

## Project Minutes

Project: New Stoneham High School Project No.: 20033  
 Prepared by: Joel Seeley Meeting Date: 12/20/2021  
 Re: School Building Committee Meeting Time: 7:00pm  
 Location: Central Middle School Library and Remote Participation Meeting No: 37  
 Distribution: Attendees (MF)

## Attendees:

| PRESENT         | NAME               | AFFILIATION  | VOTING MEMBER     |
|-----------------|--------------------|--|-------------------|
| ✓               | Marie Christie     | Co-Chair, School Building Committee  | Voting Member     |
| ✓               | David Bois         | Co-Chair, School Building Committee; Community Member with Architecture Experience                           | Voting Member     |
| Attended Remote | Nicole Nial        | School Committee Member  | Voting Member     |
| Attended Remote | Raymie Parker      | Select Board Member  | Voting Member     |
| ✓               | Douglas Gove       | Community Member with Engineering Experience   | Voting Member     |
| ✓               | Stephen O'Neill    | Vice-Chair, Community Member with Engineering Experience   | Voting Member     |
| ✓               | Josephine Thomson  | Community Member   | Voting Member     |
| Attended Remote | Jeanne Craigie     | Town Moderator   | Voting Member     |
|                 | Lisa Gallagher     | Community Member, School Secretary, Past member of Middle School Building Committee                          | Voting Member     |
|                 | Sharon Iovanni     | Community Member   | Voting Member     |
| Attended Remote | Cory Mashburn      | Community Member, Finance and Advisory Board   | Voting Member     |
|                 | Paul Ryder         | Community Member with Construction Experience  | Voting Member     |
| ✓               | David Pignone      | Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility | Voting Member     |
| ✓               | Kevin Yianacopolus | Local Official responsible for Building Maintenance  | Voting Member     |
| ✓               | Dennis Sheehan     | Town Administrator / MCPPO Certified   | Non-Voting Member |
| Attended Remote | John Macero        | Superintendent of Schools, Secretary of School Building Committee  | Non-Voting Member |
| Attended Remote | Bryan Lombardi     | Stoneham High School Principal   | Non-Voting Member |
| ✓               | Brian McNeil       | Town Facilities Director   | Non-Voting Member |
|                 | April Lanni        | Town Procurement Officer / MCPPO Certified   | Non-Voting Member |
| Attended Remote | Brooke Trivas      | Perkins and Will   |                   |
| Attended Remote | Patrick Cunningham | Perkins and Will   |                   |
| Attended Remote | David Warner       | Warner Larson  |                   |
| ✓               | Kristy Lyons       | Consigli Construction  |                   |
| ✓               | Todd McCabe        | Consigli Construction  |                   |
| ✓               | Robert Smith       | SMMA   |                   |
| ✓               | Joel Seeley        | SMMA   |                   |

| Item # | Action                                  | Discussion   |
|--------|---|--|
| 37.1   | Record                                  | Call to Order, 7:00 PM, meeting opened.  |
| 37.2   | Record                                  | This meeting will be a hybrid meeting held both via video conference and in person and a recording of such will be posted on the Town's website.   |
| 37.3   | Record                                  | A motion was made by S. O'Neill and seconded by J. Thomson to approve the 12/6/21 School Building Committee meeting minutes. No discussion, motion passed unanimous, one abstention.   |
| 37.4   | T. McCabe                               | T. McCabe to confirm when the final entry/exit driveway configuration will be constructed and if the access from Boxwood Road would remain during construction. <i>(from prior meeting)</i>  |
| 37.5   | B. Trivas                               | B. Trivas to review if the existing flagpole will need to be temporarily relocated to be out of the construction area? <i>(from prior meeting)</i>   |
| 37.6   | B. Trivas                               | B. Trivas to provide a plan indicating the location of the proposed geotechnical borings and test pits to B. McNeil and B. Lombardi for coordination. <i>(from prior meeting)</i>  |
| 37.7   | B. Trivas                               | B. Trivas to provide a layout of delivery trucks and dumpsters at the loading dock for review. <i>(from prior meeting)</i>   |
| 37.8   | P. Cunningham                           | P. Cunningham to confirm the corridors in the Administration Suite have been checked for dead-ends and common paths of travel. <i>(from prior meeting)</i>   |
| 37.9   | P. Cunningham                           | P. Cunningham to confirm if a fourth exit is required from the Auditorium. <i>(from prior meeting)</i>   |
| 37.10  | P. Cunningham<br>D. Warner<br>Committee | <p>P. Cunningham and D. Warner reviewed the Site Design Update, Health and Physical Education Programming Notes, and SSBC DD Phase Comments Log, all attached.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"> <li>1. J. Craigie asked that the playfields be gender neutral.<br/><i>D. Pignone indicated all the playfields are gender neutral except the boys and girls lacrosse, which are lined differently.</i></li> <li>2. R. Parker indicated the Conservation Commission has applied for a grant to install paths in the portion of the Fells behind the high school and asked if the design team has been provided a copy of the concept plan to coordinate with?<br/><i>B. Trivas indicated yes, the concept plan has been provided to Perkins&amp;Will.</i></li> <li>3. B. McNeil asked if an irrigation system is being provided in the planting islands and general landscape areas?</li> </ol> |

| Item # | Action | Discussion   |
|--------|--------|--|
|        |        | <p><i>D. Warner indicated an irrigation system is not being provided in the planting islands and general landscape areas.</i></p> <p>4. B. McNeil asked if a list of trees can be provided for review?<br/> <i>D. Warner indicated yes, but currently the list is a work in progress.</i></p> <p>5. J. Macero asked if the contractor will have any maintenance obligations beyond the one-year warranty period?<br/> <i>D. Warner indicated no.</i></p> <p>6. J. Craigie asked that any trees potentially located close to the building have long-term maintenance and safety issues considered.</p> <p>7. B. McNeil requests due to maintenance concerns, oak trees should not be planted close building entrances.</p> <p>8. M. Christie asked if the auditorium exterior wall will still serve as the projection wall for an outdoor theater?<br/> <i>P. Cunningham indicated that due to sloping grades, a portable screen would be recommended to be used at the outdoor amphitheater in lieu of using the auditorium exterior wall.</i></p> <p>9. J. Macero requests that further discussion and review be had with the Committee prior deciding to use portable screens in lieu of the auditorium exterior wall.<br/> <i>P. Cunningham agreed and will provide a detailed review of the sloped grading for Committee review.</i></p> <p>10. R. Parker asked if the bollards at the front drop-off area will impede emergency response vehicles?<br/> <i>D. Warner indicated no, the placement of the bollards will be reviewed and some of the bollards may be removable.</i></p> <p>11. R. Parker asked if Japanese Dogwoods, similar to the existing Japanese Dogwoods along the front entry drive, will be provided?<br/> <i>D. Warner indicated that some Japanese Dogwoods are being planned for closer to Franklin Place and a layout will be provided for Committee review.</i></p> <p>12. D. Sheehan asked what is the approach used to determine the layout of the sidewalks to avoid future cut-thru paths through the grass?<br/> <i>D. Warner indicated the sidewalks were laid out with visual connection in mind, with boundaries reinforced by landforms, plantings and seat walls.</i></p> <p>The Committee to forward any additional comments to J. Seeley to compile and forward to the design team.</p> |

| Item # | Action    | Discussion  |
|--------|-----------|---|
| 37.11  | T. McCabe | <p>T. McCabe reviewed the Market Outlook: October 2021, attached, from Consigli, indicating trends in product availability and pricing challenges. Consigli is in the process of updating the Schematic Design estimate to reflect the unit rate changes seen over the past six months in the K-12 school construction market. The updated Schematic Design estimate will be presented to the Committee at the 1/10/22 meeting along with next step strategies.</p> <p>Committee Discussion:</p> <ol style="list-style-type: none"><li data-bbox="511 661 1421 871">1. R. Parker asked how different are pre-COVID material lead times from the trending material lead times?<br/><i>T. McCabe indicated typically Steel Joists were 12-14 weeks, now 40 weeks; Steel Deck was 10-12 weeks, now 26 weeks; MEP Equipment was 6-12 weeks, now 24 weeks; and Roofing insulation was 4 weeks, now 24 weeks.</i></li><li data-bbox="511 882 1421 1018">2. R. Parker asked will the extended material lead times delay the project?<br/><i>T. McCabe indicated it is too early to tell, Consigli and Perkins&amp;Will are reviewing the scopes of the early packages to mitigate project delays and cost impacts due to material availability.</i></li><li data-bbox="511 1029 1421 1144">3. J. Craigie asked if materials are procured early, where can they be stored?<br/><i>T. McCabe indicated the optimum strategy will be to procure as early as possible without incurring added storage or handling costs.</i></li><li data-bbox="511 1155 1421 1291">4. D. Bois asked if Consigli can present the overall schedule including procurement?<br/><i>T. McCabe indicated yes, Consigli is currently updating the overall schedule and will present to the Committee for review.</i></li><li data-bbox="511 1302 1421 1438">5. D. Bois asked if Consigli can factor in reasonable forecasting to the unit rates, considering the initial spike that lumber went thru and which is now trending with negative escalation.<br/><i>T. McCabe indicated yes, Consigli will factor in.</i></li><li data-bbox="511 1449 1421 1627">6. D. Bois asked if Consigli can review the scope of the Bid Packages to create greater bidder interest thru the package size or scope as a means of mitigating cost impacts?<br/><i>T. McCabe indicated yes, Consigli is currently reviewing the scope and size of the Bid Packages with Perkins&amp;Will.</i></li><li data-bbox="511 1638 1421 1749">7. T. McCabe indicated Consigli will also reach out to the subcontracting community to create bidder interest and will also review what other K-12 projects are bidding along the same timeline as this project.</li></ol> |

| Item # | Action    | Discussion  |
|--------|-----------|---|
|        |           | <p>8. D. Bois asked if the SD Estimate Refresh will include the scope refinements that Perkins&amp;Will have presented so far in the DD Phase?<br/> <i>T. McCabe indicated no, the SD Estimate Refresh will be based on the SD Scope. The 10% Design and Estimating Contingency is meant to address ongoing design refinements in the DD and CD phases.</i></p>   |
| 37.12  | J. Seeley | <p><b>Subcommittee Updates</b></p> <ol style="list-style-type: none"> <li>1. J. Seeley reviewed the 12/6/21 Green Building Initiatives Meeting Minutes, attached.</li> <li>2. J. Seeley reviewed the 12/6/21 PR Subcommittee Meeting Minutes, attached.</li> <li>3. J. Seeley reviewed the Working Groups and Subcommittees Listing, attached.             <ol style="list-style-type: none"> <li>a. J. Seeley to add the Designer and OPM Selection Subcommittee to the list.</li> <li>b. J. Craigie indicated a Construction Subcommittee was established and should be listed.<br/> <i>J. Seeley to review the early SSBC minutes and add to the list.</i></li> <li>c. D. Bois indicated the Construction Subcommittee is to replace the Construction Phasing Working Group in the upcoming meetings on construction phasing and logistics.</li> <li>d. J. Thomson asked what is the role of the Educational Mission Subcommittee going forward?<br/> <i>J. Macero indicated there have been three meetings with teachers and staff so far: Health and PE, Administration/Central Administration, and Music to review the space details. B. Trivas indicated the design refinements reviewed with the teachers and staff have been presented to the SSBC beforehand and all documents, including teacher surveys, plans, and presentations are saved on the website <a href="https://www.envisionshs.com">https://www.envisionshs.com</a> (password:Spartan).</i></li> </ol> </li> </ol> |
| 37.13  | Record    | <b>Committee Questions</b> - none   |
| 37.14  | Record    | <b>Old or New Business</b> - none   |
| 37.15  | Record    | <b>Public Comment</b> – none  |
| 37.16  | Record    | Next <b>SSBC Meeting: January 10, 2022 at 7:00 pm.</b>  |

| Item # | Action | Discussion   |
|--------|--------|--|
| 37.17  | Record | A Motion was made by J. Craigie and seconded by D. Pignone to adjourn the meeting. No discussion, motion passed unanimous. |

Attachments: Agenda, Site Design Update, Health and Physical Education Programming Notes, Market Outlook: October 2021, 12/6/21 Green Building Initiatives Meeting Minutes, 12/6/21 PR Subcommittee Meeting Minutes, Powerpoint

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

## PROJECT MEETING SIGN-IN SHEET

Project: Stoneham High School Feasibility Study Project No.: 20033.00  
 Prepared by: Joel Seeley Meeting Date: 12/20/2021  
 Re: School Building Committee Meeting Time: 7:00pm  
 Location: Central Middle School Library and Remote Locations Meeting No: 37  
 Distribution: Attendees, (MF)

| SIGNATURE | ATTENDEES          | EMAIL  | AFFILIATION  |
|-----------|--------------------|--|--|
|           | Marie Christie     | <a href="mailto:mariechristie@comcast.net">mariechristie@comcast.net</a>                   | Co-Chair, Past Member of the School Committee/Middle School Building Committee                               |
|           | David Bois         | <a href="mailto:bois@arrowstreet.com">bois@arrowstreet.com</a>                             | Co-Chair, Community Member with Architecture Experience  |
| REMOTE    | Nicole Nial        | <a href="mailto:nicole.nial@stonehamschools.org">nicole.nial@stonehamschools.org</a>       | School Committee Member  |
| REMOTE    | Raymie Parker      | <a href="mailto:rparker@stoneham-ma.gov">rparker@stoneham-ma.gov</a>                       | Select Board Member  |
|           | Douglas Gove       | <a href="mailto:goved11@gmail.com">goved11@gmail.com</a>                                   | Community Member with Engineer Experience  |
|           | Stephen O'Neill    | <a href="mailto:soneill@hayner-swanson.com">soneill@hayner-swanson.com</a>                 | Community Member with Engineer Experience  |
|           | Josephine Thomson  | <a href="mailto:jthomson315@yahoo.com">jthomson315@yahoo.com</a>                           | Community Member, Middle School Faculty  |
| REMOTE    | Jeanne Craigie     | <a href="mailto:jcraigie@stoneham-ma.gov">jcraigie@stoneham-ma.gov</a>                     | Town Moderator   |
|           | Lisa Gallagher     | <a href="mailto:lgallagher@stonehamschools.org">lgallagher@stonehamschools.org</a>         | Community Member, School Secretary, Past member of Middle School Building Committee                          |
|           | Sharon Iovanni     | <a href="mailto:sharon.iovanni@stonehambank.com">sharon.iovanni@stonehambank.com</a>       | Community Member   |
| REMOTE    | Cory Mashburn      | <a href="mailto:cory.mashburn910@gmail.com">cory.mashburn910@gmail.com</a>                 | Community Member, Finance and Advisory Board   |
|           | Paul Ryder         | <a href="mailto:pryder@Cambridgema.gov">pryder@Cambridgema.gov</a>                         | Community Member with Construction Experience  |
|           | David Pignone      | <a href="mailto:dpignone@stonehamschools.org">dpignone@stonehamschools.org</a>             | Select Board Member, Athletic Director, Member knowledgeable in educational mission and function of facility |
|           | Kevin Yianacopolus | <a href="mailto:kyianacopolus@stonehamschools.org">kyianacopolus@stonehamschools.org</a>   | Local Official responsible for Building Maintenance  |
|           | Dennis Sheehan     | <a href="mailto:dsheehan@stoneham-ma.gov">dsheehan@stoneham-ma.gov</a>                     | Town Administrator / MCPPO Certified   |
| REMOTE    | John Macero        | <a href="mailto:jmacero@stonehamschools.org">jmacero@stonehamschools.org</a>               | Superintendent of Schools, Secretary of School Building Committee  |
| REMOTE    | Bryan Lombardi     | <a href="mailto:blombardi@stonehamschools.org">blombardi@stonehamschools.org</a>           | Stoneham High School Principal   |
|           | Brian McNeil       | <a href="mailto:bmcmneil@stonehamschools.org">bmcmneil@stonehamschools.org</a>             | Facilities Director  |
|           | April Lanni        | <a href="mailto:alanni@stoneham-ma.gov">alanni@stoneham-ma.gov</a>                         | Town Procurement Officer / MCPPO Certified   |
| REMOTE    | Brooke Trivas      | <a href="mailto:brooke.trivas@perkinswill.com">brooke.trivas@perkinswill.com</a>           | Perkins and Will   |
| REMOTE    | Patrick Cunningham | <a href="mailto:patrick.cunningham@perkinswill.com">patrick.cunningham@perkinswill.com</a> | Perkins and Will   |
|           | Todd McCabe        | <a href="mailto:tmccabe@consigli.com">tmccabe@consigli.com</a>                             | Consigli   |
|           | Kristy Lyons       | <a href="mailto:klyons@consigli.com">klyons@consigli.com</a>                               | Consigli   |
|           | Robert Smith       | <a href="mailto:rsmith@smma.com">rsmith@smma.com</a>                                       | SMMA   |
|           | Joel Seeley        | <a href="mailto:jseeley@smma.com">jseeley@smma.com</a>                                     | SMMA   |

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REMOTE

DAVID WARNER

## Agenda

|               |  |               |            |
|---------------|--|---------------|------------|
| Project:      | New Stoneham High School                             | Project No.:  | 20033      |
| Re:           | School Building Committee Meeting                    | Meeting Date: | 12/20/2021 |
| Prepared by:  | Joel Seeley  | Meeting Time: | 7:00 PM    |
| Location:     | Central Middle School Library & Remote Participation | Meeting No.   | 37         |
| Distribution: | Attendees (MF)                                       |               |            |

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1. Call to Order
2. Approval of Minutes
3. Approval of Invoices and Commitments
4. Schedule and Budget Update
5. Design Update
6. Construction Market Outlook – Fall 2021 Update
7. Subcommittee Updates
8. New or Old Business
9. Committee Questions
10. Public Comments
11. Next Meeting: January 10, 2022
12. Adjourn

**Join Go-To-Meeting:** <https://global.gotomeeting.com/join/649347381>  
**Dial-in:** [+1 \(224\) 501-3412](tel:+12245013412) **Access Code:** [649-347-381](tel:649347381)

# **Stoneham High School**

## **Site Design**

**December 20, 2021**

# Site Drivers



## Place

The Fells landscape is an integral part of what makes the site unique as it envelops the property.

- Woods
- Stone Outcroppings
- Wetlands
- Vistas
- Unique flora



## People

The culture of the place is driven by the diverse user groups that use this destination as a central resource for events, work, learning, and celebration.

- Staff
- Students
- Community



## Performance

The site performs in multiple ways to meet the goals of operations as well as to stand the test of time.

Stewards of the Site

-Environment, Maintenance, Cost

Access for Everyone

-Accommodating different user groups.

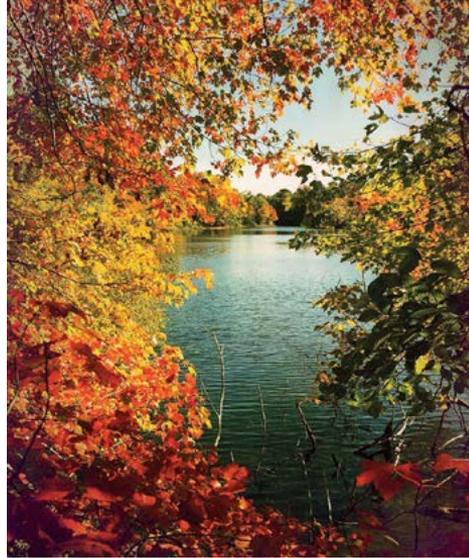
Program Alignment

-Efficiencies in layout

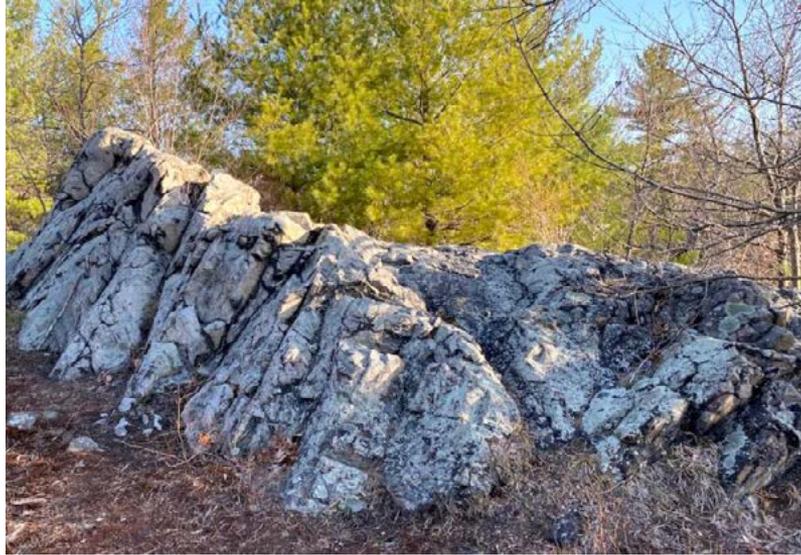
# Inspiration - Diverse Canopy



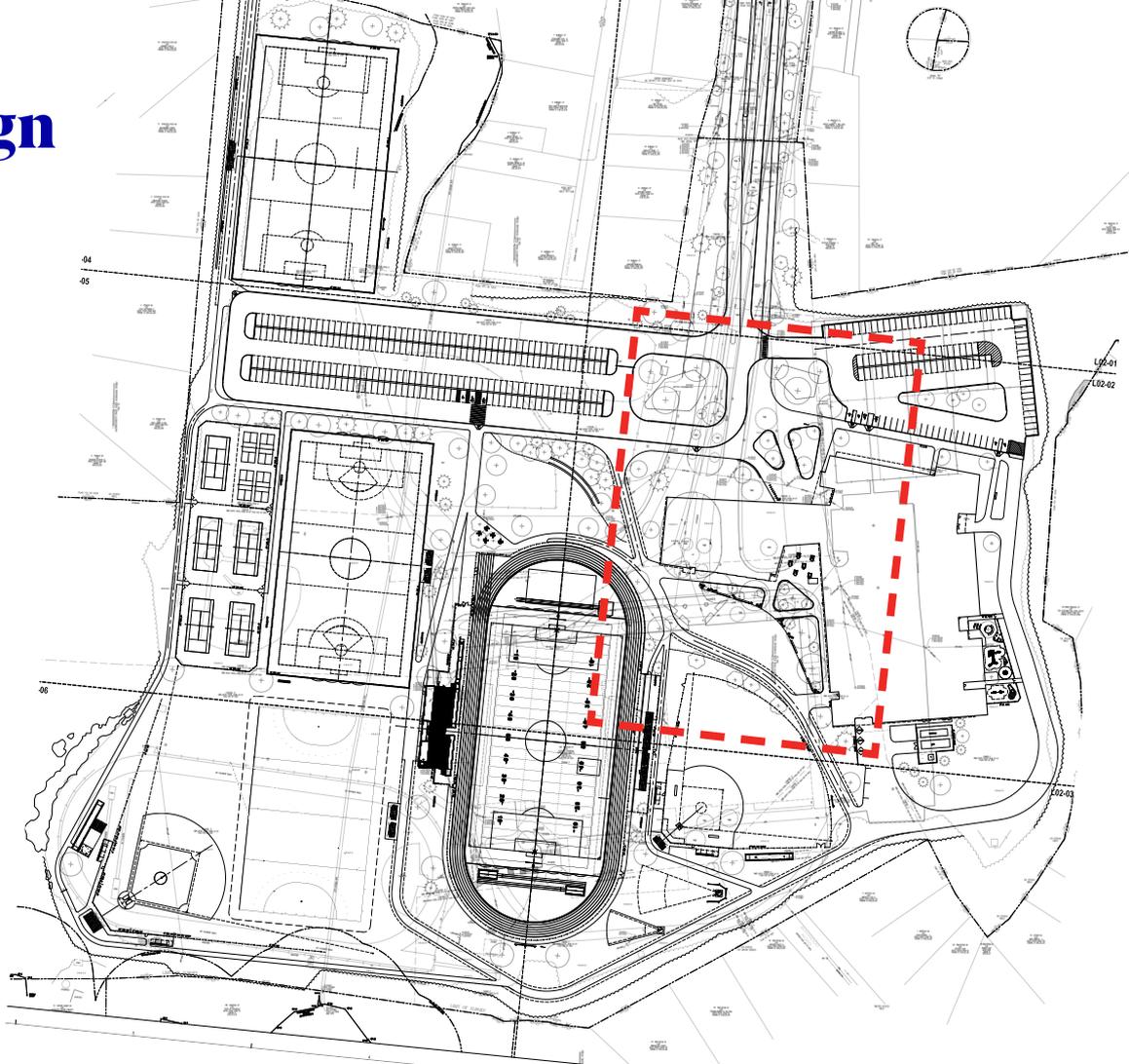
# Inspiration - Framed Views



# Inspiration - Rich Character / Textures



# Schematic Design



# Site Plan



# Precedent Imagery



Planted Islands with Seating



Outdoor Dining and Collaboration Areas



Key Views to and from the Building

# Site Plan



# Site Program

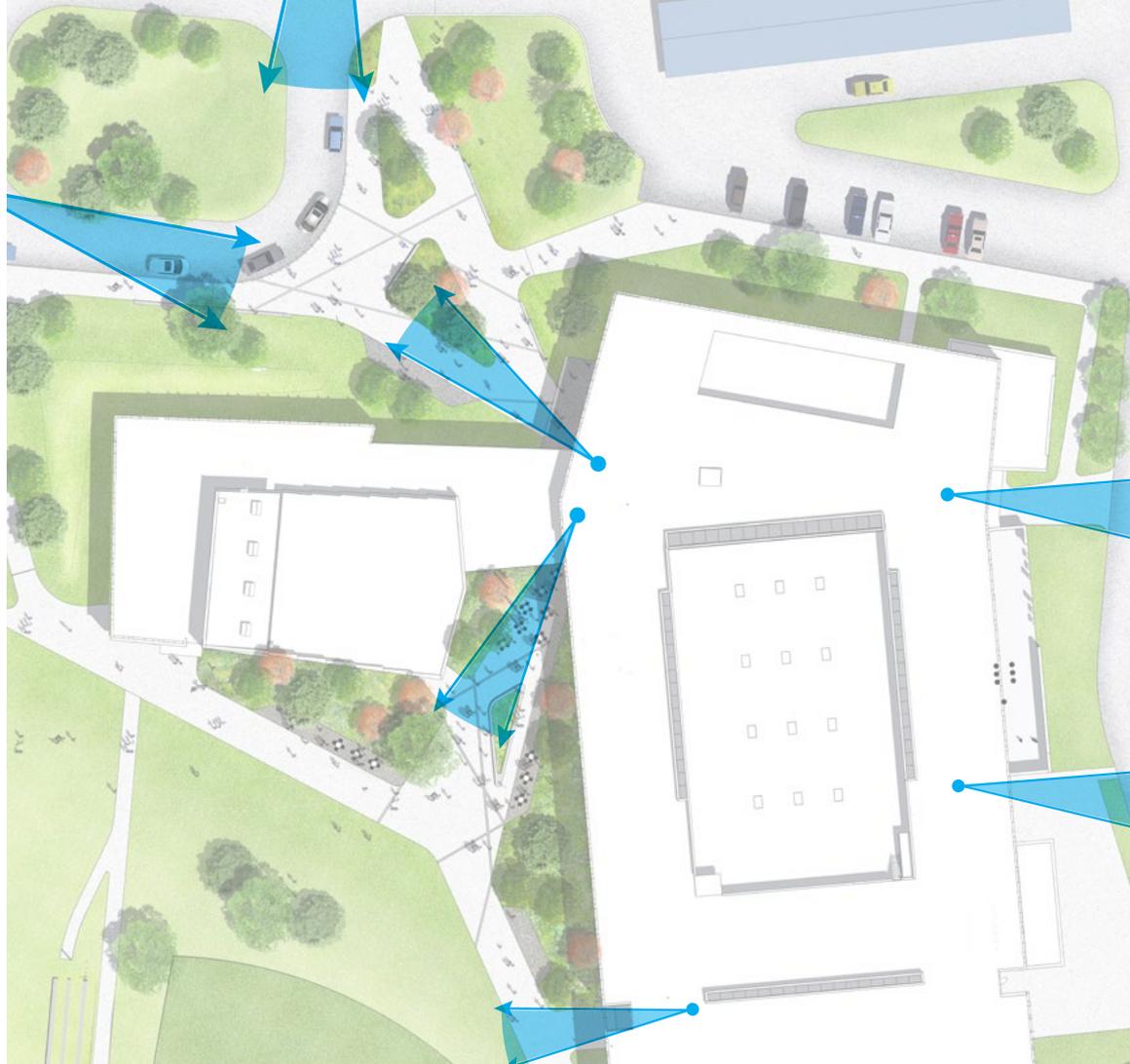
The program is designed to be inviting, flexible, and inclusive with a focus on function.

- 1. ENTRY / DROP- OFF PLAZA
- 2. BICYCLE STORAGE
- 3. DINING TERRACE
- 4. EVENT PLAZA
- 5. COLLABORATION PODS
- 6. ACTIVE LAWN / 'QUAD'



# Key Views

Safety is paramount for the success of the campus. The design thoughtfully frames views to welcome all visitors to Stoneham High School and to ensure the students and staff are safe and secure.





STONEHAM HIGH SCHOOL



# Materials

The Materials Palette for Stoneham Highschool is to be simple, functional, and knitted to the Fells Landscape.



Boulders / Stone Outcroppings



Decomposed Granite / Stone Dust



Concrete



Precast Concrete

# Planting

The Planting Palette for Stoneham Highschool is to be native / native adaptive, low maintenance, and knitted to the Fells Landscape.



White Oak



Bearberry



Red Maple



American Beech



White Pine

Planting to consist of over 20 tree species to create long lasting vision. Shrub planting to be more limited for ease of care.



# Stoneham High School

## Department Programming

**PROGRAMMING MEETING  
DECEMBER 14, 2021 VIA GOOGLE MEETS**

**IN ATTENDANCE:  
- DAVID PIGNONE  
- JOHN MACERO  
- BRYAN LOMBARDI  
- JOEL SEELEY  
- DAVID WARNER  
- BROOKE TRIVAS  
- STEPHEN MESSINGER  
- MIRELLE BOTROS**

## Health and Physical Education

- Gymnasium with Gymnastics
- Gymnastics Storage
- PE Alternatives - Fitness, Conditioning, Strength
- Athletics Storeroom (indoor track, high jump, BB Scoring, chairs)
- PE Locker Rooms
- PE Storage
- Athletic Director's Office, Secretary, Conference Area
- Team Room
- PE Office Male and Female (2 staff each)
- Male Athletic Coaches (1 office / 8 coaches) shower + toilet
- Female Athletic Coaches (2 offices / 3 coaches) shower + toilet
- Training Room w/ storage
- Equipment Room: laundry, sports equipment storage

December 14, 2021 - REVISION 03  
May 24, 2021 - REVISION 02  
April 30, 2021 - REVISION 01  
March 30, 2021



December 14, 2021 - REVISION 03  
May 24, 2021 - REVISION 02  
April 30, 2021 - REVISION 01  
March 30, 2021

**ACTION ITEMS:**

**STONEHAM HIGH SCHOOL:**

- MARK UP STRIPING PATTERNS AND RETURN TO PW.
- CONFIRM TYPE OF LOCKERS AT LOCKERS.

**PERKINS&WILL:**

- SEND TWO FULL SIZE STRIPING PLANS TO SHS.
- REVIEW RELOCATING AD OFFICE AT CORNER FOR BETTER SUPERVISION AND SITE LINES.
- PROVIDE RECOMMENDATION ON RESILIENT RUBBER FLOORING AT BASKETBALL COURTS 1 & 3 AND HARDWOOD FLOORING FOR ONLY MAIN COURT.
- REVIEW CONVENTIONS AND STANDARDS WITH SPORTS PRACTICE REGARDING SCORERS TABLE PROXIMITY TO COURT LINES RELATIVE TO SAFETY.
- LOCATE SCOREBOARDS IN ELEVATION FOR REVIEW.
- REVIEW STRUCTURAL REQUIREMENTS FOR FUTURE ROCK WALL.
- LAY OUT UNEVEN BARS WITH PROPER CLEARANCES AT GYMNASTICS.
- REVIEW CHEER MATS STORAGE LOCATION.
- REVIEW WITH CODE CONSULTANT IF TEAM ROOMS CAN BE CLOSED OFF AT LOCKERS.
- REVIEW SHS REQUEST FOR AN EXTERIOR DOOR AT EQUIPMENT ROOM.
- REVISE LAYOUTS AT CONCESSIONS.
- REVIEW WITH SHS ACCESS LEVEL 00 TO FIELDS.

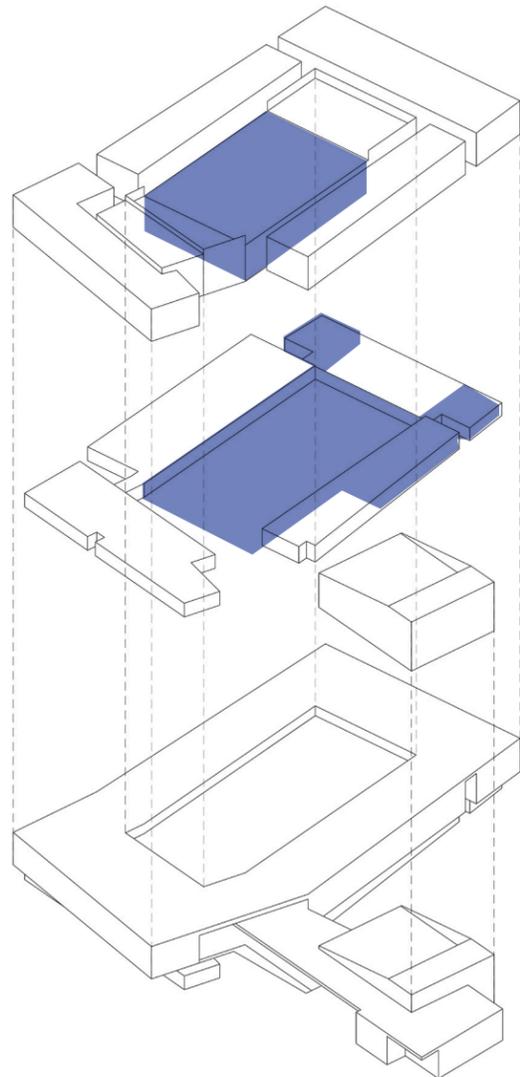
**WARNER LARSON:**

- PREPARE A PLAN MARKUP SHOWING ALL FENCING, NETTING AND GATE LOCATIONS AND HEIGHTS.

**Space Summary**

HS Building

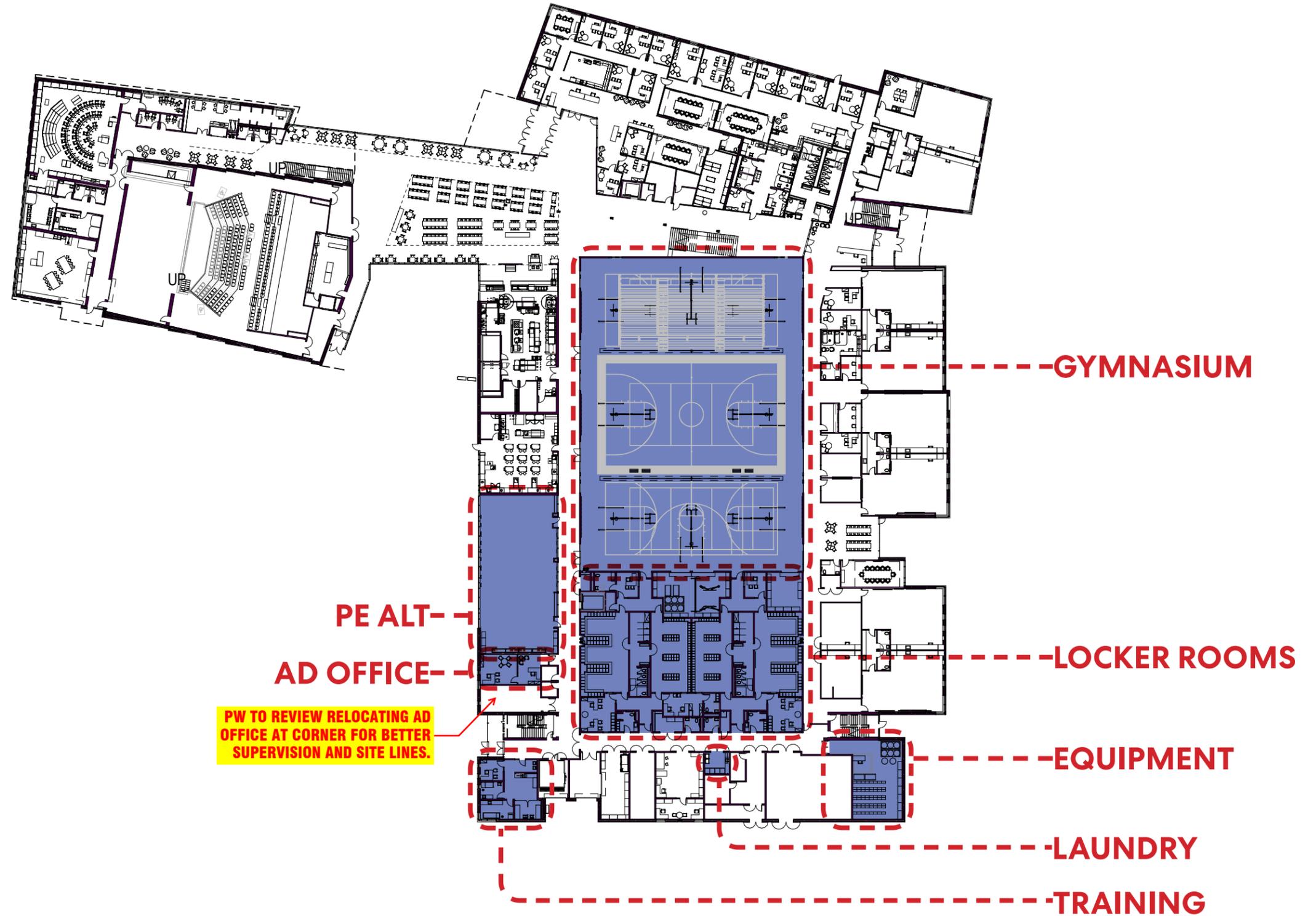
Health & PE



| ROOM TYPE   | ROOM NFA      | # OF RMS | AREA TOTALS   |
|---|---------------|----------|---------------|
| <b>Gymnasium with Gymnastics</b>                              | <b>16,000</b> | <b>1</b> | <b>16,000</b> |
| <b>Gymnastics Storage</b>                                     | <b>300</b>    | <b>1</b> | <b>300</b>    |
| <b>PE Alternatives</b>  | <b>3,000</b>  | <b>1</b> | <b>3,000</b>  |
| <b>Athletics Storeroom</b>                                    | <b>500</b>    | <b>1</b> | <b>500</b>    |
| <b>PE Locker Rooms</b>  | <b>1,100</b>  | <b>2</b> | <b>2,200</b>  |
| <b>PE Storage</b>   | <b>400</b>    | <b>1</b> | <b>400</b>    |
| <b>Athletic Director's Office, Secretary, Conference Area</b> | <b>400</b>    | <b>1</b> | <b>400</b>    |
| <b>Team Room - Male</b>                                       | <b>1,150</b>  | <b>1</b> | <b>1,150</b>  |
| <b>Team Room - Female</b>                                     | <b>1,150</b>  | <b>1</b> | <b>1,150</b>  |
| <b>PE Office</b>  | <b>250</b>    | <b>2</b> | <b>500</b>    |
| <b>Athletic Coaches - Male</b>                                | <b>300</b>    | <b>1</b> | <b>300</b>    |
| <b>Athletic Coaches - Female</b>                              | <b>300</b>    | <b>1</b> | <b>300</b>    |
| <b>Training Room w/ Storage</b>                               | <b>700</b>    | <b>1</b> | <b>700</b>    |
| <b>Equipment Room: Laundry, Sports Equipment Storage</b>      | <b>1,200</b>  | <b>1</b> | <b>1,200</b>  |

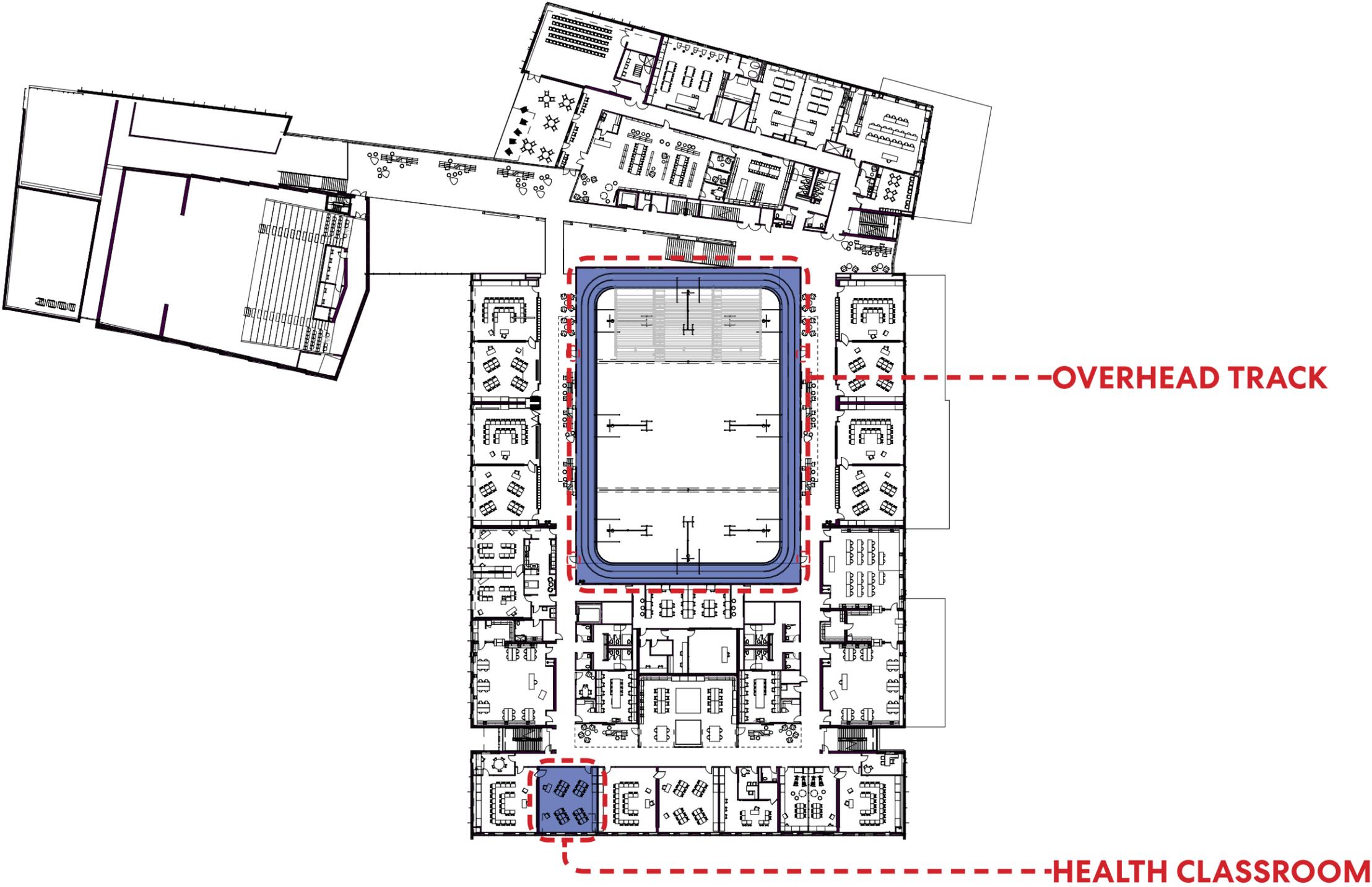
Overall Plan

FIRST FLOOR PLAN



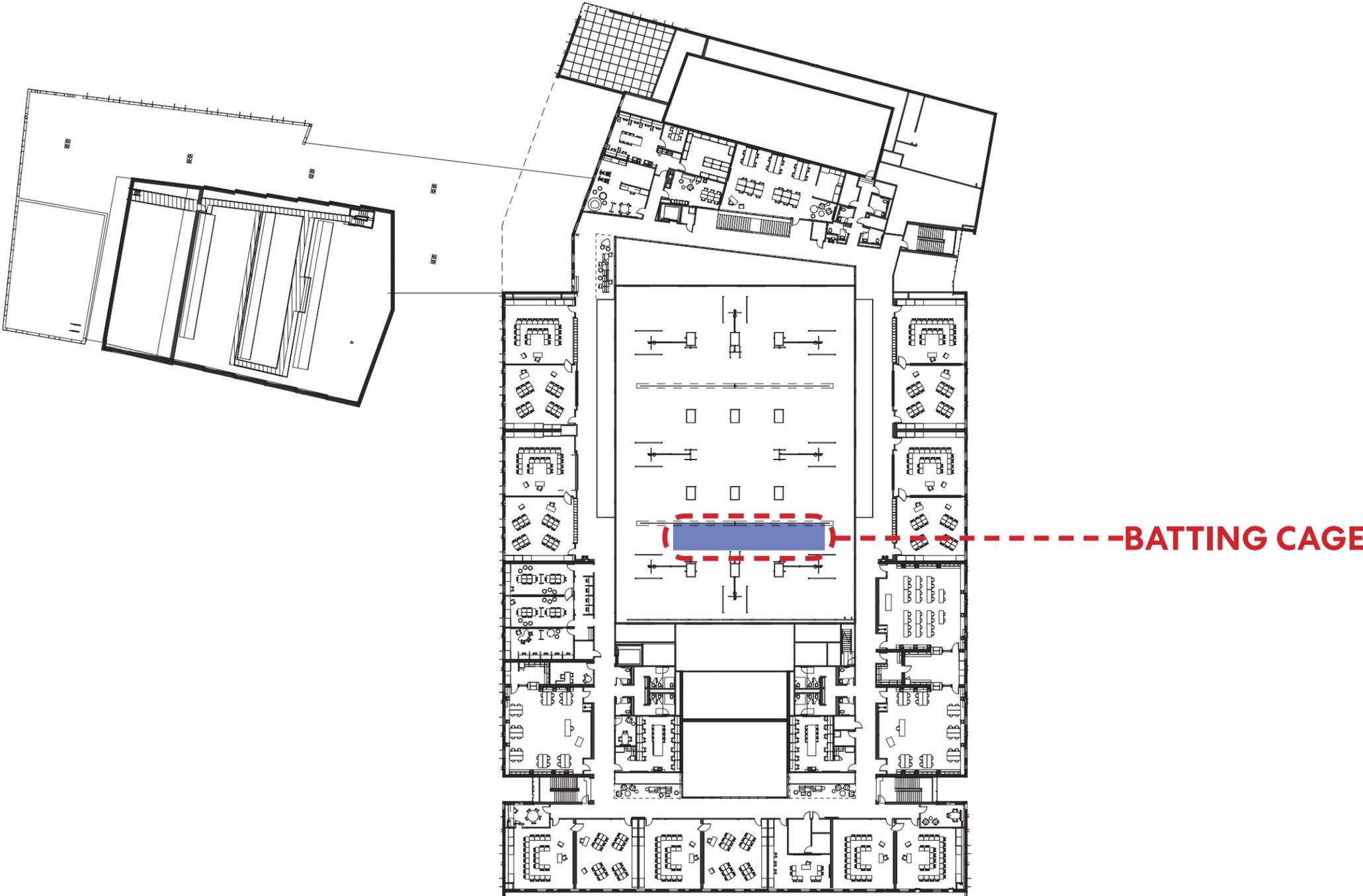
Overall Plan

SECOND FLOOR PLAN



Overall Plan

THIRD FLOOR PLAN



Programming Plan Layouts

Gymnasium Survey

• 20-30 [students] but can go to 36 with possibilities of 3 classes at same time

• All sorts of sports and games moments when we show video as part of instruction

Health Physical Education

**Stoneham High School**  
 Department PE ALTERNATIVES  
 Project Number 153010.00  
 Date  
 Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

**Perkins&Will**  
 SD DD CD

**Program Survey**

| No. | Item   | Comments   |
|-----|--|--|
| 1   | What is your typical gym class size? Let us know if you have a variety of class sizes?   | 20-30 but can go to 36 with possibility of 3 classes at same time with 3 different teachers so gym could have at total of 90-100 in gym for same block not to mention course athletic teams, which would include many large teams but indoor track being the largest of possibly 70 male and 70 female at same time 140 track athletes   |
| 02  | Do you have a teacher's aid? If yes, how many?   | no   |
| 03  | Please describe the programs/ activities for the space.  | all sorts of sports and games moments when we show video as part of instruction.   |
| 04  | What are your storage needs? Please describe what you need to store in your space? Be specific.  | storage for all PE equipment...table tennis tables, nets, balls, raquets, etc  |
| 05  | Do you need a desk top copier? Full size?  | no   |
| 06  | What type of physical filing requirements do you have beyond two/ 3 drawer files? Fire-rated? What is the use of these files?  | nothing  |
| 07  | Do you need a surface to pin-up visuals, work, for teaching and learning? Quantity?  | yes, couple throughout gym for teachers to hang relevant posters   |
| 08  | Do you need a marker board in any of your spaces?  | yes  |
| 09  | What are your furniture needs in the spaces for surfaces? Desks, Tables, Work tables, Group work, Individual work?   | nothing Bleachers need to be discussed   |
| 10  | Do you have any specific seating requirements in any of the spaces?  | bleachers what wall can we put them on? can we have multiple walls with rollout bleachers? what will the spectator max seating be?   |
| 11  | Do you meet with parents, students, faculty in your space? If so how many?   | yes, very often can be whole school at times Pep rally, graduation, pre season athletic meetings, Parent meetings  |
| 12  | In your spaces what are your desk needs? Tables, individual desks, desk top material, on wheels/movable?   | no desks in gym  |
| 13  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor?  | sound system, smart boards, projector, score boards possibly 2, shot clocks, volley/ball standards hole in the floor for multiple courts, camera system for live streaming should possibly speak with cable tv in town to see if something can be installed now to televise games and or send out on internet live stream like youtube etc... we have learned a lot this pandemic about not having specatotr and livestreaming games has been a huge |
| 14  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor? Power Requirements? Water? Ventilation? (ATTACH A LIST)  | will need internet access both plug in and wifi multiple plug ins for many things again livestreaming etc...   |
| 15  | We are trying to reduce plug loads in the building which means not having a dedicated refrigerator, freezer, microwave, cook top etc...in your space. Let us know what is necessary for teaching + learning and the space use. Let us know what you think is necessary here. | nothing  |
| 16  | What room/classroom would you benefit from having a critical adjacencies ?   | a classroom almost lab would help when doing some units in PE. Something taht has been over looked but a PE lab brings us into the future for PE almost a break out room for Phys ed can use for class instructions, small yougo class, stratching, watching videos in a much better settign than the gym itself   |
| 17  | How and or why do you use computers in your room? Laptop or desktop?   | will bring out laptops and chromebooks into gym  |
| 18  | Attach any aspirational images you have for your space you would like to share.  | nice open and bright gym, sound system for music and announcements.  |
| 19  | Provide additional comments here.  | Need to know what wall will be glass and what walls will be solid, so we can then figure out where the bleachers are. Which will then determine where  |

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Health Physical Education

|   |   |
|---|---|
|   |   |
| <p>ave all learned a great deal over the last year teaching/ working in person and dily during the pandemic. What have you learned about physical space, technologies, h +wellness, and teaching methods that you think would be great to discuss as lessons ed for inclusion in the new Stoneham High School planning? Please describe as many se lessons for the design team.</p> | <p>Out in gym LOoby if there is such a thing in the new building we need to think about where we do put our trophy cases. We have a Hall of fame that has a plaque displaying all of our inductees. Where does that go. Are there other options that will be discussed? Would love a large monitor to display all of the athlelitc information connected to internet so can update Info such as schedules and upcoming events etc... also wehre in the gym do we hang our championship banners? with suspended track and glass walls we are limited also for gym and for atleast the stadium I seen this email "about hudl focus outdoor camera that is set up for all the video taping of games you can imagine. I would love to set us up for future ability to video games live stream games , graduation and any other event by making sure cameras , audio and what ever else technology is in place to make this capable and easy</p> |

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# Programming Plan Layouts

## Gymnasium Follow-up Questions

• Basektball and gymanstics are in the same season which means the main court needs to be availalbe every day.

• I envision our team benches and game table to be set up on the opposite side of the bleachers.

Health Physical Education

Stoneham High School  
 Department: EQUIPMENT ROOM (laundry, storage)  
 Project Number: IS2010.00  
 Date:  
 Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

Perkins&Will

SD DD CD

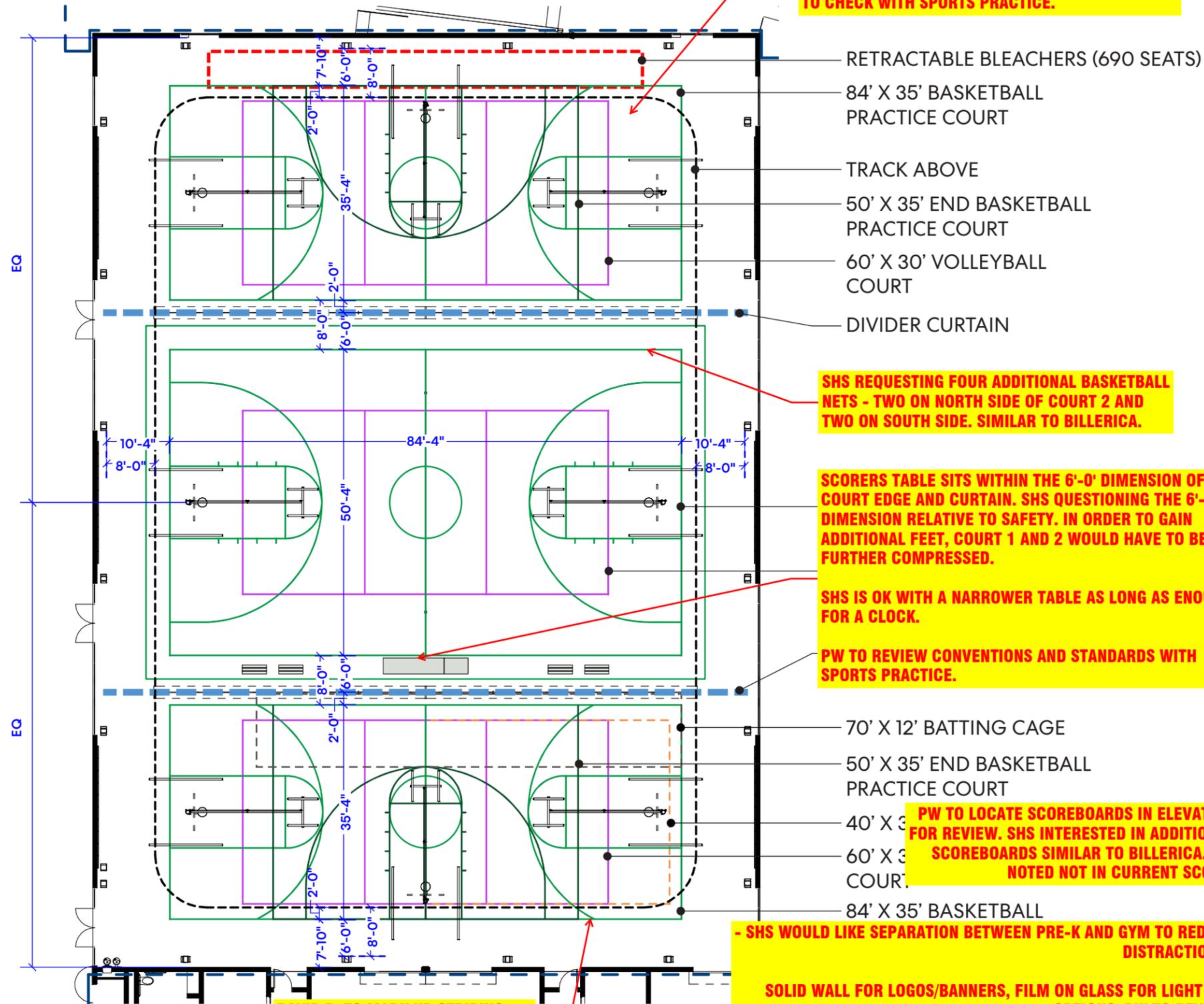
Program Survey

| No. | Item   |
|-----|--|
| 1   | <p>GYM</p> <p>Can we confirm if this gym layout will work for your PE educational needs? In this layout, the main court is in the middle while smaller size practice courts to sides. All three courts can be divided by divider curtains. The gymnastics mat is located on the competition court and will be removed when the court is needed, would you please provide your comments and concerns regarding this layout.</p> |

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Programming Plan Layouts

Gymnasium Layout



**PW TO PROVIDE RECOMMENDATION ON RES RUBBER FLOOR AT COURTS 1 & 3 AND HARDWOOD FLOOR FOR ONLY MAIN COURT.  
NOTE: DIFFERENT CONSTRUCTION, DIFFERENT SLAB CONSTRUCTION DEPTH (MEDFORD HIGH IS AN EXAMPLE). PW NEED TO CONSIDER TRANSITION. PW TO CHECK WITH SPORTS PRACTICE.**

**SHS REQUESTING FOUR ADDITIONAL BASKETBALL NETS - TWO ON NORTH SIDE OF COURT 2 AND TWO ON SOUTH SIDE. SIMILAR TO BILLERICA.**

**SCORERS TABLE SITS WITHIN THE 6'-0" DIMENSION OF THE COURT EDGE AND CURTAIN. SHS QUESTIONING THE 6'-0" DIMENSION RELATIVE TO SAFETY. IN ORDER TO GAIN ADDITIONAL FEET, COURT 1 AND 2 WOULD HAVE TO BE FURTHER COMPRESSED.**

**SHS IS OK WITH A NARROWER TABLE AS LONG AS ENOUGH FOR A CLOCK.  
PW TO REVIEW CONVENTIONS AND STANDARDS WITH SPORTS PRACTICE.**

**PW TO LOCATE SCOREBOARDS IN ELEVATION FOR REVIEW. SHS INTERESTED IN ADDITIONAL SCOREBOARDS SIMILAR TO BILLERICA. PW NOTED NOT IN CURRENT SCOPE.**

**- SHS WOULD LIKE SEPARATION BETWEEN PRE-K AND GYM TO REDUCE DISTRACTIONS.  
SOLID WALL FOR LOGOS/BANNERS, FILM ON GLASS FOR LIGHT ARE OPTIONS. PW TO REVIEW.  
PW TO REVIEW STRUCTURAL REQUIREMENTS FOR FUTURE ROCK WALL.**

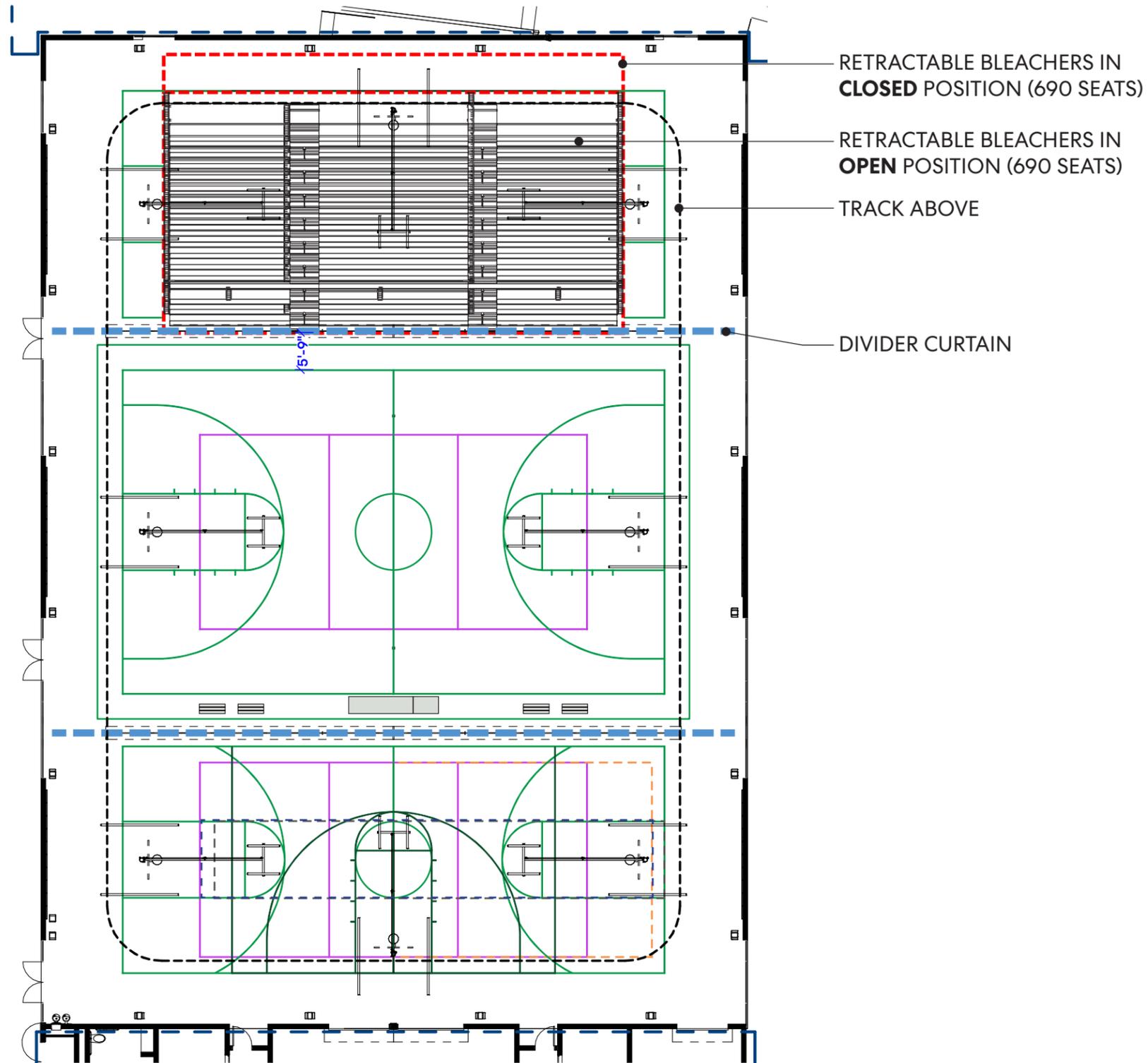
**DAVID P. TO MARK UP STRIPING PATTERNS. PW TO SEND TWO FULL SIZE PLANS.**

**Gymnasium Layout Client Feedback:**

- All three courts should have basketball lines, volleyball lines, as well as the inserts in the floor for the volleyball poles.
- The gymnastics floor can NOT go on the main court. All gymnastics equipment must go on the side court closest to the locker rooms for many reasons.
- Ensure when the divider curtain at the main basketball court comes down between the side court and the main court that there is still enough room for team benches and a game table, without impeding the safety of the game.
- Would like to work on getting better access to the suspended track, something better than having to go outside the gym and then up the stairs. Is there any way to provide a staircase inside the gym?
- Suggests to have 6 basketball hoops that would go on each end of all 3 courts.
- Needs one master switch that can raise and lower ALL baskets at one time (possible choosing which ones to leave alone).
- Would like to have two things be stored and hung from the ceiling: a baseball/softball batting cage as well as the cheer/gymnastics mats.
- Would like to have a good discussion about what walls we have and how we use them for either hanging banners or school logo's or statements such as "Spartan Strong."
- Needs to discuss location for school hall of fame plaque and scoreboards. Would like a similar condition as Billerica.
- Strongly wants the wall that abuts the Pre-K to be solid so that there is zero interaction or visibility to them or to us from them. Suggests this wall to be used for logo or banners etc...

# Programming Plan Layouts

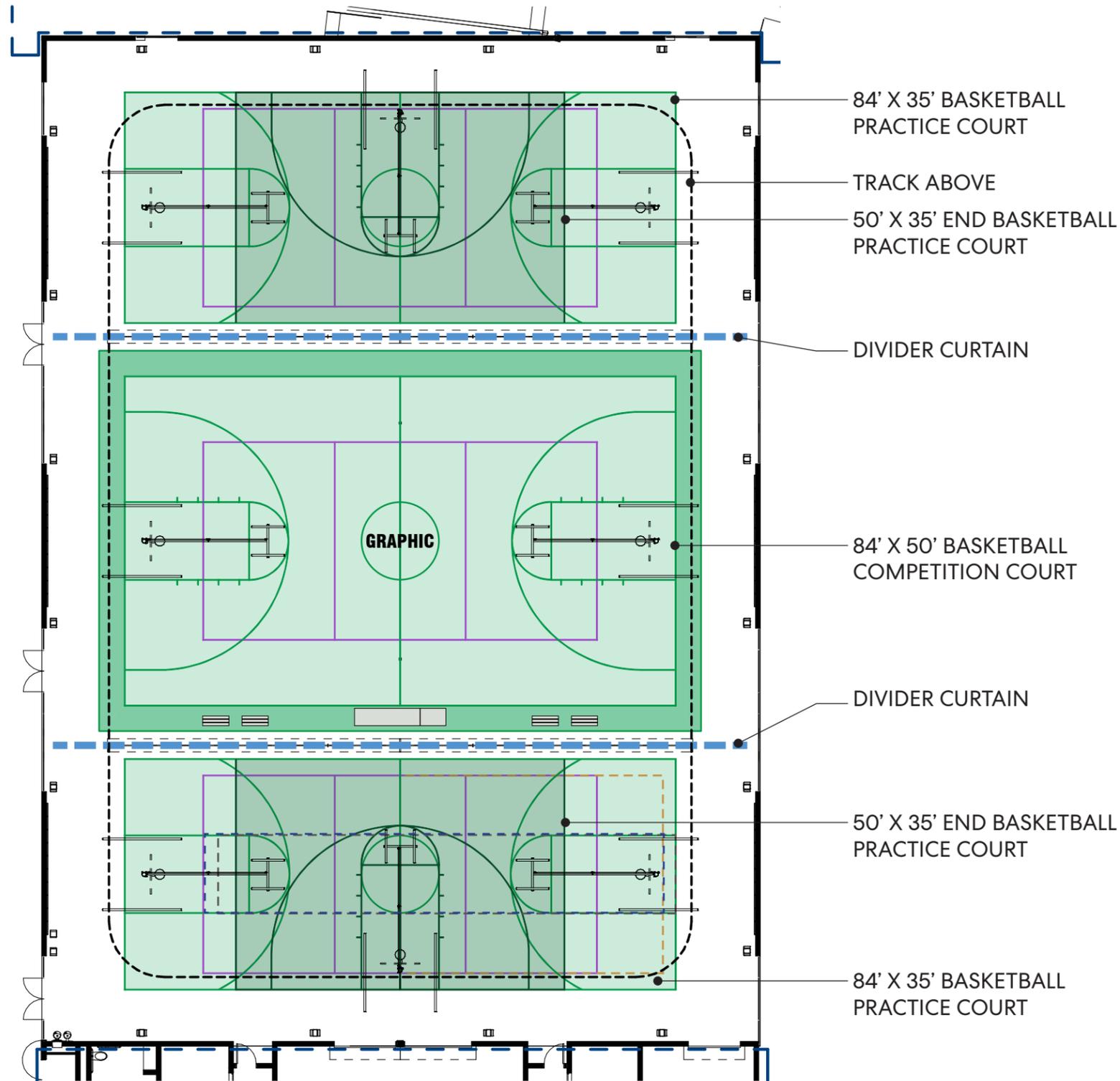
## Gymnasium Layout - Bleachers



RETRACTABLE BLEACHERS

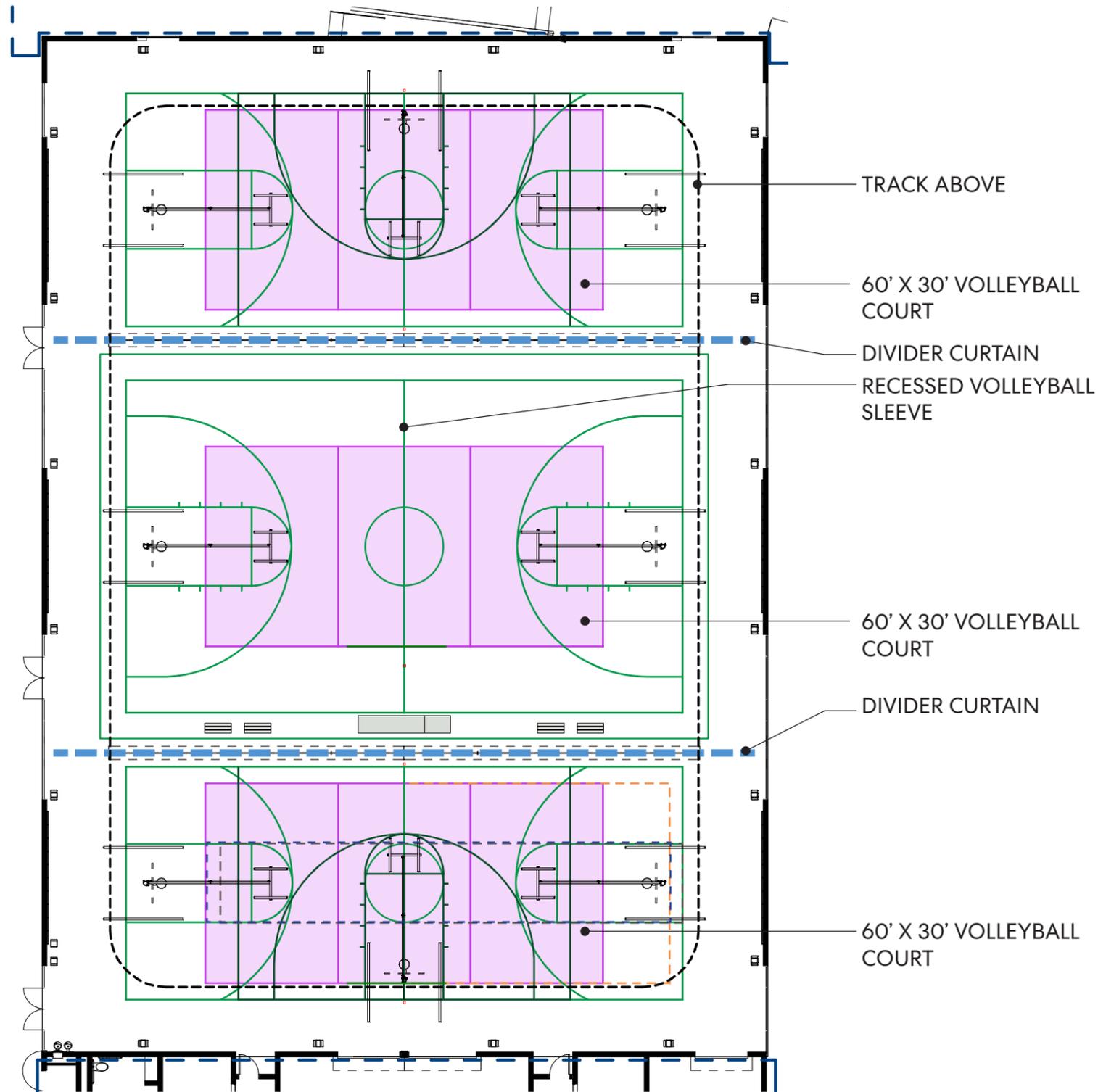
# Programming Plan Layouts

## Gymnasium Layout - Basketball Courts



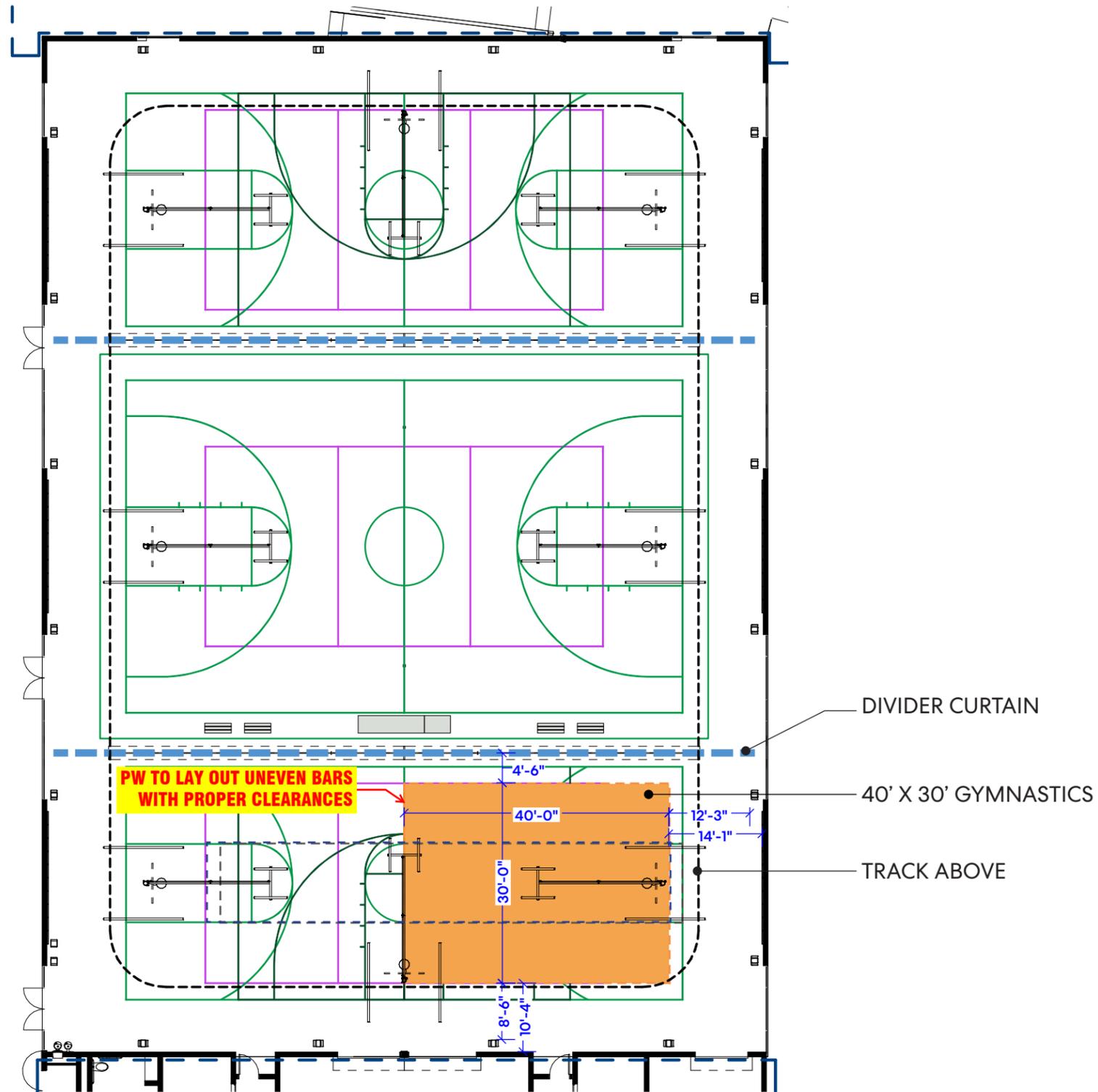
# Programming Plan Layouts

## Gymnasium Layout - Volleyball Courts



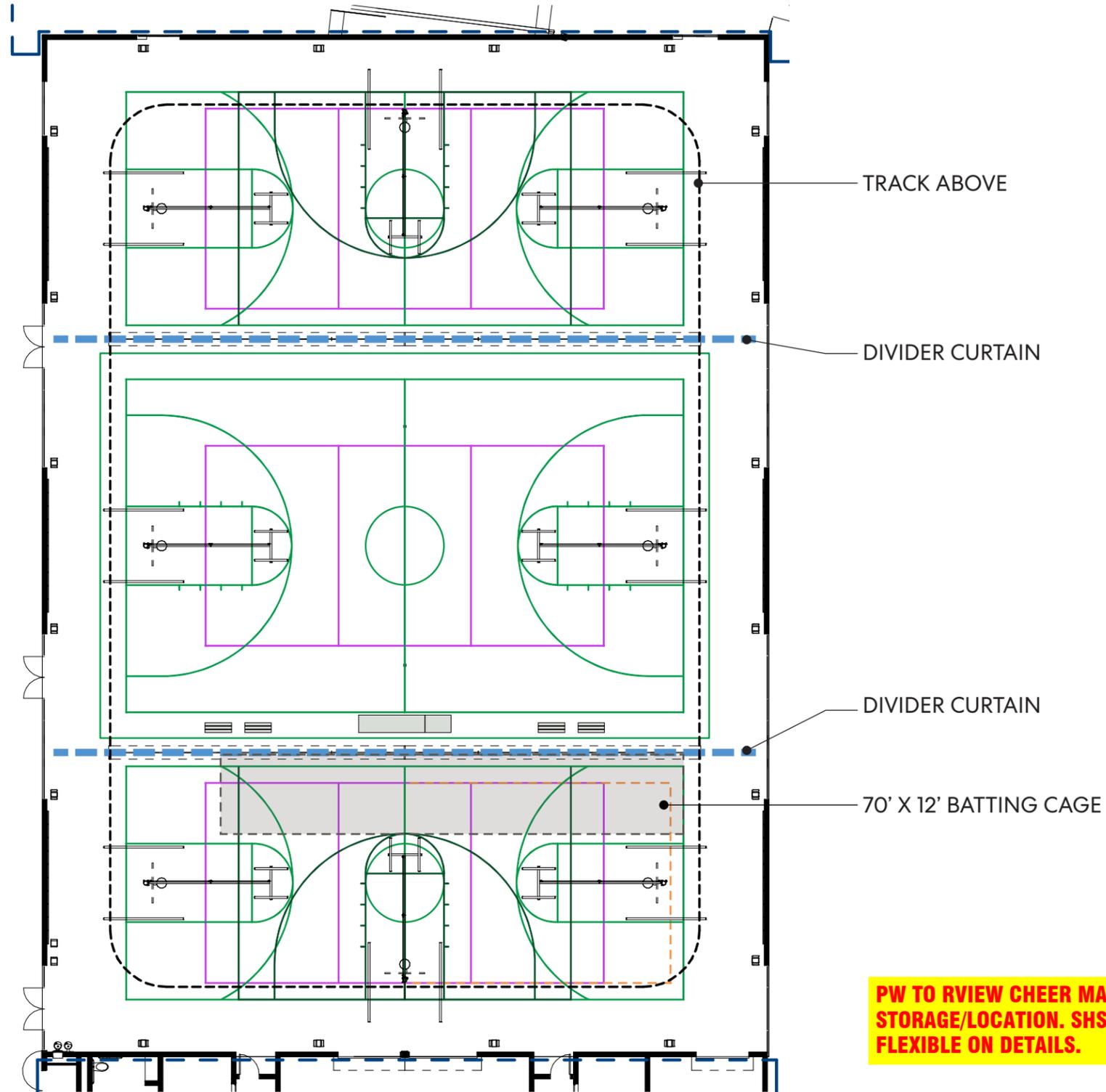
# Programming Plan Layouts

## Gymnasium Layout - Gymnastics



# Programming Plan Layouts

## Gymnasium Layout - Batting Cage



**PW TO REVIEW CHEER MATS STORAGE/LOCATION. SHS IS FLEXIBLE ON DETAILS.**



Programming Plan Layouts

Locker Room Survey

- PE: 20-30 per class with potential 3 classes at once
- Athletics: 60-70 lockers in each locker room for athletics

- Changing stalls for boys & girls to change and some privacy. Gender equity addressed for transgender students!!!

Health Physical Education

Stoneham High School

Department PE LOCKER ROOMS (1 Male/1 Female w/toilet)

Project Number 153010.00

Date

Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

Perkins&Will

Program Survey

| No. | Item   | Comments  |
|-----|--|---|
| 1   | What is your typical class size? Let us know if you have a variety of class sizes?   | 20-30 per class with potential 3 classes at once - avg of 45 male and 45 female during one class block would be safe for top number   |
| 02  | Do you have a teacher's aid? If yes, how many?   | no  |
| 03  | How many lockers do you need and what size?  | 450 total 225 in girls 225 in boys  |
| 04  | What are your storage needs? Please describe what you need to store in your space?   | The design has storage space for us, we need that storage space at minimum and could use more for all of our PE equipment but in terms of locker sizes we would like half size lockers (3 tiered high) We do not like the small boxes, and do not need large full size lockers looking for something in between |
| 05  | Do you require access to a full size copier? Desk top copier?  | no  |
| 06  | What do you think is the best flooring for this space?   | one that is cleaned easily and is durable   |
| 07  | Do you need a surface to pin-up visuals, work, for teaching and learning? Quantity?  | yes, 2-3 throughout locker room   |
| 08  | Do you need more than 2 (4' x 8') marker board surfaces for teaching + learning? How much more? Please discuss the use of the marker surfaces in your space?   | no do not need more than the 2 being offered  |
| 09  | Do you have any furniture needs in the space for surfaces? Desks, Tables, Work tables, Group work, Individual work?  | benches for changing and sitting  |
| 10  | Do you need any seats in the space?  | benches for changing and sitting  |
| 11  | Are there any special needs for the space you want to tell us about?   | changing stalls for boys & girls to change and some privacy. Gender equity addressed for transgender students!!! we would like to have a small space available of openness to have small group meeting if needed - small group being 15-20 kids looking at a white board  |
| 12  | Do want benches in front of the lockers or located adjacent to the lockers?  | front of lockers  |
| 13  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor?  | none  |
| 14  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor? Power Requirements? Water? Ventilation? (ATTACH A LIST)  | water fountains, bathrooms, ventilation, no showers necessary, but need toilets   |
| 15  | We are trying to reduce plug loads in the building which means not having a dedicated refrigerator, freezer, microwave, cook top etc....in your classrooms. Let us know what is necessary for teaching + learning and the space use. Let us know what you think is necessary here. | fridge in pe teacher office & teachers/coaches offices need a private bathroom and shower if shower is too much at minimum need a private toilet  |
| 16  | What room/classroom would you benefit from having a critical adjacencies ?   | Health class  |
| 17  | How and or why do you use computers in your room? Laptop or desktop?   | not in lockers  |

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Comments

in the fall season I have 4-5 female sports with approx. 170 athletes and males have approx. 4 sports with 160 athletes in the winter it drops a bit, but 3 teams each gender with approx. 120 athletes each. Spring jumps up again to 4 sports each gender and approx 170 athletes for each gender I need enough locker rooms and lockers divided up to cover the busiest season. I see, I will have counting the athletic building outside locker rooms, 3 locker rooms per gender, which means I need about 100 lockers in each locker room for athletics (using pe lockers for one of my smaller teams, I would need 50 lockers that Pe is not using). Very important to us is the ability to use as much of the exterior walls and leaving in the team locker rooms as much of an open space to have a team meeting with white board.

mentioned above in question number 1 avg 100 lockers in the 4 team locker rooms 2 inside and 2 in the outside athletic building, the locker room in the outside athletic building is where I plan to put football, so there will need to be some different design on the size of those locker to house the shoulder pads and helmet.

clothes, uniforms, cleates lax sticks, football helmets and shoulder pads, field hockey sticks, bats, tennis raquets etc... biggest concern is in 1 locker room needs to store the football helmet and shoulder pads

no

rubber or concrete, durable and easy to clean

YES

no dont need more than 2 (4x8) but do need the 2

Group benches for lockers or maybe lockers have benches built ins specifically for the one locker room that will house football outside, shelves above lockers to store large items

no

space so can address a team of an ag of 50-60 and still provide enough lockers at a good size not full length lockers

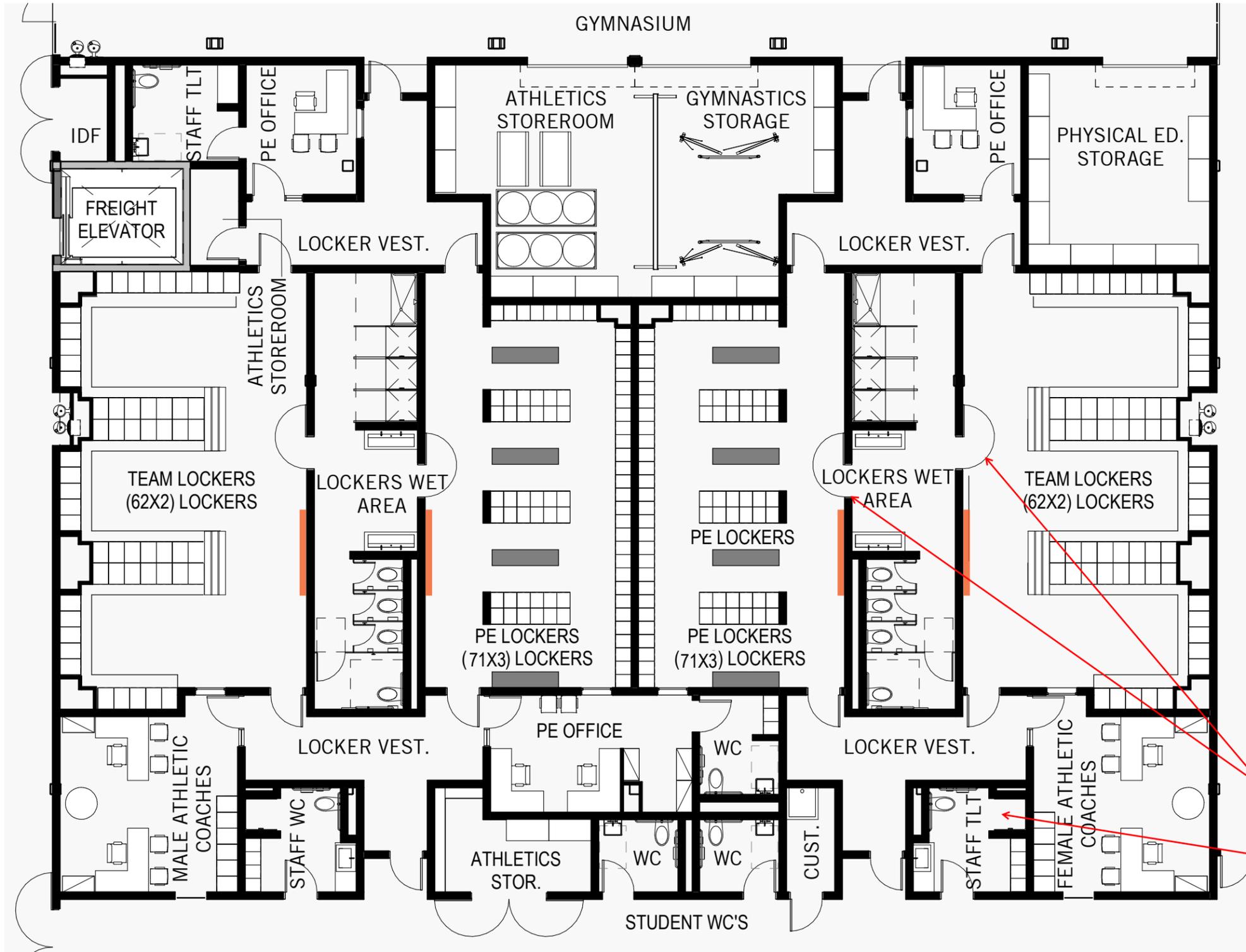
projector availability and able to project onto a wall or white board

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Programming Plan Layouts

Locker Room Layout



**Locker Room Layout Feedback:**

- 3rd row (tier) at PE Lockers to make the number of lockers closer to 200 (71X3 = 213).
- Team Lockers are perfect with the double locker at 62X2 = 124.
- Needs the ability to shut and lock a door from being able to go through the bathrooms and enter the other locker room. This is true from both Team Locker and PE Locker rooms for boys and girls.
- Benches on ends of rows to sit on.
- Large white board on a wall at each locker room.

**LOCKS - SHS TO CONFIRM TYPES OF LOCKS - COMBINATION? PERMANENT PAD LOCKS?**

**PW TO REVIEW WITH CODE CONSULTANT IF TEAM ROOMS CAN BE CLOSED OFF.**

**PW TO REPRESENT SHOWER IN PLAN DRAWING.**

Programming Plan Layouts

PE Alternatives Survey

- Create workouts and put teams through workouts, open to staff

- The number one priority for this space is strength and conditioning for sports teams. We can not lose that feel and capability.

Health Physical Education

**Stoneham High School**  
 Department PE ALTERNATIVES (Fitness, Conditioning)  
 Project Number 153010.00  
 Date  
 Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

**Perkins&Will**

**Program Survey**

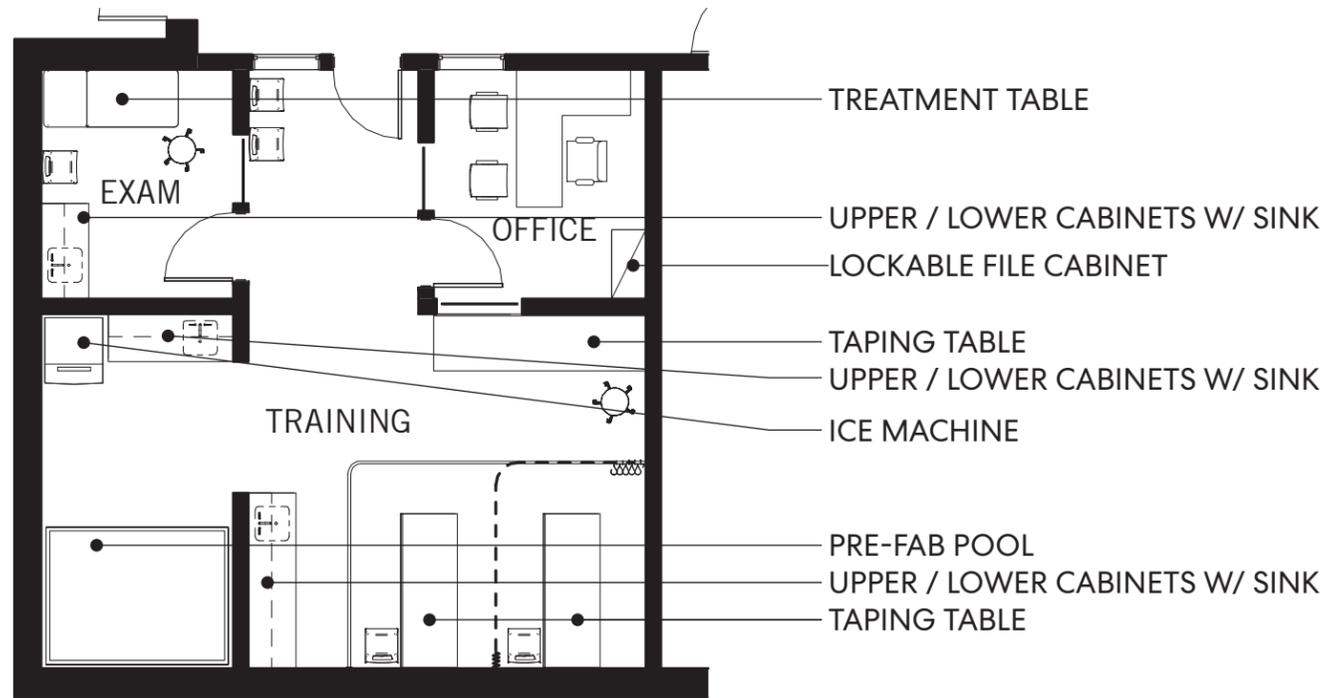
| No. | Item  | Comments  |
|-----|---|---|
| 1   | What is your typical class size? Let us know if you have a variety of class sizes?  | 30-40   |
| 02  | Do you have a teacher's aid? If yes, how many?  | no  |
| 03  | How do you use your space? Be specific please.  | create workouts and put teams through workouts. open to staff   |
| 04  | What are your storage needs? Please describe what you need to store in your space?  | bands medicine balls. not necessarily stored but visible and accessible on walls or shelves or hooks etc  |
| 05  | Do you require access to a full size copier? Desk top copier?   | no  |
| 06  | What type of physical filing requirements do you have beyond two/ 3 drawer files? Fire-rated? What is the use of these files?   | 3 draws is perfect  |
| 07  | Do you need a surface to pin-up visuals, work, for teaching and learning? Quantity?   | yes 2-3 areas to post workouts. and best lifts records etc..  |
| 08  | Do you need more than 2 (4' x 8') marker board surfaces for teaching + learning? How much more? Please discuss the use of the marker surfaces in your space?  | no dont need more than but would liekt the 2  |
| 09  | What are your loose furniture needs in the space for surfaces? Desks, Tables, Work tables, Group work, Individual work?   | 1 desk with a computer and internet access for a supervisor to check kids in  |
| 10  | Do you have any seating needs? Chairs, Rockers, Stools. On casters?   | no  |
| 11  | Do you meet with parents, students, faculty in your space? If so how many?  | no  |
| 12  | What are your desk needs? Tables, individual desks, desk top material, on wheels/movable?   | 1 desk with a computer and internet access for a supervisor to check kids in  |
| 13  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor?   | desk top with internet ability to show videos   |
| 14  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor? Power Requirements? Water? Ventilation? (ATTACH A LIST)   |   |
| 15  | We are trying to reduce plug loads in the building which means not having a dedicated refrigerator, freezer, microwave, cook top etc...in your classrooms. Let us know what is necessary for teaching + learning and the space use. Let us know what you think is necessary here.   | power plugs available but no fridge microwave etc... needed   |
| 16  | What room/classroom would you benefit from having a critical adjacencies ?  | gymnasium   |
| 17  | How and or why do you use computers in your room? Laptop or desktop?  | desk top with internet  |
| 18  | Attach any aspirational images you have for your space you would like to share.   | Need a sound system in here as well   |
| 19  | Provide additional comments here.   | I would like to have a fitness company come in and design this for us. or do you have someone in this area to discuss what machines and how many etc...in the sq footage being proposed. I know fitness companies will send you asketch if asked  |
| 20  | We have all learned a great deal over the last year teaching/ working in person and virtually during the pandemic. What have you learned about physical space, technologies, health +wellness, and teaching methods that you think would be great to discuss as lessons learned for inclusion in the new Stoneham High School planning? Please describe as many of these lessons for the design team. | The number one priority for this space is strength and conditioning for sprots teams. We can not lose that feel and capability. But we would like to grow and provide things in this space more in line with fitness to open door to staff and other students. would like to have a section for cardio equip. and even a full line of machines. NOT sure if we can accomplish this with our space getting to crowded. Ideal would be to have a small stirp of turf to do some agility on. |

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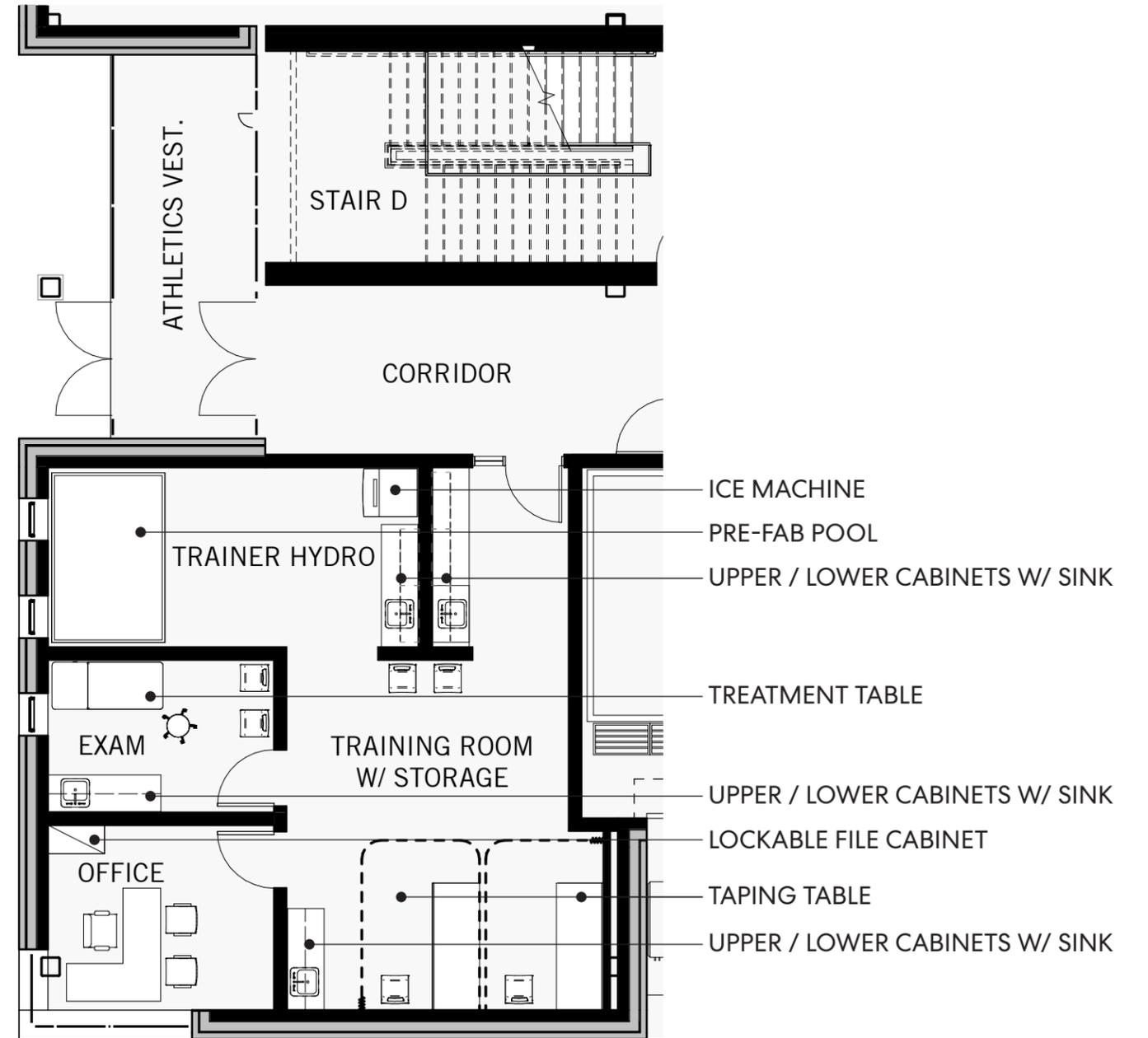


Programming Plan Layouts

Training Room Layout



Schematic Design Layout



Design Development Layout

Programming Plan Layouts

Equipment Room Survey

- Out of season equipment, soccer nets, football chains, field dressings, uniforms for all 50 teams

- Storage is very important here, shelving and any other organization plan will be welcome

Health Physical Education

**Stoneham High School**  
 Department EQUIPMENT ROOM (laundry, storage)  
 Project Number 153010.00  
 Date  
 Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

**Perkins&Will**  

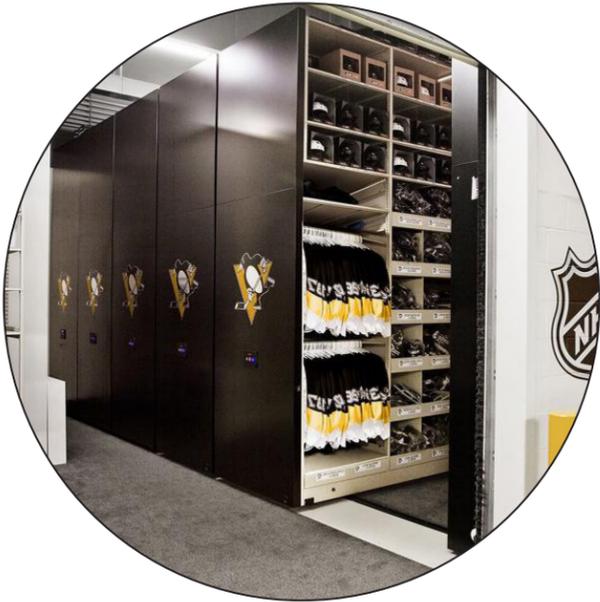
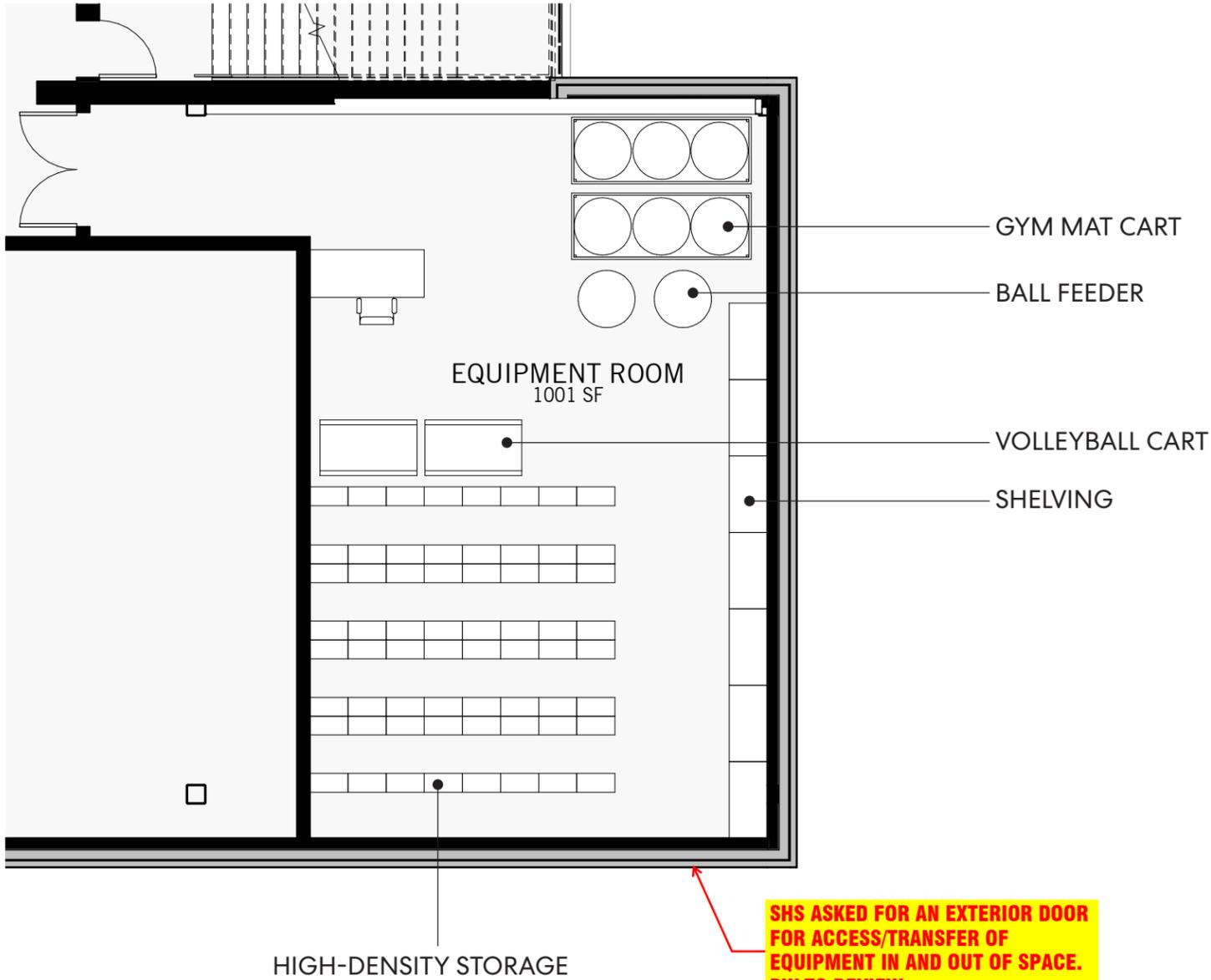

**Program Survey**

| No. | Item  | Comments   |
|-----|---|--|
| 01  | What are you storing in the space? Be specific with sizes.  | out of season equipment soccer nets , football chains and field dressings, uniforms for all 50 teams Need large buckets to store uniforms safely Typically have a large closet for every sport to keep their uniforms and their balls and their extra cones etc... |
| 02  | What type of laundry requirements do you have? Be specific.   | 2 xlg commercial washers and 2 xlg commercial dryers The washing machines are called Wascomat super senior W640 Classic and the dryers are Huebsch I am not devoted to this brand, they work great, but if there is better I am not against change                 |
| 03  | Do you require metal shelving in the space?   | Storage is very important here, shelving and any other organization plan will be welcome   |
| 04  | Attach any aspirational images you have for your space you would like to share.   | Need a desk and a desk top computer with internet abilities  |
| 05  | Provide additional comments here.   | Need an extra large work table or surface to fold clothes etc...   |
| 06  | We have all learned a great deal over the last year teaching/ working in person and virtually during the pandemic. What have you learned about physical space, technologies, health +wellness, and teaching methods that you think would be great to discuss as lessons learned for inclusion in the new Stoneham High School planning? Please describe as many of these lessons for the design team. |  |

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Programming Plan Layouts

Equipment Room Layout



HIGH DENSITY STORAGE

Programming Plan Layouts

Health Classroom Survey

Health & PE

• Health education is typically taught in large groups then broken into smaller group work.

• Being located with the rest of the PE dept is important for planning and instructional purposes.

Core Academic Spaces

Stoneham High School  
 Department HEALTH  
 Project Number 153010.00  
 Date  
 Survey Participants Leaders: David Pignone, Sara Swett, Dean Serino, Patrick Healey

Perkins&Will

Program Survey

| No. | Item   | Comments  |
|-----|--|---|
| 1   | What is your typical class size? Let us know if you have a variety of class sizes?   | Class sizes range from 15 - 30  |
| 02  | Do you have a teacher's aid? If yes, how many?   | I do not usually have teacher aid's but students may require their own support teachers.  |
| 03  | How do you use your space? Do you work in small groups? Larger groups? Individually?   | health education is typically taught in large groups then broken into smaller group work.   |
| 04  | What are your storage needs? Please describe what you need to store in your space?   | Health will need two large closets for curriculum, materials, and other educational needs storage.                                  |
| 05  | Do you require access to a full size copier? Desk top copier? Do you need a dedicated copier in your space?  | No  |
| 06  | What type of physical filing requirements do you have beyond two/ 3 drawer files? Fire-rated? What is the use of these files?  | Two 3 draw files are sufficient   |
| 07  | Do you need a surface to pin-up visuals, work, for teaching and learning? Quantity?  | Yes, Health would require two large pin-up boards for visuals and student work.   |
| 08  | Do you need more than 2 (4' x 8') marker board surfaces for teaching + learning? How much more? Please discuss the use of the marker surfaces in your space?   | Health would need three (4x8) marker boards. One is being used for projection, the others would be needed for visuals.              |
| 09  | What are your furniture needs in the space for surfaces? Desks, Tables, Work tables, Group work, Individual work?  | Desks for students, 3 work tables for group work, a teacher's desk  |
| 10  | What are your seating needs? Chairs, Rockers, Stools. On casters?  | Chair, desk, standing desk  |
| 11  | Do you meet with parents, students, faculty in your space? If so how many?   | The Youth Action Coalition meets in the health room biweekly (about 35 kids)  |
| 12  | What are your desk needs? Tables, individual desks, desk top material, on wheels/movable?  | Individual desk, desktop connected to projector, laptop for meetings or traveling teaching (outdoors, or class coverage)            |
| 13  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor?  | a standing desk option  |
| 14  | What type of special equipment do you need in your space? Desk top equipment? Equipment on the floor? Power Requirements? Water? Ventilation? (ATTACH A LIST)  | N/A   |
| 15  | We are trying to reduce plug loads in the building which means not having a dedicated refrigerator, freezer, microwave, cook top etc....in your classrooms. Let us know what is necessary for teaching + learning and the space use. Let us know what you think is necessary here. | Miniature fridge is needed to store specimen storage.   |
| 16  | What room/classroom would you benefit from having a critical adjacencies ?   | Being located with the rest of the PE dept is important for planning and instructional purposes.                                    |
| 17  | How and or why do you use computers in your room? Laptop or desktop?   | Health uses a desktop to present and meet virtually, there is a laptop being used for meeting or professional development purposes. |
| 18  | Attach any aspirational images you have for your space you would like to share.  | The ability to display work on the walls is important to station work, rotational activities  |

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It is IMPERATIVE that health education is taught in a classroom, where student would feel comfortable having difficult conversations. (Example: If the class was visible with a glass wall, I don't think talking about human sexuality would be productive...)

It has become more important for lessons to be digitized with content to be translated easily. We have moved away from traditional teaching methods into a modern educational era. The youth have experienced surges in screen time. The availability of charging stations, small group instruction, and breaks in technology is more important than ever.

Programming Plan Layouts

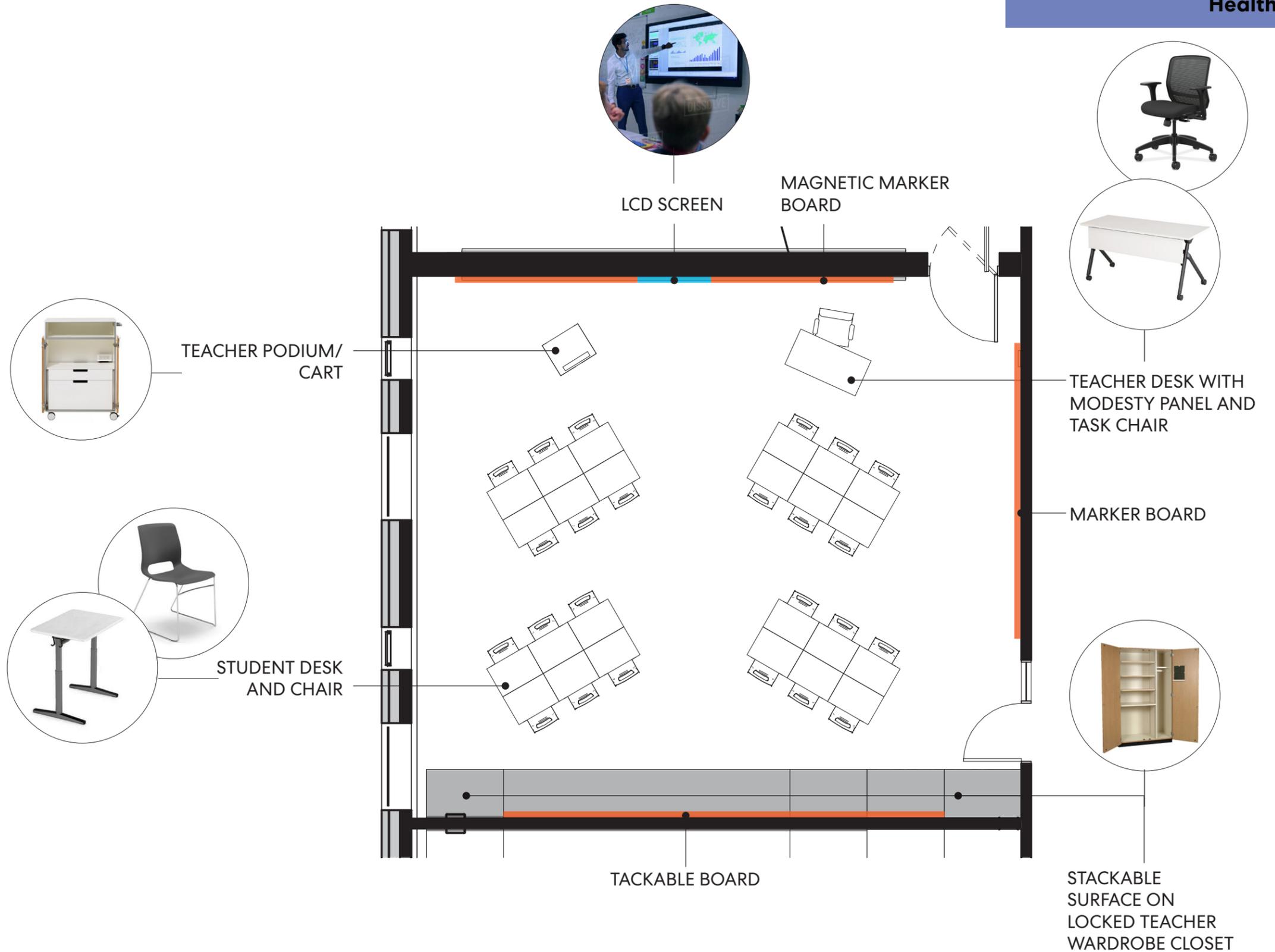
Health Classroom Layout

FF&E CHART

| Description        | Actual |
|--------------------|--------|
| Student            | 28     |
| Student ADA desk   | 1      |
| Student desk chair | 28     |
| Teacher desk       | 1      |
| Teacher task chair | 1      |
| Teacher podium     | 1      |
| LCD screen         | 1      |

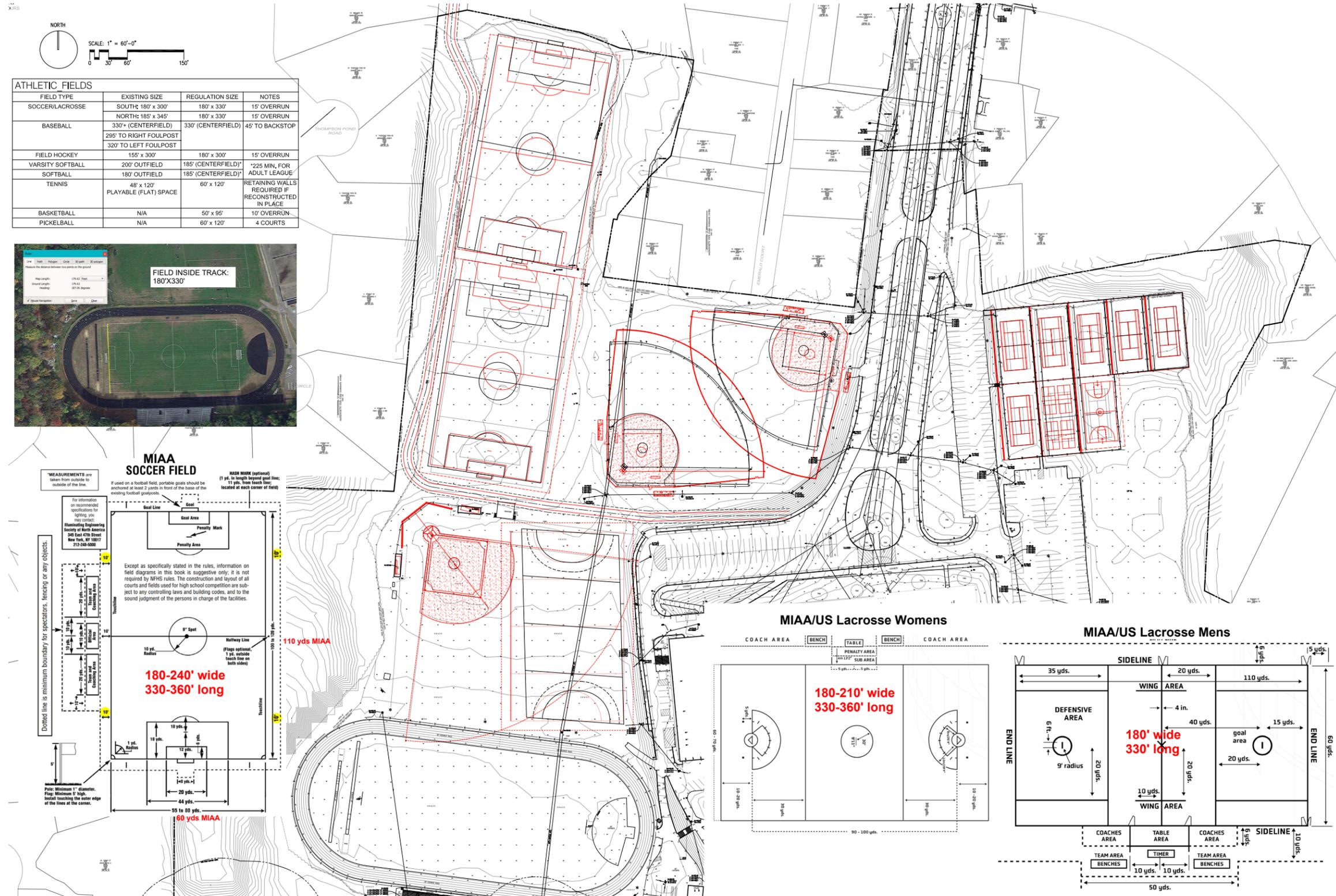
**Health Classroom Layout Feedback:**

It has become more important for lessons to be digitized with content to be translated easily. We have moved away from traditional teaching methods into a modern educational era. The youth have experienced surges in screen time. The availability of charging stations, small group instruction, and breaks in technology is more important than ever.



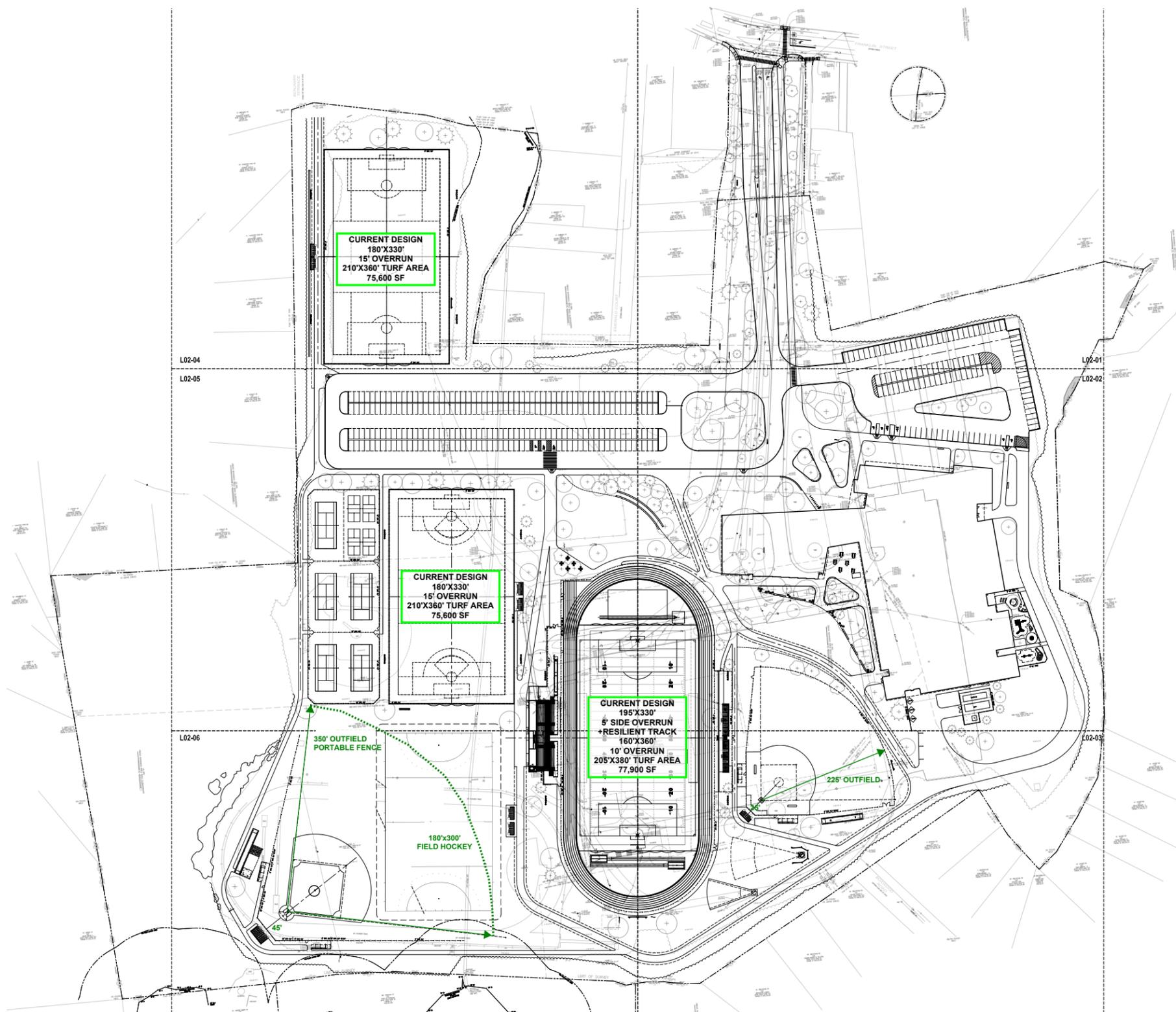
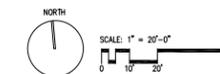
# Programming Plan Layouts

## Existing Athletic Fields with Regulation Sizes



Programming Plan Layouts

Schematic Design Site Plan with Regulation Field Sizes



- FIELD MARKINGS (ONLY 2 PERMANENT PER TURF FIELD)
- NORTH FIELD - BOYS LAX AND SOCCER
- MIDDLE FIELD - GIRLS LAX AND SOCCER
- STADIUM - FOOTBALL AND FIELD HOCKEY, WITH TICKS FOR SOCCER (195X330)

- SHS REQUESTING JAVELIN WITH RUBBER TIPS ON TURF FIELD.

- SHS PREFER DISCUS AND SHOT OUTSIDE STADIUM, BUT OK IF DISCUS IS IN STADIUM (WOULD BE BUSY WITH JAVELIN).

- SHS WAS FIRM THAT VISITOR BLEACHERS MUST BE RAISED. THE CURRENT SD PLAN SHOWS THAT.

- SHS REQUESTING ROYAL BLUE TURF IN STADIUM. NOTE: DURABILITY TO UV AND COST PREMIUM FOR RUBBER ON TRACK (CURRENTLY OWN BLACK). PW/WL TO REVIEW VISUAL IMPACT.

**- SCOREBOARD LOCATIONS:**

- @ NORTH FIELD, LOCATE IN NW CORNER (SIMILAR TO EXISTING NEAR BENJAMIN TERRACE)
- CONCERN ABOUT BASEBALL SHARING WITH MIDDLE SOCCER/LAX FIELD. SHS REQUESTING BOARDS TO BE IN A GOOD VISIBLE LOCATION FOR EACH FIELD.

- DISCUSSED BASEBALL ONLY HAVING FOUL BALL FENCES AND NO PERMANENT OUTFIELD FENCE. OUTFIELD FENCE WOULD NEED TO BE PORTABLE TO ALLOW FIELD HOCKEY. SHS AGREED THE FIELD HOCKEY IS NEEDED ON THE OUTFIELD (AND FOR OTHER FALL PRACTICES), BUT FIELD HOCKEY NEEDS TO PRACTICE ON THE STADIUM TURF.

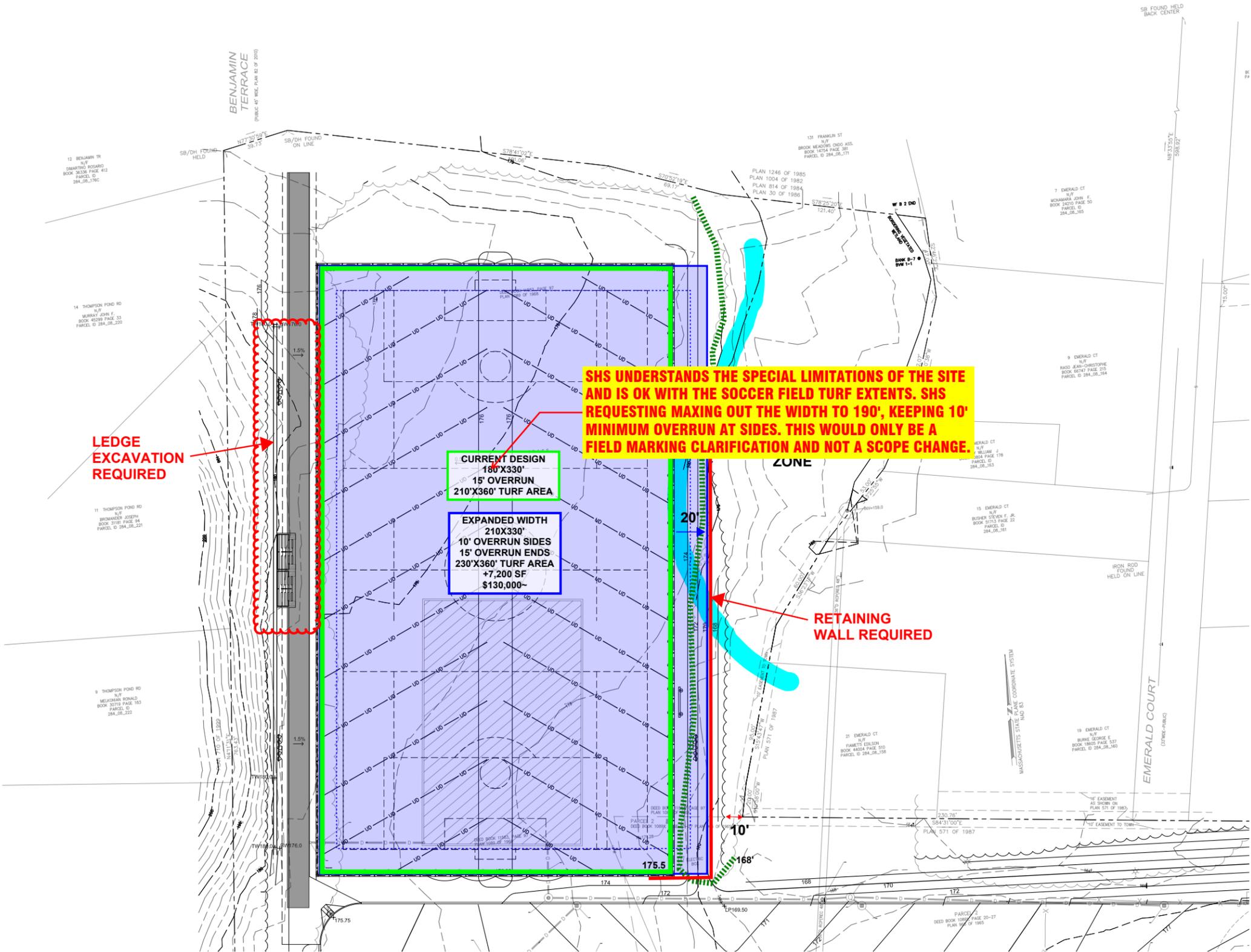
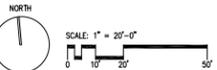
**FOLLOW UPS:**

- WL TO PREPARE A PLAN MARKUP SHOWING ALL FENCING, NETTING AND GATE LOCATIONS AND HEIGHTS. 6'-0" TALL BVC CLF AROUND STADIUM PERIMETER. COMBINATION OF FENCE AND NETTING SOCCER. 4'-0" BVS CLF BETWEEN SPECTATOR AREAS AND TRACK.

- WL TO SHOW FIELD MARKINGS ON PLAN.

# Programming Plan Layouts

## North Soccer/LAX Field Sizes



**LEDGE  
EXCAVATION  
REQUIRED**

**CURRENT DESIGN**  
180'X330'  
15' OVERRUN  
210'X360' TURF AREA

**EXPANDED WIDTH**  
210'X330'  
10' OVERRUN SIDES  
15' OVERRUN ENDS  
230'X360' TURF AREA  
+7,200 SF  
\$130,000~

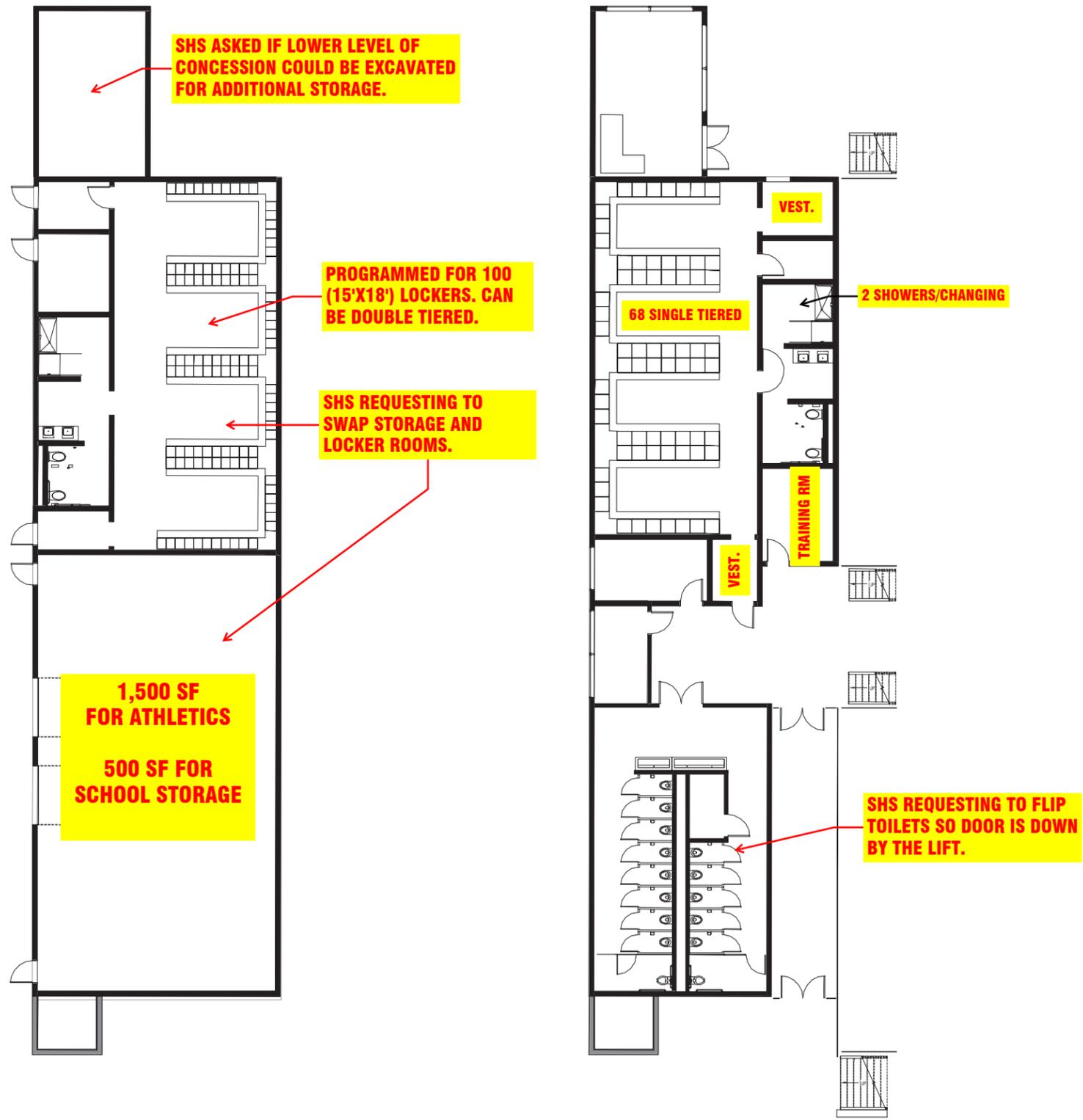
**SHS UNDERSTANDS THE SPECIAL LIMITATIONS OF THE SITE AND IS OK WITH THE SOCCER FIELD TURF EXTENTS. SHS REQUESTING MAXING OUT THE WIDTH TO 190', KEEPING 10' MINIMUM OVERRUN AT SIDES. THIS WOULD ONLY BE A FIELD MARKING CLARIFICATION AND NOT A SCOPE CHANGE.**

**RETAINING  
WALL REQUIRED**



# Programming Plan Layouts

## Stadium Design Development - Plans

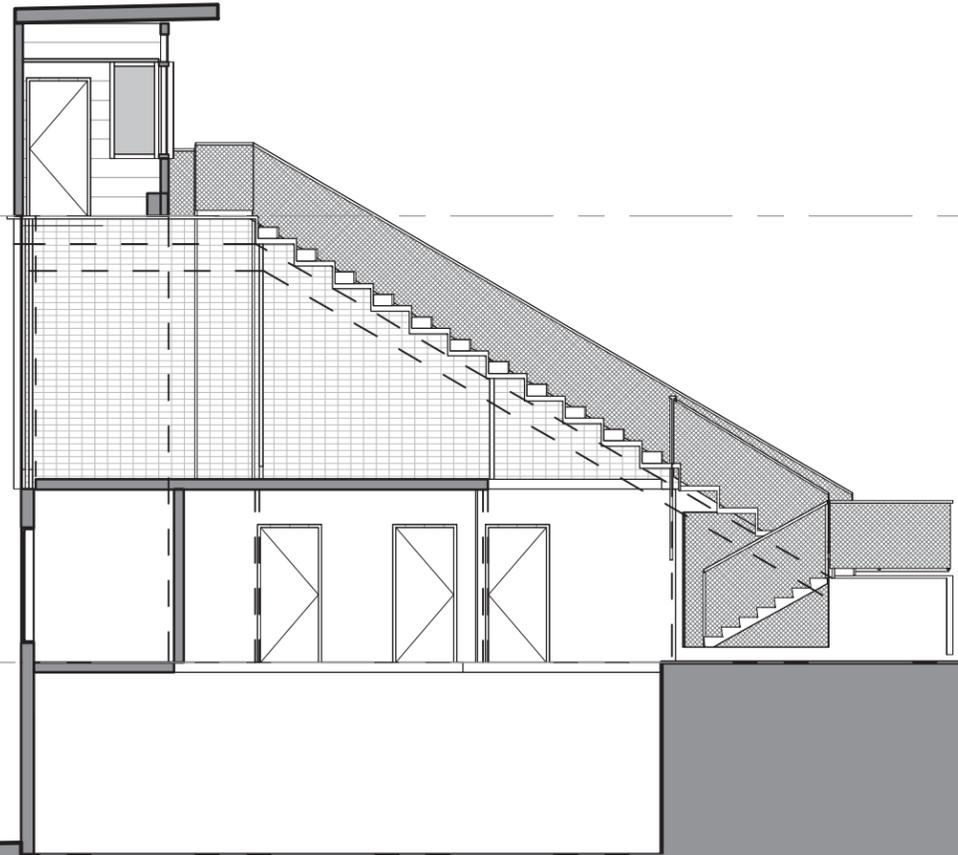


- PW TO REVIEW WITH SHS ACCESS FROM LEVEL 00 TO FIELDS.  
- SHS REQUESTED HEAT IN ENTIRE BUILDING. STORAGE IS CURRENTLY THE ONLY AREA NOT HEATED.

Programming Plan Layouts

Stadium Design Development - Section

- PRESS BOX, PREMANUFACTURED. OPERABLE WINDOWS, SLOPED ROOF, WIRED FOR ELECTRIC HEATING, AIR EXCHANGE, TEL/ DATA, CONNECTIONS TO SOUND, DIGITAL CONTROLS, ETC
- STEEL STRUCTURE TO SUPPORT BLEACHERS, PRESS BOX, LULA. NOTE: ALL STEEL TO BE PAINTED
- LULA
- SCREENED IN UNDER BLEACHERS
- PUBLIC BATHROOMS, LOCKER ROOM, COACHES, TRAINER
- OPERABLE WINDOW
- LOWER LEVEL LOCKER ROOM, BEYOND
- STORAGE IN UNFINISHED SPACE
- EMERGENCY ACCESS ROAD
- LOWER SPORTS FIELDS



BLEACHERS - TOP  
197' - 2"

LEVEL 01 - CONCESSIONS  
174' - 0"

LEVEL 00 - CONCESSIONS  
164' - 0"

**Thank you!**

**Stoneham High School  
Design Development Phase  
SSBC Comments**

| No. | Date       | SSBC Member    | Comment  | P&W Response |
|-----|------------|----------------|--|--------------|
| 1   | 12/15/2021 | Lisa Gallagher | Where is the Safety Resource Officer's office located? Will it be in the front office? |              |



## MARKET OUTLOOK: OCTOBER 2021

Peter Capone, Director of Purchasing & Jared Lachapelle, VP of Pre-construction

The trends we're seeing have a common theme—every project in every sector is feeling the supply and cost problems in our economy. To guide our project partners, we've outlined Consigli's perspective on material cost and delay risks based on current and future global and domestic conditions, along with strategies for mitigating these risks.

### CURRENT TRENDS

- ▶ **Product Availability** - Plant shutdowns caused by winter freezes and hurricanes are still affecting domestic chemical plant output of PVCs, resins, adhesives, and other raw materials used for producing many construction materials. Reliance on overseas supply from Asia has become common place. The increased volume has congested seaports on the west coast causing extreme back-ups. Supply chain delays are making it difficult to acquire materials.

**Although we're seeing delays, cargo lane disruptions are reported to have peaked in September and are slowly clearing. We anticipate a steady improvement of material availability starting in 2022.**

- ▶ **Pricing Challenges** - Lack of supply and high demand for labor, shipping containers, and ground transportation, is also influencing prices. Many manufacturers are not quoting prices at time of order or only holding quoted prices for a week or less. Several manufacturers are taking orders but charging prices in affect when products are delivered.

**With a strong pipeline of work keeping demand for materials high, we do not expect dramatic drops in pricing. We do anticipate material flow improvements and domestic manufacturing plant upgrades contributing to higher domestic production, stabilizing pricing in 2022.**

**12%** Escalation  
year to date

**3%** Additional Escalation  
through December 2021



**Expected Labor Shortage**  
increasing in second half of 2022

### MATERIAL LEAD TIMES

| Material                                       | 9/1/2021<br>(weeks for fabrication<br>after release) |
|--|--|
| Steel Joist                                    | 40   |
| Steel Deck                                     | 26   |
| M/E/P Equipment                                | 24   |
| Roofing Insulation                             | 24   |
| Lab Casework                                   | 20   |
| Mineral / Rock Wool                            | 20   |
| Aluminum                                       | 12   |
| Glass  | 10   |
| Roofing membranes                              | 8  |
| Structural Steel                               | 8  |
| Light Gauge Metal Framing                      | 4  |
| PVC Conduit                                    | 4  |
| Shaft Wall Liner / Moisture<br>Resistant Board | 4-6  |
| Gypsum Wall Board                              | 3  |
| Intumescent Paint                              | TBD  |

Significant delays

### MATERIAL COST INCREASES

| Critical Material         | Expected Escalation<br>(10/1/21 - 12/31/21) | Expected Escalation<br>2022 (Q1 & Q2) |
|---------------------------|---|---------------------------------------|
| Roofing Insulation*       | 20%   | 5%                                    |
| Roofing Membranes*        | 20%   | 3-5%                                  |
| Gypsum Wall Board*        | 15%   | 5-10%                                 |
| Light Gauge Metal Framing | 10%   | 5-10%                                 |
| Glass                     | 12%   | 0-3%                                  |
| Aluminum                  | 8%  | 0-3%                                  |
| M/E/P Equipment*          | 5%  | 0-5%                                  |
| Structural Steel          | 5%  | 0-3%                                  |
| Plastics                  | 5%  | 0-3%                                  |
| Copper Wiring/Cabling     | 5%  | 0-3%                                  |
| Structural Lumber         | -2%   | - 5-7%                                |

Large manufacturers are not willing to take the risk of price escalation & are refusing to hold prices. As a result, subcontractors are being charged market increases at the time of delivery.

## ITEMS TO WATCH

- ▶ **Field Labor (Vaccination Mandates):** Coupled with an already strained labor market, President Biden's recent vaccination mandates will make it increasingly challenging for subcontractors to supply trade labor on projects with vaccination requirements. We've received feedback from subcontractors (in the New England area) stating that approximately 60-70% of field labor is currently vaccinated.
- ▶ **Field Labor (Infrastructure Bill):** The incoming \$1 trillion, bipartisan infrastructure plan, with over \$500 billion slated for construction related projects, will place additional burden on the labor workforce. Something to keep an eye on for late 2022 and into the future.
- ▶ **Production of Specialty Products:** Manufacturers of many materials such as drywall, acoustical ceilings, and M/E/P equipment are using plant capacity to produce more commonly used materials, limiting (and sometimes discontinuing), specialty product lines.
- ▶ **Burn-off of Existing Inventory Keeping Prices High:** With steel mill capacity increasing, prices are expected to level off soon, but only after higher-priced inventories are cleared.
- ▶ **Quality:** Equipment manufacturers are sourcing parts from alternate vendors due to supply issues. Component substitutions sourced from alternate manufacturers (such as fan motors), are resulting in compatibility and quality issues within the units. Field repairs have been required to rectify during start-up and testing.
- ▶ **Roofing Materials:** The National Roofing Contractors Association is cautioning that product shortages for roofing materials and roof insulation will continue through 2022 due to the raw materials supply issue. Lead times for roofing insulation is now at 24 weeks after order.

## STRATEGIES FOR RISK MANAGEMENT

**LOCK IN PRICE ESCALATION.** Lock in subcontractors that are willing to commit to future price escalation and take on material escalation risk. Follow up by expediting contract distribution and execution.

**LEVERAGE BUYING POWER.** Bulk purchase and package projects whenever possible to avoid costly piece-meal cost premiums and material delays.

**SOURCE ALTERNATE SUPPLIERS.** Collaboratively work with design partners to broaden range of suitable manufacturers and products to insure on time deliveries.

**IMPLEMENT STRINGENT QA/QC PROTOCOLS.** Some manufacturers are struggling to acquire components for their products, calling for substitute materials and alternate component manufacturers. This has resulted in field repairs of faulty equipment during start-up and testing.

**MATERIAL DELIVERY VERIFICATION.** Focus on weekly material verification utilizing technology and plant visits to ensure quality and schedule certainty.

**PRE-PURCHASE & STORE MATERIALS.** Pre-purchase long lead materials such as M/E/P equipment, steel joist, steel decking, and equipment and consider early delivery and more on-site storage.

**IDENTIFY PEAK MANPOWER.** Define requirements with subcontractors and receive firm commitments to staff projects.

**UTILIZE PRE-FABRICATION.** Identify opportunities to maximize pre-fabrication strategies to take labor off-site and lock in resources and materials earlier in the project.

**PARTNER THROUGH DESIGN-ASSIST.** Consider using design-assist trades to secure labor, materials, and a collaborative partner to work through current market risks early in the process.

**THOUGHTFUL PRE-QUALIFICATION.** Increase diligence in assessment of backlog, resources, and capacity, as well as buying power.

**ELIMINATE LOWER TIER RISK WHEN POSSIBLE.** Consider using vertically integrated subcontractors that buy raw materials direct and fabricate in-house. Hire trade partners that control material flow to avoid potential price escalation risk due to delay in hiring lower tier subs (e.g. HVAC subcontractors that broker work).

## Memorandum

To: Stoneham School Building Committee  
From: Joel G. Seeley  
Project: Stoneham High School  
Re: School Building Committee Subcommittees and Working Groups  
Distribution: (MF)

Date: 12/10/2021  
Project No.: 20033

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### Construction Phasing Working Group

- David Pignone
- David Bois
- Dennis Sheehan
- John Macero

### Green Building Initiatives Working Group

- Marie Christie
- David Bois
- Raymie Parker
- Dennis Sheehan
- John Macero
- Brian McNeil
- April Lanni

### Educational Mission Subcommittee

- Jeanne Craigie
- Josephine Thomson
- Nicole Nial
- Lisa Gallagher
- Sharon Iovanni
- John Macero
- Bryan Lombardi

### Playfields Subcommittee

- David Pignone
- Marie Christie
- David Bois
- Nicole Nial
- Steve O'Neill
- Josephine Thomson
- Paul Ryder
- Kevin Yianacopolus
- Bryan Lombardi
- Brian McNeil
- April Lanni

### Security Subcommittee

- Raymie Parker
- Sharon Iovanni
- Lisa Gallagher
- Bryan Lombardi
- Kevin Yianacopolus
- Brian McNeil
- Marie Christie
- David Bois
- Dennis Sheehan
- John Macero

To: Stoneham School Building Committee  
Date: 12/10/2021

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### Public Relations Subcommittee

- Sharon Iovanni
- Marie Christie
- Nicole Nial
- Raymie Parker
- Lisa Gallagher
- David Bois
- John Macero
- Bryan Lombardi
- Dennis Sheehan

### Interior Finish Materials Subcommittee

- TBD

### Financial Subcommittee

- TBD

## Project Minutes

Project: New Stoneham High School  
 Prepared by: Joel Seeley  
 Re: Green Building Initiatives Meeting  
 Location: Remote Locations  
 Distribution: Attendees (MF)

Project No.: 20033  
 Meeting Date: 12/6/2021  
 Time: 10:00am  
 Meeting No: 17

## Attendees:

| PRESENT | NAME               | AFFILIATION                                  |
|---------|--------------------|--|
|         | Marie Christie     | Co-Chair, School Building Committee          |
|         | David Bois         | Co-Chair, School Building Committee          |
|         | Raymie Parker      | Chair, Select Board                          |
| ✓       | Dennis Sheehan     | Town Administrator                           |
|         | April Lanni        | Town Procurement Officer / MCPPO Certified   |
| ✓       | John Macero        | Superintendent of Schools                    |
|         | Brian McNeil       | Facilities Director                          |
| ✓       | Erin Wortman       | Director, Planning and Community Development |
| ✓       | Susan McPhee       | Energy Conservation Coordinator              |
|         | David Mauer        | School Committee                             |
|         | Vamshi Gooje       | Thornton Tomasetti                           |
| ✓       | Xiaoshu Du         | Thornton Tomasetti                           |
|         | Brooke Trivas      | Perkins and Will                             |
| ✓       | Patrick Cunningham | Perkins and Will                             |
| ✓       | Stephen Messinger  | Perkins and Will                             |
| ✓       | Ryan Flynn         | BALA   |
|         | Jonathan Patch     | McPhail                                      |
| ✓       | Steve Burke        | Consigli                                     |
| ✓       | Tom Michelman      | SEA  |
| ✓       | Robert Smith       | SMMA   |
| ✓       | Joel Seeley        | SMMA   |

| Item # | Action  | Discussion  |
|--------|---|---|
| 17.1   | D. Sheehan<br>E. Wortman<br>S. Messinger<br>S. Burke<br>J. Seeley<br>A. Lanni<br>T. Michelman | <b>Photovoltaic (PV) System</b> <ol style="list-style-type: none"> <li>D. Sheehan to send sample Terms and Conditions used on the Middle School and Ice Arena PV Projects to T. Michelman. <i>(from prior meeting)</i></li> <li>E. Wortman to send a copy of the Community Solar Agreement to T. Michelman. <i>(from prior meeting)</i></li> <li>D. Sheehan to confirm which Town entity, School Committee or Select Board, is to sign the PV Agreement and Lease. <i>(from prior meeting)</i></li> </ol> |

| Item # | Action                    | Discussion   |
|--------|---------------------------|--|
|        |                           | <ol style="list-style-type: none"> <li>4. D. Sheehan will confirm with Town Counsel on the whether the School Committee or Select Board will sign the Letter of Support with the PV Vendor for the SMART Program. <i>(from prior meeting)</i></li> <li>5. T. Michelman has all received the documents listed on the Data Request Form, except the Electrical One-Line Diagram.<br/><i>S. Messinger to send the Electrical One-Line Diagram to T. Michelman.</i></li> <li>6. T. Michelman requested a copy of the electrical load letter sent to Eversource.<br/><i>S. Messinger to send the Electrical Load letter to T. Michelman</i></li> <li>7. Draft RFP Review             <ol style="list-style-type: none"> <li>a. A. Lanni, S. Burke, J. Seeley and P. Cunningham to provide comments on the draft RFP to T. Michelman.</li> <li>b. J. Seeley to schedule a meeting with D. Sheehan, A. Lanni and Town Counsel to review the RFP.</li> <li>c. T. Michelman to provide a listing of the specific documents the Town is to provide for the RFP.</li> </ol> </li> <li>8. S. Burke to draft a listing of the PV related scope that is included in the Schematic Design estimate, such as underground conduits connecting PV carports, solar switchboard, battery, solar transformer, PV panels etc.</li> </ol> |
| 17.2   | V. Gooje<br>P. Cunningham | <p><b>Energy Model</b> <i>(from prior meeting)</i></p> <ol style="list-style-type: none"> <li>1. Areas to review during Design Development phase to reduce the EUI: 1) Plug Load Management, and 2) Fan Power.</li> <li>2. S. McPhee suggested other means to reduce the LPD: 1) provide task light for the teacher's desk – <i>P. Cunningham will review with FFE</i>, 2) provide shades starting 18 inches down from the top of the window - <i>P. Cunningham will review</i></li> </ol>   |
| 17.3   | R. Flynn                  | <p><b>Full Load Electrical Capacity at Franklin Street</b></p> <p>R. Flynn will follow-up with Eversource on the Load Letter sent to Eversource.</p>   |
| 17.4   | J. Patch                  | <p><b>Geothermal Wells</b></p> <ol style="list-style-type: none"> <li>1. Geothermal test well conductivity test will be performed on 12/13/21.</li> </ol>  |
| 17.5   | Record                    | <p><b>Next Green Building Initiatives Meeting: Monday, 12/20/2021 at 10:00am, remote.</b></p>  |

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes

1000 Massachusetts Avenue  
 Cambridge, MA 02138  
 617.547.5400

[www.smma.com](http://www.smma.com)

## Project Minutes

Project: New Stoneham High School Project No.: 20033  
 Prepared by: Joel Seeley Meeting Date: 12/6/2021  
 Re: PR Subcommittee Meeting Time: 6:15pm  
 Location: Central Middle School Library and Remote Participation Meeting No: 24  
 Distribution: Attendees (MF)

## Attendees:

| PRESENT | NAME           | AFFILIATION   |
|---------|----------------|---|
| ✓       | Sharon Iovanni | Chair PR Subcommittee, Community Member   |
| ✓       | Marie Christie | Co-Chair School Building Committee  |
| ✓       | Nicole Nial    | School Committee Member   |
| ✓       | Raymie Parker  | Chair, Select Board   |
| ✓       | Lisa Gallagher | Community Member, School Secretary, Past member of Middle School Building Committee |
| ✓       | David Bois     | Co-Chair School Building Committee  |
| ✓       | John Macero    | Superintendent of Schools   |
|         | Bryan Lombardi | Principal   |
|         | Dennis Sheehan | Town Administrator  |
| ✓       | Brooke Trivas  | Perkins and Will  |
| ✓       | Kristy Lyons   | Consigli  |
|         | Todd McCabe    | Consigli  |
| ✓       | Joel Seeley    | SMMA  |

| Item # | Action   | Discussion  |
|--------|--|---|
| 24.1   | Record   | A motion was made by S. Iovanni and seconded by R. Parker to approve the 9/29/21 PR Subcommittee meeting minutes. No discussion, motion passed unanimous.   |
| 24.2   | PR Subcommittee<br>K. Lyons<br>J. Seeley<br>D. Sheehan | <p><b>PR During Design and Construction</b></p> <ol style="list-style-type: none"> <li>1. Project update press releases and social media posts, drafted by PR Subcommittee, to be approximately every two months, starting in January 2022, and at key milestone events, such as:               <ol style="list-style-type: none"> <li>a. Design Development Submission</li> <li>b. 60% Construction Documents Submission</li> <li>c. 90% Construction Documents Submission</li> <li>d. Ground Breaking Ceremony</li> <li>e. Topping-Off Ceremony</li> </ol> </li> <li>2. Press releases and social media posts to be issued in May 2022 to review traffic circulation during Phase I construction, including neighborhood meetings.</li> </ol> |

| Item # | Action | Discussion   |
|--------|--------|--|
|        |        | 3. K. Lyons indicated that during construction Consigli will provide regular updates that can be uploaded to the SSBC Website, including drone images. K. Lyons and J. Seeley to coordinate with D. Sheehan on automatic notifications to residents from the SSBC Website.   |
| 24.3   | Record | <b>SSBC Member On-Site Construction Progress Photographs</b><br>1. M. Christie asked if a SSBC member wanted to take on-site construction photographs of the construction progress and post on social media, would that be acceptable?<br><i>K. Lyons indicated Consigli would require that all on-site construction photographs be submitted to Consigli for review prior to posting.</i> |
| 24.4   | Record | Next <b>PR Subcommittee Meeting: January 10, 2022 at 6:30pm</b> at the Central Middle School Library and Remote Participation  |
| 24.5   | Record | A Motion was made by R. Parker and seconded by M. Christie to adjourn the meeting. No discussion, motion passed unanimous.   |

The information herein reflects the understanding reached. Please contact the author if you have any questions or are not in agreement with these Project Minutes