

NEW STONEHAM HIGH SCHOOL

Stoneham Town Meeting



10.4.2021

School Building Committee Members

Marie Christie	Co-Chair	Cory Mashburn	Finance & Advisory Board
David Bois	Co-Chair	Paul Ryder	Community Member
Nicole Nial	School Committee Member	David Pignone	Athletic Director
Raymie Parker	Chair Select Board	Kevin Yianacopolus	High School Facilities
Douglas Gove	Community Member	Dennis Sheehan	Town Administrator
Stephen O'Neill	Community Member	John Macero	Superintendent of Schools
Josephine Thomson	Community Member	Bryan Lombardi	High School Principal
Jeanne Craigie	Town Moderator	Brian McNeil	Town Facilities Director
Lisa Gallagher	Middle School Admin.	April Lanni	Town Procurement Officer
Sharon Iovanni	Community Member		

Architect

Perkins&Will

OPM

Symmes Maini and McKee Associates

Construction Manager

Consigli Construction Co.

Perkins&Will

SMMA

Project Management



CONSIGLI

Est. 1905

Why do we need a new High School?

Threat to accreditation.

Current Campus:

Junior High School (1968)

53 YEARS OLD

Senior High School (1980)

41 YEARS OLD



Perkins&Will

SMMA

Project Management



CONSIGLI
Est. 1905

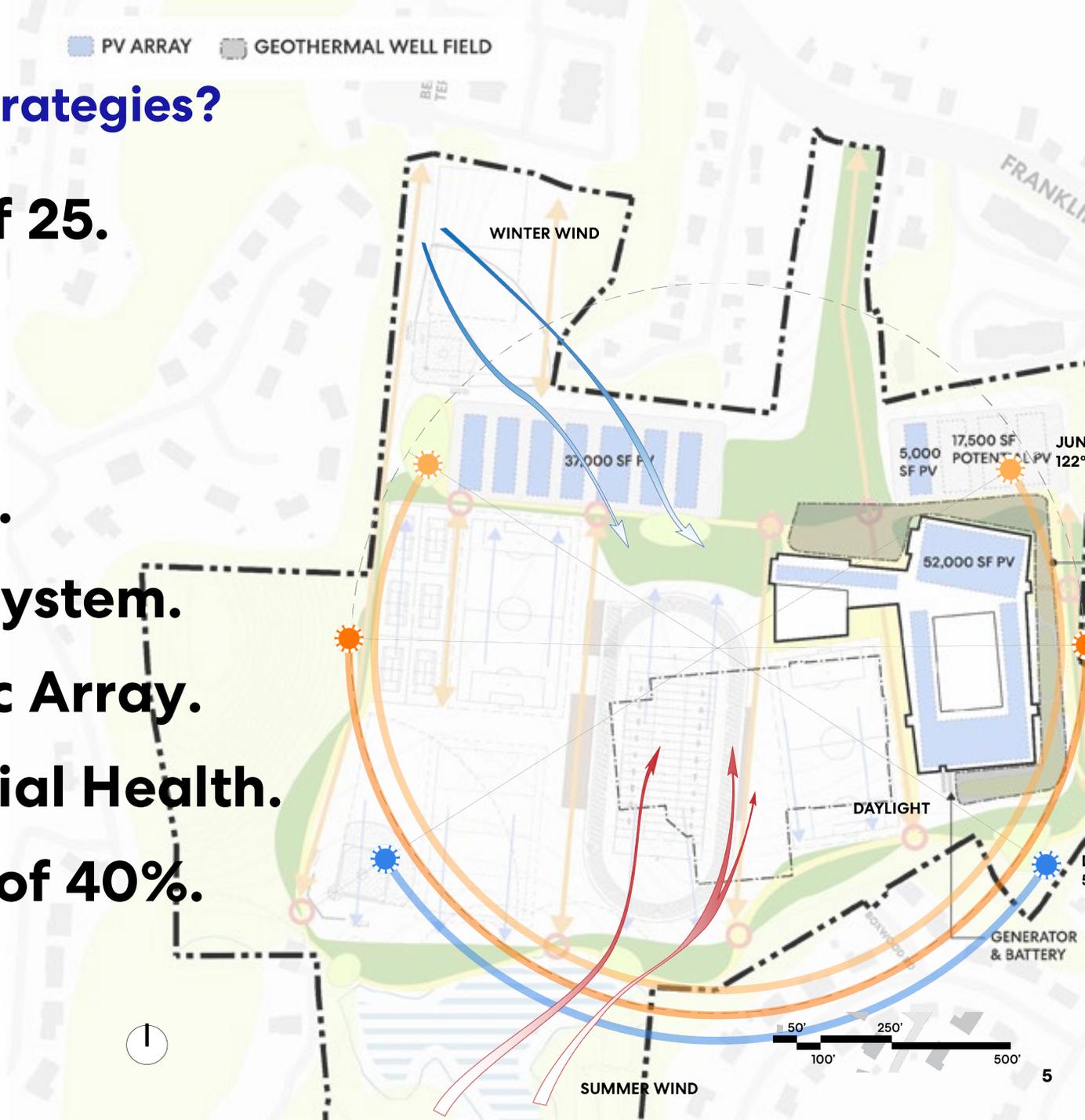
What will the New Stoneham High School Provide?

- **A healthy, safe, code compliant new facility.**
- **Flexible 21st Century Educational Environment.**
- **Interdisciplinary/ Project Based Learning Spaces.**
- **Outdoor spaces for education, gathering & athletics.**
- **Safe Pre-K environment.**
- **District offices at the High School.**
- **Mitigate Traffic on surrounding areas.**
- **Energy Efficient and Net Zero Ready.**

What are the Sustainable Design Strategies?

- Zero Net Energy Goal-(EUI) of 25.
- No Fossil Fuels.
- All Electric Building.
- Window to Wall Ratio of 28%.
- Geothermal Heat Exchange System.
- Planning for PPA Photovoltaic Array.
- Focus on Low Carbon / Material Health.
- Water-Use Reduction Target of 40%.

PV ARRAY GEOTHERMAL WELL FIELD

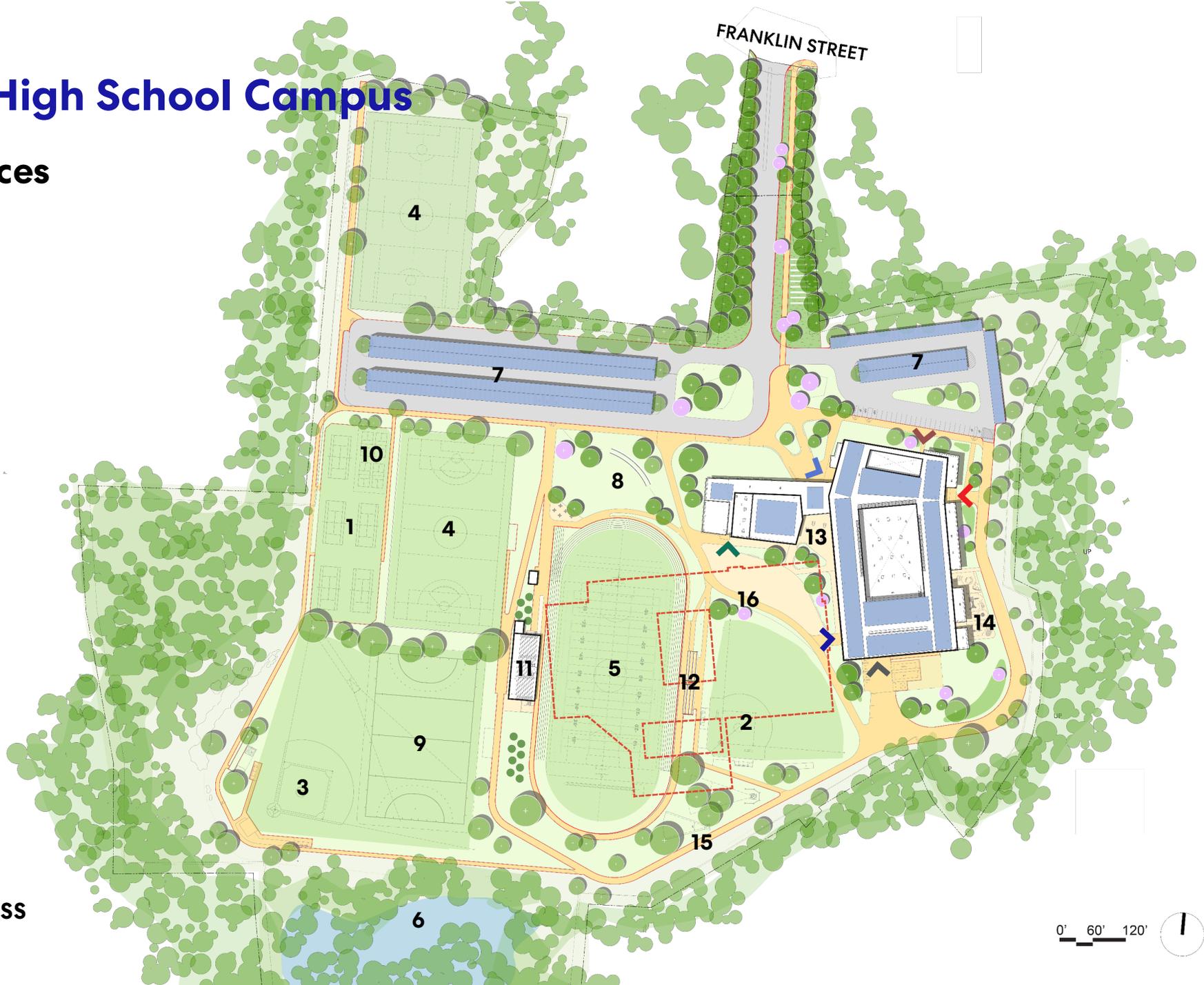


The New Stoneham High School Campus

- Outdoor Learning Spaces
- Community Uses
- Athletic Fields

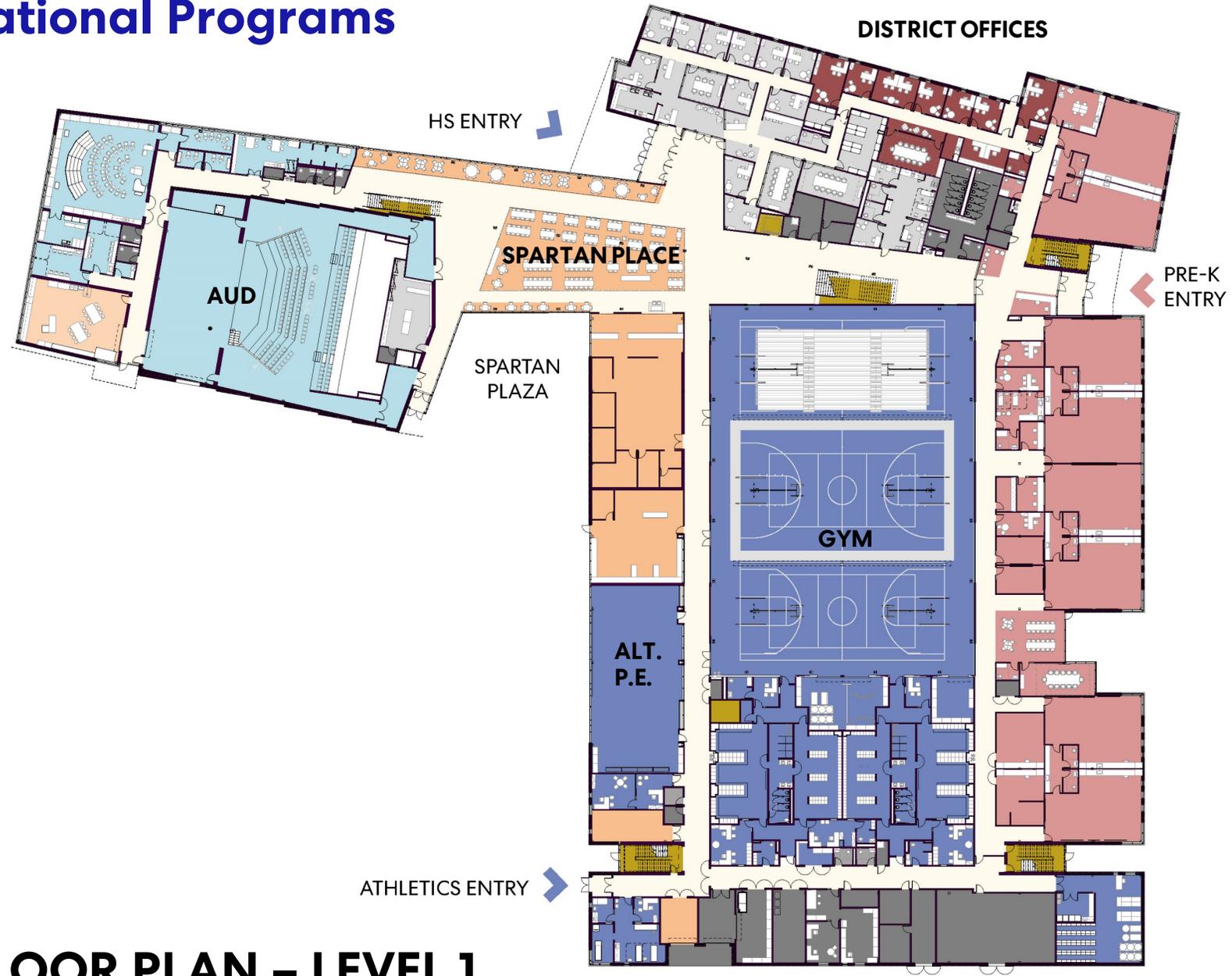
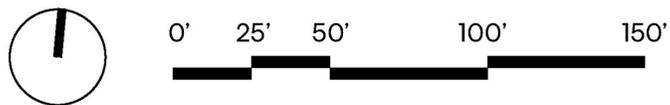
- 1 – TENNIS
- 2 – SOFTBALL
- 3 – BASEBALL
- 4 – SOCCER
- 5 – SPARTAN STADIUM
- 6 – WETLAND
- 7 – PARKING
- 8 – AMPHITHEATER
- 9 – FIELD HOCKEY
- 10 – PICKLEBALL
- 11 – HOME BLEACHERS
- 12 – VISITOR BLEACHERS
- 13 – SPARTAN PLAZA
- 14 – PRE-K PLAY
- 15 – LANDSCAPED PATH
- 16 – OUTDOOR CLASSROOM
- PV ARRAY
- EXISTING HIGH SCHOOL

- HS ENTRY
- ATHLETICS ENTRY
- PRE-K ENTRY
- AUD. STAGE ACCESS
- DIST. OFF. ENTRY
- LOADING DOCK



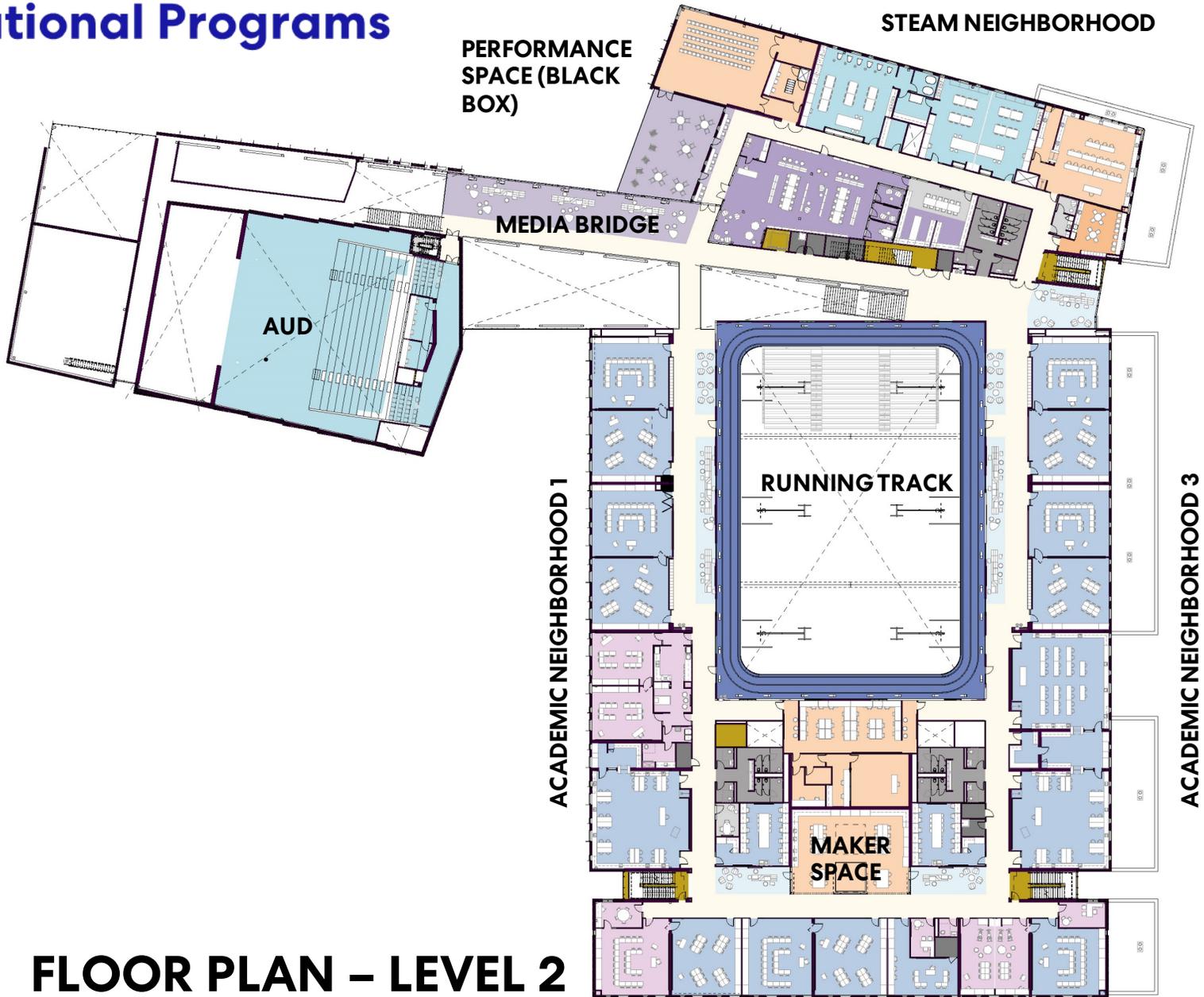
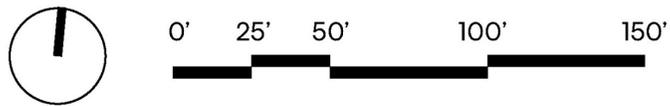
Stoneham High School Educational Programs

- ADMINISTRATION, GUIDANCE & MEDICAL SUITE
- DISTRICT OFFICES
- PRE-K
- HEALTH & PHYSICAL EDUCATION (P.E.)
- DINING & FOOD SERVICE
- AUDITORIUM, DRAMA & MUSIC
- VOCATIONAL & TECHNOLOGY (PATHWAYS)
- CORE ACADEMICS
- BREAK-OUT / COLLABORATION
- SPECIAL EDUCATION
- MEDIA CENTER
- VERTICAL CIRCULATION
- RESTROOMS
- CUSTODIAL & MECHANICAL



Stoneham High School Educational Programs

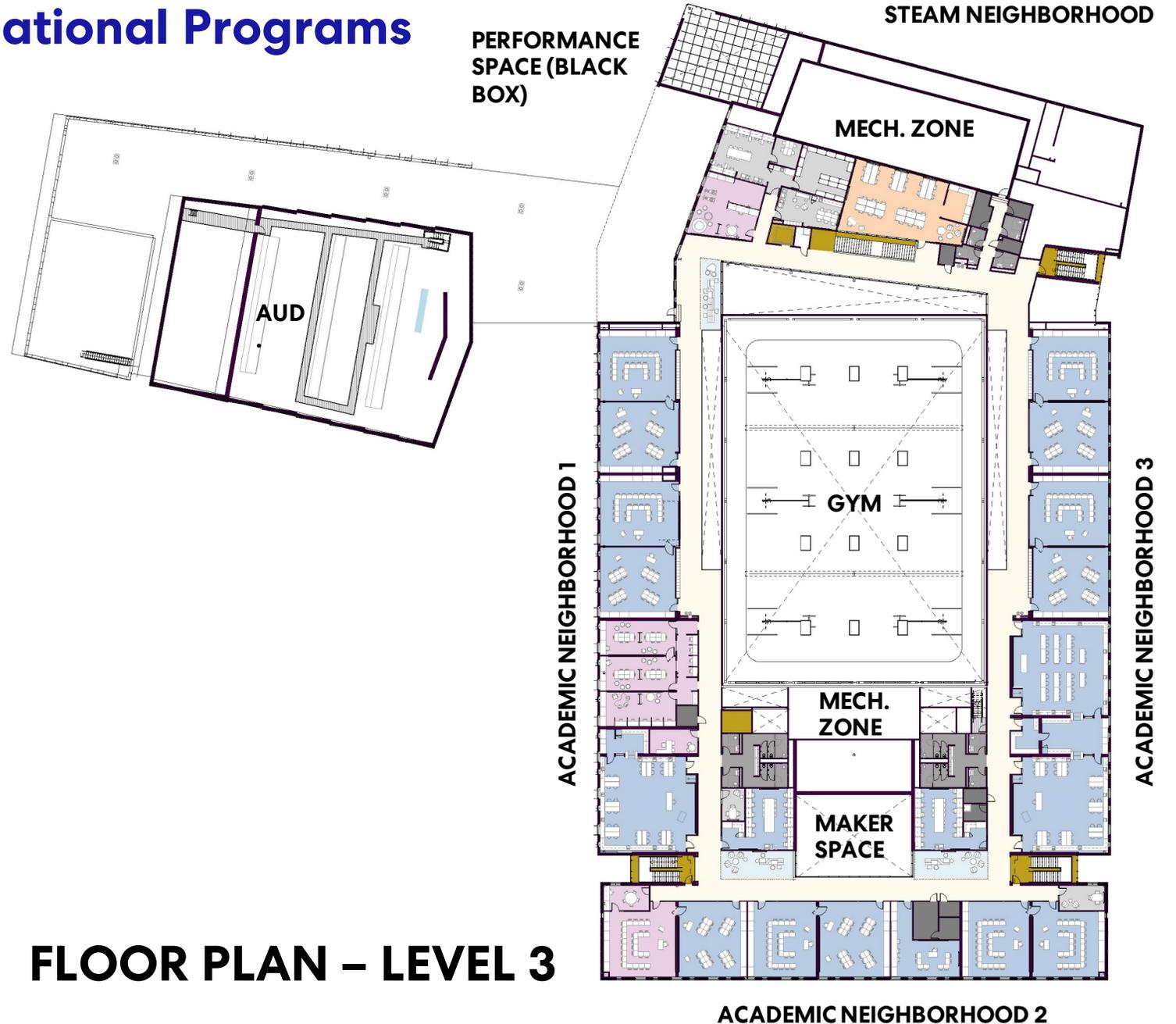
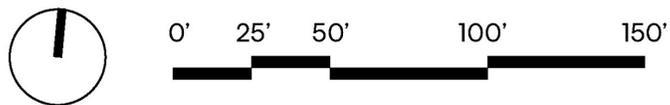
- ADMINISTRATION, GUIDANCE & MEDICAL SUITE
- DISTRICT OFFICES
- PRE-K
- HEALTH & PHYSICAL EDUCATION (P.E.)
- DINING & FOOD SERVICE
- AUDITORIUM, DRAMA & MUSIC
- VOCATIONAL & TECHNOLOGY (PATHWAYS)
- CORE ACADEMICS
- BREAK-OUT / COLLABORATION
- SPECIAL EDUCATION
- MEDIA CENTER
- VERTICAL CIRCULATION
- RESTROOMS
- CUSTODIAL & MECHANICAL



FLOOR PLAN - LEVEL 2

Stoneham High School Educational Programs

- ADMINISTRATION, GUIDANCE & MEDICAL SUITE
- DISTRICT OFFICES
- PRE-K
- HEALTH & PHYSICAL EDUCATION (P.E.)
- DINING & FOOD SERVICE
- AUDITORIUM, DRAMA & MUSIC
- VOCATIONAL & TECHNOLOGY (PATHWAYS)
- CORE ACADEMICS
- BREAK-OUT / COLLABORATION
- SPECIAL EDUCATION
- MEDIA CENTER
- VERTICAL CIRCULATION
- RESTROOMS
- CUSTODIAL & MECHANICAL



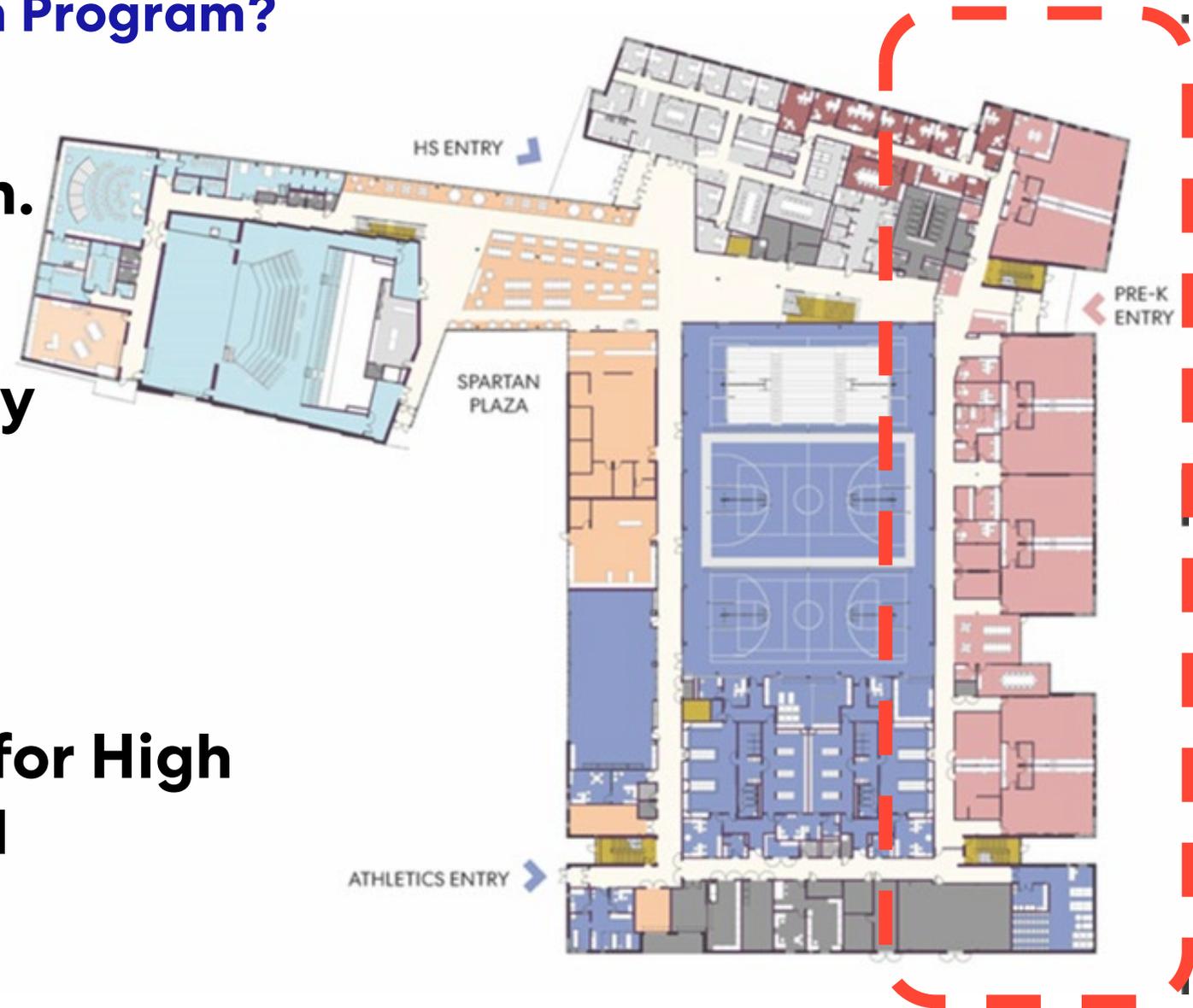
FLOOR PLAN – LEVEL 3

What spaces will support the Arts and Performing Arts Program?

- **Video Production Suite & Maker Space.**
- **Arts & STEM Neighborhood bringing disciplines together.**
- **Media Center, Media Terrace, Visual Arts, History Lab.**
- **Interdisciplinary Performance Room.**
- **Bio-medical, & Computer Science.**
- **Auditorium with Orchestra Pit- accessed from Spartan Place.**
- **Band/Chorus Room/ Scene Shop with access to the stage.**

Why Include the Pre-Kindergarten Program?

- **Consolidated Pre-K program.**
- **Planned for future growth.**
- **Frees up space at Elementary Schools.**
- **Allows expansion of K-4 population.**
- **Pre-K Classrooms designed for High School Classrooms if needed**



What are the benefits of Synthetic Turf?

On-campus fields reduced from 7 to 5 in new site plan

SYNTHETIC TURF

GRASS

Usability

3 plays/day

1 play/day

Year-round use

6-7 months/year

Unaffected by weather

Rain cancellations

Up to 800 plays/year/field

Up to 180 plays/year/field

HS Use = 500 Plays/Year/Field

Equal on-campus playtime for all sports

Equal access to new athletic building

Reduce after school traffic

Avoid late evening practices

What are the benefits of Synthetic Turf?

2-3 grass fields required to support same high school use of 1 turf field ($500/180 = 2.78$)

SYNTHETIC TURF

Safety

Uniform performance throughout

GRASS

Variable conditions, wet,
hard bare ground

Environmental

Organic infill

No fertilizer, pesticide

No crumb rubber

No irrigation use

No mowing

What are the financial benefits of 3 Synthetic Turf?

SYNTHETIC TURF

GRASS

Construction cost

~\$900,000/field

~\$400,000/field

x2.78 field useability multiplier
\$1.1M/field for equal usability

Maintenance

Up to \$20,000/field/year

\$31,000/field/year

Transportation

None

Drive to other fields

Lease/rent space

None

Unknown

Project Cost & Schedule

Town Meeting

What is Stoneham's Share?

PROJECT COST

\$189.6M

APPROXIMATE MSBA GRANT

\$ 49.0M

APPROXIMATE COST TO STONEHAM

\$140.6M

Per MSBA Board of Director's approval of August 25, 2021

What is the Preliminary Tax Impact Analysis?

Stoneham Share

\$140.6M

**Estimated Cost/Year
Per \$100,000 Valuation**

\$144 per \$100,000

**Estimated Average Cost/Year
Increase for the Average
Residential Taxpayer**

\$832

Based on average home value of \$577,700, 30-year bond at 3.0%

Finance terms are estimated and subject to change.

Project Schedule

Detailed Design Start
November 2021

Construction Start
Summer 2022

School Building Completion
Summer 2024

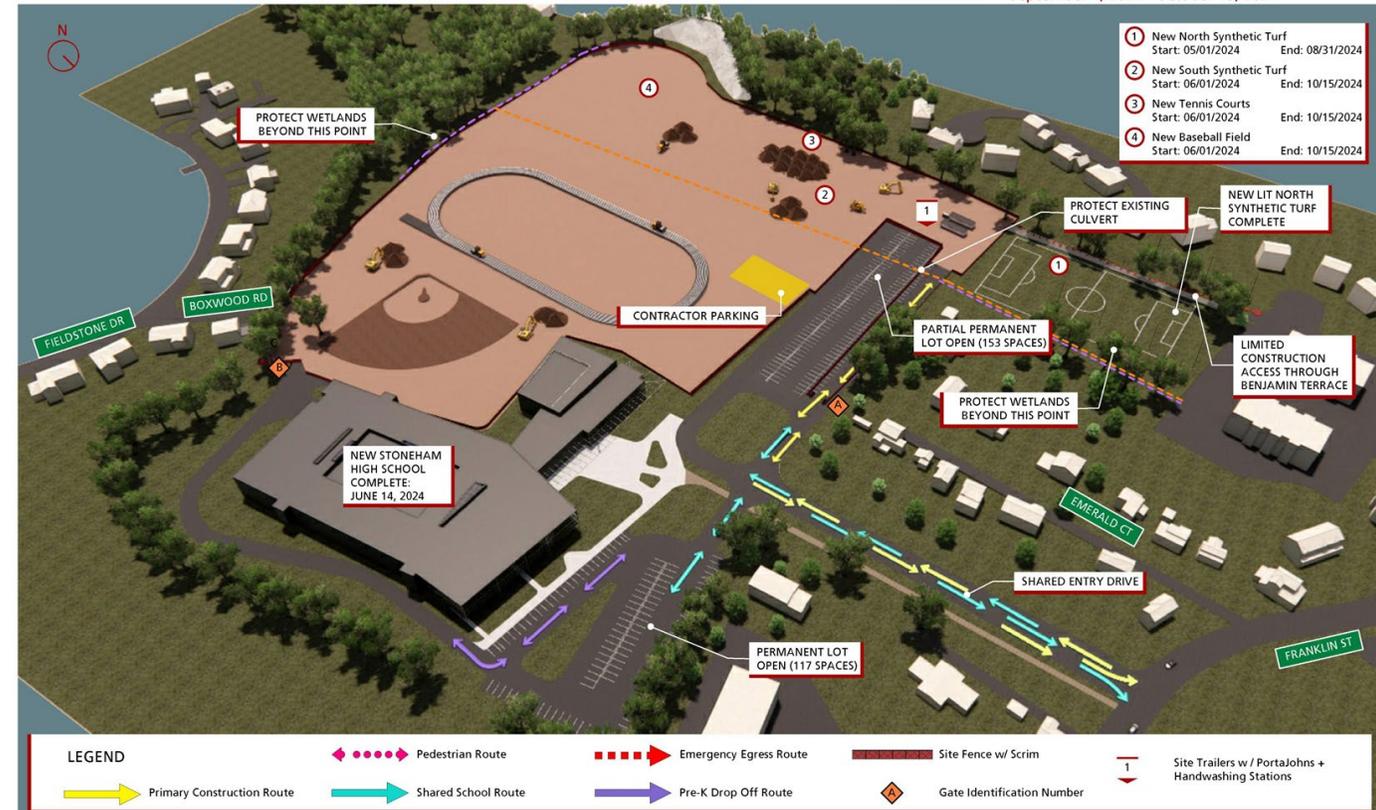
Demolition / Playfields / Parking
Late 2024 / Spring 2025

Stoneham High School



Field Sequence 3

September 1, 2024 - October 15, 2024



November 2, 2021 Ballot Question

Shall the Town of Stoneham be allowed to exempt from the provisions of Proposition two-and-one-half, so called, the amounts required to pay for the bonds issued in order to pay the costs of planning, designing, constructing, originally equipping and furnishing the New Stoneham High School located at 149 Franklin Street, Stoneham, Massachusetts?

Yes _____

No _____

Majority Vote Required to pass the ballot question

What if the Project is NOT approved?

- **Upgrades for codes repairs only/ \$122 Million.**
- **Loss of Accreditation/ on facility warning.**
- **Reapply to MSBA for reimbursement program.**
- **Project cost escalation if not approved now.**
- **No District Offices if repairs only.**
- **No 21century educational upgrades.**
- **No consolidated Pre-K Program.**
- **No Zero Net Energy Design.**
- **No upgrades to playfields, roadways, traffic upgrades or parking.**

Interior View/ Spartan Place



Exterior View / Main Entry



STONEHAM HIGH SCHOOL



Town Meeting