

IMAGINING POSSIBILITIES

FOR TRUMBULL'S SCHOOL FACILITIES

TRUMBULL, CT

BOE Progress Update

October 25, 2022



- Team & Schedule
- Work Completed So Far
- What Lies Ahead
- Community Engagement & Key dates
- Discussion / Q&A



UTILIZATION & PROGRAMMING



EDWARD WIDOFSKY AIA, LEED AP BD+C

Project Manager Tecton

OVERSIGHT & DAY-TO-DAY CONTACT



JEFF WYSZYNSKI AIA

Principal-in-Charge Tecton

COMMUNITY ENGAGEMENT



ANTONIA CIAVERELLA EDAC, LEED AP BD+C, WELL AP, FITWEL

Architectural Designer
Tecton

CONSULTANT EXPERTISE



DEREK
BRIDE
LEED AP BD+C

MEP Engineering Principal, CES

BUILDING CONDITION ASESSMENT



ALISON FROST

Project Architect
Tecton

CONSULTING ENGINEERING SERVICES

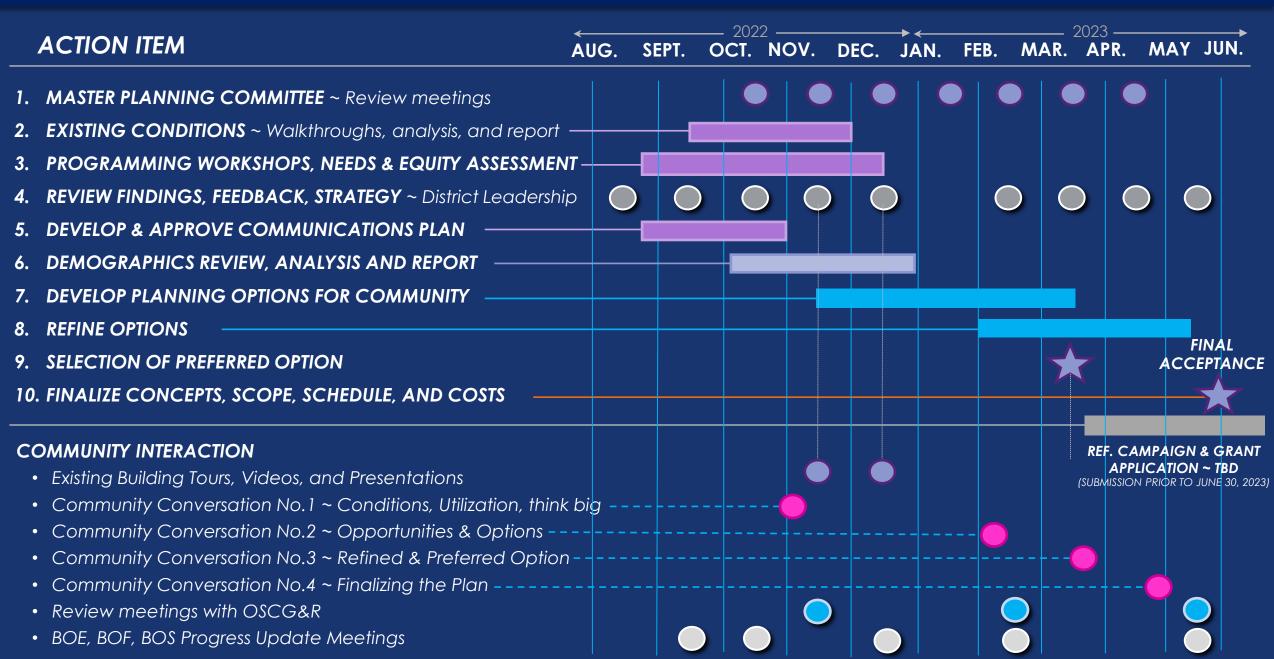
MEP Engineering

MCKIBBEN DEMOGRAPHIC RESEARCH

Enrollment Projections & Demographics Study

MILESTONE SCHEDULE



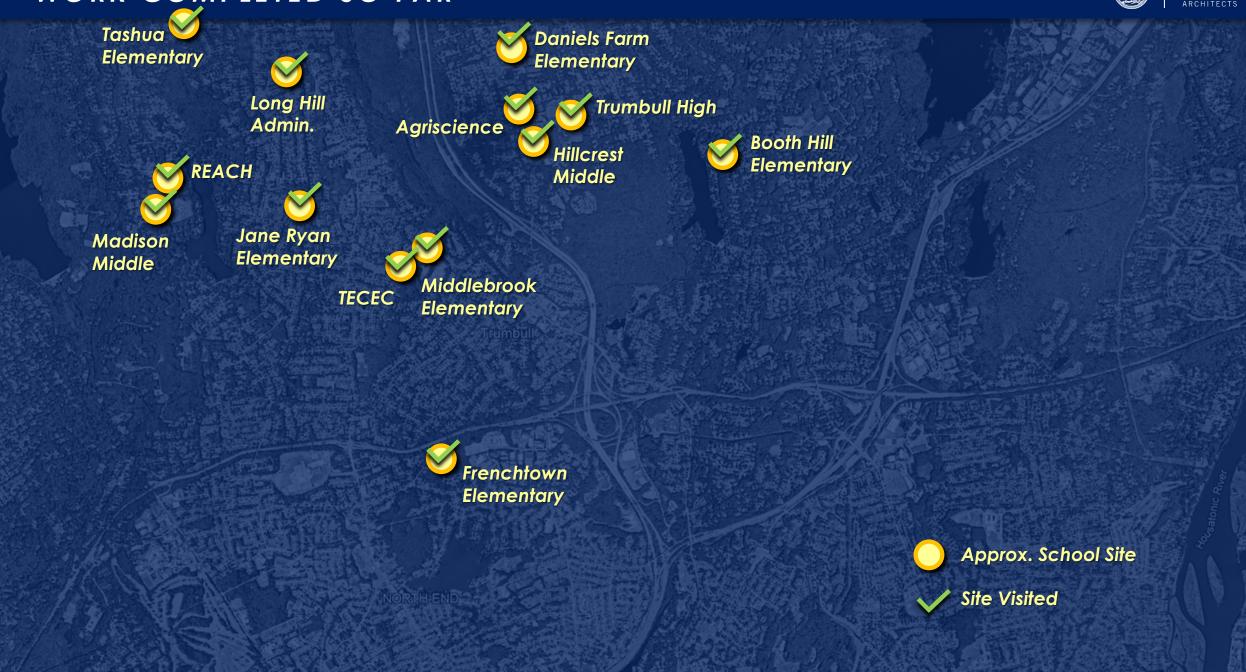




WORK COMPLETED SO FAR







Building Walkthroughs & Initial Programming Discussions



- 1. Booth Hill Elementary School ~ 9/13/2022
- 2. Daniels Farm Elementary School ~ 9/13/2022
- 3. TECEC (Trumbull Early Childhood Education Center) ~ 9/13/2022
- 4. Middlebrook Elementary School ~ 9/14/2022
- 5. Jane Ryan Elementary School ~ 9/14/2022
- 6. Hillcrest Middle School ~ 9/16/2022
- 7. Madison Middle School ~ 9/16/2022
- **8. REACH** ~ 9/22/2022
- 9. Agriscience High School ~ 9/22/2022
- 10. Long Hill Administration Building ~ 9/22/2022
- **11. Trumbull High School** ~ 9/23/2022
- 12. Tashua Elementary School ~ 9/30/2022
- 13. Frenchtown Elementary School ~ 9/30/2022

Walkthroughs completed for all 13 buildings, approximately 1,152,245 sf



Conditions Analysis



Bui	ldina	Summar	v Table

Building Name		GSF	% of total town bldgs	Orig. Const.	Age
PK	Trumbull Early Childhood	24,044	2.1%	2005	17
K-5	Booth Hill Elementary	54,161	4.7%	1955	67
	Daniels Farm Elementary	65,091	5.6%	1962	60
	Frenchtown Elementary	94,305	8.2%	2003	19
	Jane Ryan Elementary	56,895	4.9%	1955	67
	Middlebrook Elementary	75,811	6.6%	1953	69
	Tashua Elementary	55,193	4.8%	1965	57
6-8	Hillcrest Middle	141,000	12.2%	1967	55
	Madison Middle School	154,970	13.4%	1960	62
9-12	Regional Agriscience Center	35,000	3.0%	2001	21
	Trumbull High School	367,000	31.9%	1971	51
6-8/9-12	REACH	8,700	0.8%	1970	52
Admin	Long Hill Administration	20,075	1 7%	1920	102
	Subtotal 1,152,245 Average Age		54		



Conditions Analysis

Areas of Study

- 1. **Site** (Pavement, traffic circulation, signs, parking, curbs, sidewalks)
- 2. Architectural Exterior (Building envelope, roofs, windows, doors, masonry, trim, downspouts)
- 3. Architectural Interior (flooring, ceiling, lighting, wall finishes, doors, frames)
- 4. Code ~ Accessibility / Life Safety (accessible entrances, lifts/ramps, floor clearance, sprinklers, fire alarm)
- **5. Building Systems** (plumbing, heating, ventilation & air conditioning by S/P, lighting, electrical systems, technology, fire protection, fire alarms)



Broad Summary of Conditions Analysis



- Most buildings have been well maintained, yet no building has received comprehensive, like new, renovations.
- Reuse, modification, and past adaptations affect educational use and operational efficiency.
- 3. In most cases, **poor definition of the school/site boundaries** lead to some concern(s) related to traffic flow, safety and security.
- 4. For buildings constructed prior to 2000s, majority of building systems and finishes are **at or past their useful life**.
- 5. Poor comfort/temperature control. IAQ (Indoor Air Quality) does not meet current code ~ commonly voiced concern throughout (S/P conducting report).
- **6. Accessibility concerns throughout** building/site, few and uneven attempts at compliance.

Conditions Analysis ~ Common Findings

Site ~ Site traffic, parking and perimeter security concerns for site (pedestrian and vehicular safety), play areas exposed at times, limited universal accessibility (parking, sidewalks, and play), poor or no definition of school boundary, some surfaces past their useful life (parking, sidewalks, and play).

Architectural Exterior ~ Most buildings contain poor insulating values, (limited wall insulation ~ single wythe), some poorly functioning and/or single pane windows, some roofs past their useful life, some instances persistent water infiltration/leaks at windows, doors, roofs accelerated deterioration.

Architectural Interior ~ For buildings constructed prior to 2000, majority of finishes past useful life (millwork, floors, doors, ceilings), lockers, toilets all poor.

Code/Accessibility/Life Safety ~ Several compliance issues at toilet rooms, floor clearances/reach at entranceways, sinks, and millwork, stage(s), etc.

Building Systems ~ For buildings constructed prior to 2000 ~ majority of plumbing systems and fixtures are fair condition but past their useful life, electrical lighting and power distribution end/past useful life.



Conditions Analysis ~ Specific Examples





Booth Hill Elementary School ~ Former closets now intervention rooms, poor site circulation (bus/parent), poor climate control, poor visibility from admin.



Middlebrook Elementary School ~ site circulation concerns (pedestrian, bus, parent), poor lighting levels & climate control, desire for dedicated core space (gym, café, presentation), specialized ed.



Daniels Farm Elementary School ~ Sister school to Booth Hill, similar challenges, roof and envelope water infiltration has led to accelerated deterioration of envelope.



Jane Ryan Elementary School ~ Main entry to school not accessible, capacity concerns ~ loss of music/maker space for gen classroom, accessibility compliance issues throughout.



TECEC ~ Currently share space with Middlebrook E.S. ~ operational and logistical challenges, play areas in need of updating, climate control concerns, requested more program space.



Hillcrest Middle School ~ Lack of required functioning/proper program space throughout (S.E., labs, admin., etc.), pool space not used, travel distance challenging, poor climate control, poor site boundary.

Conditions Analysis ~ Specific Examples





Madison Middle School ~ Poor climate control due to building envelope, good layout but program space needs updating, media center poor location, more dedicated S.E. space.



Long Hill Administration ~ Generally in poor condition, building reinvented several times, multiple different vintages of construction & building systems, satisfies program need but limited accessibility throughout, poor public entry



REACH ~ Overall poor condition of building, building envelope leaks (water/air), limited accessibility compliance, min. access to natural daylight, need more dedicated program space.



Tashua Elementary School ~ Obsolete modulars should be removed (safety hazard), building well maintained but overall systems/finishes past useful life, toilets rooms poor and too few, access to more nat. daylight.



Agriscience ~ Greenhouse requires update/replacement, persistent roof leaks and moisture infiltration causing accelerated deterioration, renovate obsolete program space.



Frenchtown Elementary School ~ Ingress/Egress to site poor & congested at times, site play/paved areas have accelerated deterioration, some building envelope concerns with moisture infiltration, S.E. program space need.

Conditions Analysis ~ Specific Examples





Trumbull High School ~ Revisit and identify portions of work that were not completed during last renovation (doors, terrazzo repairs, portables, etc.), investigate optimizing media center area of school, coordinate efforts with planned wellness center/weight room expansion, optimize underutilized areas near and adjacent to cafeteria, reinvent dedicated rooms for obsolete programs).

Programmatic Discussions

Topics and Review included

 Interviews of principals, facilities, and district leadership, often with input collected from teachers.

2. Questions Included...

- a. What spaces get the most use? The least?
- b. What is missing?
- c. What affects quality of education on a daily basis?
- d. What works well, what doesn't?
- e. How can this facility better support the staff and/or students?
- f. What limits/reduces educational time? Are there adjacency relationships that should be improved (locations of key programmatic functions)?
- g. Biggest day to day challenge?
- h. How can this facility better support the students?
- i. What is fundamental to the student experience that is currently working or not working with the existing facility?



Programmatic Discussions~ Common Findings

Tec

- Educators clearly making the best use of their facilities, reimagining, re-purposing and utilizing all practical areas.
- 2. The **evolution of small group instruction and specialized education** require additional dedicated and appropriately appointed space.
- 3. Older buildings present limited flexibility to create adaptative flexible space for 21st Century learning (small group, project-based learning, professional development/prep space, learning lab).
- 4. Consistent **concerns about capacity of the buildings** ~ Ex. bubble years with enrollment forcing
 "art on a cart" or sacrifice of specialty programs.









CLIMATE CONTROL

ENHANCE OUTDOOR LEARNING

PRIVACY & DEDICATED SPECIAL EDUCATION SPACE!

DEDICATED SPACE FOR ART, MUSIC, P.E.

HEALTH & WELLNESS FOR ALL STUDENTS

INCLUSIVE

SINGLE USER TOILETS, UNIVERSAL ACCESSIBILITY

MAINTAIN THE "NEIGHBORHOOD SCHOOL"

COMMUNITY ENGAGEMENT

ACCESS TO

NATURAL DAYLIGHT

PARTICULARLY @ ELEMENTARY

EQUITY ACROSS
THE DISTRICT
FACILITIES, PROGRAMS,

QUALITY

ENERGY EFFICIENCY

SAFETY

IMPROVE TEAM SPACE, SPACE FOR PROFESSIONAL DEVELOPMENT!

Comments from the BOE Workshop on 9/20/2022

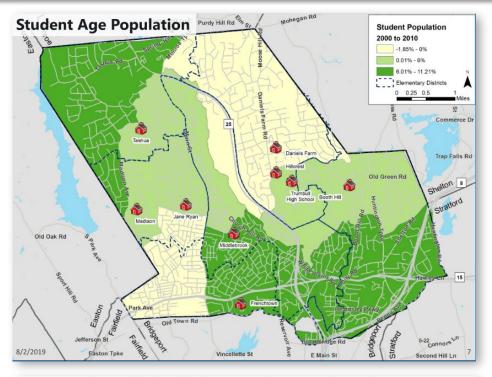


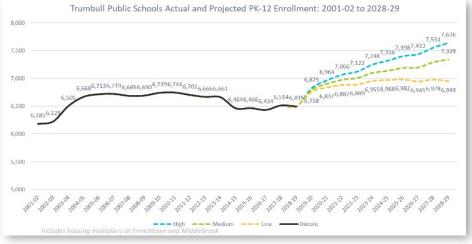
Demographic Analysis & Enrollment Projections



Areas of Study

- Validation of historical data.
- Population forecasts for the years 2025 and 2030 for the six elementary schools.
- Review historical enrollment by grade & forecasts for 2025 and 2030 by elementary area for population.
- 4. Enrollment forecasts by grade for the years 2023-2024 to 2032-2033 for all grade levels.
- Geo-code the student population to review capacity and equity of facilities across the district.





Images from SLR/Milone & MacBroom 2019 Report

Benchmarking Facilities & Costs





State Space Standards

Booth Hill Elementary Built in 1955 25% allowable area increase -22,519 sf

41% below the max. allowable for today's population!





MIDDLEBROOK SCHOOL

(K-5, 510 STUDENTS)

ANALYSIS TO INCLUDE:

- CAPACITY REVIEW
- CORE SPACE BENCHMARKING
- BUILDING EFFICIENCY
- IMPACT ON EDUCATION



proximately 630 feet!

out a 5 min. walk away from the

(or a 10-minute round trip)

Understanding the impact of your building on Education!

DRG

Group	2020 GENERAL CONST.	2020 NEW CONST.	2021 GENERAL CONST.	2021 NEW CONST.	2022 GENERAL CONST.	2022 NEW CONST.
TRUMBULL	33.57%	23.57%	34.29%	24.29%	33.57%	23.57%
BROOKFIELD	31.43	21.43	31.43	21.43	32.86	22.86
SIMSBURY	33.21	23.21	33.57	23.57	35.36	25.36
MADISON	28.21	18.21	28.21	18.21	28.21	18.21

18 BROOKFIELD 051 FAIRFIELD 052 FARMINGTON

054 GLASTONBURY 056 GRANBY 057 GREENWICH 060 GUILFORD

Group B 076 MADISON 091 NEW FAIRFIELD 097 NEWTOWN

128 SIMSBURY 144 TRUMBULL

155 WEST HARTFORD 167 WOODBRIDGE 205 DISTRICT NO. 5 215 DISTRICT NO. 15

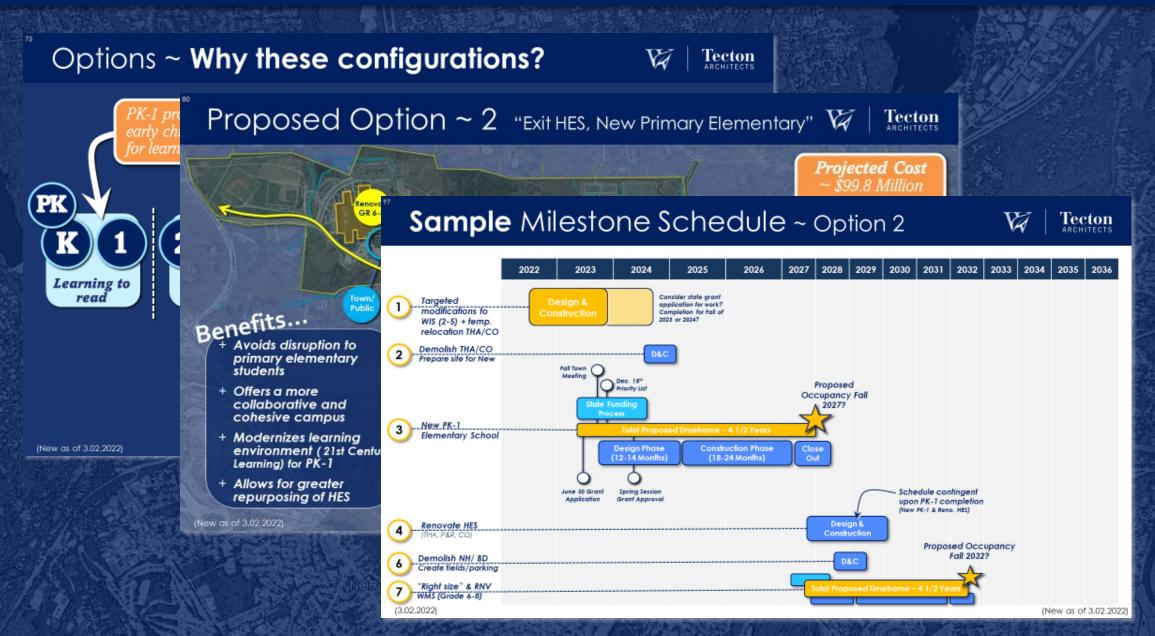
Identification of Priorities & Planning Options





Identification of Priorities & Planning Options







Importance of Community Engagement

This is a plan for your community!

Stronger together ~ Work together to identify & solve needs across entire community.....

Critical to represent needs across the district.

Meet them where they are at!

Surveys & Mailers
Student Handouts and Activities
Fliers and Public Workshops
Faculty Questionnaire
Open House(s) & Tours



Importance of Community Engagement



Community

Conversation #1

Thur. 11/3 6-8pm

Topics:Conditions, Utilization and Thinking Big!

Booth Hill School

Community
Conversation #2

Thur. 2/2 6-8pm

Topics:
Opportunities and
Options

Frenchtown School

Community
Conversation #3

Wed. 3/22 6-8pm

Topics:Refined and
Preferred Option

Madison
Middle Schoo

Community

Conversation #4

Wed. 4/26 6-8pm

Topics:
Finalizing the Plan
and Next Steps

Trumbull High School





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