North Middlesex Regional High School
Ashby, Pepperell, Townsend

April 29, 2013
AGENDA

- Existing Building Information
- Design Options
  - Code Upgrade Only
  - Addition/Renovation
  - New Construction
- Evaluation Process
- Capacity Analysis
- Schedule
HIGH SCHOOL RECENT RELEVANT EXPERIENCE | RENOVATIONS

Ayer-Shirley*
Bedford
Dennis-Yarmouth
Great Barrington*
Sharon
Winchester

*In Progress
HIGH SCHOOL RECENT RELEVANT EXPERIENCE | RENOVATIONS

Ayer-Shirley*
Bedford
Dennis-Yarmouth
Great Barrington*
Sharon
Winchester

*In Progress
<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>Option 1 Base Repair (No Build)</th>
<th>Option 2A Add/Reno 1</th>
<th>Option 2B Add/Reno 2</th>
<th>Option 3 All New</th>
<th>MSBA Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students **</td>
<td>870</td>
<td>870</td>
<td>870</td>
<td>870</td>
<td>870</td>
</tr>
<tr>
<td>Total Gross Area (Square Feet)</td>
<td>197,377 sf</td>
<td>175,740 sf</td>
<td>175,740 sf</td>
<td>175,740 sf</td>
<td>175,740 sf</td>
</tr>
<tr>
<td>Total Approximate Project Cost *</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approximate Construction Commencement Date</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approximate Construction Duration</td>
<td>___ months</td>
<td>___ months</td>
<td>___ months</td>
<td>___ months</td>
<td>___ months</td>
</tr>
<tr>
<td>Category</td>
<td>Existing HS</td>
<td>MSBA Guidelines for 870 Students</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------------------</td>
<td>----------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROSS AREA: Actual</td>
<td>197,377 sf</td>
<td>175,740 sf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classrooms / Teaching Spaces</td>
<td>58</td>
<td>47</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of classrooms sized smaller than 850 sf</td>
<td>31 (54%)</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of science rooms sized smaller than 1440 sf</td>
<td>10 (100%)</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auditorium Size</td>
<td>3,700 sf</td>
<td>5,800 sf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gymnasium Size</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 @ 10,050 sf</td>
<td></td>
<td>1 @ 12,000 sf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 @ 7,780 sf</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 @ 17,830 sf</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custodial/Maintenance</td>
<td>6,414 sf</td>
<td>2,278 sf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROOM TYPE</td>
<td>Existing Conditions</td>
<td>MSBA Guidelines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>---------------------</td>
<td>------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROOM TYPE</td>
<td>ROOM NFA</td>
<td># OF RMS</td>
<td>area totals</td>
<td>ROOM NFA</td>
<td># OF RMS</td>
</tr>
<tr>
<td>CORE ACADEMIC SPACES</td>
<td>44,083</td>
<td>44,976</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classroom - General (World Studies)</td>
<td>1,500</td>
<td>1</td>
<td>1,500</td>
<td>850</td>
<td>1</td>
</tr>
<tr>
<td>Classroom - General (World Studies)</td>
<td>1,440</td>
<td>1</td>
<td>1,440</td>
<td>850</td>
<td>1</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>850</td>
<td>3</td>
<td>2,550</td>
<td>850</td>
<td>3</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>780</td>
<td>2</td>
<td>1,560</td>
<td>650</td>
<td>2</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>750</td>
<td>6</td>
<td>4,500</td>
<td>650</td>
<td>6</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>730</td>
<td>9</td>
<td>6,570</td>
<td>670</td>
<td>9</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>730</td>
<td>9</td>
<td>6,570</td>
<td>670</td>
<td>9</td>
</tr>
<tr>
<td>Classroom - General</td>
<td>635</td>
<td>3</td>
<td>2,005</td>
<td>635</td>
<td>3</td>
</tr>
<tr>
<td>Teacher Planning</td>
<td>300</td>
<td>1</td>
<td>300</td>
<td>200</td>
<td>1</td>
</tr>
<tr>
<td>Small Group Seminar (28-39 seats)</td>
<td>90</td>
<td>0</td>
<td>90</td>
<td>90</td>
<td>0</td>
</tr>
<tr>
<td>Science Classroom / Lab (Chem/Physics)</td>
<td>1,895</td>
<td>4</td>
<td>7,580</td>
<td>1,440</td>
<td>8</td>
</tr>
<tr>
<td>Science Classroom / Lab (Biology)</td>
<td>925</td>
<td>3</td>
<td>2,775</td>
<td>850</td>
<td>3</td>
</tr>
<tr>
<td>Science Classroom / Lab (Biology)</td>
<td>900</td>
<td>1</td>
<td>900</td>
<td>850</td>
<td>1</td>
</tr>
<tr>
<td>Science Classroom / Lab (General)</td>
<td>850</td>
<td>1</td>
<td>850</td>
<td>850</td>
<td>1</td>
</tr>
<tr>
<td>Science Classroom / Lab (General)</td>
<td>635</td>
<td>1</td>
<td>635</td>
<td>635</td>
<td>1</td>
</tr>
<tr>
<td>Prep Room</td>
<td>345</td>
<td>1</td>
<td>345</td>
<td>200</td>
<td>1</td>
</tr>
<tr>
<td>Prep Room</td>
<td>240</td>
<td>1</td>
<td>240</td>
<td>200</td>
<td>1</td>
</tr>
<tr>
<td>Prep Room</td>
<td>165</td>
<td>1</td>
<td>165</td>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>Prep Room</td>
<td>70</td>
<td>1</td>
<td>70</td>
<td>70</td>
<td>1</td>
</tr>
<tr>
<td>Prep Room</td>
<td>50</td>
<td>1</td>
<td>50</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Central Chemical Storage Rm</td>
<td>95</td>
<td>1</td>
<td>95</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Department Office (Maths)</td>
<td>350</td>
<td>1</td>
<td>350</td>
<td>150</td>
<td>1</td>
</tr>
<tr>
<td>Department Office (Culture &amp; Humanities)</td>
<td>225</td>
<td>1</td>
<td>225</td>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>Department Office (Science)</td>
<td>210</td>
<td>1</td>
<td>210</td>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>Greenhouse</td>
<td>190</td>
<td>1</td>
<td>190</td>
<td>100</td>
<td>1</td>
</tr>
<tr>
<td>Science Storage</td>
<td>75</td>
<td>1</td>
<td>75</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Science Storage</td>
<td>50</td>
<td>1</td>
<td>50</td>
<td>50</td>
<td>1</td>
</tr>
<tr>
<td>Business Tech (PC Lab)</td>
<td>90</td>
<td>1</td>
<td>90</td>
<td>90</td>
<td>1</td>
</tr>
<tr>
<td>Computer Lab (Maths)</td>
<td>885</td>
<td>1</td>
<td>885</td>
<td>885</td>
<td>1</td>
</tr>
<tr>
<td>Computer Lab (Humanities)</td>
<td>685</td>
<td>1</td>
<td>685</td>
<td>685</td>
<td>1</td>
</tr>
<tr>
<td>Computer Lab (General)</td>
<td>1,040</td>
<td>1</td>
<td>1,040</td>
<td>1,040</td>
<td>1</td>
</tr>
<tr>
<td>SPECIAL EDUCATION</td>
<td>10,543</td>
<td>7,560</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self-Contained SPED - Life Skills 9-10</td>
<td>1,215</td>
<td>1</td>
<td>1,215</td>
<td>950</td>
<td>6</td>
</tr>
<tr>
<td>Self-Contained SPED - Academic Classroom</td>
<td>940</td>
<td>1</td>
<td>940</td>
<td>940</td>
<td>1</td>
</tr>
<tr>
<td>Self-Contained SPED - Academic Classroom</td>
<td>750</td>
<td>1</td>
<td>750</td>
<td>750</td>
<td>1</td>
</tr>
<tr>
<td>Self-Contained SPED - Life Skills 11-12</td>
<td>340</td>
<td>1</td>
<td>340</td>
<td>340</td>
<td>1</td>
</tr>
<tr>
<td>Self-Contained SPED Toilet</td>
<td>200</td>
<td>1</td>
<td>200</td>
<td>200</td>
<td>1</td>
</tr>
<tr>
<td>Small Group Instruction/Academic Support</td>
<td>845</td>
<td>2</td>
<td>1,690</td>
<td>60</td>
<td>6</td>
</tr>
<tr>
<td>OT/PT &amp; Adaptive Phys Ed</td>
<td>890</td>
<td>1</td>
<td>890</td>
<td>890</td>
<td>1</td>
</tr>
<tr>
<td>Reading/Academic Support</td>
<td>840</td>
<td>1</td>
<td>840</td>
<td>840</td>
<td>1</td>
</tr>
<tr>
<td>Academic Support/Therapeutic Learning</td>
<td>770</td>
<td>3</td>
<td>2,310</td>
<td>770</td>
<td>3</td>
</tr>
<tr>
<td>Academic Support/Therapeutic Learning</td>
<td>245</td>
<td>1</td>
<td>245</td>
<td>245</td>
<td>1</td>
</tr>
<tr>
<td>Resource Room</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>Small Group Room</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>SPED Dept Office</td>
<td>210</td>
<td>1</td>
<td>210</td>
<td>210</td>
<td>1</td>
</tr>
<tr>
<td>School Store</td>
<td>390</td>
<td>1</td>
<td>390</td>
<td>390</td>
<td>1</td>
</tr>
</tbody>
</table>
## NORTH MIDDLESEX RHS

### Existing Conditions

<table>
<thead>
<tr>
<th>ART &amp; MUSIC</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Classroom - 25 seats</td>
<td>1,685</td>
<td>3</td>
<td>2,177</td>
</tr>
<tr>
<td>Art Workroom w/storage &amp; Mfh</td>
<td>140</td>
<td>3</td>
<td>2,200</td>
</tr>
<tr>
<td>Band - 50 - 100 seats</td>
<td>1,540</td>
<td>1</td>
<td>1,540</td>
</tr>
<tr>
<td>Chorus - 50 - 100 seats</td>
<td>1,545</td>
<td>1</td>
<td>1,545</td>
</tr>
<tr>
<td>Ensemble</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Music Practice</td>
<td>110</td>
<td>1</td>
<td>110</td>
</tr>
<tr>
<td>Band Storage</td>
<td>860</td>
<td>1</td>
<td>860</td>
</tr>
<tr>
<td>Music Storage</td>
<td>145</td>
<td>2</td>
<td>290</td>
</tr>
<tr>
<td>Music Storage</td>
<td>190</td>
<td>1</td>
<td>190</td>
</tr>
<tr>
<td>Music Storage</td>
<td>190</td>
<td>1</td>
<td>190</td>
</tr>
<tr>
<td>Music Storage</td>
<td>65</td>
<td>1</td>
<td>65</td>
</tr>
<tr>
<td>Music Classroom (music instruction)</td>
<td>315</td>
<td>1</td>
<td>315</td>
</tr>
<tr>
<td>Music Lab/Music Theory</td>
<td>1,540</td>
<td>1</td>
<td>1,540</td>
</tr>
<tr>
<td>Music Office (Band)</td>
<td>620</td>
<td>1</td>
<td>625</td>
</tr>
<tr>
<td>Music Office (Chorus)</td>
<td>125</td>
<td>1</td>
<td>125</td>
</tr>
<tr>
<td>Graphic Design (Mac Lab)</td>
<td>1,490</td>
<td>1</td>
<td>1,490</td>
</tr>
</tbody>
</table>

### Vocational & Technology

<table>
<thead>
<tr>
<th>Vocations &amp; Technology</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tech CLC - (Practical &amp; CADD)</td>
<td>2,200</td>
<td>1</td>
<td>2,200</td>
</tr>
<tr>
<td>Tech Shop - (Construction Lab)</td>
<td>3,615</td>
<td>1</td>
<td>3,615</td>
</tr>
<tr>
<td>Tech Office</td>
<td>2</td>
<td>328</td>
<td></td>
</tr>
<tr>
<td>TV Studio</td>
<td>770</td>
<td>1</td>
<td>770</td>
</tr>
</tbody>
</table>

### Health & Physical Education

<table>
<thead>
<tr>
<th>Health &amp; Physical Education</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gymnasium</td>
<td>5,555</td>
<td>1</td>
<td>5,555</td>
</tr>
<tr>
<td>PE Office</td>
<td>390</td>
<td>1</td>
<td>390</td>
</tr>
<tr>
<td>P.E. Office</td>
<td>190</td>
<td>2</td>
<td>380</td>
</tr>
<tr>
<td>P.E. Office</td>
<td>150</td>
<td>1</td>
<td>150</td>
</tr>
</tbody>
</table>

### Media Center

<table>
<thead>
<tr>
<th>Media Center</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Center Reading Room</td>
<td>5,370</td>
<td>1</td>
<td>5,370</td>
</tr>
<tr>
<td>Media Center Workroom</td>
<td>135</td>
<td>1</td>
<td>135</td>
</tr>
<tr>
<td>Media Center Office</td>
<td>180</td>
<td>1</td>
<td>180</td>
</tr>
</tbody>
</table>

### Auditorium / Drama

<table>
<thead>
<tr>
<th>Auditorium / Drama</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auditorium</td>
<td>3,700</td>
<td>1</td>
<td>3,700</td>
</tr>
<tr>
<td>Stage</td>
<td>1,385</td>
<td>1</td>
<td>1,385</td>
</tr>
<tr>
<td>Auditorium Storage</td>
<td>90</td>
<td>1</td>
<td>90</td>
</tr>
<tr>
<td>Makeup / Dressing Rooms</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Controls / Lighting / Projection</td>
<td>430</td>
<td>1</td>
<td>430</td>
</tr>
</tbody>
</table>

### Dining & Food Service

<table>
<thead>
<tr>
<th>Dining &amp; Food Service</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cafeteria / Student Lounge / Break-Out</td>
<td>2,820</td>
<td>2</td>
<td>5,640</td>
</tr>
<tr>
<td>Cafeteria Storage</td>
<td>200</td>
<td>1</td>
<td>200</td>
</tr>
<tr>
<td>Cafeteria / Student Lounge / Break-Out</td>
<td>2,820</td>
<td>2</td>
<td>5,640</td>
</tr>
<tr>
<td>Chef / Table Storage</td>
<td>365</td>
<td>1</td>
<td>365</td>
</tr>
<tr>
<td>Scullery / Catering Area</td>
<td>1,888,275</td>
<td>3</td>
<td>5,352,835</td>
</tr>
<tr>
<td>Kitchen</td>
<td>900</td>
<td>1</td>
<td>900</td>
</tr>
<tr>
<td>Staff Lunch Room</td>
<td>468</td>
<td>1</td>
<td>468</td>
</tr>
<tr>
<td>Kitchen Office / Lockers</td>
<td>165</td>
<td>1</td>
<td>165</td>
</tr>
</tbody>
</table>

### MSBA Guidelines

<table>
<thead>
<tr>
<th>MSBA Guidelines</th>
<th>ROOM</th>
<th># of RNS</th>
<th>area totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Classroom - 25 seats</td>
<td>1,500</td>
<td>2</td>
<td>3,000</td>
</tr>
<tr>
<td>Art Workroom w/storage &amp; Mfh</td>
<td>150</td>
<td>2</td>
<td>300</td>
</tr>
<tr>
<td>Band - 50 - 100 seats</td>
<td>1,500</td>
<td>1</td>
<td>1,500</td>
</tr>
<tr>
<td>Chorus - 50 - 100 seats</td>
<td>1,500</td>
<td>1</td>
<td>1,500</td>
</tr>
<tr>
<td>Ensemble</td>
<td>150</td>
<td>1</td>
<td>150</td>
</tr>
<tr>
<td>Music Practice</td>
<td>75</td>
<td>4</td>
<td>300</td>
</tr>
<tr>
<td>Band Storage</td>
<td>150</td>
<td>1</td>
<td>150</td>
</tr>
<tr>
<td>Music Storage</td>
<td>290</td>
<td>1</td>
<td>290</td>
</tr>
<tr>
<td>Music Storage</td>
<td>190</td>
<td>1</td>
<td>190</td>
</tr>
<tr>
<td>Music Storage</td>
<td>190</td>
<td>1</td>
<td>190</td>
</tr>
<tr>
<td>Music Storage</td>
<td>65</td>
<td>1</td>
<td>65</td>
</tr>
<tr>
<td>Music Classroom (music instruction)</td>
<td>315</td>
<td>1</td>
<td>315</td>
</tr>
<tr>
<td>Music Lab/Music Theory</td>
<td>1,540</td>
<td>1</td>
<td>1,540</td>
</tr>
<tr>
<td>Music Office (Band)</td>
<td>620</td>
<td>1</td>
<td>625</td>
</tr>
<tr>
<td>Music Office (Chorus)</td>
<td>125</td>
<td>1</td>
<td>125</td>
</tr>
<tr>
<td>Graphic Design (Mac Lab)</td>
<td>1,490</td>
<td>1</td>
<td>1,490</td>
</tr>
<tr>
<td>Tech CLC - (Practical &amp; CADD)</td>
<td>1,200</td>
<td>3</td>
<td>3,600</td>
</tr>
<tr>
<td>Tech Shop - (Construction Lab)</td>
<td>3,600</td>
<td>1</td>
<td>3,600</td>
</tr>
<tr>
<td>Tech Office</td>
<td>2,010</td>
<td>3</td>
<td>6,000</td>
</tr>
<tr>
<td>TV Studio</td>
<td>770</td>
<td>1</td>
<td>770</td>
</tr>
<tr>
<td>Gymnasium</td>
<td>12,000</td>
<td>1</td>
<td>12,000</td>
</tr>
<tr>
<td>PE Office</td>
<td>300</td>
<td>1</td>
<td>300</td>
</tr>
<tr>
<td>P.E. Office</td>
<td>150</td>
<td>1</td>
<td>150</td>
</tr>
<tr>
<td>P.E. Office</td>
<td>350</td>
<td>1</td>
<td>350</td>
</tr>
<tr>
<td>P.E. Office</td>
<td>190</td>
<td>2</td>
<td>380</td>
</tr>
<tr>
<td>Media Center Reading Room</td>
<td>5,370</td>
<td>1</td>
<td>5,370</td>
</tr>
<tr>
<td>Media Center Workroom</td>
<td>135</td>
<td>1</td>
<td>135</td>
</tr>
<tr>
<td>Media Center Office</td>
<td>180</td>
<td>1</td>
<td>180</td>
</tr>
<tr>
<td>Auditorium</td>
<td>3,700</td>
<td>1</td>
<td>3,700</td>
</tr>
<tr>
<td>Stage</td>
<td>1,385</td>
<td>1</td>
<td>1,385</td>
</tr>
<tr>
<td>Auditorium Storage</td>
<td>90</td>
<td>1</td>
<td>90</td>
</tr>
<tr>
<td>Makeup / Dressing Rooms</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Controls / Lighting / Projection</td>
<td>430</td>
<td>1</td>
<td>430</td>
</tr>
<tr>
<td>Cafeteria / Student Lounge / Break-Out</td>
<td>2,820</td>
<td>2</td>
<td>5,640</td>
</tr>
<tr>
<td>Cafeteria Storage</td>
<td>200</td>
<td>1</td>
<td>200</td>
</tr>
<tr>
<td>Cafeteria / Student Lounge / Break-Out</td>
<td>2,820</td>
<td>2</td>
<td>5,640</td>
</tr>
<tr>
<td>Chef / Table Storage</td>
<td>365</td>
<td>1</td>
<td>365</td>
</tr>
<tr>
<td>Scullery / Catering Area</td>
<td>1,888,275</td>
<td>3</td>
<td>5,352,835</td>
</tr>
<tr>
<td>Kitchen</td>
<td>900</td>
<td>1</td>
<td>900</td>
</tr>
<tr>
<td>Staff Lunch Room</td>
<td>468</td>
<td>1</td>
<td>468</td>
</tr>
<tr>
<td>Kitchen Office / Lockers</td>
<td>165</td>
<td>1</td>
<td>165</td>
</tr>
</tbody>
</table>

### Comments

- Assumed per - 25% Population - 5 Years Ahead
- Assumed per - 20% Population - 5 Years Ahead
- 5 sq ft = 1 sf
- 10 sq ft = 1 sf
- 10 sq ft = 1 sf
- 10 sq ft = 1 sf
- 10 sq ft = 1 sf
- 10 sq ft = 1 sf
- 10 sq ft = 1 sf
<table>
<thead>
<tr>
<th>ROOM TYPE</th>
<th>EXISTING CONDITIONS</th>
<th>MSBA GUIDELINES</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROOM NFA</td>
<td># OF RMS</td>
<td>AREA TOTALS</td>
</tr>
<tr>
<td>MEDICAL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Suite Toilet</td>
<td>20</td>
<td>2</td>
</tr>
<tr>
<td>Nurse/Office/Waiting Room</td>
<td>315</td>
<td>1</td>
</tr>
<tr>
<td>Intervenor Room</td>
<td>140</td>
<td>1</td>
</tr>
<tr>
<td>Examination Room/Rasting</td>
<td>245</td>
<td>1</td>
</tr>
<tr>
<td>ADMINISTRATION &amp; GUIDANCE</td>
<td>5,697</td>
<td></td>
</tr>
<tr>
<td>General Office/Waiting Room/Toilet</td>
<td>11</td>
<td>1</td>
</tr>
<tr>
<td>Teachers’ Mail and Time Room</td>
<td>95</td>
<td>1</td>
</tr>
<tr>
<td>Duplexing Room</td>
<td>45</td>
<td>1</td>
</tr>
<tr>
<td>Records Room</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Principal’s Office w/Conference Area</td>
<td>2</td>
<td>424</td>
</tr>
<tr>
<td>Principal’s Secretary/Waiting</td>
<td>2</td>
<td>629</td>
</tr>
<tr>
<td>Assistant Principal’s Office – AP1</td>
<td>106</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Principal’s Office – AP2</td>
<td>70</td>
<td>1</td>
</tr>
<tr>
<td>Supervisory/Spans Office</td>
<td>3</td>
<td>269</td>
</tr>
<tr>
<td>Conference Room</td>
<td>620</td>
<td>1</td>
</tr>
<tr>
<td>Guidance Office</td>
<td>4</td>
<td>725</td>
</tr>
<tr>
<td>Guidance/Walling Room</td>
<td>490</td>
<td>1</td>
</tr>
<tr>
<td>Guidance Storeroom</td>
<td>4</td>
<td>62</td>
</tr>
<tr>
<td>Career Center</td>
<td>277</td>
<td>1</td>
</tr>
<tr>
<td>Records Room</td>
<td>1</td>
<td>83</td>
</tr>
<tr>
<td>Teacher Work Room</td>
<td>500</td>
<td>1</td>
</tr>
<tr>
<td>Teacher Work Room</td>
<td>325</td>
<td>1</td>
</tr>
<tr>
<td>CUSTODIAL &amp; MAINTENANCE</td>
<td>6,414</td>
<td></td>
</tr>
<tr>
<td>Custodians Office</td>
<td>450</td>
<td>1</td>
</tr>
<tr>
<td>Custodians Workshop</td>
<td>760</td>
<td>1</td>
</tr>
<tr>
<td>Maintenance Workshop</td>
<td>1,020</td>
<td>1</td>
</tr>
<tr>
<td>Custodians Storage</td>
<td>7</td>
<td>1,898</td>
</tr>
<tr>
<td>Recycling Room/Trash</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Receiving and General Supply</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Storage</td>
<td>1,089</td>
<td>1</td>
</tr>
<tr>
<td>Network/Telecom Room</td>
<td>5</td>
<td>491</td>
</tr>
<tr>
<td>Custodial Closets</td>
<td>13</td>
<td>717</td>
</tr>
<tr>
<td>OTHER</td>
<td>2,313</td>
<td></td>
</tr>
<tr>
<td>General Storage</td>
<td>17</td>
<td>2,313</td>
</tr>
<tr>
<td>Total Building Net Floor Area (NFA)</td>
<td>144,361</td>
<td></td>
</tr>
<tr>
<td>Proposed Student Capacity/Enrollment</td>
<td>870</td>
<td></td>
</tr>
<tr>
<td>Total Building Gross Floor Area (GFA)</td>
<td>197,377</td>
<td></td>
</tr>
<tr>
<td>Grossing factor (GFA/NFA)</td>
<td>1.46</td>
<td></td>
</tr>
</tbody>
</table>
EXISTING PROGRAM SPACES

- > 20% undersized
- 10-20% undersized
TWO SCHOOL BUILDINGS

1971 – Junior HS

1959 – Original HS

Entrance Confusion

Existing Floor Plans
EXISTING BUILDING
“THE LABYRINTH”
ADMINISTRATION SUITES
ENCLOSED COURTYARDS
Existing Floor Plans

**Accessibility**

**Areas that do not meet current ADA/MAAB Standards**

**NOTES:**
- Door hardware does not meet current standards, typical
- Casework is not accessible, typical
- No accessible science lab stations provided

---

**SMMA**
RENOVATION CHALLENGES: AIR QUALITY

- Rooftop Air Handling Unit
- Sidewall Diffusers

May Require Reuse of Unit Ventilators

Dimensions:
- 7' - 8"
- 2' - 6"
Existing Floor Plans

Circulation

- **Narrow Corridors**

- **Isolated Public Lobbies**

- **Travel Distance**
  
  *(over 500 feet!!)*
5’ clearance

\leq 8’-0” clearance
HIGH PERFORMANCE ENVELOPE: ENERGY EFFICIENCY

Existing Roof
R Value:____

Existing Metal Panels

Existing Windows
R Value:____

Existing Metal Panels

Existing Foundation Wall
HIGH PERFORMANCE ENVELOPE

- Membrane Roof
- Existing Roof Deck
- Light Gauge Stud Framing
- 6 to 8 Inches insulation
- Thermally Enhanced Metal Window
- Air Barrier
- 3 to 4 Inches Insulation
- Sub-Girt System
- 2 Inches Foundation Insulation
- Metal Panel or Composite Panels
- 2 Inches Foundation Insulation
Existing Double Loaded Corridor
Renovations for 21st Century Learning
ADDITION / RENOVATION OPTIONS

Options 2A & 2B
Option 2A – First Floor Plan
Option 2B – First Floor Plan
EXISTING BUILDING

Option 1
Code Upgrade
Option 2
Addition/Renovation

EXISTING BUILDING
Option 2B

ADDITION/RENOVATION
Option 2B

ADDITION/RENOVATION
Option 2B
Addition/Renovation
NEW CONSTRUCTION

Educational Planning

POD or Cluster Plan
Option 3A
New Construction
Option 3A
New Construction
Option 3A
New Construction
Option 3B
New Construction
Option 3B
New Construction
Option 3B
New Construction
Option 3B
New Construction

Rte 119
Option 3C
New Construction
Option 3C
New Construction
## District Capacity Analysis - If used as High School

<table>
<thead>
<tr>
<th>School Name</th>
<th>Room Qty</th>
<th>% of Average Classroom Size</th>
<th>Design Capacity</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NMR High School - Proposed</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 9</td>
<td>8</td>
<td>100%</td>
<td>192</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 10</td>
<td>8</td>
<td>100%</td>
<td>192</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 11</td>
<td>7</td>
<td>100%</td>
<td>188</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 12</td>
<td>7</td>
<td>100%</td>
<td>188</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>28</td>
<td></td>
<td></td>
<td>28</td>
</tr>
<tr>
<td><strong>NMR High School - Current</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 9</td>
<td>9</td>
<td>94%</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 10</td>
<td>9</td>
<td>94%</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 11</td>
<td>9</td>
<td>94%</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 12</td>
<td>9</td>
<td>94%</td>
<td>203</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>36</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hawthorne Brook Middle School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 5</td>
<td>6</td>
<td>122%</td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 6</td>
<td>6</td>
<td>117%</td>
<td>159</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 7</td>
<td>6</td>
<td>117%</td>
<td>159</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 8</td>
<td>6</td>
<td>112%</td>
<td>146</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hicksville High School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 5</td>
<td>6</td>
<td>122%</td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 6</td>
<td>6</td>
<td>117%</td>
<td>159</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 7</td>
<td>5</td>
<td>117%</td>
<td>146</td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grade 8</td>
<td>6</td>
<td>108%</td>
<td>158</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>24</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposed/Current Enrollment</th>
<th>Town</th>
<th>Building Age</th>
<th>Building Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>870</td>
<td>Townsend</td>
<td>TBD</td>
<td>175,740</td>
</tr>
<tr>
<td>1,000</td>
<td>Townsend</td>
<td>1950-1970</td>
<td>197,360</td>
</tr>
<tr>
<td>503</td>
<td>Townsend</td>
<td>1977</td>
<td>99,500</td>
</tr>
<tr>
<td>621</td>
<td>Peppertown</td>
<td>2002</td>
<td>127,517</td>
</tr>
</tbody>
</table>
## District Capacity Analysis - If used as High School

<table>
<thead>
<tr>
<th>School Name</th>
<th>Room Qty.</th>
<th>% of Average Classroom Size</th>
<th>Design Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashby Elementary School</td>
<td>3</td>
<td>100%</td>
<td>72</td>
</tr>
<tr>
<td>Kindergarten</td>
<td>2</td>
<td>52%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 1</td>
<td>2</td>
<td>81%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 2</td>
<td>2</td>
<td>92%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 3</td>
<td>2</td>
<td>100%</td>
<td>51</td>
</tr>
<tr>
<td>General Classrooms - Condensed</td>
<td>6</td>
<td>88%</td>
<td>124</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spaulding Memorial School</td>
<td>4</td>
<td>60%</td>
<td>65</td>
</tr>
<tr>
<td>Kindergarten</td>
<td>2</td>
<td>50%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 1</td>
<td>2</td>
<td>81%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 2</td>
<td>2</td>
<td>92%</td>
<td>44</td>
</tr>
<tr>
<td>General Classrooms - Grade 3</td>
<td>2</td>
<td>100%</td>
<td>51</td>
</tr>
<tr>
<td>General Classrooms - Grade 4</td>
<td>4</td>
<td>83%</td>
<td>69</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vanern Brook Elementary</td>
<td>5</td>
<td>126%</td>
<td>153</td>
</tr>
<tr>
<td>Kindergarten</td>
<td>7</td>
<td>100%</td>
<td>183</td>
</tr>
<tr>
<td>General Classrooms - Grade 1</td>
<td>7</td>
<td>55%</td>
<td>137</td>
</tr>
<tr>
<td>General Classrooms - Grade 2</td>
<td>6</td>
<td>83%</td>
<td>119</td>
</tr>
<tr>
<td>General Classrooms - Grade 3</td>
<td>6</td>
<td>83%</td>
<td>149</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Squannacook Early Childhood Center</td>
<td>8</td>
<td>115%</td>
<td>184</td>
</tr>
<tr>
<td>Pre-Kindergarten</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Unused</td>
<td>11</td>
<td>55%</td>
<td>203</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>19</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Fitchfield School</td>
<td>5</td>
<td>115%</td>
<td>113</td>
</tr>
<tr>
<td>Kindergarten</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Classrooms - Grades 1-6</td>
<td>28</td>
<td>84%</td>
<td>539</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAR</td>
<td>APR</td>
<td>MAY</td>
<td>JUN</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feasibility Study</td>
<td>Preliminary Design Program (PDP)</td>
<td>Preferred Schematic Report (PSR)</td>
<td>• MSBA to approve PSR</td>
</tr>
<tr>
<td>Schematic Design</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Town Votes</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Schedule**
Thank you