



Agenda



Part 1 – Current Assessments

- ✓ Purpose & Goals
- ✓ Enrollment Analysis
- ✓ Building Capacity Analysis
- ✓ Renovation Costs / Approach
- ✓ Building Evaluations

Part 2 – Proposed Planning

- ✓ Costs / Upgrades to Current Standards
- ✓ Facility Options / Option Costs
- ✓ Financial Discussion
- ✓ Schedule / Decision Making







Introduction:

- ✓ This report should be viewed as a starting point, or benchmark
- This report provides a framework from which both a short and long term facilities master plan can be implemented for any recommended or desirable facility improvements.
- ✓ The essence of the long range master plan will be to determine the number, type and location of school facilities that will be needed during the next decade and beyond.



Enrollment



How is enrollment projected?

What are the different methods of projecting enrollment?

What are the trends within the district?

What is a reliable projection?

Upper Adams SD / K – 12 Student Population Trend:

What is the District's K-12 Student Population Trend?

(162)	student DECR	EASE overall I	between 2000 t	o 2015.				
Upper Ad	lams School Di	istrict	1990	1995	2000	2005	2010	2015
District's	Total K-12 Stu	dents	1,715	1,732	1,827	1,827	1,681	1,665
public enroll	ment only			17	95	-	(146)	(16)
increase/deo	crease from previous	s period:		1.0%	5.5%	0.00%	-7.99%	-0.95%
per year:					1.10%	0.00%	-1.60%	-0.32%
	2000 and 2015,					-8.9%		
Student P	opulation has de	creased in th	ne last fifteen (*	15) years how	wever the ' <i>r</i> a	te of decreas	e' has slowed	

Enrollment



Historic Trends -

✓ Consistent decrease in the student population over last several years

Local (District) and District K-12 Population Trends:

How does the Local (District) and District K-12 population compare with 2020 projections ?

Methodology Analysis A - Percentage of students to Local (District) population

In five (5) y	ears from 2010 to 2015, the d	istrict popula	tion trend de	creased from	n 15.4% stud	lents	
per popula	tion to 14.4% students. Contir	nuing this dec	lining percen	tage ratio to	project futur	e enrollment,	
this chart p	projects 2020 and 2025 enrolln	nent that is cl	lose to the Pa	a Dept of Edu	ucation proje	ections.	
HISTORIC	CAL TREND - PROJECTION	METHOD				Projections	Projections
		2000	2005*	2010	2015*	2020	2025*
District Total Population		10,193	10,545	10,897	11,570	12,244	13,046
	increase from previous decade	ľ	3.5%	3.3%	6.2%	12.4%	12.8%
District To	otal K-12 Students	1,827	1,827	1,681	1,665	1,641	1,618
			-	(146)	(16)	(40)	(47)
rate of inci	rease/decrease from prev. interval		0.0%	-8.0%	-1.0%	-2.4%	-2.8%
stud	dent increase / decrease per year		0.00%	-1.60%	-0.19%	-0.24%	-0.28%
% Studen	nts per Population	17.9%	17.3%	15.4%	14.4%	13.4%	12.4%
			-0.6%	-1.9%	-1.0%	-1.0%	-1.0%
Note: The av	erage percentage of students for a ty	ypical Pennsylv	ania population	is approx. 14%	, D		
					2010-2015	(5) year average	14.9%
* district pop	ulation numbers = estimated / interp	olated			annual de	cline 2010-2015	0.21%

Enrollment



Historic Trends -

✓ Consistent decrease in the student population percentage over last several years

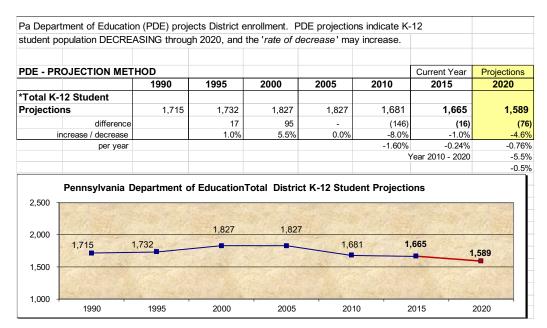
✓ Continuing this declining percentage ratio, 2020 & 2025 projections dictate enrollment projections similar to PDE's projections

✓ PDE 2020 projection = 1,589 difference of 52 students – the equivalent of two (2) classrooms district wide

District K-12 Population Trends:

How does the Local (District) and District K-12 population compare with 2020 projections ?

Methodology Analysis B - Pa Department of Education Projections



Enrollment



Projections -

 ✓ Methodology B - % of students to Local (District) population -2020 = 1,589

District K-12 Population Trends – Current Grade Groupings:

What are Student Enrollment Trends and Projections for the Current Grade Groupings?

							% Students	% Students
% BASE	BASED - PROJECTION METHOD % Students Projections % Students Projections 1995 2000 2005 2010 2015 2020 2025 al K-12 Enrollment 1,732 1,827 1,681 1,665 1,641 1,618 B Enrollment 544 566 513 536 498 507 500 difference 22 (53) 23 (38) 9 (7) increase / decrease 4.0% -9.4% 4.5% -7.1% 1.8% -1.4% Students 31.4% 31.0% 28.1% 31.9% 29.9% 30.9% 30.9%							
		1995	2000	2005	2010	2015	2020	2025
Total K-12	2 Enrollment	1,732	1,827	1,827	1,681	1,665	1,641	1,618
K-3 Enro	llment	544	566	513	536	498	507	500
	difference		22	(53)	23	(38)	9	(7)
in	crease / decrease		4.0%	-9.4%	4.5%	-7.1%	1.8%	-1.4%
% Stude	nte	31 /%	31.0%	28.1%	31.0%	20 0%	30.0%	30.0%
/o Oluuei		51.470	51.078	20.178	51.576	23.370	50.578	50.570
The chart	uses the 5 year av	erage 30.9%	to project the	e Grade K-3	Enrollment in	n the year 20)25 to reflect th	ne
slight deci	rease in the percer	ntage of Grad	e K - 3 Stude	ents.		-		

					% Students	% Students
CTION METHOD					Projections	Projections
1995	2000	2005	2010	2015	2020	2025
t 1,732	1,827	1,827	1,681	1,665	1,641	1,618
397	450	391	352	376	357	352
rence	53	(59)	(39)	24	(19)	(5)
ease	13.4%	-13.1%	-10.0%	6.8%	-5.0%	-1.4%
22.9%	24.6%	21.4%	20.9%	22.6%	21.8%	21.8%
	t 1,732	1995 2000 t 1,732 1,827 397 450 53 pase 13.4% 13.4%	t 1,732 1,827 1,827 397 450 391 rence 53 (59) pase 13.4% -13.1%	1995 2000 2005 2010 t 1,732 1,827 1,827 1,681 397 450 391 352 rence 53 (59) (39) pase 13.4% -13.1% -10.0%	1995 2000 2005 2010 2015 t 1,732 1,827 1,827 1,681 1,665 sence 53 (59) (39) 24 sease 13.4% -13.1% -10.0% 6.8%	CTION METHOD Projections 1995 2000 2005 2010 2015 2020 t 1,732 1,827 1,827 1,681 1,665 1,641 397 450 391 352 376 357 rence 53 (59) (39) 24 (19) pase 13.4% -13.1% -10.0% 6.8% -5.0%

Enrollment



Projections – K -3, 4 – 6 (5 year average)

✓ Student Enrollment trends as a percentage of Total K-12 Enrollment projects enrollment for 2020 and 2025

District K-12 Population Trends – Current Grade Groupings:

What are Student Enrollment Trends and Projections for the Current Grade Groupings ?

	METHOD					% Students	% Students
% BASED - PROJECTION	NMETHOD					Projections	Projections
	1995	2000	2005	2010	2015	2020	2025
Total K-12 Enrollment	1,995	2,000	2,005	2,010	2,015	2,020	2,025
7-8 Enrollment 290		290	316	250	265	258	259
difference		-	26	(66)	15	(7)	1
increase / decrease		0.0%	9.0%	-20.9%	6.0%	-2.5%	0.2%
% Students	14.5%	14.5%	15.8%	12.4%	13.2%	12.8%	12.8%
The chart uses the 5 year av	verage 12.8%	to project th	e Grade 7-8	Enrollment	in the year 20	25 to reflect th	e
slight increase in the percer	ntage of Grade	e 7 - 8 Stude	ents.				

						% Students	% Students
% BASED - PROJECT	ON METHOD					Projections	Projections
	1995	2000	2005	2010	2015	2020	2025
Total K-12 Enrollment	1,995	2,000	2,005	2,010	2,015	2,020	2,025
9-12 Enrollment	501	521	607	543	526	537	538
difference		20	86	(64)	(17)	11	1
increase / decrease	9	4.0%	16.5%	-10.5%	-3.1%	2.0%	0.2%
% Students	25.1%	26.1%	30.3%	27.0%	26.1%	26.6%	26.6%
The chart uses the 5 year	2000000 26 69	/ to project th	o Grado 0 1	2 Eprollmon	t in the year 2	0.25 to reflect	the
slight decrease in the pe	0				it in the year 2		

Enrollment



Projections - 7 – 8, 9 – 12 (5 year average)

✓ Student Enrollment trends as a percentage of Total K-12 Enrollment projects enrollment for 2020 and 2025

5 Year Average

Total 2020 Projected Enrollment = 1,659

PDE

Total 2020 projected Enrollment = 1,589





How many students can each building accommodate?

Is there adequate space for support programs?

Are there collaborative learning environments?

Do we have room to grow and offer new programs?

Building Capacity as it relates to Enrollment Projections – by Grade Group



What is the capacity of existing buildings based on Current Use of Space ?

					. <u> </u>									
Capacity of Existing E	Buildings b	ased on CU	RRENT Use	e of Space										
K - 3 Elementary Scho	ool													K - 3
		1	Jtilization Rat	e	Utilization Rate	. L	Itilization Ra	te	Utilization Rate	ι	Itilization Rat	te L	Itilization Rat	e
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current	Per % Local	Per % Local	Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity*	Enrollment	Enrollment	2020 Pop	2020 Pop	Rates	Rates	per Total K-12	per Total K-12	Projection	Projection	Projection	Enrollment	Required ?
Biglerville ES	550	498	91%	491	89%	493	90%	507	92%	489	89%	448	81%	Yes
	550	498	91%	491	89%	493	90%	507	92%	489	89%	448	81%	Long Term
Capacity Available	***	52		59		57		43		61		102		Yes
4 - 6 Intermediate Sch	nools													4 - 6
		L 1	Jtilization Rat	e	Utilization Rate	. L	Itilization Ra	te	Utilization Rate	ι	Itilization Rat	te L	Itilization Rat	e
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current	Per % Local		Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity	Enrollment		2020 Pop	2020 Pop	Rates	Rates		per Total K-12				Enrollment	Required ?
Arendtsville ES	225	202	90%	199	88%	200	89%	192	85%	198	88%	209	93%	Yes
Bendersville ES	175	174	99%	171	98%	172	98%	165	94%	171	98%	180	103%	
	400	376	94%	371	93%	372	93%	357	89%	369	92%	389	97%	Long Term
Capacity Available	***	24		29		28		43		31		11		Yes
7 - 12 Middle / High So	chool													7 - 12
		i	Jtilization Rat	e	Utilization Rate	. L	Itilization Ra	te	Utilization Rate	L	Itilization Rat	te L	Itilization Rat	е
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current	Per % Local		Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity	Enrollment		2020 Pop	2020 Pop	Rates	Rates		per Total K-12				Enrollment	Required ?
Middle / High School	940	791	84%	779	83%	783	83%	795	85%	777	83%	752	80%	No
	940	791	84%	779	83%	783	83%	795	85%	777	83%	752	80%	Long Term
Capacity Available	***	149		161		157		145		163		188		No**
Total Enrollment		1,665		1,641		1,648		1,659		1,636		1,589		

Building Capacity -

✓ Based on four (4) methodologies analyzed to project District K-12 enrollments

✓ Utilization rates dictate how full a respective building is with regard to enrollment vs current building capacity

✓ PDE model which utilizes 25 students per classroom for reimbursement calculations

	lementary Scho	loc					_	
			1	Utilization Rat	e	Utilization Rate		
		Current	Current	% Full	Enrollment	% Full		
		Bldg	2/2016	Current	Per% Local	Per % Local		
	School	C apa city*	Enrollment	Enrollment	2020 Pop	2020 Pop		
Bigle	erville ES	550	498	91%	491	89%	-	
		550	498	91%	491	89%		91%
Car	acity Available	***	52		59			01/0
							-	
- 6 In	ntermediate Sch	ools					-	
			1	Utilization Rat	e	Utilization Rate	-	
		Current	Current	% Full	Enrollment	% Full	-	
		Bldg	2/2016	Current	Per% Local	Per % Local		
	School	Capacity	Enrollment	Enrollment	2020 Pop	2020 Pop		000/
Aren	ndts ville ES	225	202	90%	199	88%		90%
Ben	dersville ES	175	174	99%	171	98%		000/
								99%
		400	376	94%	371	93%	-	
Car	acity Available		24	0170	29	0070	-	
Uqu	acity Available		24		23		-	
- 121	Middle / High So	chool					-	
	and any ringh of			Utilization Rat	e	Utilization Rate	-	
		Current	Current	% Full	Enrollment	% Full	-	
		Bldg	2/2016	Current		Per % Local		
	School	Capacity	Enrollment	Enrollment	2020 Pop	2020 Pop		
		940	791	84%	779	83%	·	84%
Mide	dle / High School		1					04 70
Midd	dle / High School							
Mido	dle / High School	940	791	84%	779	83%	-	
	-			84%		83%	- '	
	dle / High School		791 149	84%	779 161	83%	- ⁻ -	



Building Capacity - CURRENT

✓ Biglerville, Arendtsville, Bendersville ES - ALL are at maximum utilization

Building Capacity as it relates to Enrollment Projections – by Grade Group



What is the capacity of existing buildings based on Planned Use of Space ?

Capacity of Existing B	uildinas b	ased on PL	ANNED Use	of Space				ĺ						
K - 3 Elementary Scho	•			0. 00000										K - 3
··· · · · · · · · · · · · · · · · · ·		1 1	Jtilization Rat	e	Utilization Rate		Jtilization Rat	te	Utilization Rate	L L	Jtilization Rat	te l	Jtilization Rate	9
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current	Per % Local	Per % Local	Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity*	Enrollment	Enrollment	2020 Pop	2020 Pop	Rates	Rates	per Total K-12	per Total K-12	Projection	Projection	Projection	Enrollment	Required ?
Biglerville ES	650	498	77%	491	75%	493	76%	507	78%	489	75%	448	69%	NO
THE ADDITION OF (4)														
GENERAL CLRMS	650	498	77%	491	75%	493	76%	507	78%	489	75%	448	69%	Long Term
Capacity Available		152		159		157		143		161		202		NO
4 - 6 Intermediate Sch	ools													4 - 6
			Jtilization Rat	-	Utilization Rate		Jtilization Rat		Utilization Rate		Jtilization Ra		Jtilization Rate	
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current		Per % Local	Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity	Enrollment	Enrollment	2020 Pop	2020 Pop	Rates	Rates		per Total K-12		-	Projection		Required ?
Arendtsville ES	275	202	73%	199	72%	200	73%	192	70%	198	72%	209	76%	Yes
Bendersville ES	225	174	77%	171	76%	172	77%	165	73%	171	76%	180	80%	
THE ADDITION OF (4)														
GENERAL CLRMS	500	376	75%	371	74%	372	74%	357	71%	369	74%	389	78%	Long Term
Capacity Available		124		129		128		143		131		111		Yes
7 - 12 Middle / High So	chool													7 - 12
		ι	Jtilization Rat		Utilization Rate		Jtilization Rat		Utilization Rate		Jtilization Rat		Jtilization Rate	
	Current	Current	% Full	Enrollment	% Full	2020	% Full	2020 Enroll	% Full	2020	% Full	PDE	% Full	Additional
	Bldg	2/2016	Current		Per % Local	Annual	Annual	% Students	% Students	Cohort	Cohort	2020	PDE 2020	Space
School	Capacity	Enrollment	Enrollment	2020 Pop	2020 Pop	Rates	Rates		per Total K-12					Required ?
Middle / High School	940	791	84%	779	83%	783	83%	795	85%	777	83%	752	80%	No
	940	791	84%	779	0.20/	783	83%	795	85%	777	83%	752	80%	Lana Tama
	940	-	04%	-	83%		03%		03%		03%	-	00%	Long Term
Capacity Available		149		161		157		145	ļ	163		188		No**
Total Enrollment		1,665		1,641		1,648		1,659		1,636		1,589		

Building Capacity -

✓ Based on four (4) methodologies analyzed to project District K-12 enrollments

✓ Utilization rates dictate how full a respective building is with regard to enrollment vs current building capacity

K - 3 Elementary Scho	ol					
		l	Jtilization Rat	e	Utilization Rate	
	Current	Current	% Full	Enrollment	% Full	
	Bldg	2/2016	Current	Per % Local	Per % Local	
School	Capacity*	Enrollment	Enrollment	2020 P op	2020 Pop	
Biglerville ES	650	498	77%	491	75%	
THE ADDITION OF (4)						
GENERAL CLRMS	650	498	77%	491	75%	77%
Capacity Available		152		159		
4 - 6 Intermediate Sch	ools					
		L	Jtilization Rat	e	Utilization Rate	
	Current	Current	% Full	Enrollment	% Full	
	Bldg	2/2016	Current	Per % Local	Per % Local	
School	Capacity	Enrollment	Enrollment	2020 Pop	2020 Pop	
Arendts ville ES	275	202	73%	199	72%	
Bendersville ES	225	174	77%	171	76%	
THE ADDITION OF (4)						
GENERAL CLRMS	500	376	75%	371	74%	75%
Capacity Available		124	15/6	129	1-474	J)/0
		124		129	ļ	
7 - 12 Middle / High So	chool					
		1	Jtilization Rat	e .	Utilization Rate	
	Current	Current	% Full	Enrollment	% Full	
	Bldg	2/2016	Current	Per % Local	Per % Local	
School	Capacity	Enrollment	Enrollment	2020 P op	2020 Pop	
Middle / High School	940	791	84%	779	83%	
	940	791	84%	779	83%	
Capacity Available		149		161		

Building Capacity

Building Capacity - PLANNED

✓ With the addition of just four (4) general classrooms in the elementary buildings in a planned use of space significantly drops the utilization rates



Renovation Costs



Facility Study level estimates for planning and decision

CRA Historical cost data

Compliance with building codes

Expectation to meet current construction standards to qualify for reimbursement – 20 year cycle

Board controls cost of the project based upon approved scope of work



Base Line Renovation Costs

• Purpose of establishing **Base Line**

Develop an understanding of the work required to bring existing school facilities up to current construction standards – Pa Dept. of Education

- Qualify for potential state reimbursement (20 Year cycle)
- Develop systematic approach to Study
- Identify Guiding Principles
- Comprehensive Renovations Throughout
 - Building Systems; HVAC, Electrical, Plumbing, Technology
- Apples to Apples comparison for all school buildings

Base Line Renovation Costs **DO NOT** address: Additional Building Area for Educational Program/Capacity **Comprehensive SCOPE** VS. **Scope determines budget EXAMPLES: Building reorganization New Ed Program additions** Address ALL site work items **Interior finishes Replace ALL:** Casework **Bldg.** Envelope **Replace ALL Mechanical/Elec. Systems 4 Pipe System** Preferred ATC Controls **Fully Air Conditioned New Lighting Fixtures** Lower Operating Costs

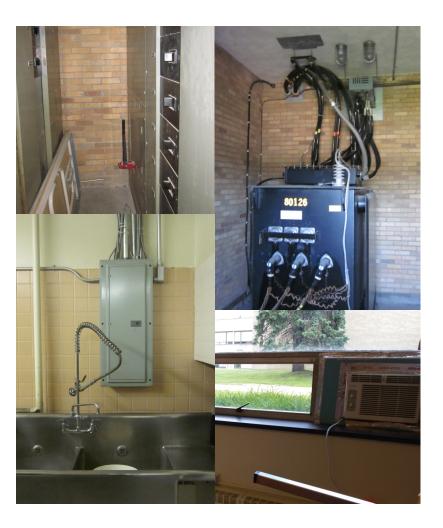
Reduced SCOPE Budget determines scope

Maintain current organization Minor/ No new additions Prioritize LDP approval Reduced replacement of finishes Limited area Prioritize by budget Upgrade Mechanical Systems 2 Pipe or VAV System Basic ATC Controls Limited Air Conditioning Retrofit Existing Lighting Higher Operating Costs

Renovation Costs & Approach







Base Line Renovation Costs

Influencing factors

- Scope of Work, i.e. HVAC system selection
- Scale of the project
- Timing of the project
- Duration of the project; phasing etc.
- Building / Municipal Requirements
- Equity among buildings
- Other ?

Detailed written reports contained within the study

Building Evaluations

What is the current physical condition of each of the District buildings and assessment of site location?

Site Assessment*

Scale : 1 – Poor; 3 – Fair; 5 - Good

	Arendtsville ES	Bendersville ES	Biglerville ES	MS/HS
General Condition	5	3	5	5
Site Circulation	4	2	4	4
Entrance / Access	4	3	3	4
Parking	3	1	3	4
Site Size**	5 (16.5/1	3) 1 (4.5/12)	5 (88/16) 4 (35/45)
Expansion Capability	5	1	5	3
Total average				
SITE assessment	4.3	1.8	4.2	4

*This site/building evaluation chart reflects a similar facility appraisal process as developed by the Council of Educational Facilities Planners International

** (actual site acreage / optimal acreage per PDE guidelines) – typical all site sizes listed above

Building Evaluations



Building Site Assessments -

✓ Based on six (6) criteria analyzed to project total site condition ranging from poor to good

✓ Subjective assessments

✓ Detailed written reports documenting conditions

Building Evaluations

What is the current physical condition of each of the District buildings and assessment of site location?

Building Condition

Scale : 1 – Poor; 3 – Fair; 5 - Good

	Arendtsville ES	Bendersville ES	Biglerville ES	MS/HS
Building Identity	4	4	4	4
Roof	3	3	5	4
Storefront Entrances	2	2	5	4
Windows	2	2	4	4
Energy Efficiency	3	3	4	4
Exterior Wall	3	3	4	5
Structural Integrity	4	4	4	5
Exterior Environment	3	3	4.3	4.3
Educational Adequacy	3	3	4	4
Classroom/Core Size	2	2	4	4
ADA/Toilet	2	2	5	4
Finishes	3	3	5	4
Floors/Ceilings	3	3	5	4
Furnishings/Equip	3	3	5	4
<u>Structural Integrity</u>	4	4	5	5
nterior Environment	2.9	2.9	4.7	4

*This site/building evaluation chart reflects a similar facility appraisal process as developed by the Council of Educational Facilities Planners International

Building Evaluations



Building Condition Assessments -

✓ Based on criteria analyzed to project total building condition ranging from poor to good

✓ Subjective assessments

Building Evaluations

What is the current physical condition of each of the District buildings and assessment of site location?

Arendtsville ES

Building Systems

Scale : 1 – Poor; 3 – Fair; 5 - Good

Building Evaluations



Building Condition Assessments -

✓ Based on criteria analyzed to project total building condition ranging from poor to good

✓ Subjective assessments

Mechanical / HVAC	4	4	4	5
Plumbing	3	3	4	4
Electrical	3	3	4	5
Building Systems	3.3	3.3	4	4.7
Total average				
Bldg Condition				
Assessment	3.1	3.1	4.3	4.3

Bendersville ES

Biglerville ES

MS/HS

*This site/building evaluation chart reflects a similar facility appraisal process as developed by the Council of Educational Facilities Planners International

Enrollment Assessment What number to plan for? Enrollment & Building Capacity Analysis Identify where space is needed Educational Program Determine if new additions are needed Assemble **Cost** Estimates Review Preliminary Options Discuss timeline for decision making

Purpose of the Study is to Prioritize Projects and develop a schedule which meets the Districts financial expectations





