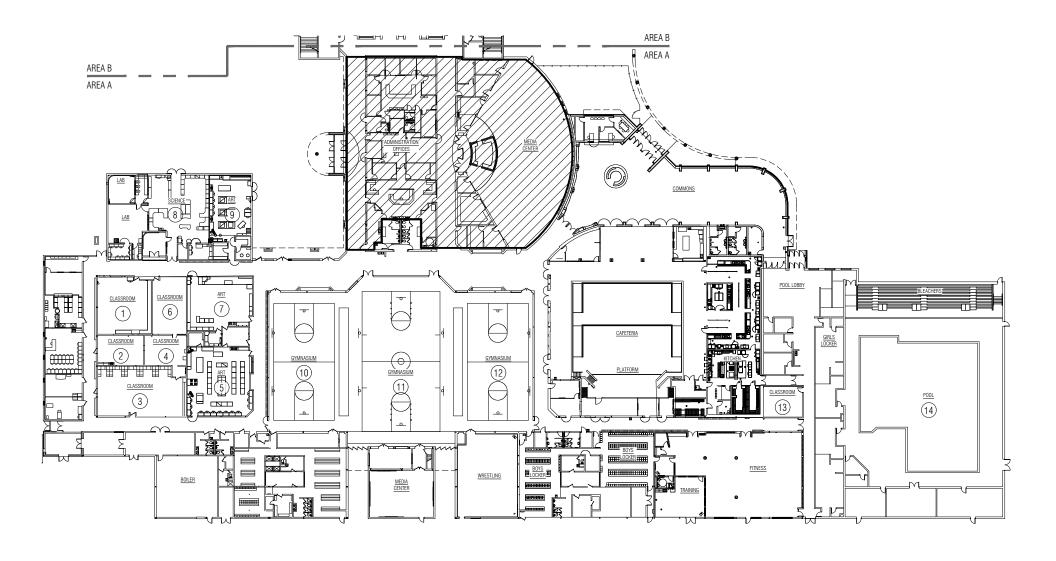
Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	81	21.25	1,721
Subtotal	81		1,721
	List # of		
Proposed New	Teaching Stations	Capacity Factor	Capacity
Proposed New (K-2) Lower Elementary	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	1	21.25	21
Total	1		21

Projected 5-Year Enrollment 1,400

**Utilization Percentage** 80%

(Projected 5-Year Enrollment / Total Capacity)



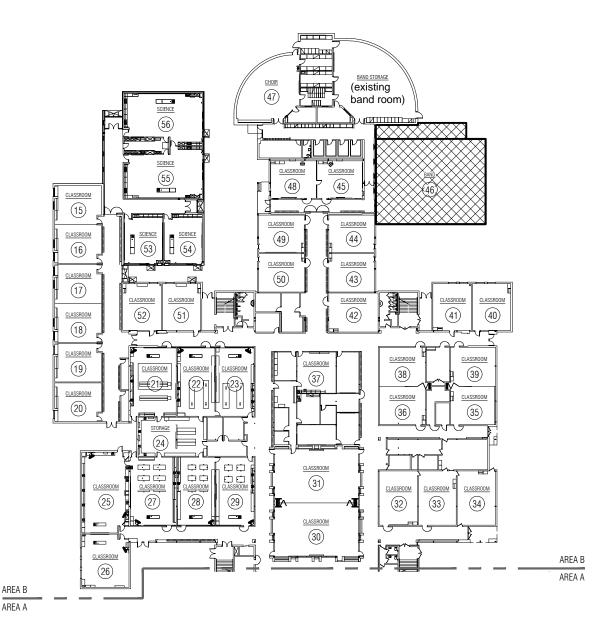










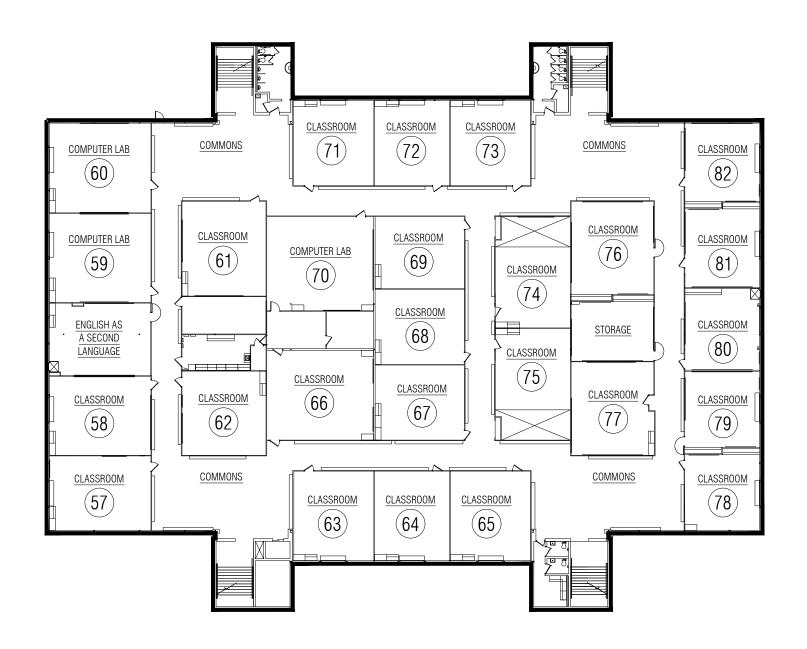




















Burdi Early Childhood Cer	Project No. [n]	16			
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	lg
	New addition	New addition	New addition	New addition	]
The associated Cost	✓ Remodeling	✓ Remodeling	✓ Remodeling	Remodeling	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.
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 Pe	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 existing	g 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	283,271	1,854,452	31,256	0	2,168,979
Construction Contingencies	34,682	258,694	10,071	0	303,448
Instructional Technology	40,980	267,469	0	0	308,449
Loose Furnishing/Equipment	22,574	86,822	0	0	109,396
Buses	0	0	0	0	0
Site Work	0	378,196	69,458	0	447,654
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	29,049	220,421	8,641	0	258,110
CM Fees and Costs	27,338	307,909	13,649	0	348,896
Estimated Costs	437,894	3,373,963	133,075	0	3,944,931

### **Certificate by Registered Architect**

4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nun	nber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

	ARY - FOR DISCUSS	IUN P			BARTU	N MALOW B	UILDE
2024 Bond Program	Gr	ades:	preK				
ırdi 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:	11/17/2
egory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
40DELING WORK							
exterior Work							
Roofing							
roof work - priority 1	1	lpsm	7,000.00	7,000	8,103	10,707	2
Envelope	1		22 222 22	22.000	25.770	22 / 51	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3 2
replace select exterior envelop materials reroute roof overflow drainage	1	lpsm lpsm	25,000.00 41,000.00	25,000 41,000	28,941 47,463	38,240 62,713	2
replace select exterior doors	18	lpsm	5,500.00	99,000	114,605	151,430	1
replace select exterior abors	10	срэпп		ork Subtotal:	224,579	296,741	•
nterior Work					•	•	
replace casework (countertops and hardware)		lpsm	80,000.00	80,000	92,610	122,367	2
replace interior openings	1	allo	5,000.00	5,000	5,788	7,648	3
replace drywall partitions & paint due to construction	1	lpsm	20,000.00	20,000	23,153	30,592	2
renovate toilet room & locker room	1	lpsm	50,953.50	50,954	58,985	77,938	2
replace carpet (classrooms)	7,800	•	9.00	70,200	81,265	107,377	2
replace VCT flooring (classrooms and workrooms)	3,000	sqft	8.00	24,000	27,783	36,710	2
replace architectural trim out/specialties		lpsm	10,000.00	10,000	11,576	15,296	2
upgrade space for special needs program	1,000	•	75.00	75,000	86,822	114,719	2
renovate early childhood program space	I	lpsm	905,000.00	905,000 ork Subtotal:	1,047,651 <b>1,435,633</b>	1,384,282 1,896,930	2
Mechanical Systems			interior w	ork Subtotat.	1,433,033	1,070,730	
HVAC System							
replace roof top unit (RTU)	1	ea	35,000.00	35,000	40,517	53,536	2
replace mdf/idf air conditioning	1	ea	15,000.00	15,000	17,364	22,944	1
Integrated Automation							
upgrade temperature controls	17,102	sqft	3.00	51,306	59,393	78,477	2
Taskitas Contanta			Mechanical Syste	ms Subtotal:	117,274	154,957	
Electrical Systems Power							
electrical to support technology	14	ea	1,500.00	21,000	24,310	32,121	2
Lighting		cu	1,000.00	21,000	24,010	02,121	_
upgrade building exterior lighting	18	ea	850.00	15,300	17,712	23,403	2
upgrade classroom lighting	11,455		6.50	74,458	86,194	113,890	2
<u> </u>	, , , ,		Electrical Syste		128,216	169,414	
				ion Subtotal:	1,905,702	2,518,042	
echnology Infrastructure							
data cabling for renovations		ea	10,000.00	10,000	11,576	14,198	2
demo coax/legacy cables		lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	17,102		0.65	11,116	12,869	15,783	2
replace network switches - core/aggregate	1 5	ea	9,000.00	9,000	10,419	12,778	1 1
replace network switches - edge replace rack UPS	5 1	ea	4,000.00 1,200.00	20,000 1,200	23,153 1,389	28,397 1,704	1
update wireless infrastructure	14	ea ea	1,200.00	16,800	19,448	23,853	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
apgrade priorie system			nology Infrastruct		119,370	146,407	•
echnology Safety & Security			3,		•	•	
upgrade security camera system	20	ea	1,500.00	30,000	34,729	42,595	2
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control headend		lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	17,102		0.60	10,261	11,879	14,569	2
replace PA systems	17,102		0.50	8,551	9,899	12,141	2
			ogy Safety & Secu		143,907	176,502	
	Techno	logy &	Safety Infrastruct	ure Subtotal: G SUBTOTAL:	263,277 2,168,979	322,909	

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY			BARTON MALOW BUILDERS			
2024 Bond Program	Gr	ades:	preK				
Burdi Early Childhood Center	Year	Built:	1995				
29851 24-Mile Road, Chesterfield, MI	Building						
							44/47/00
Building Project Work List	Site	Size:	inc w/ Higgins		1.158	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
Site Improvements							
upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	2
upgrade playground soft surfaces	2,868	sqft	25.00	71,700	83,002	109,672	2
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	2
			Site Improvem	ent Subtotal:	447,654	591,494	
			SITE WOR	(SUBTOTAL:	447,654	591,494	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	13	each	1,250.00	16,250	18,811	23,072	2
admin staff computers	10	each	1,000.00	10,000	11,576	14,198	2
student desktops	35	each	800.00	28,000	32,414	39,755	1
mobile device storing/charging (classroom)	11	each	400.00	4,400	5,094	6,247	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	30,800.00	30,800	35,655	43,731	2
Audiovisual			0.000.00	20.000	11//05	1/0 5/0	
classroom AV (display, sound, PA, doc camera)	11	each	9,000.00	99,000	114,605	140,563	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	2
large group sound systems	1 INST	each	30,000.00 NAL TECHNOLOG	30,000 V SUBTOTAL:	34,729 <b>308,449</b>	42,595 <b>378,313</b>	2
FURNITURE FURNISHINGS AND FOUND AFAIT	111311	NOCTIC	MAL TECHNOLOG	I JUDIUIAL.	300,447	370,313	
FURNITURE, FURNISHINGS AND EQUIPMENT  Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	6,000	6,946	8,519	1
			tructional Equipm		22,574	27,687	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1	lpsm	75,000.00	75,000	86,822	106,487	2
				&E Subtotal: E SUBTOTAL:	86,822 109,396	106,487 134,174	
				JECT TOTAL:	3,034,477	3,944,931	
Materia			Construction		303,448		
Notes:			Permits / Genera		103,548		
Scope of work is conceptual and will be detailed throughout			Design	Consultants:	258,110		
Indirect Costs include; contingency, general conditions & pr	oressional fees		Buu	C.M. Costs:	245,348		
			BUIL	DING TOTAL:	3,944,931		

Pankow Career Tech Cent	Project No. [n]	17			
Proposal #:	Series 1	Series 2	Series 3	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>
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			* includes escalation	
New Stand-Alone Co	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	_
Ne	w Addition Square Ft.	5,000	Cost per Sq Ft	\$405	*
Does this proposed project	address any existing	g 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	Series 3	n/a	Total
New Construction	0	2,025,844	0	0	2,025,844
Remodeling	910,761	1,995,004	5,121,266	0	8,027,031
Construction Contingencies	107,377	518,819	851,820	0	1,478,015
Instructional Technology	123,762	873,302	0	0	997,064
Loose Furnishing/Equipment	39,243	0	289,406	0	328,650
Buses	0	0	0	0	0
Site Work	0	294,037	3,107,529	0	3,401,565
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	90,502	440,315	729,907	0	1,260,724
CM Fees and Costs	100,393	569,108	1,127,900	0	1,797,402
Estimated Costs	1,372,039	6,716,428	11,227,827	0	19,316,294

### **Certificate by Registered Architect**

4m 0.4m	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nun	nber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	DR DISCUSS	ION P	JRPOSE ONLY		BARTO	N MALOW B	UILDEF
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	Data	11/17/23
building Froject Work List	Site	SIZE.	42.57				11/1//23
tegory					Direct	Total	
Subcategory	04	11-24	Unit Cont	Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
W CONSTRUCTION							
build addition for career tech programs	5,000	sqft	350.00	1,750,000	2,025,844	2,676,788	2
	5,000	sqft		SUBTOTAL:	2,025,844	2,676,788	
MODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	33,500	sqft	25.47	853,245	987,738	1,305,118	3
roof work - priority 2	11,100	sqft	30.37	337,107	390,243	515,637	3
Envelope							_
replace exterior masonry	1	lpsm	5,100.00	5,100	5,904	7,801	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials replace EIFS with metal panels	1 2,960	lpsm	15,000.00 70.00	15,000 207,200	17,364 239,860	22,944	3 3
replace select exterior doors		ea	5,500.00	132,000	152,807	316,932 201,906	3 1
replace select exterior abors	24	Ca	· · · · · · · · · · · · · · · · · · ·	Vork Subtotal:	1,819,384	2,403,988	- '
Interior Work			LACOTO: V	vork oubtotut.	1,017,004	2,400,700	
replace casework (countertops and hardware)	1	lpsm	225,000.00	225,000	260,466	344,158	3
replace interior openings	1	allo	50,000.00	50,000	57,881	76,480	3
gypsum assemblies & repaint walls, frames, and doors	1	lpsm	80,000.00	80,000	92,610	122,367	3
renovate toilet room & locker room	1,250	lpsm	275.00	343,750	397,934	525,798	3
replace carpet (4 rooms)	7,286	lpsm	9.00	65,600	75,940	100,341	3
replace VCT flooring (classrooms and workrooms)	17,916	sqft	8.00	143,300	165,888	219,191	3
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	38,240	3
renovate kitchen (walk-ins & serving line)	1	lpsm	650,000.00	650,000	752,456	994,235	2
improve arts program (dance studio floor)	5 000	lpsm	25,000.00	25,000	28,941	38,240	2
remodeling for addition (connection allowance)	5,000	sqrt	25.00	125,000 Vork Subtotal:	144,703 <b>2,005,759</b>	191,199 <b>2,650,249</b>	2
Mechanical Systems			interior v	voik Subtotat.	2,003,137	2,030,247	
Plumbing Work							
replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	119,500.00	119,500	138,336	182,786	3
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	74,680.00	74,680	86,451	114,230	3
HVAC System							
replace select RTUs, chillers, classroom units, refurbish mezz. AHU units	1	lpsm	654,410.00	654,410	757,561	1,000,981	3
replace mdf/idf air conditioning	8	ea	15,000.00	120,000	138,915	183,551	1
Integrated Automation							
Integrated Automation upgrade temperature control system	140,891	sqft	6.00	845,346	978,594	1,293,035	3
upgrade temperature control system	140,891	sqft	6.00 Mechanical Syst		978,594 <b>2,099,858</b>	1,293,035 <b>2,774,584</b>	3
upgrade temperature control system  Electrical Systems	140,891	sqft					3
upgrade temperature control system  Electrical Systems  Power	·	·	Mechanical Syst	ems Subtotal:	2,099,858	2,774,584	
Electrical Systems  Power  upgrade electrical systems - Priority 1	24,950	sqft	Mechanical Syst	ems Subtotal: 174,650	<b>2,099,858</b> 202,179	<b>2,774,584</b> 267,143	1
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC	24,950 1	sqft lpsm	7.00 75,000.00	ems Subtotal: 174,650 75,000	<b>2,099,858</b> 202,179 86,822	<b>2,774,584</b> 267,143 114,719	1 1
Electrical Systems  Power  upgrade electrical systems - Priority 1  emergency generator for JAPAC electrical to support technology	24,950 1	sqft	Mechanical Syst	ems Subtotal: 174,650	<b>2,099,858</b> 202,179	<b>2,774,584</b> 267,143	1
Electrical Systems  Power  upgrade electrical systems - Priority 1  emergency generator for JAPAC  electrical to support technology  Lighting	24,950 1 42	sqft lpsm ea	7.00 75,000.00 1,500.00	174,650 75,000 63,000	2,099,858 202,179 86,822 72,930	2,774,584 267,143 114,719 96,364	1 1 2
Electrical Systems  Power  upgrade electrical systems - Priority 1  emergency generator for JAPAC  electrical to support technology  Lighting  upgrade building exterior lighting	24,950 1 42 62	sqft lpsm ea	7.00 75,000.00	174,650 75,000 63,000	2,099,858 202,179 86,822 72,930 61,007	2,774,584 267,143 114,719 96,364 80,610	1 1
Electrical Systems  Power  upgrade electrical systems - Priority 1  emergency generator for JAPAC  electrical to support technology  Lighting	24,950 1 42 62 44,616	sqft lpsm ea	7.00 75,000.00 1,500.00 850.00	174,650 75,000 63,000	2,099,858 202,179 86,822 72,930	2,774,584 267,143 114,719 96,364	1 1 2 3
Electrical Systems  Power  upgrade electrical systems - Priority 1  emergency generator for JAPAC  electrical to support technology  Lighting  upgrade building exterior lighting  upgrade classroom lighting	24,950 1 42 62 44,616	sqft lpsm ea ea sqft	7.00 75,000.00 1,500.00 850.00 6.50	174,650 75,000 63,000 52,700 290,004	2,099,858 202,179 86,822 72,930 61,007 335,716	2,774,584 267,143 114,719 96,364 80,610 443,588	1 1 2 3 3
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting	24,950 1 42 62 44,616 1	sqft lpsm ea ea sqft	7.00 75,000.00 1,500.00 850.00 6.50	174,650 75,000 63,000 52,700 290,004	2,099,858 202,179 86,822 72,930 61,007 335,716	2,774,584 267,143 114,719 96,364 80,610 443,588	1 1 2 3 3
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting Electronic Safety & Security	24,950 1 42 62 44,616 1	sqft lpsm ea ea sqft lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal:	2,099,858 202,179 86,822 72,930 61,007 335,716 405,169 17,364 1,181,187	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944 1,560,726	1 1 2 3 3 2
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel	24,950 1 42 62 44,616 1	sqft lpsm ea ea sqft lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst	174,650 75,000 63,000 52,700 290,004 350,000	2,099,858 202,179 86,822 72,930 61,007 335,716 405,169 17,364	2,774,584 267,143 114,719 96,364 80,610 443,588 535,358 22,944	1 1 2 3 3 2
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel	24,950 1 42 62 44,616 1	sqft lpsm ea ea sqft lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal:	2,099,858 202,179 86,822 72,930 61,007 335,716 405,169 17,364 1,181,187 7,106,188	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548	1 1 2 3 3 2
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel  Technology Infrastructure  data cabling for renovations	24,950 1 42 62 44,616 1	sqft lpsm ea ea sqft lpsm lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst Construct	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal: tion Subtotal:	2,099,858  202,179 86,822 72,930  61,007 335,716 405,169  17,364 1,181,187 7,106,188	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548	1 1 2 3 3 2 3
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel  Technology Infrastructure  data cabling for renovations demo coax/legacy cables	24,950 1 42 62 44,616 1 1	sqft lpsm ea ea sqft lpsm lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst Construct 10,000.00 10,000.00	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal: tion Subtotal:	2,099,858  202,179 86,822 72,930  61,007 335,716 405,169  17,364  1,181,187 7,106,188	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548  14,198 14,198	1 1 2 3 3 2 3
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel  Technology Infrastructure  data cabling for renovations demo coax/legacy cables replace cabling infrastructure	24,950 1 42 62 44,616 1 1 1 1	sqft lpsm ea ea sqft lpsm lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00  15,000.00  Electrical Syst Construct 10,000.00 10,000.00 0.65	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal: tion Subtotal:	2,099,858  202,179 86,822 72,930 61,007 335,716 405,169 17,364 1,181,187 7,106,188  11,576 11,576 106,014	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548  14,198 14,198 130,027	1 1 2 3 3 2 3
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting upgrade fire alarm panel  Electronic Safety & Security upgrade fire alarm panel  Technology Infrastructure  data cabling for renovations demo coax/legacy cables replace cabling infrastructure replace fiber to IDFs	24,950 1 42 62 44,616 1 1 1 140,891 7	sqft lpsm ea ea sqft lpsm lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00 15,000.00 Electrical Syst Construct 10,000.00 10,000.00 0.65 3,500.00	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal: 10,000 10,000 91,579 24,500	2,099,858  202,179 86,822 72,930 61,007 335,716 405,169 17,364 1,181,187 7,106,188  11,576 11,576 106,014 28,362	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548  14,198 14,198 130,027 34,786	1 1 2 3 3 2 3 2 2 2 2 2
Electrical Systems  Power  upgrade electrical systems - Priority 1 emergency generator for JAPAC electrical to support technology  Lighting  upgrade building exterior lighting upgrade classroom lighting upgrade theater lighting Electronic Safety & Security upgrade fire alarm panel  Technology Infrastructure  data cabling for renovations demo coax/legacy cables replace cabling infrastructure	24,950 1 42 62 44,616 1 1 1 1	sqft lpsm ea ea sqft lpsm lpsm	7.00 75,000.00 1,500.00 850.00 6.50 350,000.00  15,000.00  Electrical Syst Construct 10,000.00 10,000.00 0.65	174,650 75,000 63,000 52,700 290,004 350,000 15,000 ems Subtotal: tion Subtotal:	2,099,858  202,179 86,822 72,930 61,007 335,716 405,169 17,364 1,181,187 7,106,188  11,576 11,576 106,014	2,774,584  267,143 114,719 96,364  80,610 443,588 535,358  22,944  1,560,726 9,389,548  14,198 14,198 130,027	1 1 2 3 3 2 3

'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	/ - FOR DISCUSSION PURPOSE ONLY				BARTO	N MALOW B	UILDEI
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	Site	Size:	42 57		1.158	Date:	11/17/2
<u> </u>	3.1.0	JIEC.	42.07				, .,,2
tegory Sub-ob-org				Discot	Direct	Total	Dhaaa
Subcategory  Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase Serie
Description	uly	UIIIL	UIIII CUSI	Cust	ESCALACION	CUSIS	Serie
replace rack UPS	8	ea	1,200.00	9,600	11,113	13,630	1
update wireless infrastructure	64	ea	1,200.00	76,800	88,906	109,043	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
		Techi	nology Infrastruc	ture Subtotal:	489,072	599,847	
Technology Safety & Security	95		1 500 00	1/2 500	1// 0/2	202 225	2
upgrade security camera system replace entrance intercoms	3	ea ea	1,500.00 3,500.00	142,500 10,500	164,962 12,155	202,325 14,908	2 1
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1
upgrade access control system upgrade access control headend		lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	140,891	•	0.60	84,535	97,859	120,025	2
replace PA systems	140,891		0.50	70,446	81,549	100,020	2
Topiace 1710/stems			ogy Safety & Secu		431,771	529,567	
			Safety Infrastruct	•	920,844	1,129,415	
			REMODELIN	G SUBTOTAL:	8,027,031	10,518,962	
TE WORK							
Site Paving							
repave north lots and install UG stormwater structure, replace sidewalks	142,000	sqft	12.00	1,704,000	1,972,593	2,606,427	3
repave west and south lots	137,200	•	7.00	960,400	1,111,783	1,469,021	3
· ·			Site Pa	ing Subtotal:	3,084,376	4,075,448	
Site Improvements							
site work for addition	5,000	sqft	50.00	250,000	289,406	382,398	2
replace playground paved surfaces	400	sqft	10.00	4,000	4,631	6,118	2
replace fences, gates, screen walls, and site furnishings	1	lpsm	5,000.00	5,000	5,788	7,648	3
update storage facilities	1	lpsm	15,000.00	15,000	17,364	22,944	3
			Site Improvem	K SUBTOTAL:	317,189	419,108	
			JIL WON	K JUDIUIAL.	3,401,565	4,494,556	
STRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices			1.050.00	(1.050	70.005	2/ 2//	
teacher computers (desktop + 1:1 device)	49	each	1,250.00	61,250	70,905	86,964	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2
student desktops	69	each	800.00	55,200	63,901	78,374	1
mobile devices: 6-12	95 39	each	350.00 400.00	33,110	38,329	47,010	1
mobile device storing/charging (classroom) mobile device storing/charging (carts)	2	each	1,500.00	15,600	18,059 3,473	22,149	1
refresh devices - series 2	1	each allo	97,141.00	3,000 97,141	112,453	4,259 137,923	1 2
Audiovisual	'	atto	77,141.00	77,141	112,433	137,723	Z
classroom AV (display, sound, PA, doc camera)	39	each	9,000.00	351,000	406,326	498,359	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	, 7,099	2
large group sound systems	1	each	30,000.00	30,000	34,729	42,595	2
auditorium audiovisual	1	lpsm	150,000.00	150,000	173,644	212,974	2
	INST	RUCTIO	NAL TECHNOLOG	Y SUBTOTAL:	997,064	1,222,898	
JRNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	51	each	400.00	20,400	23,616	28,964	1
	N	on-Ins	tructional Equipm	ent Subtotal:	39,243	48,132	
Furniture, Furnishings & Equipment (FFE)							
purchase furniture	1	lpsm	250,000.00	250,000	289,406	354,957	3
				,&E Subtotal:	289,406	354,957	
			F, F, &	E SUBTOTAL:	328,650	403,089	
			PRO	DJECT TOTAL:	14,780,153	19,316,294	
				Contingency:	1,478,015		

L'ANSE CREUSE PUBLIC SCHOOLS PRELI	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY				BARTON MALOW BUILDERS				
2024 Bond Program	Gr	ades:	9-12						
Pankow / Performing Arts Center	Year	Built:	1974						
24600 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size:	140,891						
Building Project Work List	Site	Size:	42.57		1.158	Date:	11/17/23		
Category					Direct	Total			
Subcategory				Direct	w/	w/ Indirect	Phase /		
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series		
Scope of work is conceptual and will be detailed throughout the de	sign phase		Desig	n Consultants:	1,260,724				
Indirect Costs include; contingency, general conditions & profession	onal fees			C.M. Costs:	1,245,923				
			BUI	LDING TOTAL:	19.316.294				

Pellerin Center (Riverside	Project No. [n]	18			
Proposal #:	Series 1	Series 2	Series 3	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	g New stand-alone blo	New stand-alone blo	New stand-alone blo	ig
	✓ 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 Pe	r Square Foot			* includes escalation	
New Stand-Alone C	onstruction Square Ft	n/a	Cost per Sq Ft	n/a	
Ne	w Addition Square Ft.	2,500	Cost per Sq Ft	\$405	*
Does this proposed projec	t address any existing	g 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	Series 3	n/a	Total
New Construction	1,012,922	0	0	0	1,012,922
Remodeling	292,185	253,520	1,045,405	0	1,591,109
Construction Contingencies	168,249	76,727	175,237	0	420,213
Instructional Technology	203,163	513,754	0	0	716,917
Loose Furnishing/Equipment	29,519	0	57,881	0	87,401
Buses	0	0	0	0	0
Site Work	144,703	0	649,080	0	793,783
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	142,979	63,420	150,162	0	356,562
CM Fees and Costs	189,775	37,097	232,183	0	459,056
Estimated Costs	2,183,496	944,519	2,309,948	0	5,437,964

### **Certificate by Registered Architect**

	11/28/2023	PARTNERS in Architecture, PLC #4472	23
Signature	Date	Firm Name and License Nur	mber
Michael A. Malone, AIA	mmalone@partners	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMIN	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY				BARTON MALOW BUILDERS			
2024 Bond Program	Gr	ades:	9-12					
Pellerin Center	Year	Built: 2	2009					
24001 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size: 3	37,897					
Building Project Work List	Site	Size: 3	3.15		1.158	Date:	11/17/23	
Category					Direct	Total		
Subcategory				Direct	w/	w/ Indirect	Phase /	
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series	
NEW CONSTRUCTION								
build multi-purpose addition	2,500	sqft	350.00	875,000	1,012,922	1,338,394	1	
	2,500			SUBTOTAL:	1,012,922	1,338,394		
REMODELING WORK								
Exterior Work								
Roofing								
roof work - priority 2	1	lpsm	1,500.00	1,500	1,736	2,294	3	
Envelope	1	Incm	22 000 00	22 000	25 770	22 451	2	
upgrade select exterior glazing replace select exterior envelop materials	1	lpsm lpsm	22,000.00 71,500.00	22,000 71,500	25,468 82,770	33,651 109,366	3 3	
reroute roof overflow drainage	1	lpsm	17,500.00	17,500	20,258	26,768	3	
	·		•	Vork Subtotal:	130,233	172,079	-	
Interior Work								
gypsum assemblies & repaint walls, frames, and doors	1	lpsm	10,000.00	10,000	11,576	15,296	3	
toilet room & locker room renovation	800	sqft	275.00	220,000	254,678 197 535	336,510	3	
replace carpet (classrooms, media center, offices) replace VCT flooring (classrooms and workrooms)	18,000 1,000	lpsm sqft	9.00 8.00	162,000 8,000	187,535 9,261	247,794 12,237	3 3	
replace architectural trim out/specialties	1,000	lpsm	15,000.00	15,000	17,364	22,944	3	
remodeling for addition (connection allowance)	2,500	•	25.00	62,500	72,352	95,600	1	
	•		Interior V	Vork Subtotal:	552,766	730,381		
Mechanical Systems								
Plumbing Work	1		20,000,00	20.000	22.152	20 502	2	
replace water heater select replace toilet replace toilet room sink, toilet, & urinal bodies	1 1	lpsm lpsm	20,000.00 29,160.00	20,000 29,160	23,153 33,756	30,592 44,603	3 3	
HVAC System	'	ιμσιιι	27,100.00	27,100	33,730	44,003	3	
replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1	
Integrated Automation			,	,	•	,		
upgrade temperature control system	34,970	sqft	6.00	209,800	242,870	320,909	3	
Floatrical Customs			Mechanical Syst	ems Subtotal:	334,507	441,991		
Electrical Systems Power								
electrical to support technology	21	ea	1,500.00	31,500	36,465	48,182	2	
Lighting			,	, , , , , ,	,	,		
upgrade building exterior lighting	18	ea	850.00	15,300	17,712	23,403	3	
upgrade classroom lighting	15,580	sqft	6.50	101,300	117,267	154,948	3	
			Electrical Syst		171,444	226,533		
Technology Infrastructure			Construc	tion Subtotal:	1,188,950	1,570,984		
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2	
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2	
replace fiber to IDFs	1	ea	3,500.00	3,500	4,052	4,969	2	
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1	
replace network switches - edge	12	ea	4,000.00	48,000	55,566	68,152	1	
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1	
update wireless infrastructure	27	ea Insm	1,200.00	32,400	37,507	46,002	2	
upgrade phone system	1	lpsm Techi	25,000.00 nology Infrastruc	25,000 ture Subtotal:	28,941 <b>162,415</b>	35,496 <b>199,202</b>	1	
Technology Safety & Security		. 55111			. 52,410	. , , , 202		
upgrade security camera system	60	ea	1,500.00	90,000	104,186	127,784	2	
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1	
upgrade access control system	10	ea	4,500.00	45,000	52,093	63,892	1	
upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1	
install emergency alert system	37,897 37,897		0.60 0.50	22,700 18,900	26,278 21,879	32,230 26,835	2 2	
replace PA systems	37,897		ogy Safety & Secu		21,879 <b>239,744</b>	26,835 <b>294,046</b>		
			Safety Infrastruc	-	402,159	493,248		
		J,	-	IG SUBTOTAL:	1,591,109	2,064,232		
SITE WORK								

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	OR DISCUSS	ION PU	RPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	9-12				
Pellerin Center	Year	Built: 2	2009				
24001 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size: 3	37.897				
Building Project Work List		Size: 3			1.158	Date	11/17/23
Building Project Work List	Site	SIZE.	5.15		1.130	Date.	11/1//23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
Site Paving							
replace parking lot, replace sidewalks	73,000	saft	7.40	540,200	625,349	826,286	3
				ring Subtotal:	625,349	826,286	-
Site Improvements				3	•	•	
site work for addition	2,500	sqft	50.00	125,000	144,703	191,199	1
replace fences, gates, screen walls, and site furnishings	1	lpsm	5,500.00	5,500	6,367	8,413	3
update storage facilities	1	lpsm	15,000.00	15,000	17,364	22,944	3
			Site Improvem	ent Subtotal:	168,434	222,556	
			SITE WOR	K SUBTOTAL:	793,783	1,048,842	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	28	each	1,250.00	35,000	40,517	49,694	2
admin staff computers	20	each	1,000.00	20,000	23,153	28,397	2
student desktops	69	each	800.00	55,200	63,901	78,374	1
mobile devices: 6-12	315	each	350.00	110,100	127,455	156,323	1
mobile device storing/charging (classroom)	18	each	400.00	7,200	8,335	10,223	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	181,830.00	181,800	210,456	258,125	2
Audiovisual	·	atto	101,000.00	101,000	210,400	200,120	_
classroom AV (display, sound, PA, doc camera)	18	each	9,000.00	162,000	187,535	230,012	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	1	each	5,000.00	5,000	5,788	7,099	2
digital signage displays	1	allo	5,000.00	5,000	5,788	, 7,099	2
	INST	RUCTIO	NAL TECHNOLOG		716,917	879,299	
FURNITURE FURNICUINGS AND FOURMENT							
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment		lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	12,000	13,892	17,038	1
purchase radio / watkie tatkies			tructional Equipm		29,519	36,206	'
Furniture, Furnishings & Equipment (FFE)	•		actionat Equipin		27,017	00,200	
purchase furniture	1	lpsm	50,000.00	50,000	57,881	70,991	3
<u>'</u>			•	,&E Subtotal:	57,881	70,991	
				E SUBTOTAL:	87,401	107,197	
				DJECT TOTAL:	<b>4,202,132</b>	5,437,964	
Natas				Contingency:	420,213		
Notes:			Permits / General		131,809		
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	356,562 327.247		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs: DING TOTAL:	327,247 <b>5,437,964</b>		

Wheeler Community Center	Project No. [n]	19			
Proposal #:	Series 1	Series 2	Series 3	n/a	
	New stand-alone bld	New stand-alone blo	New stand-alone blo	New stand-alone blo	g
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 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	g 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	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	262,665	284,284	958,716	0	1,505,665
Construction Contingencies	35,678	73,833	175,183	0	284,694
Instructional Technology	70,152	454,044	0	0	524,196
Loose Furnishing/Equipment	23,963	0	0	0	23,963
Buses	0	0	0	0	0
Site Work	0	0	793,112	0	793,112
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	29,606	60,964	150,307	0	240,877
CM Fees and Costs	20,466	33,917	237,408	0	291,790
Estimated Costs	442,530	907,040	2,314,726	0	3,664,296

### **Certificate by Registered Architect**

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

4 Q. W	11/28/2023	PARTNERS in Architecture, PLC #	<del>*</del> 44723
Signature	Date	Firm Name and Licer	nse Number
Michael A. Malone, AIA	mmalone@partne	ersinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

	PRELIMINARY - FOR DISCUSS				BARIU	ON MALOW B	
4 Bond Program	Gr	ades:	n/a				n/a
eler Community Center	Year	Built:	2004				
76 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size:	48900				n/a
ding Project Work List	Site	Size:			1.158	Date:	11/17/2
у					Direct	Total	
ategory Description	Qty	Unit	Unit Cost	Direct Cost	w/ Escalation	w/ Indirect Costs	Phase Serie
	uty	Ullit	Offic Cost	Cust	ESCALATION	CUSIS	36116
ELING WORK							
ior Work ofing							
roof work - priority 2	1	lpsm	900.00	900	1,042	1,377	3
velope							
replace exterior masonry	1	lpsm	50,000.00	50,000	57,881	76,480	3
upgrade select exterior glazing	1	lpsm	23,750.00	23,750	27,494	36,328	3
replace select exterior envelop materials	1	lpsm	7,850.00	7,850	9,087	12,007	3
an Wante			Exterior W	ork Subtotal:	95,504	126,191	
or Work replace interior openings	1	lpsm	1,000.00	1,000	1,158	1,530	3
renovate toilet room & locker room	800	sqft	275.00	220,000	254,678	336,510	3
replace architectural trim out/specialties	1	lpsm	137.000.00	137,000	158,595	209,554	3
F	·	-Politi		ork Subtotal:	414,430	547,594	<u> </u>
anical Systems						. ,	
umbing Work							
replace water heater, valves, and new water bottle fil	ling station 1	lpsm	73,500	73,500	85,085	112,425	3
replace select plumbing in toilet rooms	1	lpsm	57,000.00	57,000	65,985	87,187	3
AC System							
replace pumps, valves, office units	1	lpsm	141,000.00	141,000	163,225	215,673	3
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1
egrated Automation	40.000						_
upgrade temperature controls	48,900	ea	1.75 Mechanical Syste	85,575	99,064 <b>465,452</b>	130,895 <b>615,011</b>	3
rical Systems			Mechanicatoyste	ilis Subtotat.	403,432	013,011	
wer							
electrical to support technology	9	ea	1,500.00	13,500	15,628	20,650	2
yhting							
upgrade building exterior lighting	36	ea	850.00	30,600	35,423	46,806	3
			Electrical Syste		51,051	67,455	
			Construct	ion Subtotal:	1,026,437	1,356,252	
nology Infrastructure data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2
data cabling for renovations demo coax/legacy cables	1		10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	48,900	lpsm cf	0.65	31,785	36,795	45,129	2
replace fiber to IDFs		ea	3,500.00	3,500	4,052	43,127	2
replace network switches - core/aggregate	' 1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	15	ea	4,000.00	60,000	69,458	85,190	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1
update wireless infrastructure	40	ea	1,200.00	48,000	55,566	68,152	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
		Tech	nology Infrastruct	ure Subtotal:	242,737	297,716	
nology Safety & Security				==	a:	40	
upgrade security camera system	50	ea	1,500.00	75,000	86,822	106,487	2
replace entrance intercoms	3	ea	3,500.00	10,500	12,155	14,908	1
upgrade access control system	10	ea Insm	4,500.00	45,000	52,093	63,892	1
upgrade access control headend install emergency alert system	1 48,900	lpsm cf	20,000.00 0.60	20,000 29,340	23,153 33,965	28,397 41,658	1
replace PA systems	48,900 48,900		0.50	29,340 24,450	28,304	41,658 34,715	2 2
reptace i Abybiellib			ogy Safety & Secu		236,491	290,056	
			Safety Infrastruct	-	479,228	587,773	
	icamo	g, u	-	G SUBTOTAL:	1,505,665	1,944,025	
DRK					•	-	
Paving							
repave lot & sidewalks, install UG stormwater structu	re 45,500	sqft	12.64	575,120	665,773	879,700	3
<u> </u>	ire 45,500	sqft		575,120 ing Subtotal:	665,773 <b>665,773</b>	879,70	

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FOR	R DISCUSS	ION P	URPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	n/a				n/a
Wheeler Community Center	Year	Built:	2004				
24076 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size.	/8900				n/a
	J		40700		1 150		
Building Project Work List	Site	Size:			1.158	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
Site Improvements							
replace fences, gates, screen walls, and site furnishings	1	lpsm	5,000.00	5,000	5,788	7,648	3
upgrade site sign - digital	1	lpsm	100,000.00	100,000	115,763	152,959	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	3
			Site Improvem		127,339	168,255	
			SITE WOR	(SUBTOTAL:	793,112	1,047,955	
INSTRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	16	each	1,250.00	20,000	23,153	28,397	2
admin staff computers	45	each	1,000.00	45,000	52,093	63,892	2
student desktops	69	each	800.00	55,200	63,901	78,374	1
mobile device storing/charging (classroom)	6	each	400.00	2,400	2,778	3,408	1
mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
refresh devices - series 2	1	allo	60,720.00	60,720	70,291	86,212	2
Audiovisual							
classroom AV (display, sound, PA, doc camera)	6	each	9,000.00	54,000	62,512	76,671	2
av for collaboration spaces	1	lpsm	35,000.00	35,000	40,517	49,694	2
conference room / IEP	7	each	5,000.00	35,000	40,517	49,694	2
digital signage displays	1	allo	5,000.00	5,000	5,788	7,099	2
board room audiovisual	1	lpsm	137,500	137,500	159,173	195,226	2
	INSTI	RUCTIO	ONAL TECHNOLOG	Y SUBTOTAL:	524,196	642,926	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies		each	400.00	7,200	8,335	10,223	1
	N	on-Ins	tructional Equipm		23,963	29,390	
			F, F, &	E SUBTOTAL:	23,963	29,390	
			PRO	JECT TOTAL:	2,846,936	3,664,296	
			Construction	Contingency:	284,694		
Notes:			Permits / Genera	l Conditions:	80,060		
Scope of work is conceptual and will be detailed throughout the design phase			Design	Consultants:	240,877		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	211,730		
			BUIL	DING TOTAL:	3,664,296		

Brender Support Services	Project No. [n]	20			
Proposal #:	Series 1	Series 2	Series 3	n/a	
The associated Cost	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	<u></u>
	✓ 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
preakdown 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	_
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**

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	0	0	0	0	0
Remodeling	1,273,388	541,440	2,250,398	0	4,065,225
Construction Contingencies	129,341	58,775	234,248	0	422,363
Instructional Technology	0	0	0	0	0
Loose Furnishing/Equipment	20,027	46,305	0	0	66,332
Buses	988,929	1,990,838	3,520,234	0	6,500,001
Site Work	0	0	92,077	0	92,077
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	107,125	48,506	200,984	0	356,616
CM Fees and Costs	68,511	26,338	317,452	0	412,301
Estimated Costs	2,587,321	2,712,201	6,615,393	0	11,914,915

### **Certificate by Registered Architect**

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

un a.un	11/28/2023	PARTNERS in Architecture, PLC #447	23
Signature	Date	Firm Name and License Nu	mber
Michael A. Malone, AIA	mmalone@partne	rsinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMI	NARY - FOR DISCUSS	SION PL	IRPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Gr	ades: 1	n/a				n/a
Brender Support Services Center	Year	Built:	1975				
24400 F.V.Pankow Blvd, Clinton Twp, MI	Building	Size:	31,438				n/a
Building Project Work List	-		nc w/ Pankow		1.158	Date:	11/17/23
<u> </u>					Direct	Total	
Category Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
REMODELING WORK							
Exterior Work							
Roofing							
roof work - priority 1	27,730	sqft	25.00	693,250	802,524	1,060,390	3
roof work - priority 2	1	lpsm	12,600.00	12,600	14,586	19,273	3
Envelope			00 000 00	00.000	05.440	00 /51	0
upgrade select exterior glazing replace select exterior doors	1 9	•	22,000.00 5,500.00	22,000 49,500	25,468 57,302	33,651 75,715	3 1
replace select exterior doors	7	еа		ork Subtotal:	899,880	1,189,029	ı
Interior Work			Exterior II	OI K GUDIOIUI.	077,000	1,107,027	
replace casework (countertops and hardware)	1	lpsm	3,000.00	3,000	3,473	4,589	3
replace interior openings (includes overhead doors)	1	lpsm	225,000.00	225,000	260,466	344,158	3
replace drywall partitions & paint due to construction	1	lpsm	25,000.00	25,000	28,941	38,240	3
renovate toilet room & locker room	400	'	275.00	110,000	127,339	168,255	3
replace carpet ( offices)	4,500	•	9.00	40,500	46,884	61,949	3
replace VCT flooring (classrooms and workrooms)	1,000		8.00	8,000	9,261	12,237	3
replace ceilings replace architectural trim out/specialties	75 1	sqft lpsm	10.00 12,000.00	800 12,000	926 13,892	1,224 18,355	3 3
renovate transportation office and lounge	2,575	•	50.00	128,800	149,102	197,012	3
Terrovate transportation office and today	2,010	Jqit		ork Subtotal:	640,282	846,018	
Mechanical Systems					•		
Plumbing Work							
replace hot water heater and select piping	1	lpsm	57,000.00	57,000	65,985	87,187	3
HVAC System		_					
replace select roof top and chiller equipment	1	lpsm	397,000.00	397,000	459,577	607,248	3 1
replace mdf/idf air conditioning Integrated Automation	1	ea	30,000.00	30,000	34,729	45,888	1
upgrade temperature control system	31,438	saft	6.00	188,628	218,360	288,524	3
apgrado temperataro controtoyetem	0.7.00		Mechanical Syste		778,651	1,028,847	
Electrical Systems							
Power							
electrical to support technology		ea	1,500.00	4,500	5,209	6,883	2
replace data center room UPS	2	ea	15,000.00	30,000	34,729	45,888	1
<b>Lighting</b> upgrade building exterior lighting	24	ea	850.00	20,400	23,616	31,204	3
apgrade building exterior lighting		ca	Electrical Syste		63,554	83,975	3
				tion Subtotal:	2,382,367	3,147,869	
Technology Infrastructure							
data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2
demo coax/legacy cables	1		10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	31,438		0.65	20,435	23,656	29,014	2
replace fiber to IDFs	2	ea	3,500.00	10,500	12,155	14,908	2
replace network switches - core/aggregate replace network switches - edge	10		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
data center - series 1	1	lpsm	550,000.00	550,000	636,694	780,905	1
data center - series 2	1	lpsm	300,000.00	300,000	347,288	425,948	2
upgrade phone system	1		125,000.00	125,000	144,703	177,478	1
			ology Infrastruct		1,309,430	1,606,016	
Technology Safety & Security							
upgrade security camera system		ea	1,500.00	52,500	60,775	74,541	2
video surveillance servers	4		40,000.00	160,000	185,220	227,172	1
replace entrance intercoms	3		3,500.00	10,500	12,155	14,908	1
upgrade access control system	10		4,500.00	45,000	52,093	63,892	1
upgrade access control headend install emergency alert system	1 31,438		20,000.00 0.60	20,000 18,863	23,153	28,397 26,782	1 2
replace PA systems	31,438		0.50	18,863	21,836 18,197	26,782 22,318	2
теріасе і мізузісніз			gy Safety & Secu		373,429	458,010	

L'ANSE CREUSE PUBLIC SCHOOLS PRELI	MINARY - FOR DISCUSSION	ON P	URPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	Grad	les:	n/a				n/a
Brender Support Services Center	Year B	uilt:	1975				
24400 F.V.Pankow Blvd, Clinton Twp, MI	Building S	ize:	31.438				n/a
Building Project Work List	3		inc w/ Pankow		1.158		11/17/23
Category Subcategory Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
	Technolo	gy &	Safety Infrastruct REMODELIN	ure Subtotal: G SUBTOTAL:	1,682,859 4,065,225	2,064,026 5,211,895	
SITE WORK							
Site Improvements							
replace fences, gates, screen walls, and site furnishings	1 l	psm	18,140.00	18,140	20,999	27,747	3
update storage facilities	1 (	psm	61,400.00	61,400	71,078	93,917	3
			Site Improvem SITE WOR	ent Subtotal: K SUBTOTAL:	92,077 92,077	121,664 121,664	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
purchase admin staff computers	25	each	1,000.00	25,000	28,941	35,496	2
purchase mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
purchase plotters	1 6	ea	3,500.00	3,500	4,052	4,969	1
purchase STEM / robotics equipment	1 l	psm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	2 6	each	400.00	800	926	1,136	1
purchase conference room / IEP	2	each	5,000.00	10,000	11,576	14,198	2
purchase digital signage displays		allo	5,000.00	5,000	5,788	7,099	2
	No	n-Ins	tructional Equipm F, F, &	ent Subtotal: E SUBTOTAL:	66,332 66,332	81,356 81,356	
BUSES							
purchase buses	9 6	each	109,880.98	988,929	988,929	988,929	1
purchase buses	18 6	each	110,602.10	1,990,838	1,990,838	1,990,838	2
purchase buses	33 €	each	106,673.75	3,520,234	3,520,234	3,520,234	3
	60		BUSE	S SUBTOTAL:	6,500,001	6,500,001	
			PRO	JECT TOTAL:	10,723,635	11,914,915	
			Construction	Contingency:	422,363		
Notes:			Permits / Genera	al Conditions:	108,876		
Scope of work is conceptual and will be detailed throughout the de	sign phase		Design	Consultants:	356,616		
Indirect Costs include; contingency, general conditions & profession	nal fees			C.M. Costs:	303,426		
			BUIL	DING TOTAL:	11,914,915		

new Early Childhood Cent	ew Early Childhood Center					
Proposal #:	Series 1	Series 2	Series 3	n/a		
The associated Cost Detail page must include	✓ 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	
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			* includes escalation		
New Stand-Alone Co	onstruction Square Ft	41,500	Cost per Sq Ft	\$368	*	
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	Series 3	n/a	Total
New Construction	15,251,250	0	0	0	15,251,250
Remodeling	340,305	0	0	0	340,305
Construction Contingencies	1,479,051	0	0	0	1,479,051
Instructional Technology	297,150	0	0	0	297,150
Loose Furnishing/Equipment	357,525	0	0	0	357,525
Buses	0	0	0	0	0
Site Work	4,883,076	0	0	0	4,883,076
Site Acquisition	147,000	0	0	0	147,000
Architectural Fees and Costs	1,752,179	0	0	0	1,752,179
CM Fees and Costs	2,580,436	0	0	0	2,580,436
Estimated Costs	27,087,973	0	0	0	27,087,973

### **Certificate by Registered Architect**

I certify that I	have assessed	the conditions	relative to th	is facility	and the	details of	f the pr	oposed	project(s)	describe	d above	and the
attached deta	ail relative to the	construction p	roject(s) are	true and	correct t	to the bes	st of my	y knowle	edge and b	oelief.		

allached detail relative to the co	onstruction project(s) are true and correct	to the best of my knowledge and belief.	
4m 9.4m	11/28/2023	PARTNERS in Architecture, PLC #447	723
Signature	Date	Firm Name and License Nu	umber
Michael A. Malone, AIA	mmalone@partner	sinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

	RELIMINARY - FOR DISCUSS			BARTO	N MALOW B	UILDE	
2024 Bond Program		ades:					
ew Early Childhood Center		Built:					
Future Pankow Blvd Address	Building	Size:	44,000				
Building Project Work List	Site	Size:			1.050	Date:	11/17/2
tegory					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Serie
W CONSTRUCTION							
build new early childhood center	41,500	sqft	350.00	14,525,000	15,251,250	19,507,946	1
	41,500			SUBTOTAL:	15,251,250	19,507,946	-
MODELING WORK		•					
Technology Infrastructure							
install cabling infrastructure including fiber to the buildin	ia 1	lpsm	65,000.00	65,000	68,250	81,426	1
install network switches - core/aggregate	1	ea	9,000.00	9,000	9,450	11,274	1
install network switches - edge	7	ea	4,000.00	28,000	29,400	35,076	1
install rack UPS	1	ea	1,200.00	1,200	1,260	1,503	1
install wireless infrastructure	20	ea	1,200.00	24,000	25,200	30,065	1
install phone system	1	lpsm	25,000.00	25,000	26,250	31,318	1
Took od a Carta CC . "		Tech	nology Infrastruc	ture Subtotal:	159,810	190,661	
Technology Safety & Security	20	00	1 500 00	20.000	21 500	27 501	1
install security camera system install entrance intercoms	20	ea	1,500.00 3,500.00	30,000 10,500	31,500 11,025	37,581 13,153	1 1
install access control system	10	ea ea	3,500.00 4,500.00	45,000	11,025 47,250	13,153 56,372	1
install access control system	10	lpsm	20,000.00	20,000	21,000	25,054	1
install emergency alert system	41,500		0.80	33,200	34,860	41,590	1
install PA systems	41,500		0.80	33,200	34,860	41,590	1
	т	echnol	ogy Safety & Sec	urity Subtotal:	180,495	215,340	
			Safety Infrastruc	-	340,305	406,001	
			REMODELIN	IG SUBTOTAL:	340,305	406,001	
TE WORK							
Site Paving							
build new parking lot	1	lpsm	1,503,848.37	1,503,848	1,579,041	2,019,759	1
site work for new building	41,500		50.00	2,075,000	2,178,750	2,786,849	1
pave Barbret Street	1	lpsm	750,000.00	750,000	787,500	1,007,295	1
Site Improvements			Site Pa	ving Subtotal:	4,545,291	5,813,903	
add playground equipment	1	lpsm	250,000.00	250,000	262,500	335,765	1
add playground soft surfaces	2,868		25.00	71,700	75,285	96,297	1
	,			nent Subtotal:	337,785	432,062	
			SITE WOI	RK SUBTOTAL:	4,883,076	6,245,965	
STRUCTIONAL TECHNOLOGY							
Computers and Mobile Devices							
teacher computers (desktop + 1:1 device)	20	each	1,250.00	25,000	26,250	31,318	1
admin staff computers	3	each	1,000.00	3,000	3,150	3,758	1
Audiovisual							
classroom AV (display, sound, PA, doc camera)	20	each	9,000.00	180,000	189,000	225,486	1
av for collaboration spaces	1	lpsm	35,000.00	35,000	36,750	43,845	1
conference room / IEP	1	each	5,000.00	5,000	5,250	6,264	1
digital signage displays	1	allo each	5,000.00 30,000.00	5,000 30,000	5,250 31 500	6,264 37 581	1
large group sound systems	INICT		ONAL TECHNOLOG	30,000 SY SUBTOTAL:	31,500 <b>297,150</b>	37,581 <b>354,515</b>	<u> </u>
	111311		THE TECHNOLOGY	JI SOBIOTAL:	277,100		
RNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment		0.0	25 000 00	25.000	2/ 252	21 210	1
purchase copiers purchase plotters	1	ea ea	25,000.00 3,500.00	25,000 3,500	26,250 3,675	31,318	1 1
purchase plotters purchase radio / walkie-talkies	3U I	ea each	3,500.00 400.00	3,500 12,000	3,675 12,600	4,384 15,032	1
Parchase radio / warkie rarkies			structional Equipr		42,525	50,734	- 1
Furniture, Furnishings & Equipment (FFE)	ıv	III3	actionat Equipi	Jubiliai.	72,323	30,734	
purchase furniture	1	lpsm	300,000.00	300,000	315,000	375,811	1
				,&E Subtotal:	315,000	375,811	
			F, F, 8	E SUBTOTAL:	357,525	426,545	
TE ACQUISITION							

L'ANSE CREUSE PUBLIC SCHOOLS	PRELIMINARY - FOR DISCUS	SION P	URPOSE ONLY		BARTO	N MALOW B	UILDERS
2024 Bond Program	G	rades:	preK				
New Early Childhood Center	Yea	r Built:	TBD				
Future Pankow Blvd Address	Buildin	g Size:	44,000				
Building Project Work List	Sit	e Size:			1.050	Date:	11/17/23
Category					Direct	Total	
Subcategory				Direct	w/	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escalation	Costs	Series
			SITE ACQUISITION	ON SUBTOTAL:	147,000	147,000	
			PR	OJECT TOTAL:	21,276,306	27,087,973	
			Constructio	n Contingency:	1,479,051		
Notes:			Permits / Gene	ral Conditions	754.031		

Design Consultants:

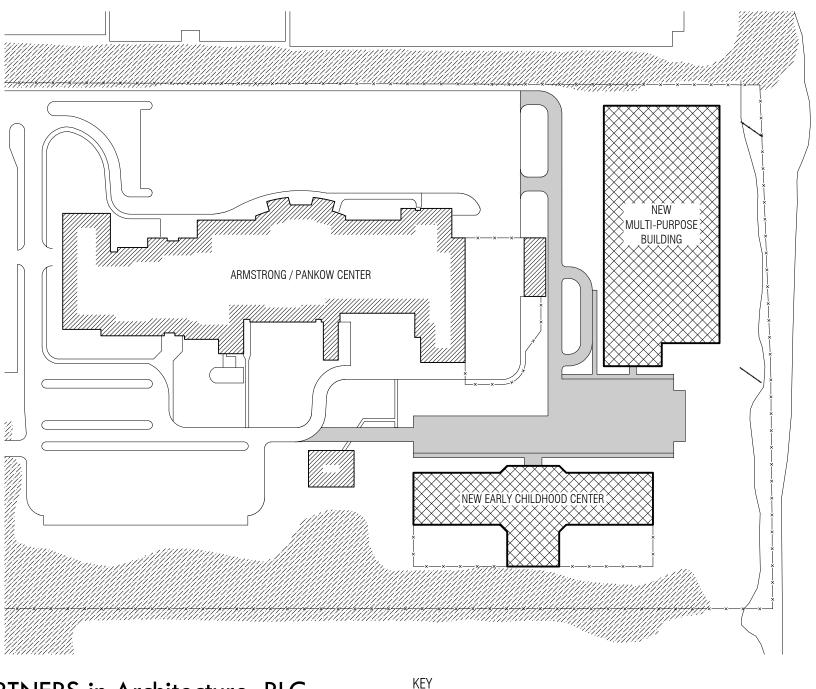
BUILDING TOTAL:

1,826,406

27,087,973

Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees









ies 1  New stand-alone bldg  New addition  Remodeling  Instructional tech.  Furnishings/Equip.	Series 2  New stand-alone bloom New addition Remodeling Instructional tech. Furnishings/Equip.	New addition Remodeling Instructional tech.	New addition Remodeling Instructional tech.	For multiple proposals, include a
New addition Remodeling Instructional tech. Furnishings/Equip.	New addition Remodeling Instructional tech.	New addition Remodeling Instructional tech.	New addition Remodeling Instructional tech.	For multiple proposals, include a
Remodeling Instructional tech. Iurnishings/Equip.	Remodeling Instructional tech.	Remodeling Instructional tech.	Remodeling Instructional tech.	proposals, include a
nstructional tech. urnishings/Equip.	Instructional tech.	Instructional tech.	Instructional tech.	proposals, include a
urnishings/Equip.				include a
-	Furnishings/Equip.	□ - · · · · · · ·		
Buses		Furnishings/Equip.	Furnishings/Equip.	separate project page
	Buses	Buses	Buses	for each.
ite work	Site work	Site work	Site work	
Building shutdown demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	Building shutdown (demo/closure)	
ite acquisition	Site acquisition	Site acquisition	Site acquisition	
uare Foot				
uction Square Ft	86,000	Cost per Sq Ft	\$244	_
dition Square Ft.	n/a	Cost per Sq Ft	n/a	
Iress any existing	ı environmental or us	sability problems? ( <i>cl</i>	heck all that apply)	
sbestos abatement	Energy efficiencies	ADA requirements		
	2.	3.		
i i	demo/closure) ite acquisition  uare Foot uction Square Ft dition Square Ft.  ress any existing	demo/closure) (demo/closure) ite acquisition Site acquisition  uare Foot uction Square Ft dition Square Ft. 86,000 n/a  ress any existing environmental or us sbestos abatement Energy efficiencies	demo/closure) (demo/closure) (demo/closure) ite acquisition Site acquisition  Uare Foot uction Square Ft 86,000 Cost per Sq Ft dition Square Ft. n/a Cost per Sq Ft  ress any existing environmental or usability problems? (c) sbestos abatement Energy efficiencies ADA requirements	demo/closure) (demo/closure) (demo/closure) (demo/closure) ite acquisition Site acquisition Site acquisition  Ware Foot action Square Ft 86,000 Cost per Sq Ft \$244 dition Square Ft. n/a Cost per Sq Ft n/a  ress any existing environmental or usability problems? (check all that apply) sbestos abatement Energy efficiencies ADA requirements

### **Estimated Cost of Proposed Construction Project**

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	20,958,000	0	0	0	20,958,000
Remodeling	97,230	0	0	0	97,230
Construction Contingencies	1,663,538	0	0	0	1,663,538
Instructional Technology	0	0	0	0	0
Loose Furnishing/Equipment	180,476	0	0	0	180,476
Buses	0	0	0	0	0
Site Work	2,529,128	0	0	0	2,529,128
Site Acquisition	0	0	0	0	0
Architectural Fees and Costs	1,973,097	0	0	0	1,973,097
CM Fees and Costs	2,972,344	0	0	0	2,972,344
Estimated Costs	30,373,814	0	0	0	30,373,814

### **Certificate by Registered Architect**

I certify that	I have assess	sed the conditions	relative to th	is facility a	ınd the	details of	of the p	oroposed	project(s)	described	above	and the
attached det	tail relative to	the construction p	project(s) are	true and c	orrect t	o the be	st of n	ny knowle	edge and b	oelief.		

un a.un	11/28/2023	PARTNERS in Architecture, PLC #4	4723
Signature	Date	Firm Name and License	Number
Michael A. Malone, AIA	mmalone@partne	rsinarch.com	586-469-3600
Printed Name	E-mail Address		Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS PRELIMINARY - FO	PRELIMINARY - FOR DISCUSSION PURPOSE ONLY					N MALOW B	UILDERS
2024 Bond Program	Gr	ades:	n/a				
Multi-Purpose Building	Year	Built:	TBD				
Future Pankow Blvd. Address	Building	Size:	86 000				
Building Project Work List		Size:	00,000		1.050	Date	11/17/23
Building Project Work List	Site	SIZE.			1.030		11/1//23
Category				- ·	Direct	Total	- ·
Subcategory	04	Hait	Unit Cost	Direct	w/ Escalation	w/ Indirect	Phase /
Description	Qty	Unit	Unit Cost	Cost	Escatation	Costs	Series
NEW CONSTRUCTION							
build new multi-purpose center (pre-engineered)	82,000	sqft	230.00	18,860,000	19,803,000	25,330,111	1
build support spaces (traditional construction)	4,000	sqft	275.00	1,100,000	1,155,000	1,477,366	1
	86,000	sqft		SUBTOTAL:	20,958,000	26,807,477	
REMODELING WORK							
Technology Infrastructure							
install cabling infrastructure including fiber to the building	1	lpsm	25,000.00	25,000	26,250	31,318	1
install network switches - core/aggregate	1	ea	9,000.00	9,000	9,450	11,274	1
install network switches - edge	1	ea	4,000.00	4,000	4,200	5,011	1
install rack UPS	1	ea	1,200.00	1,200	1,260	1,503	1
install wireless infrastructure	6	ea	1,200.00	7,200	7,560	9,019	1
		Techr	nology Infrastruc	ture Subtotal:	48,720	58,125	
Technology Safety & Security	10		1.500.00	15.000	15.750	10.701	
install security camera system		ea	1,500.00	15,000	15,750	18,791	1
install entrance intercoms	1	ea	3,500.00	3,500	3,675	4,384	1
install access control system	1	ea	4,500.00	4,500	4,725	5,637	1
install access control headend	4,000	lpsm	20,000.00 0.80	20,000	21,000	25,054	1
install emergency alert system			ogy Safety & Secu	3,200	3,360 <b>48,510</b>	4,009 <b>57,875</b>	- 1
			Safety Infrastruc		97,230	116,000	
		3,		G SUBTOTAL:	97,230	116,000	
SITE WORK							
Site Improvements							
site work for new building	86,000	saft	28.01	2,408,693	2,529,128	3,235,019	1
and notice of the sanding	00/000	54.1	Site Improven	- ' '	2,529,128	3,235,019	•
			•	K SUBTOTAL:	2,529,128	3,235,019	
FURNITURE, FURNISHINGS AND EQUIPMENT							
Non-Instructional Equipment							
av for collaboration spaces	1	lpsm	35,000.00	35,000	36,750	43,845	1
digital signage displays	1	allo	6,882.00	6,882	7,226	8,621	1
large group sound systems		each	30,000.00	30,000	31,500	37,581	1
,			tructional Equipn		75,476	90,047	
Furniture, Furnishings & Equipment (FFE)						<u> </u>	
purchase furniture and equipment	1	lpsm	100,000.20	100,000	105,000	125,271	1
			F,F	,&E Subtotal:	105,000	125,271	
			F, F, &	E SUBTOTAL:	180,476	215,317	
			PRO	DJECT TOTAL:	23,764,834	30,373,814	
				Contingency:	1,663,538		
Notes:			Permits / Gener		879,593		
Scope of work is conceptual and will be detailed throughout the design phase				Consultants:	1,973,097		
Indirect Costs include; contingency, general conditions & professional fees				C.M. Costs:	2,092,751		
			BUII	DING TOTAL:	30,373,814		

# **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.	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	1,721	21	1,743	80%	21
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
21	new early childhood center	preK	preK	n/a	n/a	n/a	n/a	n/a	n/a
22	new multi-purpose center	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total				8,619	9,691	21	9,713	89%	21

# **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 Total Sq.Ft.	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	69,546	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	242,687	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	145,891	0	Yes	0	n/a
18	Instructional	Pellerin Center (alt ed)	24001 F.V. Pankow Blvd	Clinton Twp	2009	40,397	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
21	Instructional	new early childhood center	tbd Pankow Blvd	Clinton Twp	tbd	41,500	0.5		n/a	n/a
22	Non-Instructional	new multi-purpose center	tbd Pankow Blvd	Clinton Twp	tbd	86,000	0		n/a	n/a
Total						1,842,958	0.5			

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

# **Cost Summary - SERIES 1**

L'Ans	e Creuse F	Public Schoo	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	445,570	148,952	486,434	32,761	0	524,751	0	125,320	133,058	1,896,845
2		0	0	716,107	171,393	488,008	32,298	0	477,520	0	144,219	153,601	2,183,146
3		0	0	486,666	110,903	591,454	30,909	0	0	0	92,303	71,205	1,383,438
4		0	0	271,926	68,578	381,553	32,298	0	0	0	56,691	33,353	844,399
5		0	0	589,463	175,896	315,569	332,997	0	520,931	0	148,285	165,329	2,248,469
6		0	0	645,839	147,780	301,307	29,982	0	500,673	0	124,935	148,667	1,899,183
7		0	0	258,035	70,323	414,291	30,909	0	0	0	58,131	34,121	865,810
8		0	0	705,225	159,075	327,839	29,519	0	528,166	0	134,540	161,588	2,045,954
9		0	0	641,903	150,547	310,799	31,835	0	520,931	0	127,251	150,828	1,934,094
10		0	0	579,391	97,719	356,699	41,096	0	0	0	81,661	71,919	1,228,485
11		0	0	787,764	121,185	382,994	41,096	0	0	0	101,678	100,467	1,535,185
12		0	0	548,830	97,066	380,731	41,096	0	0	0	81,092	70,785	1,219,599
13		0	0	564,458	93,503	329,472	41,096	0	0	0	78,173	69,799	1,176,500
14		0	0	4,384,498	828,070	1,745,004	54,987	0	2,096,210	0	700,050	832,843	10,641,662
15		0	0	7,336,716	1,116,182	1,672,513	56,376	0	2,096,210	0	948,594	1,260,574	14,487,165
16		0	0	283,271	34,682	40,980	22,574	0	0	0	29,049	27,338	437,894
17		0	0	910,761	107,377	123,762	39,243	0	0	0	90,502	100,393	1,372,039
18	\$405	2,500	1,012,922	292,185	168,249	203,163	29,519	0	144,703	0	142,979	189,775	2,183,496
19		0	0	262,665	35,678	70,152	23,963	0	0	0	29,606	20,466	442,530
20		0	0	1,273,388	129,341	0	20,027	988,929	0	0	107,125	68,511	2,587,321
21	\$368	41,500	15,251,250	340,305	1,479,051	297,150	357,525	0	4,883,076	147,000	1,752,179	2,580,436	27,087,973
22	\$244	86,000	20,958,000	97,230	1,663,538	0	180,476	0	2,529,128	0	1,973,097	2,972,344	30,373,814
Total	\$286	130,000	37,222,172	22,422,194	7,175,088	9,219,875	1,532,581	988,929	14,822,300	147,000	7,127,460	9,417,402	110,075,000

#### 17. Funding:

PLUS: Election/Bond Issue Costs: \$1,513,892

LESS: Estimated Interest Earnings: \$1,588,892

Other (specify):

\$0

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified) \$110,000,000

# **Cost Summary - SERIES 2**

L'Ans	e Creuse P	Public Schoo	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	\$405	250	101,292	564,169	168,550	782,555	230,252	0	7,235	0	140,599	117,017	2,111,669
2		0	0	5,824,337	803,252	772,895	230,200	0	1,205,088	0	684,986	971,982	10,492,740
3		0	0	4,307,586	603,788	283,759	276,505	0	1,170,035	0	515,809	756,080	7,913,561
4		0	0	172,278	134,611	655,795	0	0	518,037	0	112,947	111,725	1,705,393
5		0	0	4,253,653	488,868	635,027	0	0	0	0	416,704	586,383	6,380,635
6		0	0	389,659	90,040	510,742	0	0	0	0	75,038	60,542	1,126,021
7		0	0	215,801	141,279	657,737	0	0	539,251	0	118,501	116,124	1,788,692
8		0	0	413,023	100,526	528,572	63,669	0	0	0	83,971	72,996	1,262,758
9		0	0	808,476	137,509	566,609	0	0	0	0	115,532	118,403	1,746,529
10		0	0	1,769,247	473,780	1,064,984	309,086	0	1,594,483	0	401,617	506,554	6,119,751
11		0	0	5,621,363	944,944	1,140,214	212,835	0	2,475,025	0	804,712	1,112,810	12,311,903
12		0	0	3,449,968	453,030	1,080,335	0	0	0	0	383,956	482,371	5,849,661
13		0	0	3,301,390	460,140	1,023,949	0	0	276,065	0	390,157	494,817	5,946,519
14		0	0	10,058,296	1,092,972	871,425	0	0	0	0	934,894	1,401,443	14,359,031
15	\$405	4,500	1,823,259	8,545,183	1,221,499	1,412,439	173,644	0	260,466	0	1,041,528	1,474,617	15,952,636
16		0	0	1,854,452	258,694	267,469	86,822	0	378,196	0	220,421	307,909	3,373,963
17	\$405	5,000	2,025,844	1,995,004	518,819	873,302	0	0	294,037	0	440,315	569,108	6,716,428
18		0	0	253,520	76,727	513,754	0	0	0	0	63,420	37,097	944,519
19		0	0	284,284	73,833	454,044	0	0	0	0	60,964	33,917	907,040
20		0	0	541,440	58,775	0	46,305	1,990,838	0	0	48,506	26,338	2,712,201
21		0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0
Total	\$405	9,750	3,950,395	54,623,130	8,301,636	14,095,605	1,629,317	1,990,838	8,717,917	0	7,054,578	9,358,233	109,721,649

#### 17. Funding:

PLUS: Election/Bond Issue Costs: \$1,469,236 **LESS:** Estimated Interest Earnings: \$1,190,885

Other (specify):

\$0

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified)

\$110,000,000

## **Cost Summary - SERIES 3**

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	3,686,225	553,588	0	0	0	1,849,653	0	474,978	750,222	7,314,667
2		0	0	57,881	5,788	0	0	0	0	0	4,966	7,844	76,480
3		0	0	57,881	12,734	0	0	0	69,458	0	10,926	17,257	168,255
4		0	0	2,510,815	364,078	0	212,835	0	917,133	0	311,677	473,920	4,790,458
5		0	0	57,881	218,805	0	0	0	2,130,165	0	187,734	296,524	2,891,110
6		0	0	1,763,098	245,735	0	160,742	0	533,507	0	210,310	318,308	3,231,699
7		0	0	2,877,145	431,539	0	276,505	0	1,161,744	0	369,348	559,516	5,675,797
8		0	0	1,849,769	238,928	0	160,742	0	378,766	0	204,470	309,084	3,141,758
9		0	0	2,142,715	327,112	0	160,742	0	967,659	0	280,131	428,591	4,306,949
10		0	0	4,391,577	467,387	0	212,835	0	69,458	0	401,018	633,403	6,175,677
11		0	0	867,640	93,710	0	0	0	69,458	0	80,403	126,995	1,238,206
12		0	0	2,766,703	396,707	0	212,835	0	987,529	0	339,672	518,138	5,221,585
13		0	0	3,221,471	512,697	0	212,835	0	1,692,661	0	439,191	675,328	6,754,183
14		0	0	4,707,193	1,330,573	0	686,063	0	7,912,472	0	1,140,199	1,763,463	17,539,962
15		0	0	4,337,748	1,410,352	0	686,063	0	9,079,705	0	1,208,649	1,871,579	18,594,096
16		0	0	31,256	10,071	0	0	0	69,458	0	8,641	13,649	133,075
17		0	0	5,121,266	851,820	0	289,406	0	3,107,529	0	729,907	1,127,900	11,227,827
18		0	0	1,045,405	175,237	0	57,881	0	649,080	0	150,162	232,183	2,309,948
19		0	0	958,716	175,183	0	0	0	793,112	0	150,307	237,408	2,314,726
20		0	0	2,250,398	234,248	0	0	3,520,234	92,077	0	200,984	317,452	6,615,393
21		0	0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0	0
Total		0	0	44,702,783	8,056,289	0	3,329,485	3,520,234	32,530,623	0	6,903,674	10,678,765	109,721,852

#### 17. Funding:

PLUS: Election/Bond Issue Costs: \$1,469,035 **LESS:** Estimated Interest Earnings: \$1,190,887

Other (specify):

**AMOUNT OF PROPOSED ISSUE** 

(Amount to be Qualified)

\$110,000,000

\$0

# **Cost Summary - COMBINED SERIES 1-3**

L'Ans	e Creuse P	Public Schoo	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	\$405	250	101,292	4,695,964	871,090	1,268,989	263,012	0	2,381,640	0	740,897	1,000,297	11,323,181
2		0	0	6,598,325	980,433	1,260,904	262,497	0	1,682,608	0	834,171	1,133,428	12,752,366
3		0	0	4,852,133	727,425	875,213	307,413	0	1,239,492	0	619,037	844,541	9,465,254
4		0	0	2,955,019	567,267	1,037,348	245,133	0	1,435,170	0	481,315	618,998	7,340,249
5		0	0	4,900,997	883,569	950,595	332,997	0	2,651,097	0	752,723	1,048,236	11,520,214
6		0	0	2,798,596	483,555	812,048	190,725	0	1,034,179	0	410,282	527,518	6,256,903
7		0	0	3,350,981	643,142	1,072,028	307,413	0	1,700,994	0	545,980	709,761	8,330,299
8		0	0	2,968,017	498,529	856,411	253,931	0	906,933	0	422,981	543,668	6,450,470
9		0	0	3,593,095	615,167	877,408	192,577	0	1,488,590	0	522,915	697,821	7,987,572
10		0	0	6,740,215	1,038,886	1,421,683	563,017	0	1,663,941	0	884,296	1,211,876	13,523,913
11		0	0	7,276,767	1,159,839	1,523,208	253,931	0	2,544,483	0	986,793	1,340,273	15,085,293
12		0	0	6,765,502	946,803	1,461,066	253,931	0	987,529	0	804,719	1,071,294	12,290,845
13		0	0	7,087,319	1,066,340	1,353,421	253,931	0	1,968,725	0	907,522	1,239,945	13,877,203
14		0	0	19,149,986	3,251,615	2,616,429	741,050	0	10,008,682	0	2,775,144	3,997,748	42,540,655
15	\$405	4,500	1,823,259	20,219,647	3,748,032	3,084,953	916,083	0	11,436,381	0	3,198,772	4,606,770	49,033,897
16		0	0	2,168,979	303,448	308,449	109,396	0	447,654	0	258,110	348,896	3,944,931
17	\$405	5,000	2,025,844	8,027,031	1,478,015	997,064	328,650	0	3,401,565	0	1,260,724	1,797,402	19,316,294
18	\$405	2,500	1,012,922	1,591,109	420,213	716,917	87,401	0	793,783	0	356,562	459,056	5,437,964
19		0	0	1,505,665	284,694	524,196	23,963	0	793,112	0	240,877	291,790	3,664,296
20		0	0	4,065,225	422,363	0	66,332	6,500,001	92,077	0	356,616	412,301	11,914,915
21	\$368	41,500	15,251,250	340,305	1,479,051	297,150	357,525	0	4,883,076	147,000	1,752,179	2,580,436	27,087,973
22	\$244	86,000	20,958,000	97,230	1,663,538	0	180,476	0	2,529,128	0	1,973,097	2,972,344	30,373,814
Total	\$295	139,750	41,172,567	121,748,106	23,533,013	23,315,480	6,491,382	6,500,001	56,070,840	147,000	21,085,711	29,454,401	329,518,501

#### 17. Funding:

PLUS: Election/Bond Issue Costs: \$4,452,163 **LESS:** Estimated Interest Earnings: \$3,970,664

Other (specify): \_

AMOUNT OF PROPOSED ISSUE

(Amount to be Qualified)

\$330,000,000

#### 3881, Worksheet 1: Useful Life Calculation - SERIES 1

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

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

Asset Category	Useful Life Years
New School Building	40
<b>Building Improvements</b> - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
MS North	10
<b>Furnishings and Equipment</b> - 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
<b>Technology</b> (instructional and non-instructional) - computers, printers, scanners, etc.	5

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	4	41	37,222,172	9,305,543	46,527,715	51.61%	21.16
Buildings	40	'	41	31,222,112	9,303,343	40,327,713	31.01/6	21.10
Building	20		24	0.700.000	0.470.400	0.000.000	0.040/	2.00
Improvements	30	'	31	6,788,093	2,172,190	8,960,283	9.94%	3.08
Roofing	20	1	21	7,556,600	2,418,112	9,974,712	11.06%	2.32
Flooring	10	0	10		0	0	0.00%	0.00
Furnishing/	10	1	11	722,551	187,863	910,415	1.01%	0.11
Equipment	10	!	11	722,331	107,003	910,415	1.0176	0.11
Technology	10	1	11	8,077,501	2,180,925	10,258,426	11.38%	1.25
Infrastructure	10	•	11	0,077,301	2,100,923	10,236,426	11.50%	1.25
Technology	5	1	6	10,029,904	2,507,476	12,537,380	13.91%	0.83
(instr/non-instr)	5	1	6	10,029,904	2,307,470	12,007,000	13.91%	0.63
Buses	6	1	7	988,929	0	988,929	1.10%	0.08
Total for purpose	s of determin	ng weighted a	vg useful life	71,385,750	18,772,109	90,157,859	100.00%	28.84

#### 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
<b>Building Improvements</b> - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
<b>Furnishings and Equipment</b> - 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
<b>Technology</b> (instructional and non-instructional) - computers, printers, scanners, etc.	5

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
	Average Useful Life of Asset (in	Time between Bonds Issue Date and	Useful Life of Asset from Bond Issue	Expenditure	Allocation of Related Professional	Total Costs (Incl. Related	% of Total	Average Useful Life of Assets (in
Asset Type	Years)	Purchase	Date	Amount	Fees	Fees)	Cost	years)
School Buildings	40	1	41	3,950,395	987,599	4,937,994	5.02%	2.06
Building Improvements	30	2	32	34,363,761	10,996,403	45,360,164	46.08%	14.75
Roofing	20	2	22	14,873,213	4,759,428	19,632,641	19.94%	4.39
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/ Equipment	10	1	11	1,583,012	411,583	1,994,595	2.03%	0.22
Technology Infrastructure	10	1	11	5,386,156	1,454,262	6,840,418	6.95%	0.76
Technology (instr/non-instr)	5	1	6	14,141,910	3,535,477	17,677,387	17.96%	1.08
Buses	6	1	7	1,990,838	0	1,990,838	2.02%	0.14
Total for purpose	s of determin	ng weighted a	vg useful life	76,289,284	22,144,753	98,434,037	100.00%	23.40

#### 3881, Worksheet 1: Useful Life Calculation - SERIES 3

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
<b>Building Improvements</b> - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
<b>Furnishings and Equipment</b> - 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
<b>Technology</b> (instructional and non-instructional) - computers, printers, scanners, etc.	5

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	0	40	0	0	0	0.00%	0.00
Buildings	40	0	40	U	0	U	0.00%	0.00
Building	20	0	20	20 440 620	40 545 400	E4 COC CO4	77.070/	04.70
Improvements	30	2	32	39,110,630	12,515,402	51,626,031	77.37%	24.76
Roofing	20	2	22	5,592,153	1,789,489	7,381,642	11.06%	2.43
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/	10	1	11	3,329,485	865,666	4,195,151	6.29%	0.69
Equipment	10	-	11	3,329,403	803,000	4, 195, 151	0.2976	0.09
Technology	10	0	10	0	0	0	0.00%	0.00
Infrastructure	10	0	10	0	0	O	0.0076	0.00
Technology	5	0	5	0	0	0	0.00%	0.00
(instr/non-instr)	5	U	5	0	U	U	0.00%	0.00
Buses	6	2	8	3,520,234	0	3,520,234	5.28%	0.42
Total for purpose	s of determin	ng weighted a	vg useful life	51,552,501	15,170,557	66,723,058	100.00%	28.31

### 3881, Worksheet 1: Useful Life Calculation - SERIES 1-3

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
<b>Building Improvements</b> - interior and exterior remodeling such as plumbing, electrical, HVAC, fire suppression, security systems, elevators, etc.	30
Roofing	20
Flooring	10
<b>Furnishings and Equipment</b> - 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
<b>Technology</b> (instructional and non-instructional) - computers, printers, scanners, etc.	5

Follow Column			Col. 1			Col. 4	Col. 6	Col. 3
Instructions	$\rightarrow$	Enter	+	Enter	Enter	+	÷	х
motruotions		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	<b>T</b>		Average
	Useful Life of	Bonds Issue	Asset from	- "	Related	Total Costs	o/ (T / )	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	41,172,567	10,293,142	51,465,709	20.16%	8.26
Buildings	.0			11,172,007	10,200,112	01,100,700	20.1070	0.20
Building	30	2	32	80,262,484	25,683,995	105,946,479	41.50%	13.28
Improvements	30		32	00,202,404	25,065,995	105,946,479	41.50%	13.20
Roofing	20	2	22	28,021,965	8,967,029	36,988,994	14.49%	3.19
Flooring	10	0	10	0	0	0	0.00%	0.00
Furnishing/	10	1	11	5,635,048	1,465,112	7,100,160	2.78%	0.31
Equipment								
Technology	10	1	11	13,463,657	3,635,187	17,098,845	6.70%	0.74
Infrastructure								
Technology	5	1	6	24 171 914	6.042.052	20 214 767	11.83%	0.71
(instr/non-instr)	5	1	6	24,171,814	6,042,953	30,214,767	11.03%	0.71
Buses	6	2	8	6,500,001	0	6,500,001	2.55%	0.20
Total for purpose	ng weighted a	vg useful life	199,227,536	56,087,419	255,314,954	100.00%	26.69	



November 28, 2023

Ms. Carol Densmore School Bond Qualification & Loan Program Michigan Department of Treasury

Subject: L'Anse Creuse Public Schools

2024 Bond Program

Cost per square foot for additions

Dear Ms. Densmore,

Barton Malow has benchmarked the cost for new construction and additions against other similar recent school projects. Recent bids from 2022 for additions to school buildings ranged between \$334/SF to \$357/SF. We averaged this to get to estimated 2023 pricing of \$350/SF.

An escalation factor of 5% is added for the stand alone new early childhood center to get to an anticipate cost of \$368/SF since it is in Series 1.

An escalation factor of 5% for 3 years is added to the additions to get to an anticipated cost of \$405/SF since they are later in the bond program.

Based on this analysis, we feel the proposed unit costs for the proposed new construction and additions at L'Anse Creuse Public Schools are in line with the anticipated costs for this project. If you have any questions related to this project or require additional information, please do not hesitate to contact me at 586-615-1332 or jeff.atkins@bartonmalow.com

Sincerely,

Jeff Atkins Project Executive Barton Malow

Copy: Erik Edoff, L'Anse Creuse Public Schools

Mike Malone, Partners In Architecture

Sam Esser, Barton Malow

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