# Master Planning

Many organizations recognize that master planning studies are a valuable management tool, and GreenAssociates has assisted many clients in developing these plans.

# The need for a Master Plan can be triggered by several issues:

a growth or change in manpower, new programs, or changes in the community. Other complex issues that put pressure on space needs include technological advancements; a need for additional services; and community requirements.

# A Master Plan should include the following:

- · List of All Services Offered
- · Role of technology
- Community Services Study
- Existing Space Usage
- · List of Existing and Desired Functional Areas
- Compilation of Adjacencies

From the above, a Master Plan will be developed that indicates the size and location of each space for the facility. These spaces are compared with planning guides and personal experience. The current building functional areas are compared with these, and a list of needs and desires is created.

The list of services desired by the community helps give direction to the plan. **This list of services is** helpful in shaping and directing community desires.

Finally, GreenAssociates recommends exploring the importance of the building in **serving the broader needs of the community at large.** In many areas, tax supported organizations are reviewing how their buildings can be better utilized by the diverse community who supports them.

The collected data will inevitably lead to what the present building needs in the way of space and what changes are necessary to better serve the public.





# 1: District Vision

- Collect and Document all Relevant Information
- District Strategic Plan
- Demographic Projections Provided by the District
- District Education Standards
- · School Improvement Plans
- · District Technology Plan
- · Community Discussion



# 2: Facility Assessment

- · Ten Year Life Safety Survey
- · Collaboration with District & Maintenance Staff
- Educational Environment Compared to Educational Program Standards



# 3: Needs and Solutions

- Compare Facility Assessment to District Vision
- Specific Facility Assessments:
   Life Safety / Building Condition /
   Life Expectancy of Equipment
- Comparison of Current Educational Environment to Projected Demographic Needs
- Proposed Solutions and Costs Estimations



# 4: Priorities & Implementation Schedule

- Priorities Determined on a Consensus Basis
- Community Engagement via Public Review Session
- · Establish Priority of Needs
- Implementation Schedule Developed



# 5: Communication

- Communicate Master Facility Plan to District
- District Involvement and Communication is Key
- Community Engagement.

### Phase 1 Documentation

- Executive Summary
- Meeting Minutes
- · Appendix of Referenced Documents

## Phase 2 Documentation

- Building Information
   Management Database
- Educational Program Matrix

## Phase 3 Documentation

- Expanded Building Information Management Database
- Expanded Educational Program Matrix
- Modified Building and Site Plans

## Phase 4 Documentation

- Refined Building Information
   Management Database:
   1-2 year, 5 Year, and 10 Year Time Frames
- · Master Project Schedule
- · Meeting Minutes

### **Final Documentation**

- The Final Documentation is in a Record Document of all Previous Developments
- Outline Presentation
   Suitable for Publication
- Final Building Information Management Database
- Final Educational Program Matrix
- Final Building and Site Plans
- · Master Project Schedule

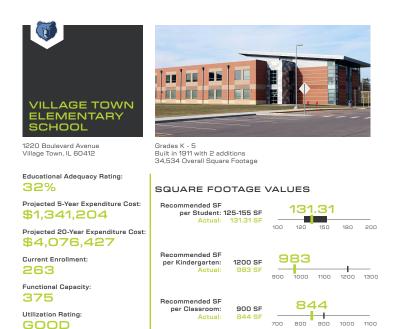


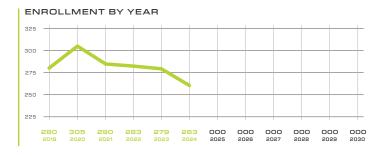


# Reports



			E
Room Number	Team/ Grade	Room/ Type	SF
B02	5TH GRADE BILINGUAL	CLASSROOM	797
B04	5TH GRADE	CLASSROOM	807
B06	5TH GRADE	CLASSROOM	802
B08	5TH GRADE	CLASSROOM	808
B10	4TH GRADE	CLASSROOM	802
B12	4TH GRADE	CLASSROOM	803
B15	4TH GRADE BILINGUAL	CLASSROOM	810
B17	4TH GRADE	CLASSROOM	803
C09	3RD GRADE	CLASSROOM	806
C11	4TH GRADE	CLASSROOM	802
C15	3RD GRADE	CLASSROOM	801
C17	3RD GRADE	CLASSROOM	804
C19	2ND GRADE	CLASSROOM	801
C21	2ND GRADE	CLASSROOM	803
C23	2ND GRADE	CLASSROOM	804
C25	3RD GRADE BILINGUAL	CLASSROOM	808
D01	1ST GRADE	CLASSROOM	798
D03	2ND GRADE	CLASSROOM	804
D07	KINDERGARTEN	CLASSROOM	1091











D11

D13

D15

D17

A17

B03

A23

C10

D16

E01

E02

E03

KINDERGARTEN

KINDERGARTEN

1ST GRADE

1ST GRADE

MUSIC

ART

ELL

MPR

SUPPORT

SERVICES INCLUSION/SPEE

CLINICIAL

INSTRUCTIONAL

INSTRUCTIONAL

LIFE SKILLS

LIFE SKILLS

ART



# Educational Adequacy ELEMENTARY SCHOOL



		Unsatisfactory	Poor		Good	Excellent	
		0	1	2	3	4	Comments
School Location	and Site						
Circulation/Traffic	Site is easily accessible and conveniently located					4	
Parking	Parking is adequate for staff and visitors				3		
Playgrounds	Adequate size and separated from street and parking			2			
Playfields	Adequate size and separated from street and parking			2			
Future Expansion	Logical area for future expansion			2			
Exterior Learning	Opportunities for outdoor			2		П	
Opportunities	learning areas	<u> </u>	ᆫ	Ľ	ᆫ	Ш	
Landscape	Site is well landscaped			2			
Sidewalk Route to School	Route to school is safe and direct				3		
Section Total						20	

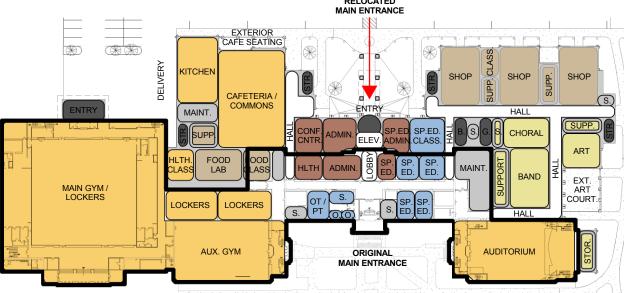


Recommendation Category	Estimated Cost and Recor				
	Year 5	Year 10	Year 15		
BUILDING SUPPORT SERVICES					
1.0 Building Interior	\$395,514	\$134,267	\$0		
2.0 Building Exterior and Site	\$506,488	\$5,686,142	\$91,782		
3.0 Heating, Ventilation, and Air Conditioning	\$699,985	\$7,020	\$0		
4.0 Plumbing	\$113,425	\$0	\$0		
5.0 Power and Lighting	\$74,386	\$9,641	\$0		
6.0 Electrical Systems	\$0	\$0	\$0		
7.0 Proposed Improvements	\$0	\$0	\$0		
Building Subtotal	\$1,789,798	\$5,837,071	\$91,782		
Additional 30% for Soft Costs and Contingencies*	\$2,326,738	\$7,588,192	\$119,316		
Additonal 5% Escalation Per Year	\$2,326,738	\$8,286,495	\$142,287		
CULBERTSON					
1.0 Building Interior	\$963,537	\$984,055	\$0		
2.0 Building Exterior and Site	\$1,321,405	\$909,194	\$247,686		
3.0 Heating, Ventilation, and Air Conditioning	\$31,525	\$0	\$0		
4.0 Plumbing	\$185,055	\$0	\$0		
5.0 Power and Lighting	\$144,001	\$0	\$0		
6.0 Electrical Systems	\$22,100	\$0	\$0		
7.0 Proposed Improvements	\$0	\$0	\$0		
Building Subtotal	\$2,667,622	\$1,893,249	\$247,686		
Additional 30% for Soft Costs and Contingencies*	\$3,467,909	\$2,461,224	\$321,992		
Additonal 5% Escalation Per Year	\$3,467,909	\$2,687,718	\$383,982		

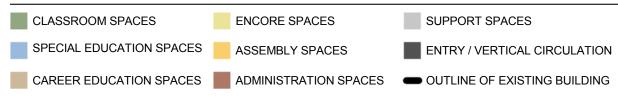


# Historical Restoration Case Study: Dixon Public School District 170





# Legend





Dixon CUSD 170 is a rural district with multiple aging buildings. GreenAssociates have been their architects for the past 25 years, and have continuously helped them maintain and improve their facilities as they were able.

During a recent Life Safety
Survey of their High School
facility, it was determined
that the magnitude of
the cost of the life safety
improvements to an
aging facility warranted
consideration of an entirely
new replacement building.

The district engaged
GreenAssociates to perform
a multi-year, District Wide
Master Plan. This included
engaging the district staff,
administration team, and
participating in community
engagement.

This culminated in the closing and consolidating of two schools, and forming a long range plan for the balance of the district buildings including the disposition of the high school building.

# **Program Summary of Space Requirements**

	EXISTING	ı	DRAF	T: 08.18.15		PROPOSED				
SPACE CATEGORY	Net Area sub-total (sq. ft.)	Net Area Subtotal (sq. ft.)	Total Spaces	Capacity @ 80% Utilization	Student Capacity 100%	Net Area Sub- total (sq.ft.)	Total Spaces			
1.0 ACADEMIC CORE COMMUNITIES	EXISTING	DRAFT 08.18.	15			PROPOSED				
1.01 Academic Core (M, E, SS)	14.643	18,400	16	307	384		19			
1.02 Science	5,802	7,000	6	115	144	7,243	6			
1.03 Student Support & Resource	6,373	6,200	2	38	48		2			
1.04 Teacher Centers	1,075	3,200	0	0	0		0			
Sub-Total:	27,893	34,800	24	460	576	37,815	27			
2.0 SPECIALTY PROGRAMS										
2.01 World Languages	1,264	2,100	2	38	48	2,535	2			
2.02 Special Ed Learning Environ.	7,414	8,800	7	56	70	10,110	7			
Sub-Total:	8,678	10,900	9	94	118	12,645	9			
3.0 CAREER EDUCATION										
3.01 CTE	6,046	12,000	5 2	96	120	12,800	5			
3.02 Foods/Nutrition Program 3.03 Entrepreneurial Program	1,145 661	2,900 2,700	2	38	48 48	3,215 2,954	2			
3.04 Multi-Media Communications	001	1,600	2	29	36	1,477	2			
Sub-Total:	7,852	19,200	11	201	252	20,446	11			
4.0 FINE & PERFORMING ARTS										
4.01 Visual Arts	1,817	2,000	1	19	24	2,050	1			
4.02 Performing Arts: Music	4,144	5,400	2	38	48	5,164	2			
4.03 Performing Arts: Theater	9,322	10,300	0	0	0					
Sub-Total:	15,283	17,700	3	57	72	16,536	3			
5.0 LIBRARY & TECHNOLOGY										
5.01 Library/Media Resources	3,781	4,500	0	0	0	4,780				
5.02 Technology Support	209	900	0	0	0	990				
5.03 Media Café/Student Activities	0	1,800	0	0	0	1,972				
Sub-Total:	3,990	7,200	0	0	0	7,742	0			
6.0 PE, HEALTH & ATHLETICS										
6.01 Physical Instruction	27,224	26,900	6	115	144	28,074	6			
6.02 PE Support	1,417	4,100	0	0	0	1,417				
6.03 Athletics Support  Sub-Total:	9,135	7,300	0	0 115	0 144	9,135 <b>38,626</b>	-			
Sub-Total:	37,776	38,300	ь	115	144	38,626	6			
7.0 ADMIN & STUDENT SERVICES										
7.01 Administration	2,881	2,400	0	0	0	2,100				
7.02 Guidance/Student Services	1,094	1,300	0	0	0					
7.03 College/Career Center	1.070	700	0	0	0	640				
7.04 Health Office 7.05 Teacher Center (centralized)	1,072 984	700 800	0	0	0					
7.06 Special Ed Administration	984	1,000	0	0	0	1,400				
7.07 Shared Conference Center	226	1,100	0	0	0	1,025				
Sub-Total:	6,257	8,000	0	0	0	7,895	0			
A A STUDENT COMMONS TRUNC										
8.0 STUDENT COMMONS/DINING	E 440	5,000				0.040				
8.01 Dining Commons 8.02 Kichen & Servery	5,116 2,926	5,000 3,000	0	0	0					
Sub-Total:	8,042	8,000	0	0	0		0			
	- 7.	.,				.,				
9.0 BUILDING SERVICES	-	0.055				105-1				
9.01 Custodial Support 9.02 Building Services	736 758	2,000 1.600	0	0	0	1,800 780				
Sub-Total:	1,494	3,600	0		0		0			
SUB-TOTALS:										
JUD-TUTALS.			(0				(n)			
	Net Area sub-total (sq. ft)	Net Area sub- total (sq. ft)	Total Spaces	Capacity @ 80% Utilization	Student Capacity 100%	Net Area sub- total (sq.ft.)	Total Spaces			
		147 700		027	1 160	154.004				
L		147,700	53	927	1,162	154,081	56			

Target Student Capacity = 900 Targer Utilization Rate = 80% Estimated Gross Area = 250,000 Estimated Net/Gross Area Percentage = 62%



# Facility Capacity Analysis Case Study: Community High School District 117



		Minnesota Guidelines		Illinois Guidelines		Semester 1			Semester 2			Both Se	mesters	Minnesota Guidelines	Illinois Guidelines	
Rm No.	Name / Space Function	Existing Room Area	Minnesota Guidelines Loading Factor	Minnesota Guidelines Rec. Max. Capacity	Illinois Guidelines Loading Factor	Illinois Guidelines Rec. Max. Capacity	Total Enrollment All Periods, Semester 1	Number of Periods Occupied for Instruction	Average Enrollment during Occupied Periods	Total Enrollment All Periods, Semester 2	Number of Periods Occupied	Average Enrollment during Occupied Periods	Average Number of Periods Occupied for Instruction	Average Enrollment during Occupied Periods	Average Enrollment Under or Over Rec. Max. Capacity	Average Enrollment Under or Ove Rec. Max. Capacity
	Classroom / General															
C102	World Languages	770	34	23		26			26.1	180	7	25.7	7.0			Under
C103	World Languages	770	34	23	30	26	187	8	23.4	191	8	23.9		23.6	Over	Under
C104	World Languages	770	34	23		26			22.2	143	6	23.8		23.0		Under
C105	World Languages	750	34	22	30	25	155	7	22.1	151	7	21.6	7.0	21.9	Under	Under
C108	World Languages	770	34	23		26		5	26.4	133		26.6	5.0			Over
C109	World Languages	770	34	23		26			23.7	142		23.7	6.0	23.7		Under
C117	Social Studies	770	34	23		26			24.3	138		23.0	6.0	23.7		Under
C118	Social Studies	770	34	23		26			23.6	158	7	22.6	7.0	23.1		Under
C121	Social Studies	750	34	22		25			26.6	191	7	27.3	7.0	26.9		Over
C122	Social Studies	770	34	23		26			24.2	141	6	23.5	6.0	23.8		Under
C123	Social Studies	770	34	23		26			23.5	140		23.3	6.0	23.4		Under
C124	Social Studies	770	34	23		26			24.5	193		24.1	8.0	24.3		Under
C201B	Science, Drivers Ed	770	34	23		26			21.0	79		19.8	4.0	20.4		Under
C235A	Math	874	34	26		29			21.8	109		21.8	5.0			Under
C235B	Math	770	34			26			17.8	100		16.7	6	17.3		Under
C302	English	770	34	23		26			24.4	184		23.0	7.5	23.7		Under
C305	English	750	34			25			24.4	177		25.3	7.5	24.8		Under
C306	English	755	34	22		25			25.0	162		23.1	7	24.1		Under
C307	English	770	34	23		26			25.3	179		25.6	7	25.4		Under
C308	English	770	34	23	30	26	199	8	24.9	197	8	24.6	8	24.8	Over	Under

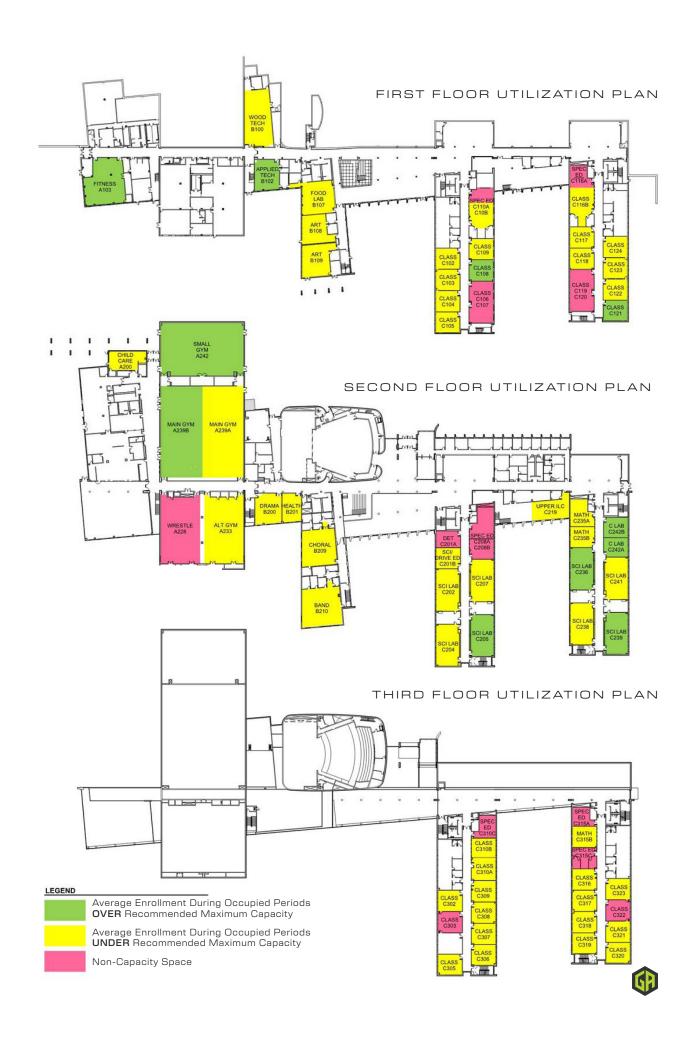
# Community High School District 117 engaged GreenAssociates to perform a Facility Capacity Analysis Study of one of their two high schools.

The state of Illinois does not offer standards for school and classroom design, so we analyzed their space using the interpretation of classroom space as defined by the Minnesota Guide for Planning and School Construction. This allows for more flexible classroom space, and moveable furniture for small and large group learning activities.

We identified all of their instructional spaces and their function, assigned them a load factor based on their educational program, and proceeded to identify their gross and functional capacity for the school. It was determined that the current enrollment exceed the Minnesota guidelines for functional capacity, but were slightly below the maximum capacity as defined by the state of Illinois. This hybrid approach to space planning showed room for growth in Drama, Music, Art, Career & Tech Ed, and Special Ed classrooms. It also determined that the Science classrooms were over functional capacity, and the ILC being used as classroom space was less than ideal.

This study helped the district decide how their space could be better utilized, as well as helping them with planning for future enrollment growth.





# Experience

# Benjamin School District 25

Dr. Jim Woell, Superintendent 28W250 St. Charles Road West Chicago, Illinois 6018 630-876-7800 jwoell@bendist25.org 2016 • Long Range Planning

# Community High School District 117

Ms. Aryan Haren
Superintendent of Business, CSBO Administration
847-838-7268 aryan.haren@chsd117.org
Mr. Ken Mlincsek
Facilities Manager
847-838-7174 kenneth.mlincsek@chsd117.org
1625 Deep Lake Road Lake Villa, IL 60046
2016 • Facility Capacity Analysis

#### Dixon Public School District 170

Mr. Kevin Schultz
Director of Buildings and Grounds
1335 Franklin Grove Road
Dixon, Illinois 61021
815-373-4966 kschultz@dps.k12.il.us
2015 • Long Range Master Planning

#### **Gower School District 62**

Dr. Victor Simon, Superintendent 7700 Clarendon Hills Road Willowbrook, Illinois 60527 630-986-5383 vsimon@gower62.com 2011-22 • District Master Planning

#### Joliet School District 86

Dr. Matt Wilkinson
Assistant Superintendent for
Business & Financial Services
420 N Raynor Avenue Joliet, IL 60435
815-740-3196 mwilkinson@joliet86.org

# Lake Forest Elementary School District 67

Ms. Jennifer Hermes
Chief Operating Officer of Business Services K-12
300 South Waukegan Road
Lake Forest, Illinois 60045
847-604-7402 jhermes@lfschools.net
2017 • Learning Spaces Planning

### Mundelein School District 75

Ms. Cathy Johnson
Assistant Superintendent of Finance & Operations
470 North Lake Street, Mundelein, Illinois 60060
847-949-2200 x1231 cjohnson@d75.org
2019 • Capital Planning

# North Chicago Community Unit School District 187

2014 • Facilities Assessment Report

Mr. Greg Volan
Director of Finance and Operation
2000 Lewis Avenue
North Chicago, Illinois 60064
847-689-8150 jprice@d187.org
2019 • Master Facilities Plan

# Ottawa Elementary School District 141

Mr. Cleve Threadgill
Superintendent
320 West Main Street, Ottawa, IL 61350
815-433-1133 cthreadgill@d141.lasall.k12.il.us
815-433-1133 mlee@oes141.org
2018 • Facility Assessment and Maintenance Plan

## Skokie School District 73.5

Ms. Karen Hayes
Interim Chief School Business Official / Operational
Services Coordinator
8000 East Prairie Road, Skokie, IL 60076
847-676-8317 khayes@sd735.org

2022 • Facility Master Plan

2015 • School Capacity Study

Concept Planning

