

Application for Preliminary Qualification of Bonds

School Bond Qualification and Loan Program for

L'ANSE CREUSE PUBLIC SCHOOLS

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

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

Michigan Department of Treasury
Bureau of State and Authority Finance
School Bond Qualification and Loan Program
517-335-0994
www.michigan.gov/sblf

Application for Preliminary Qualification of Bonds

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

Election Date
May 7, 2024

Application No.
50-140-4-K12-25-01

District Name and Address
L'Anse Creuse Public Schools
24076 F.V. Pankow Blvd
Clinton Township, MI 48036

School District Code and Phone No.
50-140
586-783-6300

Superintendent Name and Email
Erik Edoff
 edoffer@lc-ps.org

Mailing Instructions

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

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

Certificate

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

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 <small>Secretary, Board of Education</small>	Signature of Secretary
Amelia Servial <small>Treasurer, Board of Education</small>	Erik Edoff <small>Superintendent of Schools</small>
Thrun Law Firm, P.C. <small>Bond Counsel</small>	2900 West Road, Suite 400, East Lansing, MI 48823 <small>Mailing Address</small>
PFM Financial Advisors LLC <small>Financial Consultant</small>	555 Briarwood Circle, Suite 333, Ann Arbor, MI 48108 <small>Mailing Address</small>
PARTNERS in Architecture, PLC <small>Architectural Firm</small>	65 Market Street, Suite 200, Mount Clemens, MI 48043 <small>Mailing Address</small>
Barton Malow Builders <small>Construction Management Firm</small>	26500 American Drive, Southfield, MI 48034 <small>Mailing Address</small>

ATTACH PROPOSED BALLOT LANGUAGE.

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 re-equipping 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: 11/28/2023

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

Original Bond Issue			Current Outstanding Principal Balance				Outstanding Principal Balance as of Election Date				Millage	
Issue Date	Purpose	Issue Amount	Current Qualified	Current Non-Qualified	Current Non-Voted	Current Total	Qualified	Non-Qualified	Non-Voted	Election Date Total	Levied This Tax Year	Estimate Next Tax Year
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		
			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? No

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

Current		Growth Rate				Property Taxes Levied		Pending
Tax Year	Taxable Value	Prior 5 Year Average	Prior 20 Year Average	Projected Rate Years 1 - 5	Projected Rate Years 6+	Winter	Summer	Material Tax Appeals in the District
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 Proposed Millage for Next Tax Year	Estimated Duration of Millage Levy	Maximum Millage without SBLF Participation	1st Year Millage Increase
7.00	31	9.16	0.00

F. Key Financial Measures

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

G. Bond Issuance

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

H. Certification

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

Prepared By Nate Watson
 Firm PFM Financial Advisors LLC



PQ 2024

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\$110,000,000
L'ANSE CREUSE PUBLIC SCHOOLS
2024 SCHOOL BUILDING AND SITE BONDS

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

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 1.46 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
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
	<u>\$110,075,000</u>	<u>\$1,513,892</u>	<u>\$111,588,892</u>					<u>\$1,588,892</u>

kcg



PQ 2027

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\$110,000,000
L'ANSE CREUSE PUBLIC SCHOOLS
2027 SCHOOL BUILDING AND SITE BONDS

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

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 1.45 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
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



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\$110,000,000
L'ANSE CREUSE PUBLIC SCHOOLS
2030 SCHOOL BUILDING AND SITE BONDS

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

PROJECT FUND DRAWS AND EARNINGS SECTION

Date	Estimated Expenditures			Average Life = 1.45 years		Project Fund Balance	Estimated Interest Rate	Projected Interest Earned
	Project Expenditures	Issuance & Other Costs	Totals	Month	Payout %			
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	3	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	5	15.03%	93,544,339	0.75%	58,465
Oct 30	3,047,829		3,047,829	6	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	9	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	13	36.96%	69,577,048	0.75%	43,486
Jun 31	3,047,829		3,047,829	14	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	20	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	25	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	28	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	36	100.00%	0	0.75%	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



**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
2023	2024	\$500,031	\$500,031	5.000%	\$4,600,000	\$5,600,063
2024	2025	385,031	385,031	5.000%	4,695,000	5,465,063
2025	2026	267,656	267,656	5.000%	0	535,313
2026	2027	267,656	267,656	5.000%	0	535,313
2027	2028	267,656	267,656	5.000%	0	535,313
2028	2029	267,656	267,656	5.000%	0	535,313
2029	2030	267,656	267,656	5.000%	0	535,313
2030	2031	267,656	267,656	5.000%	0	535,313
2031	2032	267,656	267,656	5.000%	0	535,313
2032	2033	267,656	267,656	5.000%	0	535,313
2033	2034	267,656	267,656	5.000%	0	535,313
2034	2035	267,656	267,656	5.000%	0	535,313
2035	2036	267,656	267,656	3.750%	2,885,000	3,420,313
2036	2037	213,563	213,563	3.750%	2,870,000	3,297,125
2037	2038	159,750	159,750	3.750%	2,850,000	3,169,500
2038	2039	106,313	106,313	3.750%	2,835,000	3,047,625
2039	2040	53,156	53,156	3.750%	2,835,000	2,941,313
2040	2041	0	0	0.000%	0	0
Totals:		<u>\$4,362,063</u>	<u>\$4,362,063</u>		<u>\$23,570,000</u>	<u>\$32,294,125</u>

Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service
\$1,190,040	\$1,190,040	0.561%	\$8,955,000	\$11,335,079
1,164,921	1,164,921	0.876%	9,160,000	11,489,842
1,124,800	1,124,800	1.126%	14,175,000	16,424,600
1,044,995	1,044,995	1.443%	14,335,000	16,424,989
941,568	941,568	1.643%	14,550,000	16,433,135
822,039	822,039	1.841%	14,790,000	16,434,079
685,897	685,897	1.941%	15,055,000	16,426,795
539,789	539,789	2.041%	15,345,000	16,424,577
383,193	383,193	2.141%	15,395,000	16,161,386
218,390	218,390	2.211%	6,300,000	6,736,779
148,743	148,743	2.311%	6,300,000	6,597,486
75,947	75,947	2.411%	6,300,000	6,451,893
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
0	0	0.000%	0	0
<u>\$8,340,320</u>	<u>\$8,340,320</u>		<u>\$140,660,000</u>	<u>\$157,340,640</u>



**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: 01/23/2023

Levy Year	FY End Year	Interest Due Nov 1	Interest Due May 1	Interest Rate	Principal Due May 1	Total Debt Service	TOTAL UTQ	
							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:		<u>\$6,961,875</u>	<u>\$6,961,875</u>		<u>\$39,580,000</u>	<u>\$53,503,750</u>	<u>\$203,810,000</u>	<u>\$243,138,515</u>

kcg 5.5.23



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 Mills at time of last new money bond: 7.00	
Debt/TV ^[2] : 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 Bond Loan Fund

Levy Year	Fiscal Year End	Projected Tax Base ^[1]	Growth Rate	Existing UTQ Payments	Use of Funds on Hand \$1,631,883	Delinquency Allowance 7.00%	Exempt Pers. Property Receipts ^[3]	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



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

Levy Year	Taxable Value	Exempt Personal Property	Adjusted Total	T.V. Change	Adjusted T.V. Change	5 Year Average	20 Year 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:

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

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

Project Sheet

Atwood Elementary				Project No. [n]	1
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input checked="" type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft

n/a

Cost per Sq Ft

* includes escalation

n/a

New Addition Square Ft.

250

Cost per Sq Ft

\$405 *

Does this proposed project address any existing environmental or usability problems? (check all that apply)

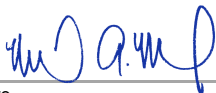
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column1	Series 1	Series 2	Series 3	n/a	Total
New Construction	0	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.



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Atwood Elementary

Year Built: 2004

45690 North Ave, Macomb, MI

Building Size: 69,296

Building Project Work List

Site Size: 9.90

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
NEW CONSTRUCTION									
		build kitchen / dry storage addition	250	sqft	350.00	87,500	101,292	133,839	2
			250	sqft		SUBTOTAL:	101,292	133,839	
REMODELING 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	lpsm	12,750.51	12,800	14,818	19,579	3
		replace select exterior doors	28	ea	5,500.00	154,000	178,274	235,557	1
		Exterior Work Subtotal:				642,800	744,121	983,222	
Interior Work									
		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)	4,000	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	1,000	sqft	75.00	75,000	86,822	114,719	2
		renovate kitchen (walk-ins & serving line)	1	ea	180,000.00	180,000	208,373	275,327	2
		remodeling for addition (connection allowance)	250	sqft	25.00	6,250	7,235	9,560	2
		Interior Work 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
HVAC System									
		replace roof top units, chillers, classroom units, valves, pumps, & select	1	lpsm	978,500.00	978,500	1,132,736	1,496,707	3
		replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1
In upgrade temperature controls									
		upgrade temperature controls	69,296	sqft	6.00	415,800	481,340	636,005	3
		Mechanical Systems Subtotal:				1,552,300	1,796,981	2,374,387	
Electrical Systems									
Power									
		electrical to support technology	33	ea	1,500.00	49,500	57,302	75,715	2
Lighting									
		upgrade site lighting	1	lpsm	74,350.00	74,400	86,127	113,802	3
		upgrade building exterior lighting	1	lpsm	17,000.00	17,000	19,680	26,003	3
		upgrade classroom lighting	36,860	sqft	6.50	239,600	277,367	366,490	3
		Electrical Systems Subtotal:				380,500	440,476	582,010	
		Construction Subtotal:				3,679,050	4,258,960	5,627,449	
Technology Infrastructure									
		demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
		replace cabling infrastructure	69,296	sf	0.65	45,000	52,093	63,892	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	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	37	ea	1,200.00	44,400	51,399	63,040	2
		upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
		Technology Infrastructure Subtotal:				180,800	209,299	256,705	
Technology Safety & Security									
		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

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Atwood Elementary

Year Built: 2004

45690 North Ave, Macomb, MI

Building Size: 69,296

Building Project Work List

Site Size: 9.90

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		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	69,296	sf	0.60	41,600	48,157	59,065	2
		replace PA systems	69,296	sf	0.50	34,600	40,054	49,126	2
Technology Safety & Security Subtotal:						196,700	227,705	279,280	
Technology & Safety Infrastructure Subtotal:						377,500	437,003	535,985	
REMODELING SUBTOTAL:						4,056,550	4,695,964	6,163,434	

SITE 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	sqft	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	sqft	25.00	203,300	235,345	310,966	1
		replace playground pavement surfaces	29,400	sqft	3.50	102,900	119,120	157,395	3
		replace athletic fields, exterior courts, & furnishings	1	lpsm	75,000.00	75,000	86,822	114,719	3
		site work for addition	250	sqft	25.00	6,250	7,235	9,560	2
		replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	78,300.00	78,300	90,642	119,767	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 Improvement Subtotal:						780,750	903,816	1,194,230	
SITE WORK SUBTOTAL:						2,057,350	2,381,640	3,146,908	

INSTRUCTIONAL 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	each	9,000.00	270,000	312,559	383,353	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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						1,268,989	1,556,414		

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	37	each	400.00	14,800	17,133	21,013	1
Non-Instructional Equipment Subtotal:						32,761	40,181		
Furniture, Furnishings & Equipment (FFE)									
		purchase furniture	1	lpsm	198,855	198,900	230,252	282,404	2
F, F, & E Subtotal:						230,252	282,404		
F, F, & E SUBTOTAL:						263,012	322,585		

Notes: Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees	PROJECT TOTAL:	8,710,897	11,323,181
	Construction Contingency:	871,090	
	Permits / General Conditions:	296,643	
	Design Consultants:	740,897	
	C.M. Costs:	703,654	
	BUILDING 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 Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	24		550

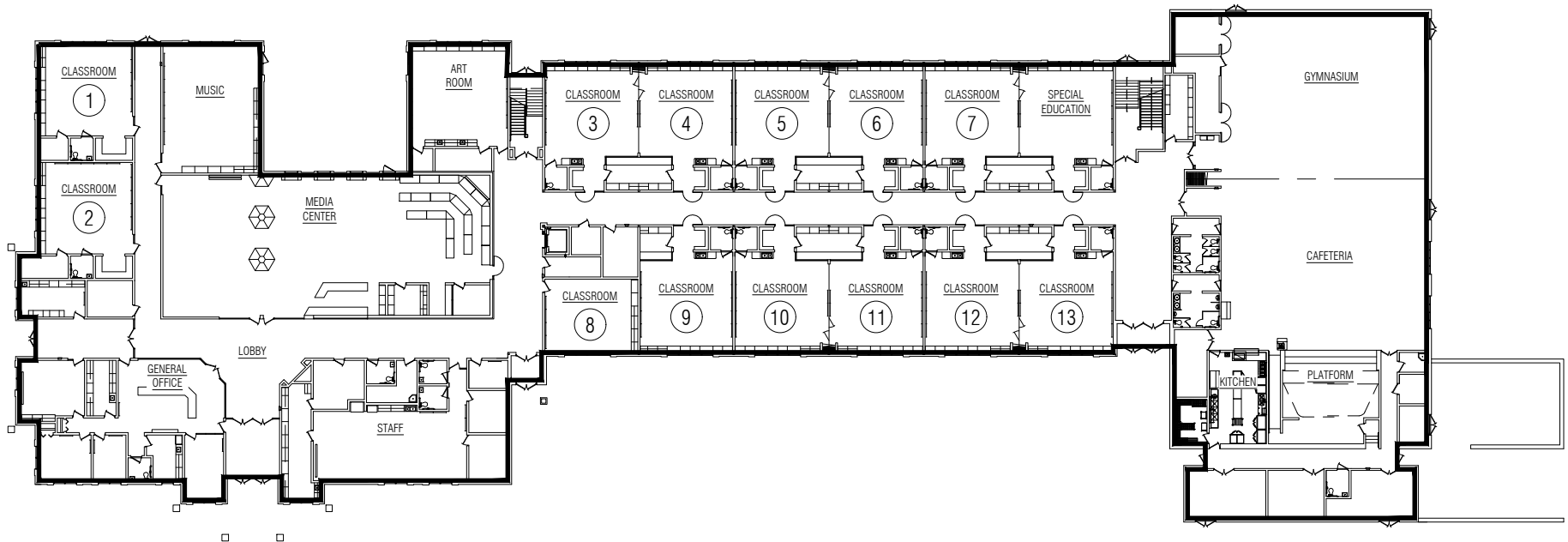
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

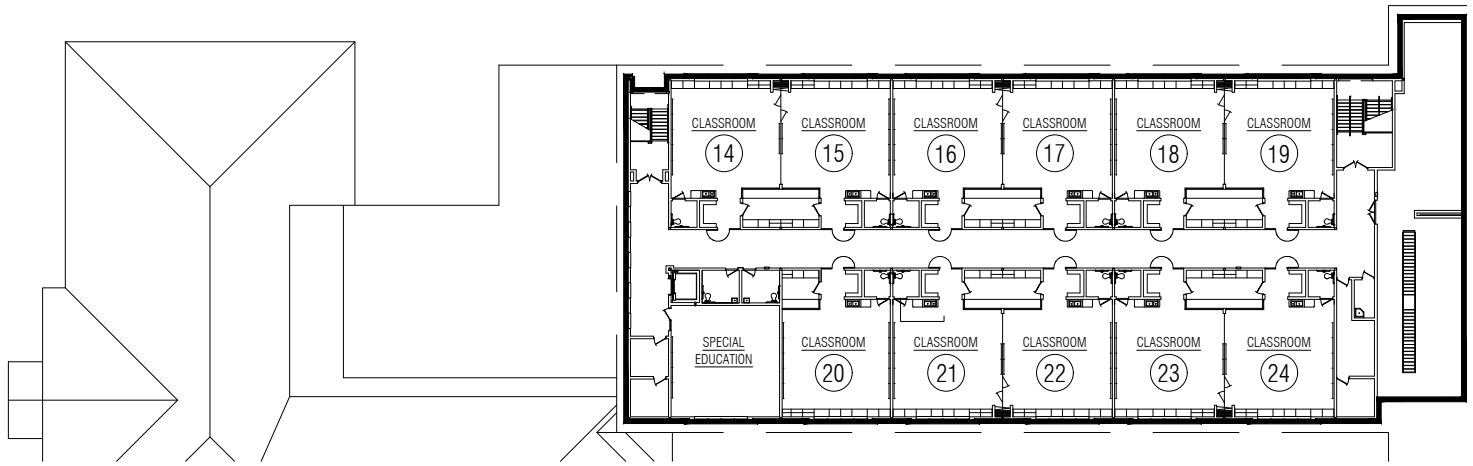
Projected 5-Year Enrollment 570

Utilization Percentage 104%

(Projected 5-Year Enrollment / Total Capacity)

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





Project Sheet

Carkenord Elementary				Project No. [n]	2
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

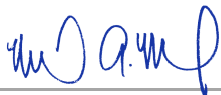
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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.



Signature _____ Date 11/28/2023 Firm Name and License Number PARTNERS in Architecture, PLC #44723

Printed Name Michael A. Malone, AIA E-mail Address mmalone@partnersinarch.com Phone Number 586-469-3600

2024 Bond Program

Grades: K-5

Carkenord 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: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	80,000	sqft	10.38	830,400	961,292	1,270,174	2
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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	70.00	195,720	226,570	299,372	2
replace select exterior doors	51	ea	5,500	280,500	324,714	429,051	1

Exterior Work Subtotal: 1,382,120 1,599,977 2,114,081

Interior Work

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

Interior Work Subtotal: 1,468,250 1,699,683 2,245,825

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	2
select toilet room sink, toilet, & urinal bodies replacement	1	lpsm	54,080.00	54,080	62,604	82,720	2

HVAC System

replace roof top units, classroom units, valves, pumps, & select piping	1	lpsm	1,463,000.00	1,463,000	1,693,605	2,237,795	2
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1

Integrated Automation

upgrade temperature controls	69,375	sqft	6.00	416,250	481,861	636,693	2
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Mechanical Systems Subtotal: 2,054,330 2,378,144 3,142,289

Electrical Systems

Power

electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	2
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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

Electrical Systems Subtotal: 268,175 310,446 410,199

Construction Subtotal: 5,172,875 5,988,249 7,912,394

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	69,375	sf	0.65	45,094	52,202	64,025	2
replace fiber to IDFs	2	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	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 330,194 382,241 468,818

Technology Safety & Security

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

L'ANSE CREUSE PUBLIC 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 Size: 69,375

Building Project Work List

Site Size: 23.00

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		install emergency alert system	69,375	sf	0.60	41,625	48,186	59,100	2
		replace PA systems	69,375	sf	0.50	34,688	40,155	49,250	2
Technology Safety & Security Subtotal:						196,813	227,835	279,440	
Technology & Safety Infrastructure Subtotal:						527,006	610,076	748,258	
REMODELING 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 Paving Subtotal:						808,138	1,067,809	

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	
upgrade playground soft surfaces	6,500	sqft	25.00	162,500	188,114	248,559	1	
replace playground pavement surfaces	50,000	ea	3.50	175,000	202,584	267,679	2	
replace athletic fields, exterior courts, & furnishings	1	lpsm	10,000.00	10,000	11,576	15,296	2	
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	86,400.00	86,400	100,019	132,157	2	
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	2	
update storage facilities	1	lpsm	11,450.00	11,500	13,313	17,590	2	
Site Improvement Subtotal:						874,470	1,155,455	
SITE WORK 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	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	
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						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	36	each	400.00	14,400	16,670	20,446	1	
Non-Instructional Equipment Subtotal:						32,298	39,613	

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	198,855.00	198,855	230,200	282,340	2	
F, F, & E Subtotal:						230,200	282,340	
F, F, & E SUBTOTAL:						262,497	321,953	

Notes:	PROJECT TOTAL:	9,804,334	12,752,366
Scope of work is conceptual and will be detailed throughout the design phase	Construction Contingency:	980,433	
Indirect Costs include; contingency, general conditions & professional fees	Permits / General Conditions:	337,518	
	Design Consultants:	834,171	
	C.M. Costs:	795,910	
	BUILDING TOTAL:	12,752,366	

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 Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	24		550

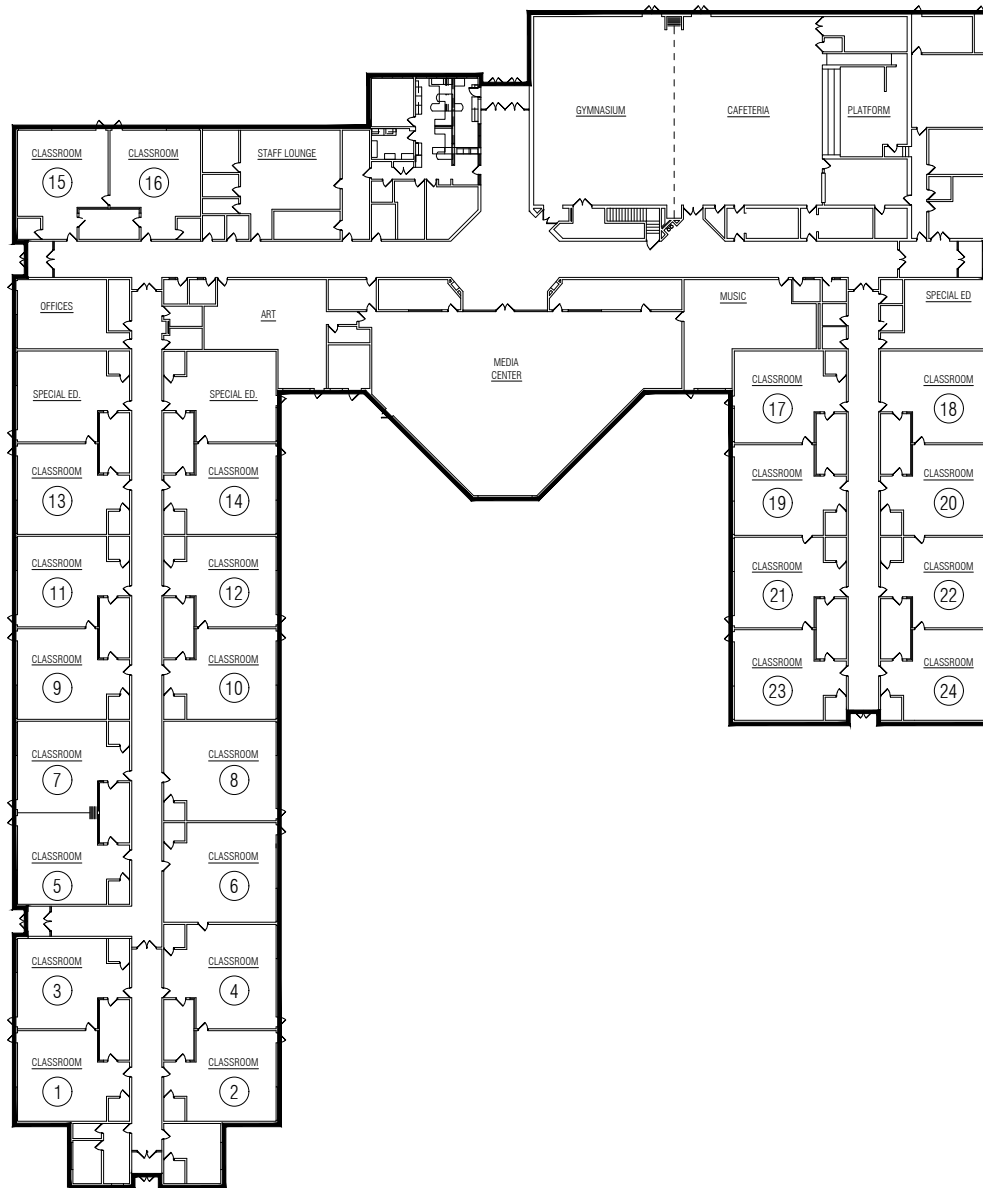
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 570




Utilization Percentage 104%

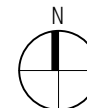
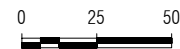
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Carkenord Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Graham Elementary & Early Childhood Center				Project No. [n]	3
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

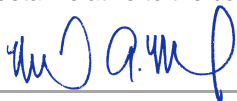
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

2024 Bond Program

Grades: preK-5

Graham 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: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	43,500	sqft	25.00	1,087,500	1,258,917	1,663,432	2
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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	210,109	277,621	1

Exterior Work Subtotal: 1,760,979 2,326,817

Interior Work

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)	2,000	sqft	8.00	16,000	18,522	24,473	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 (kitchen office & serving line)	1	lpsm	35,000.00	35,000	40,517	53,536	2

Interior Work Subtotal: 1,001,519 1,323,327

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	2
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	37,180.00	37,180	43,040	56,870	2

HVAC System

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	2	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
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Mechanical Systems Subtotal: 1,235,105 1,631,969

Electrical Systems

Power

electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	2
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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 Systems Subtotal: 429,942 568,091

Construction Subtotal: 4,427,545 5,850,204

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	60,614	sf	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	1,200.00	40,800	47,231	57,929	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 207,908 255,000

Technology Safety & Security

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	60,614	sf	0.60	36,368	42,101	51,637	2
replace PA systems	60,614	sf	0.50	30,307	35,084	43,031	2

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK-5

Graham 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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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Technology Safety & Security Subtotal:	216,679	265,757
Technology & Safety Infrastructure Subtotal:	424,587	520,756
REMODELING SUBTOTAL:	4,852,133	6,370,960

SITE WORK

Site 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 Paving Subtotal:			623,115	823,334	

Site Improvements

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 Improvement Subtotal:			616,377	814,432	
		SITE WORK SUBTOTAL:			1,239,492	1,637,766	

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	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

Audiovisual

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
		INSTRUCTIONAL TECHNOLOGY SUBTOTAL:			875,213	1,073,449	

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	33	each	400.00	13,200	15,281	18,742	1
		Non-Instructional Equipment Subtotal:			30,909	37,909	

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	183,855.00	183,855	212,835	261,042	2
purchase kitchen equipment	1	lpsm	55,000.00	55,000	63,669	84,128	2
		F,F,&E Subtotal:			276,505	345,170	
		F, F, & E SUBTOTAL:			307,413	383,079	

PROJECT TOTAL:	7,274,251	9,465,254
Construction Contingency:	727,425	
Permits / General Conditions:	252,151	
Design Consultants:	619,037	
C.M. Costs:	592,390	
BUILDING TOTAL:	9,465,254	

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

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 Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	14		315

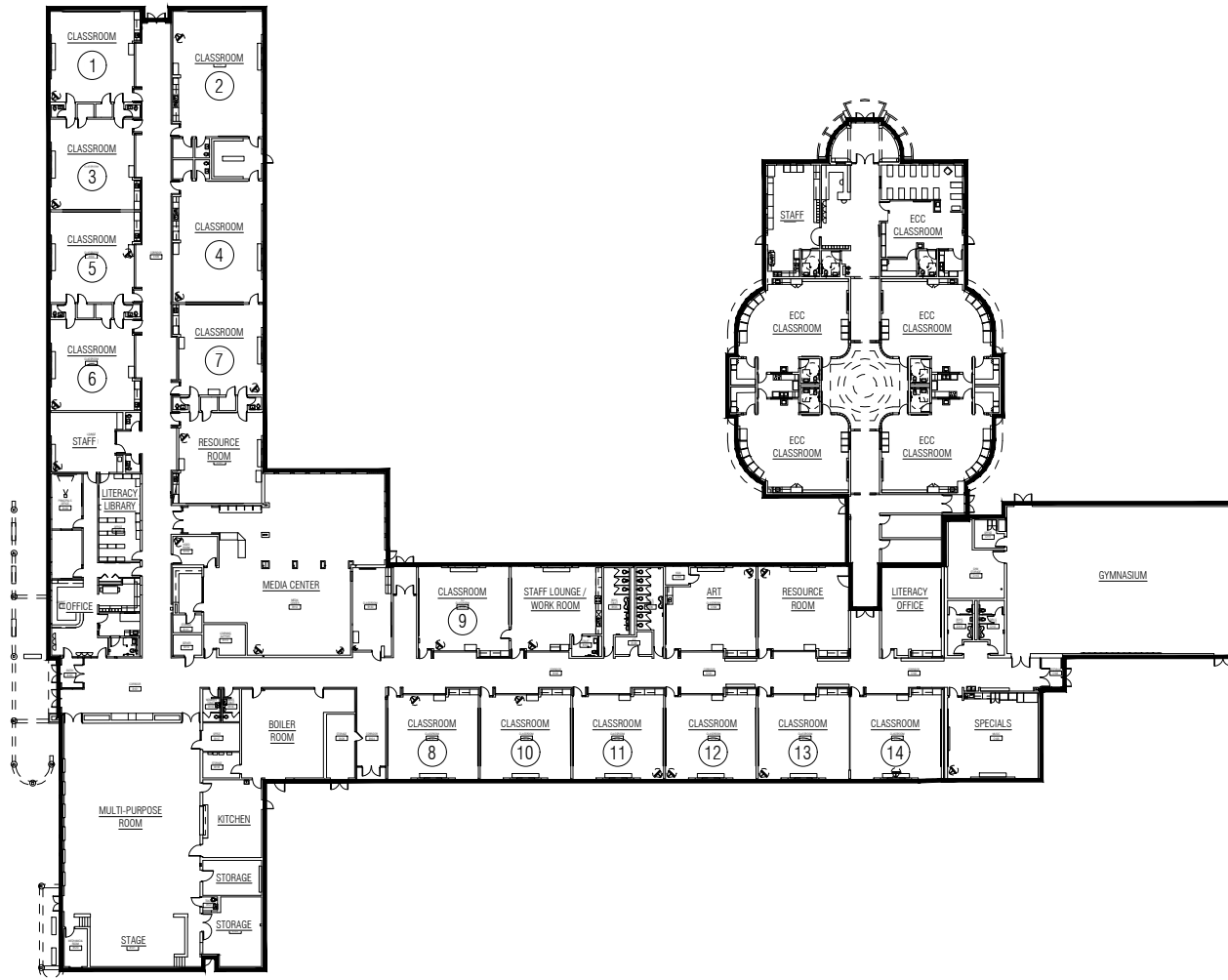
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 350




Utilization Percentage 111%

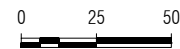
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Graham Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Green Elementary				Project No. [n]	4
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input checked="" type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

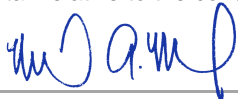
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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.



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Green Elementary

Year Built: 2009

47260 Sugarbush Road, Chesterfield, MI

Building Size: 71,473

Building Project Work List

Site Size: 7.75

1.158

Date: 11/17/23

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

Exterior Work

Roofing									
		roof work - priority 2 (snow guards)	1	lpsm	4,000.00	4,000	4,631	6,118	3
Envelope									
		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
Exterior Work Subtotal:						84,220	97,495	128,822	

Interior Work

		replace casework (countertops and hardware)	1	lpsm	22,500.00	22,500	26,047	34,416	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	3
		renovate toilet room & locker room	800	sqft	275.00	220,000	254,678	336,510	3
		replace carpet (classrooms, media center, offices)	38,500	lpsm	9.00	346,500	401,117	530,004	3
		replace VCT flooring (gym, cafeteria, service)	4,000	sqft	8.00	32,000	37,044	48,947	3
		replace architectural trim out/specialties	1	lpsm	15,000.00	15,000	17,364	22,944	3
		renovate space for emerging programs	1,000	sqft	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	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	lpsm	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	lpsm	316,378.00	316,378	366,247	483,930	3
		replace AC chiller, rooftop units, classroom units, refurbish mezzanine units	1	lpsm	127,200.00	127,200	147,250	194,564	3
		replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1
Integrated Automation									
		upgrade temperature control system	71,473	sqft	6.00	428,838	496,434	655,948	3
Mechanical Systems Subtotal:						1,019,456	1,180,148	1,559,353	

Electrical Systems

Power									
		electrical to support technology	32	ea	1,500.00	48,000	55,566	73,420	2
Lighting									
		upgrade building exterior lighting	16	ea	850.00	13,600	15,744	20,802	3
		upgrade classroom lighting	31,640	sqft	6.50	205,660	238,077	314,576	3
Electrical Systems Subtotal:						267,260	309,387	408,799	
Construction Subtotal:						2,246,936	2,601,109	3,436,898	

Technology Infrastructure

		data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	2
		demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	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	13	ea	4,000.00	52,000	60,197	73,831	1
		replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1
		update wireless infrastructure	1	ea	1,200.00	1,200	1,389	1,704	2
		upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1
Technology Infrastructure Subtotal:						106,600	123,403	151,354	

Technology Safety & Security

		upgrade security camera system	30	ea	1,500.00	45,000	52,093	63,892	1
		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	71,473	sf	0.60	42,884	49,643	60,888	2
		replace PA systems	71,473	sf	0.50	35,737	41,369	50,740	2
Technology Safety & Security Subtotal:						199,120	230,507	282,716	

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Green Elementary

Year Built: 2009

47260 Sugarbush Road, Chesterfield, MI

Building Size: 71,473

Building Project Work List

Site Size: 7.75

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
Technology & Safety Infrastructure Subtotal:						305,720	353,909	434,070	
REMODELING SUBTOTAL:						2,552,656	2,955,019	3,870,968	

SITE WORK

Site Paving

repave parking lot including stormwater management	1	sqft	637,100.00	637,100	737,523	974,504	3	
Site Paving Subtotal:						637,100	737,523	974,504

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	2	
upgrade playground soft surfaces	7,900	sqft	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 furnishings	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	lpsm	5,000.00	5,000	5,788	7,648	3	
Site Improvement Subtotal:						602,654	697,647	921,815
SITE WORK SUBTOTAL:						1,239,754	1,435,170	1,896,319

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)	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	each	9,000.00	261,000	302,140	370,575	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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						1,037,348	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	1	lpsm	10,000.00	10,000	11,576	14,198	1
purchase radio / walkie-talkies	36	each	400.00	14,400	16,670	20,446	1
Non-Instructional Equipment Subtotal:						32,298	39,613

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1		183,855.00	183,855	212,835	261,042	3
F, F, & E Subtotal:						212,835	261,042
F, F, & E SUBTOTAL:						245,133	300,655

PROJECT TOTAL:						5,672,670	7,340,249
Construction Contingency:						567,267	
Permits / General Conditions:						177,596	
Design Consultants:						481,315	
C.M. Costs:						441,401	
BUILDING TOTAL:						7,340,249	

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

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
Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	19		425

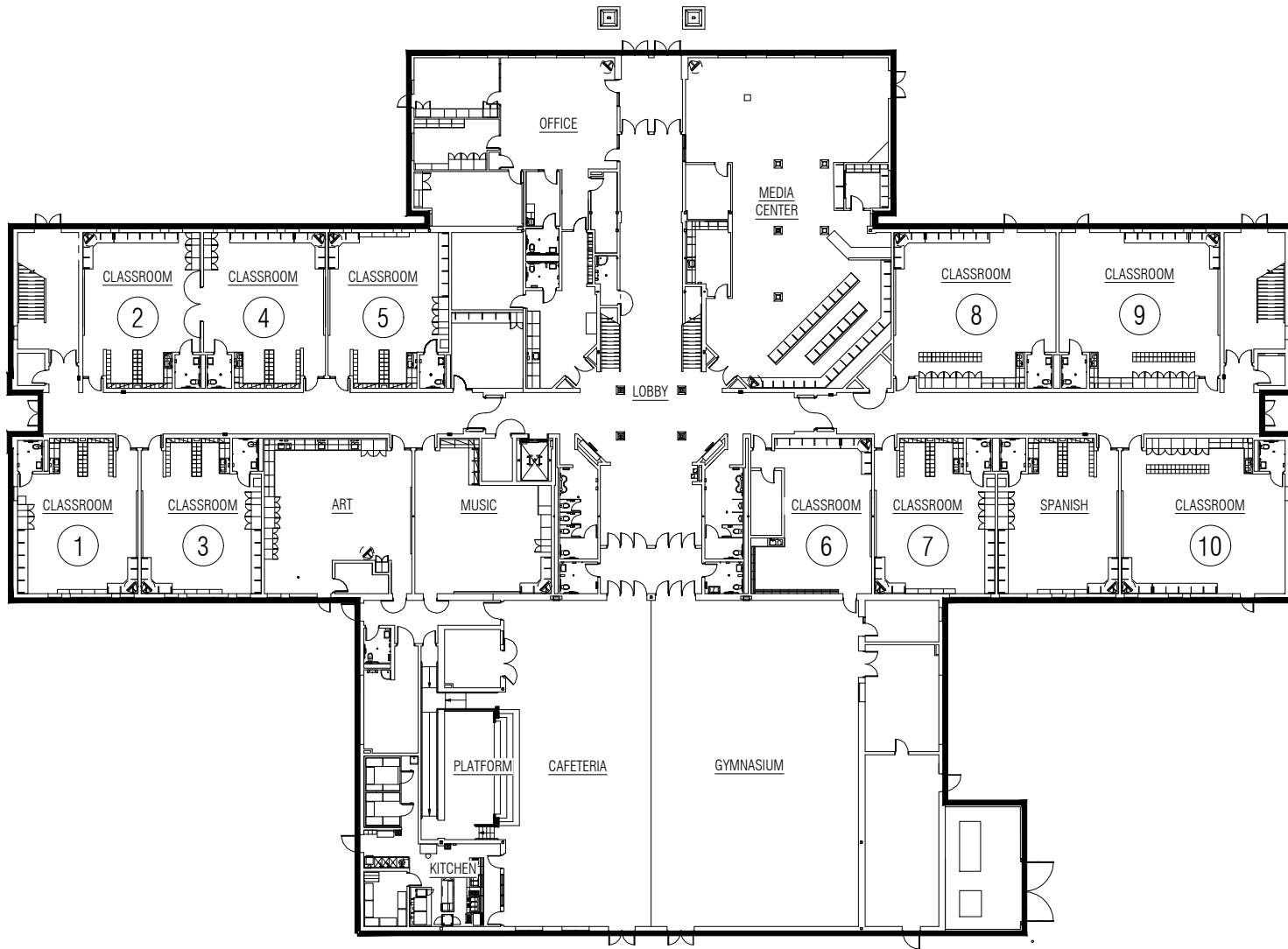
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

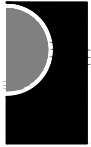
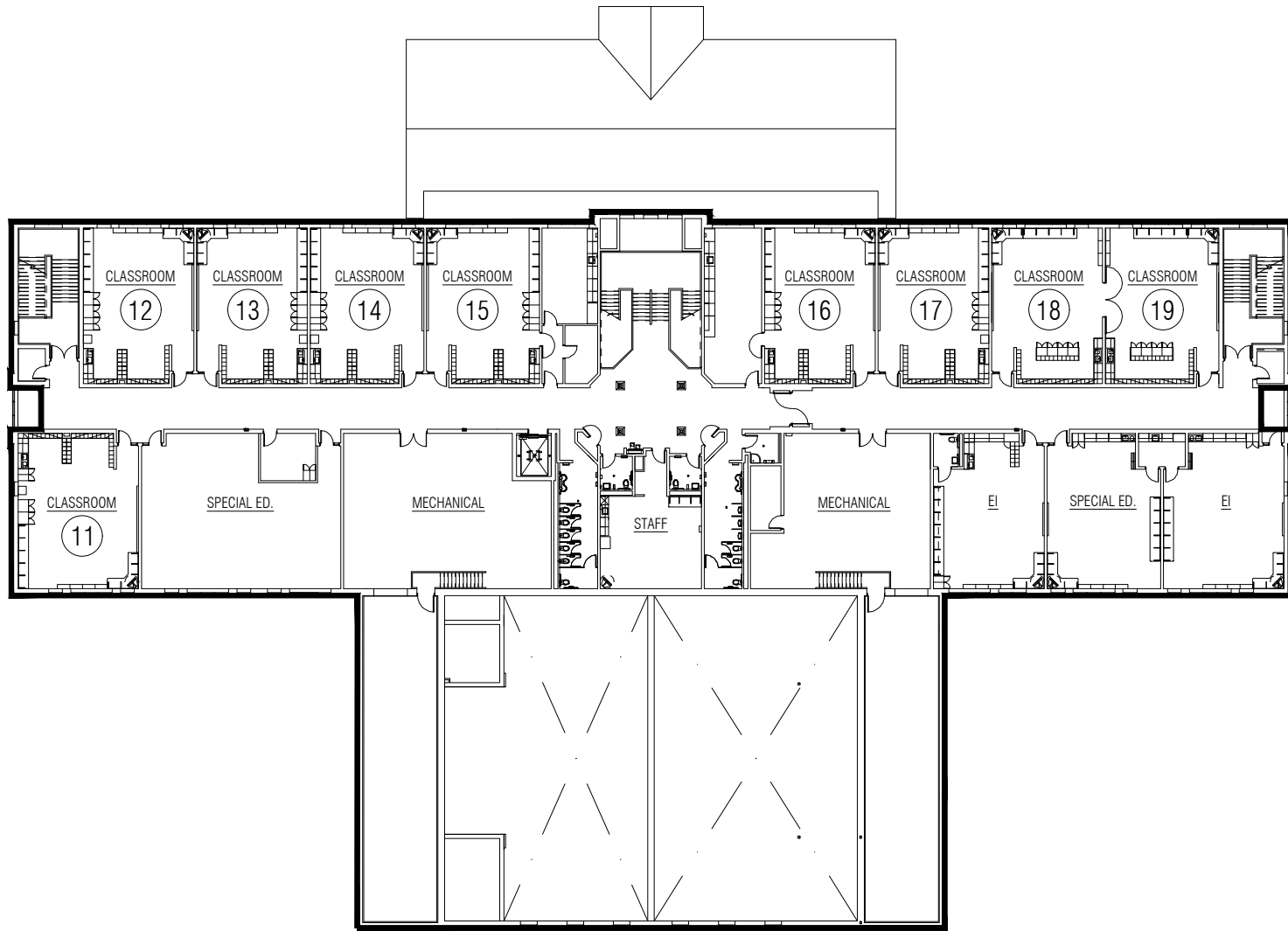
Projected 5-Year Enrollment 450

Utilization Percentage 106%




(Projected 5-Year Enrollment / Total Capacity)

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





PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Green Elementary Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Higgins Elementary				Project No. [n]	5
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

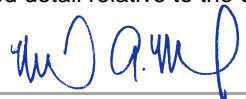
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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 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.


11/28/2023 PARTNERS in Architecture, PLC #44723
 Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program
Higgins Elementary
 29901 24-Mile Road, Chesterfield, MI

Grades: K-5
 Year Built: 1995
 Building Size: 66,129
 Site Size: 17.46

1.158 Date: 11/17/23

Building Project Work List

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

Exterior Work

Envelope

replace exterior masonry	1	lpsm	14,400.00	14,400	16,670	22,026	2
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	2
replace select exterior envelop materials	1	lpsm	40,350.00	40,350	46,710	61,719	2
reroute roof overflow drainage	1	lpsm	57,600.00	57,600	66,679	88,105	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)	1	lpsm	65,000.00	65,000	75,246	99,424	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	40,000.00	40,000	46,305	61,184	2
toilet room & locker room renovation	800	sqft	275.00	220,000	254,678	336,510	2
replace carpet (classrooms, media center, offices)	53,500	lpsm	9.00	481,500	557,396	736,499	2
replace VCT flooring (gym, cafeteria, service)	4,000	sqft	8.00	32,000	37,044	48,947	2
replace ceilings	64,000	lpsm	10.00	640,000	740,880	978,940	2
replace architectural trim out/specialties	1	lpsm	16,000.00	16,000	18,522	24,473	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	135,000.00	135,000	156,279	206,495	2

Interior Work Subtotal: 2,146,816 2,836,630

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	2
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
replace mdf/idf air conditioning	1	ea	15,000.00	15,000	17,364	22,944	1

Integrated Automation

upgrade temperature control system	66,129	sqft	6.00	396,774	459,316	606,903	2
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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
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Lighting

upgrade building exterior lighting	20	ea	850.00	17,000	19,680	26,003	2
upgrade classroom lighting	31,020	sqft	6.50	201,630	233,412	308,412	2

Electrical Systems Subtotal: 301,712 398,658

Construction Subtotal: 4,482,255 5,922,493

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	66,129	sf	0.65	42,984	49,759	61,030	2
replace network switches - core/aggregate	1	ea	5,000.00	5,000	5,788	7,099	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1
replace rack UPS	1	ea	1,200.00	1,200	1,389	1,704	1
update wireless infrastructure	39	ea	1,200.00	46,800	54,177	66,448	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 195,041 239,218

Technology Safety & Security

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	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 - 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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Technology & Safety Infrastructure Subtotal: 418,743 513,588
REMODELING SUBTOTAL: 4,900,997 6,436,081

SITE WORK

Site Paving

repave sw parking lot, driveways, & sidewalks including stormwater mgnt	121,600	sqft	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 Paving Subtotal:						1,764,458	2,331,413

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1
upgrade playground soft surfaces	8,000	sqft	25.00	200,000	231,525	305,919	1
replace playground pavement surfaces	36,000	lpsm	2.00	72,000	83,349	110,131	3
replace athletic fields, exterior courts, & furnishings	2	ea	75,000.00	150,000	173,644	229,439	3
replace landscaping, fences, gates, screen walls, and site furnishings	1	lpsm	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 Improvement Subtotal:						886,639	1,171,534
SITE WORK SUBTOTAL:						2,651,097	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	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)	457	each	400.00	182,600	211,382	259,260	1
mobile device storing/charging (classroom)	25	each	400.00	10,000	11,576	14,198	1
mobile device storing/charging (carts)	2	each	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	7,099	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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						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	32	each	400.00	12,800	14,818	18,174	1
Non-Instructional Equipment Subtotal:						30,446	37,341

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	198,855.00	198,855	230,200	282,340	1
purchase kitchen equipment	1	lpsm	62,500.00	62,500	72,352	95,600	1
F,F,&E Subtotal:						302,551	377,939
F, F, & E SUBTOTAL:						332,997	415,281

PROJECT TOTAL: 8,835,686 11,520,214

Construction Contingency: 883,569
 Permits / General Conditions: 317,051
 Design Consultants: 752,723
 C.M. Costs: 731,185

BUILDING TOTAL: 11,520,214

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

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

Proposed New	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Subtotal	0		0
Total	17		390

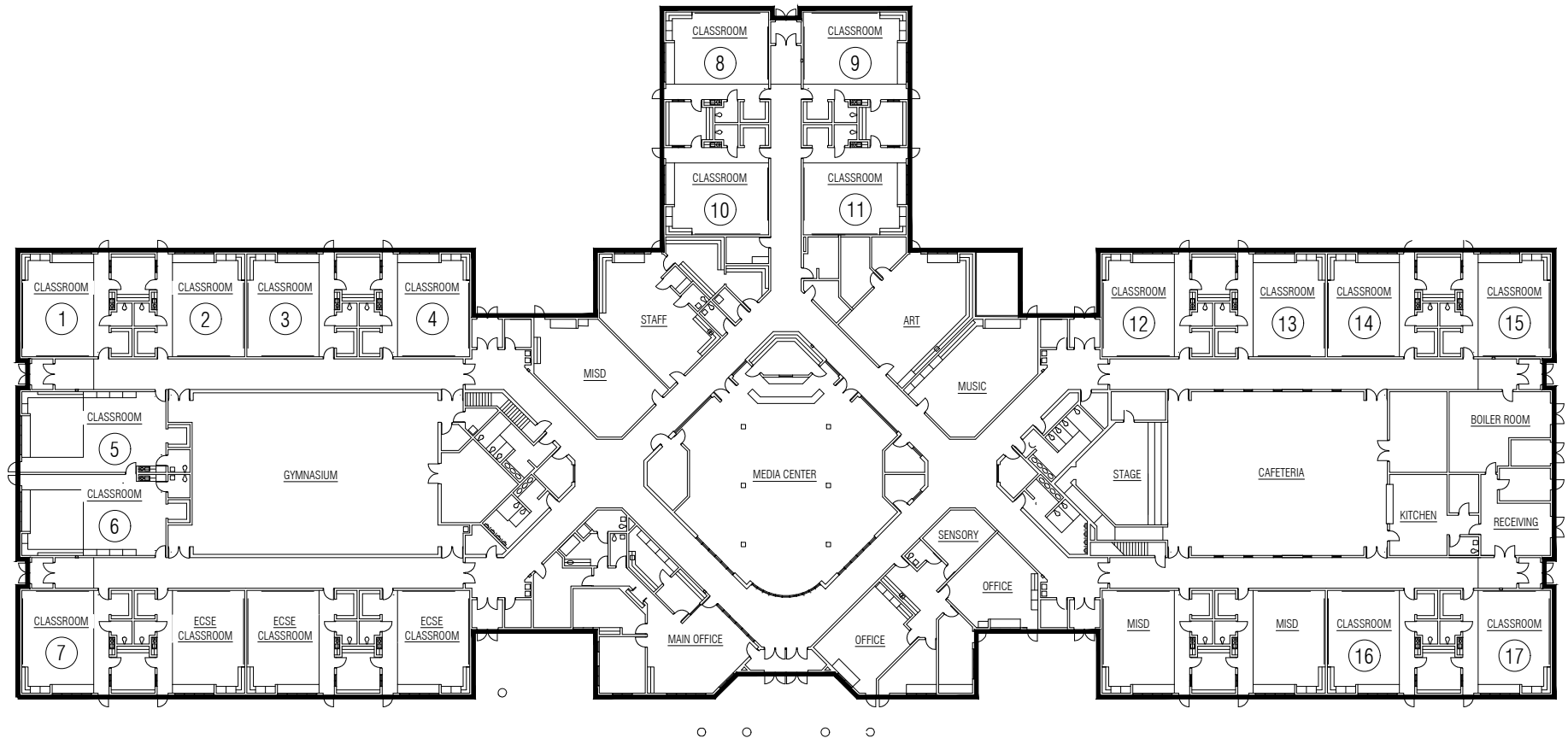
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 434




Utilization Percentage 111%

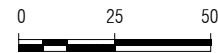
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Higgins Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Lobbestsel Elementary				Project No. [n]	6
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

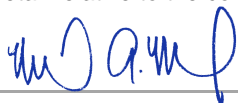
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Lobbestael Elementary

Year Built: 1972

38495 Prentiss, Harrison Twp, MI

Building Size: 52,630

Building Project Work List

Site Size: 8.00

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	1	lpsm	2,500.00	2,500	2,894	3,824	3
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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	127,339	168,255	3

Exterior Work Subtotal: 217,055 286,799

Interior Work

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	sqft	8.00	100,000	115,763	152,959	3
replace ceilings	1,500	sqft	14.00	21,000	24,310	32,121	3
renovate space for emerging programs	1,000	sqft	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	ea	135,000.00	135,000	156,279	206,495	2

Interior Work Subtotal: 1,073,987 1,419,080

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	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	sqft	6.00	315,780	365,555	483,015	3
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Mechanical Systems Subtotal: 833,652 1,101,521

Electrical Systems

Power

upgrade electrical systems - Priority 1	1	lpsm	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	sqft	6.50	180,765	209,258	276,497	3

Electrical Systems Subtotal: 280,307 370,376

Construction Subtotal: 2,405,001 3,177,775

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	52,630	sf	0.65	34,210	39,602	48,572	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	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	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

Technology Infrastructure 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	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	52,630	sf	0.60	31,578	36,555	44,835	2
replace PA systems	52,630	sf	0.50	26,315	30,463	37,363	2

Technology Safety & Security Subtotal: 206,512 253,287

Technology & Safety Infrastructure Subtotal: 393,595 482,745

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Lobbestael Elementary

Year Built: 1972

38495 Prentiss, Harrison Twp, MI

Building Size: 52,630

Building Project Work List

Site Size: 8.00

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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REMODELING SUBTOTAL: 2,798,596 3,660,520

SITE WORK

Site Paving

repave bus loop, new concrete drives and UG stormwater structures	6,200	sqft	19.09	118,358	137,014	181,040	3
repave parking lots, replace sidewalks	33,500	sqft	7.83	262,305	303,651	401,220	3
Site Paving Subtotal:						440,665	582,259

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1
upgrade playground soft surfaces	7,300	sqft	25.00	182,500	211,267	279,151	1
replace playground pavement surfaces	1	lpsm	10,000.00	10,000	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	91,776	3
update storage facilities	1	lpsm	5,000.00	5,000	5,788	7,648	3
Site Improvement Subtotal:						593,514	784,222
SITE WORK SUBTOTAL:						1,034,179	1,366,482

INSTRUCTIONAL TECHNOLOGY

Computers 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

Audiovisual

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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						812,048	995,977

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	31	each	400.00	12,400	14,355	17,606	1
Non-Instructional Equipment Subtotal:						29,982	36,774

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	138,855.00	138,855	160,742	197,150	3
F,F,&E Subtotal:						160,742	197,150
F, F, & E SUBTOTAL:						190,725	233,924

PROJECT TOTAL: 4,835,548 6,256,903

Construction Contingency: 483,555

Permits / General Conditions: 151,324

Design Consultants: 410,282

C.M. Costs: 376,194

BUILDING TOTAL: 6,256,903

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

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

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

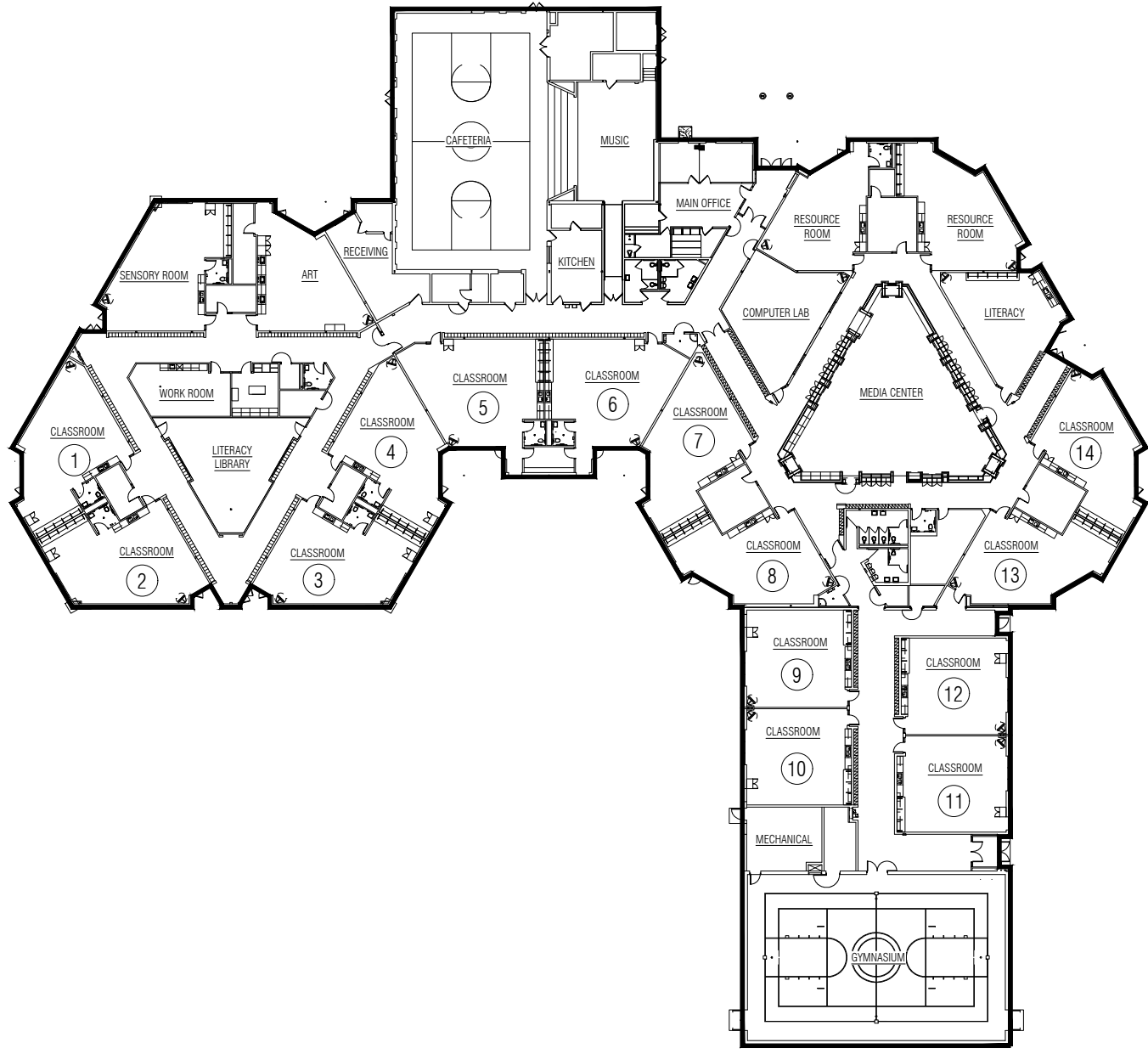
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 350

Utilization Percentage 109%




(Projected 5-Year Enrollment / Total Capacity)

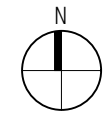
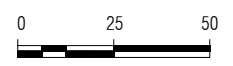
Please transfer applicable information to the Utilization Summary on Page 6 of the application.



PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



Lobbestael Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

South River Elementary				Project No. [n]	7
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

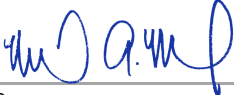
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	12,600	sqft	25.00	315,000	364,652	481,822	3
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Envelope

replace exterior masonry	1	lpsm	37,700.00	37,700	43,642	57,666	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	4,900.00	4,900	5,672	7,495	3
replace select exterior doors	23	ea	5,500.00	126,500	146,440	193,494	3

Exterior Work Subtotal: 585,874 774,127

Interior Work

replace casework (countertops and hardware)	1	lpsm	15,000.00	15,000	17,364	22,944	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	40,000.00	40,000	46,305	61,184	3
toilet room & locker room renovation	800	sqft	275.00	220,000	254,678	336,510	3
replace carpet (classrooms, media center, offices)	30,000	lpsm	9.00	270,000	312,559	412,990	3
replace VCT flooring (gym, cafeteria, service)	4,000	sqft	8.00	32,000	37,044	48,947	3
renovate space for emerging programs	1,000	sqft	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	3

Interior Work Subtotal: 899,475 1,188,494

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	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
replace mdff/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1

Integrated Automation

upgrade temperature controls	71,473	sqft	6.00	428,838	496,434	655,948	3
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Mechanical Systems Subtotal: 497,118 607,057 (581,437)

Electrical Systems

Power

electrical to support technology	29	ea	1,500.00	43,500	50,357	66,537	2
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Lighting

upgrade building exterior lighting	21	ea	850.00	17,850	20,664	27,303	3
upgrade classroom lighting	31,640	sqft	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	1	ea	10,000.00	10,000	11,576	14,198	2
demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	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	10	ea	4,000.00	40,000	46,305	56,793	1
replace rack UPS	2	ea	1,200.00	2,400	2,778	3,408	1
update wireless infrastructure	36	ea	1,200.00	43,200	50,009	61,337	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 158,132 193,948

Technology Safety & Security

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	71,561	sf	0.60	42,937	49,704	60,963	2
replace PA systems	71,561	sf	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 - 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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SITE WORK

Site Paving									
		replace site paving - priority 1 (include UG stormwater structure)	47,300	sqft	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 Paving Subtotal:							1,012,989	1,338,483	

Site Improvements									
		upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	2
		upgrade playground soft surfaces	8,633	sqft	25.00	215,825	249,844	330,124	2
		replace playground pavement surfaces	31,000	sqft	1.00	31,000	35,886	47,417	3
		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 Improvement Subtotal:							688,005	909,075	
SITE WORK SUBTOTAL:							1,700,994	2,247,558	

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	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)	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 (carts)	2	each	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									
		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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							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	lpsm	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
Non-Instructional Equipment Subtotal:							30,909	37,909	
Furniture, Furnishings & Equipment (FFE)									
		purchase furniture	1	lpsm	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
F, F, & E Subtotal:							276,505	339,133	
F, F, & E SUBTOTAL:							307,413	377,042	

PROJECT TOTAL:							6,431,416	8,330,299	
Construction Contingency:							643,142		
Permits / General Conditions:							205,182		
Design Consultants:							545,980		
C.M. Costs:							504,579		
BUILDING TOTAL:							8,330,299		

Notes:
 Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

South River Elementary

Project No. [n] 7

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

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

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

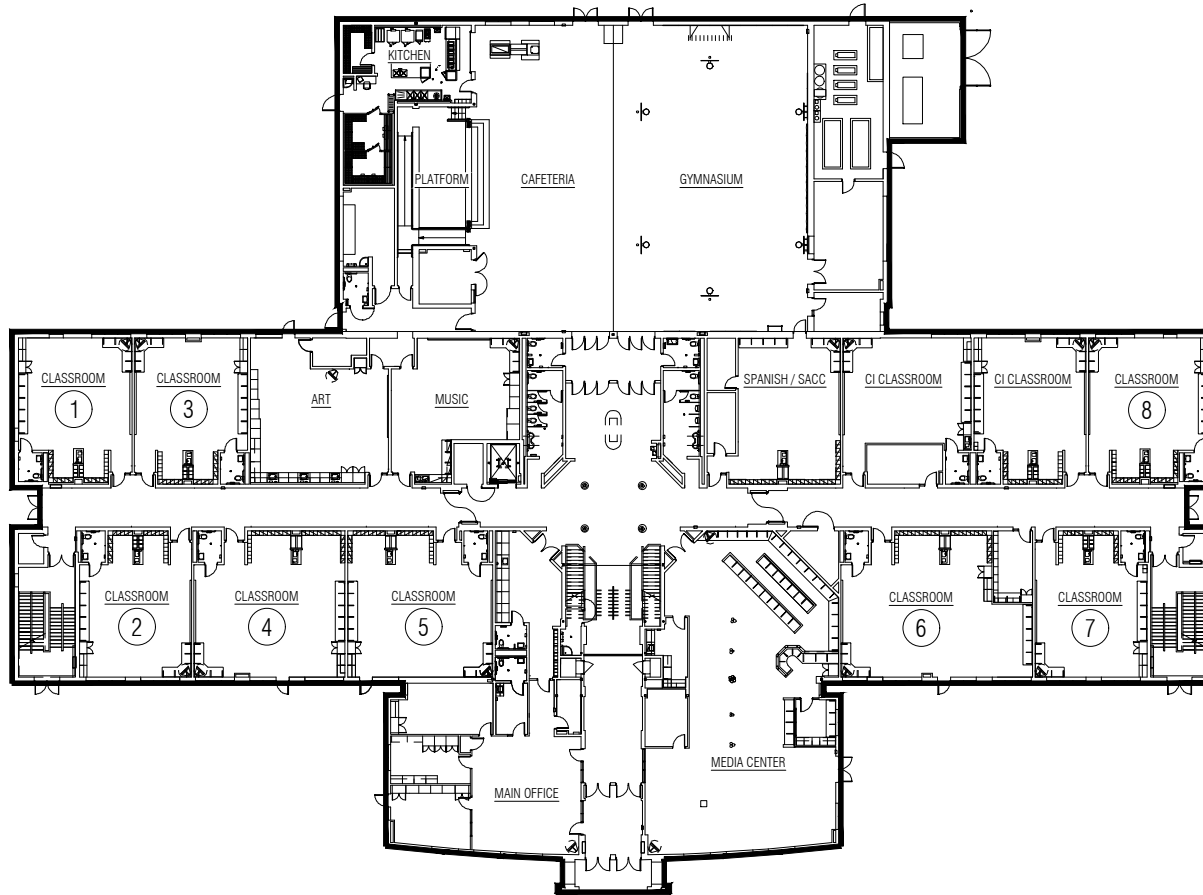
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 450




Utilization Percentage 110%

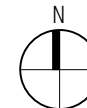
(Projected 5-Year Enrollment / Total Capacity)

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

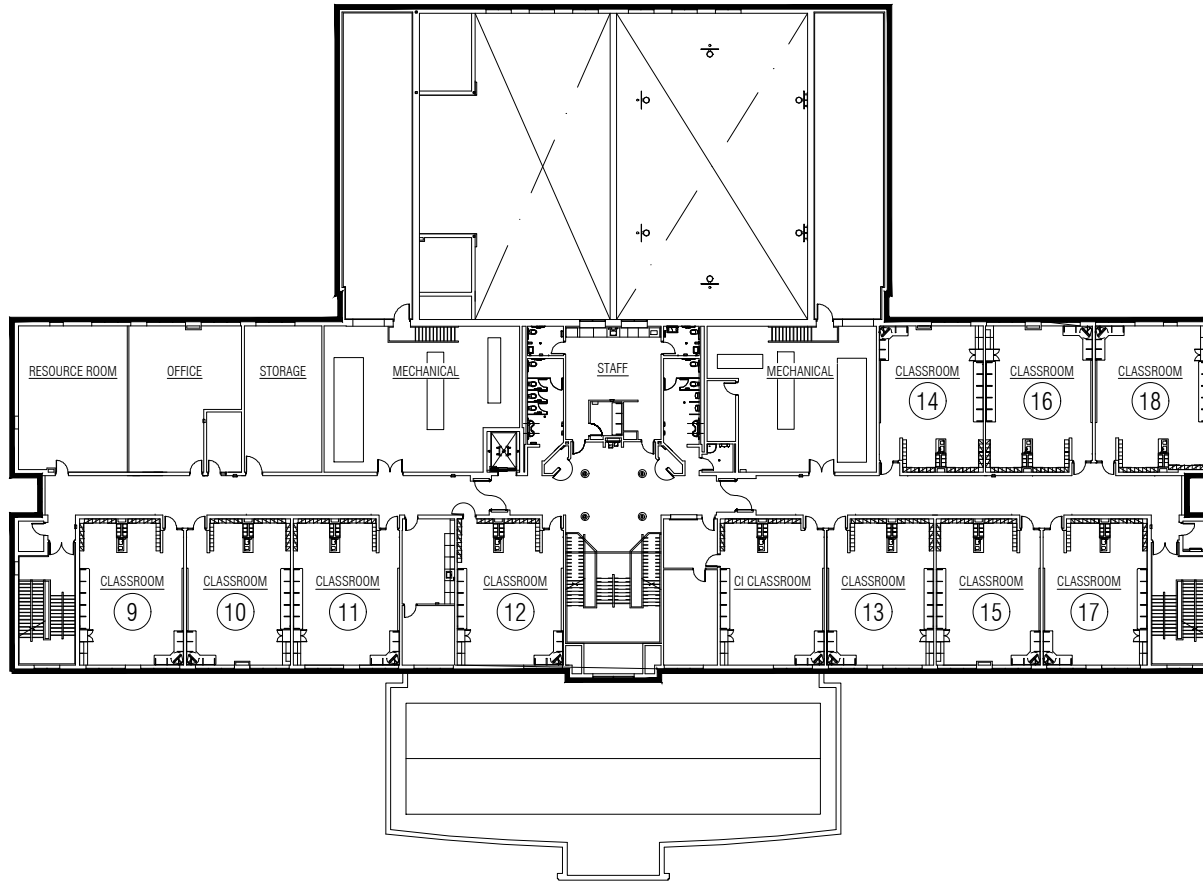


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  # TEACHING STATION



South River Elementary First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



South River Elementary Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Tenniswood Elementary				Project No. [n]	8
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

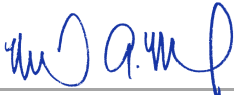
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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 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.


11/28/2023 PARTNERS in Architecture, PLC #44723
 Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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REMODELING WORK

Exterior Work

Roofing

roof work - priority 1	1	lpsm	4,550.00	4,550	5,267	6,960	3
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Envelope

relace exterior masonry	1	lpsm	73,240.00	73,240	84,784	112,027	3
upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	12,100.00	12,100	14,007	18,508	3
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
renovate space for emerging programs	1,000	sqft	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	150,000.00	150,000	173,644	229,439	2

Interior Work Subtotal: 1,116,471 1,475,216

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	lpsm	41,240.00	41,240	47,740	63,080	3

HVAC System

select roof top units, classroom units, valves, pumps, & select piping	1	lpsm	241,585.00	241,585	279,665	369,527	3
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
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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
electrical to support technology	26	ea	1,500.00	39,000	45,147	59,654	2

Lighting

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	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	52,620	sf	0.65	34,203	39,594	48,562	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	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	31	ea	1,200.00	37,200	43,064	52,818	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 188,465 231,152

Technology Safety & Security

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	52,620	sf	0.60	31,572	36,549	44,827	2
replace PA systems	52,620	sf	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 - 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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SITE 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 Paving Subtotal:							286,156	378,104

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1	
upgrade playground soft surfaces	8,250	sqft	25.00	206,250	238,760	315,479	1	
replace playground pavement surfaces	6,000	sqft	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 Improvement Subtotal:							620,776	820,244
SITE WORK SUBTOTAL:							906,933	1,198,348

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	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	
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							856,411	1,050,388

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	30	each	400.00	12,000	13,892	17,038	1	
Non-Instructional Equipment 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

PROJECT TOTAL: 4,985,292 6,450,470

Construction Contingency: 498,529

Permits / General Conditions: 155,921

Design Consultants: 422,981

C.M. Costs: 387,747

BUILDING TOTAL: 6,450,470

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

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

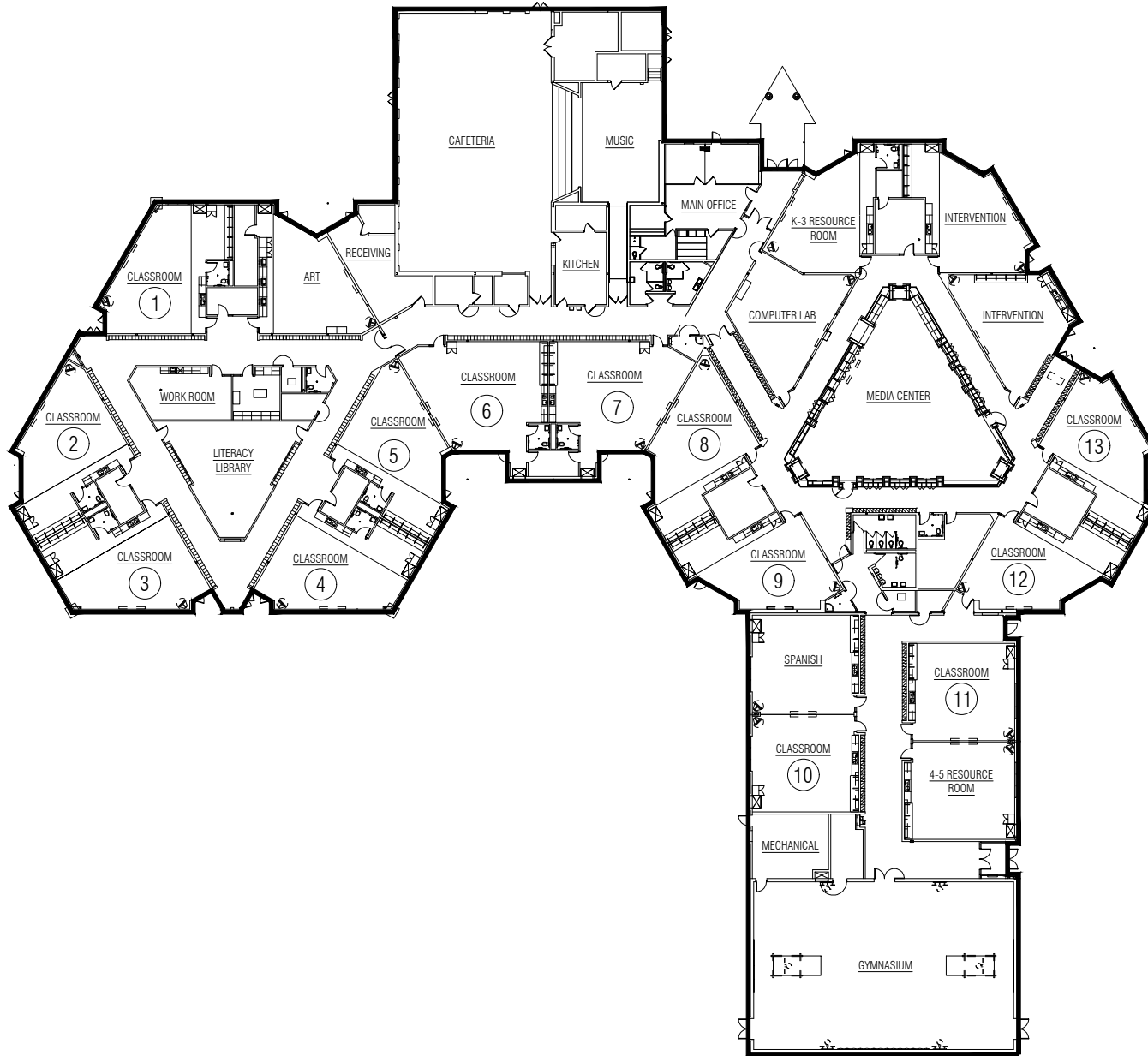
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 330




Utilization Percentage 110%

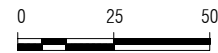
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Tenniswood Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Yacks Elementary				Project No. [n]	9
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)


<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> 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 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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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

Yacks Elementary

Year Built: 1976

34700 Union Lake Road, Harrison Twp, MI

Building Size: 56,567

Building Project Work List

Site Size: 9.97

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	1	lpsm	5,500.00	5,500	6,367	8,413	3
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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 Work Subtotal: 632,874 836,229

Interior Work

replace drywall partitions & paint due to construction	1	lpsm	50,000.00	50,000	57,881	76,480	2
renovate toilet room & locker room	750	sqft	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	sqft	8.00	109,200	126,413	167,032	3
replace architectural trim out/specialties	1	lpsm	10,000.00	10,000	11,576	15,296	3
renovate space for emerging programs	1,000	sqft	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

Interior Work 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	lpsm	40,840.00	40,840	47,277	62,469	3

HVAC System

select roof top units and classroom units, pumps, & valves	1	lpsm	203,492.00	203,492	235,567	311,260	3
replace mdf/idf air conditioning	3	ea	15,000.00	45,000	52,093	68,832	1

Integrated Automation

upgrade temperature controls	56,567	ea	6.00	339,402	392,900	519,147	3
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Mechanical Systems Subtotal: 815,818 1,077,956

Electrical Systems

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 Systems Subtotal: 307,435 406,220

Construction Subtotal: 3,178,674 4,200,045

Technology Infrastructure

demo coax/legacy cables	1	lpsm	7,500.00	7,500	8,682	10,649	2
replace cabling infrastructure	56,567	sf	0.65	36,769	42,564	52,205	2
replace fiber to IDFs	2	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	13	ea	4,000.00	52,000	60,197	73,831	1
replace rack UPS	3	ea	1,200.00	3,600	4,167	5,111	1
update wireless infrastructure	32	ea	1,200.00	38,400	44,453	54,521	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 202,895 248,851

Technology Safety & Security

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	sf	0.60	33,940	39,290	48,189	2
replace PA systems	56,567	sf	0.50	28,284	32,742	40,158	2

Technology Safety & Security Subtotal: 211,526 259,436

Technology & Safety Infrastructure Subtotal: 414,421 508,287

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: K-5

Yacks Elementary

Year Built: 1976

34700 Union Lake Road, Harrison Twp, MI

Building Size: 56,567

Building Project Work List

Site Size: 9.97

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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REMODELING SUBTOTAL: 3,593,095 4,708,332

SITE WORK

Site Paving

repave south lot	39,000	sqft	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
Site Paving Subtotal:						768,547	1,015,497

Site Improvements

upgrade playground equipment	1	lpsm	250,000.00	250,000	289,406	382,398	1
upgrade playground soft surfaces	8,000	sqft	25.00	200,000	231,525	305,919	1
replace playground pavement surfaces	27,000	sqft	1.00	27,000	31,256	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	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 Improvement Subtotal:						720,043	951,407
SITE WORK SUBTOTAL:						1,488,590	1,966,904

INSTRUCTIONAL 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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:						877,408	1,076,141

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	35	each	400.00	14,000	16,207	19,878	1
Non-Instructional Equipment Subtotal:						31,835	39,045

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	138,855.00	138,855	160,742	197,150	3
F,F,&E Subtotal:						160,742	197,150
F, F, & E SUBTOTAL:						192,577	236,195

PROJECT TOTAL: 6,151,669 7,987,572

Construction Contingency: 615,167
 Permits / General Conditions: 205,360
 Design Consultants: 522,915
 C.M. Costs: 492,462

BUILDING TOTAL: 7,987,572

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

Yacks Elementary

Project No. [n] 9

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

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

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

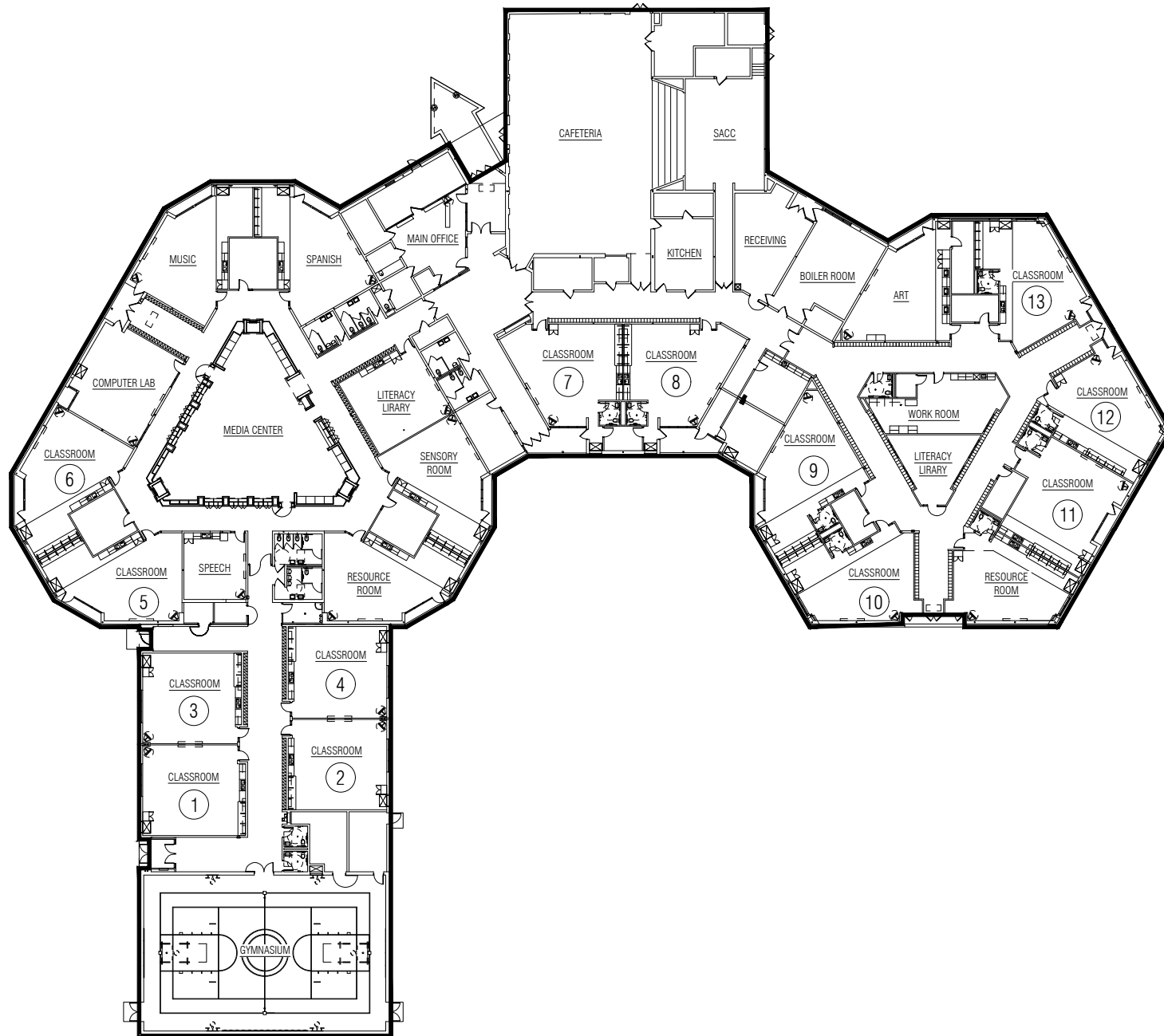
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 330




Utilization Percentage 110%

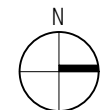
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Yacks Elementary
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School Central				Project No. [n]	10
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

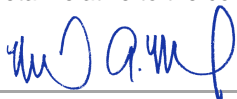
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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.



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School Central

Year Built: 1957

3800 Reimold Road, Harrison Twp, MI

Building Size: 101,828

Building Project Work List

Site Size: 13.33

1.158

Date: 11/17/23

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

Exterior Work

Roofing

replace select gutters & downspouts	1	lpsm	2,000.00	2,000	2,315	3,059	2
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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	1	lpsm	77,000.00	77,000	89,137	117,779	2
reroute roof overflow drainage	1	lpsm	9,900.00	9,900	11,460	15,143	2
replace EIFS with metal panels	5,015	sqft	70.00	351,050	406,384	536,964	2
replace select exterior doors	36	ea	5,500.00	198,000	229,210	302,859	1

Exterior Work 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)	12,000	sf	8.00	96,000	111,132	146,841	3
replace architectural trim out/specialties	1	lpsm	25,000.00	25,000	28,941	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)	1	lpsm	373,000.00	373,000	431,794	570,538	2

Interior Work 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

replace roof top units and classroom units, valves, pumps, & piping	1	lpsm	1,622,924.11	1,622,924	1,878,738	2,482,413	3
replace mdf/idf air conditioning	5	ea	15,000.00	75,000	86,822	114,719	1

Integrated Automation

upgrade temperature control system	101,828	sqft	6.00	610,968	707,272	934,532	3
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Mechanical Systems Subtotal: 2,911,418 3,846,914

Electrical Systems

Power

electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	2
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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 Systems Subtotal: 446,284 589,684

Construction Subtotal: 6,061,153 8,008,723

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	101,828	sf	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
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1
replace rack UPS	5	ea	1,200.00	6,000	6,946	8,519	1
update wireless infrastructure	62	ea	1,200.00	74,400	86,127	105,635	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1

Technology Infrastructure Subtotal: 366,490 449,500

Technology Safety & Security

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

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School Central

Year Built: 1957

3800 Reimold Road, Harrison Twp, MI

Building Size: 101,828

Building Project Work List

Site Size: 13.33

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		upgrade access control headend	1	lpsm	20,000.00	20,000	23,153	28,397	1
		install emergency alert system	101,828	sf	0.60	61,097	70,727	86,747	2
		replace PA systems	101,828	sf	0.50	50,914	58,939	72,289	2
Technology Safety & Security Subtotal:							312,571	383,369	
Technology & Safety Infrastructure Subtotal:							679,062	832,869	
REMODELING 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 Paving Subtotal:							1,578,554	2,085,776

Site Improvements

replace fences, gates, screen walls, and site furnishings	1	lpsm	8,460.00	8,460	9,794	12,940	2	
upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3	
update storage facilities	1	lpsm	5,300.00	5,300	6,135	8,107	2	
Site Improvement Subtotal:							85,386	112,823
SITE WORK 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	each	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	1	allo	316,723.00	316,723	366,646	449,692	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	
large group sound systems	3	each	30,000.00	90,000	104,186	127,784	2	
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							1,421,683	1,743,694

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	
Non-Instructional Equipment Subtotal:							41,096	50,404

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	183,855.00	183,855	212,835	281,223	3	
purchase kitchen equipment	1	lpsm	267,000.00	267,000	309,086	408,401	2	
F,F,&E Subtotal:							521,921	689,625
F, F, & E SUBTOTAL:							563,017	740,029

Notes: Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees	PROJECT TOTAL:	10,388,855	13,523,913
	Construction Contingency:	1,038,886	
	Permits / General Conditions:	362,869	
	Design Consultants:	884,296	
	C.M. Costs:	849,008	
	BUILDING TOTAL:	13,523,913	

Building Utilization

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

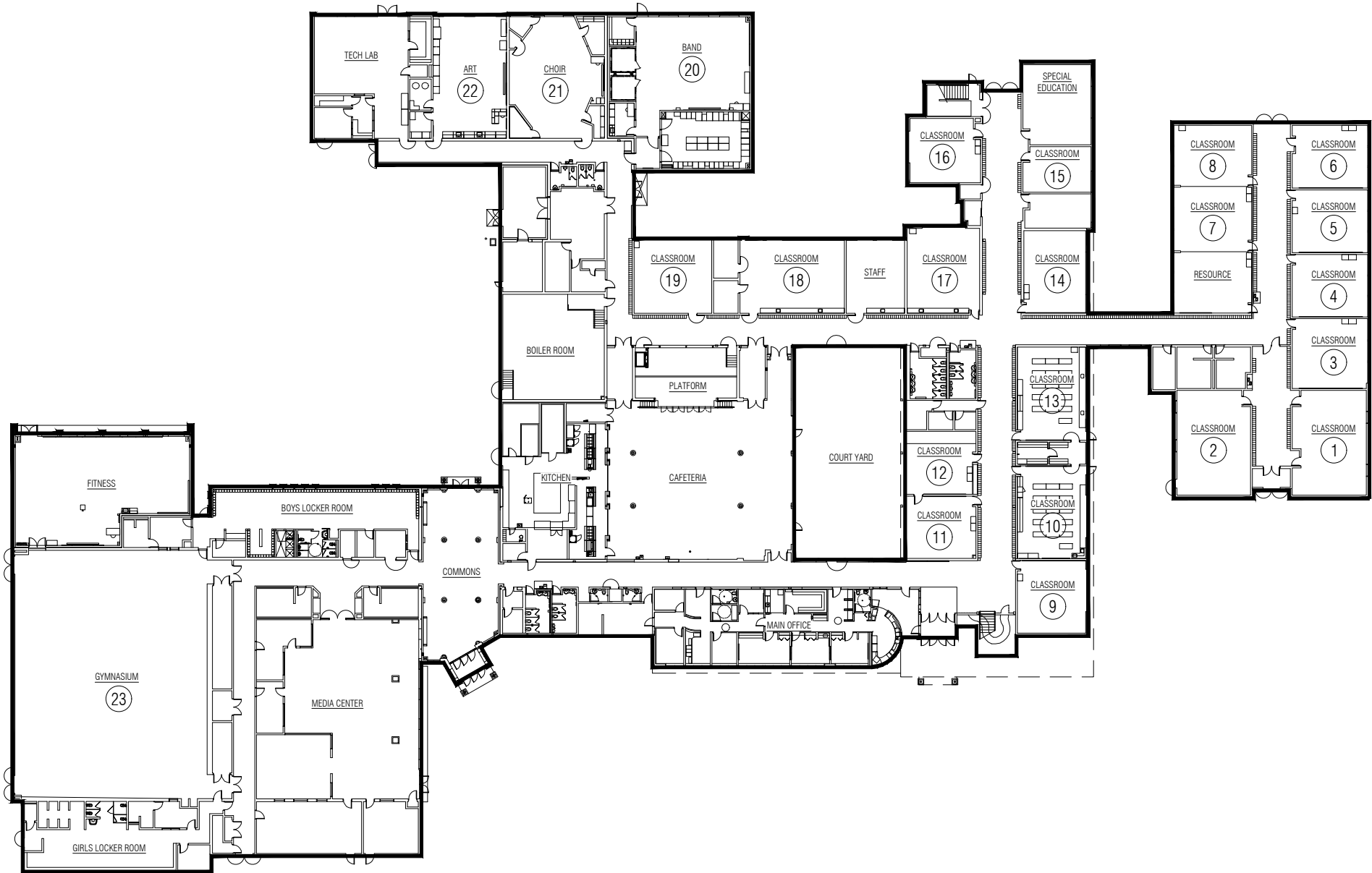
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 550




Utilization Percentage 70%

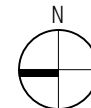
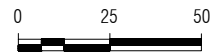
(Projected 5-Year Enrollment / Total Capacity)

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

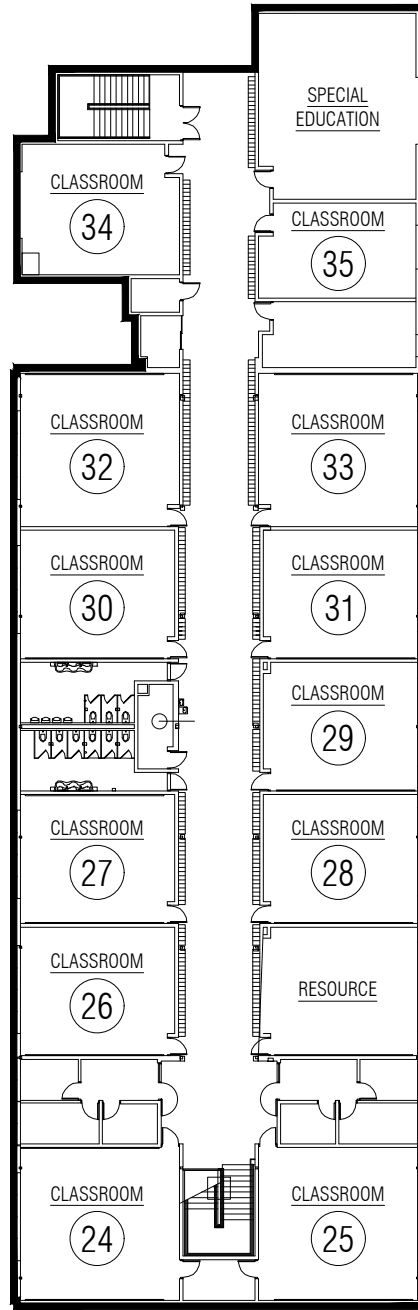


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- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

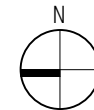


Middle School Central First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  # TEACHING STATION



Middle School Central Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School East				Project No. [n]	11
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

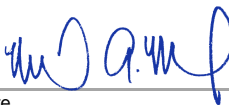
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program

Grades: 6-8

Middle School East

Year Built: 2000

30300 Hickey Road, Chesterfield, MI

Building Size: 132,974

Building Project Work List

Site Size: 46.01

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	157,000	sqft	5.00	785,000	908,736	1,200,731	2
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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	520	sqft	70.00	36,400	42,138	55,677	2
replace select exterior doors	70	ea	5,500.00	385,000	445,686	588,893	1

Exterior Work Subtotal: 1,571,952 2,077,052

Interior Work

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	lpsm	24,500.00	24,500	28,362	37,475	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

Interior Work Subtotal: 1,532,927 2,025,487

1,305,882

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	2
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	51,100.00	51,100	59,155	78,162	2

HVAC System

replace chiller, roof top units and classroom units, valves, pumps	1	lpsm	1,550,049.72	1,550,050	1,794,376	2,370,945	2
replace mdf/idf air conditioning	4	ea	15,000.00	60,000	69,458	91,776	1

Integrated Automation

upgrade temperature control system	132,974	sqft	6.00	797,844	923,604	1,220,377	2
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Mechanical Systems Subtotal: 2,934,572 3,877,509

Electrical Systems

Power

upgrade electrical systems - priority 1	1	lpsm	3,500.00	3,500	4,052	5,354	2
electrical to support technology	46	ea	1,500.00	69,000	79,876	105,542	2

Lighting

upgrade building exterior lighting	60	ea	850.00	51,000	59,039	78,009	2
upgrade classroom lighting	45,390	sqft	6.50	295,035	341,540	451,283	2

Electrical Systems Subtotal: 484,507 640,188

Construction Subtotal: 6,523,958 8,620,236

Technology Infrastructure

demo coax/legacy cables	1	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	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	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	ea	1,200.00	6,000	6,946	8,519	1
update wireless infrastructure	63	ea	1,200.00	75,600	87,516	107,339	2
upgrade phone system	1	lpsm	35,000.00	35,000	40,517	49,694	1

Technology Infrastructure Subtotal: 400,577 491,307

Technology Safety & Security

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
install emergency alert system	132,974	sf	0.60	79,784	92,360	113,280	2

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School East

Year Built: 2000

30300 Hickey Road, Chesterfield, MI

Building Size: 132,974

Building Project Work List

Site Size: 46.01

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		replace PA systems	132,974	sf	0.50	66,487	76,967	94,400	2
Technology Safety & Security Subtotal:							352,232	432,013	
Technology & Safety Infrastructure Subtotal:							752,809	923,320	
REMODELING SUBTOTAL:							7,276,767	9,543,556	

SITE WORK

Site Paving

repave lots and UG storm water structures	122,100	sqft	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 Paving 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	lpsm	60,000.00	60,000	69,458	91,776	3	
update storage facilities	1	lpsm	40,200.00	40,200	46,537	61,490	2	
Site Improvement Subtotal:							1,078,351	1,424,847
SITE WORK 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

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	
kiva audiovisual	1	lpsm	35,000.00	35,000	40,517	49,694	2	
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							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	
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	2	
F, F, & E Subtotal:							212,835	261,042
F, F, & E SUBTOTAL:							253,931	311,446

Notes: Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees	PROJECT TOTAL:	11,598,389	15,085,293
	Construction Contingency:	1,159,839	
	Permits / General Conditions:	399,011	
	Design Consultants:	986,793	
	C.M. Costs:	941,261	
BUILDING TOTAL:		15,085,293	

Building Utilization

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

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

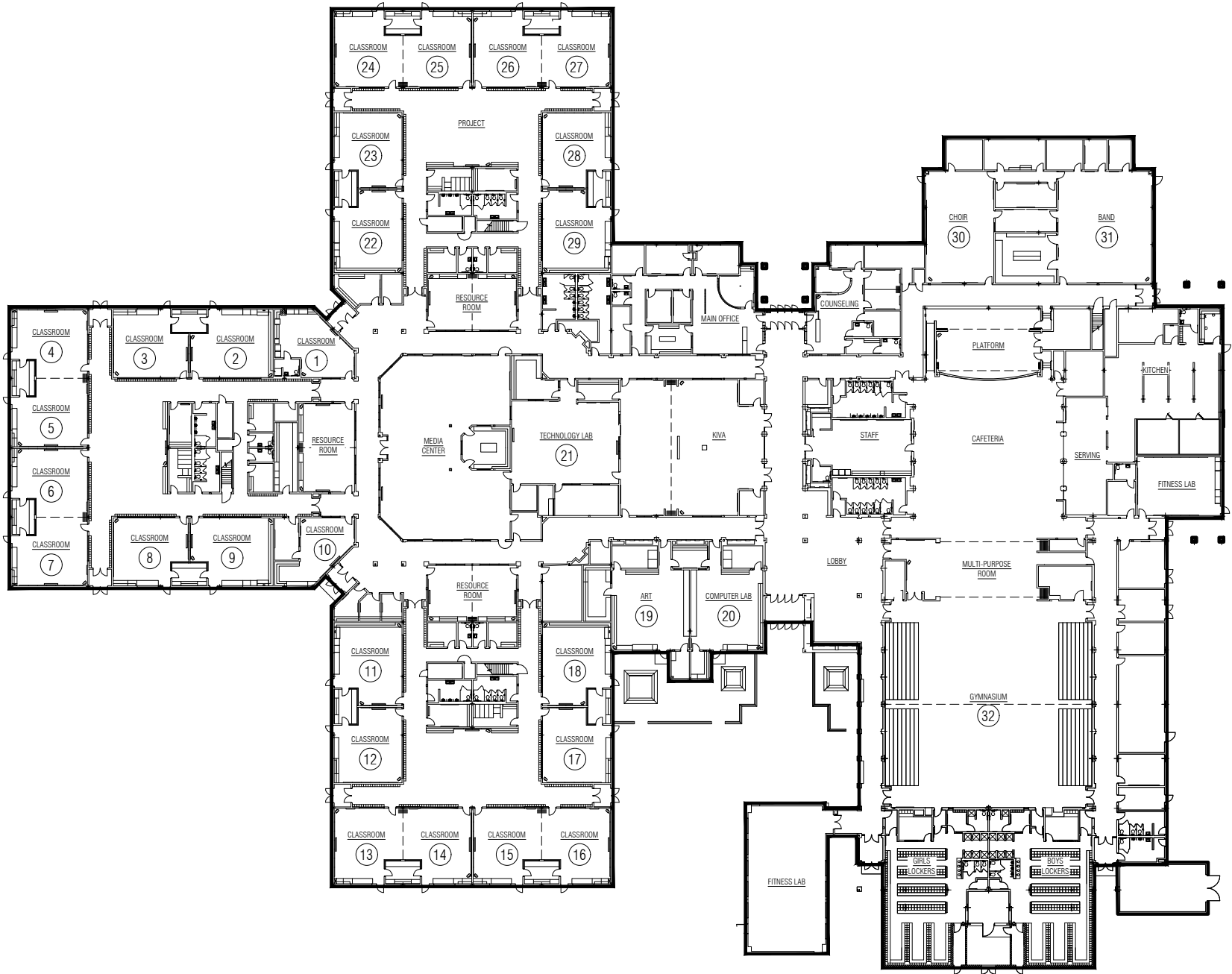
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 510




Utilization Percentage 71%

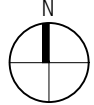
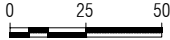
(Projected 5-Year Enrollment / Total Capacity)

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



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  # TEACHING STATION



Middle School East
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School North				Project No. [n]	12
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

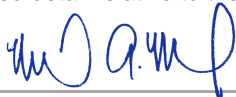
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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

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



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

2024 Bond Program

Grades: 6-8

Middle School North

Year Built: 1965

46201 Fairchild Road, Macomb, MI

Building Size: 78,388

Building Project Work List

Site Size: 24.11

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	26,500	sqft	25.89	686,085	794,229	1,049,431	2
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Envelope

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 Work 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	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, dish washer, & serving line)	1	lpsm	1,230,000.00	1,230,000	1,423,879	1,881,399	2

Interior Work Subtotal: 2,890,937 3,819,853

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	2
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	51,100.00	51,100	59,155	78,162	3

HVAC System

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	3	ea	15,000.00	45,000	52,093	68,832	1

Integrated Automation

upgrade temperature controls	86,640	sqft	6.00	519,840	601,780	795,144	3
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Mechanical Systems Subtotal: 1,225,855 1,619,747

Electrical Systems

Power

panels for new mechanical electrical to support technology	1	allo	25,000.00	25,000	28,941	38,240	3
	46	ea	1,500.00	69,000	79,876	105,542	2

Lighting

upgrade classroom lighting	35,345	sqft	6.50	229,743	265,956	351,413	3
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Electrical Systems Subtotal: 374,772 495,194

Construction Subtotal: 6,166,108 8,147,402

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	78,388	sf	0.65	50,952	58,984	72,343	2
replace fiber to IDFs	2	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

Technology Infrastructure Subtotal: 316,671 388,397

Technology Safety & Security

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 - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School North

Year Built: 1965

46201 Fairchild Road, Macomb, MI

Building Size: 78,388

Building Project Work List

Site Size: 24.11

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / 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
Technology Safety & Security Subtotal:							282,723	346,760	
Technology & Safety Infrastructure Subtotal:							599,394	735,157	
REMODELING SUBTOTAL:							6,765,502	8,882,558	

SITE WORK

Site Paving									
		repave NE parking lot and UG stormwater structure	16,200	sqft	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 Paving Subtotal:							841,640	1,112,075	
Site Improvements									
		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	lpsm	60,000.00	60,000	69,458	91,776	3
		update storage facilities	1	lpsm	18,850.00	18,900	21,879	28,909	3
Site Improvement Subtotal:							145,890	192,767	
SITE WORK 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
INSTRUCTIONAL TECHNOLOGY 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
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	

Notes: Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees	PROJECT TOTAL:	9,468,028	12,290,845
	Construction Contingency:	946,803	
	Permits / General Conditions:	314,760	
	Design Consultants:	804,719	
	C.M. Costs:	756,534	
	BUILDING TOTAL:	12,290,845	

Building Utilization

School Building Name

Middle School North

Project No. [n] 12

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

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

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

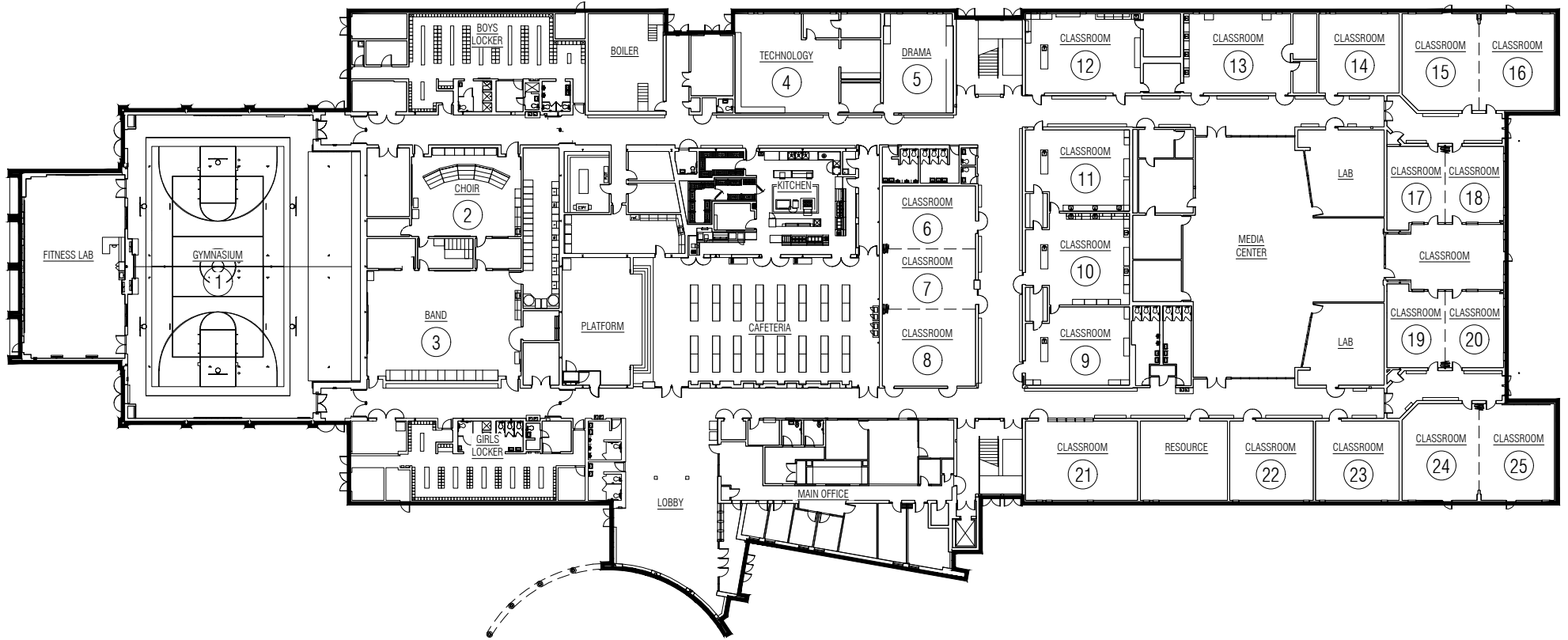
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

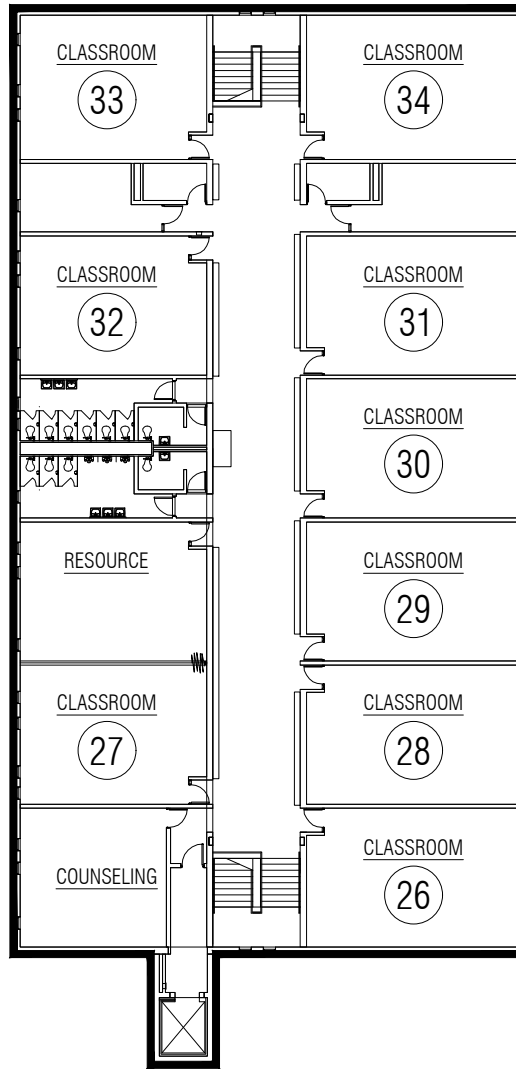
Projected 5-Year Enrollment 540

Utilization Percentage 71%

(Projected 5-Year Enrollment / Total Capacity)




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

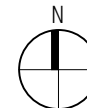




PARTNERS in Architecture, PLC

KEY

-  NEW CONSTRUCTION
-  REMODELED AREA
-  TEACHING STATION



Middle School North Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Middle School South				Project No. [n]	13
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

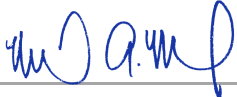
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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

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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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: 6-8

Middle School South

Year Built: 1973

34641 Jefferson Ave, Harrison Twp, MI

Building Size: 91,747

Building Project Work List

Site Size: 24.20

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	79,400	sqft	25.03	1,987,382	2,300,643	3,039,886	2
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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

Exterior Work Subtotal: 3,004,277 3,969,611

Interior Work

replace casework (countertops and hardware)	1	lpsm	35,000.00	35,000	40,517	53,536	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	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	sqft	75.00	75,000	86,822	114,719	3
replace telescoping bleachers	400	seats	200.00	80,000	92,610	122,367	3

Interior Work 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
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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
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Mechanical Systems 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

upgrade building exterior lighting	22	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 Systems Subtotal: 468,197 618,638

Construction Subtotal: 6,452,990 8,526,465

Technology Infrastructure

demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	91,747	sf	0.65	59,636	69,036	84,672	2
replace fiber to IDFs	2	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

Technology Infrastructure Subtotal: 334,595 410,380

Technology Safety & Security

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 - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 6-8

Middle School South

Year Built: 1973

34641 Jefferson Ave, Harrison Twp, MI

Building Size: 91,747

Building Project Work List

Site Size: 24.20

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		install emergency alert system	91,747	sf	0.60	55,048	63,725	78,159	2
		replace PA systems	91,747	sf	0.50	45,874	53,104	65,132	2
Technology Safety & Security Subtotal:							299,734	367,624	
Technology & Safety Infrastructure Subtotal:							634,329	778,005	
REMODELING SUBTOTAL:							7,087,319	9,304,469	

SITE WORK

Site Paving									
		repave south east lot, drive, sidewalks, and UG stormwater structures	144,800	sqft	7.83	1,133,784	1,312,497	1,734,228	3
		repave east lot	33,850	sqft	6.64	224,800	260,234	343,853	3
Site Paving Subtotal:							1,572,731	2,078,081	
Site Improvements									
		replace athletic fields, exterior courts, & furnishings	1	lpsm	238,475.00	238,475	276,065	364,770	2
		replace fences, gates, screen walls, and site furnishings	1	lpsm	22,900.00	22,900	26,510	35,028	3
		upgrade site sign - digital	1	lpsm	60,000.00	60,000	69,458	91,776	3
		update storage facilities	1	lpsm	20,650.00	20,700	23,963	31,663	3
Site Improvement Subtotal:							395,995	523,236	
SITE WORK SUBTOTAL:							1,968,725	2,601,316	

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	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	allo	276,276.00	276,276	319,824	392,264	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
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							1,353,421	1,659,971	

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
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	

Notes: Scope of work is conceptual and will be detailed throughout the design phase Indirect Costs include; contingency, general conditions & professional fees	PROJECT TOTAL:	10,663,396	13,877,203
	Construction Contingency:	1,066,340	
	Permits / General Conditions:	370,555	
	Design Consultants:	907,522	
	C.M. Costs:	869,389	
	BUILDING TOTAL:	13,877,203	

Building Utilization

School Building Name

Middle School South

Project No. [n] 13

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

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

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

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

Total	27		608
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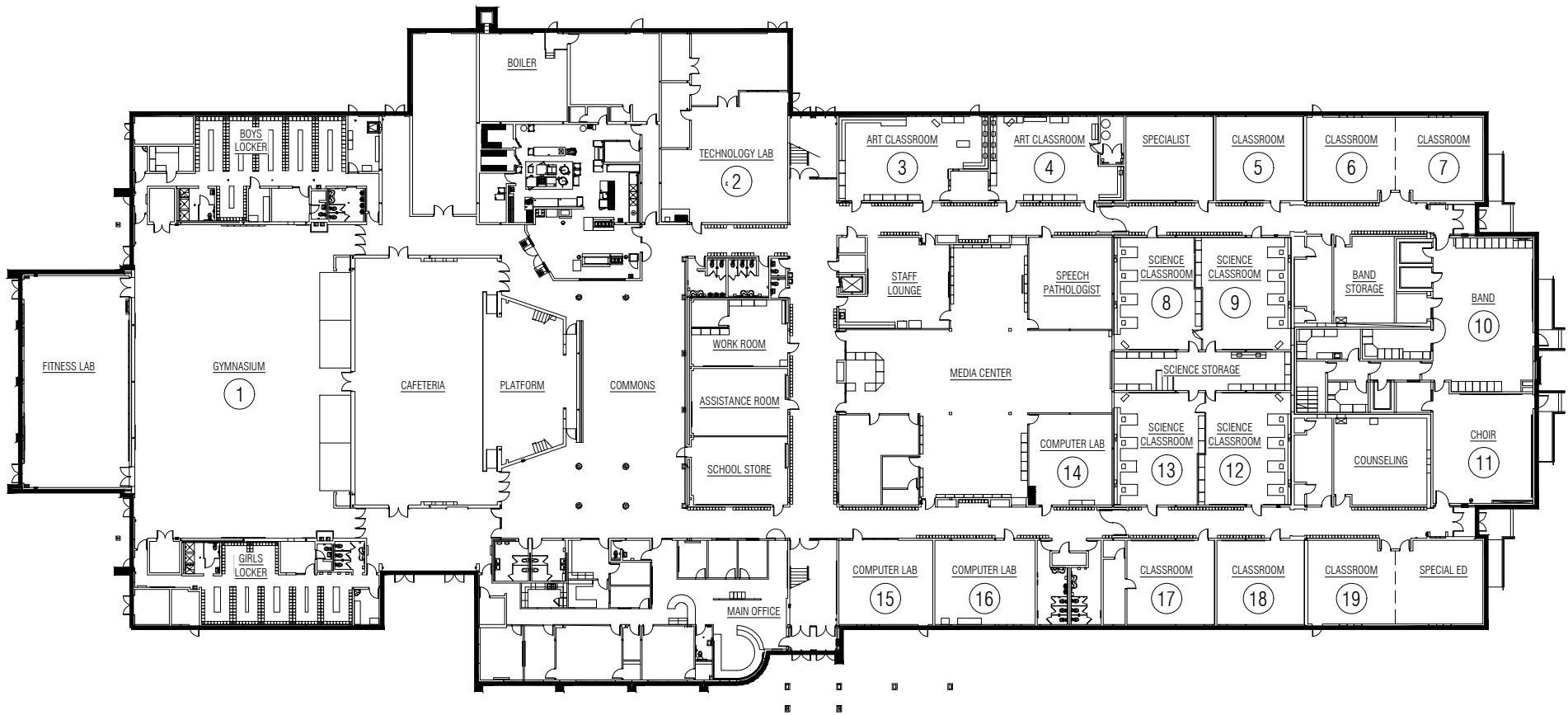
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 480




Utilization Percentage 79%

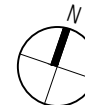
(Projected 5-Year Enrollment / Total Capacity)

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

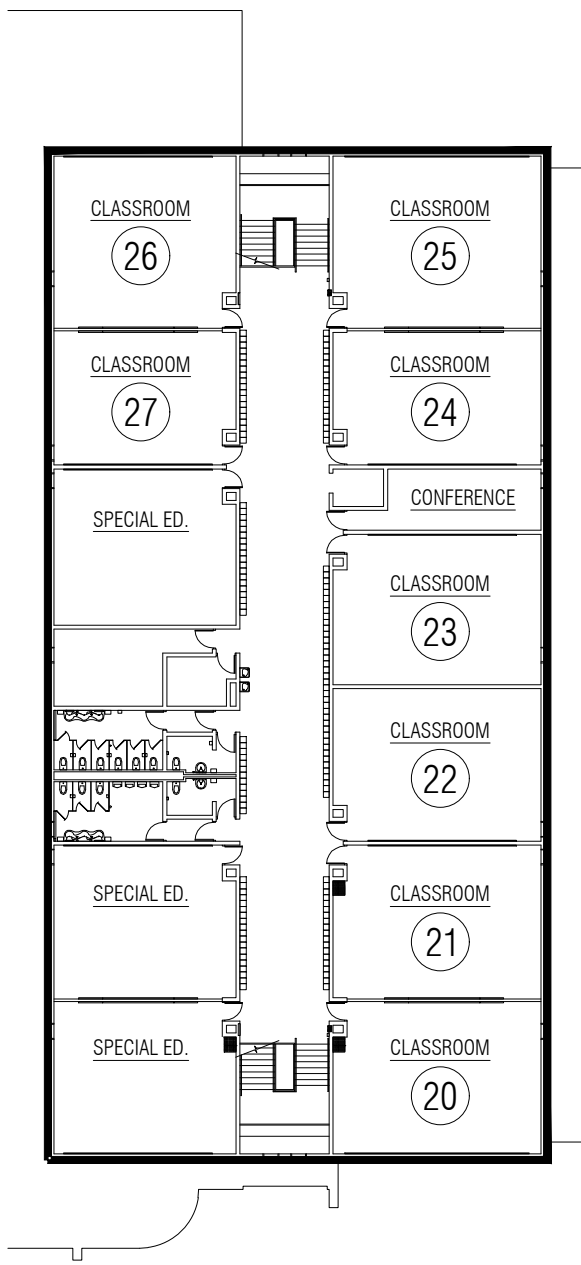


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- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

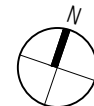


Middle School South First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



Middle School South Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

L'Anse Creuse High School				Project No. [n]	14
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)


<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> 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

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.


11/28/2023 PARTNERS in Architecture, PLC #44723
 Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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: 9-12

L'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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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REMODELING 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 Work Subtotal: 4,432,610 5,856,896

Interior Work

replace casework (countertops and hardware)	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	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	sqft	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

Interior Work 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	1	lpsm	88,000.00	88,000	101,871	134,604	3

HVAC System

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	1	lpsm	308,750.00	308,750	357,417	472,262	1
replace mdf/idf air conditioning	8	ea	15,000.00	120,000	138,915	183,551	1
locker rooms HVAC upgrades (duct and mechanical units)	1	allo	175,000.00	175,000	202,584	267,679	1

Integrated Automation

upgrade temperature control system	213,591	sqft	6.00	1,281,546	1,483,550	1,960,244	2
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Mechanical Systems Subtotal: 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
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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
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Electrical Systems Subtotal: 1,895,140 2,504,086

Construction Subtotal: 17,788,290 23,504,024

Technology Infrastructure

data cabling for renovations	1	ea	10,000.00	10,000	11,576	14,198	1
demo coax/legacy cables	1	lpsm	10,000.00	10,000	11,576	14,198	1
replace cabling infrastructure	213,591	sf	0.65	138,834	160,718	197,120	1
replace fiber to IDFs	9	ea	3,500.00	31,500	36,465	44,725	1
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

L'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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		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
Technology Infrastructure 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	lpsm	20,000.00	20,000	23,153	28,397	1
		install emergency alert system	213,591	sf	0.60	128,155	148,355	181,957	1
		replace PA systems	213,591	sf	0.50	106,796	123,629	151,631	1
Technology Safety & Security Subtotal:							663,261	813,490	
Technology & Safety Infrastructure Subtotal:							1,361,696	1,670,120	
REMODELING SUBTOTAL:							19,149,986	25,174,144	
SITE WORK									
Site Paving									
		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	1	lpsm	29,200.00	29,200	33,803	44,664	3
Site Paving 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 Improvement Subtotal:							7,794,724	10,299,325	
SITE WORK SUBTOTAL:							10,008,682	13,224,672	
INSTRUCTIONAL 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	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	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
		large group sound systems	5	each	30,000.00	150,000	173,644	212,974	1
		stadium sound system	1	lpsm	40,000.00	40,000	46,305	56,793	1
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							2,616,429	3,209,051	
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	85	each	400.00	34,000	39,359	48,274	1
Non-Instructional Equipment Subtotal:							54,987	67,442	
Furniture, Furnishings & Equipment (FFE)									

L'ANSE CREUSE PUBLIC SCHOOLS**PRELIMINARY - FOR DISCUSSION PURPOSE ONLY****BARTON MALOW BUILDERS**

2024 Bond Program

Grades: 9-12

L'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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total 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	

PROJECT TOTAL:							32,516,148	42,540,655	
Construction Contingency:							3,251,615		
Permits / General Conditions:							1,234,153		
Design Consultants:							2,775,144		
C.M. Costs:							2,763,595		
BUILDING TOTAL:							42,540,655		

Notes:*Scope of work is conceptual and will be detailed throughout the design phase**Indirect Costs include; contingency, general conditions & professional fees*

Building Utilization

School Building Name

L'Anse Creuse High School

Project No. [n] 14

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

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

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

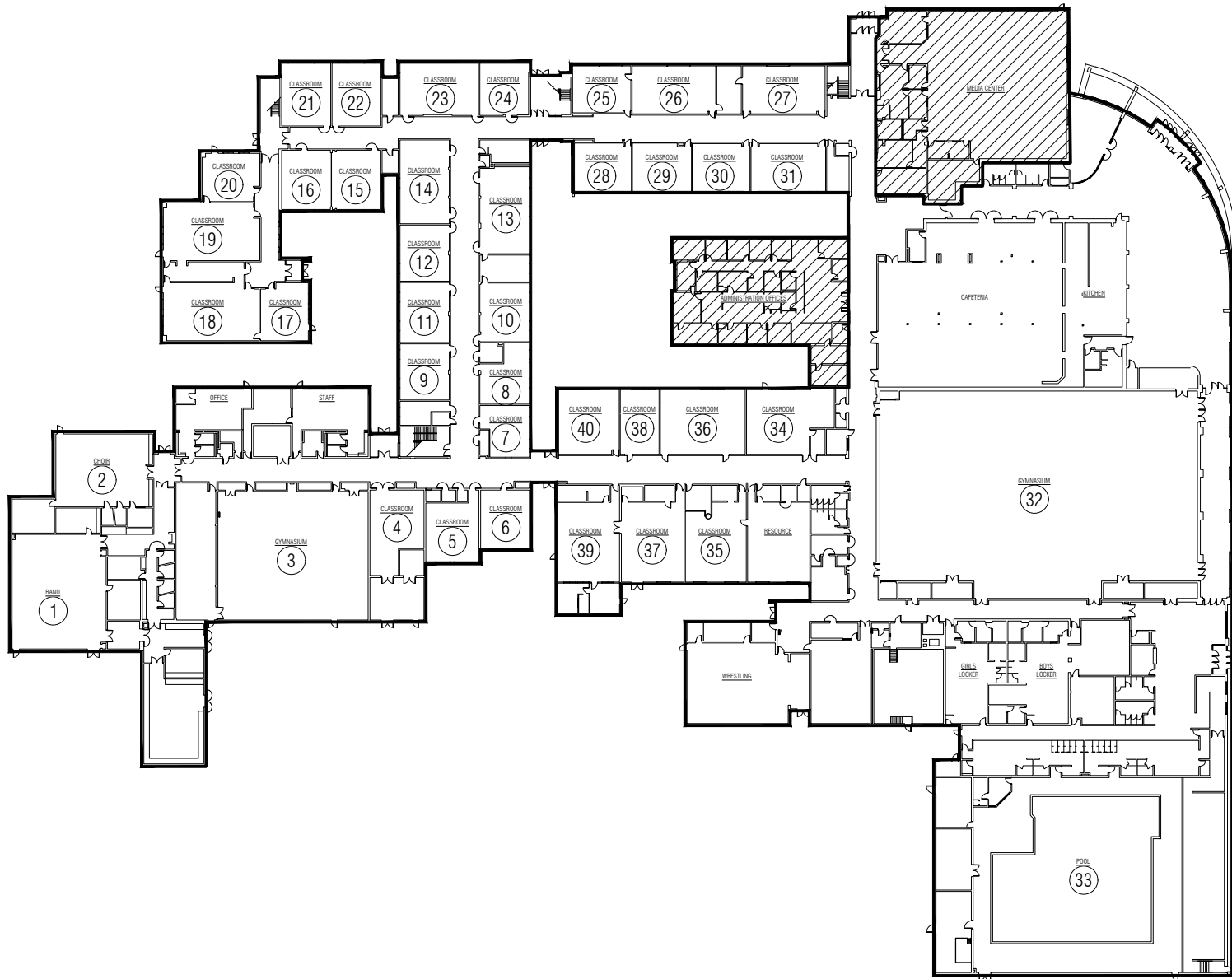
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	0	21.25	0
Total	0		0

Projected 5-Year Enrollment 1,305




Utilization Percentage 85%

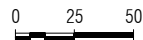
(Projected 5-Year Enrollment / Total Capacity)

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

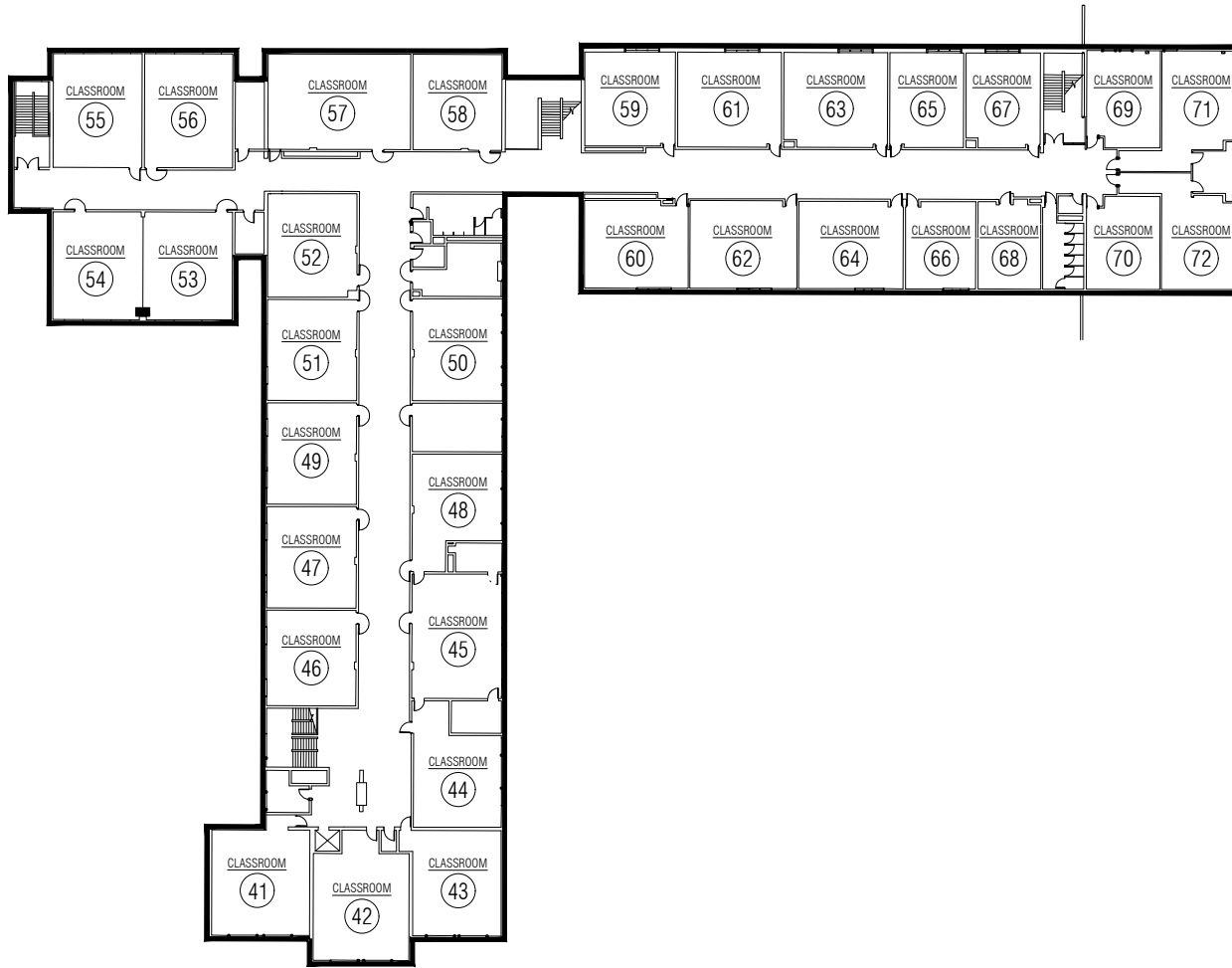


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

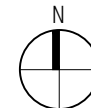
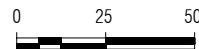


L'Anse Creuse High School First Floor
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



L'Anse Creuse High School Second Floor
 L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

High School North				Project No. [n]	15
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input checked="" type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft
New Addition Square Ft.

n/a
4,500

Cost per Sq Ft
Cost per Sq Ft

* includes escalation
n/a
\$405 *

Does this proposed project address any existing environmental or usability problems? (check all that apply)

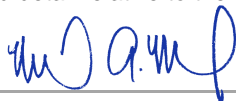
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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

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



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA

Printed Name

mmalone@partnersinarch.com

E-mail Address

586-469-3600

Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

High 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: 11/17/23

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

build music program addition	4,500	sqft	350.00	1,575,000	1,823,259	2,409,109	2
	4,500	sqft		SUBTOTAL:	1,823,259	2,409,109	

REMODELING 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	sqft	8.00	81,600	94,462	124,815	3

Envelope

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	123,897	3
replace select exterior envelop materials	1	lpsm	31,500.00	31,500	36,465	48,182	2
reroute roof overflow drainage	1	lpsm	45,000.00	45,000	52,093	68,832	2
replace EIFS with metal panel	3,300	sqft	70.00	231,000	267,411	353,336	2
replace select exterior doors	84	ea	5,500.00	462,000	534,823	706,672	1

Exterior Work Subtotal: 6,531,893 8,630,721

Interior Work

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	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	340,000.00	340,000	393,593	520,062	2
improve arts program (art room renovations)	7,000	sqft	125.00	875,000	1,012,922	1,338,394	2
renovate/relocate media center/commons/main office	11,050	sqft	250.00	2,762,500	3,197,939	4,225,501	3
remodeling for addition (connection allowance)	4,500	sqft	25.00	112,500	130,233	172,079	2

Interior Work Subtotal: 6,269,176 8,283,588

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	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, & piping	1	lpsm	1,735,576.97	1,735,577	2,009,147	2,654,726	2
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

upgrade temperature controls	238,187	sqft	6.00	1,429,122	1,654,387	2,185,975	2
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Mechanical Systems Subtotal: 5,122,733 6,768,769

Electrical Systems

Power

electrical to support technology	79	ea	1,500.00	118,500	137,179	181,257	1
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Lighting

upgrade building exterior lighting	51	ea	850.00	43,350	50,183	66,308	2
upgrade classroom lighting	92,240	sqft	6.50	599,560	694,066	917,083	2

Electrical Systems Subtotal: 881,427 1,164,647

Construction Subtotal: 18,805,229 24,847,725

Technology Infrastructure

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

2024 Bond Program

Grades: 9-12

High 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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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		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
Technology Infrastructure Subtotal:							719,836	882,879	

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	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	sf	0.50	119,094	137,866	169,092	1
Technology Safety & Security Subtotal:							694,582	851,904	
Technology & Safety Infrastructure Subtotal:							1,414,418	1,734,783	
REMODELING SUBTOTAL:							20,219,647	26,582,509	

SITE WORK

Site 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	sqft	7.14	1,977,700	2,289,435	3,025,076	3
Site Paving Subtotal:							3,363,364	4,444,080	

Site 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 Improvement Subtotal:							8,073,017	10,667,039	
SITE WORK SUBTOTAL:							11,436,381	15,111,119	

INSTRUCTIONAL TECHNOLOGY

Computers 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

Audiovisual

		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	each	35,000.00	70,000	81,034	99,388	2
INSTRUCTIONAL TECHNOLOGY SUBTOTAL:							3,084,953	3,783,694	

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

		purchase plotters	1	ea	3,500.00	3,500	4,052	4,969	1
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L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

High 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: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / 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
Non-Instructional Equipment 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, & E SUBTOTAL:							916,083	1,147,466	
PROJECT TOTAL:							37,480,323	49,033,897	
Construction Contingency:							3,748,032		
Permits / General Conditions:							1,421,940		
Design Consultants:							3,198,772		
C.M. Costs:							3,184,830		
BUILDING TOTAL:							49,033,897		

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Building Utilization

School Building Name

High School North

Project No. [n] 15

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

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

Existing	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	81	21.25	1,721
Subtotal	81		1,721
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	1	21.25	21
Subtotal	1		21
Total	82		1,743

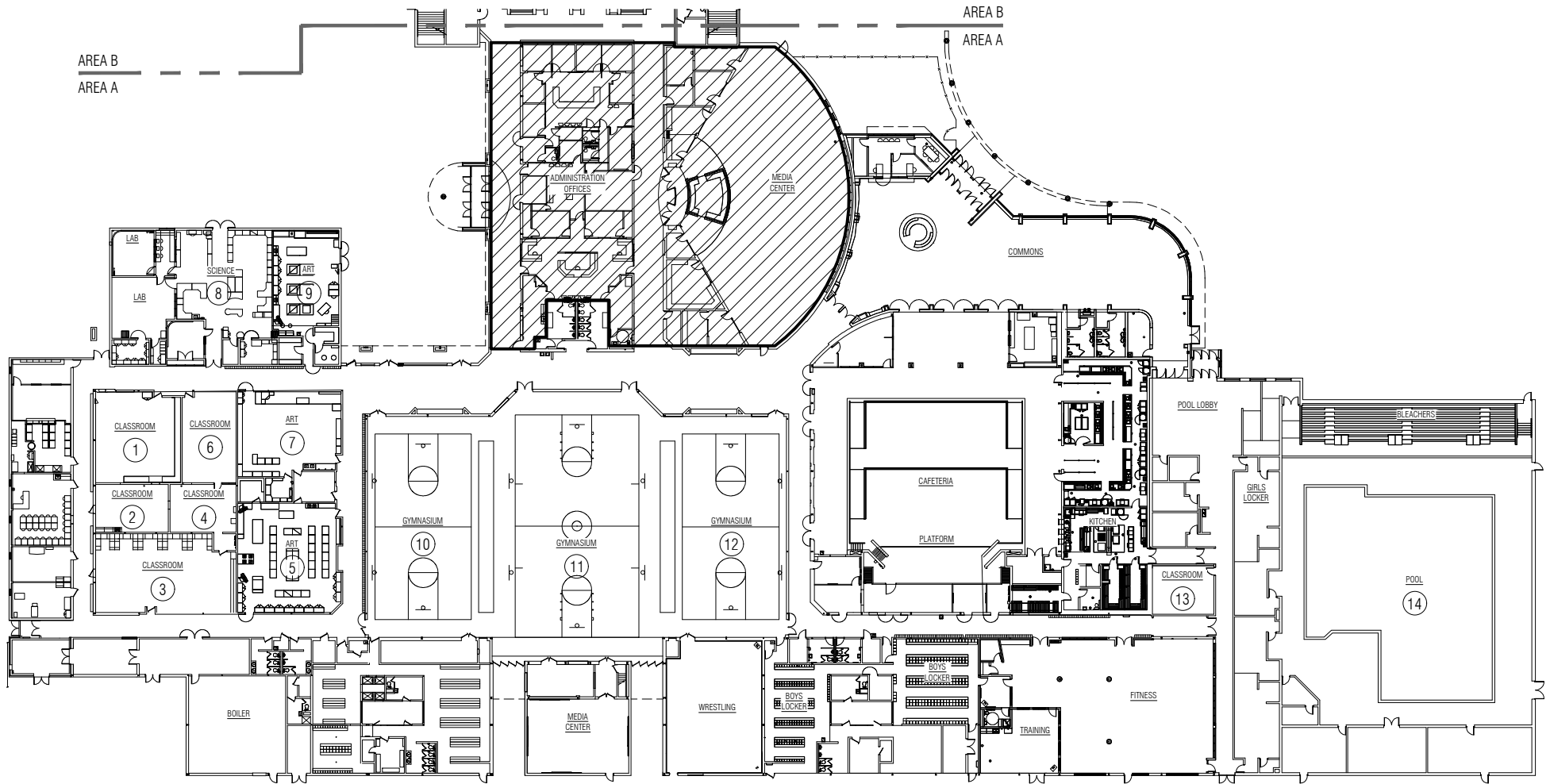
Facility to be Closed	List # of Teaching Stations	Capacity Factor	Capacity
(K-2) Lower Elementary	0	20	0
(3-5) Upper Elementary	0	25	0
(6-8) Junior High	0	22.5	0
(9-12) High School	1	21.25	21
Total	1		21

Projected 5-Year Enrollment 1,400




Utilization Percentage 80%

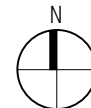
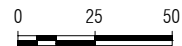
(Projected 5-Year Enrollment / Total Capacity)

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

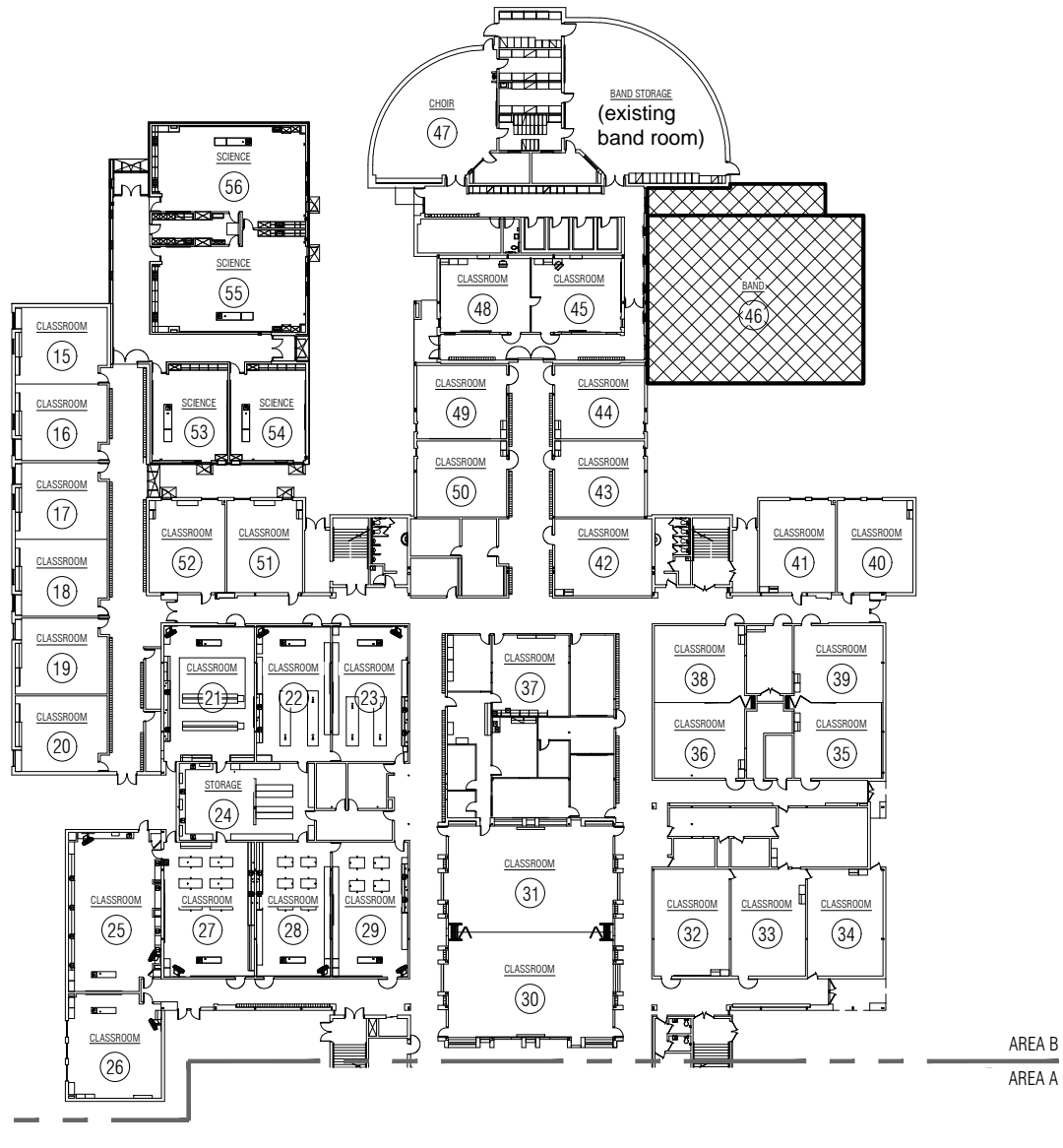


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

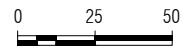


High School North First Floor - Area A
L'ANSE CREUSE PUBLIC SCHOOLS

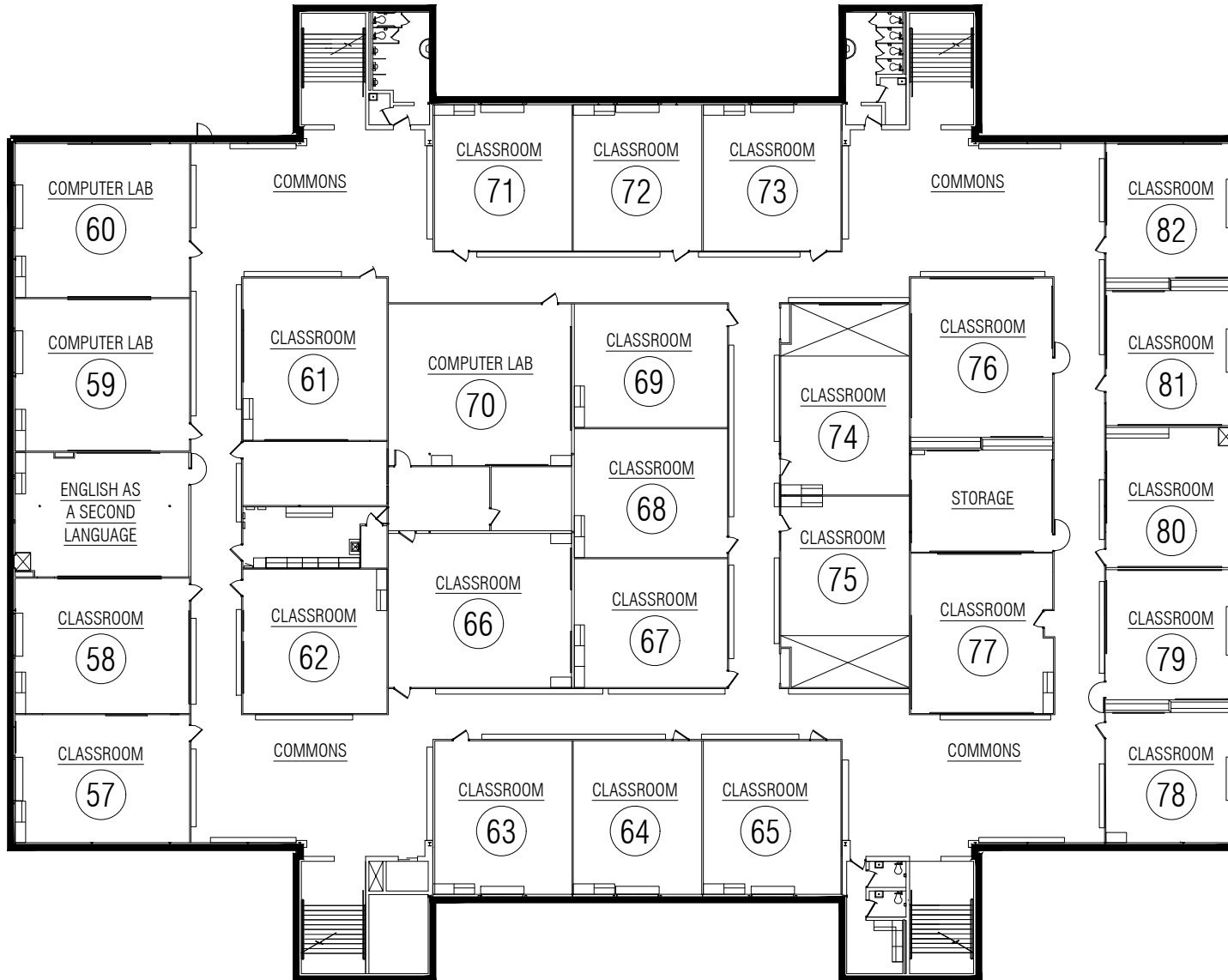


PARTNERS in Architecture, PLC




- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION

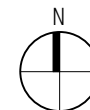
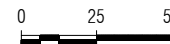


High School North First Floor - Area B
L'ANSE CREUSE PUBLIC SCHOOLS



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  TEACHING STATION



High School North Second Floor
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

Burdi Early Childhood Center				Project No. [n]	16
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)

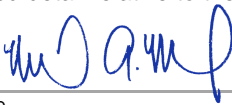
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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

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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.com 586-469-3600
 Printed Name E-mail Address Phone Number

2024 Bond Program
Burdi Early Childhood Center
 29851 24-Mile Road, Chesterfield, MI
Building Project Work List

Grades: preK
 Year Built: 1995
 Building Size: 17,102
 Site Size: inc w/ Higgins 1.158
 Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 1	1	lpsm	7,000.00	7,000	8,103	10,707	2
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Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelope materials	1	lpsm	25,000.00	25,000	28,941	38,240	2
reroute roof overflow drainage	1	lpsm	41,000.00	41,000	47,463	62,713	2
replace select exterior doors	18	lpsm	5,500.00	99,000	114,605	151,430	1

Exterior Work Subtotal: 224,579 296,741

Interior Work

replace casework (countertops and hardware)	1	lpsm	80,000.00	80,000	92,610	122,367	2
replace interior openings	1	alfo	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	lpsm	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	1	lpsm	10,000.00	10,000	11,576	15,296	2
upgrade space for special needs program	1,000	sqft	75.00	75,000	86,822	114,719	2
renovate early childhood program space	1	lpsm	905,000.00	905,000	1,047,651	1,384,282	2

Interior Work Subtotal: 1,435,633 1,896,930

Mechanical Systems

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
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Mechanical Systems Subtotal: 117,274 154,957

Electrical Systems

Power

electrical to support technology	14	ea	1,500.00	21,000	24,310	32,121	2
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Lighting

upgrade building exterior lighting	18	ea	850.00	15,300	17,712	23,403	2
upgrade classroom lighting	11,455	sqft	6.50	74,458	86,194	113,890	2

Electrical Systems Subtotal: 128,216 169,414

Construction Subtotal: 1,905,702 2,518,042

Technology Infrastructure

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 cabling infrastructure	17,102	sf	0.65	11,116	12,869	15,783	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	5	ea	4,000.00	20,000	23,153	28,397	1
replace rack UPS	1	ea	1,200.00	1,200	1,389	1,704	1
update wireless infrastructure	14	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

Technology Infrastructure Subtotal: 119,370 146,407

Technology Safety & Security

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	1	lpsm	20,000.00	20,000	23,153	28,397	1
install emergency alert system	17,102	sf	0.60	10,261	11,879	14,569	2
replace PA systems	17,102	sf	0.50	8,551	9,899	12,141	2

Technology Safety & Security Subtotal: 143,907 176,502

Technology & Safety Infrastructure Subtotal: 263,277 322,909

REMODELING SUBTOTAL: 2,168,979 2,840,951

SITE WORK

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK

Burdi Early Childhood Center

Year Built: 1995

29851 24-Mile Road, Chesterfield, MI

Building Size: 17,102

Building Project Work List

Site Size: inc w/ Higgins

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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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 Improvement Subtotal: 447,654 591,494

SITE WORK 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

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	each	30,000.00	30,000	34,729	42,595	2

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 308,449 378,313

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	15	each	400.00	6,000	6,946	8,519	1

Non-Instructional Equipment Subtotal: 22,574 27,687

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	75,000.00	75,000	86,822	106,487	2
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F, F, & E Subtotal: 86,822 106,487

F, F, & E SUBTOTAL: 109,396 134,174

PROJECT TOTAL: 3,034,477 3,944,931

Construction Contingency: 303,448

Permits / General Conditions: 103,548

Design Consultants: 258,110

C.M. Costs: 245,348

BUILDING TOTAL: 3,944,931

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Pankow Career Tech Center & Armstrong Performing Arts Center				Project No. [n]	17
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input checked="" type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft
 New Addition Square Ft.

n/a
 5,000

Cost per Sq Ft
 Cost per Sq Ft

* includes escalation
 n/a
 \$405 *

Does this proposed project address any existing environmental or usability problems? (check all that apply)

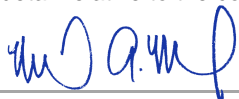
<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

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

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



Signature

11/28/2023

Date

PARTNERS in Architecture, PLC #44723

Firm Name and License Number

Michael A. Malone, AIA
 Printed Name

mmalone@partnersinarch.com
 E-mail Address

586-469-3600
 Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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NEW 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	

REMODELING 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	1	lpsm	15,000.00	15,000	17,364	22,944	3
replace EIFS with metal panels	2,960	sqft	70.00	207,200	239,860	316,932	3
replace select exterior doors	24	ea	5,500.00	132,000	152,807	201,906	1

Exterior Work Subtotal: 1,819,384 2,403,988

Interior Work

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)	1	lpsm	25,000.00	25,000	28,941	38,240	2
remodeling for addition (connection allowance)	5,000	sqft	25.00	125,000	144,703	191,199	2

Interior Work Subtotal: 2,005,759 2,650,249

Mechanical Systems

Plumbing Work

replace water heater, pump, water bottle filler, grease trap, & valves	1	lpsm	119,500.00	119,500	138,336	182,786	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

upgrade temperature control system	140,891	sqft	6.00	845,346	978,594	1,293,035	3
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Mechanical Systems Subtotal: 2,099,858 2,774,584

Electrical Systems

Power

upgrade electrical systems - Priority 1	24,950	sqft	7.00	174,650	202,179	267,143	1
emergency generator for JAPAC	1	lpsm	75,000.00	75,000	86,822	114,719	1
electrical to support technology	42	ea	1,500.00	63,000	72,930	96,364	2

Lighting

upgrade building exterior lighting	62	ea	850.00	52,700	61,007	80,610	3
upgrade classroom lighting	44,616	sqft	6.50	290,004	335,716	443,588	3
upgrade theater lighting	1	lpsm	350,000.00	350,000	405,169	535,358	2

Electronic Safety & Security

upgrade fire alarm panel	1	lpsm	15,000.00	15,000	17,364	22,944	3
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Electrical Systems Subtotal: 1,181,187 1,560,726

Construction Subtotal: 7,106,188 9,389,548

Technology Infrastructure

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 cabling infrastructure	140,891	sf	0.65	91,579	106,014	130,027	2
replace fiber to IDFs	7	ea	3,500.00	24,500	28,362	34,786	2
replace network switches - core/aggregate	1	ea	9,000.00	9,000	10,419	12,778	1
replace network switches - edge	39	ea	4,000.00	156,000	180,590	221,493	1
network switches - multigig	1	ea	10,000.00	10,000	11,576	14,198	1

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
		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
Technology Infrastructure Subtotal:							489,072	599,847	

Technology Safety & Security

		upgrade security camera system	95	ea	1,500.00	142,500	164,962	202,325	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	140,891	sf	0.60	84,535	97,859	120,025	2
		replace PA systems	140,891	sf	0.50	70,446	81,549	100,020	2

Technology Safety & Security Subtotal: 431,771 529,567

Technology & Safety Infrastructure Subtotal: 920,844 1,129,415

REMODELING SUBTOTAL: 8,027,031 10,518,962

SITE 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	sqft	7.00	960,400	1,111,783	1,469,021	3

Site Paving 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 Improvement Subtotal: 317,189 419,108

SITE WORK SUBTOTAL: 3,401,565 4,494,556

INSTRUCTIONAL TECHNOLOGY

Computers and Mobile Devices

		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	each	350.00	33,110	38,329	47,010	1
		mobile device storing/charging (classroom)	39	each	400.00	15,600	18,059	22,149	1
		mobile device storing/charging (carts)	2	each	1,500.00	3,000	3,473	4,259	1
		refresh devices - series 2	1	allo	97,141.00	97,141	112,453	137,923	2

Audiovisual

		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

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 997,064 1,222,898

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	51	each	400.00	20,400	23,616	28,964	1

Non-Instructional Equipment Subtotal: 39,243 48,132

Furniture, Furnishings & Equipment (FFE)

		purchase furniture	1	lpsm	250,000.00	250,000	289,406	354,957	3
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F,F,&E Subtotal: 289,406 354,957

F, F, & E SUBTOTAL: 328,650 403,089

PROJECT TOTAL: 14,780,153 19,316,294

Construction Contingency: 1,478,015

Permits / General Conditions: 551,478

Notes:

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 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	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Design Consultants: 1,260,724
 C.M. Costs: 1,245,923
BUILDING TOTAL: 19,316,294

Project Sheet

Pellerin Center (Riverside Academy for alternative education)	Project No. [n]	18
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Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input checked="" type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft
 New Addition Square Ft

n/a
 2,500

Cost per Sq Ft
 Cost per Sq Ft

* includes escalation
 n/a
 \$405 *

Does this proposed project address any existing environmental or usability problems? (check all that apply)

<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> Other - please list:	1.	2.	3.	

Estimated Cost of Proposed Construction Project

Column 1	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

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

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

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pellerin Center

Year Built: 2009

24001 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 37,897

Building Project Work List

Site Size: 3.15

1.158

Date: 11/17/23

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

build multi-purpose addition	2,500	sqft	350.00	875,000	1,012,922	1,338,394	1
	2,500	sqft		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
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Envelope

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior envelop materials	1	lpsm	71,500.00	71,500	82,770	109,366	3
reroute roof overflow drainage	1	lpsm	17,500.00	17,500	20,258	26,768	3

Exterior Work 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	336,510	3
replace carpet (classrooms, media center, offices)	18,000	lpsm	9.00	162,000	187,535	247,794	3
replace VCT flooring (classrooms and workrooms)	1,000	sqft	8.00	8,000	9,261	12,237	3
replace architectural trim out/specialties	1	lpsm	15,000.00	15,000	17,364	22,944	3
remodeling for addition (connection allowance)	2,500	sqft	25.00	62,500	72,352	95,600	1

Interior Work Subtotal: 552,766 730,381

Mechanical Systems

Plumbing Work

replace water heater	1	lpsm	20,000.00	20,000	23,153	30,592	3
select replace toilet room sink, toilet, & urinal bodies	1	lpsm	29,160.00	29,160	33,756	44,603	3

HVAC System

replace mdf/idf air conditioning	2	ea	15,000.00	30,000	34,729	45,888	1
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Integrated Automation

upgrade temperature control system	34,970	sqft	6.00	209,800	242,870	320,909	3
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Mechanical Systems Subtotal: 334,507 441,991

Electrical Systems

Power

electrical to support technology	21	ea	1,500.00	31,500	36,465	48,182	2
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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 Systems Subtotal: 171,444 226,533

Construction Subtotal: 1,188,950 1,570,984

Technology Infrastructure

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	1,200.00	32,400	37,507	46,002	2
upgrade phone system	1	lpsm	25,000.00	25,000	28,941	35,496	1

Technology Infrastructure Subtotal: 162,415 199,202

Technology Safety & Security

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	sf	0.60	22,700	26,278	32,230	2
replace PA systems	37,897	sf	0.50	18,900	21,879	26,835	2

Technology Safety & Security Subtotal: 239,744 294,046

Technology & Safety Infrastructure Subtotal: 402,159 493,248

REMODELING SUBTOTAL: 1,591,109 2,064,232

SITE WORK

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 9-12

Pellerin Center

Year Built: 2009

24001 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 37,897

Building Project Work List

Site Size: 3.15

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
Site Paving									
		replace parking lot, replace sidewalks	73,000	sqft	7.40	540,200	625,349	826,286	3
Site Paving Subtotal:							625,349	826,286	
Site Improvements									
		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 Improvement Subtotal:							168,434	222,556	
SITE WORK 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

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

INSTRUCTIONAL TECHNOLOGY SUBTOTAL: 716,917 879,299

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	30	each	400.00	12,000	13,892	17,038	1

Non-Instructional Equipment Subtotal: 29,519 36,206

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	50,000.00	50,000	57,881	70,991	3
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F,F,&E Subtotal: 57,881 70,991

F, F, & E SUBTOTAL: 87,401 107,197

PROJECT TOTAL: 4,202,132 5,437,964

Construction Contingency: 420,213

Permits / General Conditions: 131,809

Design Consultants: 356,562

C.M. Costs: 327,247

BUILDING TOTAL: 5,437,964

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Wheeler Community Center & Administrative Offices				Project No. [n]	19
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)


<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> 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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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: n/a

n/a

Wheeler Community Center

Year Built: 2004

24076 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 48900

n/a

Building Project Work List

Site Size:

1.158

Date: 11/17/23

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

Exterior Work

Roofing

roof work - priority 2	1	lpsm	900.00	900	1,042	1,377	3
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Envelope

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

Exterior Work Subtotal: 95,504 126,191

Interior 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

Interior Work Subtotal: 414,430 547,594

Mechanical Systems

Plumbing Work

replace water heater, valves, and new water bottle filling 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

HVAC 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

Integrated Automation

upgrade temperature controls	48,900	ea	1.75	85,575	99,064	130,895	3
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Mechanical Systems Subtotal: 465,452 615,011

Electrical Systems

Power

electrical to support technology	9	ea	1,500.00	13,500	15,628	20,650	2
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Lighting

upgrade building exterior lighting	36	ea	850.00	30,600	35,423	46,806	3
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Electrical Systems Subtotal: 51,051 67,455

Construction Subtotal: 1,026,437 1,356,252

Technology Infrastructure

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 cabling infrastructure	48,900	sf	0.65	31,785	36,795	45,129	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	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

Technology Infrastructure Subtotal: 242,737 297,716

Technology Safety & Security

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	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	48,900	sf	0.60	29,340	33,965	41,658	2
replace PA systems	48,900	sf	0.50	24,450	28,304	34,715	2

Technology Safety & Security Subtotal: 236,491 290,056

Technology & Safety Infrastructure Subtotal: 479,228 587,773

REMODELING SUBTOTAL: 1,505,665 1,944,025

SITE WORK

Site Paving

repave lot & sidewalks, install UG stormwater structure	45,500	sqft	12.64	575,120	665,773	879,700	3
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Site Paving Subtotal: 665,773 879,700

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: n/a

n/a

Wheeler Community Center

Year Built: 2004

24076 F.V.Pankow Blvd, Clinton Twp, MI

Building Size: 48900

n/a

Building Project Work List

Site Size:

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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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 Improvement Subtotal:							127,339	168,255	
SITE WORK 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		
INSTRUCTIONAL TECHNOLOGY 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	18	each	400.00	7,200	8,335	10,223	1		
Non-Instructional Equipment Subtotal:							23,963	29,390	
F, F, & E SUBTOTAL:							23,963	29,390	

PROJECT TOTAL:							2,846,936	3,664,296	
Construction Contingency:							284,694		
Permits / General Conditions:							80,060		
Design Consultants:							240,877		
C.M. Costs:							211,730		
BUILDING TOTAL:							3,664,296		

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

Brender Support Services Center				Project No. [n]	20
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input checked="" type="checkbox"/> Buses	<input checked="" type="checkbox"/> Buses	<input checked="" type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	n/a	Cost per Sq Ft	n/a
New 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)


<input type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input checked="" type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements	
<input type="checkbox"/> 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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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: 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

Site Size: inc w/ Pankow

1.158

Date: 11/17/23

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

upgrade select exterior glazing	1	lpsm	22,000.00	22,000	25,468	33,651	3
replace select exterior doors	9	ea	5,500.00	49,500	57,302	75,715	1

Exterior Work Subtotal: 899,880 1,189,029

Interior Work

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	sqft	275.00	110,000	127,339	168,255	3
replace carpet (offices)	4,500	lpsm	9.00	40,500	46,884	61,949	3
replace VCT flooring (classrooms and workrooms)	1,000	sqft	8.00	8,000	9,261	12,237	3
replace ceilings	75	sqft	10.00	800	926	1,224	3
replace architectural trim out/specialties	1	lpsm	12,000.00	12,000	13,892	18,355	3
renovate transportation office and lounge	2,575	sqft	50.00	128,800	149,102	197,012	3

Interior Work 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
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HVAC System

replace select roof top and chiller equipment	1	lpsm	397,000.00	397,000	459,577	607,248	3
replace mdf/idf air conditioning	1	ea	30,000.00	30,000	34,729	45,888	1

Integrated Automation

upgrade temperature control system	31,438	sqft	6.00	188,628	218,360	288,524	3
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Mechanical Systems Subtotal: 778,651 1,028,847

Electrical Systems

Power

electrical to support technology	3	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

Lighting

upgrade building exterior lighting	24	ea	850.00	20,400	23,616	31,204	3
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Electrical Systems Subtotal: 63,554 83,975

Construction 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	lpsm	10,000.00	10,000	11,576	14,198	2
replace cabling infrastructure	31,438	sf	0.65	20,435	23,656	29,014	2
replace fiber to IDFs	3	ea	3,500.00	10,500	12,155	14,908	2
replace network switches - core/aggregate	2	ea	20,000.00	40,000	46,305	56,793	1
replace network switches - edge	10	ea	4,000.00	40,000	46,305	56,793	1
update wireless infrastructure	21	ea	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	lpsm	125,000.00	125,000	144,703	177,478	1

Technology Infrastructure Subtotal: 1,309,430 1,606,016

Technology Safety & Security

upgrade security camera system	35	ea	1,500.00	52,500	60,775	74,541	2
video surveillance servers	4	ea	40,000.00	160,000	185,220	227,172	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	31,438	sf	0.60	18,863	21,836	26,782	2
replace PA systems	31,438	sf	0.50	15,719	18,197	22,318	2

Technology Safety & Security Subtotal: 373,429 458,010

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: 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

Site Size: inc w/ Pankow

1.158

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
						Technology & Safety Infrastructure Subtotal:	1,682,859	2,064,026	
						REMODELING SUBTOTAL:	4,065,225	5,211,895	

SITE WORK

Site Improvements

replace fences, gates, screen walls, and site furnishings	1	lpsm	18,140.00	18,140	20,999	27,747	3	
update storage facilities	1	lpsm	61,400.00	61,400	71,078	93,917	3	
						Site Improvement Subtotal:	92,077	121,664
						SITE WORK SUBTOTAL:	92,077	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	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	2	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	1	allo	5,000.00	5,000	5,788	7,099	2	
						Non-Instructional Equipment Subtotal:	66,332	81,356
						F, F, & E SUBTOTAL:	66,332	81,356

BUSES

purchase buses	9	each	109,880.98	988,929	988,929	988,929	1		
purchase buses	18	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	BUSES SUBTOTAL:	6,500,001	6,500,001

						PROJECT TOTAL:	10,723,635	11,914,915
						Construction Contingency:	422,363	
						Permits / General Conditions:	108,876	
						Design Consultants:	356,616	
						C.M. Costs:	303,426	
						BUILDING TOTAL:	11,914,915	

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

Project Sheet

new Early Childhood Center				Project No. [n]	21
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input checked="" type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input checked="" type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input checked="" type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft
New Addition Square Ft.

41,500
n/a

Cost per Sq Ft
Cost per Sq Ft

* includes escalation

\$368

n/a

Does this proposed project address any existing environmental or usability problems? (check all that apply)

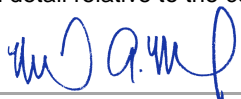
<input checked="" type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

Estimated Cost of Proposed Construction Project

Column 1	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 this facility and the details of the proposed project(s) described above and the attached detail relative to the construction project(s) are true and correct to the best of my knowledge and belief.


 Signature _____ Date 11/28/2023 Firm Name and License Number PARTNERS in Architecture, PLC #44723

Michael A. Malone, AIA Printed Name
 mmalone@partnersinarch.com E-mail Address
 586-469-3600 Phone Number

L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK

New Early Childhood Center

Year Built: TBD

Future Pankow Blvd Address

Building Size: 44,000

Building Project Work List

Site Size:

1.050

Date: 11/17/23

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

build new early childhood center	41,500	sqft	350.00	14,525,000	15,251,250	19,507,946	1
	41,500	sqft		SUBTOTAL:	15,251,250	19,507,946	

REMODELING WORK

Technology Infrastructure

install cabling infrastructure including fiber to the building	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
				Technology Infrastructure Subtotal:	159,810	190,661	

Technology Safety & Security

install security camera system	20	ea	1,500.00	30,000	31,500	37,581	1
install entrance intercoms	3	ea	3,500.00	10,500	11,025	13,153	1
install access control system	10	ea	4,500.00	45,000	47,250	56,372	1
install access control headend	1	lpsm	20,000.00	20,000	21,000	25,054	1
install emergency alert system	41,500	sf	0.80	33,200	34,860	41,590	1
install PA systems	41,500	sf	0.80	33,200	34,860	41,590	1
				Technology Safety & Security Subtotal:	180,495	215,340	
				Technology & Safety Infrastructure Subtotal:	340,305	406,001	
				REMODELING SUBTOTAL:	340,305	406,001	

SITE 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	sqft	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 Paving Subtotal:	4,545,291	5,813,903	

Site Improvements

add playground equipment	1	lpsm	250,000.00	250,000	262,500	335,765	1
add playground soft surfaces	2,868	sqft	25.00	71,700	75,285	96,297	1
				Site Improvement Subtotal:	337,785	432,062	
				SITE WORK SUBTOTAL:	4,883,076	6,245,965	

INSTRUCTIONAL 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	5,000.00	5,000	5,250	6,264	1
large group sound systems	1	each	30,000.00	30,000	31,500	37,581	1
				INSTRUCTIONAL TECHNOLOGY SUBTOTAL:	297,150	354,515	

FURNITURE, FURNISHINGS AND EQUIPMENT

Non-Instructional Equipment

purchase copiers	1	ea	25,000.00	25,000	26,250	31,318	1
purchase plotters	1	ea	3,500.00	3,500	3,675	4,384	1
purchase radio / walkie-talkies	30	each	400.00	12,000	12,600	15,032	1
				Non-Instructional Equipment Subtotal:	42,525	50,734	

Furniture, Furnishings & Equipment (FFE)

purchase furniture	1	lpsm	300,000.00	300,000	315,000	375,811	1
				F,F,&E Subtotal:	315,000	375,811	
				F, F, & E SUBTOTAL:	357,525	426,545	

SITE ACQUISITION

purchase parcels of land along south property line	2	each	70,000.00	140,000	147,000	147,000	1
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L'ANSE CREUSE PUBLIC SCHOOLS

PRELIMINARY - FOR DISCUSSION PURPOSE ONLY

BARTON MALOW BUILDERS

2024 Bond Program

Grades: preK

New Early Childhood Center

Year Built: TBD

Future Pankow Blvd Address

Building Size: 44,000

Building Project Work List

Site Size:

1.050

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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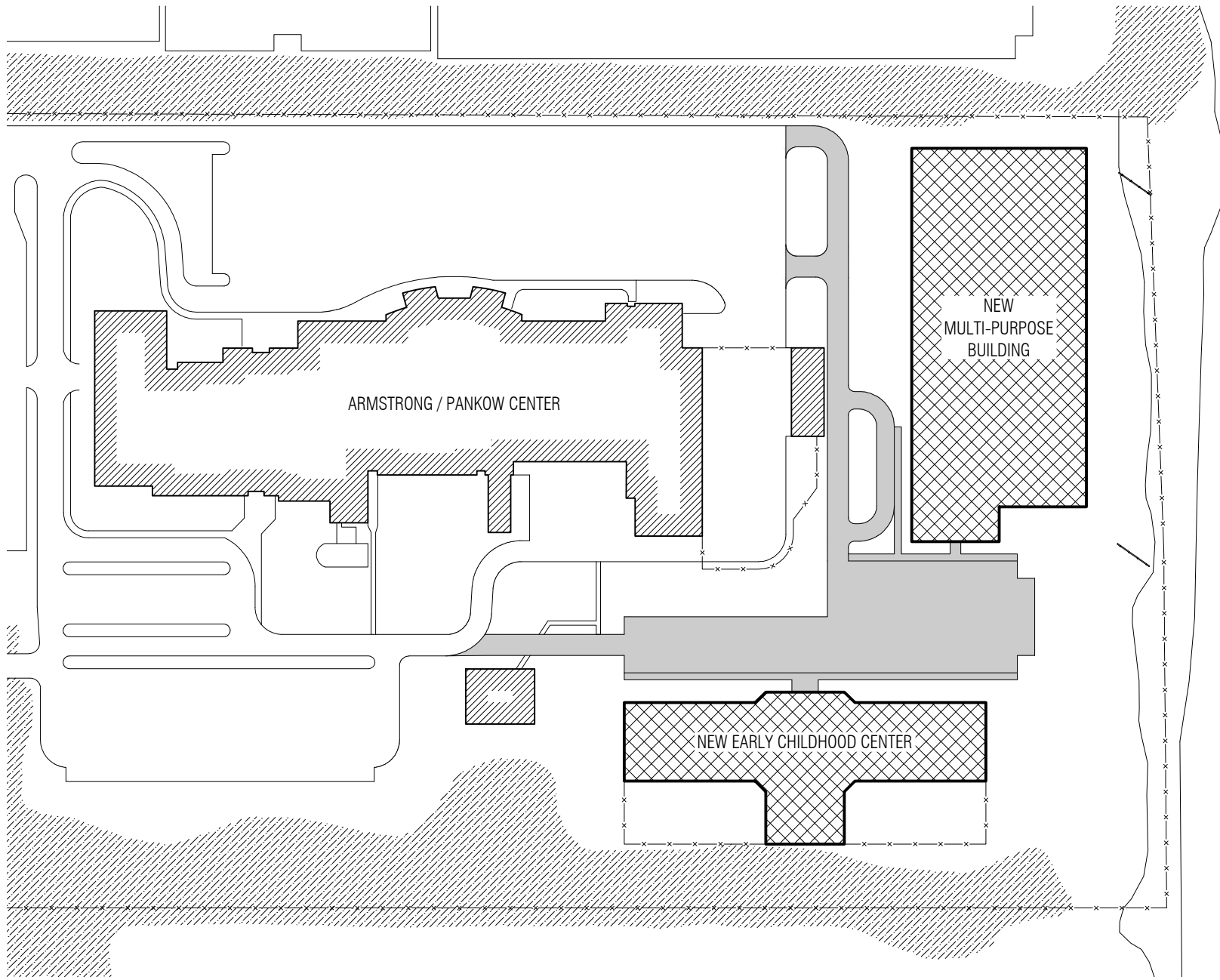
SITE ACQUISITION SUBTOTAL:	147,000	147,000
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	PROJECT TOTAL:	21,276,306	27,087,973
	Construction Contingency:	1,479,051	
	Permits / General Conditions:	754,031	
	Design Consultants:	1,752,179	
	C.M. Costs:	1,826,406	
	BUILDING TOTAL:	27,087,973	




Notes:

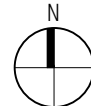
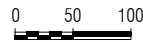
Scope of work is conceptual and will be detailed throughout the design phase

Indirect Costs include; contingency, general conditions & professional fees



PARTNERS in Architecture, PLC

- KEY**
-  NEW CONSTRUCTION
 -  REMODELED AREA
 -  NEW SITE DEVELOPMENT



New ECC & Multi-Purpose Building
L'ANSE CREUSE PUBLIC SCHOOLS

Project Sheet

new Multi-Purpose Center				Project No. [n]	22
Proposal #:	Series 1	Series 2	Series 3	n/a	<i>For multiple proposals, include a separate project page for each.</i>
	<input checked="" type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	<input type="checkbox"/> New stand-alone bldg	
	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	<input type="checkbox"/> New addition	
<i>The associated Cost Detail page must include a clear, concise, and detailed explanation and breakdown of costs for each checked box.</i>	<input checked="" type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	<input type="checkbox"/> Remodeling	
	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	<input type="checkbox"/> Instructional tech.	
	<input checked="" type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	<input type="checkbox"/> Furnishings/Equip.	
	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	<input type="checkbox"/> Buses	
	<input checked="" type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	<input type="checkbox"/> Site work	
	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	<input type="checkbox"/> Building shutdown (demo/closure)	
	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	<input type="checkbox"/> Site acquisition	

Construction Cost Per Square Foot

New Stand-Alone Construction Square Ft	86,000	Cost per Sq Ft	\$244
New 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)

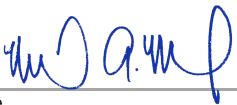
<input checked="" type="checkbox"/> None noted	<input type="checkbox"/> Asbestos abatement	<input type="checkbox"/> Energy efficiencies	<input type="checkbox"/> ADA requirements		
<input type="checkbox"/> Other - please list:	1.	2.	3.		

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 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.


11/28/2023
PARTNERS in Architecture, PLC #44723

Signature _____ Date _____ Firm Name and License Number _____

Michael A. Malone, AIA mmalone@partnersinarch.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: n/a

Multi-Purpose Building

Year Built: TBD

Future Pankow Blvd. Address

Building Size: 86,000

Building Project Work List

Site Size:

1.050

Date: 11/17/23

Category	Subcategory	Description	Qty	Unit	Unit Cost	Direct Cost	Direct w/ Escalation	Total w/ Indirect Costs	Phase / Series
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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
						Technology Infrastructure Subtotal:	48,720	58,125	

Technology Safety & Security

		install security camera system	10	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	1	lpsm	20,000.00	20,000	21,000	25,054	1
		install emergency alert system	4,000	sf	0.80	3,200	3,360	4,009	1
						Technology Safety & Security Subtotal:	48,510	57,875	
						Technology & Safety Infrastructure Subtotal:	97,230	116,000	
						REMODELING SUBTOTAL:	97,230	116,000	

SITE WORK

Site Improvements

		site work for new building	86,000	sqft	28.01	2,408,693	2,529,128	3,235,019	1
						Site Improvement Subtotal:	2,529,128	3,235,019	
						SITE WORK 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	1	each	30,000.00	30,000	31,500	37,581	1
						Non-Instructional Equipment Subtotal:	75,476	90,047	

Furniture, Furnishings & Equipment (FFE)

		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	

Notes:

Scope of work is conceptual and will be detailed throughout the design phase
 Indirect Costs include; contingency, general conditions & professional fees

PROJECT TOTAL:	23,764,834	30,373,814
Construction Contingency:	1,663,538	
Permits / General Conditions:	879,593	
Design Consultants:	1,973,097	
C.M. Costs:	2,092,751	
BUILDING 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. No.	Name of School Facility	Current Grade Structure	Proposed Grade Structure	Projected 5-Year Enrollment	Existing Pupil Capacity	New Pupil Capacity	Total Pupil Capacity	Utilization %	Closed Pupil Capacity
1	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:**

Instructional
Non-Instructional
Bus Garage
Storage
Stadium

****Closed Facility Reference:**

1. Demolish
2. Convert to non-instructional
3. Sell or lease
4. Retain for future use
5. Undetermined

Cost Summary - SERIES 1

L'Anse Creuse Public Schools

50-140

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	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 **\$110,000,000**
(Amount to be Qualified)

Cost Summary - SERIES 2

L'Anse Creuse Public Schools												50-140	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1	\$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 **\$110,000,000**
(Amount to be Qualified)

Cost Summary - SERIES 3

L'Anse Creuse Public Schools												50-140	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1		0	0	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): \$0

AMOUNT OF PROPOSED ISSUE **\$110,000,000**
(Amount to be Qualified)

Cost Summary - COMBINED SERIES 1-3

L'Anse Creuse Public Schools

50-140

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Proj. #	Cost per Sq Foot	New Cons Sq Feet	New Construction	Remodeling	Contingency	Instructional Technology	Loose Furn and Equip	Buses	Site Work	Site Acquisition	A/E Fees and Costs	CM Fees and Costs	Project Costs
1	\$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): \$0

AMOUNT OF PROPOSED ISSUE **\$330,000,000**
(Amount to be Qualified)

3881, Worksheet 1: Useful Life Calculation - SERIES 1

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

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

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

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

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	1	41	37,222,172	9,305,543	46,527,715	51.61%	21.16
Building Improvements	30	1	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/ Equipment	10	1	11	722,551	187,863	910,415	1.01%	0.11
Technology Infrastructure	10	1	11	8,077,501	2,180,925	10,258,426	11.38%	1.25
Technology (instr/non-instr)	5	1	6	10,029,904	2,507,476	12,537,380	13.91%	0.83
Buses	6	1	7	988,929	0	988,929	1.10%	0.08
Total for purposes of determining weighted avg useful life				71,385,750	18,772,109	90,157,859	100.00%	28.84

120% of average useful life of assets → 34.60

3881, Worksheet 1: Useful Life Calculation - SERIES 2

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

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

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

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

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	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 purposes of determining weighted avg useful life				76,289,284	22,144,753	98,434,037	100.00%	23.40

120% of average useful life of assets → 28.08

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

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

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	0	40	0	0	0	0.00%	0.00
Building 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/ Equipment	10	1	11	3,329,485	865,666	4,195,151	6.29%	0.69
Technology Infrastructure	10	0	10	0	0	0	0.00%	0.00
Technology (instr/non-instr)	5	0	5	0	0	0	0.00%	0.00
Buses	6	2	8	3,520,234	0	3,520,234	5.28%	0.42
Total for purposes of determining weighted avg useful life				51,552,501	15,170,557	66,723,058	100.00%	28.31

120% of average useful life of assets → 33.97

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

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

Follow Column Instructions	→	Enter Value	Col. 1 + Col. 2	Enter Value	Enter Value	Col. 4 + Col. 5	Col. 6 ÷ Col. 6 Total	Col. 3 x Col. 7
		Col. 1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7
Asset Type	Average Useful Life of Asset (in Years)	Time between Bonds Issue Date and Purchase	Useful Life of Asset from Bond Issue Date	Expenditure Amount	Allocation of Related Professional Fees	Total Costs (Incl. Related Fees)	% of Total Cost	Average Useful Life of Assets (in years)
School Buildings	40	1	41	41,172,567	10,293,142	51,465,709	20.16%	8.26
Building Improvements	30	2	32	80,262,484	25,683,995	105,946,479	41.50%	13.28
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/ Equipment	10	1	11	5,635,048	1,465,112	7,100,160	2.78%	0.31
Technology Infrastructure	10	1	11	13,463,657	3,635,187	17,098,845	6.70%	0.74
Technology (instr/non-instr)	5	1	6	24,171,814	6,042,953	30,214,767	11.83%	0.71
Buses	6	2	8	6,500,001	0	6,500,001	2.55%	0.20
Total for purposes of determining weighted avg useful life				199,227,536	56,087,419	255,314,954	100.00%	26.69

120% of average useful life of assets → 32.02



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
file