

## **2 Final Design Space Program for Preferred Schematic Design**

The final Space Program attached herein contains all spaces that will be provided in the Longmeadow High School project. This has been developed with the user groups and administration at Longmeadow High School and has been approved by the School Building Committee.

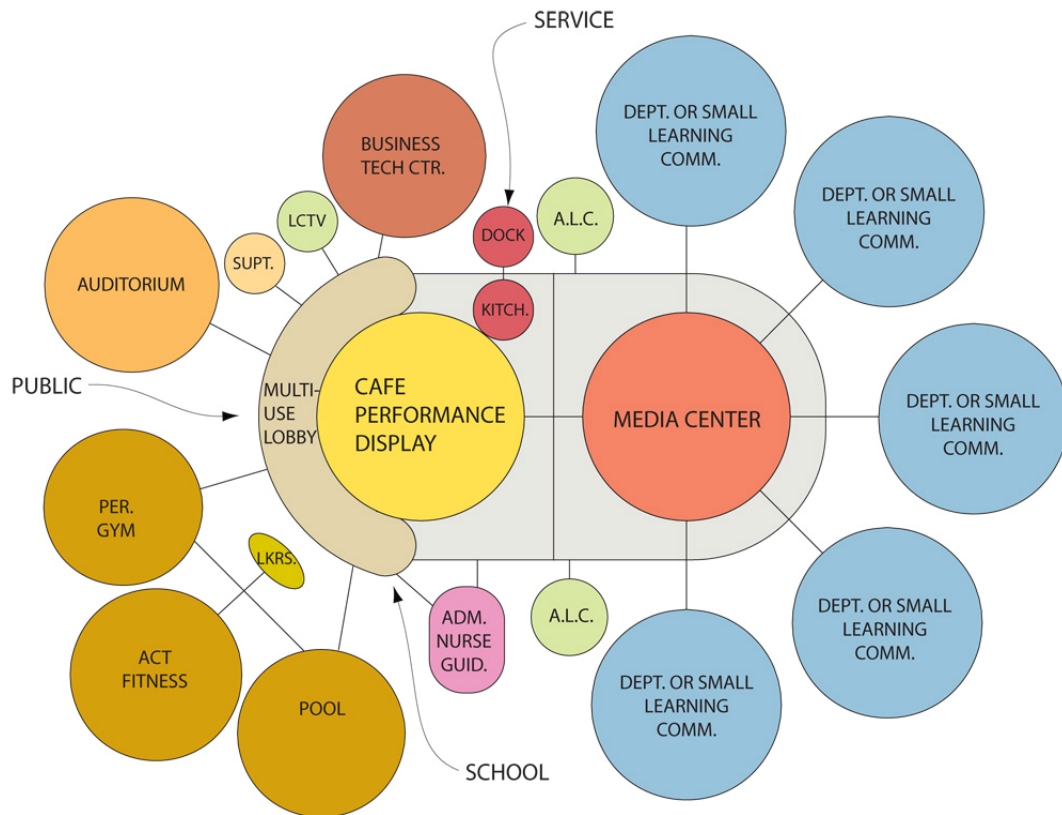
As with any phased design project, the space program has had some minor changes since the Feasibility Study program was submitted, due to needed program spaces. These include:

- An additional Science Classroom/ Lab
- An SLP office for the SPED Language specialist
- An expanded area in the Painting Classroom for the current Printmaking program
- Further clarification and adjustment of how the art and music will use their smaller spaces
- An athletic space for the trainer
- Equal spaces for the male and female Physical Education teachers' offices/monitoring spaces which are attached to the locker rooms
- Dimmer room for the Auditorium
- Exterior Storage for snow blowers. (All other outdoor equipment has been moved to the DPW building along with the facilities Director and Staff).
- Additional gymnasium storage for equipment
- Renovated Building: A space for the APE and Summer School offices in the District office area.

In summary, the new building gross square footage is 184,365 GSF, the renovation is 52,000 GSF and the combined is 236,365 GSF. The net to gross ratio for the new building is 1.47, for the renovation is 1.42 and for the combined building is 1.46.

For a deeper understanding of how the strictly functional aspects of programming merge with the spatial relationships, we have developed a series of functional relationship diagrams, illustrated here. The first diagram on the following page shows adjacencies throughout the school, while the next two diagrams further detail the relationships of the Applied Learning Centers to each of the Departments OR to each Small Learning Community as the school's educational delivery structure changes. Each diagram shows how these flexible groups might work in the overall concept.

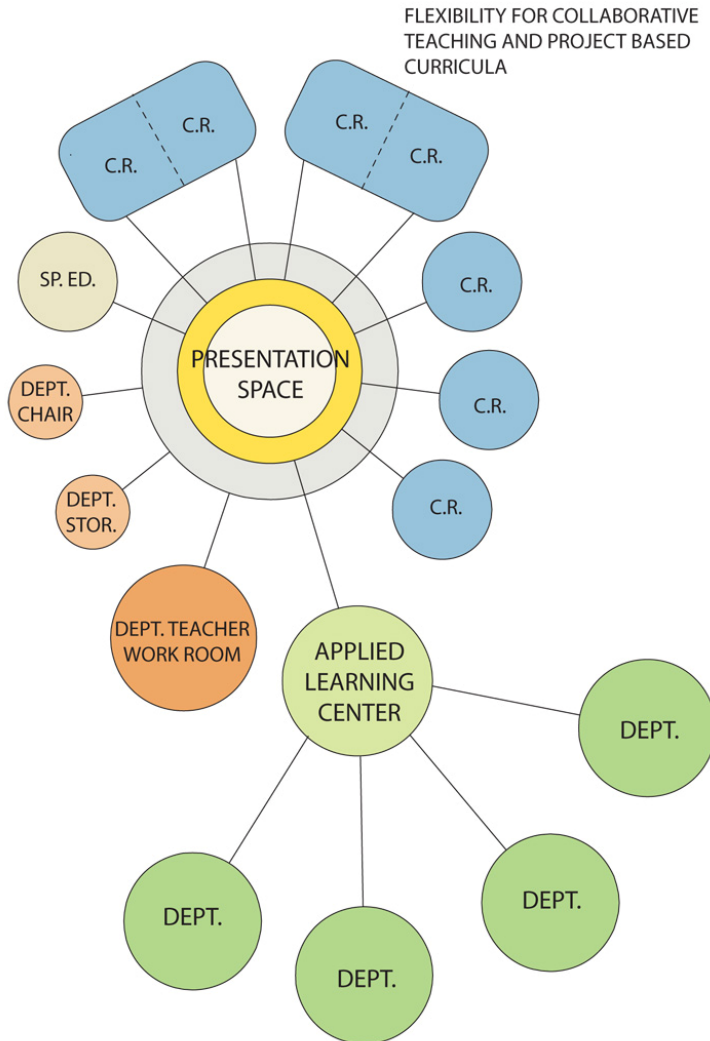
**BUILDING ORGANIZATIONAL CONCEPT**



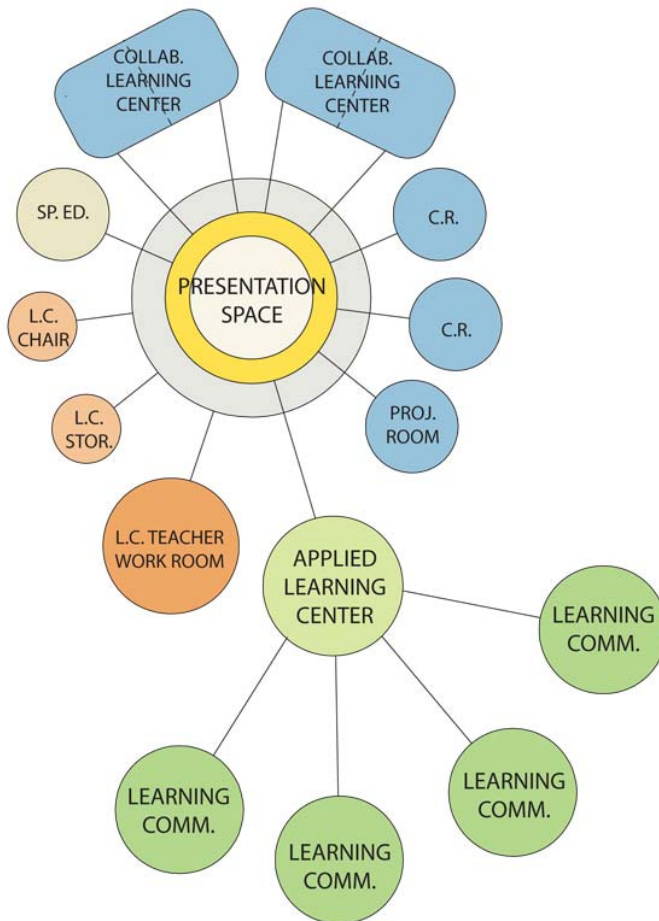
One Building, Two Educational Delivery Methods:

**DEPARTMENTAL ORGANIZATIONAL CONCEPT:**

Some Collaborative Teaching and Project Based Learning



**SMALL LEARNING COMMUNITY CONCEPT:**  
Multi-use, Collaborative and Project Based Learning













# Longmeadow High School Space Summary

## Preferred Option

12/3/2009; rev 2/10/10

### ACTUAL DRAWINGS DATED 2-10-10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
	ROOM NFA <sup>1</sup>	# OF RMS	area totals
<b>DINING &amp; FOOD SERVICE</b>			<b>11,979</b>
Cafeteria / Student Lounge/ Break-out 400 seats max. capacity per 8/11/09 mtg	8,007	1	8,007
Chair / Table Storage			
Kitchen, incl. scramble serv, staff toilet, office	2,992	1	2,992
Staff Lunch Room	980	1	980
<b>MEDICAL</b>			<b>662</b>
Medical Suite Toilet			
Existing - girls	25	1	25
Existing - boys	25	1	25
Nurses' Office/Waiting Room			0
Waiting	150	1	150
Office	138	1	138
Nurse Storage	10	1	10
Interview Room			0
Examination Room / Resting			0
Examination Room	77	1	77
Resting Room - Girls	160	1	160
Resting Room - Boys	77	1	77
<b>ADMINISTRATION &amp; GUIDANCE</b>			<b>8,205</b>
General Office / Waiting Room/ 3 Toilets	0	0	0
Ex Gen'l Office / Waiting	395	1	395
Ex Toilet (Office)	21	1	21
Ex Storage/Closet	35	1	35
Teachers' Mail and Time Room.	0	0	0
Copy Room (Ex. at Media Center)	674	1	674
Records Room (ex vault )	98	1	98
Principal's Office w/ Conference Area			
Ex Principal's Office	178	1	178
Ex Toilet	26	1	26
Principal's Secretary / Waiting	230	1	230
Assistant Principal's Office - AP1	132	1	132
Assistant Principal's Office - AP2	132	1	132
Student Information Systems Office	178	1	178
Student Activities Conference Room			
Conference Room (Shared w/ Guidance)	454	1	454
I.S. (Internal Suspension)	532	1	532
SAO (Substance Abuse Office) and conf.	315	1	315
ELL (English Language Learners)	90	1	90
SRO (School Resource Officer)	88	1	88
Social Worker/ Adjustment Counselor	56	1	56

Existing to Remain/Renovated			New			Comments
ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	
		<b>0</b>			<b>8,563</b>	
						LHS requires 2.5 seatings to accommodate academic class schedule; capacity - 400 students x 15 nsf
			5,802	1	5,802	
			114	1	114	for gym chairs stacked
			2,225	1	2,225	includes toilet and office
			422	1	422	
		<b>0</b>			<b>1,029</b>	
			45	2	90	
			320	1	320	
			51	1	51	
			104	2	208	
			90	4	360	
		<b>0</b>			<b>6,353</b>	
						Program includes Dept. Chair offices; also used for dept. meetings, small meetings, private phone calls to parents. (3) peo. 3 shared toilets in gross.
			423	1	423	
			181	1	181	
			212	1	212	in acad wing
			134	1	134	
			258	1	258	
			114	1	114	M. Cadieux
			134	1	134	T. Landers
			134	1	134	P. Dunkerley
			incl			B. Keator (adjacent to Main Office) in above
			197	1	197	Student Activities
			397	1	397	
			316	1	316	R. Lee desk w/5-10 students
			304	1	304	(Relocated from Div 12)
			134	1	134	J. Preston
						N. Swistak; moved to reno
			104	1	104	

MSBA Guidelines 1000 students			
ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments
		<b>8,200</b>	
5,000	1	5,000	3 seatings - 15SF per seat
400	1	400	
2,300	1	2,300	1600 SF for first 300 + 1 SF/student Add'l
500	1	500	20 SF/Occupant
		<b>910</b>	
60	1	60	
250	1	250	
100	2	200	
100	4	400	
		<b>4,370</b>	
500	1	500	Administrative Suite: 2270 nsf
100	1	100	
200	1	200	
200	1	200	
375	1	375	
125	1	125	
150	1	150	
150	1	150	
120	1	120	
450	1	450	

## Longmeadow High School Space Summary Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
	ROOM NFA <sup>1</sup>	# OF RMS	area totals
Guidance Office (Director)	132	1	132
Guidance Offices (Counselors)	0	0	0
Guidance Offices (Counselors)			
Existing	93	1	93
Existing	88	1	88
Existing	56	1	56
Existing	88	1	88
Administrative Assistant (Director's Assistant)			
Administrative Assistant	77	1	77
Guidance Waiting Room	595	1	595
Ex Toilet - Male	41	1	41
Ex Toilet - Male	63	1	63
Ex Closet	23	1	23
Student Information Systems			
Guidance Storeroom	109	1	109
Small Conference Room			
Career Center/ Resource Library	713	1	713
Records Room			
Teachers' Work Room (Ex. at Media Center incl. mail room)	820	1	820
METCO Room	742	1	742
Department Chair Offices			
Ex English	88	1	88
Ex Math	340	1	340
Ex History	80	1	80
Ex Foreign Language	161	1	161
Ex Science	100	1	100
Visual Arts	98	1	98
Musical Arts	64	1	64
<b>CUSTODIAL &amp; MAINTENANCE</b>			<b>594</b>
Custodian's Office			
Custodian's Workshop			
Custodian's Storage	294	1	294
Recycling Room / Trash			
Receiving and General Supply Storeroom			
Network/Telecom Room - Warena	300	1	300
Maintenance Storage Outdoor			
Book Storage Moved from RENO			

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	
			133	1	133	D. Lyons
			122	3	366	M. Smith.
			121	1	121	
			103	1	103	shown as guidance secretary. G whipple
			81	1	81	E.Rotsko
			96	1	96	(8 to 10)
			149	1	149	A Nilsson
			114	1	114	
			204	1	204	
			328	1	328	
			158	1	158	
			397	1	397	Location near Main Entry, Guidance and Adm.
			198	1	198	
			198	1	198	
			198	1	198	
			198	1	198	
			175	1	175	
			incl			shared with art teach
			94	1	94	
		<b>0</b>			<b>2,808</b>	
			140	1	140	
			189	1	189	
			225	1	225	
			223	1	223	
			1,019	1	1,019	
			incl			Head End Room moved to reno
			220	1	220	
			198	4	792	

MSBA Guidelines 1000 students			
ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments
750	1	750	
100	1	100	
100	1	100	
400	1	400	
150	1	150	
500	1	500	
		<b>2,375</b>	
150	1	150	
250	1	250	
375	1	375	
400	1	400	
400	1	400	
600	1	600	
200	1	200	





# Longmeadow High School Space Summary

## Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions School Year 2009/2010		
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	

MSBA Guidelines 1000 students			
ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments

## COMBINED BUILDING - 236,365 gsf

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
ROOM TYPE	ROOM NFA <sup>1</sup>	# OF RMS	area totals

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated - gsf			New Building Construction - gsf			Combined
ROOM NFA <sup>1</sup>	# OF RMS	area totals	ROOM NFA <sup>1</sup>	# OF RMS	area totals	

MSBA Guidelines 1000 students			
ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments

Total Building Net Floor Area (NFA)			162,524
Total Building Gross Floor Area (GFA) <sup>2</sup>			248,000
Grossing factor (GFA/NFA)			1.53

		36,682			125,452	162,134
		52,000			184,365	236,365
		1.42			1.47	1.46

		122,812	
		185,000	
		1.51	

<sup>1</sup> Individual Room Net Floor Area (NFA)

Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

<sup>2</sup> Total Building Gross Floor Area (GFA)

Includes the entire building gross square footage measured from the outside face of exterior walls

**Architect Certification**

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and in accordance with the rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architect Firm: OMR Architects

Name of Principal Architect: Jeanne K. Roberts, AIA

Signature of Principal Architect:

Date: 11-Feb-10