

SMMA

Achieving Net Zero in Design and Construction

Net Zero at Lincoln School (PK-8)

12.2.2021



Lincoln School- Ballfield Road Campus



*Brooks School
Grades 5-8*

*Smith School
Grades K-4*

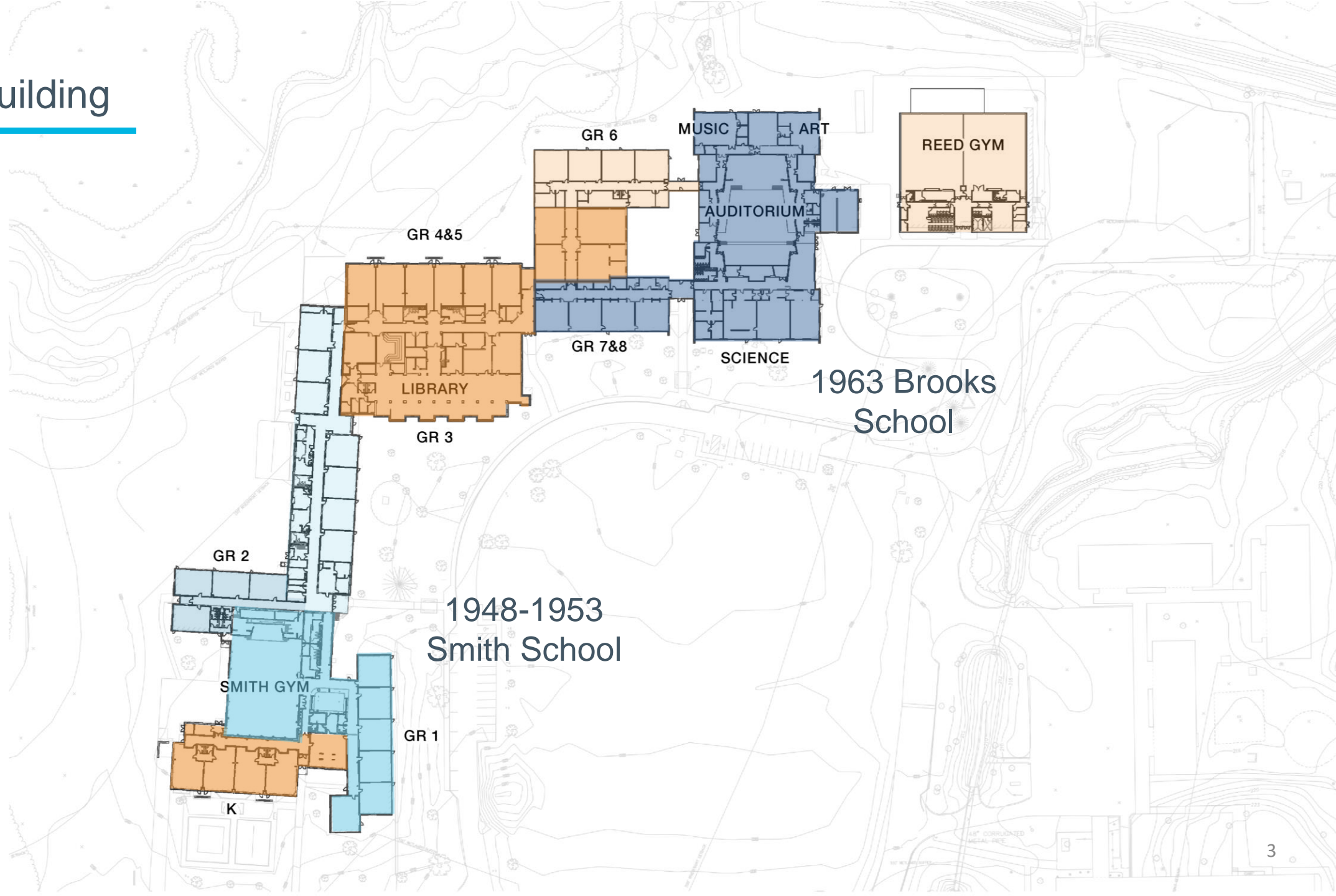
6 Ballfield Rd,
Lincoln, MA 01773



*Pre-K
School Administration*

Existing Building

- 1948
- 1953
- 1955
- 1963
- 1970
- 1994

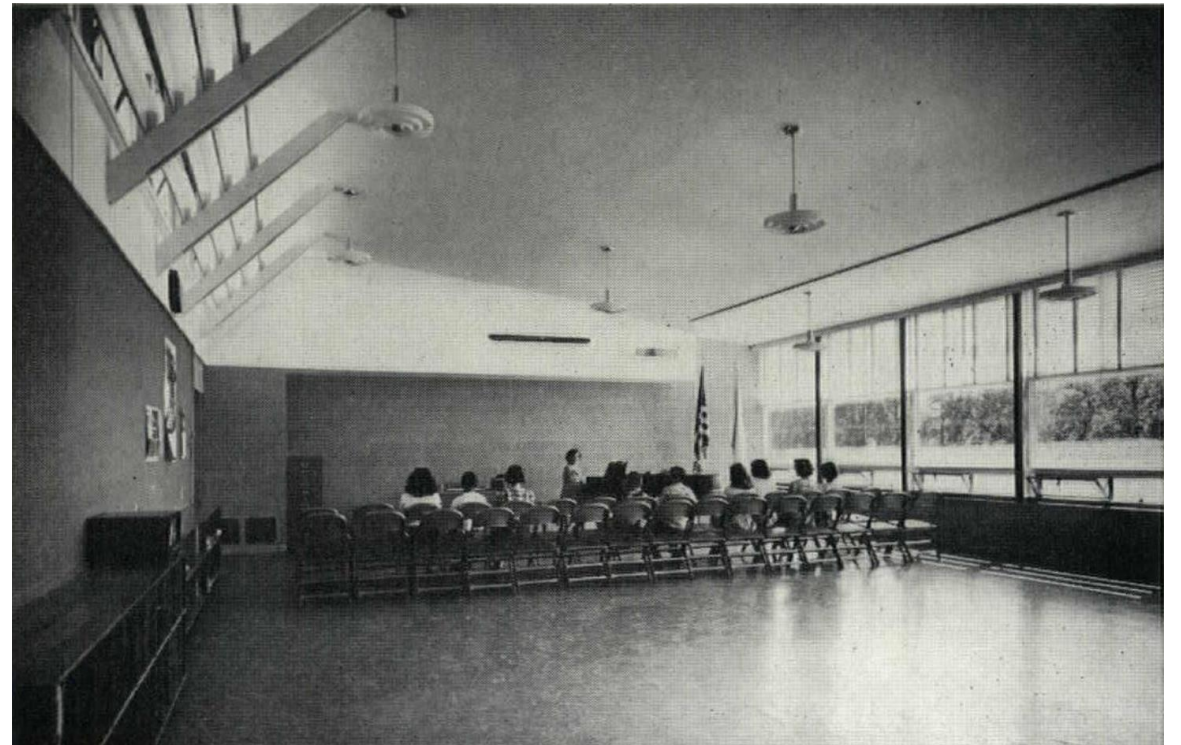
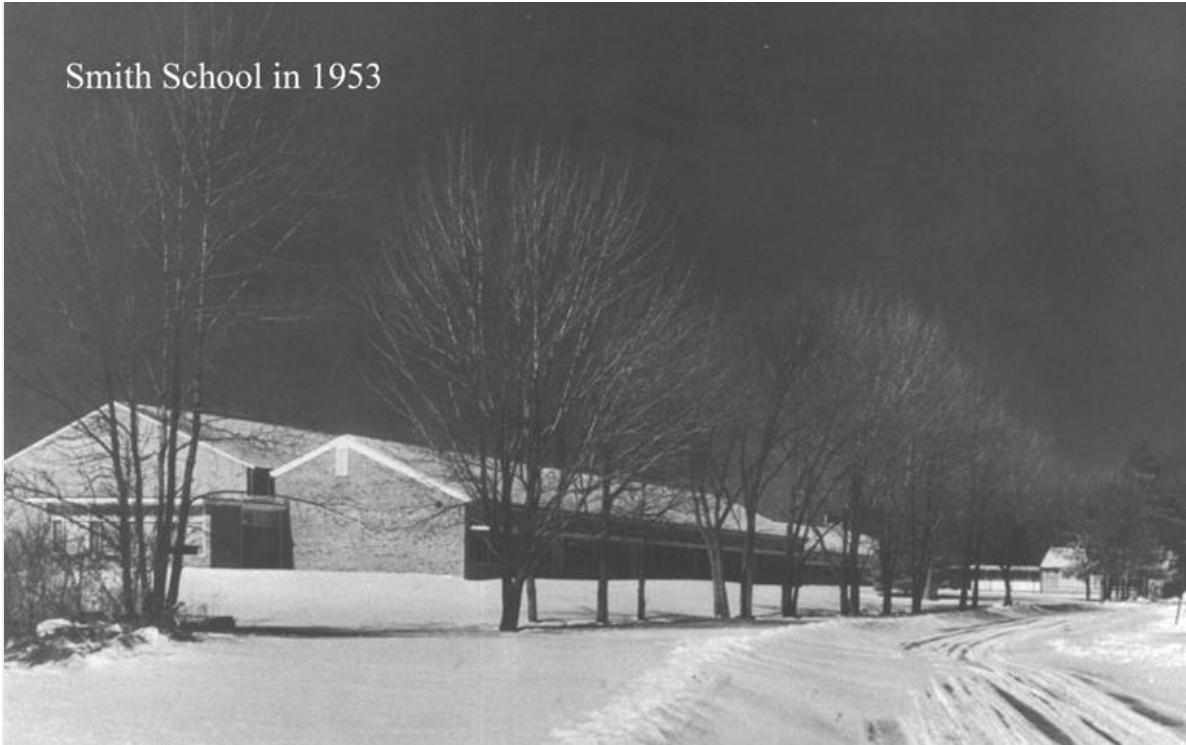


1948-1953
Smith School

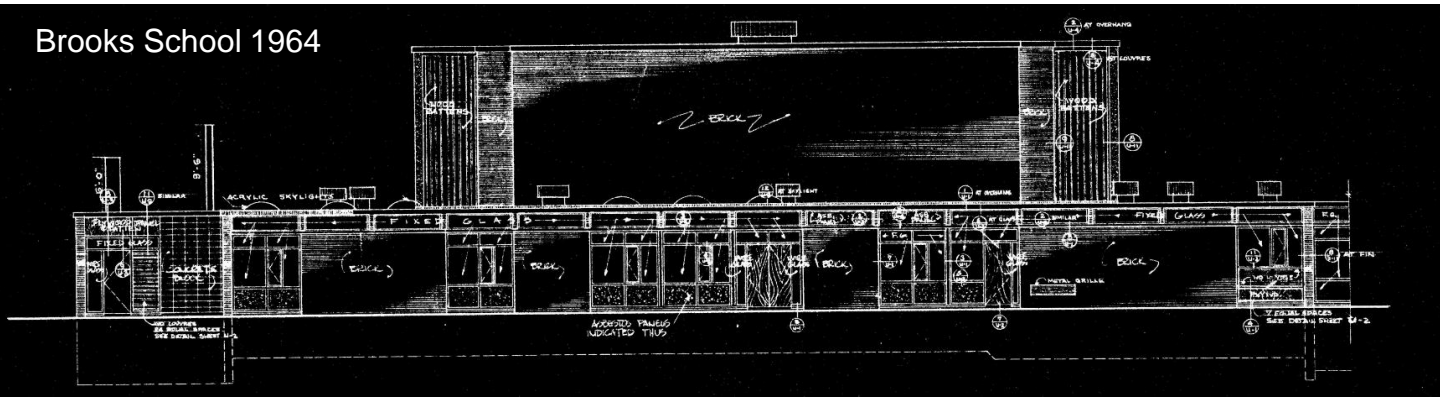
1963 Brooks
School

Honoring our History, Building our Future

Smith School in 1953



Brooks School 1964



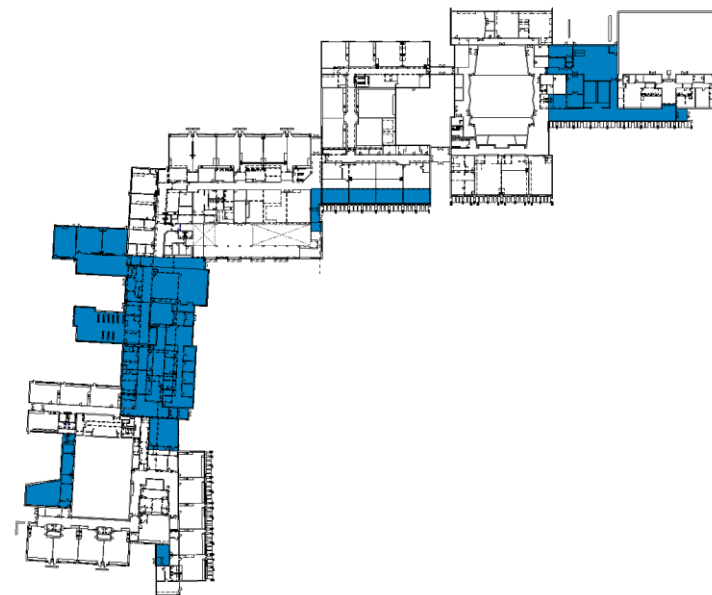
Proposed Site Plan

Brooks School

Smith School



SMMA



New vs. Reno

Total New Project SF= 165,000 SF



Proposed Site Plan

Brooks School

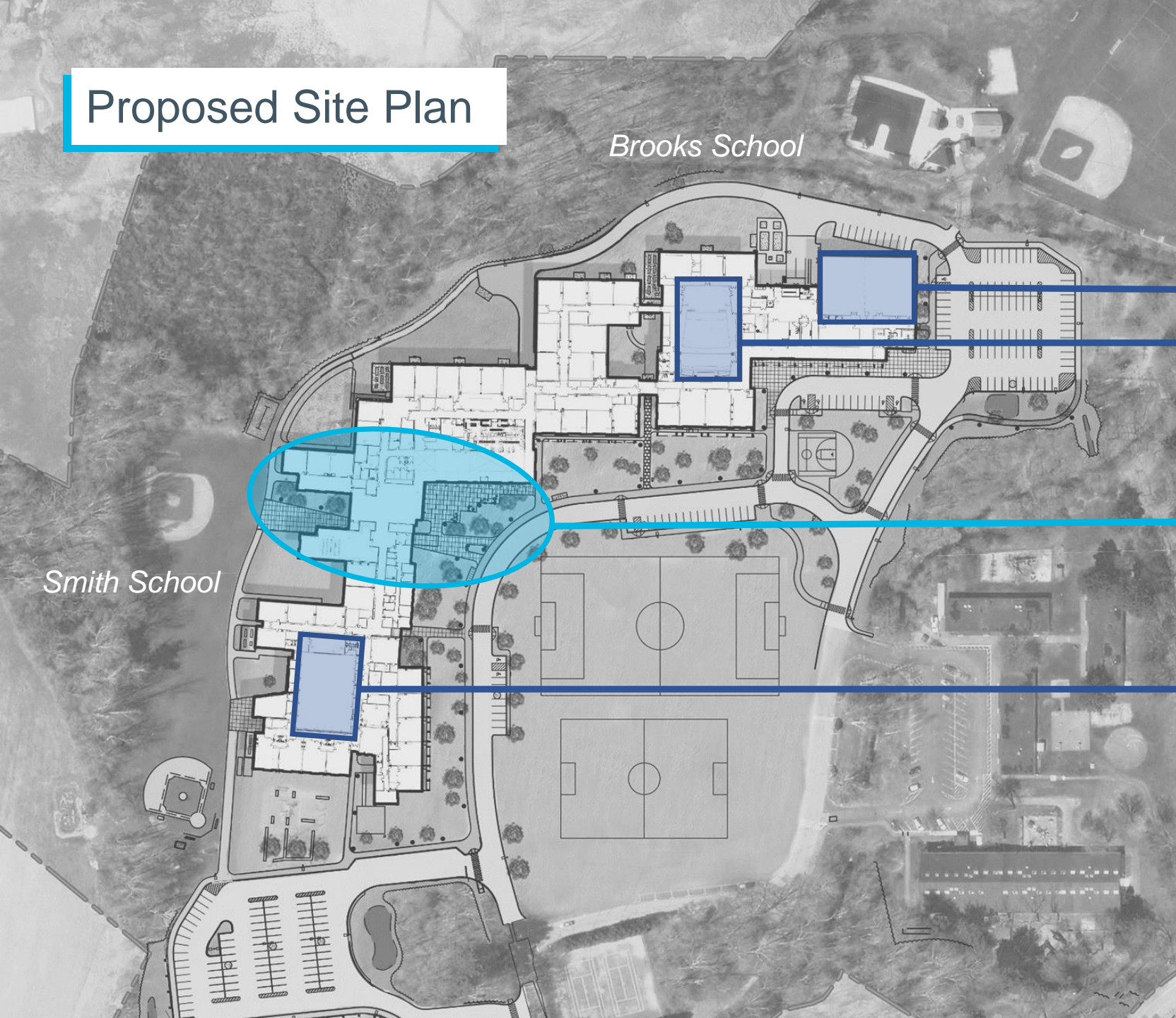
Smith School

Existing REED Gymnasium
Existing Donaldson Auditorium

Main Entrance
Media Center
Learning Commons
Dining Commons

Existing Smith Gymnasium

***Embodied Carbon** refers to the greenhouse gas emissions arising from the manufacturing, transportation, installation, maintenance, and disposal of building materials*



Predicted EUI

23.9 kBtu/sf

Wall R-Value = **34**

Roof R-Value = **60**

Windows/Curtain wall R-Value = **5**

Window/Wall Ratio = **23%**



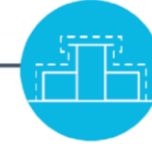
Energy Recovery Units
All Electric VRF System



Occupants-Plug Load Controls



PV Panels



Super Insulated Envelope



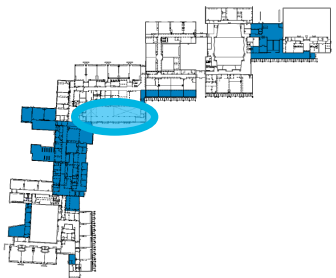
Triple Pane Fiberglass Windows



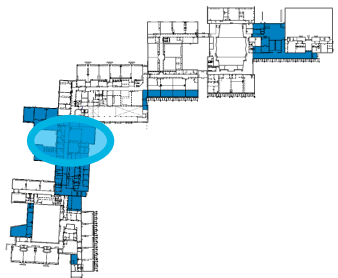
Transformation of Media Center into Dining Commons



Original Media Center



New Learning Commons and Exterior Green Space



Construction



Honoring our History, Building our Future

August 2021

