

STONEHAM HIGH SCHOOL

Building Committee Meeting



2.07.2022

AGENDA

1\ Exterior Design Updates

A\ Classroom Window Sizes

B\ Curtain Wall Development

C\ Entry Graphics

2\ Energy Model Update

3\ Outdoor Projection



EXTERIOR DESIGN UPDATE

Building Committee Meeting

Exterior Design – Classroom Windows

Lowered Window Head

Removed Interior
Soffits in Classrooms



Perkins&Will

Exterior Design – Classroom Windows

Lowered Window Head

Removed Interior
Soffits in Classrooms



Perkins&Will

Exterior Design – Curtain Wall Development

Mullion Color
Warm Mid-Grey Color

Simplified Pattern
Standard Sizes

6" Stone Base
for Durability



Exterior Design – Curtain Wall Development

Simplified Pattern —
Standard Sizes

Added Wind Girt —
More Economical For
Large Areas of Glass

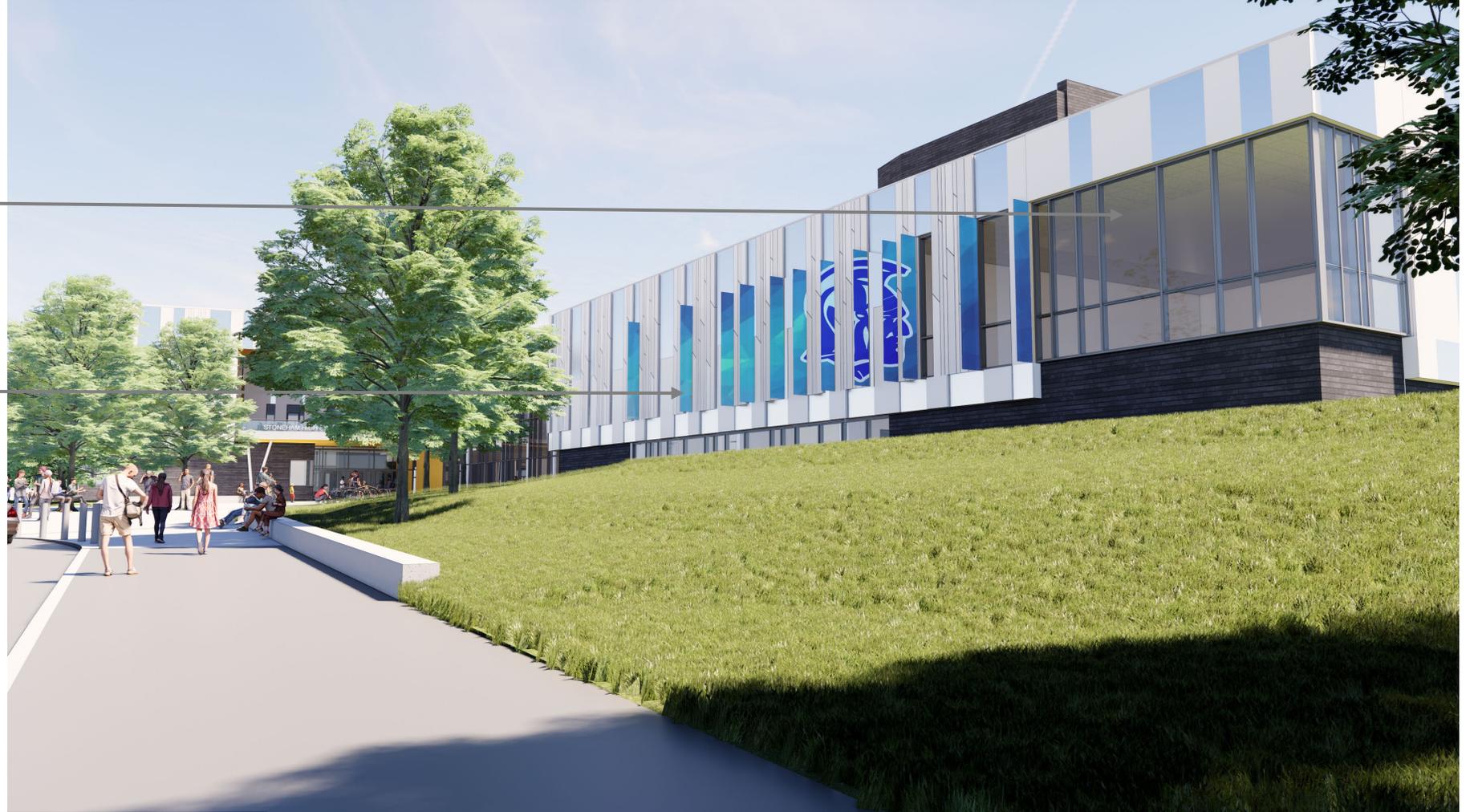


Perkins&Will

Exterior Design – Entry Graphic

Simplified Pattern
Band/Chorus Room
Window Composition

Entry Graphics
To be Developed
in CDs



ENERGY MODEL UPDATE

Building Committee Meeting

75% DD Energy Model Update

SD EUI of 26.5 (after VE)

PV Scope based on SD performance

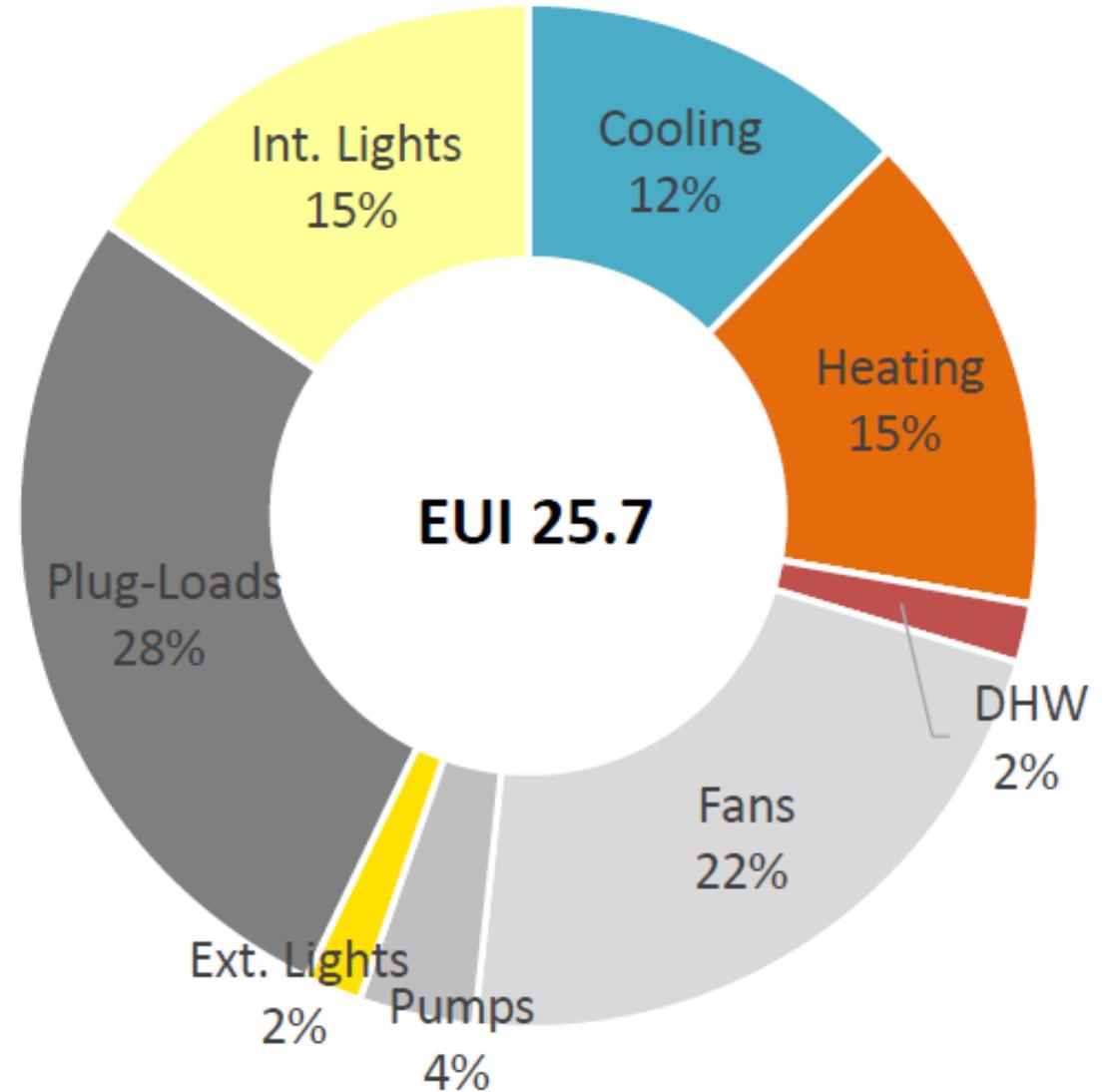
DD EUI of **25.7**

Defined project specific mechanical equipment targeting efficiencies.

Refined equipment locations and sizes allowing reduction of fan power .17 w/cfm

The lighting power requirements were reduced based on the DD design from .6 to .4 W/sf

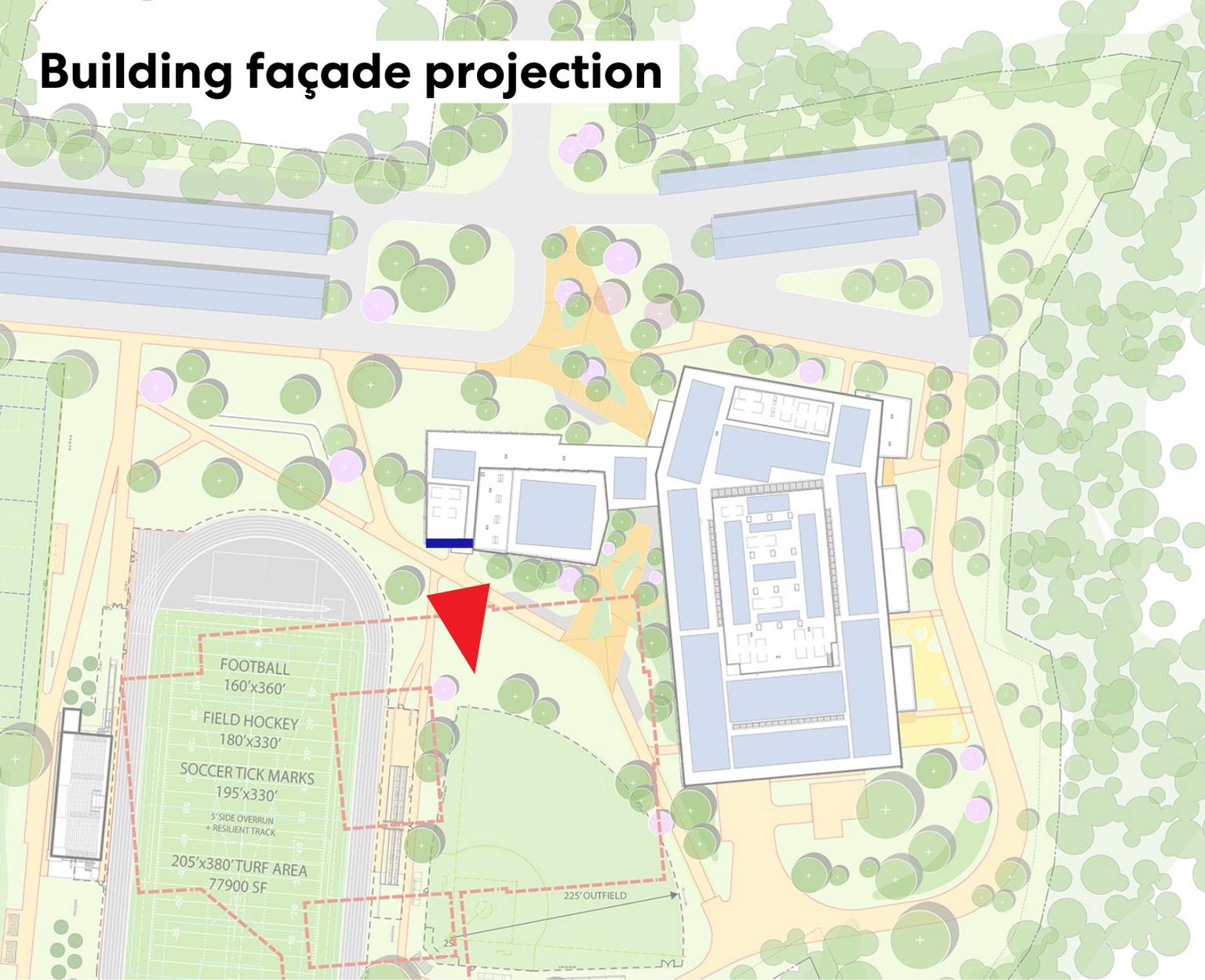
This baseline allows us to study the cost benefit of triple glazed windows and exterior shading



OUTDOOR PROJECTION

Building Committee Meeting

Building façade projection



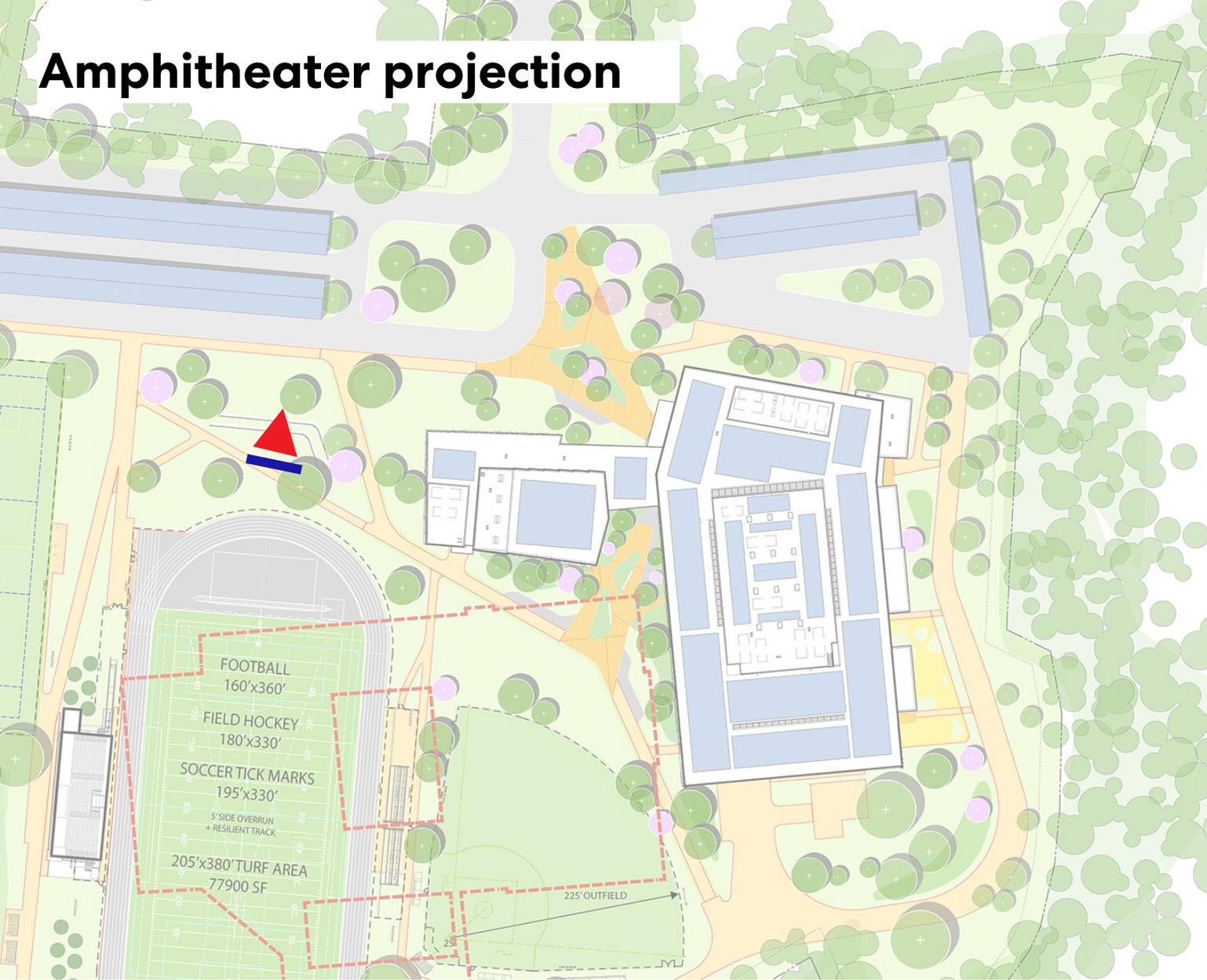
Pros

- Visible from stadium and baseball field
- Orientation (looking north)

Cons

- Daylight brightness
- Lack of Lawn seating
- Adds another façade material
- Lawn slopes away from screen

Amphitheater projection



Pros

- Views to stadium upon approach
- Alignment with stadium

Cons

- Grading – large amount of fill
- Projection surface is not permanent

Amphitheater projection



Inflatable screen

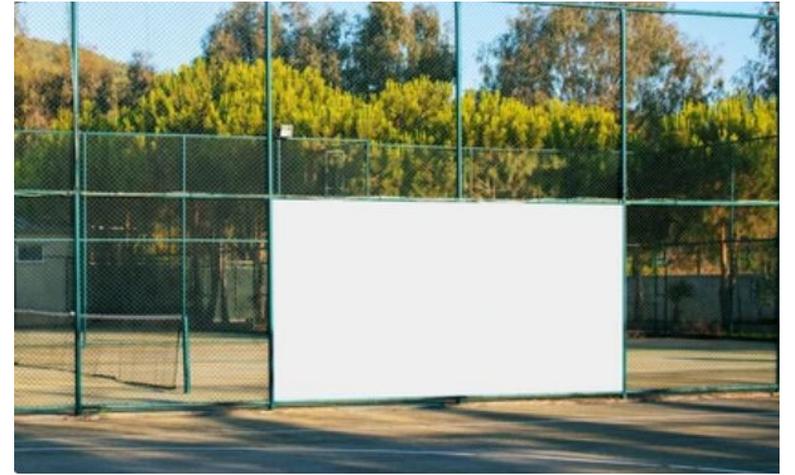
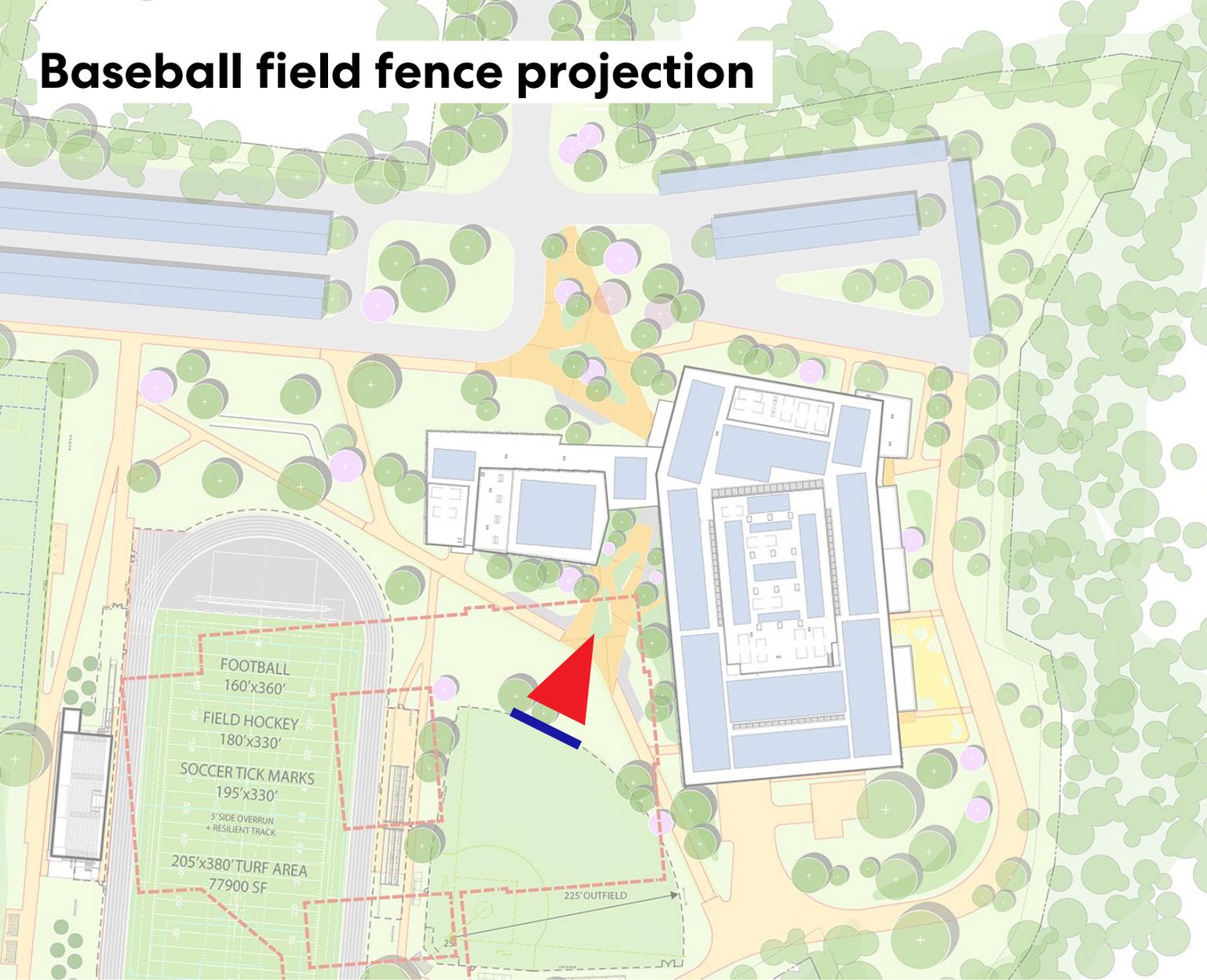


Foldable screen



Tensile fabric screen on metal poles

Baseball field fence projection



Pros

- Alignment with plaza
- Views from the building
- Lawn slopes up away from screen

Cons

- Daylight brightness
- Projection surface is not permanent



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?	<i>At the 1/10/22 SSBC meeting, J. Macero indicated the SRO has an office in the middle school and that when the SRO is at the high school, the SRO would be continuously out in the building actively involved and may have a kiosk-type space near Spartan Place</i>
2	1/13/2022	N. Nial	I am concerned about shrinking the size of the gymnastics mat. We specifically asked for a larger gym (16,000 sq/ft) because of our gymnastics program. It was one of the items unique to Stoneham. A 40' x 40' only takes up 1600 sq/ft of the additional 4000 sq/ft (16000 vs 12000). I would really like to see if there is a way to keep the full mat. Is there a way to redesign the gym to accomplish this?	<i>At the 1/24/22 SSBC meeting, the SSBC selected Gymnasium Layout B, which provides for the 42' x 42' gymnastics mat.</i>
3	1/13/2022	N. Nial	I would also like to discuss having a SRO Office at the high school. I realize Stoneham has an office at the middle school, but as we have discussed on multiple occasions, the middle school is bursting at the seams. One of the reasons why we couldn't house district offices there. Would we be able to cut some space out of one of the conference rooms near the front of the high school to provide a simple office for the SRO? Nothing fancy, a desk, phone, and a locked cabinet (drawers or closet -- whatever fits).	<i>At the 1/25/22 Security Subcommittee meeting, J. Macero indicated the school administration will work with Perkins&Will to find a suitable location in the new high school to accommodate an approximate 150 square foot office for the SRO.</i>
4	1/24/2022	R. Parker	Dave Bois, brought up the media bridge and could there be potential art or branding, on some of the brick/tile/wall: I think it a great location for branding, as that will be a space, not only students will use, but theater goers/adults who may be meeting in media room/rentals as well.	<i>We can discuss 'branding' formal branding is not in our scope (like Billerica) happy to discuss. It is a real bonus working with our branding team. The results as you may have seen are fantastic.</i>
5	1/24/2022	R. Parker	Skylights over gym: What about if we get snow? Are they tilted in a way to have snow melt, or will maintenance, need to remove the snow? I like the natural light, and hope it would not be compromised by winter storms or make more work for staff.	<i>We have done this detail successfully before. The details provide the ability to shed the snow and allow for the snow loads.</i>

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

No.	Date	SSBC Member	Comment	P&W Response
6	1/24/2022	R. Parker	In the different school zones: Will there be different color schemes: Example: green section= science, Blue=math, or different floors different shades? Maybe that comes later with the interior finish group?	<i>We will present a proposal for the interiors group. We have been looking at this.</i>
7	1/24/2022	R. Parker	Theater: Sound and light room: are they two different spaces, and why not just one room?	<i>The Sound Control Room and Lighting Control Room are two different spaces. The primary purpose of a control room is to provide an acoustically isolated space in which the crew can operate production effects and ancillary services (such as recording, broadcast, captioning services for the deaf and audio description of the visual elements for the blind) during the performance. If many workstations are required, such as both lighting, audio, and projection, it is common to subdivide the control room for increased acoustic separation between work spaces. The advantage of a subdivided room is that all functions and personnel are in one location, but the rooms are separated acoustically so that a sound operator might work with an open window into the auditorium while the stage manager might work with a closed window. In addition, the theater director did request that the control room be subdivided as shown.</i>
8	1/24/2022	R. Parker	2 Cat walks: is that the standard, or is one efficient enough?	<i>Standard and we have what is needed.</i>
9	1/24/2022	R. Parker	The walls that will bounce sound: How are they created? Lizzy mentioned rock wall?	<i>We are shaping the inner liner of the auditorium house walls in a way that is reminiscent of and inspired by rock formations, but is actually formed used the simple materials of metal stud framing and painted gypsum board.</i>
10	1/24/2022	R. Parker	Pre K: In one of the graphics it showed entry to pre K from the interior of high school. Can we get more detailed info and graphics of the pre K designs.	<i>We don't have this yet.</i>