Spatial and Programming Analysis of 7-12 Jr/Sr High School

Presentation for the

Huntingdon Area School District



Our Charge

Provide Huntingdon School District with an analysis of existing building utilization patterns.

Assist with development of desired educational specification.

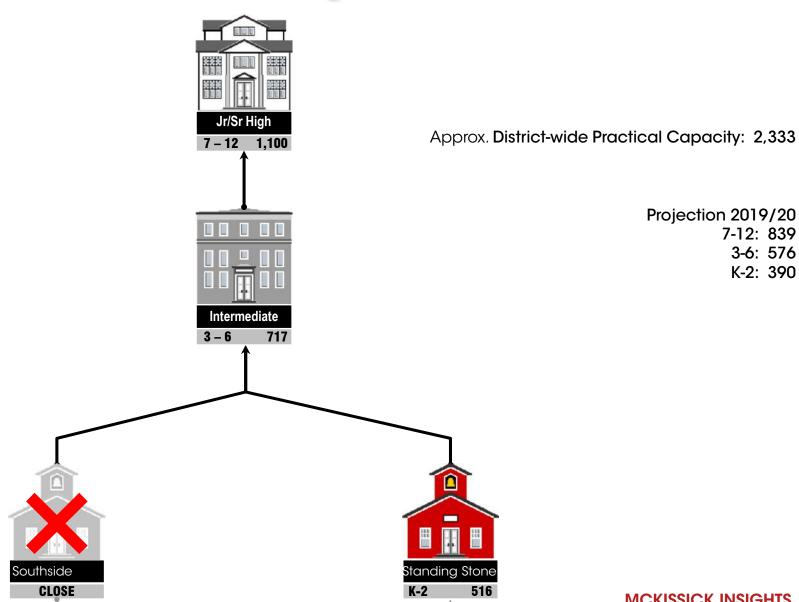
Establish baseline 7-12 scenario within existing high school building.

Consider opportunities to repurpose and reconfigure limited areas as a way to enhance the district's ability to foster 21st century learning and provide areas for collaboration.

Provide a final presentation and provide support for ongoing discussions.

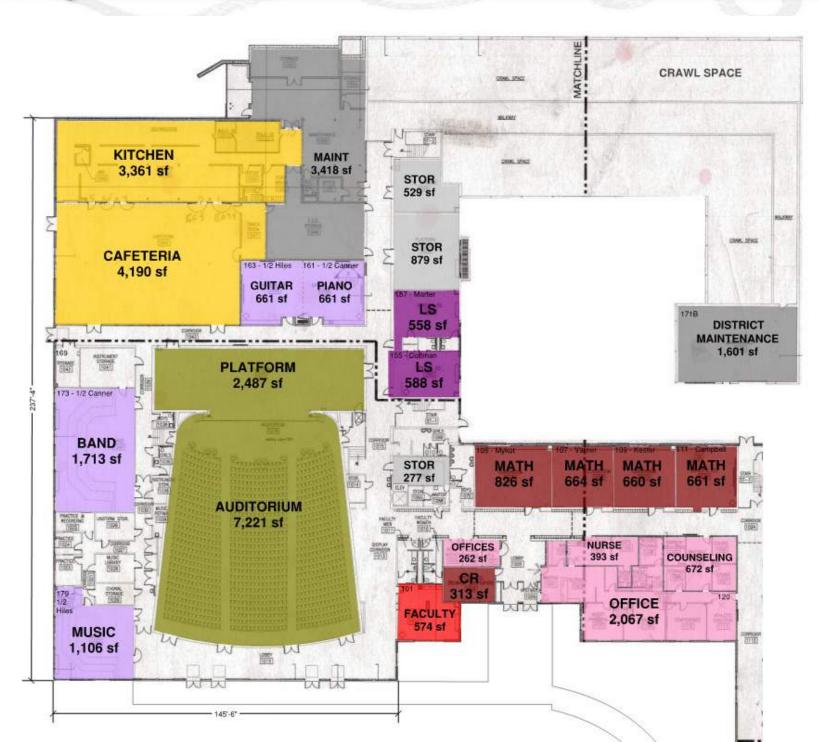
7-12: 839 3-6: 576 K-2: 390

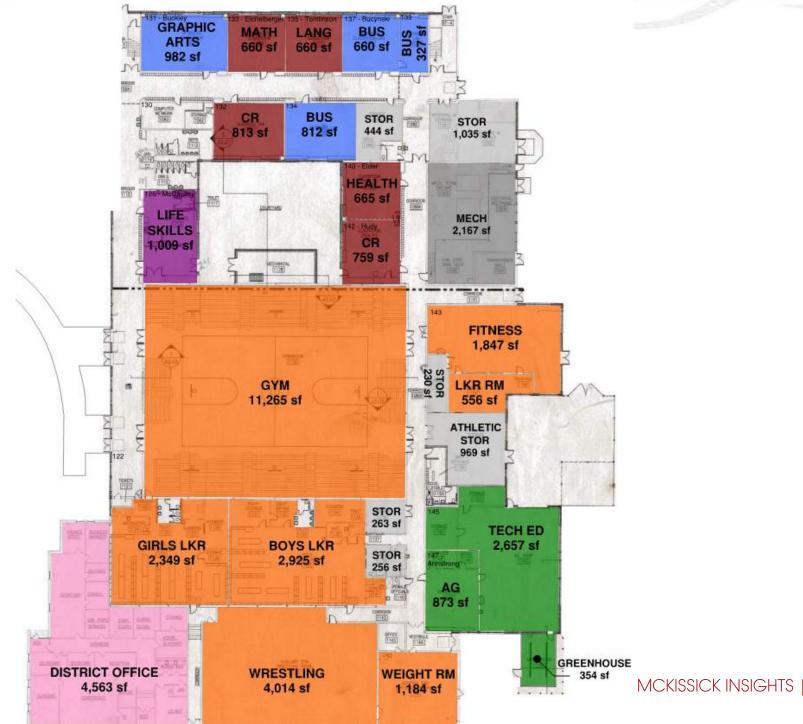
Option #3A: Close Southside and Re-align Grades to K-2, 3-6, 7-12



Current High School Use

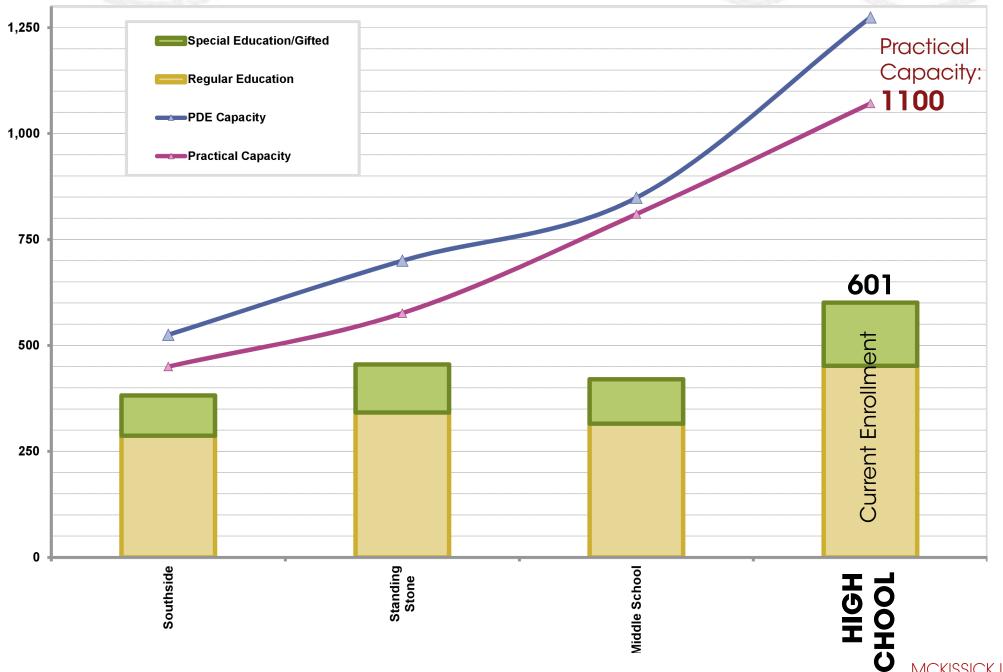




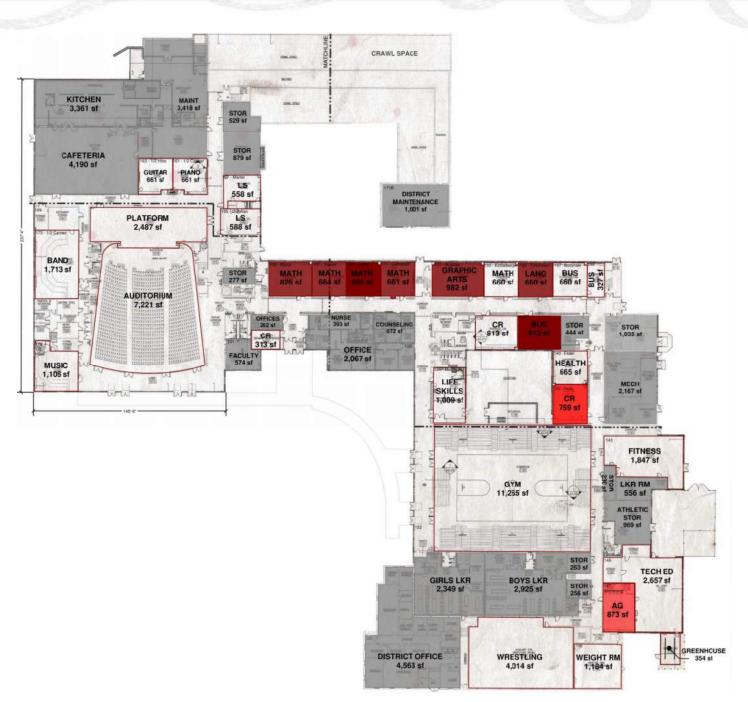


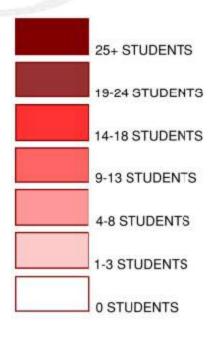


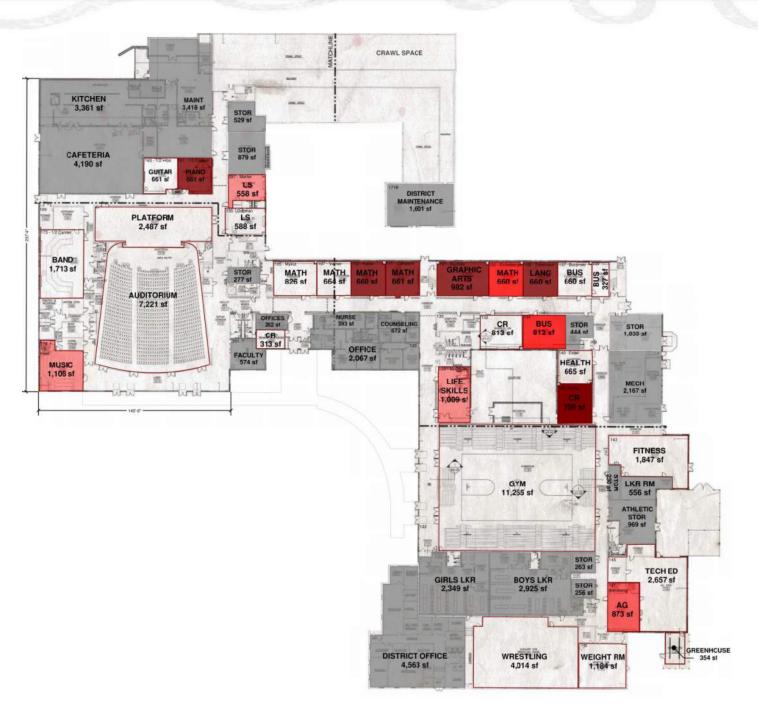
Capacity Versus Enrollment Graph

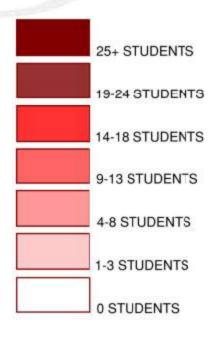


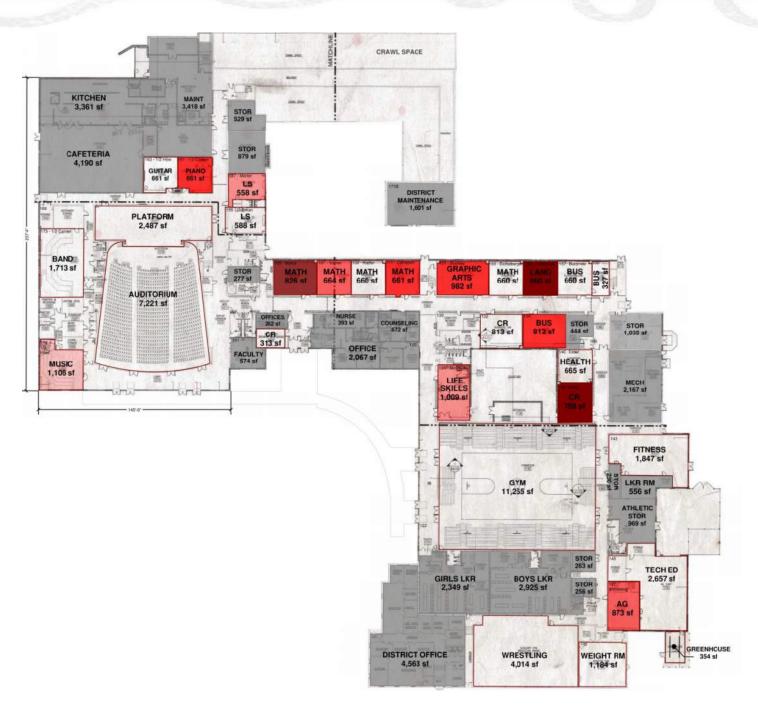
First Floor, Homeroom

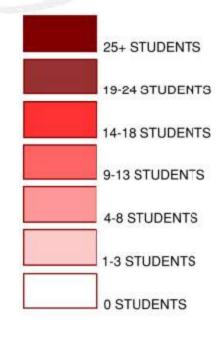


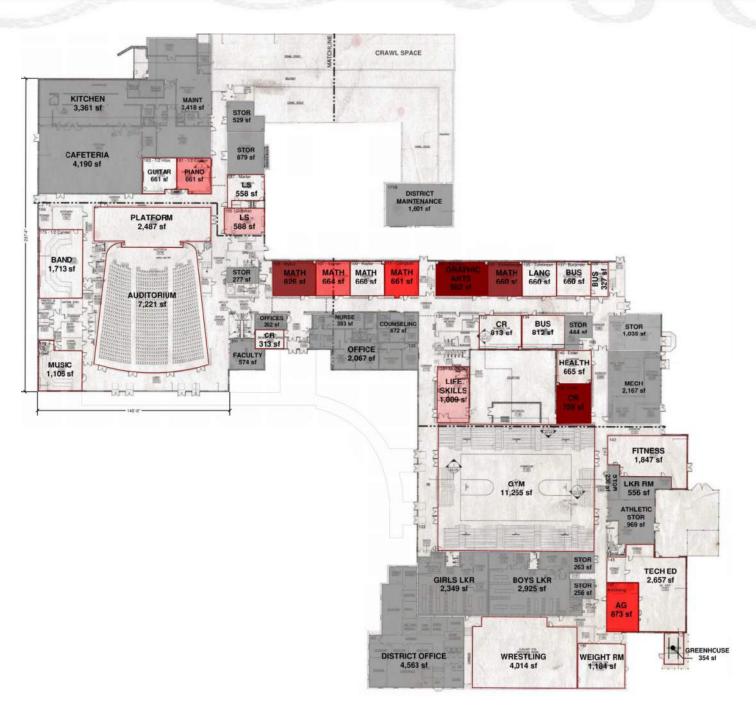




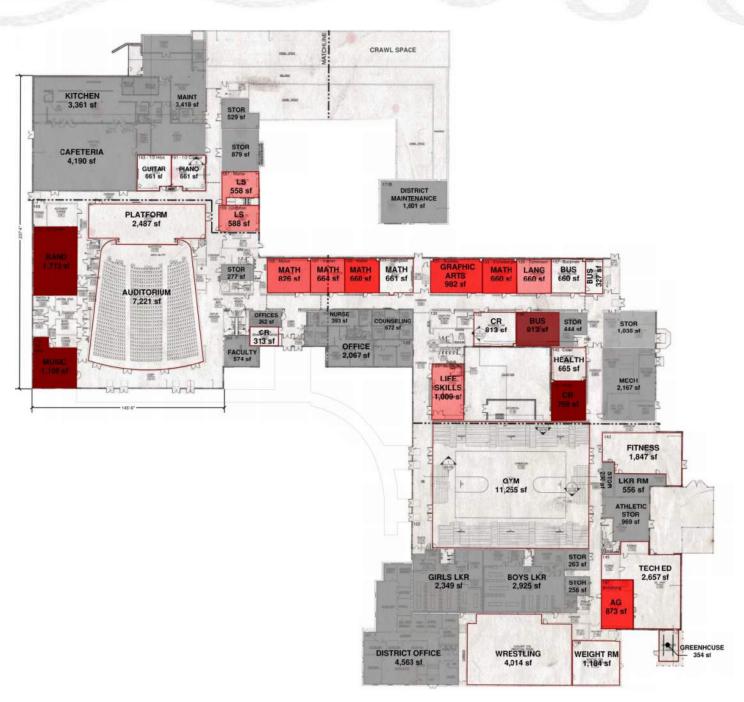


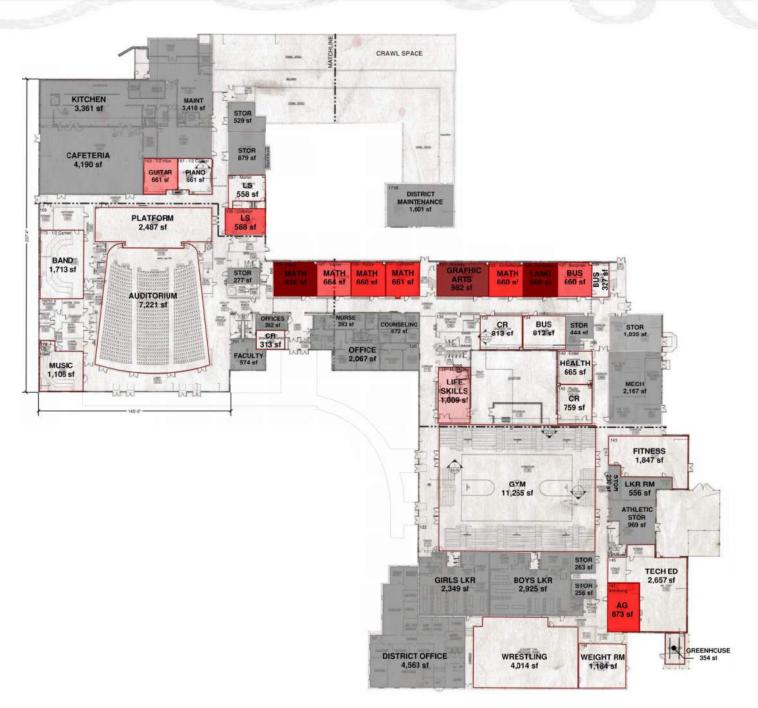


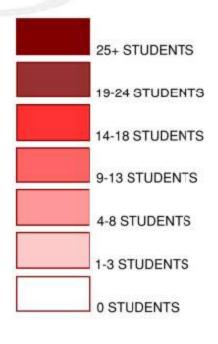


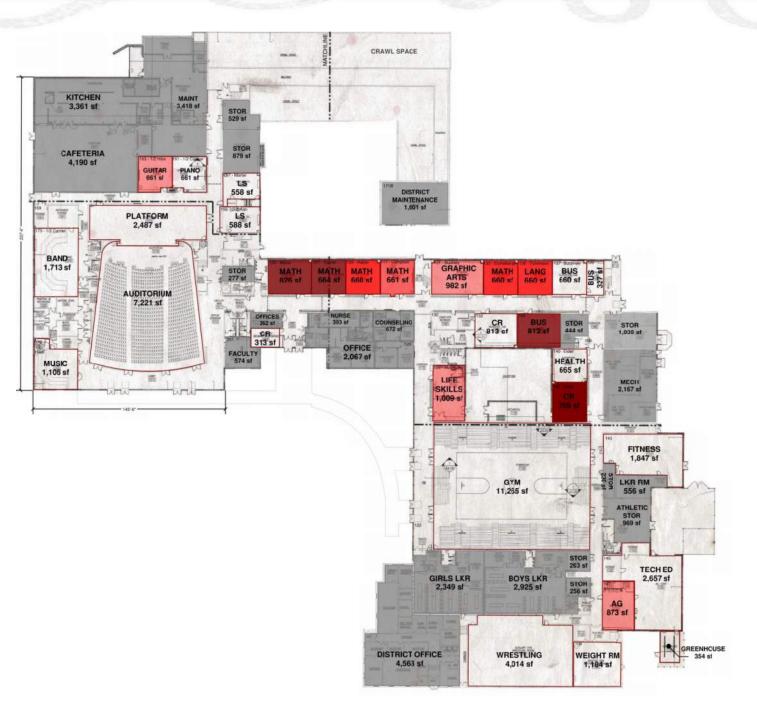


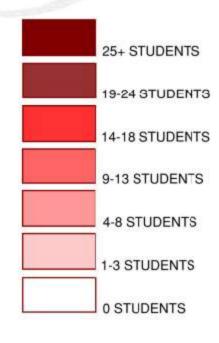


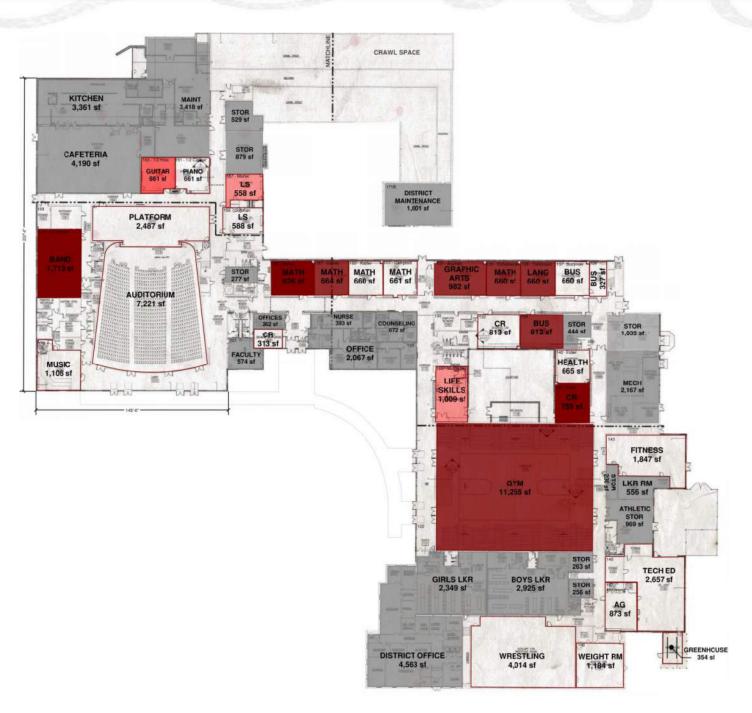


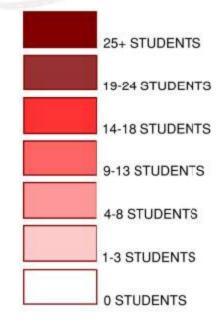






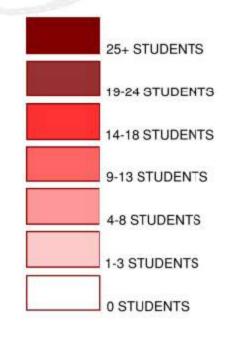




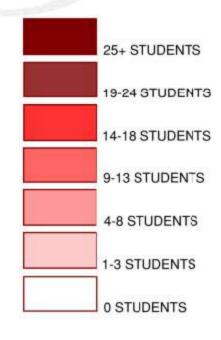


Second Floor, Homeroom

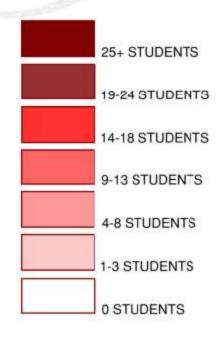




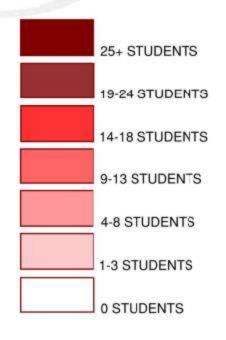




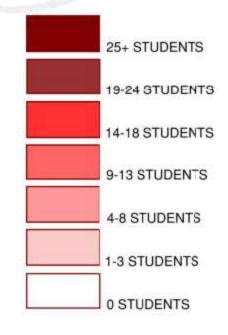




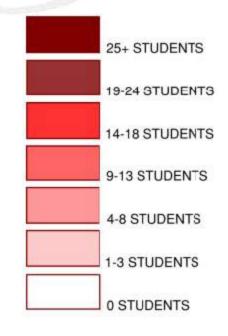




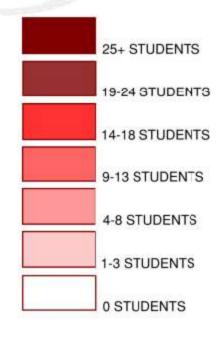




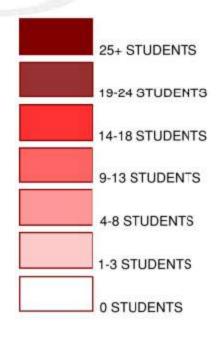






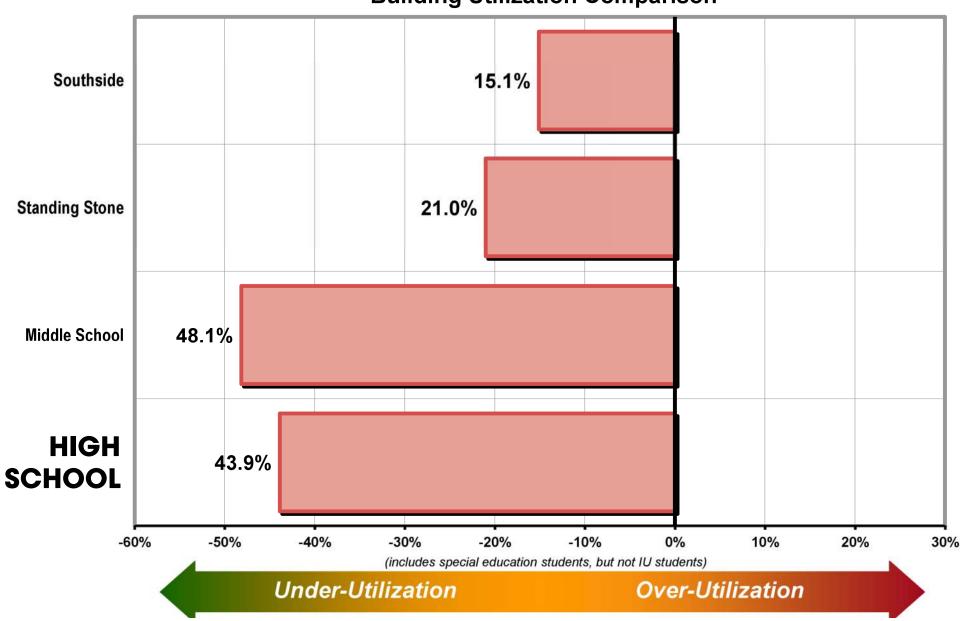






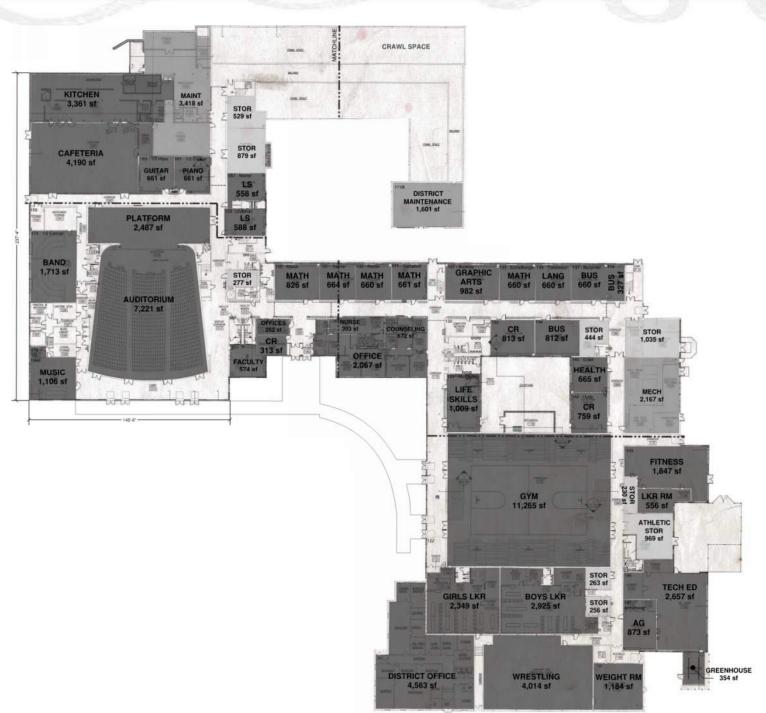
Utilization Graph

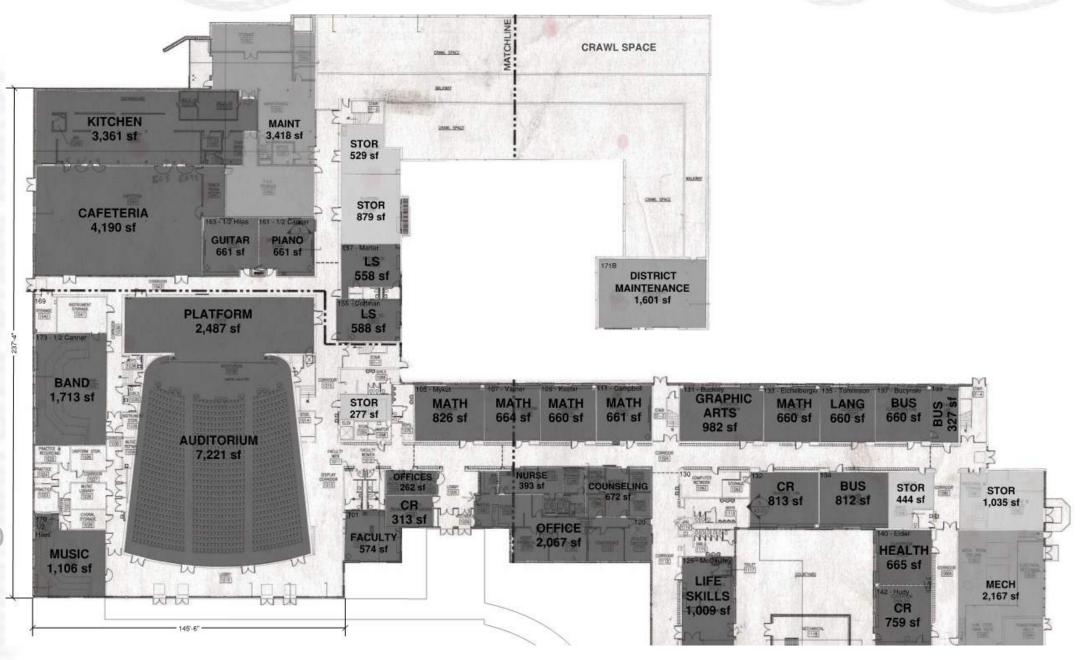
Building Utilization Comparison

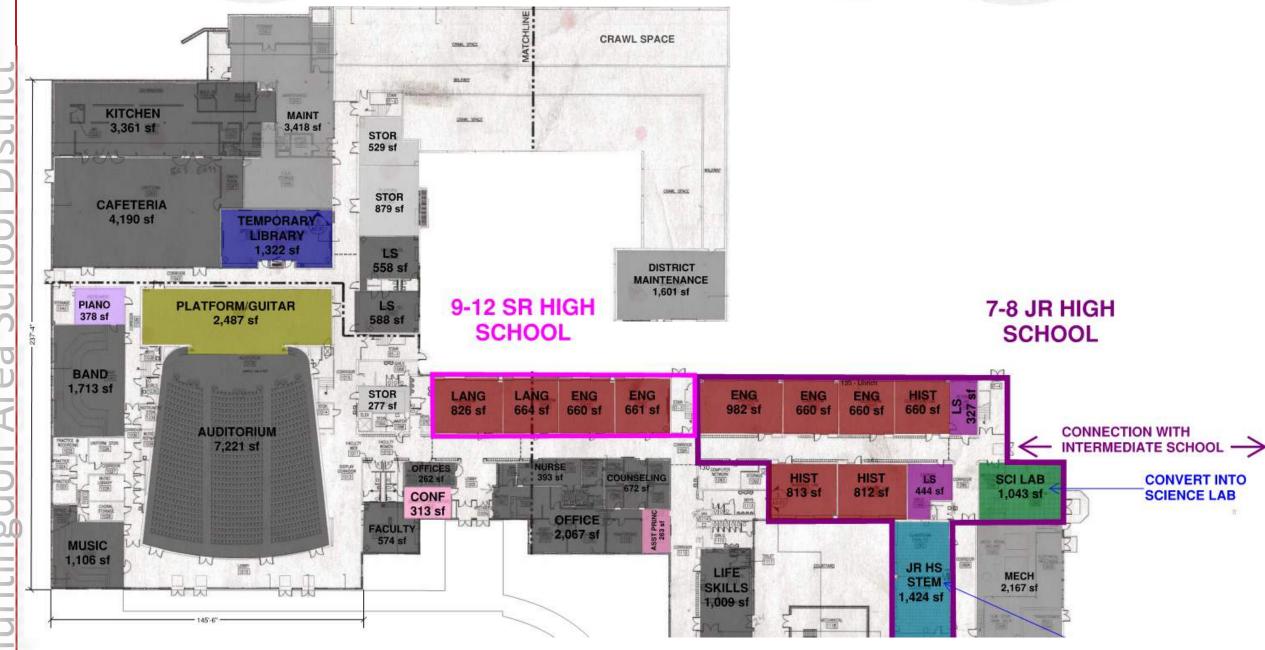


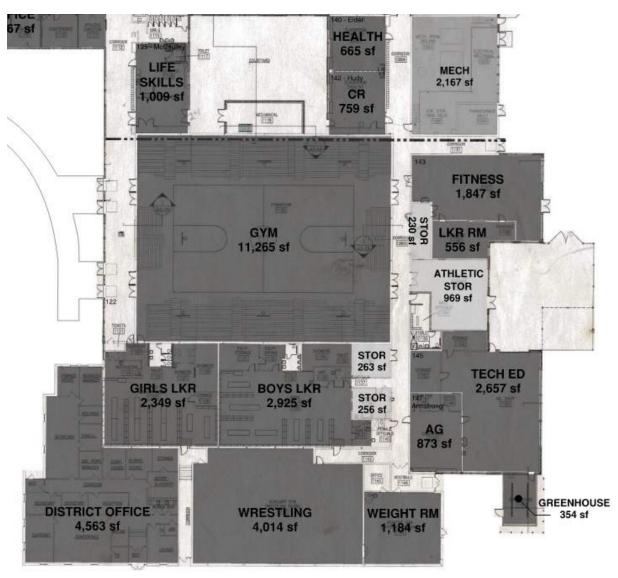
Analysis of Jr. / Sr. High Building for Grades 7-12

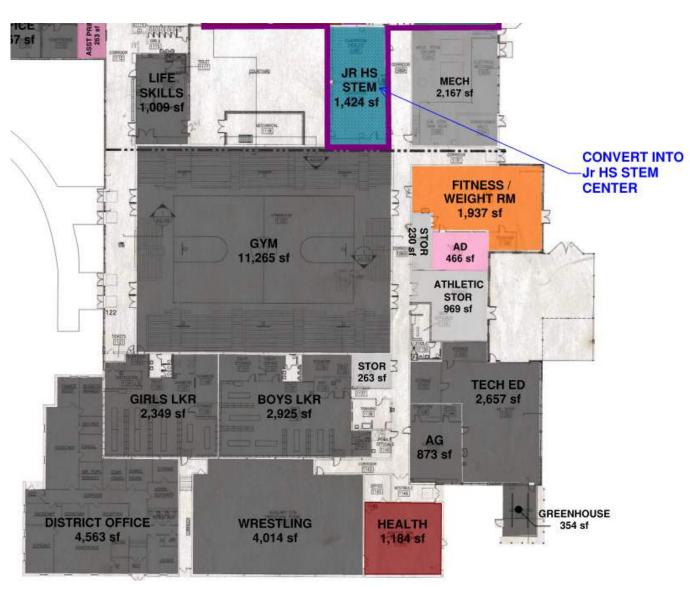
Multiple solutions developed.





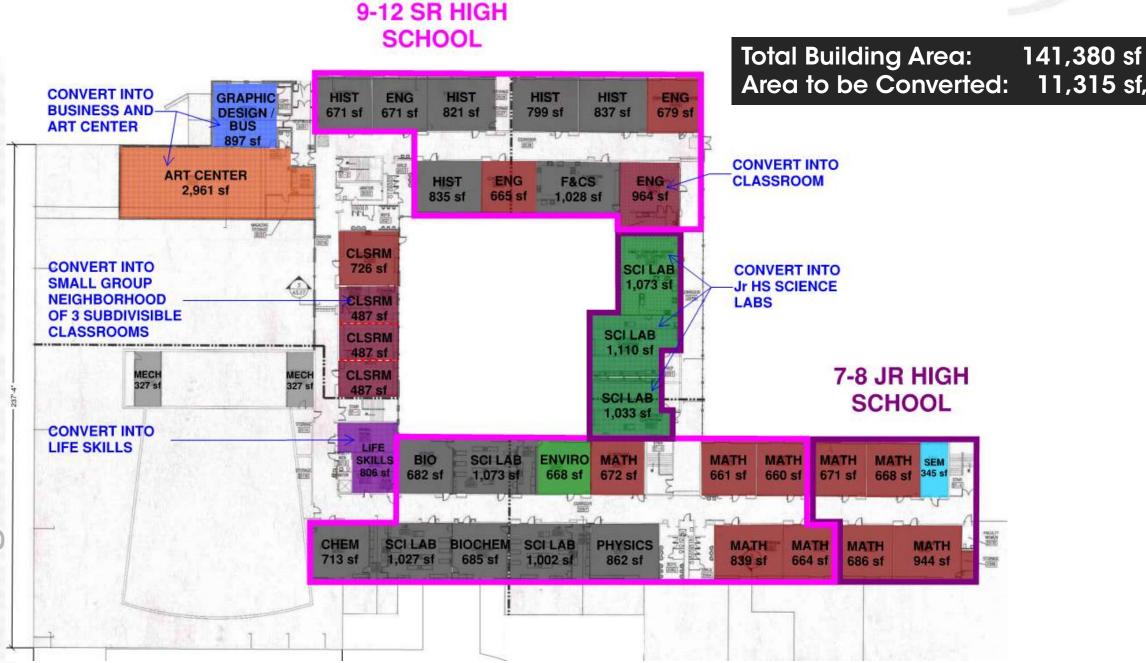


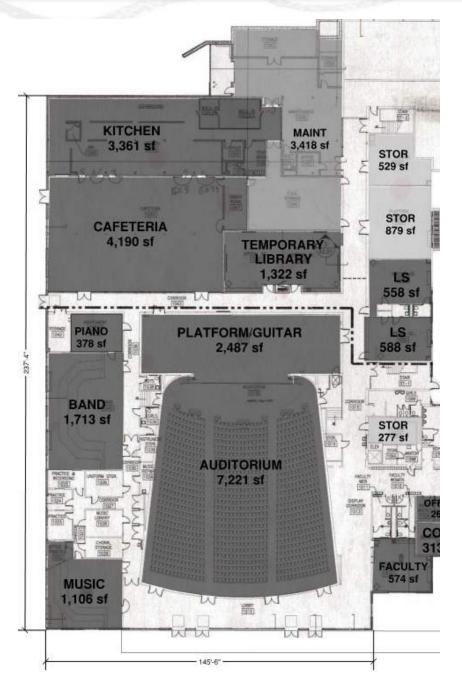






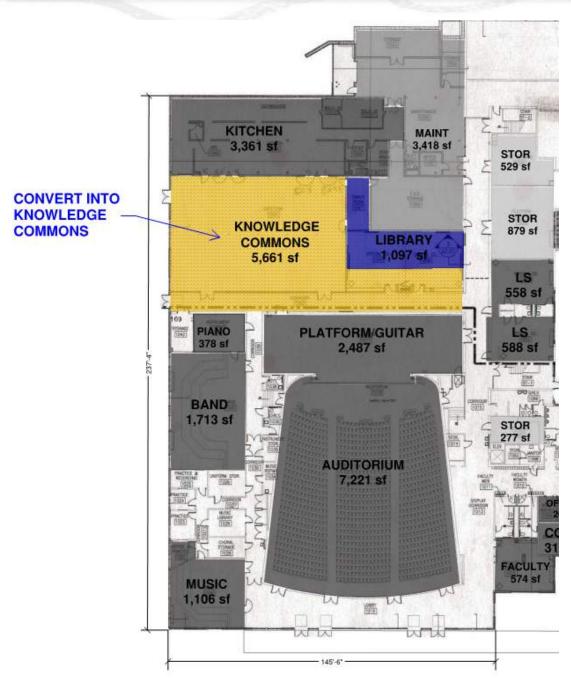
11,315 sf, or 8%





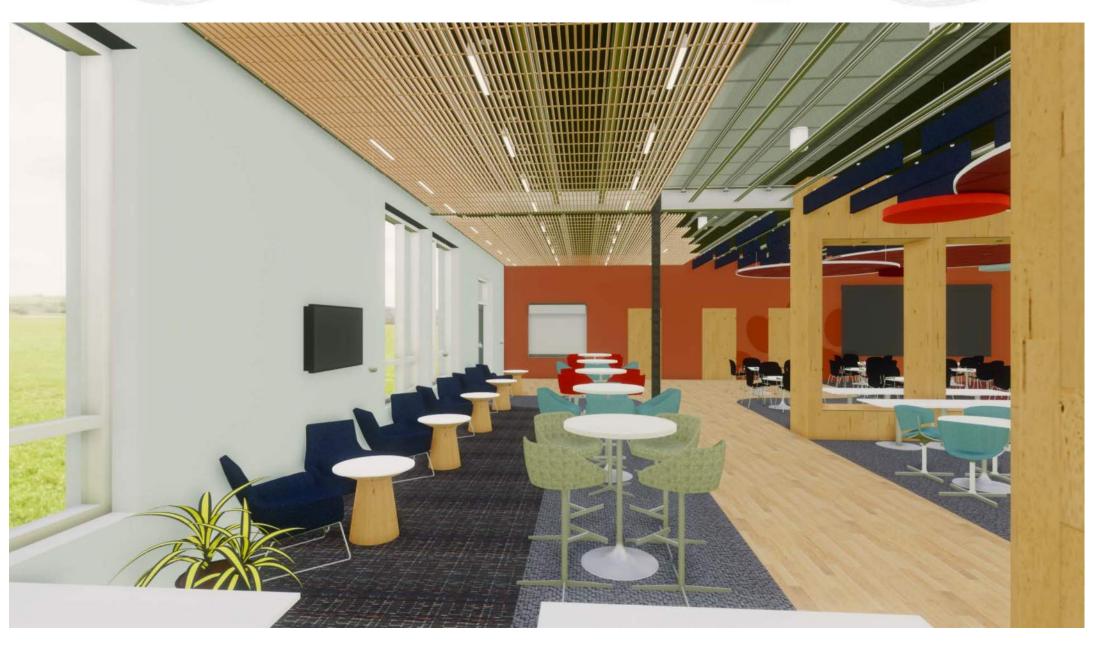
Future Use Profile 7-12 - Second Phase Considerations

Knowledge Commons



Total Building Area: 141,380 sf Area to be Converted: 6,758 sf, or 5%





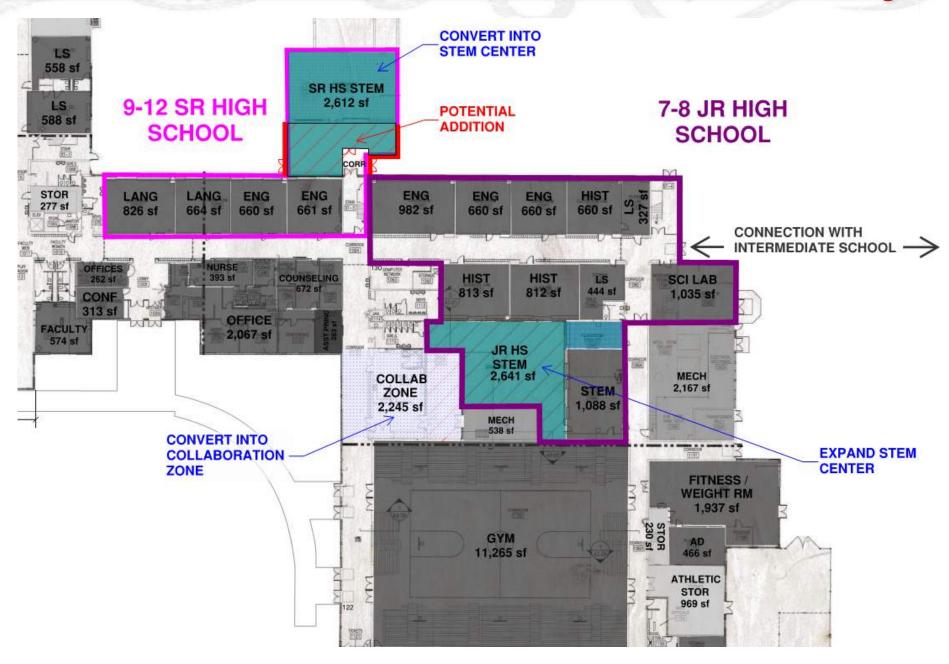




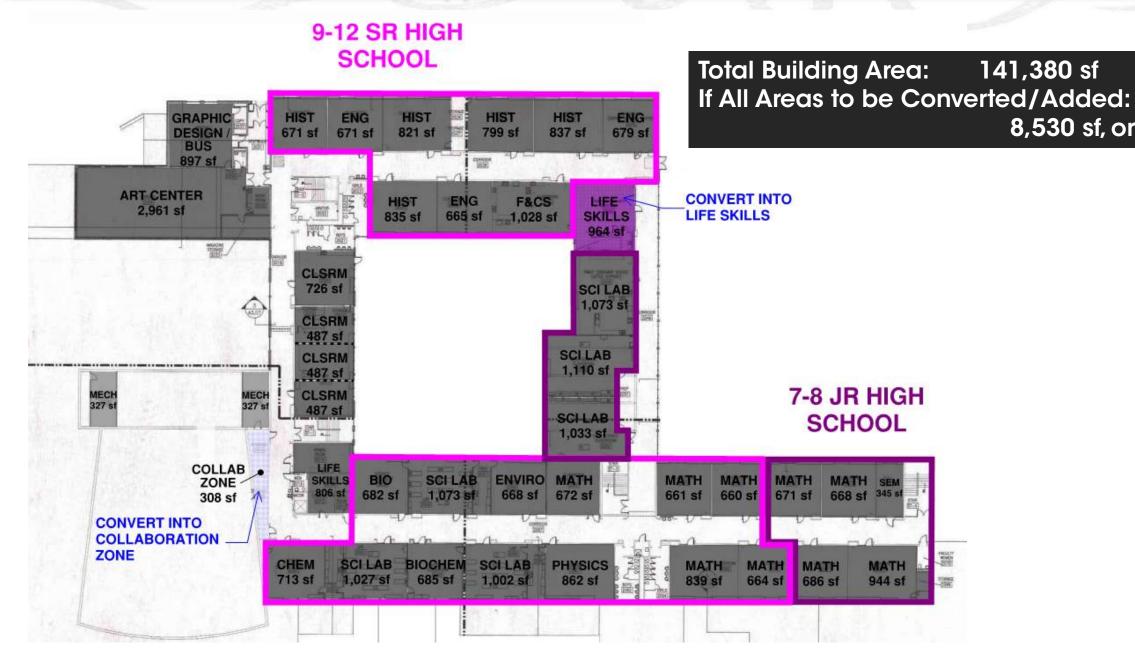


Future Use Profile 7-12 - Other Opportunities

Partial First Floor, Gymnasium Wing



8,530 sf, or 6%



Budgetary Considerations

Establishing Attributes & Weighing per Option

First and Annual Cost

								OPTIONS					
			1	2A	2B	3A	3B	4A	4B	5	6A	6B	6C
	HASD ATTRIBUTES CONSIDERED		Status Quo	Realign Grades	Realign Grades and add CTC to HS	Close Southside & Realign Grades	Close St Stone, Add SS & Realign Grades	Close Southside & Realign Grades	Close St Stone, Add SS & Realign Grades	Close Southside & Add to St Stone	Close Southside and Standing Stone. Re-align Grades	Close Southside and Standing Stone. Re-align Grades	6C Close Southside and Standing Stone. Re-align Grades
S	Grade Structure		K-5,6-8,9-12	K-2, 3-5, 6-8, 9-12	K-2, 3-5, 6-8, 9-12	K-2, 3-6,7-12	K-2, 3-6,7-12	K-3, 4-6,7-12	K-3, 4-6,7-12	K-4, 5-8,9-12	K-6, 7-12	K-5, 6-12	K-4, 5-12
Ĕ	Existing Building Area Remaining		381,016 SF	381,016 SF	381,016 SF	320,745 SF	302,500 SF	320,745 SF	302,500 SF	320,745 SF	242,229 SF	242,229 SF	242,229 SF
FEA	New Building Area						4,740 SF		14,220 SF	12,640 SF	22,120 SF	12,640 SF	6,320 SF
	Total Building Area		381,016 SF	381,016 SF	381,016 SF	320,745 SF	307,240 SF	320,745 SF	316,720 SF	333,385 SF	264,349 SF	254,869 SF	248,549 SF
	Total Area Change					- 60,271 SF	- 73,776 SF	- 60,271 SF	- 64,296 SF	- 47,631 SF	- 116,667 SF	- 126,147 SF	- 132,467 SF
	BUILDINGS USED MAINTENANCE												
	Avoided Capital Maintenand	ce				- \$ 1,040,505	- \$ 782,608	- \$ 1,040,505	- \$ 782,608	- \$ 1,040,505	- \$ 1,823,113	- \$ 1,823,113	- \$ 1,823,113
	Total Number of Buildings		4	4	4	3	3	3	3	3			
	FIRST COST												
	Elementary Cost						\$ 1,272,216		\$ 3,469,680	\$ 3,084,160	\$ 4,912,000	\$ 3,016,000	\$ 488,000
	Secondary Cost	econdary Cost			\$ 540,000								\$ 1,542,080
	Vocational Cost		\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Total Project Cost		\$.0	\$.0	\$ 540,000	\$.0	\$ 1,272,216	\$ 0	\$ 3,469,680	\$ 3,084,160	\$ 4,912,000	\$ 3,016,000	\$ 2,030,080
	State Aid	\$	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$0	\$ 0
TS.		%	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
100	Local Effort		\$ 0	\$ 0	\$ 540,000	\$ 0	\$ 1,272,216	\$ 0	\$ 3,469,680	\$ 3,084,160	\$ 4,912,000	\$ 3,016,000	\$ 2,030,080
FIRS	Annual Debt Recovery Rate	7.2%	\$ 0	\$ 0	\$ 38,880	\$ 0	\$ 91,600	\$ 0	\$ 249,817	\$ 222,060	\$ 353,664	\$ 217,152	\$ 146,166
	AVERAGE SCORE:		4	4	3.56	4	2.96	4	1.17	1.49	0	1.54	2.35
	WEIGHTED SCORE:	8.6%	0.34	0.34	0.31	0.34	0.25	0.34	0.1	0.13	0	0.13	0.2
	ANNUAL COST												
	Avoided Debt on Capital Mai	ntenance				- \$ 74,916	- \$ 56,348	- \$ 74,916	- \$ 56,348	- \$ 74,916	- \$ 131,264	- \$ 131,264	- \$ 131,264
	Professional Staff Savings				\$ 203,002	- \$ 321,304	- \$ 321,304	- \$ 321,304	- \$ 321,304	- \$ 321,304	- \$ 321,304	- \$ 321,304	- \$ 321,304
	Support Staff Savings					- \$ 121,887	- \$ 121,887	- \$ 121,887	- \$ 121,887	- \$ 121,887	- \$ 121,887	- \$ 121,887	- \$ 121,887
	Food Service Impact					- \$ 35,661	- \$ 35,661	- \$ 35,661	- \$ 35,661	- \$ 35,661	- \$ 35,661	- \$ 35,661	- \$ 35,661
	Transportation Cost Impact												
	Curricular Cost Impact - TBD)			\$ 60,000								
VUAL COST	Operations/Maint. Existing	\$ 6.53/sf				- \$ 393,515	- \$ 512,639	- \$ 393,515	- \$ 512,639	- \$ 393,515	- \$ 906,154	- \$ 906,154	- \$ 906,154
	Operations/Maint. New	\$ 5.65/sf					\$ 26,799		\$ 80,398	\$ 71,464	\$ 125,063	\$ 71,464	\$ 35,732
	Total Indirect Cost Impact				\$ 263,002	- \$ 947,284	- \$ 1,021,040	- \$ 947,284	- \$ 967,442	- \$ 875,820	- \$ 1,391,208	- \$ 1,444,806	- \$ 1,480,539
	Debt Less Indirect Costs/Sav	vings			\$ 301,882	- \$ 947,284	- \$ 929,440	- \$ 947,284	- \$ 717,625	- \$ 653,760	- \$ 1,037,544	- \$ 1,227,654	- \$ 1,334,373
	Annual Impact Year 20	3.0%/yr			\$ 529,352	- \$ 1,661,069	- \$ 1,629,779	- \$ 1,661,069	- \$ 1,258,359	- \$ 1,146,373	- \$ 1,819,340	- \$ 2,152,700	- \$ 2,339,831
AN	Difference from Current Plan	1											
	AVERAGE SCORE:		0.74	0.74	0	3.05	3.01	3.05	2.49	2.34	3.27	3.74	4
	WEIGHTED SCORE:	12.5%	0.09	0.09	0	0.38	0.38	0.38	0.31	0.29	0.41	0.47	0.5

	HASD ATTRIBUTES CONSIDERED	3A Close Southside & Realign Grades
83	Grade Structure	K-2, 3-6,7-12
FEATURES	Existing Building Area Remaining	320,745 SF
FEA.	New Building Area	
	Total Building Area	320,745 SF
	Total Area Change	- 60,271 SF

		Construction	
Description of Work	Cost	Cost	Project Cost*
INITIAL PHASE			
First Floor			
Convert Storage into JrHS Science Lab	146,020		
Convert 2 Classrooms into JrHS STEM	128,160		
Miscellaneous	70,000		
Repurpose Weight Room as Health Classroom			
Relocate Weight Room			
Move language, english, history, LS classes			
Move Piano Guitar			
Temporary relocation of Library			
Second Floor			
Repurpose Library as Art Center	325,710		
Repurpose Computer Lab as Graphic Design/Business	8,970		
Convert F&CS sewing room into Classroom	14,460		
Repurpose Head Start Classroom as JrHS Science Lab	53,650		
Recreate 2 Science Labs for JrHS	53,575		
Convert Science Prep into Life Skills Classroom	68,510		
Convert 1 Classroom into Small Group Neighbohood of 3	68,000		
Miscellaneous	25,000		
Move english, math, science, gifted classes			
	\$	962,055	\$ 1,183,328

Projected First Costs, Option 3A Refined

Second Phase

		Construction		
Description of Work	 Cost	 Cost	Proj	ect Cost*
PHASE 2				
First Floor				
Convert Cafeteria into Knowledge Commons	\$ 642,010	\$ 642,010	\$	789,672
*Includes \$200,000 for furnishings				

ESTIMATED TOTAL

\$ 1,604,065 \$ 1,973,000 +/- 10%

Costs are in current dollars and do not include inflation

ANNUAL COST				
Avoided Debt on Capital Mair	- \$ 74,916			
Professional Staff Savings	- \$ 321,304			
Support Staff Savings	- \$ 121,887			
Food Service Impact	- \$ 35,661			
Transportation Cost Impact				
Curricular Cost Impact - TBD				
Operations/Maint. Existing	\$ 6.53/sf	- \$ 393,515		
Operations/Maint. New	\$ 5.65/sf			
Total Indirect Cost Impact	- \$ 947,284			
Debt Less Indirect Costs/Sav	- \$ 947,284			
Annual Impact Year 20	3.0%/yr	- \$ 1,661,069		

<u>Funding</u>		Cash Basis
Estimated	Project Cost (Initial phase and phase 2)	\$ 1,973,000
Indirect So	ıvings, First Year	(\$ 947,284)
Avoided C	apital Costs	(\$ 1,032,881)
Southsi	de Avoidance	
`19-20	Shingle Roof	\$ 357,369
	Front Entrance	\$ 50,000
	Metal Wall Panels	\$ 108,076
	Cameras	\$ 30,000
	Window Hardware Repair	\$ 10,000
<i>`20-21</i>	Flat Roof	\$ 292,436
	Fire Alarm	\$ 25,000
`23-24	RTU Replacement	\$ 160,000

Total Cash Available

(\$ 1,980,165)

Funding Financing Option Estimated Project Cost (Initial phase and phase 2) 1,973,000 Indirect Savings, over 10 years (\$ 10,859,549) 947,284 Year 1 975,703 Year 2 \$ 1,004,974 Year 3 Year 4 \$ 1,035,123 \$ 1,066,176 Year 5 \$ 1,098,162 Year 6 Year 7 \$ 1,098,162 \$ 1,131,107 Year 8 \$ 1,199,991 Year 9 \$ 1,235,991 Year 10 Based on 3% inflation

Project Payback Period for Cash project no borrowing 2.1 years
Estimated annual debt service if financed for 20 years \$135,150
Resulting 2019-2020 annual savings if financed (\$812,134)

Conclusions

\$812,000 to \$947,000 annual <u>savings</u>

Provides opportunities with "found" space to improve learning environments for the students for minimal cost.

Spatial and Programming Analysis of 7-12 Jr/Sr High School

Presentation for the

Huntingdon Area School District

