



MONADNOCK REGIONAL SCHOOL DISTRICT

ELEMENTARY LEVEL DISTRICT WIDE FACILITY AND SPACE NEEDS ASSESSMENT STUDY

ADDENDUM 1 – RECOMMENDATIONS

November 30, 2019



DETAILED OPTIONS COMPARISONS

The Monadnock Regional School District is a diverse and sprawling school district. Finding a solution to the building issues that satisfies all is difficult. These options are meant to show a logical thought process that explores the possibilities. The final recommendation is the option that in this writer's opinion best addresses the needs at a reasonable cost.

The eight options are meant to show a natural progression of thought from the current situation through conclusions that offer a range of possibilities. Each option is reviewed for their positive and negative aspects and the cost differences. It is well understood that the District is unlikely to support any construction project that does not make financial sense. This process is intended to evaluate each option fairly and completely using the best data available at the time.

Core to the cost evaluation are the construction cost estimates and the Life-Cycle Cost Analysis worksheets. The construction cost estimates include both Hard and Soft costs to ensure complete and reasonable estimate. Hard costs are based on the NH State Department of Education FY 2020 Maximum Allowable Costs for School Construction of \$182 per square foot for an elementary school in Cheshire County. This is then modified by 10% to account for inflation for two years. The result is a cost for construction of \$200 per square foot. Other Hard costs are the site development and earthwork. These are much more difficult to estimate. What has been used is reasonable estimate based on this writer's experience.

The Life-Cycle costs are a combination of Building Needs, Utilities, Human Resources and Financial costs. Many of these numbers are estimates but as much as possible these are researched and reasonable if not conservative. They are applied fairly across options so that if there is a mistake, it is unlikely that it would cause a change in the outcome.

The Building Needs and Utilities are relatively easy to explain. The Building Needs are the issues identified in the Building Needs Assessment Study. The Utilities are the current and projected costs for heating and electricity. Mt Caesar has recently gone through heating and electrical renovations, so there is data to show what the cost difference would be if other schools also went through similar renovations. For new construction is there is data from other districts or regional and national indexes.

The costs for Human Resources are more difficult to predict but is rooted in studies and common sense. The concept is that an existing, older, poorly designed facilities with less quality materials will be less efficient for the staff and less productive for students. For an example; a new school with new and more durable materials will take less time to clean than an older school. Another example; teachers and students that work in a classroom that is well-lit, well ventilated with a comfortable temperature, will be more productive and less likely to be out sick. The savings for not having as many substitute teachers can be calculated.

The Financial costs refer to the cost of financing a bond but also includes the value of existing buildings that could be included in the tax base. The cost of the bond comes in two parts; the principal payment and the interest. Most bonds are level principal so the interest payments actually decline over time. In 10 years the interest would be half of the first year's payment on a 20-year bond. In some options where there is consolidation of schools, the existing building is assumed to be repurposed and therefore gives value that offsets some of the costs. For the analysis the value of the sale of the property is not calculated but the potential property tax revenue is. Very conservative values of roughly \$30 per square foot are used.

The Life-Cycle cost projections are limited to 10 years. After more than 10 years it becomes increasingly difficult to predict building upgrade needs. This is when even new construction would start to need regular maintenance. A 10-year horizon does not cover the entire bond repayment which typically is 20 years, however after 10 years the bond payments are considerably less and also the population and valuation will have likely changed. New residents 10 years out will share the cost of the bond and it is likely property values will increase and negate some of the tax impact. The differences of the different options after 10 years is impossible to predict and possibly not significant.

Demographics should also influence the selection of the recommended option. Swanzey represents fully half of the districts population and therefore is the gravitational center of the district. The Middle School and the High School are located here. Fitzwilliam and Troy each represent about 16% of the population and Richmond 8% with these three towns together representing about 40% of the population.

Troy's town center is the most densely populated region. Swanzey is made up of several villages including East Swanzey and the largest, West Swanzey. The Middle School, High School and Mt Caesar Elementary are located between these villages about 3 miles from each center.

Lastly, inflation is added to all the numbers with a factor of 2.5% per year. Overall the district has seen an increase in energy costs by approximately 10 % a year for the last four years. Energy performance will have an even larger impact if energy costs continue to rise. Bond interest rates have averaged around 2.5% per year. There is no guarantee that bond rates will stay low but there is little indication in the market that they are going up any time soon. With inflation and energy costs rising at the rate higher than inflation, there is a great incentive to borrow money for needed improvements.

The success of any option is likely tied to receiving State Building Aid. The rate for the Monadnock Regional School District is currently 54% which is paid up-front thus reducing the need for a bond. There are some restrictions and it is possible that some options would receive less aid or even risk not being funded at all. The State Department of Education is encouraging the implementation of certain factors including; consolidation, solving life safety problems, energy efficiency, reuse of historic structures and other items. Options that contain the most of these factors are more likely to receive Building Aid.

OPTIONS

The options start with the simplest of scenarios and increase in complexity and explores alternatives.

Option 1 - Do Nothing

This option is literally what happens if the schools are left exactly the way they are. This is obviously not a viable option because it does nothing to solve the problems identified in the schools. What is important however is to note that “doing nothing” actually has a cost. The schools will cost more to heat, staff will spend more time cleaning and maintaining the buildings and teachers and students will be less productive. These added costs can be estimated and should be used as a benchmark when comparing to other options.

BUILDING PROJECT COST	=	\$0
STATE BUILDING AID	=	\$0
BOND AMOUNT	=	\$0
LIFE -CYCLE, 10YR COSTS	=	\$19,036,920

Option 2 - Upgrades Over 10 Years

This option is the “pay as you go” option. Common Sense might suggest that this is the most financially responsible option but that ignores a number of factors. First of all, inflation in construction and energy are outpacing the bond interest. By locking in a low interest rate bond, the value of the construction is locked in for 20 years. Also, by putting off needed improvements the district is denied the benefits of lower energy bills and better teacher and student performance. The result is a much higher long-term cost.

Building Aid is assumed to not be available due to the projects being paid through the operating budget. If Building Aid is available it would be limited by rules setting maximum size and cost of projects. Emerson and Gilsum would only be allowed a small amount of state aid due to the fact that they have received large additions within the last 50 years that received Building Aid.

BUILDING PROJECT COST	=	\$0
STATE BUILDING AID	=	\$??
BOND AMOUNT	=	\$0
LIFE -CYCLE, 10YR COSTS	=	\$40,974,573

Option 3 – Additions/Renovations District Wide in One Year

This option performs all upgrades of Option 2 in one year by financing it through a bond. By combining all the district needs into one project there is an economy of scale. As mentioned in Option 2, the cost of the interest on the bond is lower than the cost of

inflation. Add to that the benefit of better facilities on maintenance and performance and the net cost of this option is much lower than doing the projects over time.

As in Option 1, State Building Aid would be limited in this scenario. Some facilities have received Building Aid in the last 50 years and those projects need to be deducted from the square foot of new construction financed by State Aid. The State also requires that renovations not exceed 60% of the value of the existing building. Renovations at Gilsum and Troy exceed 60% of their current value.

BUILDING PROJECT COST	=	\$21,9351,000
STATE BUILDING AID	=	\$5,355,505
BOND AMOUNT	=	\$16,579,496
LIFE -CYCLE, 10YR COSTS	=	\$26,652,923

Option 4 – New South Elementary, Additions/Renovations North Schools

Due to the demographics and the relatively small size of Emerson and Troy it makes sense to combine these schools into one. Both Emerson and Troy have numerous upgrades making a new school somewhat close in cost. If both buildings can be repurposed it is possible to see revenue from the property taxes. The efficiency of a new school adds to the savings. Most importantly this option meets many of the States criteria for Building Aid and is more likely to receive aid than the previous options.

This option does not address all the needs and most notably does not make any change to the site at Cutler.

BUILDING PROJECT COST	=	\$26,226,000
STATE BUILDING AID	=	\$10,196,712
BOND AMOUNT	=	\$16,029,288
LIFE -CYCLE, 10YR COSTS	=	\$25,739,998

Option 5 – New South Elementary, Additions/Renovations to Mt Caesar for North School for Swanzey, Additions/Renovations to Gilsum

Like Option 4, this consolidates Fitzwilliam and Troy into one new school but here Cutler is moved to the Mt Caesar site to create one school for Swanzey. This would be a relatively easy change for Swanzey since Cutler and Mt Caesar already share the same students split by grade. A single school for Swanzey would benefit the students since there would not be the transition to a new school at third grade.

BUILDING PROJECT COST	=	\$30,649,000
STATE BUILDING AID	=	\$14,427,396
BOND AMOUNT	=	\$16,221,604
LIFE -CYCLE, 10YR COSTS	=	\$22,427,410

Option 6 – New Single Consolidated Elementary School

A common sense approach might be to consolidate all the elementary school students into one central school building. This would simplify administration and maintenance. However, the experience for the students would probably not be as favorable. The school would need to hold over 1000 students which is very large for elementary ages. It would also be a very intense use for the site which would most likely be the Mt Caesar site.

The State caps Building Aid on the number of square feet per student minus any previous projects that already received Building Aid. This results in all-new construction receiving less Aid than projects that reuse buildings.

BUILDING PROJECT COST	=	\$34,332,000
STATE BUILDING AID	=	\$6,237,792
BOND AMOUNT	=	\$28,094,208
LIFE -CYCLE, 10YR COSTS	=	\$29,634,149

Option 7 – New South Elementary, Additions/Renovations to Mt Caesar for North School, Redistrict

This option consolidates five schools down to two by closing four schools and building one new on. A new South Elementary would be constructed somewhere central to Troy, Richmond and Fitzwilliam, and Mt Caesar would receive additions and renovations to make a North Elementary. These two schools would be equal in size making them efficient to staff and operate. This also provides the most equivalent experience for students throughout the district. It does require that students are distributed equally meaning that some students from Swanzeay would likely attend the South School.

As in Option 6, State Building Aid is reduced due to previous projects having to be deducted from the amount of new construction allowed. Even still, the savings for the improved efficiency make this option only 10% higher over 10 years than the baseline “Do Nothing” option.

BUILDING PROJECT COST	=	\$28,338,000
STATE BUILDING AID	=	\$8,142,984
BOND AMOUNT	=	\$20,195,016
LIFE -CYCLE, 10YR COSTS	=	\$20,986,650

*Option 8 – Additions/Renovations to Troy for South Elementary,
Additions/Renovations to Mt Caesar for North School, Redistrict*

The final option is similar to the previous in that it consolidates the district into just two elementary schools, one North located at Mt Caesar and one South, now located at Troy. It preserves the Troy school which is a historic building. This option is as efficient as Option 7 for operations.

The existing Troy school can be challenging to work with, but it also gives some unique opportunities. The existing building is 3-stories which keeps the footprint of the building small. If a 3-story addition were constructed to replace the 1-story wing, it is possible to have a much larger facility that does not occupy more area than it currently does.

BUILDING PROJECT COST	=	\$24,519,000
STATE BUILDING AID	=	\$11,000,260
BOND AMOUNT	=	\$13,518,740
LIFE -CYCLE, 10YR COSTS	=	\$18,649,929

RECOMMENDATION

It is clear the cost of upgrading the Monadnock Regional School District facilities can be done cost effectively. The cost of doing nothing or trying to pay-as-you-go can be expensive and does not give the benefits of upgraded facilities right away. Which option is best can be a matter of opinion and subject to intangible influences.

In general, the concept of two schools, one North in the district and one South in the district meets the needs within a reasonable cost. This effectively reduces the options down to Option 5, Option 7 and Option 8.

Option 8 “Additions and Renovations to Mt Caesar and Troy to create a North and a South elementary schools” has many advantages over the other options. It has the lowest Bond cost and the lowest Life-Cycle cost. It addresses all the issues for building and educational needs. It probably has the best chance for receiving State Building Aid. It scores well on the states criteria. The fact that the district already owns both properties means that a construction proposal can be generated much more quickly which could be key in an application process that is competitive.

End Report

**Monadnock Regional School District
Elementary School Improvements**

Student Enrollment per Option

	Student Capacity						Total
	Cutler	Emerson	Gilsum	Mt Caesar	Troy	New	
Option #1 Do Nothing	275	200	100	275	200		1,050
Option #2 Additions / Renovations Over Ten Years.	275	200	100	275	200		1,050
Option #3 Additions / Renovations District Wide in One Year	275	200	100	275	200		1,050
Option #4 New South Elementary, Additions / Renovations to North Schools	275		100	275		400	1,050
Option #5 New South Elementary, Add/Reno to Mt Caesar for Swanzy, Add/Reno to Gilsum			100	550		400	1,050
Option #6 Consolidate all Elementary onto Mt Caesar Site				1,050			1,050
Option #7 New South Elementary and Mt Caesar North with Redistricting				525		525	1,050
Option #8 Troy South Elementary and Mt Caesar North with Redistricting				525	525		1,050

**Monadnock Regional School District
Elementary School Improvements**

Total Building Project Cost per Option

	Building Project Costs						Total
	Cutler	Emerson	Gilsum	Mt Caesar	Troy	New	
Option #1 Do Nothing							\$ -
Option #2 Renovations and Additions Over Ten Years.							\$ -
Option #3 Additions/Renovations District Wide in One Year	\$ 4,124,000	\$ 3,493,000	\$ 4,644,000	\$ 1,874,000	\$ 7,800,000		\$ 21,935,000
Option #4 New South Elementary, Additions/Renovations to North Schools	\$ 4,124,000		\$ 4,644,000	\$ 1,874,000		\$ 15,584,000	\$ 26,226,000
Option #5 New South Elementary, Mt Caesar North Elementary, Add/Reno to Gilsum			\$ 4,644,000	\$ 10,421,000		\$ 15,584,000	\$ 30,649,000
Option #6 Consolidate all Elementary onto Mt Caesar Site						\$ 34,332,000	\$ 34,332,000
Option #7 New South Elementary and Mt Caesar North with Redistricting				\$ 9,023,000		\$ 19,315,000	\$ 28,338,000
Option #8 Troy South Elementary and Mt Caesar North with Redistricting				\$ 9,023,000	\$ 15,496,000		\$ 24,519,000

**Monadnock Regional School District
Elementary School Improvements**

Bond Cost per Option Comparison

	Bond Amount						Total
	Cutler	Emerson	Gilsum	Mt Caesar	Troy	New	
Option #1 Do Nothing							\$ -
Option #2 Renovations and Additions Over Ten Years.							\$ -
Option #3 Additions/Renovations District Wide in One Year	\$ 3,739,304	\$ 3,029,248	\$ 4,259,304	\$ 862,040	\$ 4,689,600		\$ 16,579,496
Option #4 New South Elementary, Additions/Renovations to North Schools	\$ 3,739,304		\$ 4,259,304	\$ 862,040		\$ 7,168,640	\$ 16,029,288
Option #5 New South Elementary, Mt Caesar North Elementary, Add/Reno to Gilsum			\$ 4,259,304	\$ 4,793,660		\$ 7,168,640	\$ 16,221,604
Option #6 Consolidate all Elementary onto Mt Caesar Site						\$ 28,094,208	\$ 28,094,208
Option #7 New South Elementary and Mt Caesar North with Redistricting				\$ 7,730,348		\$ 12,464,668	\$ 20,195,016
Option #8 Troy South Elementary and Mt Caesar North with Redistricting				\$ 7,730,348	\$ 9,148,392		\$ 16,878,740

**Monadnock Regional School District
Elementary School Improvements**

Life-Cycle Cost Comparisons

	Life-Cycle Costs (including 54% State Building Aid and Bond) over 10 years						Total
	Cutler	Emerson	Gilsum	Mt Caesar	Troy	New	
Option #1 Do Nothing	\$ 4,640,795	\$ 4,367,291	\$ 2,461,464	\$ 3,940,213	\$ 3,627,157		\$ 19,036,920
Option #2 Renovations and Additions Over Ten Years.	\$ 8,435,204	\$ 7,610,766	\$ 7,355,973	\$ 5,910,134	\$ 11,662,496		\$ 40,974,573
Option #3 Additions/Renovations District Wide in One Year	\$ 6,023,520	\$ 5,430,060	\$ 4,711,942	\$ 4,527,478	\$ 5,959,923		\$ 26,652,923
Option #4 New South Elementary, Additions/Renovations to North Schools	\$ 6,023,520		\$ 4,711,942	\$ 4,527,478		\$ 10,477,058	\$ 25,739,998
Option #5 New South Elementary, Mt Caesar North Elementary, Add/Reno to Gilsum			\$ 4,711,942	\$ 7,238,410		\$ 10,477,058	\$ 22,427,410
Option #6 Consolidate all Elementary onto Mt Caesar Site						\$ 29,634,149	\$ 29,634,149
Option #7 New South Elementary and Mt Caesar North with Redistricting				\$ 9,376,831		\$ 11,609,819	\$ 20,986,650
Option #8 Troy South Elementary and Mt Caesar North with Redistricting				\$ 9,376,831	\$ 9,273,098		\$ 18,649,929

Monadnock Regional School District
Building Options

	Description	Positives	Negatives
Option #1 Do Nothing	Perform only the upgrades that are required for life safety and general maintenance.	Least up-front capital cost. Worst for teacher retention.	Worst for education. Highest operational cost.
Option #2 Additions/Renovations District Wide	Perform upgrades and additions to bring all schools up to the District goal through a 5 year Capital Improvement Plan.	Addresses most needs for an effective cost up-front cost. Creates 4 roughly equally sized K-6 schools. Lower bussing costs.	Not all site issues can be fixed due to many aspects of existing not life-Cycle costs actually higher than other options. Inflation causes construction costs to be higher. Most amount of disruption to education.
Option #3 Additions/Renovations District Wide in One Year	Perform upgrades and additions to bring all schools up to the District goal. This would be financed through a bond and the construction would happen simultaneously.	Neighborhood schools for Swanzey better for students. Creates 4 roughly equally sized K-6 schools. Lower bussing costs.	Not all site issues can be fixed. Not all building issues can be addressed.
Option #4 New South Elementary, Additions/Renovations to Swanzey and Gilsum	A New elementary school would be built for Troy and Fitzwilliam somewhere central to the two town centers. Troy and Emerson would be closed. Additions and renovations would occur at Mt Caesar, Cutler and Gilsum.	Consolidated Troy/Fitzwilliam School would be more efficient to operate. Cutter site issues not addressed.	Troy and Fitzwilliam would have existing schools to be repurposed. Troy, Fitzwilliam and Swanzey would have existing schools to be repurposed. The North and South elementaries would not be equal in size.
Option #5 New South Elementary, Additions/Renovations to Gilsum	A New elementary school would be built for Troy and Fitzwilliam somewhere central to the two town centers. Troy and Emerson would be closed. Additions and renovations would occur at Mt Caesar to house all students from Swanzey. Cutler would be closed.	Consolidated Schools would be more efficient to operate. Removes student transition at third grade for Swanzey.	The size of a single school would be too large for elementary school students. State Aid would not be available for all of the construction.
Option #6 Consolidate all Elementary onto Mt Caesar Site	All Elementary Schools would be closed and a new elementary school would be built to house all the district elementary students.	One single elementary school would be the most efficient to operate.	
Option #7 Consolidate Across Town Borders with Additions and Renovations to Mt Caesar and a New School	Two schools would be created to form a North and a South elementary schools. The North Elementary would be Mt Caesar with additions and renovations and the South Elementary would be a New school building on a new site.	Two schools of equal size would be the most efficient to operate.	Redistricting to allocate students evenly would be politically difficult. Both Troy and Fitzwilliam would lose a school in their town center. Both Troy and Fitzwilliam would likely have to bus all of their students. The District does not currently own a site in the appropriate location.
Option #8 Consolidate Across Town Borders with Additions and Renovations to Mt Caesar and Troy	Two schools would be created to form a North and a South elementary schools. The North Elementary would be Mt Caesar with additions and renovations and the South Elementary would be Troy with additions and renovations.	Two schools of equal size would be the most efficient to operate. This would maintain a school presence in the center of Troy. The location of Troy School would allow some students to walk. Reusing the Troy School would preserve the historic building.	Redistricting to allocate students evenly would be politically difficult. Fitzwilliam would lose a school in their town. The Troy School site is challenging for a large addition. The District already owns the Troy School site. This would save considerable time.

OPTION 1

DO NOTHING

Life-Cycle Cost Analysis
Cutter Elementary School 275

Table H

12/10/2019

Emerson Elementary

Student Capacity: 200

Life-Cycle Cost Analysis

Table H

12/10/2019

Gilsum STEAM Academy

Student Capacity: 100

Life-Cycle Cost Analysis

Table H

12/10/2019

Mt Caesar Elementary

275

Life-Cycle Cost Analysis

Table H

12/10/2010

Troy Elementary

Life-Cycle Cost Analysis

		Student Capacity 200									
	Year	1	2	3	4	5	6	7	8	9	10
Task		-	-	-	-	-	-	-	-	-	-
Division 0		-	-	-	-	-	-	-	-	-	-
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grid		\$ 0.64	\$ 18,104	\$ 18,557	\$ 19,021	\$ 19,496	\$ 19,984	\$ 20,483	\$ 20,995	\$ 21,520	\$ 22,058
On-Site		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,610
Cooking Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heating Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oil		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Propane		\$ 0.83	\$ 23,479	\$ 24,066	\$ 24,668	\$ 25,284	\$ 25,916	\$ 26,564	\$ 27,228	\$ 27,909	\$ 28,607
Wood		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,322
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL	\$ 41,583	\$ 42,653	\$ 43,688	\$ 44,781	\$ 45,900	\$ 47,048	\$ 48,224	\$ 49,429	\$ 50,665	\$ 51,932
Cleaning		\$ 3.50	\$ 99,008	\$ 101,483	\$ 104,020	\$ 106,621	\$ 109,286	\$ 112,018	\$ 114,819	\$ 117,689	\$ 120,631
Repairs		\$ 0.35	\$ 9,901	\$ 10,148	\$ 10,402	\$ 10,662	\$ 10,929	\$ 11,202	\$ 11,482	\$ 11,769	\$ 12,063
Productivity Loss		3%	\$ 31,624	\$ 32,620	\$ 33,435	\$ 34,271	\$ 35,128	\$ 36,006	\$ 36,906	\$ 37,829	\$ 38,774
Bussing		\$ 5.00	\$ 141,440	\$ 144,976	\$ 148,600	\$ 152,315	\$ 156,123	\$ 160,026	\$ 164,027	\$ 168,127	\$ 172,331
	SUBTOTAL	\$ 282,172	\$ 289,227	\$ 296,457	\$ 303,869	\$ 311,465	\$ 319,252	\$ 327,233	\$ 335,414	\$ 343,800	\$ 352,395
	GRAND TOTAL	\$ 3,627,157									
	BOND COST										
Principal											
Interest											
Tax Income											
	SUBTOTAL										
	TOTAL	\$ 323,756	\$ 331,849	\$ 340,146	\$ 348,649	\$ 357,366	\$ 366,300	\$ 375,457	\$ 384,844	\$ 394,465	\$ 404,326
	BOND AMOUNT:	\$ -									
	BOND TERM	20									
	BOND RATE	2.5%									
	Building Size:	27598									
	Inflation Rate	2.5%									
	Value of Exist	\$ -									
	Total Project Cost:	\$ -									
	State Building Aid:	\$ -									

Table H
Barker Architects, PLLC
12/10/2019

OPTION 2

ADDITIONS AND RENOVATIONS OVER 10 YEARS

Cutler Elementary**Bond Cost Worksheet**

Student Capacity

275

1.	Site Development Costs		\$200,000
	Land Acquisition		
	Playfields	1	Field
	Paving	100	Spaces
	Site Prep & Utilities		\$200,000
2.	General Construction - New		\$3,164,000
	New Construction	4,357 s.f.	\$ 200 per s.f.
	Renovation		\$871,000
	Construction Contingency	5.00%	\$2,205,000
	Construction Manager Fee	5.00%	\$44,000
			\$44,000
3.	Design Fees		\$200,000
	Civil Engineering	6.00%	\$10,000
	A&E New Construction	5.00%	\$40,000
	A&E Renovation	7.00%	\$150,000
4.	Furniture, Equipment and Services		\$300,000
	Loose Equipment	5.00%	\$160,000
	Phone Service	1.00%	\$30,000
	Computers	2.00%	\$60,000
	Utility Charges	1.50%	\$50,000
5.	Administrative Costs		\$60,000
	Testing	0.25%	\$10,000
	Survey, Borings	0.25%	\$10,000
	Clerk of the Works	0.75%	\$30,000
	Bonding/Legal	0.30%	\$10,000
6.	Design Contingency	5%	\$200,000

Total Project Cost**\$4,124,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Emerson Elementary School**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs			\$200,000
	Land Acquisition			
	Playfields	1	Field	
	Paving	100	Spaces	
	Site Prep & Utilities			\$200,000
2.	General Construction - New			\$2,653,000
	New Construction	1,123 s.f.	\$ 200 per s.f.	\$225,000
	Renovation			\$ 2,406,000
	Construction Contingency	5.00%		\$11,000
	Construction Manager Fee	5.00%		\$11,000
3.	Design Fees			\$140,000
	Civil Engineering	6.00%		\$10,000
	A&E New Construction	5.00%		\$130,000
	A&E Renovation	7.00%		\$0
4.	Furniture, Equipment and Services			\$250,000
	Loose Equipment	5.00%		\$130,000
	Phone Service	1.00%		\$30,000
	Computers	2.00%		\$50,000
	Utility Charges	1.50%		\$40,000
5.	Administrative Costs			\$50,000
	Testing	0.25%		\$10,000
	Survey, Borings	0.25%		\$10,000
	Clerk of the Works	0.75%		\$20,000
	Bonding/Legal	0.30%		\$10,000
6.	Design Contingency	5%		\$200,000

Total Project Cost**\$3,493,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Gilsum Elementary**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs	\$0
	Land Acquisition	
	Playfields 1	Field
	Paving 100	Spaces
	Site Prep & Utilities	
2.	General Construction - New	\$3,824,000
	New Construction 8,383 s.f. \$ 200 per s.f.	\$1,677,000
	Renovation	\$1,979,000
	Construction Contingency 5.00%	\$84,000
	Construction Manager Fee 5.00%	\$84,000
3.	Design Fees	\$190,000
	Civil Engineering 6.00%	\$0
	A&E New Construction 5.00%	\$190,000
	A&E Renovation 7.00%	\$0
4.	Furniture, Equipment and Services	\$370,000
	Loose Equipment 5.00%	\$190,000
	Phone Service 1.00%	\$40,000
	Computers 2.00%	\$80,000
	Utility Charges 1.50%	\$60,000
5.	Administrative Costs	\$60,000
	Testing 0.25%	\$10,000
	Survey, Borings 0.25%	\$10,000
	Clerk of the Works 0.75%	\$30,000
	Bonding/Legal 0.30%	\$10,000
6.	Design Contingency	5%
		\$200,000

Total Project Cost**\$4,644,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Mt Ceasar Elementary**Bond Cost Worksheet**

Student Capacity

275

1. Site Development Costs				\$100,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$100,000
2. General Construction - New				\$1,454,000
New Constuction	5,407 s.f.	\$ 200 per s.f.		\$1,081,000
Renovation				\$265,000
Construction Contingency	5.00%			\$54,000
Construction Manager Fee	5.00%			\$54,000
3. Design Fees				\$80,000
Civil Engineering	6.00%			\$10,000
A&E New Construction	5.00%			\$50,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$130,000
Loose Equipment	5.00%			\$70,000
Phone Service	1.00%			\$10,000
Computers	2.00%			\$30,000
Utility Charges	1.50%			\$20,000
5. Administrative Costs				\$10,000
Testing	0.25%			\$0
Survey, Borings	0.25%			\$0
Clerk of the Works	0.75%			\$10,000
Bonding/Legal	0.30%			\$0
6. Design Contingency	5%			\$100,000

Total Project Cost**\$1,874,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Troy Elementary School**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs			\$200,000
	Land Acquisition			
	Playfields	1	Field	
	Paving	100	Spaces	
	Site Prep & Utilities			\$200,000
2.	General Construction - New			\$6,130,000
	New Construction	11,658 s.f.	\$ 200 per s.f.	\$2,332,000
	Renovation			\$3,564,000
	Construction Contingency	5.00%		\$117,000
	Construction Manager Fee	5.00%		\$117,000
3.	Design Fees			\$380,000
	Civil Engineering	6.00%		\$10,000
	A&E New Construction	5.00%		\$120,000
	A&E Renovation	7.00%		\$250,000
4.	Furniture, Equipment and Services			\$580,000
	Loose Equipment	5.00%		\$310,000
	Phone Service	1.00%		\$60,000
	Computers	2.00%		\$120,000
	Utility Charges	1.50%		\$90,000
5.	Administrative Costs			\$110,000
	Testing	0.25%		\$20,000
	Survey, Borings	0.25%		\$20,000
	Clerk of the Works	0.75%		\$50,000
	Bonding/Legal	0.30%		\$20,000
6.	Design Contingency	5%		\$400,000

Total Project Cost**\$7,800,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Cutler Elementary

Life-Cycle Cost Analysis

275

Student Capacity		Year									
		1	2	3	4	5	6	7	8	9	10
Task		28,413	62,407	83,157	75,103	38,694	36,530	72,748	32,897	4,496	200,692
Division 0		102,500	-	-	-	-	-	-	-	-	1,114,954
Division 1		13,838	105,063	43,076	-	-	-	-	-	-	-
Division 2		-	-	10,506	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	52,531	-	-	-	-	-	-	-	-
Division 8		29,725	-	-	331,144	-	-	-	-	-	-
Division 9		10,250	73,544	-	-	45,256	-	-	-	-	-
Division 10		-	-	19,384	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	26,266	-	-	-	-	-	-	-	-
Division 15		1,538	78,797	399,526	48,568	169,711	202,946	404,153	-	-	-
Division 16		SUBTOTAL	186,263	409,113	545,144	493,345	253,562	239,477	476,901	215,657	29,473
Water	\$	0.20	7,127	7,305	7,487	7,675	7,866	8,063	8,265	8,471	8,683
Electricity	\$	-	-	-	-	-	-	-	-	-	8,900
Grid	\$	0.59	21,024	21,549	22,088	22,640	23,206	23,786	24,381	24,990	25,615
On-Site	\$	0.70	-	-	-	-	-	-	-	-	26,256
Cooking Fuel	\$	0.02	713	730	749	767	787	806	826	847	868
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	890
Oil	\$	0.87	31,001	31,776	32,570	33,384	34,219	35,075	-	-	-
Propane	\$	0.80	-	-	-	-	-	-	-	-	35,601
Wood	\$	0.40	-	-	-	-	-	-	-	-	-
Electricity	\$	0.30	-	-	-	-	-	-	-	-	-
Other	\$	-	-	-	-	-	-	-	-	-	-
SUBTOTAL		59,864	61,360	62,894	64,467	65,078	67,740	66,531	68,194	69,839	71,646
Cleaning	\$	3.00	106,899	109,572	112,311	115,119	117,997	120,947	123,970	127,070	130,246
Repairs	\$	0.30	10,690	10,957	11,231	11,512	11,800	12,095	12,397	12,707	13,025
Productivity Loss	\$	2%	26,725	27,393	28,078	28,780	29,499	30,237	30,993	31,767	32,562
Bussing	\$	5,00	178,166	182,620	187,185	191,865	196,561	201,578	206,617	211,783	217,077
SUBTOTAL		322,480	330,542	338,805	347,275	355,357	364,856	373,977	383,327	392,910	402,733
GRAND TOTAL	\$	8,435,204									
BOND COST											
Principal											
Interest											
Tax Income											
SUBTOTAL											
TOTAL		568,606	801,015	946,843	904,086	675,697	672,063	917,409	667,178	492,282	1,790,024
Total Project Cost:											
State Building Aid:											
Bond Amount:	\$	-									
Bond Term		20									
Bond Rate		2.5%									
Building Size:		347,64									
Inflation Rate		2.5%									
Value of Exist		0									

Table H

12/10/2019

Barker Architects PLLC

Life-Cycle Cost Analysis

Life-Cycle Cost Analysis										
Emerson Elementary		Student Capacity			200					
Task	Year	1	2	3	4	5	6	7	8	9
BUILDING NEEDS	Division 0	27,306	26,665	78,505	51,857	58,245	58,449	53,491	55,925	74,182
	Division 1	102,500	6,304	-	-	-	-	-	62,443	63,364
	Division 2	-	-	-	-	-	-	-	-	288,019
	Division 3	-	-	-	-	-	-	-	-	-
	Division 4	-	-	-	-	135,769	-	-	-	-
	Division 5	8,200	-	-	-	-	-	-	-	-
	Division 6	20,500	21,013	-	-	55,191	-	-	-	60,920
	Division 7	-	10,506	-	-	-	-	-	-	-
	Division 8	20,500	10,506	134,611	-	-	-	-	-	60,920
	Division 9	-	-	-	44,153	28,285	-	59,434	-	-
UTILITIES	Division 10	-	-	-	-	-	-	-	-	-
	Division 11	-	-	-	-	23,180	63,359	-	-	-
	Division 12	-	-	-	-	-	-	-	-	-
	Division 13	-	-	-	-	-	-	-	-	-
	Division 14	-	-	-	-	22,628	324,714	237,737	152,300	349,682
	Division 15	-	78,797	301,529	-	73,542	-	-	365,552	-
	Division 16	-	21,013	179,006	514,646	339,952	38,828	383,163	350,662	365,617
	SUBTOTAL	\$ 6,733	\$ 6,902	\$ 7,074	\$ 7,251	\$ 7,432	\$ 7,618	\$ 7,809	\$ 8,004	\$ 8,204
	Water	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20	\$ 0.20
	Electricity	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60	\$ 0.60
HUMAN RESOURCES	Grid	-	-	-	-	-	-	-	-	-
	On-Site	-	-	-	-	-	-	-	-	-
	Cooking Fuel	-	-	-	-	-	-	-	-	-
	Heating Fuel	-	-	-	-	-	-	-	-	-
	Oil	\$ 0.82	\$ 27,607	\$ 28,297	-	-	-	-	-	-
	Propane	\$ 0.80	\$ 0.40	-	-	-	-	-	-	-
	Wood	\$ 0.40	-	-	-	-	-	-	-	-
	Electricity	\$ 0.40	-	-	-	-	-	-	-	-
	Other	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ 54,541	\$ 55,904	\$ 56,594	\$ 58,009	\$ 59,460	\$ 60,946	\$ 62,470	\$ 64,031	\$ 65,632
RESOURCES	Cleaning	\$ 3.00	\$ 101,001	\$ 103,526	\$ 106,115	\$ 108,768	\$ 111,487	\$ 114,274	\$ 117,131	\$ 120,059
	Repairs	\$ 0.30	\$ 10,100	\$ 10,353	\$ 10,611	\$ 10,877	\$ 11,149	\$ 11,427	\$ 11,713	\$ 12,006
	Productivity Loss	2%	\$ 25,250	\$ 25,882	\$ 26,529	\$ 27,192	\$ 27,872	\$ 28,568	\$ 29,283	\$ 30,015
	Bussing	\$ 5.00	\$ 168,336	\$ 172,544	\$ 176,858	\$ 181,279	\$ 185,811	\$ 190,456	\$ 195,218	\$ 200,098
	SUBTOTAL	\$ 304,688	\$ 312,305	\$ 320,113	\$ 328,115	\$ 336,318	\$ 344,726	\$ 353,344	\$ 362,178	\$ 371,232
	Principal	-	-	-	-	-	-	-	-	-
	Interest	-	-	-	-	-	-	-	-	-
	Tax Income	-	-	-	-	-	-	-	-	-
	SUBTOTAL	-	-	-	-	-	-	-	-	-
	GRAND TOTAL	\$ 538,234	\$ 543,012	\$ 891,353	\$ 726,077	\$ 777,605	\$ 788,335	\$ 766,476	\$ 792,827	\$ 923,172
BOND COST		\$ 7,610,766			Building Size: Inflation Rate Value of Exist.			Total Project Cost: State Building Aid:		
Bond Amount: Bond Term:		\$ -	20	2.5%	32846	2.5%	0	\$ -	\$ -	\$ -

Table H

12/10/2019

Gilsum STEAM Academy		Student Capacity		100		Life-Cycle Cost Analysis						
Task	Year	1	2	3	4	5	6	7	8	9	10	
Division 0	37,638	47,467	50,398	56,626	47,655	67,842	53,491	26,318	11,240	386,406	BUILDING NEEDS	
Division 1	102,500	-	-	43,076	165,572	-	-	118,869	-	62,443		
Division 2	-	-	-	-	-	-	-	-	-	-		
Division 3	-	-	-	-	-	-	-	-	-	-		
Division 4	-	-	-	-	-	-	-	-	-	-		
Division 5	4,100	-	-	-	-	-	-	-	-	-		
Division 6	-	-	-	-	-	-	-	-	-	-		
Division 7	-	73,544	-	-	-	-	-	-	-	-		
Division 8	-	-	32,307	-	-	-	-	-	-	-		
Division 9	10,250	37,823	21,538	-	-	-	-	-	-	-		
Division 10	-	-	-	-	-	-	-	-	-	-		
Division 11	-	-	-	-	-	-	-	-	-	-		
Division 12	-	-	-	-	-	-	-	-	-	-		
Division 13	-	-	-	-	-	-	-	-	-	-		
Division 14	-	-	-	-	-	-	-	-	-	-		
Division 15	-	-	-	-	-	-	-	-	-	-		
Division 16	SUBTOTAL	92,250	246,738	311,174	330,390	371,212	312,404	444,742	350,662	172,526	73,633	2,533,108
Water	\$ 0.20	\$ 3,704	\$ 3,797	\$ 3,891	\$ 3,989	\$ 4,088	\$ 4,191	\$ 4,295	\$ 4,403	\$ 4,513	\$ 4,626	
Electricity	\$ -	\$ 0.85	\$ 15,742	\$ 16,135	\$ 16,539	\$ 16,952	\$ 17,376	\$ 17,810	\$ 18,256	\$ 18,712	\$ 19,180	19,659
Grid	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
On-Site	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cooking Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Heating Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Oil	\$ 0.94	\$ 17,409	\$ 17,844	\$ 18,290	\$ 18,777	\$ 19,217	\$ 19,651	\$ 20,088	\$ 20,525	\$ 21,062	\$ 21,609	
Propane	\$ 0.40	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Wood	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Electricity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Cleaning	SUBTOTAL	\$ 36,854	\$ 37,776	\$ 38,720	\$ 28,918	\$ 29,641	\$ 30,382	\$ 31,142	\$ 31,920	\$ 32,718	\$ 33,536	
Repairs	\$ 3.00	\$ 55,559	\$ 56,948	\$ 58,372	\$ 59,831	\$ 61,327	\$ 62,860	\$ 64,432	\$ 66,042	\$ 67,693	\$ 69,386	
Productivity Loss	\$ 0.30	\$ 5,556	\$ 5,695	\$ 5,837	\$ 5,983	\$ 6,133	\$ 6,286	\$ 6,443	\$ 6,604	\$ 6,769	\$ 6,939	
Bussing	\$ 2%	\$ 13,890	\$ 14,237	\$ 14,593	\$ 14,958	\$ 15,322	\$ 15,715	\$ 16,108	\$ 16,511	\$ 16,923	\$ 17,346	
HUMAN RESOURCES	\$ 5,00	\$ 92,599	\$ 94,913	\$ 97,286	\$ 99,718	\$ 102,211	\$ 104,767	\$ 107,386	\$ 110,071	\$ 112,822	\$ 115,643	
SUBTOTAL	167,603	171,793	176,088	180,490	185,903	189,638	194,368	199,228	204,208	209,314		
GRAND TOTAL	TOTAL	\$ 451,195	\$ 520,743	\$ 545,198	\$ 580,621	\$ 527,048	\$ 664,753	\$ 576,173	\$ 403,674	\$ 310,610	\$ 2,775,958	
BOND COST	Principal	-	-	-	-	-	-	-	-	-	-	
	Interest	-	-	-	-	-	-	-	-	-	-	
	Tax Income	-	-	-	-	-	-	-	-	-	-	

Table H

12/10/2019

Barker Architects, PLLC

Mt Caesar Elementary

Life-Cycle Cost Analysis

275

		Student Capacity		Year							
		1	2	3	4	5	6	7	8	9	10
Task		21,218	4,728	4,846	4,967	5,091	5,219	5,349	-	-	249,079
Division 0		102,500	-	-	-	-	-	-	-	-	1,383,771
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		15,375	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
BUILDING NEEDS		SUBTOTAL	139,093	30,993	31,763	32,562	33,377	34,211	35,066	-	1,632,850
Water	\$	0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613
Electricity	\$	-	-	-	-	-	-	-	-	-	9,894
Grid	\$	0.75	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050
On-Site	\$	-	-	-	-	-	-	-	-	-	36,951
Cooking Fuel	\$	-	-	-	-	-	-	-	-	-	-
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	-
Oil	\$	-	-	-	-	-	-	-	-	-	-
Propane	\$	0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746
Wood	\$	-	-	-	-	-	-	-	-	-	19,214
Electricity	\$	-	-	-	-	-	-	-	-	-	-
Other	\$	-	-	-	-	-	-	-	-	-	-
UTILITIES		SUBTOTAL	52,463	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409
Cleaning	\$	2.00	78,900	80,873	82,895	84,967	87,981	89,269	91,500	93,788	96,132
Repairs	\$	0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613
Productivity Loss	\$	1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025
Bussing	\$	5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331
HUMAN RESOURCES		SUBTOTAL	298,835	306,306	313,964	321,813	329,358	338,105	346,557	355,221	364,102
Principal		-	-	-	-	-	-	-	-	-	-
Interest		-	-	-	-	-	-	-	-	-	-
Tax Income		-	-	-	-	-	-	-	-	-	-
BOND COST		GRAND TOTAL	\$	5,910,134							
Bond Amount:	\$	-			Building Size:				Total Project Cost:	\$	-
Bond Term:	20	2.5%			Inflation Rate:	384.88			State Building Aid:	\$	-
Bond Rate:					Value of Exist	\$					

Table H

12/10/2019

Barker Architects, PLLC

Troy Elementary

Life-Cycle Cost Analysis

		Student Capacity		200			
		Year	1	2	3	4	5
Task		64,575	83,210	62,417	66,560	56,208	76,401
Division 0	-	126,075	-	-	-	28,285	289,923
Division 1	-	-	105,063	-	-	-	-
Division 2	-	-	-	-	-	-	77,265
Division 3	-	-	-	-	-	-	-
Division 4	-	-	-	-	-	-	-
Division 5	-	-	-	-	55,191	-	-
Division 6	-	-	-	-	66,229	33,942	-
Division 7	-	52,531	-	-	-	-	-
Division 8	-	-	323,067	-	-	-	-
Division 9	-	-	-	-	-	69,582	106,982
Division 10	-	-	-	-	-	-	30,460
Division 11	-	-	-	-	-	-	-
Division 12	-	-	-	-	23,760	64,943	-
Division 13	-	-	-	-	-	-	24,977
Division 14	-	-	-	-	-	-	312,216
Division 15	-	358,750	157,594	21,013	23,692	248,358	197,996
Division 16	SUBTOTAL	423,325	545,485	409,175	438,337	28,285	368,477
Water	\$	\$	\$	\$	\$	\$	\$
Electricity	\$	\$	\$	\$	\$	\$	\$
Grid	\$	0.64	18,104	18,557	19,021	19,496	19,984
On-Site	\$	-	-	-	-	-	-
Cooking Fuel	\$	-	-	-	-	-	-
Heating Fuel	\$	-	-	-	-	-	-
Oil	\$	-	-	-	-	-	-
Propane	\$	0.83	23,479	24,066	24,668	25,284	25,916
Wood	\$	-	-	-	-	-	-
Electricity	\$	-	-	-	-	-	-
Other	\$	-	-	-	-	-	-
HUMAN RESOURCES	SUBTOTAL	41,583	42,623	43,688	44,781	45,900	47,048
Cleaning	\$	3.00	84,864	86,985	89,160	91,389	93,674
Repairs	\$	0.30	8,486	8,699	8,916	9,139	9,367
Productivity Loss	\$	2%	21,216	21,746	22,290	22,847	23,418
Bussing	\$	5.00	141,440	144,976	148,600	152,315	156,123
RESOURCES	SUBTOTAL	256,006	262,406	268,966	275,690	282,583	289,617
BOND COST	Principal	-	-	-	-	-	-
	Interest	-	-	-	-	-	-
	Tax Income	-	-	-	-	-	-
	SUBTOTAL	-	-	-	-	-	-
	GRAND TOTAL	\$	11,662,496				
Bond Amount:	\$	-					
Bond Term:	2.5%	20					
Bond Rate:							
	Building Size:	27598					
	Inflation Rate:	2.5%					
	Value of Exist	\$					
	Total Project Cost:	\$					
	State Building Aid:	\$					

Table H
Barker Architects, PLLC
12/10/2019

OPTION 3

ADDITIONS / RENOVATIONS IN ONE YEAR

Cutler Elementary**Bond Cost Worksheet**

Student Capacity

275

1. Site Development Costs				\$200,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$200,000
2. General Construction - New				\$3,164,000
New Construction	4,357 s.f.	\$ 200 per s.f.		\$871,000
Renovation				\$2,205,000
Construction Contingency	5.00%			\$44,000
Construction Manager Fee	5.00%			\$44,000
3. Design Fees				\$200,000
Civil Engineering	6.00%			\$10,000
A&E New Construction	5.00%			\$40,000
A&E Renovation	7.00%			\$150,000
4. Furniture, Equipment and Services				\$300,000
Loose Equipment	5.00%			\$160,000
Phone Service	1.00%			\$30,000
Computers	2.00%			\$60,000
Utility Charges	1.50%			\$50,000
5. Administrative Costs				\$60,000
Testing	0.25%			\$10,000
Survey, Borings	0.25%			\$10,000
Clerk of the Works	0.75%			\$30,000
Bonding/Legal	0.30%			\$10,000
6. Design Contingency	5%			\$200,000
Total Project Cost				\$4,124,000

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Emerson Elementary School**Bond Cost Worksheet**

Student Capacity 200

1. Site Development Costs				\$200,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$200,000
2. General Construction - New				\$2,653,000
New Construction	1,123 s.f.	\$ 200 per s.f.		\$225,000
Renovation			\$	2,406,000
Construction Contingency	5.00%			\$11,000
Construction Manager Fee	5.00%			\$11,000
3. Design Fees				\$140,000
Civil Engineering	6.00%			\$10,000
A&E New Construction	5.00%			\$130,000
A&E Renovation	7.00%			\$0
4. Furniture, Equipment and Services				\$250,000
Loose Equipment	5.00%			\$130,000
Phone Service	1.00%			\$30,000
Computers	2.00%			\$50,000
Utility Charges	1.50%			\$40,000
5. Administrative Costs				\$50,000
Testing	0.25%			\$10,000
Survey, Borings	0.25%			\$10,000
Clerk of the Works	0.75%			\$20,000
Bonding/Legal	0.30%			\$10,000
6. Design Contingency	5%			\$200,000

Total Project Cost**\$3,493,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Gilsum Elementary**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs	\$0
	Land Acquisition	
	Playfields 1	Field
	Paving 100	Spaces
	Site Prep & Utilities	
2.	General Construction - New	\$3,824,000
	New Construction 8,383 s.f. \$ 200 per s.f.	\$1,677,000
	Renovation	\$1,979,000
	Construction Contingency 5.00%	\$84,000
	Construction Manager Fee 5.00%	\$84,000
3.	Design Fees	\$190,000
	Civil Engineering 6.00%	\$0
	A&E New Construction 5.00%	\$190,000
	A&E Renovation 7.00%	\$0
4.	Furniture, Equipment and Services	\$370,000
	Loose Equipment 5.00%	\$190,000
	Phone Service 1.00%	\$40,000
	Computers 2.00%	\$80,000
	Utility Charges 1.50%	\$60,000
5.	Administrative Costs	\$60,000
	Testing 0.25%	\$10,000
	Survey, Borings 0.25%	\$10,000
	Clerk of the Works 0.75%	\$30,000
	Bonding/Legal 0.30%	\$10,000
6.	Design Contingency	5%
		\$200,000

Total Project Cost**\$4,644,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Mt Ceasar Elementary**Bond Cost Worksheet**

Student Capacity

275

1. Site Development Costs				\$100,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$100,000
2. General Construction - New				\$1,454,000
New Constuction	5,407 s.f.	\$ 200 per s.f.		\$1,081,000
Renovation				\$265,000
Construction Contingency	5.00%			\$54,000
Construction Manager Fee	5.00%			\$54,000
3. Design Fees				\$80,000
Civil Engineering	6.00%			\$10,000
A&E New Construction	5.00%			\$50,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$130,000
Loose Equipment	5.00%			\$70,000
Phone Service	1.00%			\$10,000
Computers	2.00%			\$30,000
Utility Charges	1.50%			\$20,000
5. Administrative Costs				\$10,000
Testing	0.25%			\$0
Survey, Borings	0.25%			\$0
Clerk of the Works	0.75%			\$10,000
Bonding/Legal	0.30%			\$0
6. Design Contingency	5%			\$100,000

Total Project Cost**\$1,874,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Troy Elementary School**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs		\$200,000
	Land Acquisition		
	Playfields	1	Field
	Paving	100	Spaces
	Site Prep & Utilities		\$200,000
2.	General Construction - New		\$6,130,000
	New Construction	11,658 s.f.	\$ 200 per s.f.
	Renovation		\$3,564,000
	Construction Contingency	5.00%	\$117,000
	Construction Manager Fee	5.00%	\$117,000
3.	Design Fees		\$380,000
	Civil Engineering	6.00%	\$10,000
	A&E New Construction	5.00%	\$120,000
	A&E Renovation	7.00%	\$250,000
4.	Furniture, Equipment and Services		\$580,000
	Loose Equipment	5.00%	\$310,000
	Phone Service	1.00%	\$60,000
	Computers	2.00%	\$120,000
	Utility Charges	1.50%	\$90,000
5.	Administrative Costs		\$110,000
	Testing	0.25%	\$20,000
	Survey, Borings	0.25%	\$20,000
	Clerk of the Works	0.75%	\$50,000
	Bonding/Legal	0.30%	\$20,000
6.	Design Contingency	5%	\$400,000

Total Project Cost**\$7,800,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Cutler Elementary

Life-Cycle Cost Analysis
Student Capacity 275

Year	1	2	3	4	5	6	7	8	9	10
Task	-	-	-	-	-	-	-	-	-	-
Division 1	-	-	-	-	-	-	-	-	-	-
Division 2	-	-	-	-	-	-	-	-	-	-
Division 3	-	-	-	-	-	-	-	-	-	-
Division 4	-	-	-	-	-	-	-	-	-	-
Division 5	-	-	-	-	-	-	-	-	-	-
Division 6	-	-	-	-	-	-	-	-	-	-
Division 7	-	-	-	-	-	-	-	-	-	-
Division 8	-	-	-	-	-	-	-	-	-	-
Division 9	-	-	-	-	-	-	-	-	-	-
Division 10	-	-	-	-	-	-	-	-	-	-
Division 11	-	-	-	-	-	-	-	-	-	-
Division 12	-	-	-	-	-	-	-	-	-	-
Division 13	-	-	-	-	-	-	-	-	-	-
Division 14	-	-	-	-	-	-	-	-	-	-
Division 15	-	-	-	-	-	-	-	-	-	-
Division 16	-	-	-	-	-	-	-	-	-	-
BUILDING NEEDS										
Water	\$ 0.20	7,127	7,305	7,487	7,675	7,866	8,063	8,265	8,471	8,683
Electricity	\$ -	-	-	-	-	-	-	-	-	8,900
Grid	\$ 0.75	26,725	27,393	28,078	28,780	29,499	30,237	30,993	31,767	32,562
On-Site	\$ 0.02	713	730	749	767	787	806	826	847	868
Cooking Fuel	\$ -	-	-	-	-	-	-	-	-	890
Heating Fuel	\$ 0.87	31,001	-	-	-	-	-	-	-	-
Oil	\$ 0.80	-	29,219	29,950	30,698	31,466	32,252	33,059	33,885	34,732
Propane	\$ 0.40	-	-	-	-	-	-	-	-	35,601
Wood	\$ 0.40	-	-	-	-	-	-	-	-	-
Electricity	\$ 0.40	-	-	-	-	-	-	-	-	-
Other	\$ -	-	65,565	64,647	66,264	67,920	69,618	71,359	73,143	74,974
UTILITIES										78,767
Cleaning	\$ 2.00	71,266	73,048	74,874	76,746	78,665	80,631	82,647	84,713	86,831
Repairs	\$ 0.20	7,127	7,305	7,487	7,675	7,866	8,063	8,265	8,471	8,683
Productivity Loss	\$ 1%	13,362	13,696	14,039	14,390	14,750	15,118	15,496	15,884	16,281
Bussing	\$ 5.00	51,250	52,531	53,185	51,865	50,661	50,158	50,617	51,178	51,707
HUMAN RESOURCES										222,504
Cleaning	\$ 143,005	146,580	143,585	146,965	148,965	150,675	152,391	153,025	153,751	154,477
Repairs	\$ 186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965
Productivity Loss	\$ 88,808	84,134	79,460	74,786	70,112	65,438	60,764	56,090	51,415	46,741
Bussing	\$ -	-	-	-	-	-	-	-	-	-
BOND COST										337,094
Principal	\$ 275,774	271,100	266,425	261,751	257,077	252,403	247,779	243,055	238,381	233,707
Interest	\$ -	-	-	-	-	-	-	-	-	-
Tax Income	\$ -	-	-	-	-	-	-	-	-	-
GRAND TOTAL	\$ 6,023,520									
TOTAL	\$ 484,344	482,327	616,274	620,347	624,637	629,152	633,897	638,877	644,098	649,567
BOND AMOUNT:	\$ 3,739,304	\$ 20	\$ 2.5%	Building Size:	34764	Total Project Cost:	\$ 4,124,000			
BOND TERM:				Inflation Rate:	2.5%	State Building Aid:	\$ 384,696	(limited by previous additions)		
BOND RATE:				Value of Exist:	0					

Table H
12/10/2019

Barker Architects PLLC

Emerson Elementary		Life-Cycle Cost Analysis										
	Student Capacity	Year										
Task	Year	1	2	3	4	5	6	7	8	9	10	
Division 0	-	-	-	-	-	-	-	-	-	-	-	
Division 1	-	-	-	-	-	-	-	-	-	-	-	
Division 2	-	-	-	-	-	-	-	-	-	-	-	
Division 3	-	-	-	-	-	-	-	-	-	-	-	
Division 4	-	-	-	-	-	-	-	-	-	-	-	
Division 5	-	-	-	-	-	-	-	-	-	-	-	
Division 6	-	-	-	-	-	-	-	-	-	-	-	
Division 7	-	-	-	-	-	-	-	-	-	-	-	
Division 8	-	-	-	-	-	-	-	-	-	-	-	
Division 9	-	-	-	-	-	-	-	-	-	-	-	
Division 10	-	-	-	-	-	-	-	-	-	-	-	
Division 11	-	-	-	-	-	-	-	-	-	-	-	
Division 12	-	-	-	-	-	-	-	-	-	-	-	
Division 13	-	-	-	-	-	-	-	-	-	-	-	
Division 14	-	-	-	-	-	-	-	-	-	-	-	
Division 15	-	-	-	-	-	-	-	-	-	-	-	
Division 16	SUBTOTAL	\$ 0.20	6,733	6,902	7,074	7,251	7,432	7,618	7,809	8,004	8,204	8,409
Water	Electricity	\$ -	-	-	-	-	-	-	-	-	-	-
Grid	Grid	\$ 0.60	25,250	25,882	26,529	27,192	27,872	28,568	29,283	30,015	30,765	31,534
On-Site	On-Site	-	-	-	-	-	-	-	-	-	-	-
Cooking Fuel	Cooking Fuel	\$ -	-	-	-	-	-	-	-	-	-	-
Heating Fuel	Heating Fuel	\$ -	-	-	-	-	-	-	-	-	-	-
Oil	Oil	\$ 0.82	-	-	-	-	-	-	-	-	-	-
Propane	Propane	\$ 0.40	13,467	13,804	14,149	14,502	14,865	15,237	15,617	16,008	16,408	16,818
Wood	Wood	\$ 0.40	-	-	-	-	-	-	-	-	-	-
Electricity	Electricity	\$ 0.40	-	-	-	-	-	-	-	-	-	-
Other	Other	\$ -	-	-	-	-	-	-	-	-	-	-
Cleaning	SUBTOTAL	\$ 2.00	67,334	69,018	70,743	72,512	74,324	76,183	78,087	80,039	82,040	84,091
Repairs	Repairs	\$ 0.20	6,733	6,902	7,074	7,251	7,432	7,618	7,809	8,004	8,204	8,409
Productivity Loss	Productivity Loss	\$ 1%	12,625	12,941	13,264	13,596	13,936	14,284	14,641	15,007	15,383	15,767
Bussing	Bussing	\$ 5.00	168,336	172,544	176,858	181,279	185,811	190,456	195,218	200,098	205,101	210,228
HUMAN RESOURCES	SUBTOTAL	\$ 255,029	261,404	267,939	274,638	281,504	288,512	295,755	303,149	-	-	318,496
Principal	Principal	\$ 151,462	151,462	151,462	151,462	151,462	151,462	151,462	151,462	151,462	151,462	151,462
Interest	Interest	\$ 71,945	68,158	64,372	60,585	56,798	53,012	49,225	45,439	41,652	37,866	-
Tax Income	Tax Income	-	-	-	-	-	-	-	-	-	-	-
BOND COST	SUBTOTAL	\$ 223,407	219,620	215,834	212,047	208,361	204,474	200,688	196,901	193,115	189,328	-
	TOTAL	\$ 523,886	527,612	531,525	535,631	539,934	544,439	549,152	554,077	559,219	564,585	-
	GRAND TOTAL	\$ 5,430,060										
Bond Amount:	\$ 3,029,248	Building Size: 20	32846	Total Project Cost: \$ 3,493,000								
Bond Term:	2.5%	Inflation Rate: 2.5%	0	State Building Aid: \$ 463,752	(Limited by previous additions)							
Bond Rate:		Value of Exist: 0										

Table H
12/10/2019

Barker Architects, PLLC

Gilsum STEAM Academy		Student Capacity		Life-Cycle Cost Analysis									
	Task	Year	1	2	3	4	5	6	7	8	9	10	
Division 0		-	-	-	-	-	-	-	-	-	-	-	
Division 1		-	-	-	-	-	-	-	-	-	-	-	
Division 2		-	-	-	-	-	-	-	-	-	-	-	
Division 3		-	-	-	-	-	-	-	-	-	-	-	
Division 4		-	-	-	-	-	-	-	-	-	-	-	
Division 5		-	-	-	-	-	-	-	-	-	-	-	
Division 6		-	-	-	-	-	-	-	-	-	-	-	
Division 7		-	-	-	-	-	-	-	-	-	-	-	
Division 8		-	-	-	-	-	-	-	-	-	-	-	
Division 9		-	-	-	-	-	-	-	-	-	-	-	
Division 10		-	-	-	-	-	-	-	-	-	-	-	
Division 11		-	-	-	-	-	-	-	-	-	-	-	
Division 12		-	-	-	-	-	-	-	-	-	-	-	
Division 13		-	-	-	-	-	-	-	-	-	-	-	
Division 14		-	-	-	-	-	-	-	-	-	-	-	
Division 15		-	-	-	-	-	-	-	-	-	-	-	
Division 16			SUBTOTAL										
Water	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	0.75	13,890	14,237	14,593	14,958	15,332	15,715	16,108	16,511	16,923	17,346
Grid	\$	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	\$	0.94	-	-	-	-	-	-	-	-	-	
Propane	\$	\$	0.40	7,408	7,593	7,783	7,977	8,177	8,381	8,591	8,806	9,026	9,251
Wood	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	\$	2.00	37,039	37,965	38,915	39,887	40,885	41,907	42,954	44,028	45,129	46,257
Repairs	\$	\$	0.20	3,704	3,797	3,891	3,989	4,088	4,191	4,295	4,403	4,513	4,626
Productivity Loss	\$	\$	1%	6,945	7,119	7,296	7,479	7,666	7,858	8,054	8,255	8,462	8,673
Bussing	\$	\$	5.00	92,599	94,913	97,286	99,718	102,211	104,767	107,386	110,071	112,822	115,643
RESOURCES	HUMAN RESOURCES		SUBTOTAL	21,298	21,830	22,376	22,935	23,509	24,036	24,699	25,316	25,949	26,538
PRINCIPAL	BOND COST		SUBTOTAL	140,287	143,794	147,389	151,073	154,350	158,722	162,690	166,757	170,976	175,199
Interest	BOND COST		Principal	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965
Tax Income	BOND COST		Interest	101,158	95,834	90,510	85,186	79,862	74,538	69,214	63,890	58,555	53,241
	BOND COST		SUBTOTAL	314,124	308,800	303,475	298,151	292,827	287,503	282,179	276,855	271,531	266,207
	BOND COST		TOTAL	475,708	474,424	473,240	472,160	471,186	470,321	469,567	468,928	468,406	468,003
	GRAND TOTAL		\$	4,711,942									
	Building Size:												
	Inflation Rate												
	Value of Exist												
	Bond Amount:		\$	4,259,304	20								
	Bond Term:				2.5%								
	Bond Rate:					0							
	Total Project Cost:												
	State Building Aid:												
	\$ 4,644,000												
	\$ 384,696 (limited by previous additions)												

Table H
12/10/2019

Barker Architects, PLLC

Mt Caesar Elementary

Life-Cycle Cost Analysis

275

Task	Year	Student Capacity										
		1	2	3	4	5	6	7	8	9		
Division 0	-	-	-	-	-	-	-	-	-	-		
Division 1	-	-	-	-	-	-	-	-	-	-		
Division 2	-	-	-	-	-	-	-	-	-	-		
Division 3	-	-	-	-	-	-	-	-	-	-		
Division 4	-	-	-	-	-	-	-	-	-	-		
Division 5	-	-	-	-	-	-	-	-	-	-		
Division 6	-	-	-	-	-	-	-	-	-	-		
Division 7	-	-	-	-	-	-	-	-	-	-		
Division 8	-	-	-	-	-	-	-	-	-	-		
Division 9	-	-	-	-	-	-	-	-	-	-		
Division 10	-	-	-	-	-	-	-	-	-	-		
Division 11	-	-	-	-	-	-	-	-	-	-		
Division 12	-	-	-	-	-	-	-	-	-	-		
Division 13	-	-	-	-	-	-	-	-	-	-		
Division 14	-	-	-	-	-	-	-	-	-	-		
Division 15	-	-	-	-	-	-	-	-	-	-		
Division 16	SUBTOTAL	\$ 0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Water	\$	-	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050	36,951
Electricity	\$	0.75	-	-	-	-	-	-	-	-	-	
Grid	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	-	-	-	-	-	-	-	-	-	-	
Propane	\$	0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746	19,214
Wood	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	2.00	78,900	80,873	82,895	84,967	87,991	89,269	91,500	93,788	96,132	98,536
Repairs	\$	0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Productivity Loss	\$	1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025	18,475
Bussing	\$	5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331	246,339
HUMAN RESOURCES	SUBTOTAL	\$ 52,863	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409	66,019	
Principal	\$ 43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	
Interest	\$ 20,473	19,396	18,318	17,241	16,163	15,086	14,008	12,931	11,853	10,776		
Tax Income	-	-	-	-	-	-	-	-	-	-	-	
BOND COST	SUBTOTAL	\$ 63,575	62,498	61,420	60,343	59,265	58,188	57,110	56,033	54,955	53,878	
	TOTAL	\$ 415,274	422,989	430,924	439,084	447,475	456,102	464,973	474,092	483,466	493,101	
	GRAND TOTAL	\$ 4,527,478										
	Bond Amount:	\$ 862,040	Building Size: 20	384,88	Total Project Cost: \$1,874,000							
	Bond Term:	2.5%	Inflation Rate: 2.5%	Value of Exist: 0	Bond Building Aid: \$1,011,960							

Table H
Barker Architects, PLLC
12/10/2019

		Year	1	2	3	4	5	6	7	8	9	10
Task												
Division 0			-	-	-	-	-	-	-	-	-	-
Division 1			-	-	-	-	-	-	-	-	-	-
Division 2			-	-	-	-	-	-	-	-	-	-
Division 3			-	-	-	-	-	-	-	-	-	-
Division 4			-	-	-	-	-	-	-	-	-	-
Division 5			-	-	-	-	-	-	-	-	-	-
Division 6			-	-	-	-	-	-	-	-	-	-
Division 7			-	-	-	-	-	-	-	-	-	-
Division 8			-	-	-	-	-	-	-	-	-	-
Division 9			-	-	-	-	-	-	-	-	-	-
Division 10			-	-	-	-	-	-	-	-	-	-
Division 11			-	-	-	-	-	-	-	-	-	-
Division 12			-	-	-	-	-	-	-	-	-	-
Division 13			-	-	-	-	-	-	-	-	-	-
Division 14			-	-	-	-	-	-	-	-	-	-
Division 15			-	-	-	-	-	-	-	-	-	-
Division 16			-	-	-	-	-	-	-	-	-	-
	SUBTOTAL		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electricity			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grid			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
On-Site			\$ 0.75	\$ 21,216	\$ 21,746	\$ 22,290	\$ 22,847	\$ 23,418	\$ 24,004	\$ 24,604	\$ 25,219	\$ 25,850
Cooking Fuel			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heating Fuel			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oil			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Propane			\$ 0.40	\$ 11,315	\$ 11,598	\$ 11,888	\$ 12,185	\$ 12,990	\$ 12,802	\$ 13,122	\$ 13,450	\$ 13,786
Wood			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electricity			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL		\$ 32,531	\$ 33,344	\$ 34,178	\$ 35,032	\$ 35,908	\$ 36,806	\$ 37,726	\$ 38,669	\$ 39,636	\$ 40,627
Cleaning			\$ 2.00	\$ 56,576	\$ 57,990	\$ 59,440	\$ 60,926	\$ 62,449	\$ 64,010	\$ 65,611	\$ 67,251	\$ 68,932
Repairs			\$ 0.20	\$ 5,658	\$ 5,799	\$ 5,944	\$ 6,093	\$ 6,245	\$ 6,401	\$ 6,561	\$ 6,725	\$ 6,893
Productivity Loss			\$ 1%	\$ 10,608	\$ 10,873	\$ 11,145	\$ 11,424	\$ 11,709	\$ 12,002	\$ 12,302	\$ 12,610	\$ 12,925
Bussing			\$ 5.00	\$ 141,440	\$ 144,976	\$ 148,600	\$ 152,315	\$ 156,123	\$ 160,026	\$ 164,027	\$ 168,127	\$ 172,331
	SUBTOTAL		\$ 214,281	\$ 219,638	\$ 225,129	\$ 230,757	\$ 236,526	\$ 242,440	\$ 248,501	\$ 254,713	\$ 261,081	\$ 267,608
HUMAN RESOURCES			\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480	\$ 234,480
Principal			\$ 111,378	\$ 105,516	\$ 99,654	\$ 93,792	\$ 87,930	\$ 82,098	\$ 76,206	\$ 70,344	\$ 64,482	\$ 58,620
Interest			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Tax Income			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL		\$ 345,858	\$ 339,996	\$ 334,134	\$ 328,272	\$ 322,410	\$ 316,548	\$ 310,686	\$ 304,824	\$ 298,962	\$ 293,100
	TOTAL		\$ 592,670	\$ 592,979	\$ 593,441	\$ 594,062	\$ 594,845	\$ 595,794	\$ 596,913	\$ 598,206	\$ 599,679	\$ 601,335
	GRAND TOTAL	\$ 5,959,923										
Bond Amount:		\$ 4,689,600		Building Size:	27598		Total Project Cost:	\$7,800,000				
Bond Term		20		Inflation Rate	2.5%		State Building Aid:	\$3,110,400	(limited by maximum size/cost rules)			
Bond Rate		2.5%		Value of Exist	0							

Table H

Barker Architects, PLLC

12/10/2019

OPTION 4

**NEW SOUTH ELEMENTARY
ADDITIONS / RENOVATIONS TO NORTH SCHOOLS**

Cutler Elementary**Bond Cost Worksheet**

Student Capacity

275

1.	Site Development Costs		\$200,000
	Land Acquisition		
	Playfields	1	Field
	Paving	100	Spaces
	Site Prep & Utilities		\$200,000
2.	General Construction - New		\$3,164,000
	New Construction	4,357 s.f.	\$ 200 per s.f.
	Renovation		\$871,000
	Construction Contingency	5.00%	\$2,205,000
	Construction Manager Fee	5.00%	\$44,000
			\$44,000
3.	Design Fees		\$200,000
	Civil Engineering	6.00%	\$10,000
	A&E New Construction	5.00%	\$40,000
	A&E Renovation	7.00%	\$150,000
4.	Furniture, Equipment and Services		\$300,000
	Loose Equipment	5.00%	\$160,000
	Phone Service	1.00%	\$30,000
	Computers	2.00%	\$60,000
	Utility Charges	1.50%	\$50,000
5.	Administrative Costs		\$60,000
	Testing	0.25%	\$10,000
	Survey, Borings	0.25%	\$10,000
	Clerk of the Works	0.75%	\$30,000
	Bonding/Legal	0.30%	\$10,000
6.	Design Contingency	5%	\$200,000

Total Project Cost**\$4,124,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Gilsum Elementary**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs	\$0
	Land Acquisition	
	Playfields 1	Field
	Paving 100	Spaces
	Site Prep & Utilities	
2.	General Construction - New	\$3,824,000
	New Construction 8,383 s.f. \$ 200 per s.f.	\$1,677,000
	Renovation	\$1,979,000
	Construction Contingency 5.00%	\$84,000
	Construction Manager Fee 5.00%	\$84,000
3.	Design Fees	\$190,000
	Civil Engineering 6.00%	\$0
	A&E New Construction 5.00%	\$190,000
	A&E Renovation 7.00%	\$0
4.	Furniture, Equipment and Services	\$370,000
	Loose Equipment 5.00%	\$190,000
	Phone Service 1.00%	\$40,000
	Computers 2.00%	\$80,000
	Utility Charges 1.50%	\$60,000
5.	Administrative Costs	\$60,000
	Testing 0.25%	\$10,000
	Survey, Borings 0.25%	\$10,000
	Clerk of the Works 0.75%	\$30,000
	Bonding/Legal 0.30%	\$10,000
6.	Design Contingency	5%
		\$200,000

Total Project Cost**\$4,644,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Mt Ceasar Elementary**Bond Cost Worksheet**

Student Capacity

275

1. Site Development Costs				\$100,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$100,000
2. General Construction - New				\$1,454,000
New Constuction	5,407 s.f.	\$ 200 per s.f.		\$1,081,000
Renovation				\$265,000
Construction Contingency	5.00%			\$54,000
Construction Manager Fee	5.00%			\$54,000
3. Design Fees				\$80,000
Civil Engineering	6.00%			\$10,000
A&E New Construction	5.00%			\$50,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$130,000
Loose Equipment	5.00%			\$70,000
Phone Service	1.00%			\$10,000
Computers	2.00%			\$30,000
Utility Charges	1.50%			\$20,000
5. Administrative Costs				\$10,000
Testing	0.25%			\$0
Survey, Borings	0.25%			\$0
Clerk of the Works	0.75%			\$10,000
Bonding/Legal	0.30%			\$0
6. Design Contingency	5%			\$100,000

Total Project Cost**\$1,874,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Cutler Elementary Life-Cycle Cost Analysis

		Student Capacity 275										
		Year	1	2	3	4	5	6	7	8	9	10
Task			-	-	-	-	-	-	-	-	-	-
Division 1			-	-	-	-	-	-	-	-	-	-
Division 2			-	-	-	-	-	-	-	-	-	-
Division 3			-	-	-	-	-	-	-	-	-	-
Division 4			-	-	-	-	-	-	-	-	-	-
Division 5			-	-	-	-	-	-	-	-	-	-
Division 6			-	-	-	-	-	-	-	-	-	-
Division 7			-	-	-	-	-	-	-	-	-	-
Division 8			-	-	-	-	-	-	-	-	-	-
Division 9			-	-	-	-	-	-	-	-	-	-
Division 10			-	-	-	-	-	-	-	-	-	-
Division 11			-	-	-	-	-	-	-	-	-	-
Division 12			-	-	-	-	-	-	-	-	-	-
Division 13			-	-	-	-	-	-	-	-	-	-
Division 14			-	-	-	-	-	-	-	-	-	-
Division 15			-	-	-	-	-	-	-	-	-	-
Division 16		SUBTOTAL	-	-	-	-	-	-	-	-	-	-
	Water	\$ 0.20	7,127	7,305	7,487	7,675	7,866	8,063	8,265	8,471	8,683	8,900
	Electricity	\$ 0.75	26,725	27,393	28,078	28,780	29,499	30,237	30,993	31,767	32,552	33,376
	Grid	\$ 0.02	713	730	749	767	787	806	826	847	868	890
	On-Site	\$ 0.87	31,001	29,219	29,950	30,698	31,466	32,252	33,059	33,885	34,732	35,601
	Cooking Fuel	\$ 0.80	-	-	-	-	-	-	-	-	-	-
	Heating Fuel	\$ 0.40	-	-	-	-	-	-	-	-	-	-
	Oil	\$ 0.40	-	-	-	-	-	-	-	-	-	-
	Propane	\$ 0.40	-	-	-	-	-	-	-	-	-	-
	Wood	\$ 0.40	-	-	-	-	-	-	-	-	-	-
	Electricity	\$ 0.40	-	-	-	-	-	-	-	-	-	-
	Other	\$ -	-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ 65,565	64,647	66,264	67,920	69,618	71,359	73,141	74,971	76,845	78,767	
	Cleaning	\$ 2.00	71,266	73,048	74,874	76,746	78,665	80,631	82,647	84,713	86,831	89,002
	Repairs	\$ 0.20	7,127	7,305	7,487	7,675	7,866	8,063	8,265	8,471	8,683	8,900
	Productivity Loss	\$ 1%	13,362	13,696	14,039	14,390	14,750	15,118	15,496	15,884	16,281	16,688
	Busing	\$ 5.00	51,250	52,551	187,185	191,865	196,661	201,578	206,617	211,783	217,077	222,504
	SUBTOTAL	\$ 143,005	146,580	283,585	290,675	297,942	305,391	313,025	320,851	328,872	337,094	
	Principal	\$ 186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965	186,965
	Interest	\$ 88,808	84,134	79,460	74,786	70,112	65,438	60,764	56,090	51,415	46,741	
	Tax Income	\$ -	-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ 275,774	271,100	266,425	261,751	257,077	252,403	247,729	243,055	238,381	233,707	
	TOTAL	\$ 484,344	482,327	616,274	620,347	624,637	629,152	633,897	638,877	644,098	649,567	
	GRAND TOTAL	\$ 6,023,520										
	BOND COST	\$ 3,739,304	20	Building Site: Inflation Rate Value of Exist	34764 2.5% 0	Total Project Cost: State Building Aid:	\$ 124,000 \$ 384,696 (limited by previous additions)					
	Bond Amount:											
	Bond Term											
	Bond Rate											

Table H
12/10/2019
Barker Architects PLLC

Gilsum STEAM Academy		Student Capacity		Life-Cycle Cost Analysis									
	Task	Year	1	2	3	4	5	6	7	8	9	10	
Division 0		-	-	-	-	-	-	-	-	-	-	-	
Division 1		-	-	-	-	-	-	-	-	-	-	-	
Division 2		-	-	-	-	-	-	-	-	-	-	-	
Division 3		-	-	-	-	-	-	-	-	-	-	-	
Division 4		-	-	-	-	-	-	-	-	-	-	-	
Division 5		-	-	-	-	-	-	-	-	-	-	-	
Division 6		-	-	-	-	-	-	-	-	-	-	-	
Division 7		-	-	-	-	-	-	-	-	-	-	-	
Division 8		-	-	-	-	-	-	-	-	-	-	-	
Division 9		-	-	-	-	-	-	-	-	-	-	-	
Division 10		-	-	-	-	-	-	-	-	-	-	-	
Division 11		-	-	-	-	-	-	-	-	-	-	-	
Division 12		-	-	-	-	-	-	-	-	-	-	-	
Division 13		-	-	-	-	-	-	-	-	-	-	-	
Division 14		-	-	-	-	-	-	-	-	-	-	-	
Division 15		-	-	-	-	-	-	-	-	-	-	-	
Division 16			SUBTOTAL										
Water	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	0.75	13,890	14,237	14,593	14,958	15,332	15,715	16,108	16,511	16,923	17,346
Grid	\$	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	\$	0.94	-	-	-	-	-	-	-	-	-	
Propane	\$	\$	0.40	7,408	7,593	7,783	7,977	8,177	8,381	8,591	8,806	9,026	9,251
Wood	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	\$	2.00	37,039	37,965	38,915	39,887	40,885	41,907	42,954	44,028	45,129	46,257
Repairs	\$	\$	0.20	3,704	3,797	3,891	3,989	4,088	4,191	4,295	4,403	4,513	4,626
Productivity Loss	\$	\$	1%	6,945	7,119	7,296	7,479	7,666	7,858	8,054	8,255	8,462	8,673
Bussing	\$	\$	5.00	92,599	94,913	97,286	99,718	102,211	104,767	107,386	110,071	112,822	115,643
RESOURCES	HUMAN RESOURCES		SUBTOTAL	21,298	21,830	22,376	22,935	23,509	24,036	24,699	25,316	25,949	26,538
PRINCIPAL	BOND COST		SUBTOTAL	140,287	143,794	147,389	151,073	154,350	158,722	162,690	166,757	170,976	175,199
Interest	BOND COST		Principal	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965
Tax Income	BOND COST		Interest	101,158	95,834	90,510	85,186	79,862	74,538	69,214	63,890	58,555	53,241
	BOND COST		SUBTOTAL	314,124	308,800	303,475	298,151	292,827	287,503	282,179	276,855	271,531	266,207
	BOND COST		TOTAL	475,708	474,424	473,240	472,160	471,186	470,321	469,567	468,928	468,406	468,003
	GRAND TOTAL		\$	4,711,942									
	Building Size:												
	Inflation Rate												
	Value of Exist												
	Bond Amount:		\$	4,259,304	20								
	Bond Term:				2.5%								
	Bond Rate:					0							
	Total Project Cost:												
	State Building Aid:												
	\$ 4,644,000												
	\$ 384,696 (limited by previous additions)												

Table H
12/10/2019

Barker Architects, PLLC

Mt Caesar Elementary

Life-Cycle Cost Analysis

275

Task	Year	Student Capacity										
		1	2	3	4	5	6	7	8	9		
Division 0	-	-	-	-	-	-	-	-	-	-		
Division 1	-	-	-	-	-	-	-	-	-	-		
Division 2	-	-	-	-	-	-	-	-	-	-		
Division 3	-	-	-	-	-	-	-	-	-	-		
Division 4	-	-	-	-	-	-	-	-	-	-		
Division 5	-	-	-	-	-	-	-	-	-	-		
Division 6	-	-	-	-	-	-	-	-	-	-		
Division 7	-	-	-	-	-	-	-	-	-	-		
Division 8	-	-	-	-	-	-	-	-	-	-		
Division 9	-	-	-	-	-	-	-	-	-	-		
Division 10	-	-	-	-	-	-	-	-	-	-		
Division 11	-	-	-	-	-	-	-	-	-	-		
Division 12	-	-	-	-	-	-	-	-	-	-		
Division 13	-	-	-	-	-	-	-	-	-	-		
Division 14	-	-	-	-	-	-	-	-	-	-		
Division 15	-	-	-	-	-	-	-	-	-	-		
Division 16	SUBTOTAL	\$ 0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Water	\$	-	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050	36,951
Electricity	\$	0.75	-	-	-	-	-	-	-	-	-	
Grid	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	-	-	-	-	-	-	-	-	-	-	
Propane	\$	0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746	19,214
Wood	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	2.00	78,900	80,873	82,895	84,967	87,991	89,269	91,500	93,788	96,132	98,536
Repairs	\$	0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Productivity Loss	\$	1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025	18,475
Bussing	\$	5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331	246,339
HUMAN RESOURCES	SUBTOTAL	\$ 52,863	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409	66,019	
Principal	\$ 43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	43,102	
Interest	\$ 20,473	19,396	18,318	17,241	16,163	15,086	14,008	12,931	11,853	10,776		
Tax Income	-	-	-	-	-	-	-	-	-	-	-	
BOND COST	SUBTOTAL	\$ 63,575	62,498	61,420	60,343	59,265	58,188	57,110	56,033	54,955	53,878	
	TOTAL	\$ 415,274	422,989	430,924	439,084	447,475	456,102	464,973	474,092	483,466	493,101	
	GRAND TOTAL	\$ 4,527,478										
	Bond Amount:	\$ 862,040	Building Size: 20	384,88	Total Project Cost: \$1,874,000							
	Bond Term:	2.5%	Inflation Rate: 2.5%	Value of Exist: 0	Bond Building Aid: \$1,011,960							

Table H
Barker Architects, PLLC
12/10/2019

South Elementary		Life-Cycle Cost Analysis									
	Task	Student Capacity 400									
	Year	1	2	3	4	5	6	7	8	9	10
Division 0		-	-	-	-	-	-	-	-	-	-
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Utilities	Water	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Electricity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Grid	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	On-Site	\$ 0.60	\$ 33,338	\$ 34,171	\$ 35,026	\$ 35,901	\$ 36,799	\$ 37,719	\$ 38,662	\$ 39,628	\$ 40,619
	Cooking Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Heating Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Oil	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Propane	\$ 0.40	\$ 22,225	\$ 22,781	\$ 23,350	\$ 23,934	\$ 24,533	\$ 25,146	\$ 25,775	\$ 26,419	\$ 27,079
	Wood	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Electricity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Human Resources	SUBTOTAL	\$ 55,363	\$ 56,952	\$ 58,376	\$ 59,835	\$ 61,331	\$ 62,885	\$ 64,436	\$ 66,047	\$ 67,658	\$ 69,391
Cleaning		\$ 1.00	\$ 55,563	\$ 56,952	\$ 58,376	\$ 59,835	\$ 61,331	\$ 62,885	\$ 64,436	\$ 66,047	\$ 67,658
Repairs		\$ 0.10	\$ 5,556	\$ 5,695	\$ 5,838	\$ 5,984	\$ 6,133	\$ 6,286	\$ 6,444	\$ 6,605	\$ 6,770
Productivity Loss		0%	-	-	-	-	-	-	-	-	\$ 6,939
Bussing		\$ 6.00	\$ 333,379	\$ 341,714	\$ 350,257	\$ 359,013	\$ 367,988	\$ 377,188	\$ 386,618	\$ 396,283	\$ 406,190
RESOURCES	SUBTOTAL	\$ 394,499	\$ 404,361	\$ 414,470	\$ 424,832	\$ 435,453	\$ 446,339	\$ 457,498	\$ 468,935	\$ 480,558	\$ 492,675
Principal		\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432
Interest		\$ 170,255	\$ 161,294	\$ 152,334	\$ 143,373	\$ 134,412	\$ 125,451	\$ 116,490	\$ 107,530	\$ 98,569	\$ 89,608
Tax Income		\$ 49,200	\$ 50,430	\$ 51,691	\$ 52,983	\$ 54,308	\$ 55,665	\$ 57,057	\$ 58,483	\$ 59,945	\$ 61,444
BOND COST	SUBTOTAL	\$ 577,887	\$ 570,156	\$ 562,456	\$ 554,788	\$ 547,452	\$ 539,548	\$ 531,979	\$ 524,445	\$ 516,946	\$ 509,484
	TOTAL	\$ 1,027,949	\$ 1,031,470	\$ 1,035,303	\$ 1,039,455	\$ 1,043,936	\$ 1,048,752	\$ 1,053,913	\$ 1,059,427	\$ 1,065,303	\$ 1,071,550
	GRAND TOTAL	\$ 10,477,058									
	Bond Amount:	\$ 7,168,640	Building Size:	54208	Total Project Cost:	\$ 15,584,000					
	Bond Term	20	Inflation Rate:	2.5%	State Building Aid:	\$ 8,415,360					
	Bond Rate	2.5%	Value of Exist:	\$ 2,000,000							

Table H
12/10/2019

Barker Architects, PLLC

OPTION 5

**NEW SOUTH ELEMENTARY
ADDITIONS / RENOVATIONS TO MT CAESAR FOR
SWANZEY
ADDITIONS / RENOVATIONS TO GILSUM**

Gilsum Elementary**Bond Cost Worksheet**

Student Capacity 200

1.	Site Development Costs	\$0
	Land Acquisition	
	Playfields 1	Field
	Paving 100	Spaces
	Site Prep & Utilities	
2.	General Construction - New	\$3,824,000
	New Construction 8,383 s.f. \$ 200 per s.f.	\$1,677,000
	Renovation	\$1,979,000
	Construction Contingency 5.00%	\$84,000
	Construction Manager Fee 5.00%	\$84,000
3.	Design Fees	\$190,000
	Civil Engineering 6.00%	\$0
	A&E New Construction 5.00%	\$190,000
	A&E Renovation 7.00%	\$0
4.	Furniture, Equipment and Services	\$370,000
	Loose Equipment 5.00%	\$190,000
	Phone Service 1.00%	\$40,000
	Computers 2.00%	\$80,000
	Utility Charges 1.50%	\$60,000
5.	Administrative Costs	\$60,000
	Testing 0.25%	\$10,000
	Survey, Borings 0.25%	\$10,000
	Clerk of the Works 0.75%	\$30,000
	Bonding/Legal 0.30%	\$10,000
6.	Design Contingency	5%
		\$200,000

Total Project Cost**\$4,644,000**

(Note: all numbers rounded to nearest \$10,000)

Table G
 Barker Architects, Inc. 12/10/2019

Mt Ceasar Elementary**Bond Cost Worksheet**

Student Capacity 550

1. Site Development Costs				\$400,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities			\$100,000	\$300,000
2. General Construction - New				\$8,221,000
New Constuction	36,160 s.f.	\$ 200 per s.f.		\$7,232,000
Renovation				\$265,000
Construction Contingency	5.00%			\$362,000
Construction Manager Fee	5.00%			\$362,000
3. Design Fees				\$400,000
Civil Engineering	6.00%			\$20,000
A&E New Construction	5.00%			\$360,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$770,000
Loose Equipment	5.00%			\$410,000
Phone Service	1.00%			\$80,000
Computers	2.00%			\$160,000
Utility Charges	1.50%			\$120,000
5. Administrative Costs				\$130,000
Testing	0.25%			\$20,000
Survey, Borings	0.25%			\$20,000
Clerk of the Works	0.75%			\$60,000
Bonding/Legal	0.30%			\$30,000
6. Design Contingency	5%			\$500,000

Total Project Cost**\$10,421,000**

(Note: all numbers rounded to nearest \$10,000)

Table H

Barker Architects, Inc.

12/10/2019

New Elementary School**Bond Cost Worksheet**

Student Capacity 400

1.	Site Development Costs			\$700,000
	Land Acquisition		??	
	Playfields	1	Field Spaces	\$300,000
	Paving	100		\$200,000
	Site Prep & Utilities			\$200,000
2.	General Construction - New			\$12,234,000
	New Construction	55,609 s.f.	\$ 200 per s.f.	\$11,122,000
	Renovation			\$0
	Construction Contingency	5.00%		\$556,000
	Construction Manager Fee	5.00%		\$556,000
3.	Design Fees			\$600,000
	Civil Engineering	6.00%		\$40,000
	A&E New Construction	5.00%		\$560,000
	A&E Renovation	7.00%		\$0
4.	Furniture, Equipment and Services			\$1,150,000
	Loose Equipment	5.00%		\$610,000
	Phone Service	1.00%		\$120,000
	Computers	2.00%		\$240,000
	Utility Charges	1.50%		\$180,000
5.	Administrative Costs			\$200,000
	Testing	0.25%		\$30,000
	Survey, Borings	0.25%		\$30,000
	Clerk of the Works	0.75%		\$100,000
	Bonding/Legal	0.30%		\$40,000
6.	Design Contingency	5%		\$700,000

Total Project Cost**\$15,584,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Gilsum STEAM Academy		Student Capacity		Life-Cycle Cost Analysis									
	Task	Year	1	2	3	4	5	6	7	8	9	10	
Division 0		-	-	-	-	-	-	-	-	-	-	-	
Division 1		-	-	-	-	-	-	-	-	-	-	-	
Division 2		-	-	-	-	-	-	-	-	-	-	-	
Division 3		-	-	-	-	-	-	-	-	-	-	-	
Division 4		-	-	-	-	-	-	-	-	-	-	-	
Division 5		-	-	-	-	-	-	-	-	-	-	-	
Division 6		-	-	-	-	-	-	-	-	-	-	-	
Division 7		-	-	-	-	-	-	-	-	-	-	-	
Division 8		-	-	-	-	-	-	-	-	-	-	-	
Division 9		-	-	-	-	-	-	-	-	-	-	-	
Division 10		-	-	-	-	-	-	-	-	-	-	-	
Division 11		-	-	-	-	-	-	-	-	-	-	-	
Division 12		-	-	-	-	-	-	-	-	-	-	-	
Division 13		-	-	-	-	-	-	-	-	-	-	-	
Division 14		-	-	-	-	-	-	-	-	-	-	-	
Division 15		-	-	-	-	-	-	-	-	-	-	-	
Division 16			SUBTOTAL										
Water	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	0.75	13,890	14,237	14,593	14,958	15,332	15,715	16,108	16,511	16,923	17,346
Grid	\$	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	\$	0.94	-	-	-	-	-	-	-	-	-	
Propane	\$	\$	0.40	7,408	7,593	7,783	7,977	8,177	8,381	8,591	8,806	9,026	9,251
Wood	\$	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	\$	2.00	37,039	37,965	38,915	39,887	40,885	41,907	42,954	44,028	45,129	46,257
Repairs	\$	\$	0.20	3,704	3,797	3,891	3,989	4,088	4,191	4,295	4,403	4,513	4,626
Productivity Loss	\$	\$	1%	6,945	7,119	7,296	7,479	7,666	7,858	8,054	8,255	8,462	8,673
Bussing	\$	\$	5.00	92,599	94,913	97,286	99,718	102,211	104,767	107,386	110,071	112,822	115,643
RESOURCES	HUMAN RESOURCES		SUBTOTAL	21,298	21,830	22,376	22,935	23,509	24,036	24,699	25,316	25,949	26,538
PRINCIPAL	BOND COST		SUBTOTAL	140,287	143,794	147,389	151,073	154,350	158,722	162,690	166,757	170,976	175,199
Interest	BOND COST		Principal	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965	212,965
Tax Income	BOND COST		Interest	101,158	95,834	90,510	85,186	79,862	74,538	69,214	63,890	58,555	53,241
	BOND COST		SUBTOTAL	314,124	308,800	303,475	298,151	292,827	287,503	282,179	276,855	271,531	266,207
	BOND COST		TOTAL	475,708	474,424	473,240	472,160	471,186	470,321	469,567	468,928	468,406	468,003
	GRAND TOTAL		\$	4,711,942									
	Building Size:												
	Inflation Rate												
	Value of Exist												
	Bond Amount:		\$	4,259,304	20								
	Bond Term:				2.5%								
	Bond Rate:					0							
	Total Project Cost:												
	State Building Aid:												
	\$ 4,644,000												
	\$ 384,696 (limited by previous additions)												

Table H
12/10/2019

Barker Architects, PLLC

Mt Caesar Elementary		Student Capacity		Life-Cycle Cost Analysis								
	Year	1	2	3	4	5	6	7	8	9	10	
Task		-	-	-	-	-	-	-	-	-	-	
Division 0		-	-	-	-	-	-	-	-	-	-	
Division 1		-	-	-	-	-	-	-	-	-	-	
Division 2		-	-	-	-	-	-	-	-	-	-	
Division 3		-	-	-	-	-	-	-	-	-	-	
Division 4		-	-	-	-	-	-	-	-	-	-	
Division 5		-	-	-	-	-	-	-	-	-	-	
Division 6		-	-	-	-	-	-	-	-	-	-	
Division 7		-	-	-	-	-	-	-	-	-	-	
Division 8		-	-	-	-	-	-	-	-	-	-	
Division 9		-	-	-	-	-	-	-	-	-	-	
Division 10		-	-	-	-	-	-	-	-	-	-	
Division 11		-	-	-	-	-	-	-	-	-	-	
Division 12		-	-	-	-	-	-	-	-	-	-	
Division 13		-	-	-	-	-	-	-	-	-	-	
Division 14		-	-	-	-	-	-	-	-	-	-	
Division 15		-	-	-	-	-	-	-	-	-	-	
Division 16		-	-	-	-	-	-	-	-	-	-	
	SUBTOTAL	\$ 0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Water		\$ -	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050	36,951
Electricity		\$ 0.75	-	-	-	-	-	-	-	-	-	-
Grid		\$ -	-	-	-	-	-	-	-	-	-	-
On-Site		\$ -	-	-	-	-	-	-	-	-	-	-
Cooking Fuel		\$ -	-	-	-	-	-	-	-	-	-	-
Heating Fuel		\$ -	-	-	-	-	-	-	-	-	-	-
Oil		\$ -	-	-	-	-	-	-	-	-	-	-
Propane		\$ 0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746	19,214
Wood		\$ -	-	-	-	-	-	-	-	-	-	-
Electricity		\$ -	-	-	-	-	-	-	-	-	-	-
Other		\$ -	-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ 52,863	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409	66,019	67,690
Cleaning		\$ 1.50	59,175	60,655	62,171	63,725	65,318	66,951	68,625	70,341	72,099	73,902
Repairs		\$ 0.15	5,918	6,065	6,217	6,373	6,532	6,695	6,863	7,034	7,210	7,390
Productivity Loss		\$ 1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025	18,475
Bussing		\$ 5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331	246,339
	SUBTOTAL	\$ 277,138	284,066	291,168	298,447	305,908	313,556	321,395	329,430	337,665	346,107	357,683
RESOURCES		\$ 239,683	239,683	239,683	239,683	239,683	239,683	239,683	239,683	239,683	239,683	239,683
HUMAN		\$ 113,849	107,857	101,865	95,873	89,881	83,889	77,897	71,905	65,913	59,921	54,921
BOND COST		\$ 24,600	25,215	25,845	26,492	27,154	27,833	28,528	29,242	29,973	30,722	31,572
TAX Income		\$ -	-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ 373,132	372,755	367,394	365,048	356,718	351,405	346,108	340,830	335,569	330,326	337,683
	TOTAL	\$ 708,133	711,006	714,101	717,423	720,977	724,770	728,808	733,097	737,643	742,452	750,000
	GRAND TOTAL	\$ 7,238,410										
	Bond Amount:	\$ 4,733,660	Building Size: 20	Inflation Rate: 2.5%	Value of Exist: \$1,000,000	Total Project Cost: \$						
	Bond Term:	2.5%										
	Bond Rate:											

Table H
12/10/2019
Barker Architects, PLLC

South Elementary		Life-Cycle Cost Analysis									
	Task	Student Capacity 400									
	Year	1	2	3	4	5	6	7	8	9	10
Division 0		-	-	-	-	-	-	-	-	-	-
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Utilities	Water	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Electricity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Grid	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	On-Site	\$ 0.60	\$ 33,338	\$ 34,171	\$ 35,026	\$ 35,901	\$ 36,799	\$ 37,719	\$ 38,662	\$ 39,628	\$ 40,619
	Cooking Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Heating Fuel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Oil	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Propane	\$ 0.40	\$ 22,225	\$ 22,781	\$ 23,350	\$ 23,934	\$ 24,533	\$ 25,146	\$ 25,775	\$ 26,419	\$ 27,079
	Wood	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Electricity	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Human Resources	SUBTOTAL	\$ 55,363	\$ 56,952	\$ 58,376	\$ 59,835	\$ 61,331	\$ 62,885	\$ 64,436	\$ 66,047	\$ 67,658	\$ 69,391
Cleaning		\$ 1.00	\$ 55,563	\$ 56,952	\$ 58,376	\$ 59,835	\$ 61,331	\$ 62,885	\$ 64,436	\$ 66,047	\$ 67,658
Repairs		\$ 0.10	\$ 5,556	\$ 5,695	\$ 5,838	\$ 5,984	\$ 6,133	\$ 6,286	\$ 6,444	\$ 6,605	\$ 6,770
Productivity Loss		0%	-	-	-	-	-	-	-	-	\$ 6,939
Bussing		\$ 6.00	\$ 333,379	\$ 341,714	\$ 350,257	\$ 359,013	\$ 367,988	\$ 377,188	\$ 386,618	\$ 396,283	\$ 406,190
RESOURCES	SUBTOTAL	\$ 394,499	\$ 404,361	\$ 414,470	\$ 424,832	\$ 435,453	\$ 446,339	\$ 457,498	\$ 468,935	\$ 480,558	\$ 492,675
Principal		\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432	\$ 358,432
Interest		\$ 170,255	\$ 161,294	\$ 152,334	\$ 143,373	\$ 134,412	\$ 125,451	\$ 116,490	\$ 107,530	\$ 98,569	\$ 89,608
Tax Income		\$ 49,200	\$ 50,430	\$ 51,691	\$ 52,983	\$ 54,308	\$ 55,665	\$ 57,057	\$ 58,483	\$ 59,945	\$ 61,444
BOND COST	SUBTOTAL	\$ 577,887	\$ 570,156	\$ 562,456	\$ 554,788	\$ 547,452	\$ 539,548	\$ 531,979	\$ 524,445	\$ 516,946	\$ 509,484
	TOTAL	\$ 1,027,949	\$ 1,031,470	\$ 1,035,303	\$ 1,039,455	\$ 1,043,936	\$ 1,048,752	\$ 1,053,913	\$ 1,059,427	\$ 1,065,303	\$ 1,071,550
	GRAND TOTAL	\$ 10,477,058									
	Bond Amount:	\$ 7,168,640	Building Size:	54208	Total Project Cost:	\$ 15,584,000					
	Bond Term	20	Inflation Rate:	2.5%	State Building Aid:	\$ 8,415,360					
	Bond Rate	2.5%	Value of Exist:	\$ 2,000,000							

Table H
12/10/2019

Barker Architects, PLLC

OPTION 6

**CONSOLIDATE ALL ELEMENTARY SCHOOLS ONTO A
NEW SCHOOL AT
MT CAESAR SITE**

New Consolidated Elementary**Bond Cost Worksheet**

Student Capacity

1050

1. Site Development Costs				\$1,100,000
Land Acquisition			??	
Playfields	1	Field Spaces	\$300,000	
Paving	100		\$300,000	
Site Prep & Utilities			\$500,000	
2. General Construction - New				\$27,292,000
New Construction	##### s.f.	\$ 200 per s.f.	\$24,810,000	
Renovation			\$0	
Construction Contingency	5.00%		\$1,241,000	
Construction Manager Fee	5.00%		\$1,241,000	
3. Design Fees				\$1,310,000
Civil Engineering	6.00%		\$70,000	
A&E New Construction	5.00%		\$1,240,000	
A&E Renovation	7.00%		\$0	
4. Furniture, Equipment and Services				\$2,590,000
Loose Equipment	5.00%		\$1,360,000	
Phone Service	1.00%		\$270,000	
Computers	2.00%		\$550,000	
Utility Charges	1.50%		\$410,000	
5. Administrative Costs				\$440,000
Testing	0.25%		\$70,000	
Survey, Borings	0.25%		\$70,000	
Clerk of the Works	0.75%		\$210,000	
Bonding/Legal	0.30%		\$90,000	
6. Design Contingency	5%			\$1,600,000

Total Project Cost**\$34,332,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

New Consolidated Elementary		Student Capacity		Life-Cycle Cost Analysis							
	Year	1	2	3	4	5	6	7	8	9	10
Task											
Division 0	-	-	-	-	-	-	-	-	-	-	-
Division 1	-	-	-	-	-	-	-	-	-	-	-
Division 2	-	-	-	-	-	-	-	-	-	-	-
Division 3	-	-	-	-	-	-	-	-	-	-	-
Division 4	-	-	-	-	-	-	-	-	-	-	-
Division 5	-	-	-	-	-	-	-	-	-	-	-
Division 6	-	-	-	-	-	-	-	-	-	-	-
Division 7	-	-	-	-	-	-	-	-	-	-	-
Division 8	-	-	-	-	-	-	-	-	-	-	-
Division 9	-	-	-	-	-	-	-	-	-	-	-
Division 10	-	-	-	-	-	-	-	-	-	-	-
Division 11	-	-	-	-	-	-	-	-	-	-	-
Division 12	-	-	-	-	-	-	-	-	-	-	-
Division 13	-	-	-	-	-	-	-	-	-	-	-
Division 14	-	-	-	-	-	-	-	-	-	-	-
Division 15	-	-	-	-	-	-	-	-	-	-	-
Division 16	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water											
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grid		\$ 0.60	\$ 70,110	\$ 71,863	\$ 73,659	\$ 75,501	\$ 77,388	\$ 79,323	\$ 81,306	\$ 83,339	\$ 85,422
On-Site											87,558
Cooking Fuel											
Heating Fuel											
Oil											
Propane		\$ 0.40	\$ 46,740	\$ 47,909	\$ 49,106	\$ 50,334	\$ 51,592	\$ 52,882	\$ 54,204	\$ 55,559	\$ 56,948
Wood											58,372
Electricity											
Other											
Cleaning	SUBTOTAL	\$ 0.20	\$ 23,370	\$ 23,954	\$ 24,553	\$ 25,167	\$ 25,796	\$ 26,441	\$ 27,102	\$ 27,780	\$ 28,444
Repairs		\$ 0.08	\$ 9,348	\$ 9,582	\$ 9,821	\$ 10,067	\$ 10,318	\$ 10,576	\$ 10,841	\$ 11,112	\$ 11,390
Productivity Loss		0%	-	-	-	-	-	-	-	-	11,674
Bussing		\$ 6.00	\$ 701,100	\$ 718,628	\$ 736,593	\$ 755,008	\$ 773,883	\$ 793,230	\$ 813,061	\$ 833,388	\$ 854,222
HUMAN RESOURCES	SUBTOTAL	\$ 733,818	\$ 752,163	\$ 770,968	\$ 790,242	\$ 809,998	\$ 830,248	\$ 851,004	\$ 872,279	\$ 894,086	\$ 916,438
Principal Interest		\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710	\$ 1,404,710
Tax Income		\$ 667,237	\$ 632,120	\$ 597,002	\$ 561,884	\$ 526,766	\$ 491,649	\$ 456,531	\$ 421,413	\$ 386,295	\$ 351,178
BOND COST	SUBTOTAL	\$ 2,158,048	\$ 2,125,083	\$ 2,092,171	\$ 2,059,315	\$ 2,026,515	\$ 1,993,773	\$ 1,961,091	\$ 1,928,469	\$ 1,895,910	\$ 1,863,415
	TOTAL	\$ 3,008,716	\$ 2,997,017	\$ 2,985,904	\$ 2,975,391	\$ 2,965,493	\$ 2,956,226	\$ 2,947,605	\$ 2,939,646	\$ 2,932,367	\$ 2,925,783
	GRAND TOTAL	\$ 29,634,149									
	Bond Amount:	\$ 28,094,208	Bond Size:	114,000	Total Project Cost:	\$ 34,332,000					
	Bond Term:	20	Inflation Rate:	2.5%	State Building Aid:	\$ 6,237,792	(limited by previous additions)				
	Bond Rate:	2.5%	Value of Exist:	\$ 3,500,000							

Table H
12/10/2019

Barker Architects, PLLC

OPTION 7

**NEW SOUTH ELEMENTARY
ADDITIONS / RENOVATIONS TO CAESAR SITE AS NEW
NORTH ELEMENTARY**

North Elementary at Mt Caesar**Bond Cost Worksheet**

Student Capacity 525

1. Site Development Costs				\$400,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$100,000
				\$300,000
2. General Construction - New				\$7,083,000
New Construction	30,989 s.f.	\$ 200 per s.f.		\$6,198,000
Renovation				\$265,000
Construction Contingency	5.00%			\$310,000
Construction Manager Fee	5.00%			\$310,000
3. Design Fees				\$350,000
Civil Engineering	6.00%			\$20,000
A&E New Construction	5.00%			\$310,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$670,000
Loose Equipment	5.00%			\$350,000
Phone Service	1.00%			\$70,000
Computers	2.00%			\$140,000
Utility Charges	1.50%			\$110,000
5. Administrative Costs				\$120,000
Testing	0.25%			\$20,000
Survey, Borings	0.25%			\$20,000
Clerk of the Works	0.75%			\$60,000
Bonding/Legal	0.30%			\$20,000
6. Design Contingency	5%			\$400,000

Total Project Cost**\$9,023,000**

(Note: all numbers rounded to nearest \$10,000)

Table H
 Barker Architects, Inc. 12/10/2019

New Elementary School**Bond Cost Worksheet**

Student Capacity 525

1. Site Development Costs				\$700,000
Land Acquisition			??	
Playfields	1	Field		\$300,000
Paving	100	Spaces		\$200,000
Site Prep & Utilities				\$200,000
2. General Construction - New				\$15,285,000
New Construction	69,477 s.f.	\$ 200 per s.f.		\$13,895,000
Renovation				\$0
Construction Contingency	5.00%			\$695,000
Construction Manager Fee	5.00%			\$695,000
3. Design Fees				\$730,000
Civil Engineering	6.00%			\$40,000
A&E New Construction	5.00%			\$690,000
A&E Renovation	7.00%			\$0
4. Furniture, Equipment and Services				\$1,450,000
Loose Equipment	5.00%			\$760,000
Phone Service	1.00%			\$150,000
Computers	2.00%			\$310,000
Utility Charges	1.50%			\$230,000
5. Administrative Costs				\$250,000
Testing	0.25%			\$40,000
Survey, Borings	0.25%			\$40,000
Clerk of the Works	0.75%			\$120,000
Bonding/Legal	0.30%			\$50,000
6. Design Contingency	5%			\$900,000

Total Project Cost**\$19,315,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Mt Caesar Elementary

Life-Cycle Cost Analysis

Task	Year	Student Capacity										
		1	2	3	4	5	6	7	8	9	10	
Division 0	-	-	-	-	-	-	-	-	-	-		
Division 1	-	-	-	-	-	-	-	-	-	-		
Division 2	-	-	-	-	-	-	-	-	-	-		
Division 3	-	-	-	-	-	-	-	-	-	-		
Division 4	-	-	-	-	-	-	-	-	-	-		
Division 5	-	-	-	-	-	-	-	-	-	-		
Division 6	-	-	-	-	-	-	-	-	-	-		
Division 7	-	-	-	-	-	-	-	-	-	-		
Division 8	-	-	-	-	-	-	-	-	-	-		
Division 9	-	-	-	-	-	-	-	-	-	-		
Division 10	-	-	-	-	-	-	-	-	-	-		
Division 11	-	-	-	-	-	-	-	-	-	-		
Division 12	-	-	-	-	-	-	-	-	-	-		
Division 13	-	-	-	-	-	-	-	-	-	-		
Division 14	-	-	-	-	-	-	-	-	-	-		
Division 15	-	-	-	-	-	-	-	-	-	-		
Division 16	SUBTOTAL	\$ 0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Water	\$	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050	36,951	
Electricity	\$	0.75	-	-	-	-	-	-	-	-	-	
Grid	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	-	-	-	-	-	-	-	-	-	-	
Propane	\$	0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746	19,214
Wood	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	1.50	59,175	60,655	62,171	63,725	65,318	66,951	68,625	70,341	72,099	73,902
Repairs	\$	0.15	5,918	6,065	6,217	6,373	6,532	6,695	6,863	7,034	7,210	7,390
Productivity Loss	\$	1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025	18,475
Bussing	\$	5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331	246,339
RESOURCES	SUBTOTAL	\$ 52,863	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409	66,019	
HUMAN	SUBTOTAL	\$ 277,138	284,066	291,168	298,447	305,908	313,556	321,395	329,430	337,665	346,107	
RESOURCES	Principal	\$ 386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	
RESOURCES	Interest	\$ 183,596	173,933	164,270	154,607	144,944	135,281	125,618	115,955	106,292	96,629	
BOND COST	Tax Income	\$ 36,900	37,823	38,768	39,737	40,731	41,749	42,793	43,863	44,959	46,083	
BOND COST	SUBTOTAL	\$ 607,013	598,273	599,555	580,862	572,192	563,547	554,928	546,335	537,769	529,230	
GRAND TOTAL	TOTAL	\$ 937,014	936,524	936,263	936,237	936,451	936,913	937,628	938,603	939,843	941,356	

Bond Amount: \$ 7,730,348
 Bond Term: 20
 Bond Rate: 2.5%
 Building Size: 38488
 Inflation Rate: 2.5%
 Value of Exist: \$ 1,500,000
 Total Project Cost: \$ 9,023,000
 State Building Aid: \$ 1,292,652 (limited by previous additions)

Barker Architects, PLLC

12/10/2019

Table H

South Elementary		Life-Cycle Cost Analysis									
	Task	Student Capacity 525									
	Year	1	2	3	4	5	6	7	8	9	10
Division 0		-	-	-	-	-	-	-	-	-	-
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grid		\$ 0.60	\$ 16,973	\$ 17,397	\$ 17,832	\$ 18,278	\$ 18,735	\$ 19,203	\$ 19,683	\$ 20,175	\$ 20,680
On-Site		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,197
Cooking Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heating Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oil		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Propane		\$ 0.40	\$ 11,315	\$ 11,598	\$ 11,888	\$ 12,185	\$ 12,490	\$ 12,802	\$ 13,122	\$ 13,450	\$ 13,786
Wood		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,131
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL	\$ 28,388	\$ 28,995	\$ 29,720	\$ 30,463	\$ 31,225	\$ 32,005	\$ 32,805	\$ 33,625	\$ 34,466	\$ 35,328
Cleaning		\$ 1.00	\$ 28,288	\$ 28,995	\$ 29,720	\$ 30,463	\$ 31,225	\$ 32,005	\$ 32,805	\$ 33,625	\$ 34,466
Repairs		\$ 0.10	\$ 2,829	\$ 2,900	\$ 2,972	\$ 3,046	\$ 3,122	\$ 3,201	\$ 3,281	\$ 3,363	\$ 3,447
Productivity Loss		\$ 0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,533
Bussing		\$ 6.00	\$ 169,728	\$ 173,971	\$ 178,320	\$ 182,778	\$ 187,348	\$ 192,031	\$ 196,832	\$ 201,753	\$ 206,797
	SUBTOTAL	\$ 200,844	\$ 205,866	\$ 211,012	\$ 216,287	\$ 221,595	\$ 227,237	\$ 232,918	\$ 238,741	\$ 244,709	\$ 250,827
Principal		\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233	\$ 623,233
Interest		\$ 296,036	\$ 280,455	\$ 264,874	\$ 249,293	\$ 233,713	\$ 218,132	\$ 202,551	\$ 186,970	\$ 171,389	\$ 155,808
Tax Income		\$ 49,200	\$ 50,430	\$ 51,691	\$ 52,983	\$ 54,308	\$ 55,665	\$ 57,057	\$ 58,483	\$ 59,945	\$ 61,444
	SUBTOTAL	\$ 963,469	\$ 954,118	\$ 939,798	\$ 925,510	\$ 911,254	\$ 897,030	\$ 882,841	\$ 863,687	\$ 854,568	\$ 840,436
	TOTAL	\$ 1,197,602	\$ 1,188,979	\$ 1,180,531	\$ 1,172,260	\$ 1,164,173	\$ 1,156,273	\$ 1,148,565	\$ 1,141,053	\$ 1,133,744	\$ 1,126,641
	GRAND TOTAL	\$ 11,609,819									
Bond Amount:		\$ 12,464,668		Building Size:	27598		Total Project Cost:	\$ 19,315,000			
Bond Term		20		Inflation Rate:	2.5%		State Building Aid:	\$ 6,850,332	(limited by previous additions)		
Bond Rate		2.5%		Value of Exist:	\$ 2,000,000						

Table H
12/10/2019

Barker Architects, PLLC

OPTION 8

**ADDITIONS / RENOVATIONS
TO TROY AS NEW
SOUTH ELEMENTARY**

**ADDITIONS / RENOVATIONS TO MT CAESAR AS NEW
NORTH ELEMENTARY**

North Elementary at Mt Caesar**Bond Cost Worksheet**

Student Capacity 525

1. Site Development Costs				\$400,000
Land Acquisition				
Playfields	1	Field		
Paving	100	Spaces		
Site Prep & Utilities				\$300,000
2. General Construction - New				\$7,083,000
New Construction	30,989 s.f.	\$ 200 per s.f.		\$6,198,000
Renovation				\$265,000
Construction Contingency	5.00%			\$310,000
Construction Manager Fee	5.00%			\$310,000
3. Design Fees				\$350,000
Civil Engineering	6.00%			\$20,000
A&E New Construction	5.00%			\$310,000
A&E Renovation	7.00%			\$20,000
4. Furniture, Equipment and Services				\$670,000
Loose Equipment	5.00%			\$350,000
Phone Service	1.00%			\$70,000
Computers	2.00%			\$140,000
Utility Charges	1.50%			\$110,000
5. Administrative Costs				\$120,000
Testing	0.25%			\$20,000
Survey, Borings	0.25%			\$20,000
Clerk of the Works	0.75%			\$60,000
Bonding/Legal	0.30%			\$20,000
6. Design Contingency	5%			\$400,000

Total Project Cost**\$9,023,000**

(Note: all numbers rounded to nearest \$10,000)

Table H
 Barker Architects, Inc. 12/10/2019

South Elementary at Troy**Bond Cost Worksheet**

Student Capacity 525

1. Site Development Costs				\$400,000
Land Acquisition				
Playfields	1	Field	\$100,000	
Paving	100	Spaces	\$100,000	
Site Prep & Utilities			\$200,000	
2. General Construction - New				\$12,346,000
New Construction	39,919 s.f.	\$ 200 per s.f.	\$7,984,000	
Renovation			\$3,564,000	
Construction Contingency	5.00%		\$399,000	
Construction Manager Fee	5.00%		\$399,000	
3. Design Fees				\$670,000
Civil Engineering	6.00%		\$20,000	
A&E New Construction	5.00%		\$400,000	
A&E Renovation	7.00%		\$250,000	
4. Furniture, Equipment and Services				\$1,180,000
Loose Equipment	5.00%		\$620,000	
Phone Service	1.00%		\$120,000	
Computers	2.00%		\$250,000	
Utility Charges	1.50%		\$190,000	
5. Administrative Costs				\$200,000
Testing	0.25%		\$30,000	
Survey, Borings	0.25%		\$30,000	
Clerk of the Works	0.75%		\$100,000	
Bonding/Legal	0.30%		\$40,000	
6. Design Contingency	5%			\$700,000

Total Project Cost**\$15,496,000**

(Note: all numbers rounded to nearest \$10,000)

Table G

Barker Architects, Inc.

12/10/2019

Mt Caesar Elementary

Life-Cycle Cost Analysis

Task	Year	Student Capacity										
		1	2	3	4	5	6	7	8	9	10	
Division 0	-	-	-	-	-	-	-	-	-	-		
Division 1	-	-	-	-	-	-	-	-	-	-		
Division 2	-	-	-	-	-	-	-	-	-	-		
Division 3	-	-	-	-	-	-	-	-	-	-		
Division 4	-	-	-	-	-	-	-	-	-	-		
Division 5	-	-	-	-	-	-	-	-	-	-		
Division 6	-	-	-	-	-	-	-	-	-	-		
Division 7	-	-	-	-	-	-	-	-	-	-		
Division 8	-	-	-	-	-	-	-	-	-	-		
Division 9	-	-	-	-	-	-	-	-	-	-		
Division 10	-	-	-	-	-	-	-	-	-	-		
Division 11	-	-	-	-	-	-	-	-	-	-		
Division 12	-	-	-	-	-	-	-	-	-	-		
Division 13	-	-	-	-	-	-	-	-	-	-		
Division 14	-	-	-	-	-	-	-	-	-	-		
Division 15	-	-	-	-	-	-	-	-	-	-		
Division 16	SUBTOTAL	\$ 0.20	7,890	8,087	8,289	8,497	8,709	8,927	9,150	9,379	9,613	9,854
Water	\$	29,588	30,327	31,086	31,863	32,659	33,476	34,313	35,170	36,050	36,951	
Electricity	\$	0.75	-	-	-	-	-	-	-	-	-	
Grid	\$	-	-	-	-	-	-	-	-	-	-	
On-Site	\$	-	-	-	-	-	-	-	-	-	-	
Cooking Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Heating Fuel	\$	-	-	-	-	-	-	-	-	-	-	
Oil	\$	-	-	-	-	-	-	-	-	-	-	
Propane	\$	0.39	15,386	15,770	16,164	16,569	16,983	17,407	17,843	18,289	18,746	19,214
Wood	\$	-	-	-	-	-	-	-	-	-	-	
Electricity	\$	-	-	-	-	-	-	-	-	-	-	
Other	\$	-	-	-	-	-	-	-	-	-	-	
Cleaning	\$	1.50	59,175	60,655	62,171	63,725	65,318	66,951	68,625	70,341	72,099	73,902
Repairs	\$	0.15	5,918	6,065	6,217	6,373	6,532	6,695	6,863	7,034	7,210	7,390
Productivity Loss	\$	1%	14,794	15,164	15,543	15,931	16,330	16,738	17,156	17,585	18,025	18,475
Bussing	\$	5.00	197,251	202,182	207,237	212,418	217,728	223,171	228,751	234,469	240,331	246,339
RESOURCES	SUBTOTAL	\$ 52,863	54,185	55,539	56,928	58,351	59,810	61,305	62,838	64,409	66,019	
HUMAN	SUBTOTAL	\$ 277,138	284,066	291,168	298,447	305,908	313,556	321,395	329,430	337,665	346,107	
RESOURCES	Principal	\$ 386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	386,517	
RESOURCES	Interest	\$ 183,596	173,933	164,270	154,607	144,944	135,281	125,618	115,955	106,292	96,629	
BOND COST	Tax Income	\$ 36,900	37,823	38,768	39,737	40,731	41,749	42,793	43,863	44,959	46,083	
BOND COST	SUBTOTAL	\$ 607,013	598,273	599,555	580,862	572,192	563,547	554,928	546,335	537,769	529,230	
GRAND TOTAL	TOTAL	\$ 937,014	936,524	936,263	936,237	936,451	936,913	937,628	938,603	939,843	941,356	

Bond Amount: \$ 7,730,348
 Bond Term: 20
 Bond Rate: 2.5%
 Building Size: 38488
 Inflation Rate: 2.5%
 Value of Exist: \$ 1,500,000
 Total Project Cost: \$ 9,023,000
 State Building Aid: \$ 1,292,652 (limited by previous additions)

Barker Architects, PLLC

Table H

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Troy Elementary

		Life-Cycle Cost Analysis									
		Student Capacity 525									
	Year	1	2	3	4	5	6	7	8	9	10
Task		-	-	-	-	-	-	-	-	-	-
Division 0		-	-	-	-	-	-	-	-	-	-
Division 1		-	-	-	-	-	-	-	-	-	-
Division 2		-	-	-	-	-	-	-	-	-	-
Division 3		-	-	-	-	-	-	-	-	-	-
Division 4		-	-	-	-	-	-	-	-	-	-
Division 5		-	-	-	-	-	-	-	-	-	-
Division 6		-	-	-	-	-	-	-	-	-	-
Division 7		-	-	-	-	-	-	-	-	-	-
Division 8		-	-	-	-	-	-	-	-	-	-
Division 9		-	-	-	-	-	-	-	-	-	-
Division 10		-	-	-	-	-	-	-	-	-	-
Division 11		-	-	-	-	-	-	-	-	-	-
Division 12		-	-	-	-	-	-	-	-	-	-
Division 13		-	-	-	-	-	-	-	-	-	-
Division 14		-	-	-	-	-	-	-	-	-	-
Division 15		-	-	-	-	-	-	-	-	-	-
Division 16		-	-	-	-	-	-	-	-	-	-
	SUBTOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Water		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Grid		\$ 0.75	\$ 21,216	\$ 21,746	\$ 22,290	\$ 22,847	\$ 23,418	\$ 24,004	\$ 24,604	\$ 25,219	\$ 25,850
On-Site		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,496
Cooking Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heating Fuel		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oil		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Propane		\$ 0.40	\$ 11,315	\$ 11,598	\$ 11,888	\$ 12,185	\$ 12,990	\$ 12,802	\$ 13,122	\$ 13,450	\$ 13,786
Wood		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,131
Electricity		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SUBTOTAL	\$ 32,531	\$ 33,344	\$ 34,178	\$ 35,032	\$ 35,908	\$ 36,806	\$ 37,726	\$ 38,649	\$ 39,566	\$ 40,627
Cleaning		\$ 2.00	\$ 56,576	\$ 57,990	\$ 59,440	\$ 60,926	\$ 62,449	\$ 64,010	\$ 65,611	\$ 67,251	\$ 68,932
Repairs		\$ 0.20	\$ 5,658	\$ 5,799	\$ 5,944	\$ 6,093	\$ 6,245	\$ 6,401	\$ 6,561	\$ 6,725	\$ 6,893
Productivity Loss		\$ 1%	\$ 10,608	\$ 10,873	\$ 11,145	\$ 11,424	\$ 11,709	\$ 12,002	\$ 12,302	\$ 12,610	\$ 12,925
Bussing		\$ 5.00	\$ 141,440	\$ 144,976	\$ 148,600	\$ 152,315	\$ 156,123	\$ 160,026	\$ 164,027	\$ 168,127	\$ 172,331
	SUBTOTAL	\$ 214,281	\$ 219,638	\$ 225,129	\$ 230,757	\$ 236,526	\$ 242,440	\$ 248,501	\$ 254,713	\$ 261,081	\$ 267,608
RESOURCES		\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420	\$ 457,420
HUMAN		\$ 217,274	\$ 205,839	\$ 194,403	\$ 182,968	\$ 171,532	\$ 160,097	\$ 148,661	\$ 137,726	\$ 125,790	\$ 114,355
	PRINCIPAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Interest		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TAX INCOME		\$ 24,600	\$ 25,215	\$ 25,845	\$ 26,492	\$ 27,154	\$ 27,833	\$ 28,528	\$ 29,242	\$ 29,973	\$ 30,722
	SUBTOTAL	\$ 699,294	\$ 688,473	\$ 677,668	\$ 666,879	\$ 656,106	\$ 645,349	\$ 634,609	\$ 623,887	\$ 613,183	\$ 602,497
	TOTAL	\$ 946,106	\$ 941,456	\$ 936,976	\$ 932,669	\$ 928,540	\$ 924,595	\$ 920,836	\$ 917,269	\$ 913,900	\$ 910,731
	GRAND TOTAL	\$ 9,273,078									
	BOND COST										
	Bond Amount:	\$ 9,148,392	Bond Term: 20	Bond Rate: 2.5%	Building Size: 27598	Inflation Rate: 2.5%	Value of Exist: \$ 1,000,000	Total Project Cost: \$	\$ 15,496,000		
									\$ 8,367,840		

Table H
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Barker Architects, PLLC