

**NEW GRAFTON HIGH SCHOOL
Final Space Summary**

| ROOM TYPE | Existing Conditions | | |
|---|-----------------------|----------|---------------|
| | ROOM NFA ¹ | # OF RMS | area totals |
| CORE ACADEMIC SPACES | | | 25,922 |
| Classroom - General | 824 | 20 | 16,488 |
| Small Group Seminar (20-30 seats) | 205 | 1 | 205 |
| Foreign Language Lab | | | |
| Large Group Instruction | 1,290 | 1 | 1,290 |
| | | | |
| Science Classroom / Lab | 1,035 | 6 | 6,207 |
| Prep Room | 289 | 3 | 867 |
| Storage | 101 | 5 | 505 |
| Greenhouses (individual windows, in each) | 360 | 1 | 360 |
| SPECIAL EDUCATION | | | 4,051 |
| Self-Contained SPED w/tlt (Learning Center) | 845 | 3 | 2,535 |
| Language Based Classroom | | | |
| Life Skills SPED w/ tlt | 615 | 1 | 615 |
| School Psychologist / SPED Chair | 175 | 1 | 175 |
| Speech and Language Pathologist | 85 | 1 | 85 |
| Self-Contained SPED Toilet | 56 | 1 | 56 |
| Resource Room | 435 | 1 | 435 |
| Small Group Room (Learning Centers) | 150 | 1 | 150 |
| OT / PT | | | |
| Braille Room | 150 | 1 | |
| SPED Conference | | | |
| SPED Records | | | |
| ART & MUSIC | | | 4,459 |
| Art Classroom - 25 seats | 1,215 | 1 | 1,215 |
| Art Workroom w/ Storage & kiln | 350 | 2 | 700 |
| Band | 1,120 | 1 | 1,120 |
| Chorus | 1,119 | 1 | 1,119 |
| Ensemble | 170 | 1 | 170 |
| Music Practice | 40 | 2 | 80 |
| Storage | 55 | 1 | 55 |
| VOCATIONS & TECHNOLOGY | | | 8,880 |
| Tech Clrm. - Architecture, Engineering, CAD Lab | 1,095 | 1 | 1,095 |
| Tech Clrm. - Business Classroom | 810 | 1 | 810 |
| Tech Clrm. - TV - Video Production | 895 | 1 | 895 |
| Tech Clrm - Business Computer Lab | 1,075 | 1 | 1,075 |
| Tech Clrm - Business Computer Lab | 670 | 1 | 670 |
| Tech Clrm - Early Childhood | | | |
| Tech Shop - Clothing, Textiles, Foods | 1,890 | 1 | 1,890 |
| Tech Shop - Manufacturing/Robotics | 2,230 | 1 | 2,230 |
| Tech Shop - Storage | 108 | 2 | 215 |
| HEALTH & PHYSICAL EDUCATION | | | 16,950 |
| Gymnasium | 8,305 | 1 | 8,305 |
| PE Alternatives (Weights) | 820 | 1 | 820 |
| PE Alternatives (Dance) | 3,840 | 1 | 3,840 |
| Gym (PE) Storeroom | 125 | 1 | 125 |
| Locker Rooms - Boys/Girls w/Toilets | 150 | 2 | 300 |
| Locker Rooms - Boys/Girls w/Toilets | 1,120 | 2 | 2,240 |
| Phys. Ed. (Athletic) Storage | 120 | 1 | 120 |
| Athletic Director's Office | 360 | 1 | 360 |
| Health Instr. Off. w/Coaches w/Shower & Toilet | | | |
| Athletic Trainer | | | |
| Team Room | 420 | 2 | 840 |
| MEDIA CENTER | | | 4,155 |
| Media Center/Reading Room | 3,450 | 1 | 4,155 |
| AUDITORIUM / DRAMA | | | 7,095 |
| Auditorium (exist 752 seats) | 4,655 | 1 | 4,655 |
| Stage | 2,440 | 1 | 2,440 |
| Auditorium Storage | | | |
| Make-up / Dressing Rooms | | | |
| Controls / Lighting / Projection | | | |
| DINING & FOOD SERVICE | | | 6,610 |
| Cafeteria / Student Lounge/ Break-out | 3,355 | 1 | 3,355 |
| Chair / Table Storage and other storage | 125 | 4 | 500 |
| Kitchen | 2,095 | 1 | 2,095 |
| Servery | | | |
| Staff Lunch Room | 570 | 1 | 570 |
| Kitchen Staff Toilet | 45 | 2 | 90 |

| PROPOSED | | | | | | Comments |
|-----------------------|----------|---------------|-----------------------|----------|---------------|-----------------------------|
| New | | | Total | | | |
| ROOM NFA ¹ | # OF RMS | area totals | ROOM NFA ¹ | # OF RMS | area totals | |
| | | 42,400 | | | 42,400 | |
| 950 | 29 | 27,550 | 950 | 29 | 27,550 | |
| 500 | 2 | 1,000 | 500 | 2 | 1,000 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 2,000 | 1 | 2,000 | 2,000 | 1 | 2,000 | |
| | | | | | | |
| 1,200 | 8 | 9,600 | 1,200 | 8 | 9,600 | |
| 200 | 4 | 800 | 200 | 4 | 800 | |
| | | | | | | |
| 250 | 1 | 250 | 250 | 1 | 250 | |
| | | | | | | |
| | | 9,650 | | | 9,650 | |
| 950 | 5 | 4,750 | 950 | 5 | 4,750 | |
| 950 | 1 | 950 | 950 | 1 | 950 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| 150 | 1 | 150 | 150 | 1 | 150 | |
| | | | | | | |
| | | 0 | | | 0 | |
| 500 | 0 | 0 | 500 | 0 | 0 | |
| 500 | 2 | 1,000 | 500 | 2 | 1,000 | |
| 950 | 1 | 950 | 950 | 1 | 950 | |
| 120 | 1 | 120 | 120 | 1 | 120 | |
| 250 | 1 | 250 | 250 | 1 | 250 | |
| 80 | 1 | 80 | 80 | 1 | 80 | |
| | | | | | | |
| | | 6,000 | | | 6,000 | |
| 1,200 | 2 | 2,400 | 1,200 | 2 | 2,400 | |
| 150 | 3 | 450 | 150 | 3 | 450 | |
| 1,500 | 1 | 1,500 | 1,500 | 1 | 1,500 | |
| 1,100 | 1 | 1,100 | 1,100 | 1 | 1,100 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| 75 | 2 | 150 | 75 | 2 | 150 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| | | | | | | |
| | | 10,850 | | | 10,850 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 950 | 2 | 1,900 | 950 | 2 | 1,900 | |
| 2,000 | 1 | 2,000 | 2,000 | 1 | 2,000 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 950 | 1 | 950 | 950 | 1 | 950 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| 1,200 | 1 | 1,200 | 1,200 | 1 | 1,200 | |
| | | | | | | |
| | | 23,090 | | | 23,090 | |
| 12,800 | 1 | 12,800 | 12,800 | 1 | 12,800 | |
| 2,000 | 1 | 2,000 | 2,000 | 1 | 2,000 | |
| 1,000 | 1 | 1,000 | 1,000 | 1 | 1,000 | |
| 300 | 1 | 300 | 300 | 1 | 300 | |
| 1,300 | 2 | 2,600 | 1,300 | 2 | 2,600 | |
| 1,300 | 2 | 2,600 | 1,300 | 2 | 2,600 | |
| 600 | 1 | 600 | 600 | 1 | 600 | |
| 150 | 1 | 150 | 150 | 1 | 150 | |
| 370 | 2 | 740 | 370 | 2 | 740 | |
| 300 | 1 | 300 | 300 | 1 | 300 | |
| | | | | | | |
| | | 7,000 | | | 7,000 | |
| 7,000 | 1 | 7,000 | 7,000 | 1 | 7,000 | Core for 1,100 |
| | | | | | | |
| | | 10,160 | | | 10,160 | |
| 7,260 | 1 | 7,260 | 7,260 | 1 | 7,260 | Core for 1,100 665 seats |
| 1,600 | 1 | 1,600 | 1,600 | 1 | 1,600 | |
| 500 | 1 | 500 | 500 | 1 | 500 | Core for 1,100 |
| 300 | 2 | 600 | 300 | 2 | 600 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| | | | | | | |
| | | 9,550 | | | 9,550 | |
| 5,500 | 1 | 5,500 | 5,500 | 1 | 5,500 | Core for 1,100 |
| 450 | 1 | 450 | 450 | 1 | 450 | Core for 1,100 |
| 2,400 | 1 | 2,400 | 2,400 | 1 | 2,400 | Core for 1,100 |
| 700 | 1 | 700 | 700 | 1 | 700 | Core for 1,100 |
| 500 | 1 | 500 | 500 | 1 | 500 | Core for 1,100 |

| MSBA Guidelines (900 Students) (refer to MSBA Educational Program & Space Standard Guidelines) | | | |
|---|----------|---------------|--|
| ROOM NFA ¹ | # OF RMS | area totals | Comments |
| | | 38,790 | |
| 950 | 29 | 27,550 | 850 SF min - 950 SF max |
| 500 | 2 | 1,000 | |
| | | | |
| 1,200 | 8 | 9,600 | Capacity 23 x 85% utilization = 20 Seats - 1 period / day / student |
| 80 | 8 | 640 | |
| | | | |
| | | 9,060 | |
| 950 | 6 | 5,700 | assumed 8% of pop. in self-contained SPED |
| | | | |
| 60 | 6 | 360 | |
| 500 | 3 | 1,500 | 1/2 size Genl. Clrm. |
| 500 | 3 | 1,500 | 1/2 size Genl. Clrm. |
| | | | |
| | | 4,700 | |
| 1,200 | 2 | 2,400 | Assumed use - 25% Population - 5 times/week |
| 150 | 2 | 300 | |
| 1,500 | 1 | 1,500 | Assumed use - 25% Population - 5 times/week |
| | | | |
| 200 | 1 | 200 | |
| 75 | 4 | 300 | |
| | | | |
| | | 12,800 | |
| 1,200 | 4 | 4,800 | Assumed use - 50% Population - 5 times/week |
| | | | |
| | | | |
| 2,000 | 4 | 8,000 | Assumed use - 50% Population - 5 times/week |
| | | | |
| | | 19,800 | |
| 10,000 | 1 | 10,000 | |
| 3,000 | 1 | 3,000 | |
| | | | |
| 300 | 1 | 300 | |
| | | | |
| 1,400 | 4 | 5,600 | |
| 500 | 1 | 500 | |
| 150 | 1 | 150 | |
| 250 | 1 | 250 | |
| | | | |
| | | 5,525 | |
| 5,525 | 1 | 5,525 | |
| | | | |
| | | 8,875 | |
| 6,000 | 1 | 6,000 | 2/3 Enrollment @ 10 SF/Seat - 750 seats MAX |
| 1,600 | 1 | 1,600 | |
| 475 | 1 | 475 | |
| 300 | 2 | 600 | |
| 200 | 1 | 200 | |
| | | | |
| | | 7,550 | |
| 4,500 | 1 | 4,500 | 3 seatings - 15SF per seat |
| 375 | 1 | 375 | |
| 2,200 | 1 | 2,200 | 1600 SF for first 300 + 1 SF/student Add'l |
| | | | |
| 475 | 1 | 475 | 20 SF/Occupant |

NEW GRAFTON HIGH SCHOOL
Final Space Summary

| ROOM TYPE | Existing Conditions | | |
|--|-----------------------|----------|----------------|
| | ROOM NFA ¹ | # OF RMS | area totals |
| MEDICAL | | | 335 |
| Medical Suite Toilet | 45 | 1 | 45 |
| Nurses' Office/Waiting Room | 250 | 1 | 250 |
| Interview Room | 40 | 1 | 40 |
| Examination Room / Resting | | | 0 |
| ADMINISTRATION & GUIDANCE | | | 2,360 |
| General Office / Waiting Room/Toilet | 560 | 1 | 560 |
| Teachers' Mail and Time Room | | | |
| Duplicating Room | 140 | 1 | 140 |
| Records Room | 75 | 1 | 75 |
| Principal's Office w/ Conference Area | 165 | 1 | 165 |
| Principal's Secretary / Waiting | | | |
| Assistant Principal's Office - AP1 | 155 | 1 | 155 |
| Assistant Principal's Office - AP2 | | | |
| Supervisory / Spare Office | | | |
| Conference Room | 210 | 1 | 210 |
| | | | |
| Guidance Office | 105 | 3 | 315 |
| Guidance Waiting Room | 465 | 1 | 465 |
| Guidance Storeroom | | | |
| Career Center | | | |
| Records Room | | | |
| | | | |
| Teachers Work Room | 275 | 1 | 275 |
| CUSTODIAL & MAINTENANCE | | | 1,125 |
| Custodian's Office | 350 | 1 | 350 |
| Custodian's Workshop | 160 | 1 | 160 |
| Custodian's Storage | 70 | 4 | 190 |
| Recycling Room / Trash | | | |
| Receiving and General Supply | | | |
| Storerooms throughout | 95 | 1 | 95 |
| Network/Telecom Room | 330 | 1 | 330 |
| OTHER | | | 0 |
| Student Activities Room | | | |
| School Store | | | |
| Computer Lab | | | |
| | | | |
| Total Building Net Floor Area (NFA) | | | 81,942 |
| Proposed Student Capacity/Enrollment | | | |
| | | | |
| Total Building Gross Floor Area (GFA) ² | | | 100,410 |
| Grossing factor (GFA/NFA) | | | 1.23 |

| PROPOSED | | | | | | Comments |
|-----------------------|----------|----------------|-----------------------|----------|----------------|----------------|
| New | | | Total | | | |
| ROOM NFA ¹ | # OF RMS | area totals | ROOM NFA ¹ | # OF RMS | area totals | |
| | | 910 | | | 910 | |
| 60 | 1 | 60 | 60 | 1 | 60 | |
| 250 | 1 | 250 | 250 | 1 | 250 | |
| 100 | 2 | 200 | 100 | 2 | 200 | |
| 100 | 4 | 400 | 100 | 4 | 400 | |
| | | 5,170 | | | 5,170 | |
| 550 | 1 | 550 | 550 | 1 | 550 | Core for 1,100 |
| 100 | 1 | 100 | 100 | 1 | 100 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| 200 | 1 | 200 | 200 | 1 | 200 | |
| 375 | 1 | 375 | 375 | 1 | 375 | |
| 125 | 1 | 125 | 125 | 1 | 125 | |
| 150 | 1 | 150 | 150 | 1 | 150 | |
| 150 | 1 | 150 | 150 | 1 | 150 | Core for 1,100 |
| 120 | 1 | 120 | 120 | 1 | 120 | |
| 450 | 1 | 450 | 450 | 1 | 450 | |
| | | | | | | |
| 150 | 5 | 750 | 150 | 5 | 750 | |
| 100 | 1 | 100 | 100 | 1 | 100 | |
| 100 | 1 | 100 | 100 | 1 | 100 | |
| 450 | 1 | 450 | 450 | 1 | 450 | Core for 1,100 |
| 150 | 1 | 150 | 150 | 1 | 150 | Core for 1,100 |
| | | | | | | |
| 400 | 3 | 1,200 | 400 | 3 | 1,200 | Core for 1,100 |
| | | 2,825 | | | 2,825 | |
| 150 | 1 | 150 | 150 | 1 | 150 | |
| 250 | 1 | 250 | 250 | 1 | 250 | |
| 375 | 1 | 375 | 375 | 1 | 375 | |
| 400 | 1 | 400 | 400 | 1 | 400 | |
| 400 | 1 | 400 | 400 | 1 | 400 | Core for 1,100 |
| 300 | 3 | 900 | 300 | 3 | 900 | Core for 1,100 |
| 350 | 1 | 350 | 350 | 1 | 350 | Core for 1,100 |
| | | 3,200 | | | 3,200 | |
| 950 | 1 | 950 | 950 | 1 | 950 | |
| 250 | 1 | 250 | 250 | 1 | 250 | |
| 1,000 | 2 | 2,000 | 1,000 | 2 | 2,000 | |
| | | | | | | |
| | | 130,805 | | | 130,805 | |
| | | 900 | | | 900 | |
| | | | | | | |
| | | 186,351 | | | 186,351 | |
| | | | | | | |
| | | 1.42 | | | 1.42 | |

| MSBA Guidelines (900 Students) (refer to MSBA Educational Program & Space Standard Guidelines) | | | |
|---|----------|----------------|----------------|
| ROOM NFA ¹ | # OF RMS | area totals | Comments |
| | | 910 | |
| 60 | 1 | 60 | |
| 250 | 1 | 250 | |
| 100 | 2 | 200 | |
| 100 | 4 | 400 | |
| | | 4,083 | |
| 450 | 1 | 450 | |
| 100 | 1 | 100 | |
| 200 | 1 | 200 | |
| 200 | 1 | 200 | |
| 375 | 1 | 375 | |
| 125 | 1 | 125 | |
| 150 | 1 | 150 | |
| 150 | 0 | - | |
| 120 | 1 | 120 | |
| 450 | 1 | 450 | |
| | | | |
| 150 | 5 | 750 | |
| 100 | 1 | 100 | |
| 100 | 1 | 100 | |
| 450 | 1 | 450 | Core for 1,100 |
| 150 | 1 | 150 | Core for 1,100 |
| | | | |
| 400 | 3 | 1,200 | Core for 1,100 |
| | | 2,300 | |
| 150 | 1 | 150 | |
| 250 | 1 | 250 | |
| 375 | 1 | 375 | |
| 400 | 1 | 400 | |
| 375 | 1 | 375 | |
| 550 | 1 | 550 | |
| 200 | 1 | 200 | |
| | | 0 | |
| | | | |
| | | 114,393 | |
| | | 900 | |
| | | | |
| | | 171,000 | |
| | | | |
| | | 1.49 | |

¹ 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.

² 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.

Indicates either Core for 1,100 students or Program Area outside the MSBA Guidelines

Name of Architect Firm:

Symmes Maini McKee Associates

Name of Principal Architect:

Philip J. Poinelli

Signature of Principal Architect:



Date:

December 17, 2009