

School Building
Committee Meeting
& Community Forum

COUNTRYSIDE ELEMENTARY SCHOOL

Newton, MA







MSBA Process

Module 3 Activities - Feasibility Study:

Submit Preliminary Design Program (PDP)

- Educational program and Space Summary
- Existing conditions report
- Establish design parameters
- Develop and evaluate alternates

Preferred Schematic Report (PSR)

- Summarize the process and conclusions of the Preliminary and Final Evaluation of Alternatives
- Cost comparison table
- Document District's selection and recommendation of the most cost effective and educationally appropriate preferred solution to the MSBA
- Submit Preferred Schematic Report (PSR)





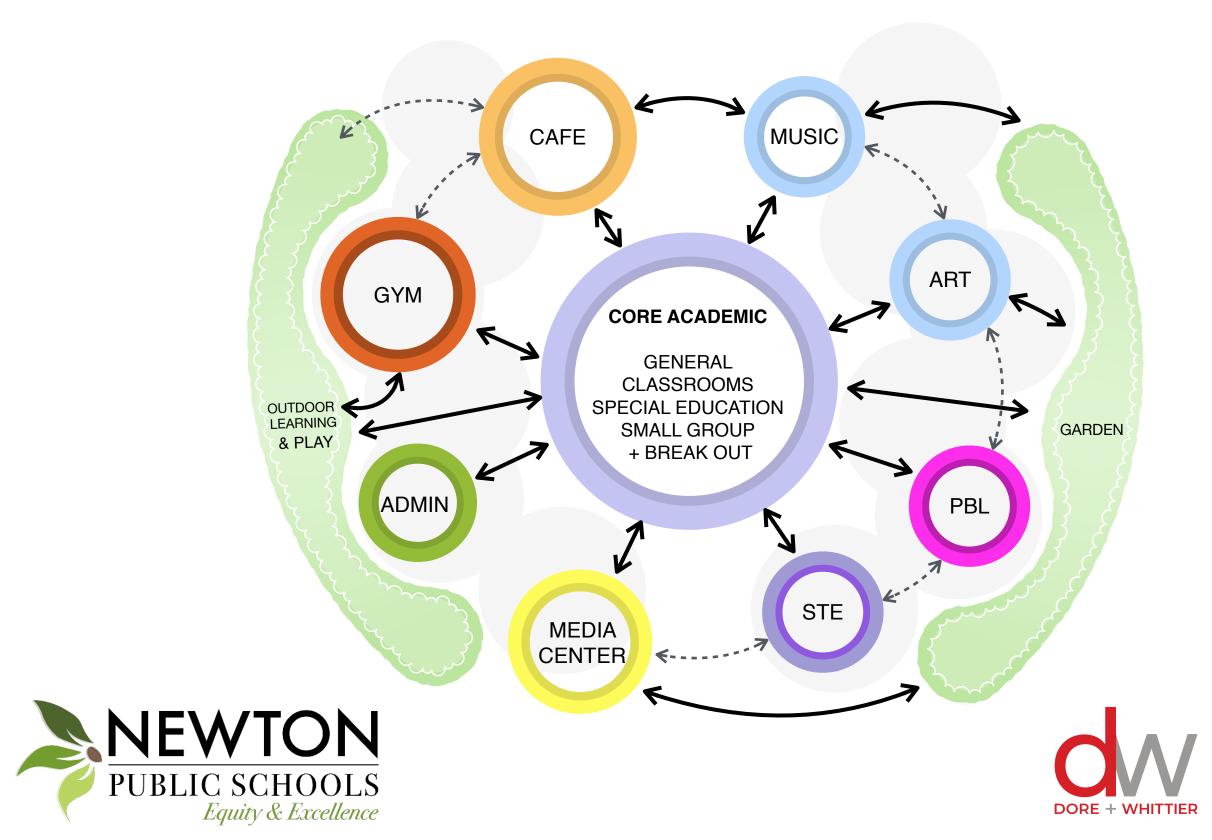




MSBA Process | Educational Program

- Identifies special education programs offered district-wide
- Identifies programs to be offered within the "new" Countryside School
- Massachusetts School Building Authority

- Identifies programmatic spatial relationships and adjacencies
- The program defines the space needs and total square footage for the project

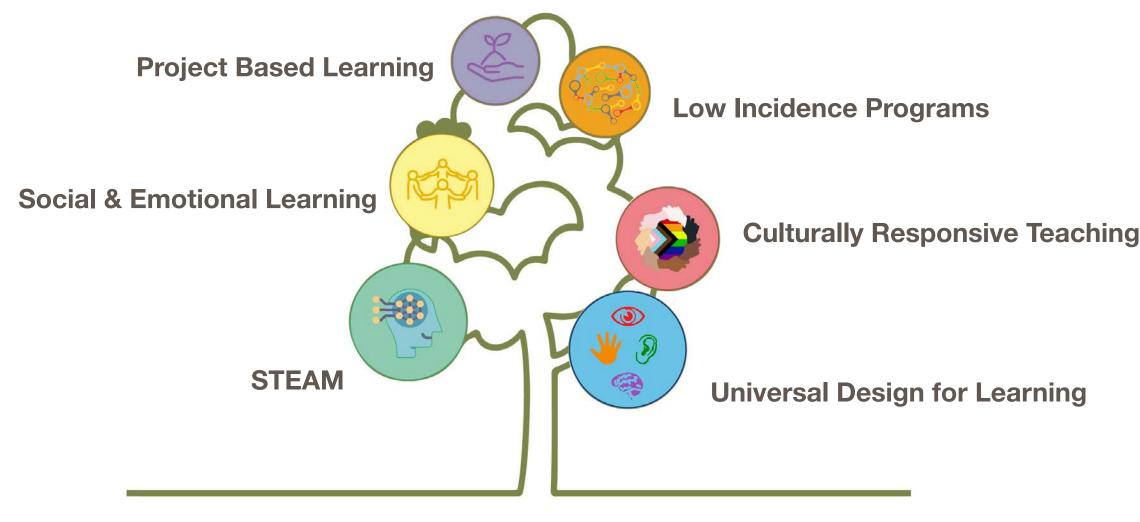




Visioning Sessions | Educational Goals

- Student Centered Learning
- Personalized Learning and Support
- Inclusive and Differentiated Instruction
- Tiered Approach to Intervention
- Special Education Support
- Responsive Classroom Approach

- Multi-Sensory Approach
- Social-Emotional Learning
- Project-Based Learning
- Outdoor Learning and Connections
- Movement and Play
- Building School Community









Visioning Sessions | Architectural Goals

- Warmth and Welcome
- Comfort, Flexibility and Safety
- Acoustics
- Wayfinding and Streetscapes
- Display and Exhibition
- Practicality and Durability
- Thoughtful Grade Level Configuration
- Classroom Neighborhoods
- Agile Classrooms

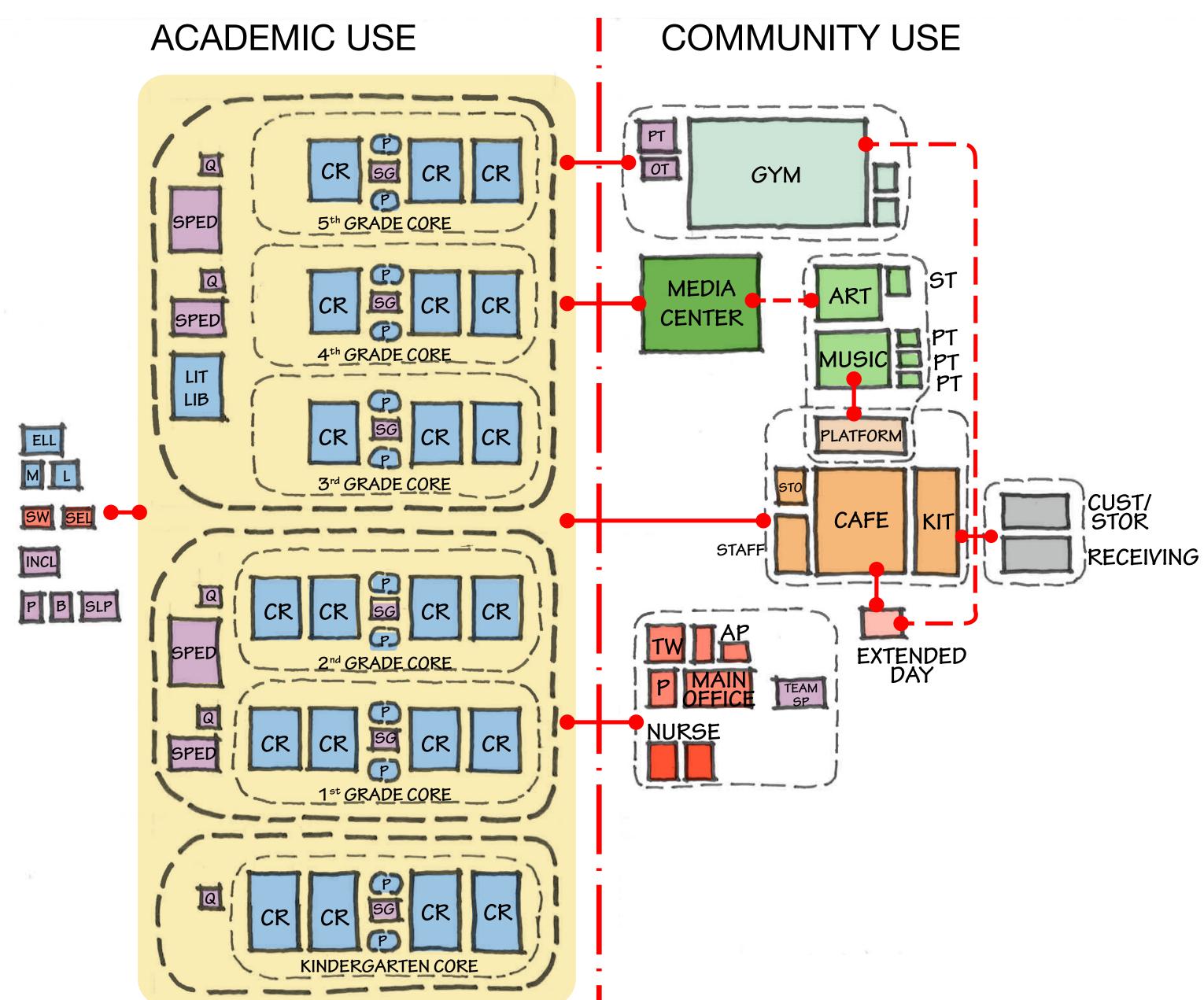
- Special Educational Spaces
- Enrichment Spaces
- Collaborative and Gathering Spaces
- Breakout and Quiet Spaces
- Connectivity
- Professional Work Areas
- Meeting and Small Group Spaces
- Outdoor Learning Spaces
- Sustainability







Spatial Relationships & Adjacencies



1st floor

- Administration
- Cafetorium
- Gym
- Music Room
- Kindergarten Classrooms
- Receiving

2nd floor:

- Library
- Art Room
- 1st & 2nd Grades

3rd floor:

• 3rd, 4th, & 5th Grades

Site Priorities

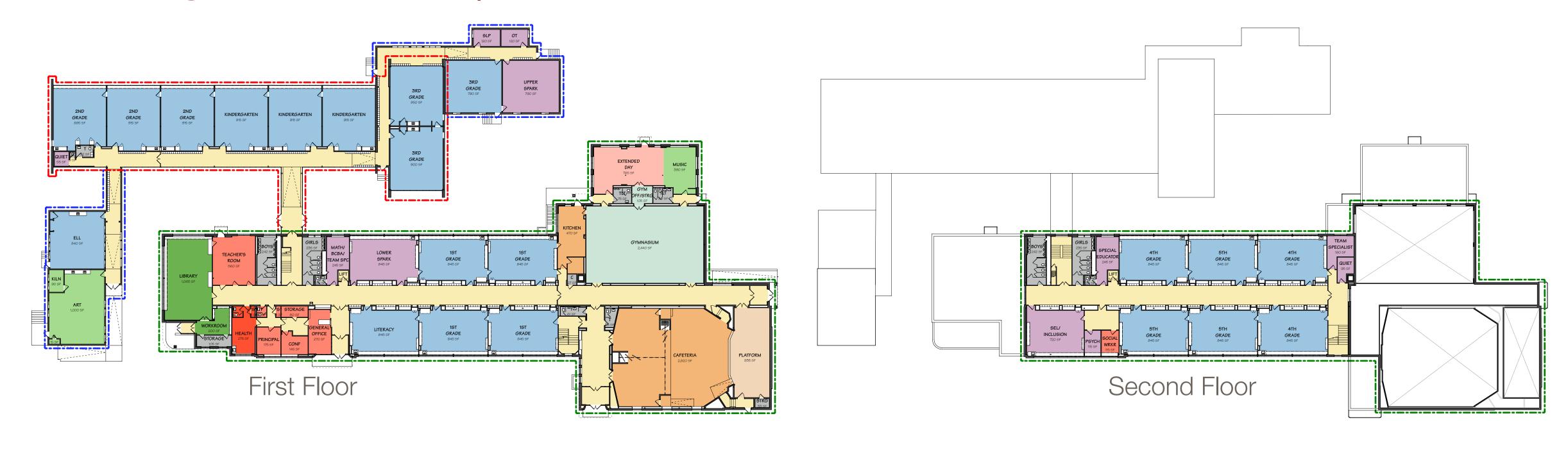
- Main entry at drop off area
- Separate bus and parent drop off areas
- Cafetorium connected to play area
- Receiving area in proximity to kitchen
- Gym with access to fields

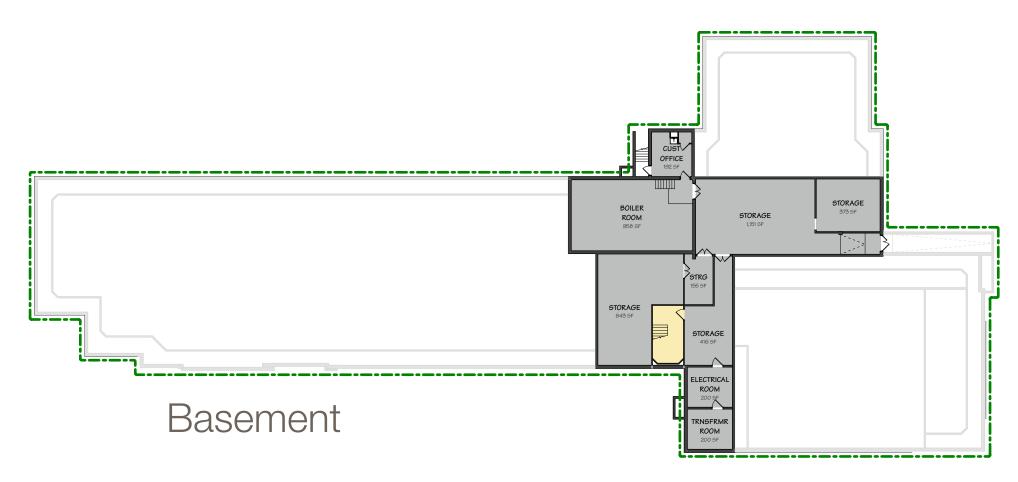
Existing Conditions | Existing Countryside Elementary School

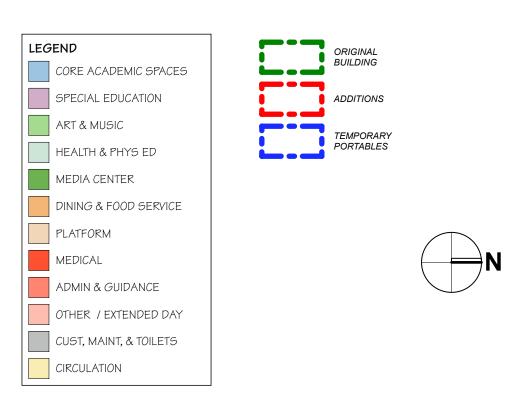


- Original building constructed 1953
- Additions constructed
 1958 and 1986
- Modular portable classrooms constructed 1991-2000
- 56,150 SF including portables + basement
- 372 Students
- 7.39 Acre Site

Existing Conditions Existing Countryside Elementary School



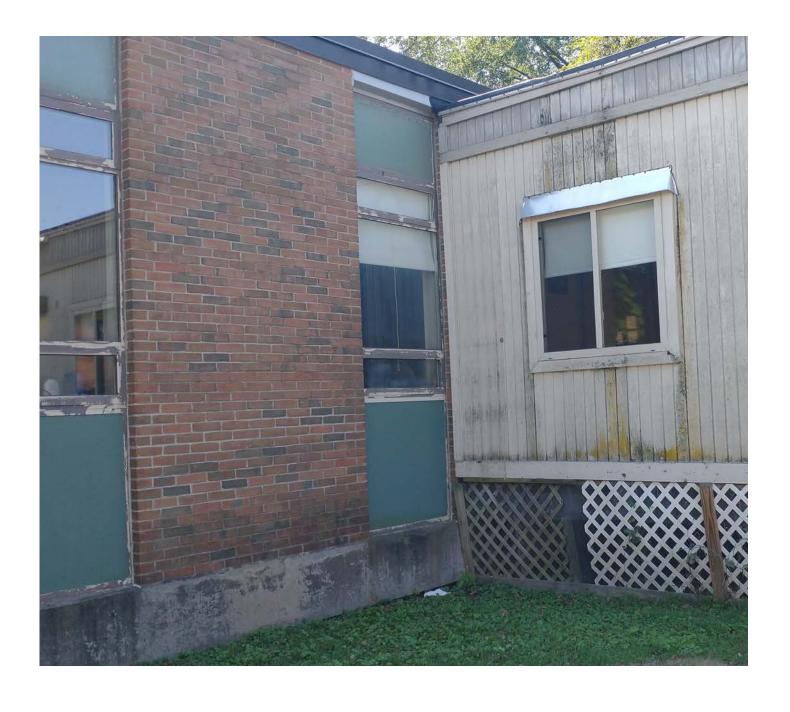




Existing Conditions | Building Exterior

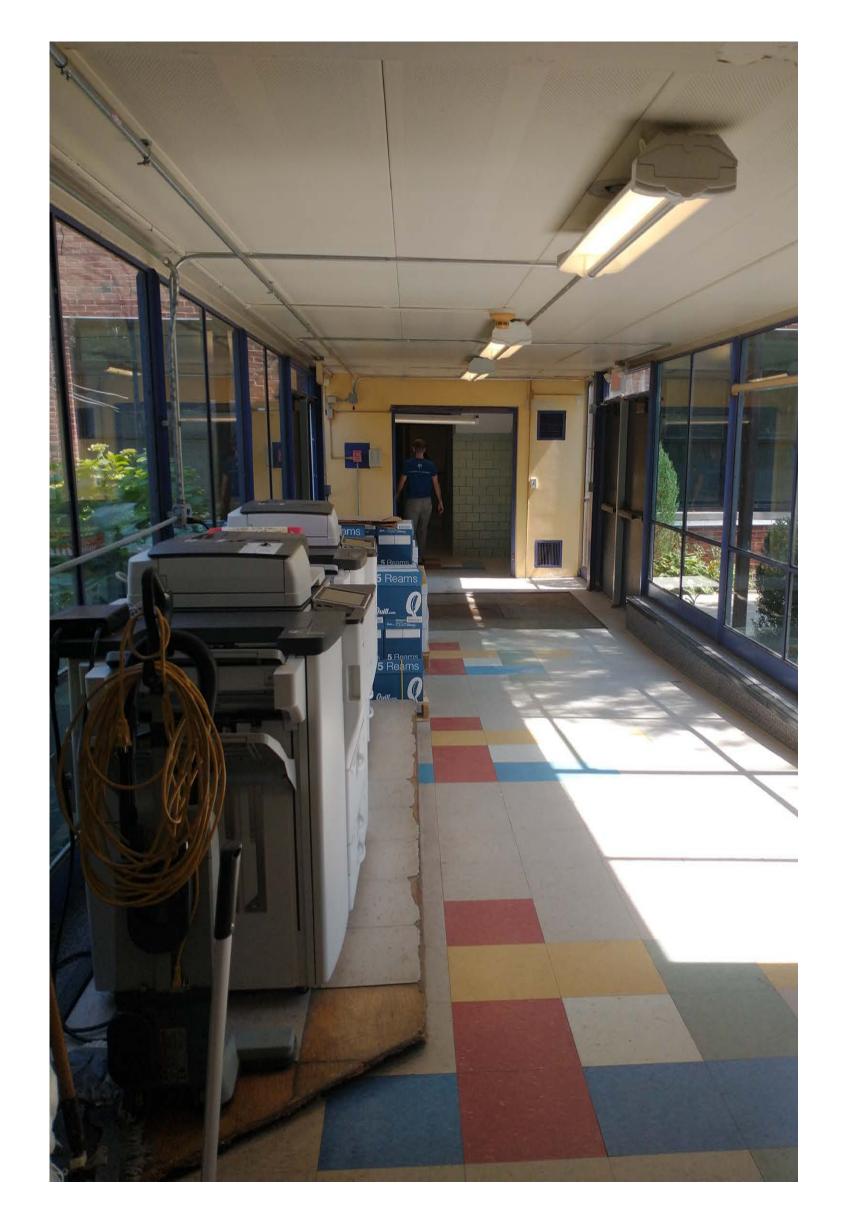


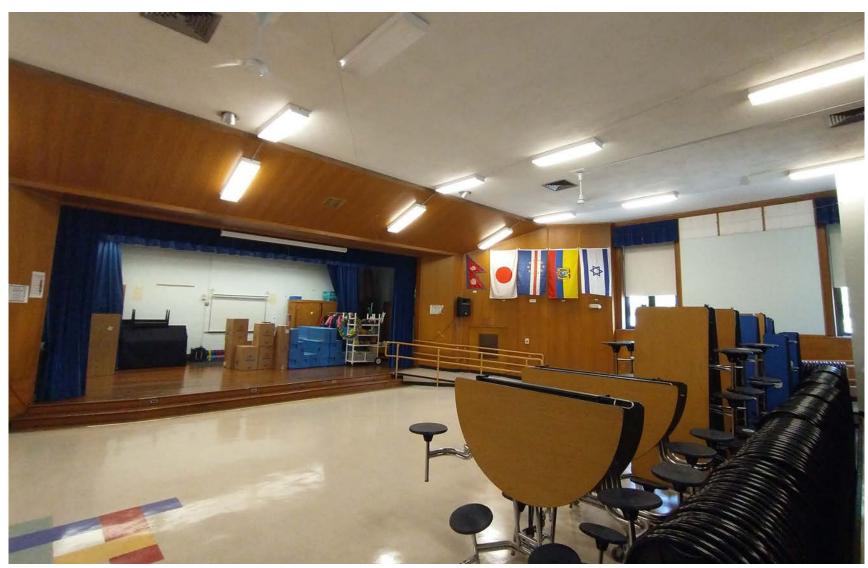




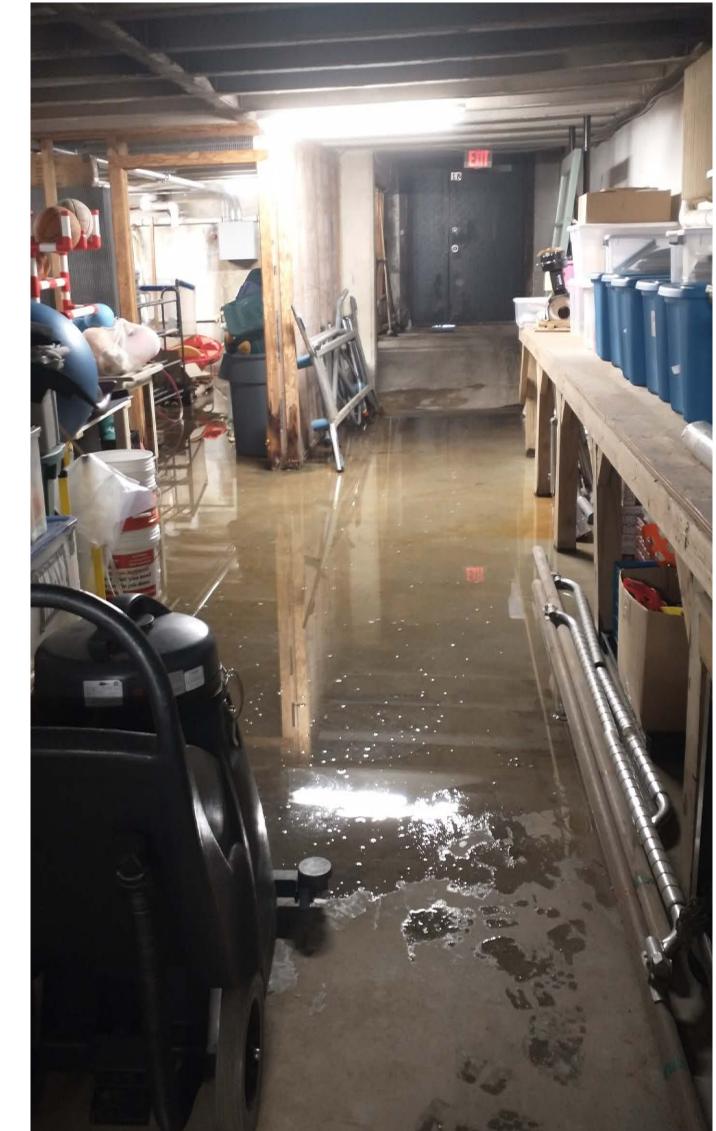


Existing Conditions | Building Interiors

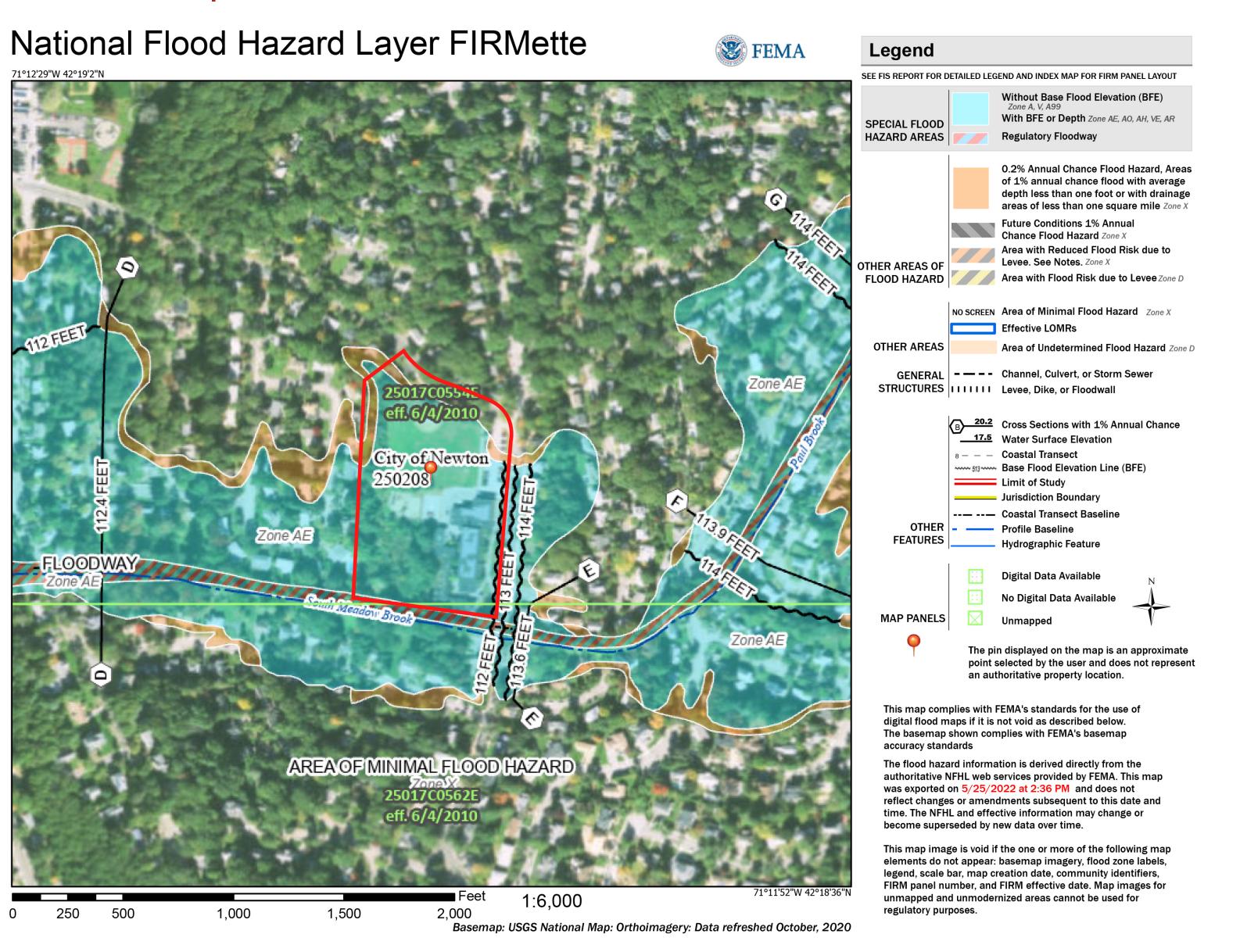




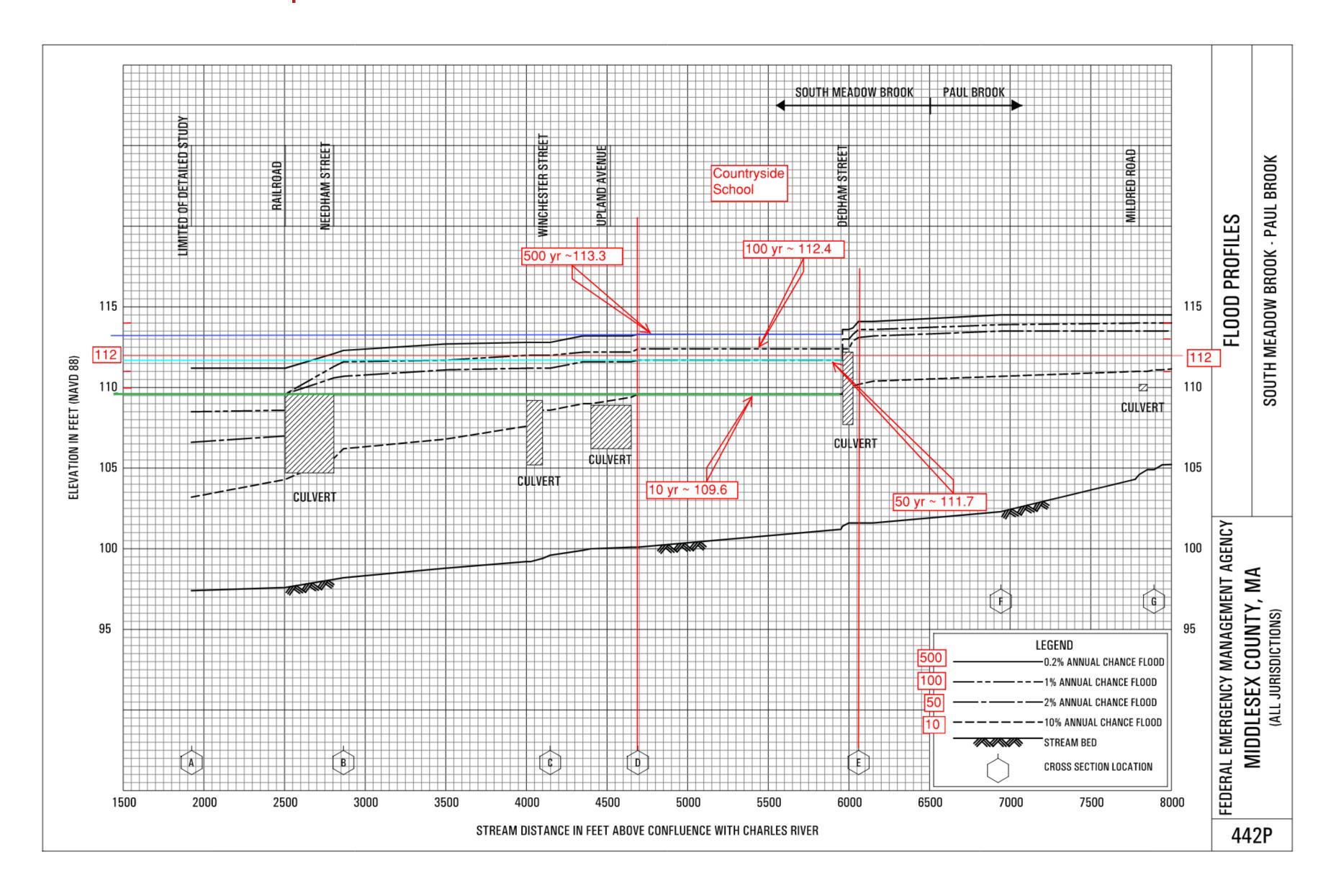




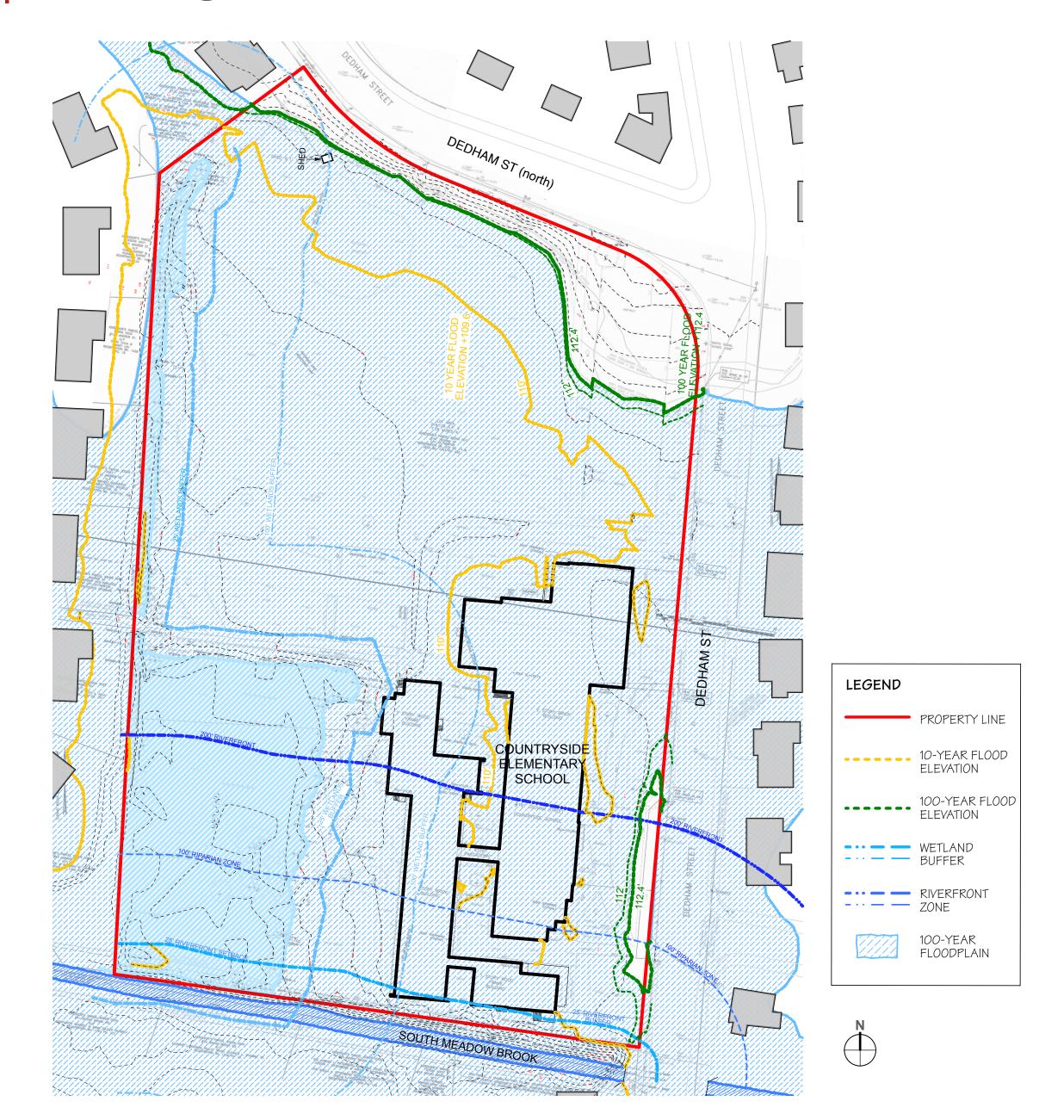
Existing Conditions | FEMA Flood Insurance Rate Map



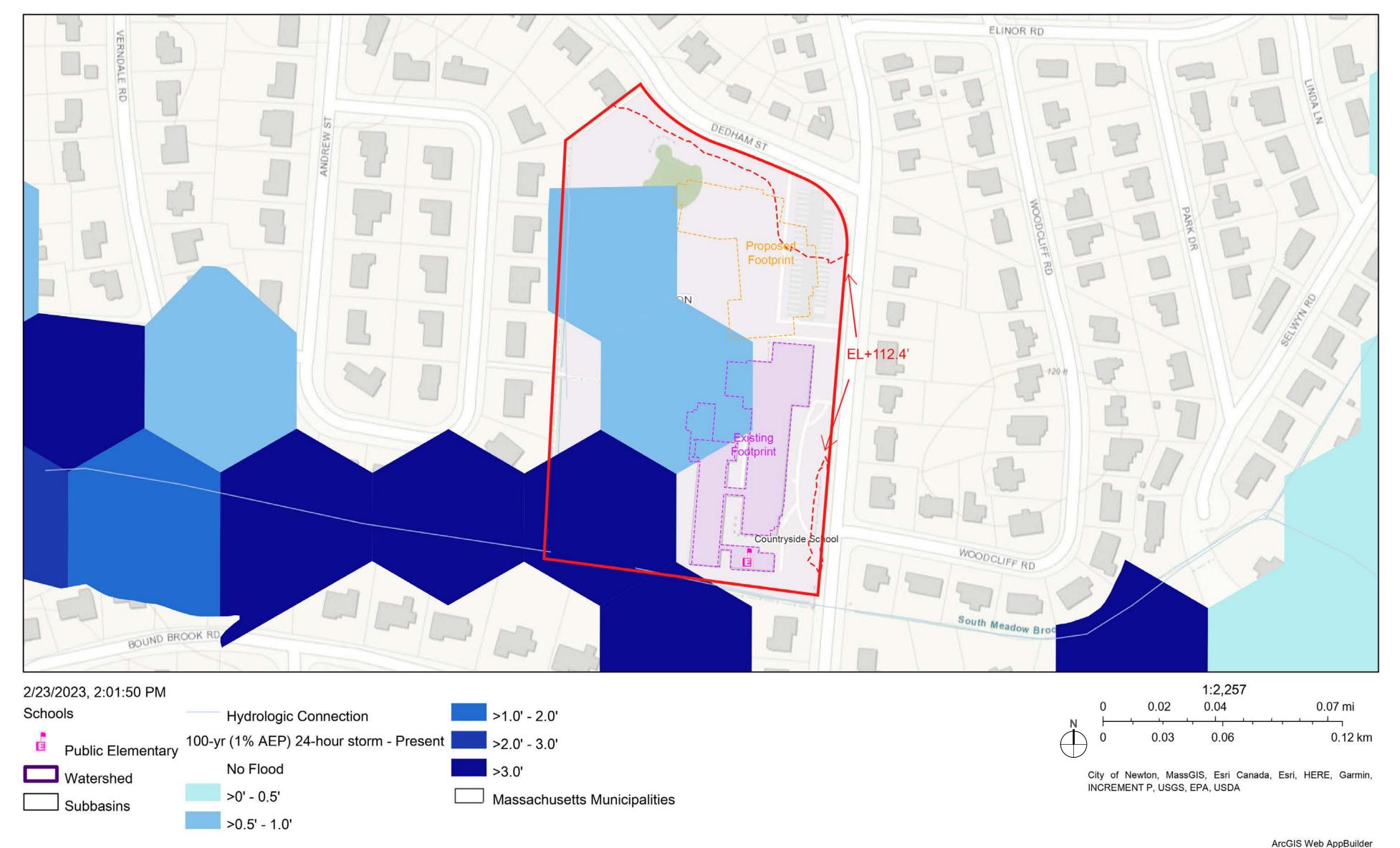
Existing Conditions | FEMA Flood Profiles



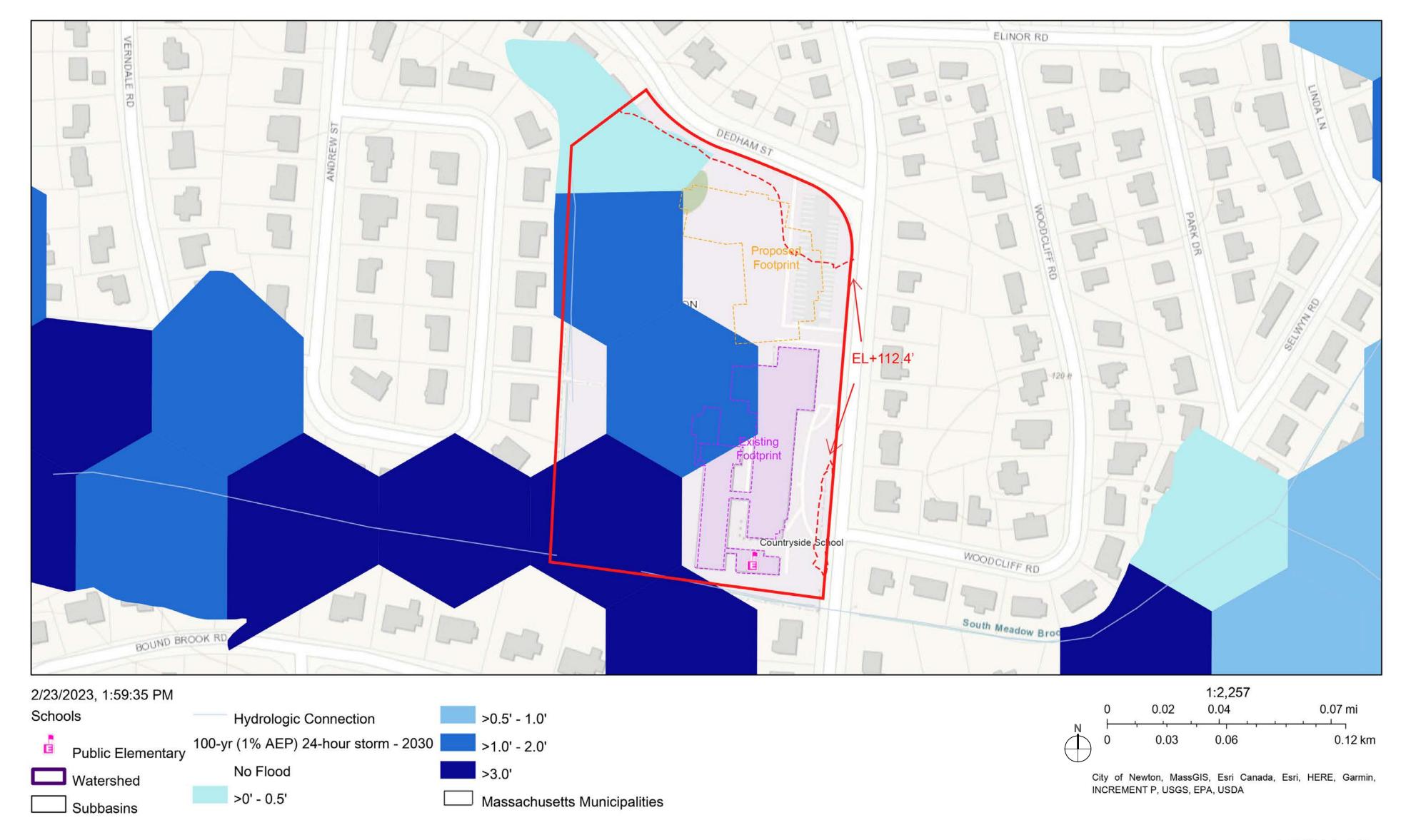
Existing Conditions | Existing Site Wetlands and Flood Plain



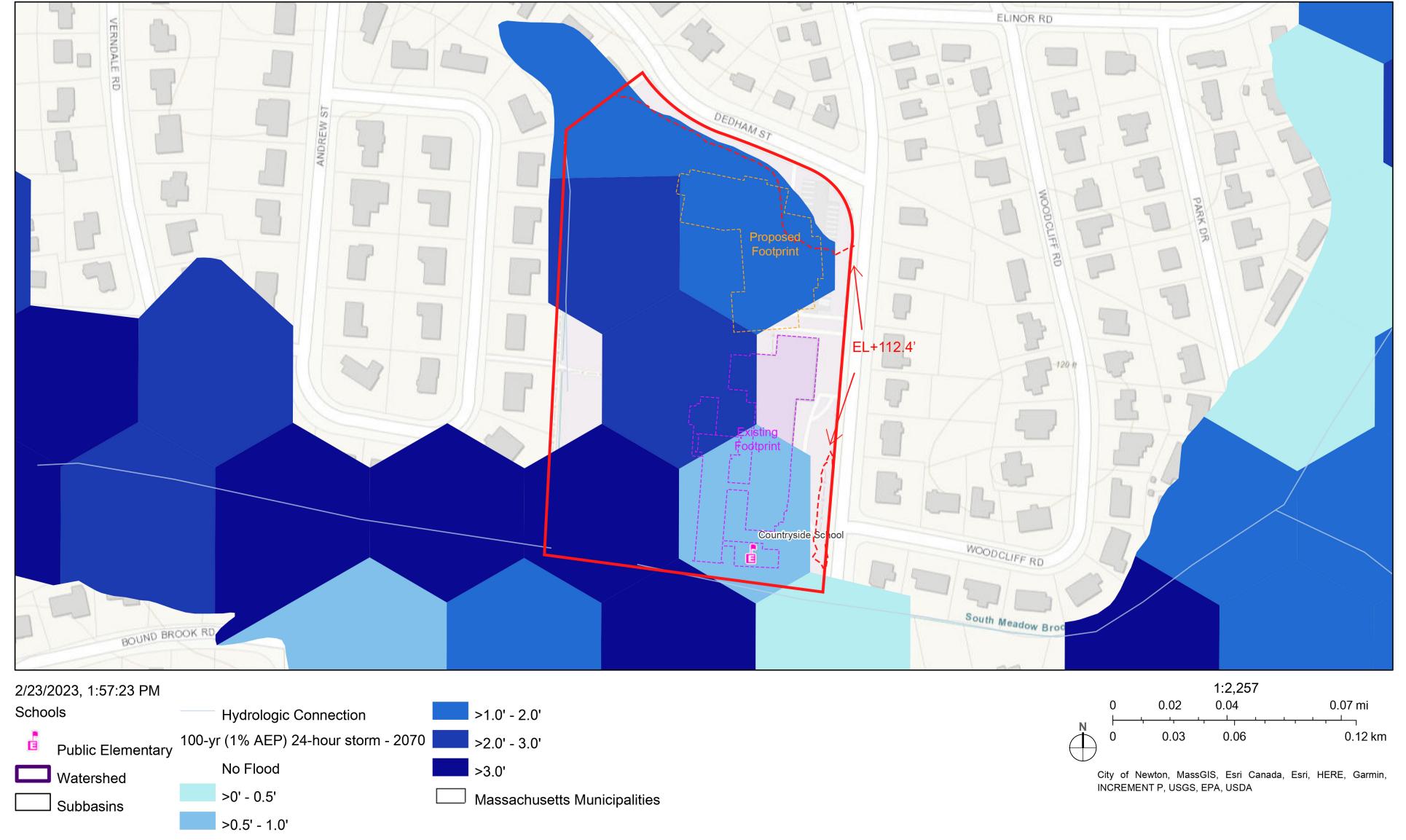
Site Considerations | CRWA Model for 100-yr Storm (24 hr period) - Present



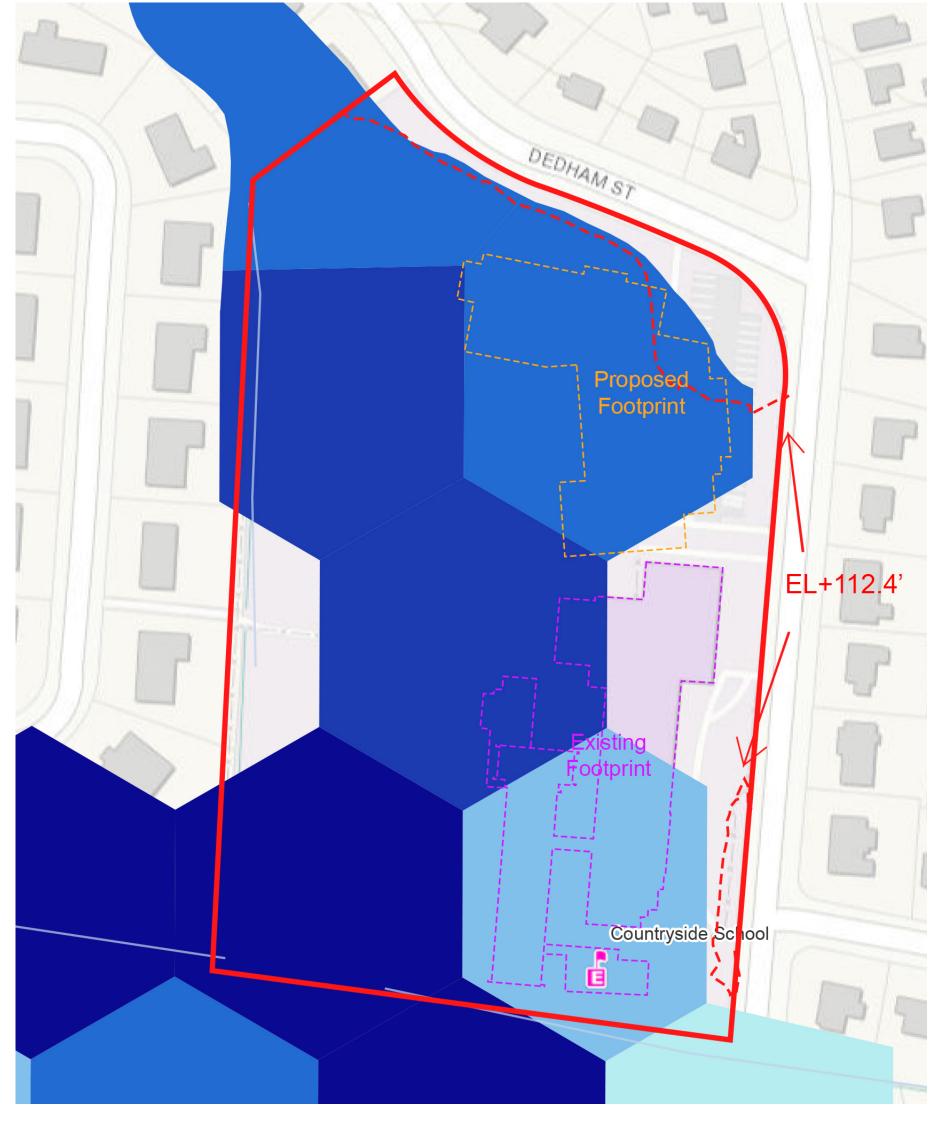
Site Considerations | CRWA Model for 100-yr Storm (24 hr period) - 2030



Site Considerations | CRWA Model for 100-yr Storm (24 hr period) - 2070

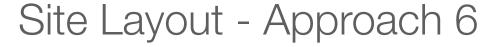


Site Considerations | CRWA Model + Approach 6 Site Layout



100-yr Storm (24 hr period) - 2070









Approach 6 | 465 Students | New Construction | 75,500 SF



- Matches building volume within floodplain; may require partial construction on piers
- Building outside 100-ft wetland buffer
- Separate drop off for cars, buses, vans and service
- Site improvements include new playground, fields and parking
- Provides opportunity for occupied site during construction
- Future expansion can only occur on upper floors on piers due to floodplain restrictions
- Meets enrollment projections

Preferred Approach to further study

Approach 6A Preliminary Location Options



- Entrance to main lobby centrally located between Dedham Street north & south
- First floor same level as main entrance (two entryways)
- Takes advantage of higher ground above 100-yr flood elevation for entry plaza
- Service and loading area access from Dedham Street east - does not require additional fill and retaining walls
- Gym location direct access to fields and playground
- Construction of new building is approximately 10 feet away from existing building
- Classroom wing has north-south orientation

Approach 6A | 465 Students | New Construction | 75,500 SF



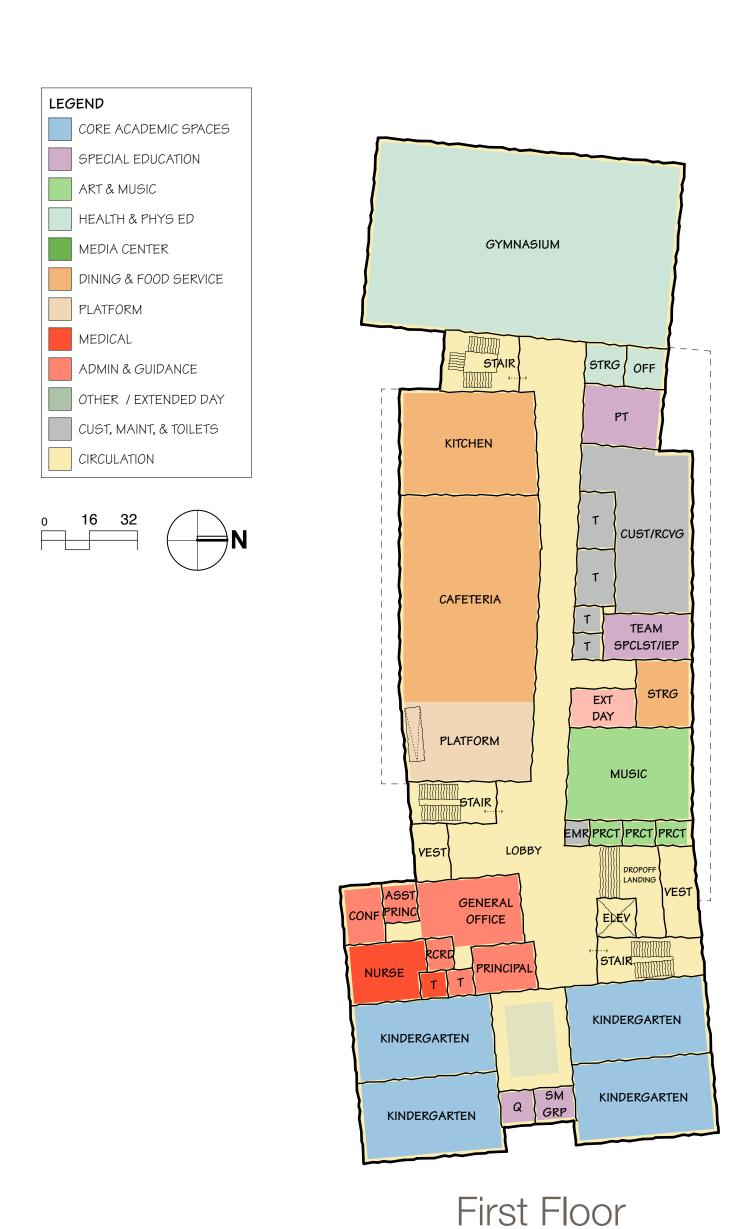
- Meets MSBA Space Guidelines
- Ideal spatial relationships and adjacencies
- Gymnasium on first floor
- Kindergarten on first floor
- North / South solar orientation classrooms

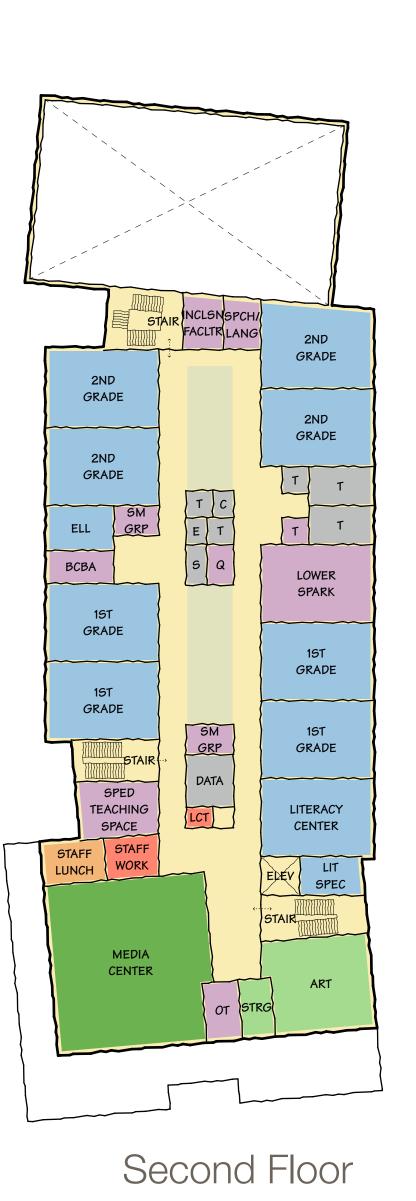
Approach 6B Preliminary Location Options

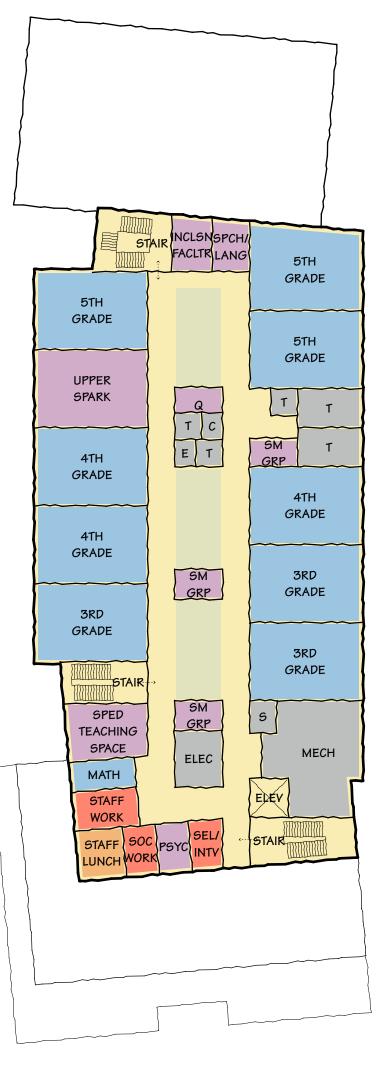


- Entry to main lobby at Dedham
 Street north and at playground
- First floor split level from main entrance at Dedham Street north (two entryways)
- Entry plaza will require fill within 100-yr flood elevation
- Service and loading area access from Dedham Street north - will require fill and retaining walls
- Gym location direct access to fields and playground
- Construction of new building is approximately 100 feet away from existing building
- Classroom wing has north-south orientation

Approach 6B | 465 Students | New Construction | 75,500 SF







- Meets MSBA Space Guidelines
- Ideal spatial relationships and adjacencies
- Gymnasium on first floor
- Kindergarten on first floor
- North / South solar orientation classrooms

Approach 6C Preliminary Location Options



- Entry to main lobby accessed from interior of site - bus and parent dropoff/pick up is not directly adjacent to the school entrance
- First floor same level as main entrance (one entry way)
- Entire building and entry plaza within 100-yr flood elevation
- Service and loading area access from Dedham Street north - will require fill and retaining walls
- Gym location direct access to fields and playground
- Construction of new building is over
 100 feet away from existing building
- Classroom wing has north-south orientation

Approach 6D Preliminary Location Options



- Entry to main lobby accessed from interior of site bus and parent drop-off/pick up is not directly adjacent to the school entrance
- First floor same level as main entrance (one entry way)
- Entire building and entry plaza within 100-yr flood elevation
- Service and loading area access from Dedham Street north - will require fill and retaining walls
- Gym location not adjacent to playground and field, but building can be mirrored for gym adjacent to playground
- Construction of new building is over
 100 feet away from existing building
- Classroom wing has east-west orientation

Preliminary Criteria Matrix

COUNTRYSIDE ELEMENTARY SCHOOL — 191 Dedham Street, Newton, MA							
	•	Neutral	O Unfavorable				
			465 STUDENT ENROLLMENT				
	EX	6A	6B	6C	6D		
	Existing School at Existing Location	L-SHAPE Northeast Corner	BAR SHAPE North Perimeter	L-SHAPE Northwest Corner	BAR SHAPE Western Perimeter		
BUILDING LOCATION EVALUATION CRITERIA MATRIX	Albert s	ANNOVA ST. ANNOVA	MAGEN ST. NEW ST. N	AMORN ST. NEW YORK ST. NEW Y	AMMUN ST AMMUN		
Building and Site Facts							
1 Student enrollment population	372	465	465	465	465		
2 Size of site (acres)	7.39	7.39	7.39	7.39	7.39		
3 Site Environmental (wetlands, etc.)	2.02	2.02	2.02	2.02	2.02		
4 Meets MA Flood Regulations (prereq.)	NO	YES	YES	YES	YES		
5 Site usable (acres)	5.37	5.37	5.37	5.37	5.37		
6 Building gross square feet (GSF)	56,150	75,500	75,500	75,500	75,500		
7 Building Footprint gross square feet (GSF)	39,940 (including modulars)	33,000	33,650	32,000	32,700		
Building volume within 100-year Flood Elevation (cubic feet) (Assumes standard foundation w/ slab on grade - for comparison purposes, no construction on piers)	84,097	73,600±	78,750±	99,100±	117,300±		
9 Site improvements/developed area (SF)	193,060	200,000	199,350	201,000	200,300		
Distance from wetland - 25 ft "No Disturb" zone (closest part of bldg in feet)	0	175	15	25	20		
11 Building inside 100' wetland buffer	YES	NO	YES	YES	YES		
12 Staff Parking Spaces	43	46	43	43	44		
13 HP Parking Spaces	1	2	2	2	2		
14 Van Parking Spaces	3	5	5	5	5		
15 Bus Drop-off/Pick-up zone number of buses accommodated	2 + 2 onstreet	4	4	4	4		
Cost and Schedule							
1 Project Cost, \$million							
2 Allows students to move in to new school Fall 2027		•	•	•	•		
3 Requires swing space		•	•	•	•		
4 Maintains standard site plan approval schedule		•	•	•	•		
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Preliminary Criteria Matrix

	465 STUDENT ENROLLMENT						
	EX	6A	6B	6C	6D		
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BUILDING LOCATION EVALUATION CRITERIA MATRIX	ANOTHING ST	ANOTHERS OF THE PARTY OF THE PA	AND CONTRACTOR DE SEGUERA DE SEGU	Monthly 51 School State of the	ANDREW ST. NEW CLASS OF THE PROPERTY OF THE P		
Educational							
1 Provides flexibility for future growth (construction on piers)		•	•	•	⊙		
2 Provides flexibility for educational innovations / pedagogy		•	•	•	•		
3 Optimizes configuration and adjacency of teaching spaces		•	•	•	•		
4 Provides outdoor learning opportunities		•	•		•		
5 Allows for efficient program design layout		•	•	•	•		
6 Minimizes existing school disruption		•	•		•		
Safety & Security							
1 Optimizes safety and efficiency of on-site bus and van drop off		•	•		•		
2 Separates safe circulation of bus, vehicle, pedestrian and bike access		•	•	•	•		
3 Improves off site traffic impact		•	•	•	•		
4 Optimizes site for safe pedestrian and bike access		•	•	•	•		
5 Optimizes safe building access		•	•	Ö	Ö		
Community							
1 Provides accessibility to community used spaces (interior)		•	•	0	•		
2 Accommodates community program needs / extended day program		•	•	•	•		
3 Enhances community connections		•	•	•	•		
4 Enhances community green/open space and playground		•	•	•			
5 Construction Impact on abutters		•	•	•	0		
Building							
Meets current building codes (prereq.)							
2 Meets MAAB/ADA requirements (prereq.)							
Meets healthy building environment (prereq.) Requires less building construction on piers.							
4 Requires less building construction on piers 5 Meets bazardous material remedial requirements (prered)							
5 Meets hazardous material remedial requirements (prereq.) 6 Allows for a contextually sonsitive design							
6 Allows for a contextually sensitive design 7 Optimizes use of natural light and daylighting					<u> </u>		
7 Optimizes use of natural light and daylighting							
8 Optimizes connection of outdoor/indoor space, integration with site							
9 Allows efficient attainment of Green School/Stretch Code requirements					•		

Preliminary Criteria Matrix

	465 STUDENT ENROLLMENT					
	EX	6A	6B	6C	6D	
	Existing School at Existing Location	L-SHAPE Northeast Corner	BAR SHAPE North Perimeter	L-SHAPE Northwest Corner	BAR SHAPE Western Perimeter	
BUILDING LOCATION EVALUATION CRITERIA MATRIX	ASSENCE OF THE PROPERTY OF THE	AGOING ST AGOING ST	MODERN ST. COMMY SER. COLUMN	MOTHWAY ST CONTROL OF THE STATE	Nomina st	
Site						
1 Meets MAAB/ADA requirements (prereq.)		•	•	•	•	
2 Meets environmental remedial requirements (prereq.)		•	•		•	
3 Maximizes efficient utilization of site		•		•	•	
4 Optimizes outdoor program space and green space		•	$oldsymbol{\odot}$	ledo	•	
5 Optimizes safety and efficiency of on-site bus and van drop off		•	•	•	•	
6 Separates safe circulation of bus, vehicle, pedestrian and bike access		•	•	•	•	
7 Provides sufficient parking for teachers, staff + visitors		•	•	•	•	
8 Improves off site traffic impact		•	•	•	•	
9 Optimizes site for safe pedestrian and bike access		•	•	•	•	
10 Allows for future expansion		•			0	
Sustainability						
1 Achieves City goal for fossil free building HVAC systems		•	•	•	•	
2 Optimizes building orientation		•	•	•	0	
3 Optimizes solar (PV) opportunities		•	•	•	•	
4 Allows efficient attainment of Green School/Stretch Code requirements		•	•	•	•	
5 Optimizes building envelope thermal performance		•		•	•	
Gross Scoring		41	39	28	23	

Preliminary Site Plan | Approach 6A



Preliminary Massing Studies | Approach 6A



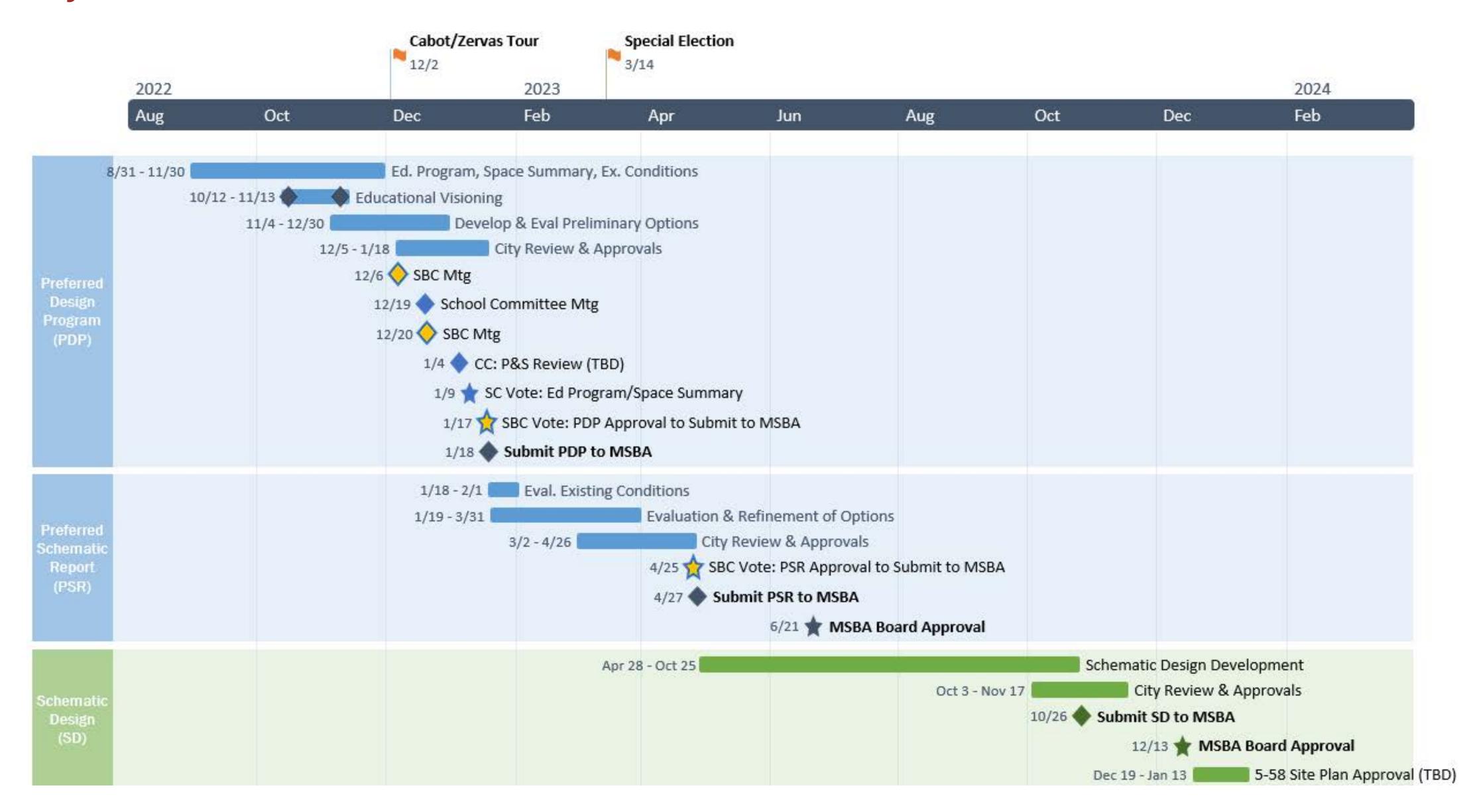
Preliminary Massing Studies | Approach 6A



Preliminary Massing Studies | Approach 6A

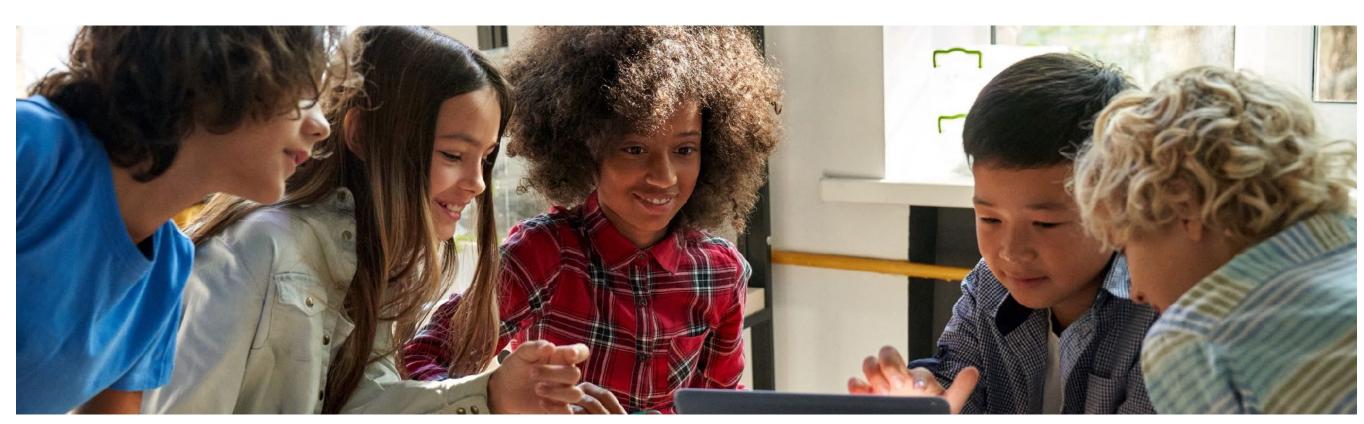


Project Timeline/Schedule









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