Montoursville Area School District



Facility Study Update

February 25, 2014



Crabtree, Rohrbaugh & Associates, Architects

Agenda

- Enrollment
- Capacity
- Room Size
- Educational Program
- Building Systems
- •Improvement Ideas

Enrollment Analysis

Montoursville Area School District			Enrol	lment Hi	istory A	nalysis
Loyalsock Valley ES	K	1	2	3	4	Totals
2013 - 2014	43	45	44	56	61	249
2012 - 2013	40	44	55	62	73	274
2011 - 2012	43	54	60	68	41	266
2010 - 2011	54	61	66	43	59	283
2009 - 2010	60	64	37	59	66	286
2008 - 2009	63	43	56	64	34	260
2007 - 2008	39	52	63	37	64	255
2006 - 2007	46	62	41	69	63	281
2005 - 2006	65	41	72	59	69	306
2004 - 2005	38	73	58	65	46	280
				_ Change in la	st 10 years	-31
				Perc	ent change	-11%
			Aver	age 10 year	Enrollment	274
				Current	Enrollment	249

Montoursville Area SHS	9	10	11	12	Totals
2013 - 2014	142	155	156	155	608
2012 - 2013	144	155	157	142	598
2012 - 2013	144	155	157	142	59 8
2011 - 2012	166	159	143	149	617
2010 - 2011	158	148	146	164	616
2009 - 2010	158	150	161	174	643
2008 - 2009	168	159	180	181	688
2007 - 2008	177	190	185	179	731
2006 - 2007	208	183	179	171	741
2005 - 2006	210	176	172	192	750
2004 - 2005	197	176	196	163	732
		С	-124		
			Perce	ent change	-17%
		Avera	666		
			Current	Enrollment	608

Lyter ES	K	1	2	3	4	Totals
2013 - 2014	98	105	101	96	82	482
2012 - 2013	104	101	91	86	86	468
2011 - 2012	102	98	78	80	91	449
2010 - 2011	98	79	75	90	67	409
2009 - 2010	81	75	85	64	112	417
2008 - 2009	69	83	61	113	99	425
2007 - 2008	80	65	105	98	72	420
2006 - 2007	73	95	91	72	90	421
2005 - 2006	96	96	68	88	80	428
2004 - 2005	89	69	83	76	84	401
			С	hange in la	st 10 years	81
				Perce	ent change	20%
			Avera	ge 10 year	Enrollment	432
				Current	Enrollment	482
C E M - C - II MC	5	6	7	8	Totals	
C E McCall MS						
2013 - 2014	161	148	137	178	624	
			137 175	178 142	624 589	
2013 - 2014	161	148				
2013 - 2014 2012 - 2013	161 139	148 133	175	142	589	
2013 - 2014 2012 - 2013 2011 - 2012	161 139 133	148 133 180	175 143	142 152	589 608	
2013 - 2014 2012 - 2013 2011 - 2012 2010 - 2011	161 139 133 185	148 133 180 148	175 143 149	142 152 166	589 608 648	
2013 - 2014 2012 - 2013 2011 - 2012 2010 - 2011 2009 - 2010	161 139 133 185 138	148 133 180 148 144	175 143 149 161	142 152 166 146	589 608 648 589	
2013 - 2014 2012 - 2013 2011 - 2012 2010 - 2011 2009 - 2010 2008 - 2009	161 139 133 185 138 145	148 133 180 148 144 154	175 143 149 161 147	142 152 166 146 156	589 608 648 589 602 606 609	
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2013 - 2014 2012 - 2013 2011 - 2012 2010 - 2011	161 139 133 185	148 133 180 148	175 143 149	142 152 166	589 608 648	
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District Births source: PDE			
2006	112	actual	
2007	123	actual	
2008	108	actual	
2009	112	actual	
2010	111	actual	
2011	110	projected	
2012	109	projected	
2013	108	projected	
2014	107	projected	
2015	106	projected	
	111	Average a	l years

PDE Enrolment Projections

Year 2020 - 2021 :

K-4 -3.9% -27 students

5-8 -2.0% -13 students

9-12 +8.3% +51 students

Capacity Analysis

Monto	urs	ville Area School D	istrict			Capacity Analys	sis
					Loyal	sock Valley Element	ary
This list	tider	ntifies all existing room	s that pro	ovide capa	city base	ed on PDE methodology.	
Ro	om #	Function	Capacity Each	2013-14 Enrollment			
K	inde	rgarten					
	20	Classroom w/restroom	25				
	15	Classroom w/restroom	25				
			50	43	86%		
19	st G	rade					
	13	Classroom w/restroom	25				
	14	Classroom w/restroom	25				
	18	Classroom w/restroom	25				
			75	45	60%		
2r	nd G	irade					
	16	Classroom w/restroom	25				
	5	Classroom w/restroom	25				
			50	44	88%		
3r	rd G	rade					
	1	Classroom no restroom	25			-	
	6	Classroom no restroom	25				
	7	Classroom no restroom	25				
	8	Classroom no restroom	25			_	
			100	56	56%	Total Classroo	om
4t	th G	rade					
	2	Classroom no restroom	25			Total Gross Ca	na
	3	Classroom no restroom	25			Total Gross Ca	μa
	4	Classroom w/restroom	25			Total Net Ca	ap
			75	61	81%		- <u> </u>

Total Classrooms	14		
Total Gross Capacity	350		100%
Total Net Capacity	315	students	90%
2013 - 2014 Enrollment	249		79%
Average 10 year Enrollment	274		87%

Montoursville Area School District						Сарас	ity An	alysis
						_	High S	School
TI.:-	 			414			-1-1	
INIS	list ident	ines all existing	rooms	tnat pro	иае сара	city based on PDE mtho	aology.	
	Room #	Function	Capacity	Existing	Room #	Function	Capacity	Existing SF
	1.00	Function	Each	SF	1100111 11	Function	Each	Extouring of
1	2	Classroom	25	652	1	Science Classroom/Lab	20	1296
2	4	Classroom	25	711	3	Science Classroom/Lab	20	802
3	5	Classroom	25	709	10	Science Classroom/Lab	20	1089
4	6	Classroom	25	696	12	Science Classroom/Lab	20	1308
5	7	Classroom	25	765				
6		Classroom	25	1223	9	Special Ed	0	699
7	11	Classroom	25	1088	25	Special Ed	0	898
8	14	Classroom	25	741	26	Special Ed	0	701
9	15	Classroom	25	911	27	Special Ed	0	685
10	17	Classroom	25	921	56	Special Ed	0	791
11	18	Classroom	25	921				
12	19	Classroom	25	924	16	Computer Lab	20	1048
13	24	Classroom	25	699	20	Computer Lab	20	1416
14	34	Classroom	25	733	21	Computer Lab	20	1104
15	35	Classroom	25	701				
16	36	Classroom	25	739	28	Fam. and Con. Sci.	20	906
17	37	Classroom	25	911				
18	38	Classroom	25	880	22	Band	25	1949
19	39	Classroom	25	814	23	Choral	25	1281
20	40	Classroom	25	794				
21	41	Classroom	25	820		Gym	66	13542
22	42	Classroom	25	919				
23	43	Classroom	25	927	46	Ceramics	20	1794
24		Classroom	25	917	47	Drafting	20	1837
25	50	Classroom	25	678	48	2d Art	20	1458
26	1	Classroom	25	678	49	3D Art	20	1480
27	52	Classroom	25	922				
28	53	Classroom	25	897				
29	54	Classroom	25	1010	32	Wood Shop	20	2637
30	55	Classroom	25	806	33	Metal Shop	20	2283
31	56	Classroom	25	791	35	Vo-Ag Shop	25	2823

Capacity Analysis	trict	le Area School Dis	ontoursvi	Mon
High School				

	Total Gross Capacity	1196	
	90% Utilization	0.9	
	Total Net Capacity	1076	students
	2013 - 2014 Enrollment	608	
Highest	Projected Enrollment (year 2020-21)	667	

Room Size Analysis

Montoursville Area School District			Program
High School		Ro	om Size Analysis

	CLAS			
	Room #	Function	Existing SF	Planning Standard
1	2	Classroom	652	850
2	4	Classroom	711	850
3	5	Classroom	709	850
4	6	Classroom	696	850
5	7	Classroom	765	850
6	8	Classroom	1,223	850
7	11	Classroom	1,088	850
8	14	Classroom	741	850
9	15	Classroom	911	850
10	17	Classroom	921	850
11	18	Classroom	921	850
12	19	Classroom	924	850
13	24	Classroom	699	850
14	34	Classroom	733	850
15	35b	Classroom	701	850
16	36	Classroom	739	850
17	37	Classroom	911	850
18	38	Classroom	880	850
19	39	Classroom	814	850
20	40	Classroom	794	850
21	41	Classroom	820	850
22	42	Classroom	919	850
23	43	Classroom	927	850
24	44	Classroom	917	850
25	50	Classroom	678	850
26	51	Classroom	678	850
27	52	Classroom	922	850
28	53	Classroom	897	850
29	54	Classroom	1,010	850
30	55	Classroom	806	850
31	56	Classroom	791	850
			25,898	26,350

SCIEI	VCE		
Room #	Function	Existing SF	Planning Standard
1	Science Classroom/Lab 1	1,296	1,400
1a	Prep/Storage Room	184	300
3	Science Classroom/Lab 2	802	1,400
3a	Prep/Storage Room	116	300
10	Science Classroom/Lab 3	1,089	1,400
10a	Prep/Storage Room	422	300
12	Science Classroom/Lab 4	1,308	1,400
12a	Prep/Storage Room	189	300
		5,406	6,800

FA	FAMILY and CONSUMER SCIENCE				
Roo	om #	Function	Existing SF	Planning Standard	
2	28	Fam. and Con. Science	906		
		Lab 1	-	1,000	
		Lab 2	-	1,000	
		Classroom	-	850	
		Storage	-	500	
		Utility Room	-	500	
			906	3,850	

Montoursville Area School District			Program
High School		Ro	om Size Analysis

PERF	FORMING ARTS		
Room #	Function	Existing SF	Planning Standard
	Auditorium	5,600	10,800
	Stage	1,704	4,500
	Stage level Storage	217	
	Stage level Storage	104	
	Stage level Storage	121	
	Projection/Control Room	252	400
	Ticket Booth	30	75
	Black Box Theatre	-	3,000
	Black Box Storage	-	500
	Stage level Storage	-	1,500
	Piano Storage	-	100
	Scenery Shop	-	1,500
	Dressing Room - male	-	400
	Dressing Room - female	-	400
	Drama Classroom		850
		8,028	24,025

MUSI	C			
Room #	Function	Existing SF	Planning Standard	verify program
22	Band	1,949	3,500	150 band members
23	Choral	1,281	2,500	150 vocalists
	Practice Room	78	78	
	Practice Room	78	78	
	Practice Room	108	108	
	Practice Room	110	110	
	Practice Room	184	184	
	Instrument Storage	403	800	
	Music Library	338	300	
	Music Office	337	337	
	Music Classroom	-	900	
	Uniform Storage	-	500	
	Restrooms	380	380	

Montoursville Area School District			Program
High School		Ro	om Size Analysis

PHYS	SICAL EDUCATION		
Room #	Function	Existing SF	Planning Standard
	Main Gym	13,542	
	Locker Room - Boy's	1,740	
	Locker Room - Girl's	1,646	
	Team Lockers	549	
	Team Lockers	790	
59b	Locker Room	1,524	
	Training Room	442	
	Coaches Room	523	
	Gym Storage	910	
	Fitness Center	3,165	
68	Weight Room	2,314	

ART			
Room #	Function	Existing SF	Planning Standard
46	Ceramics	1,794	
46a	Darkroom		
47	Drafting	1,837	
48	2D Art	1,458	
48b	2D Storage	85	
49	3D Art	1,480	
49a	3D Storage	76	
49b	Kiln Room	211	

BUSI	BUSINESS / INFORMATION TECHNOLOGY						
Room #	Room # Function Existing SF Planning Standard						
16	Computer Lab	1,048	1,000				
20	Computer Lab	1,416	1,000				
21	Computer Lab	1,104	1,000				

LIBR	ARY/MEDIA CENTER		
Room #	Function	Existing SF	Planning Standard
73	Library	4,142	4,142
73a	Study Room	450	450
73b	Office	198	198
73c	Resource Room	462	462
73d	Periodicals	284	284
	Library Classroom		850

Montoursville Area School District			Program
Loyalsock Valley ES		Room Size Analys	

M edi	a Center		
Room #	Function	Existing SF	Planning Standard
23	Library	1,154	2,880
25	Conference	112	400
26	Conference	174	200
	Office		100
	Storage		300
	Library Classroom		850

Food	Food Service / Physical Education							
Room #	Function	Existing SF	Planning Standard					
34	Cafeteria	1,718	2,000					
33	Stage	570	1,500					
34	Kitchen	1,100	2,000					
31	PE Office	348	250					
	Gymnasium		7,500					
	PE Storage		600					
	Table/Chair Storage		500					
	Stage Storage		500					
	Stage access/ramp		250					

Montoursville Area School District Program Loyalsock Valley ES Room Size Analysis

A dmi	Administration, Guidance, Nurse							
Room #	Function	Existing SF	Planning Standard					
36	Admin. And Nurse	1,278	Standard					
37	Workroom	-						
	Guidance	493						
23b		235						
35	Supply Closet	143	450					
	Reception/Waiting		150					
	Admin Staff Area		200					
	Conference Room		250					
	Record Storage		100					
	Supply Storage		100					
	Workroom		200					
	Principal Office		200					
	General Office		120					
	Intinerant Office		120					
	Restroom - Men		75					
	Restroom- Women		75					
			1,590					
	Guidance Waiting		100					
	Guidance Office		150					
	Intinerant Office		120					
	Guidance Conference		120					
	Testing Room		80					
	Storage		100					
			670					
	Nurse Waiting		80					
	Nurse Office		120					
	Exam Room		150					
	Secure Storage		50					
	General Storage		100					
	Restroom		100					
	Cot area		120					
			720					
	Totals	2,149	2,980					
	TOLAIS	۷, ۱۳۵	831					
			031					

Building Systems

E. HVAC

Building SystemsLoyalsock Valley ES

System

 The HVAC system is in poor condition overall. The spaces are served by floor mounted unit ventil ators.



 Hot water is generated by two York Shipley boilers. They are oil-fuel fired. The boiler capacity is not adequate to heat the building and no redundancy is provided.



Hot water is distributed by base-mounted pumps through copper and steel piping.
 Pumps are in fair condition. Piping is insulated and located above the ceiling.

Building SystemsLoyalsock Valley ES

Loyalsock Valley Elementary Building Systems Summary

- 1. Replace the entire building heating, ventilating and cooling system. In addition, the temperature control system will be replaced with new.
- 2. <u>Inspect the underground sanitary sewer system</u> to determine issue/deficiencies in the existing piping prior to a major renovation that could utilize this system.
- 3. <u>Inspect the domestic water piping system</u> to determine issue/deficiencies in the existing piping prior to a major renovation that could utilize this system.
- 4. <u>The well system needs to be upgraded</u> to provide adequate water supply to the building. This is anticipated to be a combination of additional well capacity and additional water storage.
- 5. **Replace the existing plumbing system** including fixtures and trim, domestic water heating equipment, and plumbing related equipment in the building.
- 6. <u>Upgrade/replace portions of the electrical systems</u> including the emergency generator, fire alarm system, security, power distribution, and data networking.

E. HVAC

System

 The HVAC system is in poor condition overall. It is a combination of rooftop units, floor and ceiling mounted unit ventilators, and air handling units.





Steam is generated by three Hurst boilers. They are dual fuel fired. The boilers are
three different capacities for stage operation but staff indicated that there is not enough
capacity to operate the building during extreme cold conditions and there is no back-up
capacity.



Hot water is generated by steam to hot water converters.

Building Systems High School

Building Systems High School

High School Building Systems Summary

- Replace the entire building heating, ventilating and cooling system. In addition, the temperature control system will be replaced with new.
- 2. <u>Inspect the underground sanitary sewer system</u> to determine issue/deficiencies in the existing piping prior to a major renovation that could utilize this system.
- 3. <u>Inspect the domestic water piping system</u> to determine issue/deficiencies in the existing piping prior to a major renovation that could utilize this system.
- 4. Replace the existing plumbing system including fixtures and trim, domestic water heating equipment, grease interceptor, and plumbing related equipment in the building.
- 5. <u>Upgrade/replace portions of the electrical systems</u> including the emergency generator, fire alarm system, security, power distribution, and data networking.

Educational Program

			LE ARE					Γ			2746
3	RABT	REE, R	OHRBAU	GH	1 & A	SSOCI	ATES				20-Jan-14
ł	IGH S	CHOOL	PROGR	ΑM	ANA	LYSIS					
				Π	EXISTIN	IG HIGH SO	CHOOL		PROPOS	SED HIGH S	CHOOL
n	rollment 608		Capacity:			Capacity:					
				No.	Area	Subtotal	Total	No.	Area	Subtotal	Total
	Family A	& Consum	er Science								-,
_	FCS Clas		or O ciciico	2	820	1.640	1,640	1	850	850	
	FCS Lab	3100111			020	1,040	1,040	1	1.400	1.400	
	FCS Store	age						1	400	400	
	. 00 0.010	-9~		1					,00	,00	2.650
_	In Sobo	al Quenan	sion Clsrm					1	850	1 700	
1	III SCIIO	oi Suspen	SIUII CISIIII					2	800	1,700	1,700
0	Science			4	1,078	4,312		7	1,400	9,800	
		Classrooms		1	700	700					
	Science F	rep / Storag	e	3	300	900		5	250	1,250	
							5,912				11,050
1	Special	Education	1	3	850	2,550	2,550	6	850	5,100	5,100
12	Art Clas	sroom		4	1.750	7,000	7.000	3	1,400	4.200	
_	Kiln Room			<u> </u>	1,700	7,000	7,000	1	400	400	
	Art Storag							2	500	1.000	
	10	roject Storag	e					1	400	400	
											6.000
3	Health /	Drivers E	d					2	850	1,700	1,700
_											6,000
3	Band R	oom		1	1,824	1,824		1	3,000	3,000	
	Choral			1	1,216	1,216		1	2,000	2,000	
		ssroom / Pia	no Lab					1	1,000	1,000	
	Instrumen	t Storage		1	400	400		1	500	500	
	Instrumen	tal Practice		5	120	600		3	100	300	
	Music Lib	rary		1	330	330		1	100	100	
	Music Off	ice		1	288	288		2	120	240	
	Robe Stor	rage					4,040	1	400	400	
	Small Ens	emble Reher	sal Room					1	200	200	

LOYALSOCK VALLEY ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



LOYALSOCK VALLEY ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



LOYALSOCK VALLEY ELEMENTARY SCHOOL ADDITIONS AND RENOVATIONS



Option Characteristics

Loyalsock Valley ES

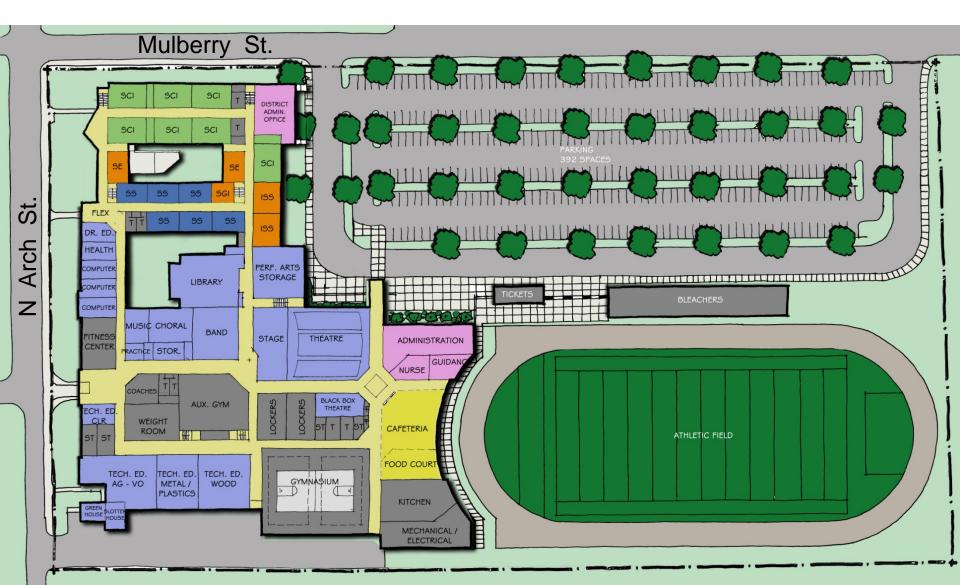
Additions and Renovations

- 1. New main entrance improves safety
- 2. Expanded Administration increases efficiency and service to community
- 3. New Lobby accommodates community events
- 4. Separation of bus and parent drop off areas increases safety
- 5. Separate Cafeteria and Gym spaces increases operational efficiency
- 6. Cafeteria can function as a stage, eliminates need for separate stage
- 7. Adequately sized public/student restrooms serve cafeteria and gym
- 8. Art, Music, and Library are relocated to adequately sized spaces
- 9. New: Kitchen, mechanical room, storage
- 10. Improved well/water storage system and new septic system.



Option 1: Additions & Renovations

Site Plan / First Floor Plan



Option 1: Additions & Renovations

Basement & Second Floor Plans



Option Characteristics

High School Option 1

- 1. Uses existing site
- 2. Retains majority of existing building
- 3. Retains original High School building
- 4. Parking for 400 +/- vehicles
- 5. Parking adjacent to stadium, DAO, and High School Main Entrance
- 6. Tight site, moderately challenging construction
- 7. Moderate disruption to students during construction
- 8. No District Maintenance building on site
- 9. Variance from ZHB for parking and lot coverage required
- 10. New 8 lane track and synthetic turf field allows 24/7 use



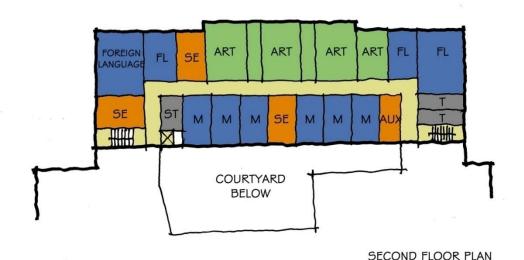
Option 2: Additions & Renovations

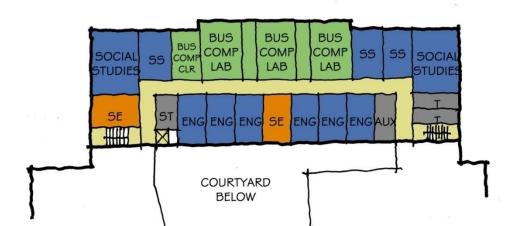
Site Plan / First Floor Plan



Option 2: Additions & Renovations

Second & Third Floor Plans





Option Characteristics

High School Option 2

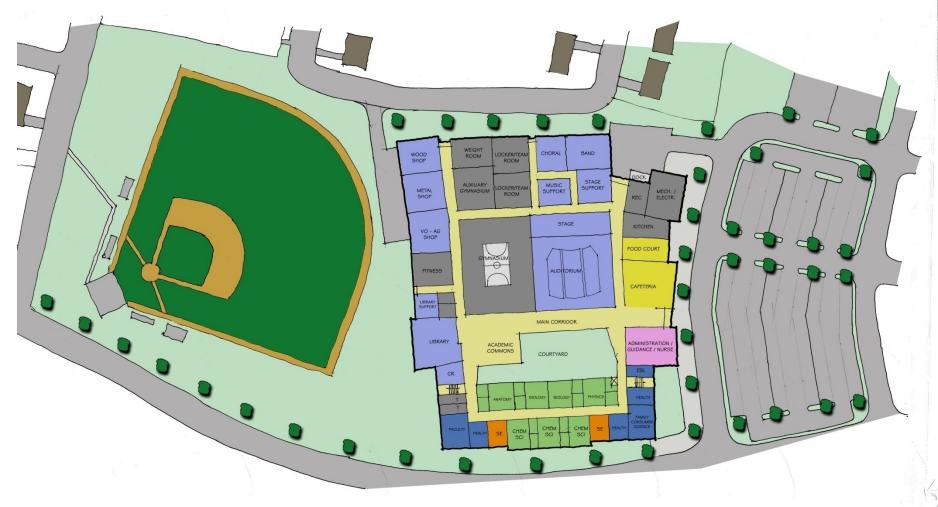
- 1. Uses existing site
- 2. Retains smaller portion of existing building
- 3. Retains original High School building
- 4. Parking for 240 +/- vehicles
- 5. Parking remote from stadium,
- 6. Parking close to DAO, and High School Main Entrance
- 7. Tight site, but less challenging construction than Option 1
- 8. Minimizes disruption to students during construction
- 9. Provides new District Maintenance building on site
- 10. Variance from ZHB for parking and lot coverage required
- 11. Retains existing stadium

Option 3: Existing Site



Option 3: New High School

Site and First Floor Plan

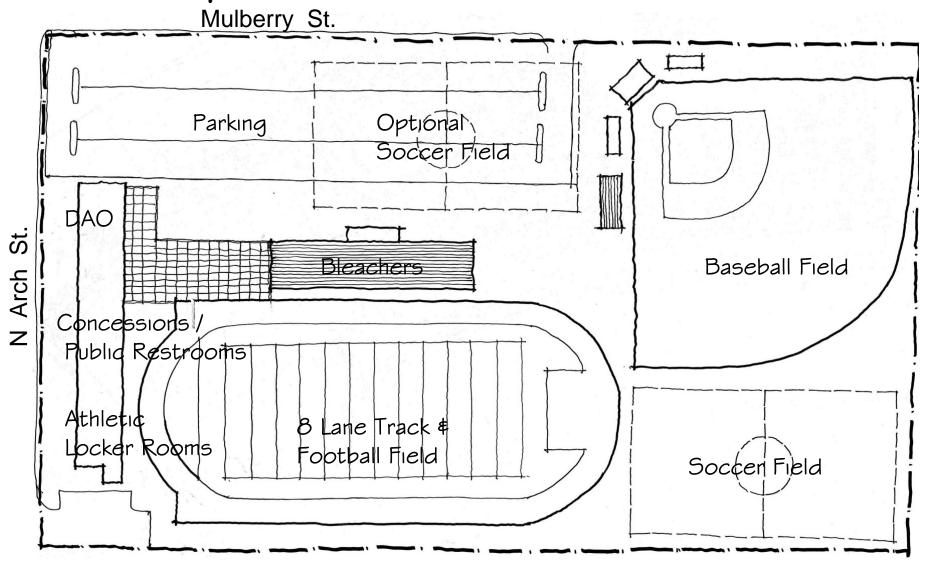


Option Characteristics

High School Option 3

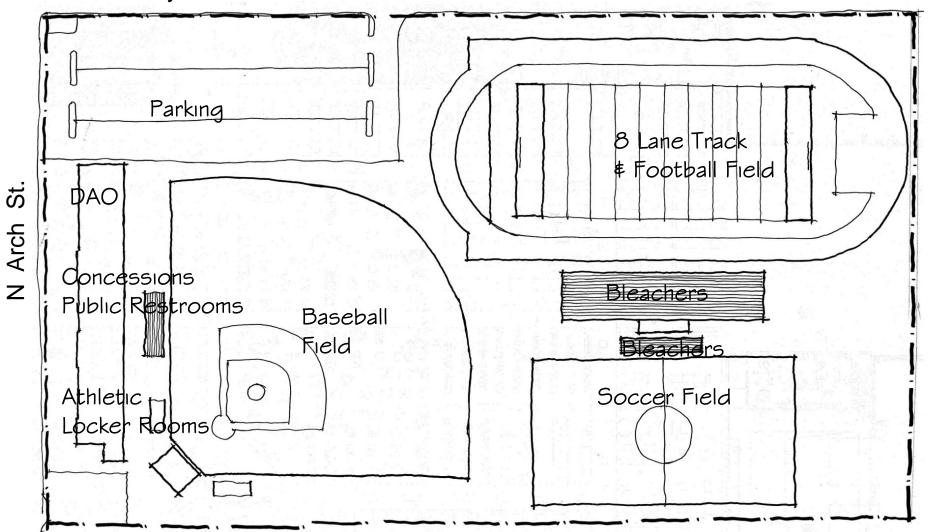
- 1. All new building adjacent to Middle School
- 2. No disruption to students during construction
- 3. All new athletic field complex on existing High School Site
- 4. Remote athletic fields increases transportation costs
- 5. Variance from ZHB for parking and lot coverage required
- 6. Highest cost option

Option 1: Athletic Fields



Option 2: Athletic Fields

Mulberry St.



Option 3: Athletic Fields

