



Community  
Presentation

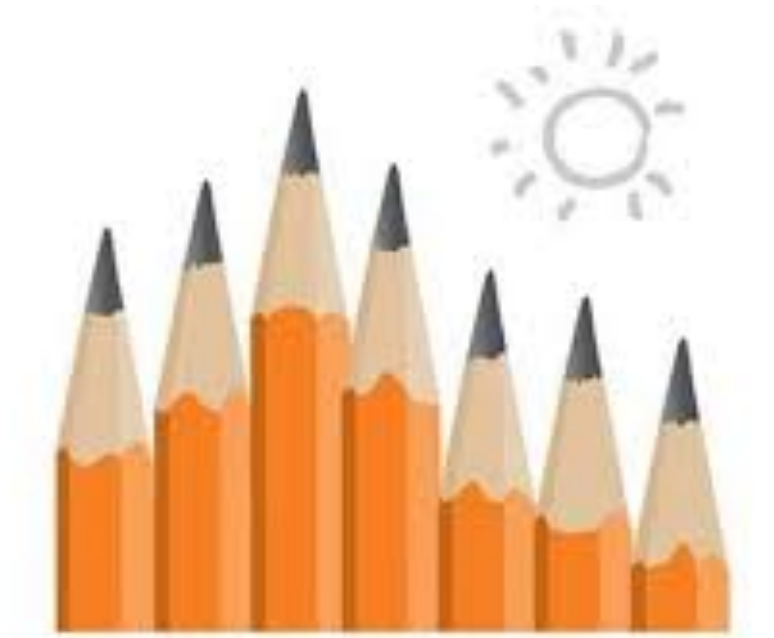
# BURLINGTON ELEMENTARY SCHOOL

Burlington, MA

# MSBA Process

The MSBA delivers a project through a clearly defined and prescribed process utilizing “modules”

- Module 1 – Eligibility Period
- Module 2 – Forming the Team
- **Module 3 – Feasibility Study**
- Module 4 – Schematic Design
- Module 5 – Funding the Project
- Module 6 – Detailed Design
- Module 7 – Construction
- Module 8 – Completing the Project



Massachusetts School  
Building Authority



# Project Team



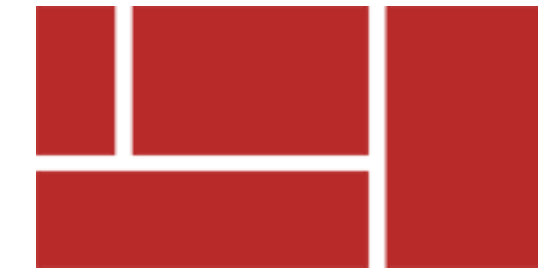
## Dore & Whittier Team

**Michael Burton** MCPPO  
Principal-In-Charge

**Steve Brown** MCPPO  
Project Director

**Christina Dell Angelo** MCPPO  
Project Manager

**Michael Cox** MCPPO  
Project Manager



## DiNisco Team

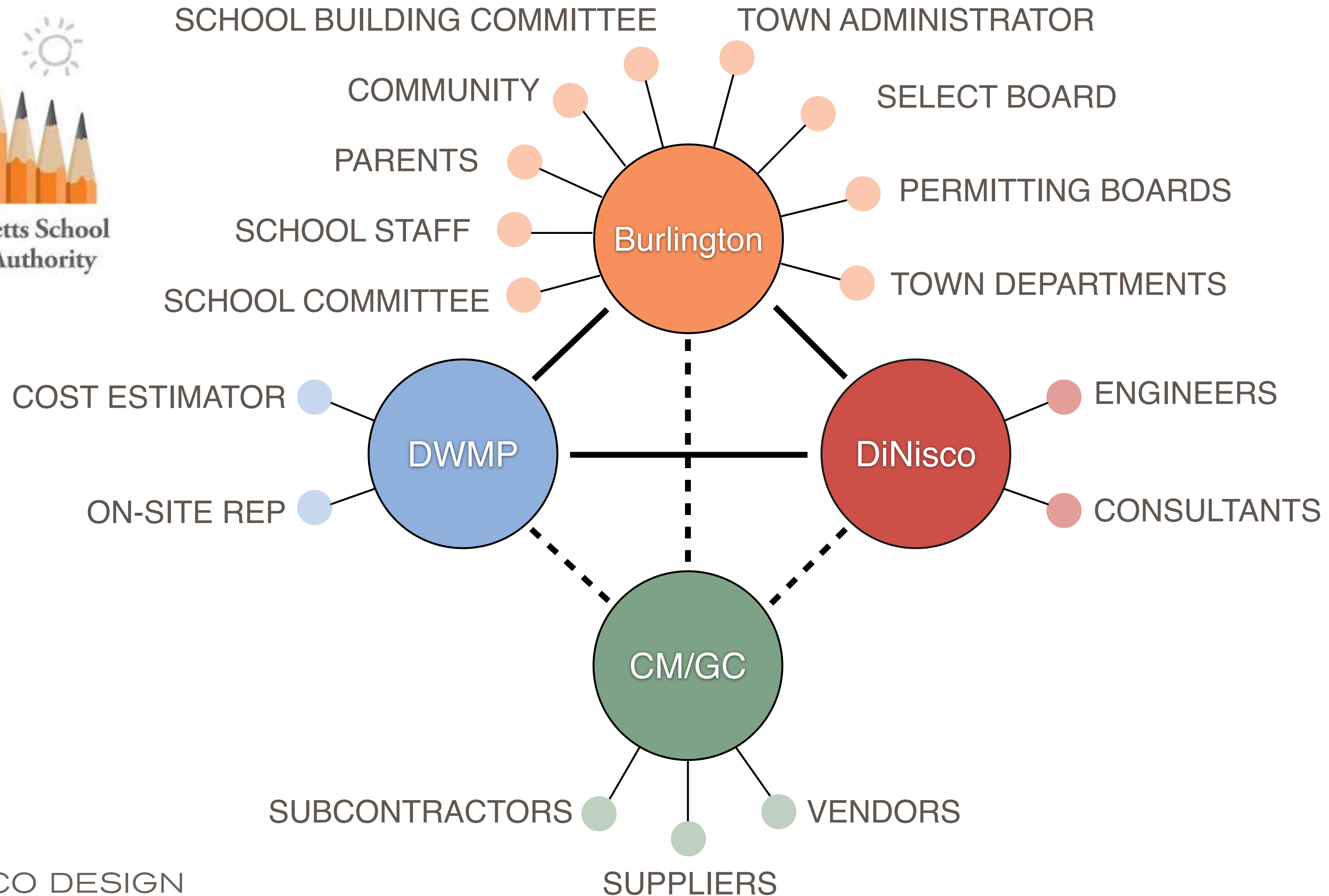
**Vivian Low** AIA, MCPPO  
Vice President/Principal  
Principal-In-Charge

**Donna DiNisco** MCPPO  
President/Principal  
Educational Programmer

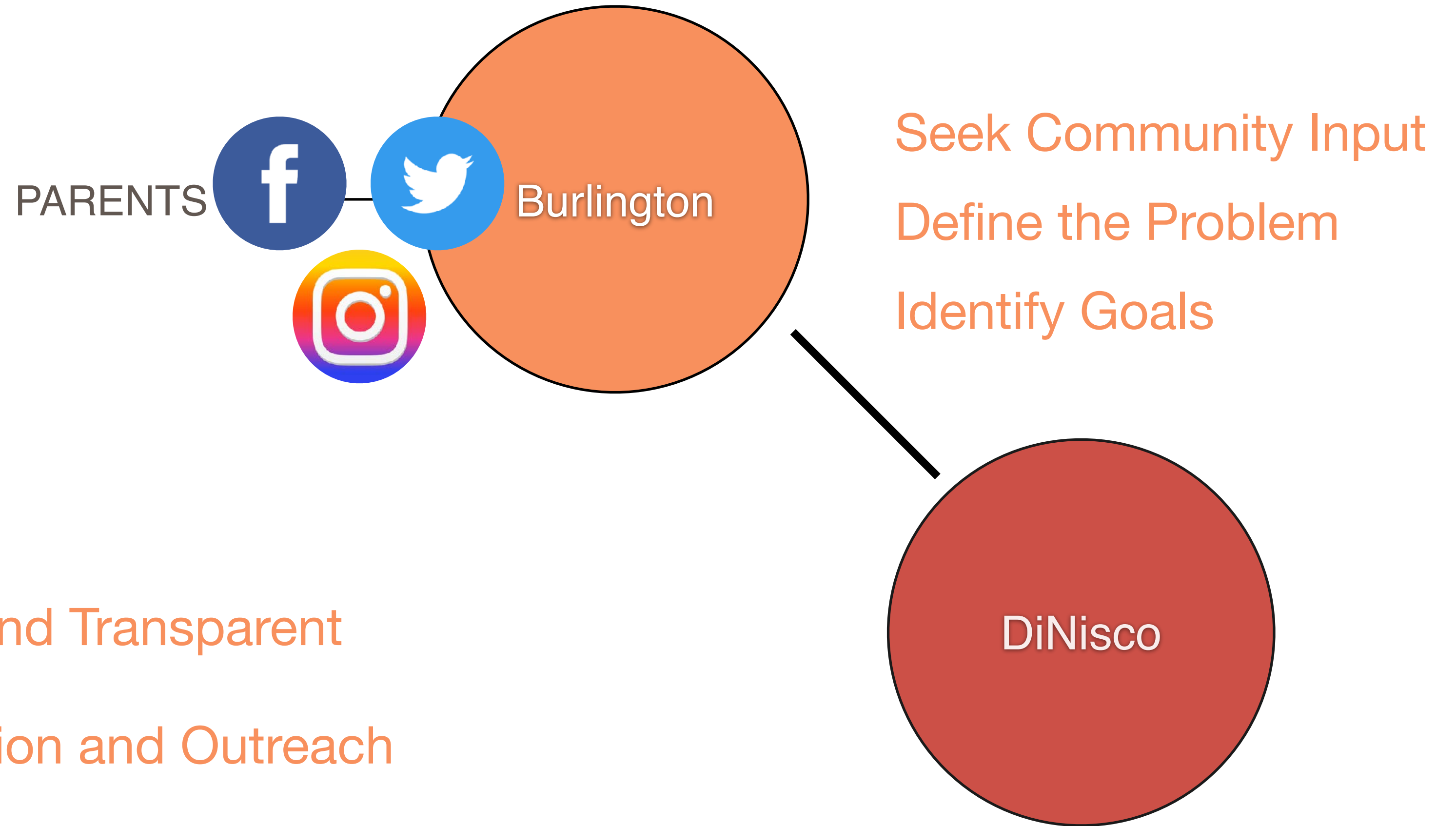
**Neil Harrigan** AIA, MCCPO  
Associate  
Project Manager



# The Project Team | Collaboration



# Collaboration | Burlington Community



Welcoming and Transparent  
Communication and Outreach  
Consensus  
Enriched Design

# MSBA Process

## Module 3 Activities - Feasibility Study:

Preliminary Design Program (PDP) ~ Completed, Submit to MSBA July 14, 2023

Preferred Schematic Report (PSR) ~ December 2023

- Summarize the Preliminary and Final Evaluation of Alternatives
- Cost comparison table
- District's selection of the most cost effective and educationally appropriate preferred solution to the MSBA

MSBA Board Approval of PSR ~ February 2024

## Module 4 Activities — Schematic Design:

Schematic Design Submission ~ June 2024

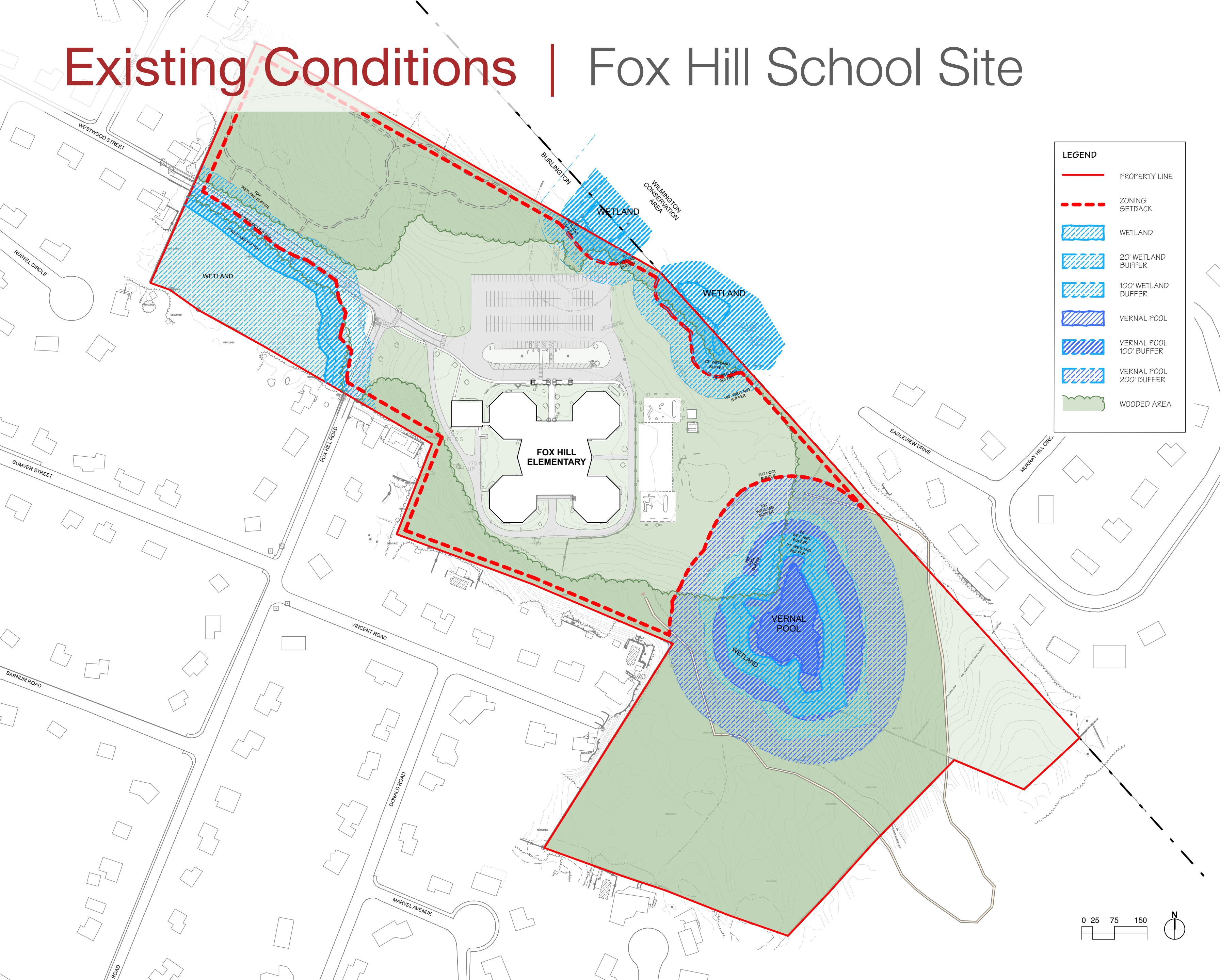
- Final design program
- More detailed cost estimates
- Preliminary Plans / Specs

MSBA Board Approval of Schematic Design ~ August 2024

Local Project and Funding Approval ~ September 2024



# Existing Conditions | Fox Hill School Site



- 37.9 Acre site — 17.9 acres usable area, limited by wetlands and vernal pool. Some rock outcroppings are located at the southeast corner of the site (south of existing school)
- 64,400 GSF existing building
- Relatively high ground water in select areas of the site
- Rock removal may be required
- ANRAD (Abbreviated Notice of Resource Area Delineation) filings and conservation commission approvals will be required in both Burlington and Wilmington

# Traffic and Safety | Preliminary Traffic Study Findings

## Traffic Study (Intersections - Fox Hill/Westwood and Westwood/Wilmington)

- Data collection and counts include vehicles, bicycles and pedestrians
- Intersections are highly rated for level of service
- Average traffic speed is 30-32 mph
- Longest stop at intersections is 2 cars
- Vehicle Crash Data Review - 6 total over the last 5 years (3 of them single car incidents)

## Safety Improvement Recommendations

- Update school zone and crosswalk signage and striping to meet current standards
- Add crosswalks and signage at Fox Hill / Vincent, and Westwood / Richard
- Widen existing sidewalks to 8 feet to accommodate bikes and walkers
- Create buffer space between sidewalks and roadways
- Add traffic calming measures (chicanes, chokers, curb extensions, median islands, narrow travel lanes, speed hump or tables)



# Traffic and Safety | Town Planned Improvements



- New signs and lines at Fox Hill School (DPW)
- Flashing lights at crosswalks, pending (Safe Routes to School)
- Updated signage at mid block crosswalks and re-striping (DPW)
- New sidewalks - 2029-2030 (Town Capital Project)
- Rehab existing sidewalks - 2023-2026 (DPW)

# Existing Conditions | Fox Hill ES



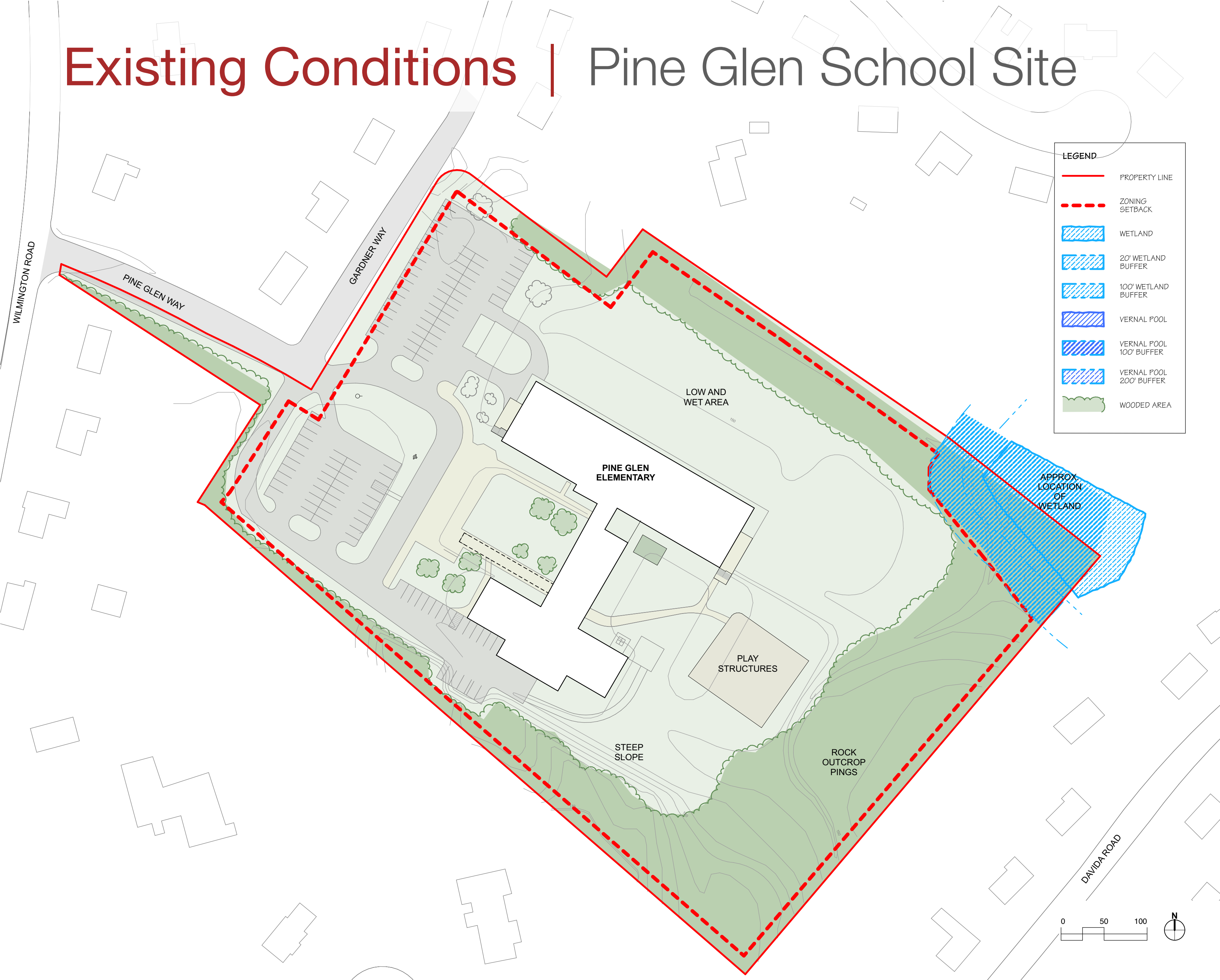
# Existing Conditions | Fox Hill ES



# Existing Conditions | Fox Hill ES



# Existing Conditions | Pine Glen School Site



- 11.8 Acre site — 9.6 acres usable area, limited by wetlands and rock outcroppings
- 58,000 GSF existing building
- Presumed high water table
- Poorly draining soils
- Rock removal will be required
- ANRAD filing and conservation commission approval may be required

\* No formal investigations performed. Based upon visual observations only

# Existing Conditions | Pine Glen ES



# Existing Conditions | Pine Glen ES

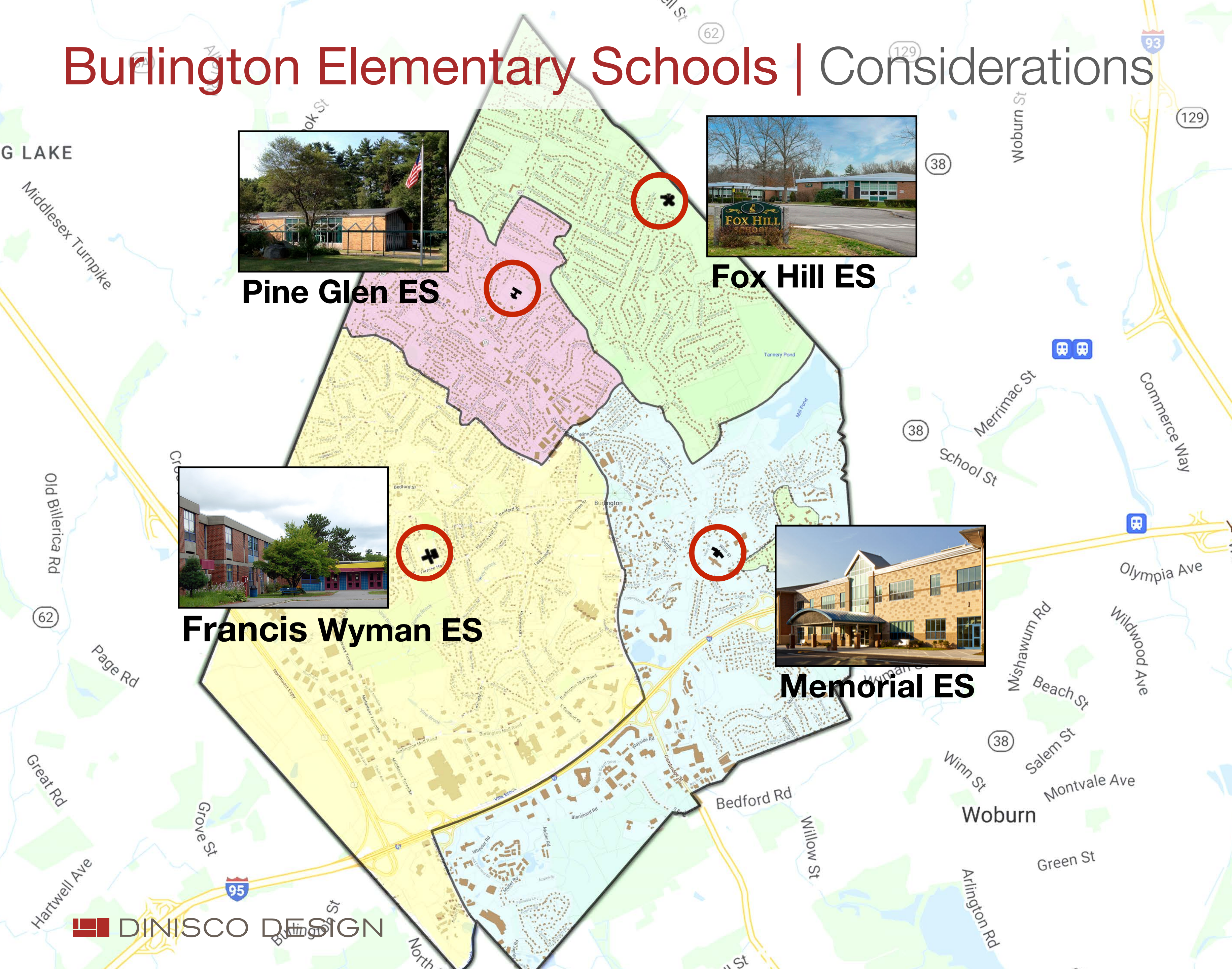


# Existing Conditions | Pine Glen ES





# Burlington Elementary Schools | Considerations



**Pine Glen ES**



**Fox Hill ES**



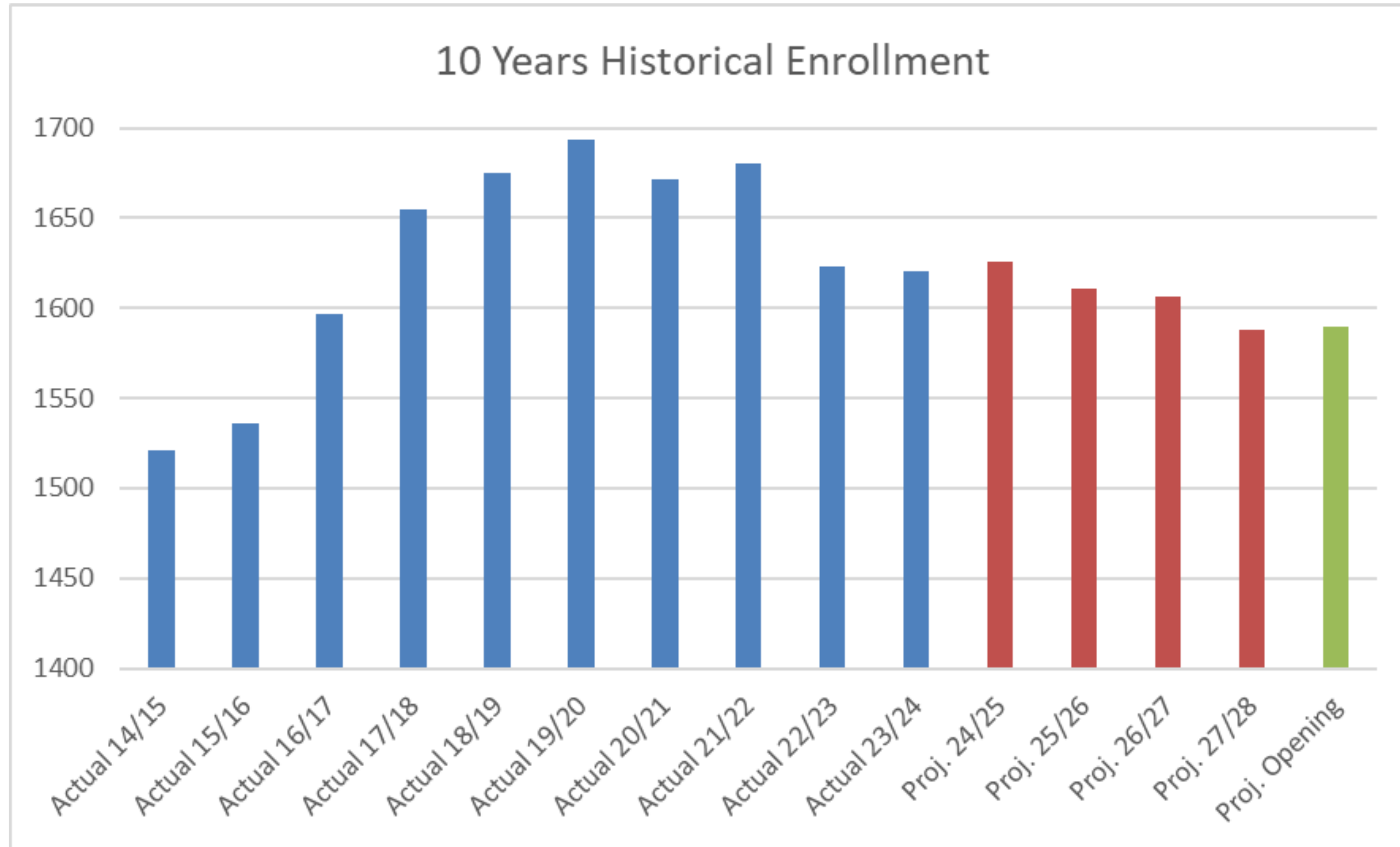
**Francis Wyman ES**



**Memorial ES**

- Elementary school equity
- Enrollment considerations
- Future flexibility
- Community support

# Preliminary Design Program | Enrollment Projections



	Prelim. 23/24 Enrollment	Projected 2028 Enrollment (@ New School(s) Completion)	School Capacity* (@ New School(s) Completion)
Fox Hill	438	324	324
Pine Glen	315	324	324
Memorial	379	414	414
Francis Wyman	475	530	540
<b>Total Enrollment</b>	<b>1,607</b>	<b>1,592</b>	<b>1,602</b>

\* Based on 18 students / classroom

# MSBA Process

## Module 3 Activities - Feasibility Study:

### Preliminary Design Program (PDP) ~ July 2023

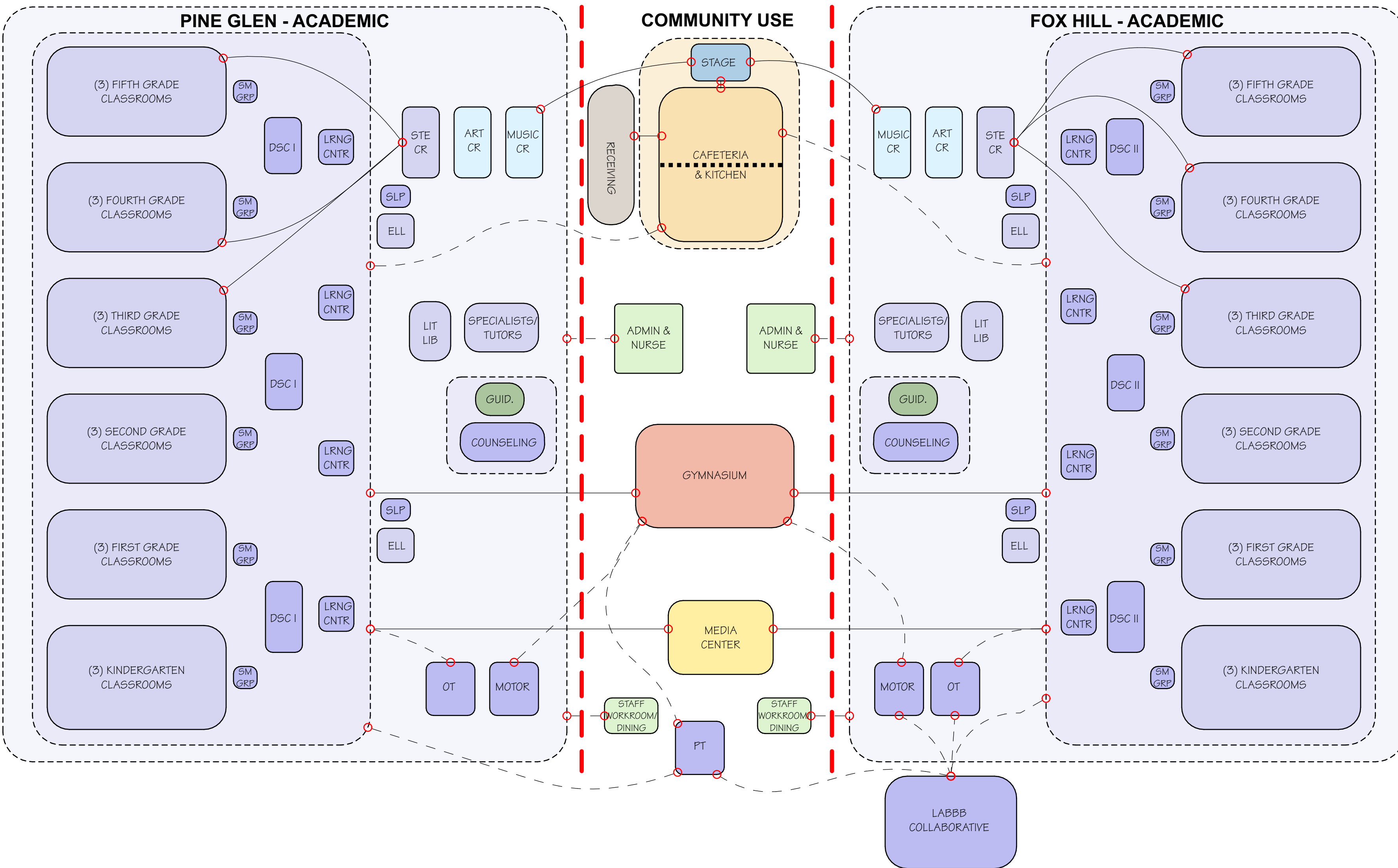
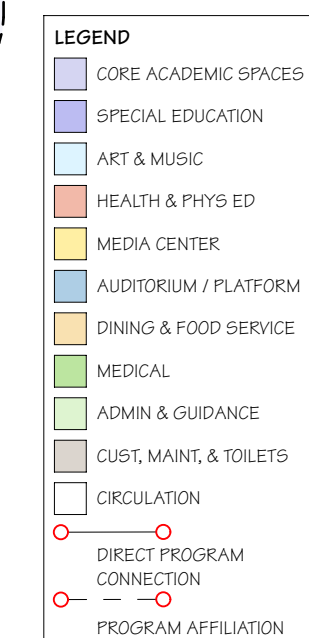
- Educational program and Space Summary
- Existing conditions report
- Establish design parameters
- Develop and evaluate alternatives



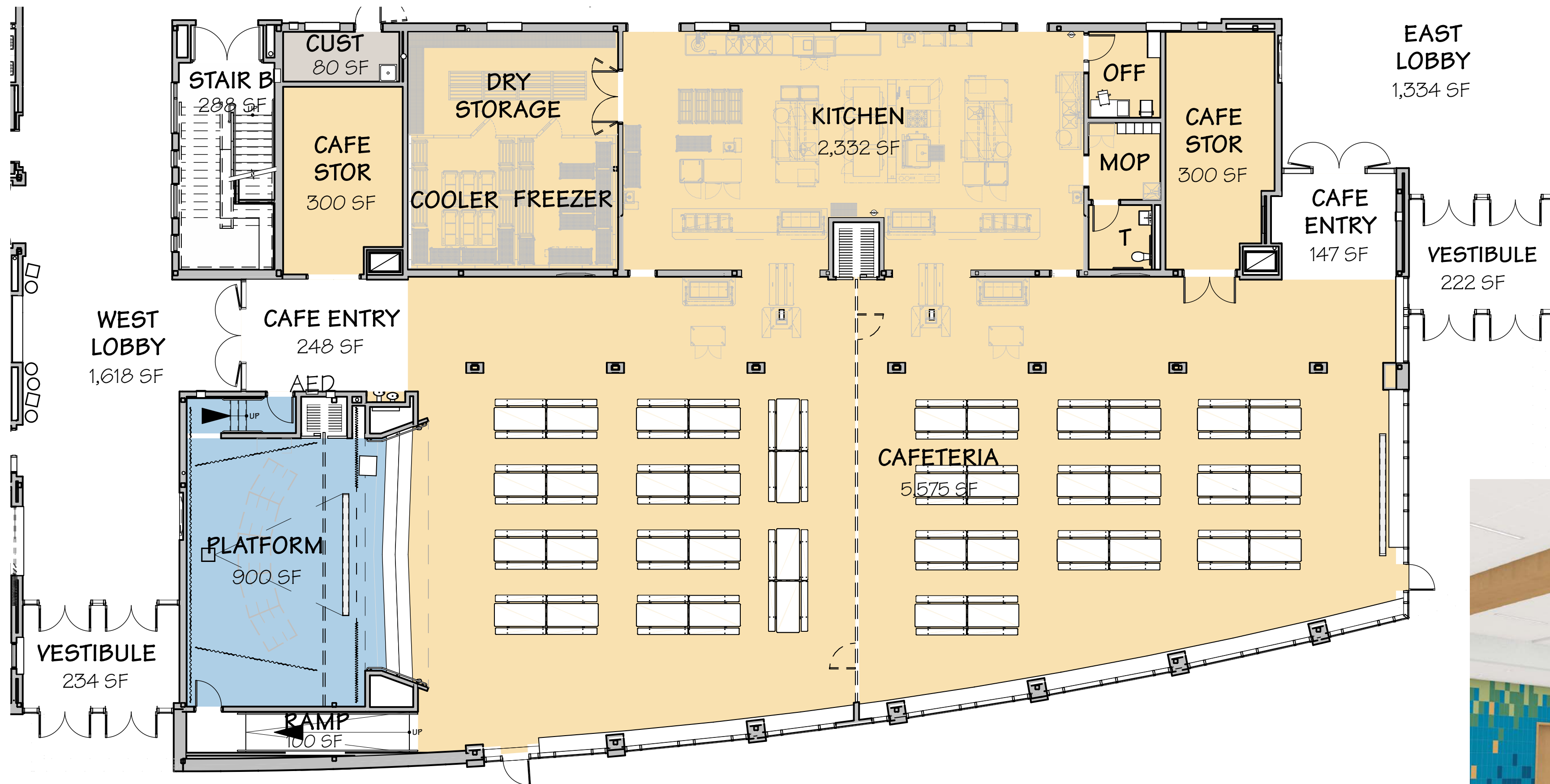
Alternative	Description	Location	# of students	# of classrooms	Solution
Option No. 1	Code Upgrade / Repair Only	Fox Hill School	325 Students	3 classrooms / grade	Fox Hill Only
Option No. 2	Addition / Renovation	Fox Hill School	325 Students	3 classrooms / grade	Fox Hill Only
Option No. 3	New Construction	Fox Hill School	325 Students	3 classrooms / grade	Fox Hill Only
Option No. 4	Code Upgrade / Repair Only	Fox Hill School	640 Students	2 x 3 classrooms /grade	Combined Fox Hill & Pine Glen
Option No. 5	Addition / Renovation	Fox Hill School	640 Students	2 x 3 classrooms /grade	Combined FHES + PGES building with independent schools
Option No. 6	New Construction	Fox Hill School	640 Students	2 x 3 classrooms /grade	Combined FHES + PGES building with independent schools
Option No. 7	Addition / Renovation	Pine Glen School	640 Students	2 x 3 classrooms /grade	Combined FHES + PGES building with independent schools
Option No. 8	New Construction	Pine Glen School	640 Students	2 x 3 classrooms /grade	Combined FHES + PGES building with independent schools

# Spatial Relationships | Fox Hill and Pine Glen School - 640 Students

- Two separate school entrances
- Gym, Cafetorium and Media Center sized for both schools to use independently and simultaneously
- Each school maintains autonomous scheduling
- Two Cafeterias with soundproof operable partition separating them
- Two independent playground areas
- Classrooms clustered by grade
- Integrated student support and Special Education
- Vertical and horizontal collaboration
- Zoned for after school / community use



# Spatial Relationships | Two Independent Cafeterias



- Two Cafeterias with soundproof operable partition can remain closed.
- Partition opens for large assemblies or evening community use
- One large kitchen to serve both schools
- Both schools can have after school programs simultaneously and independently



# Preliminary Space Summary | Update

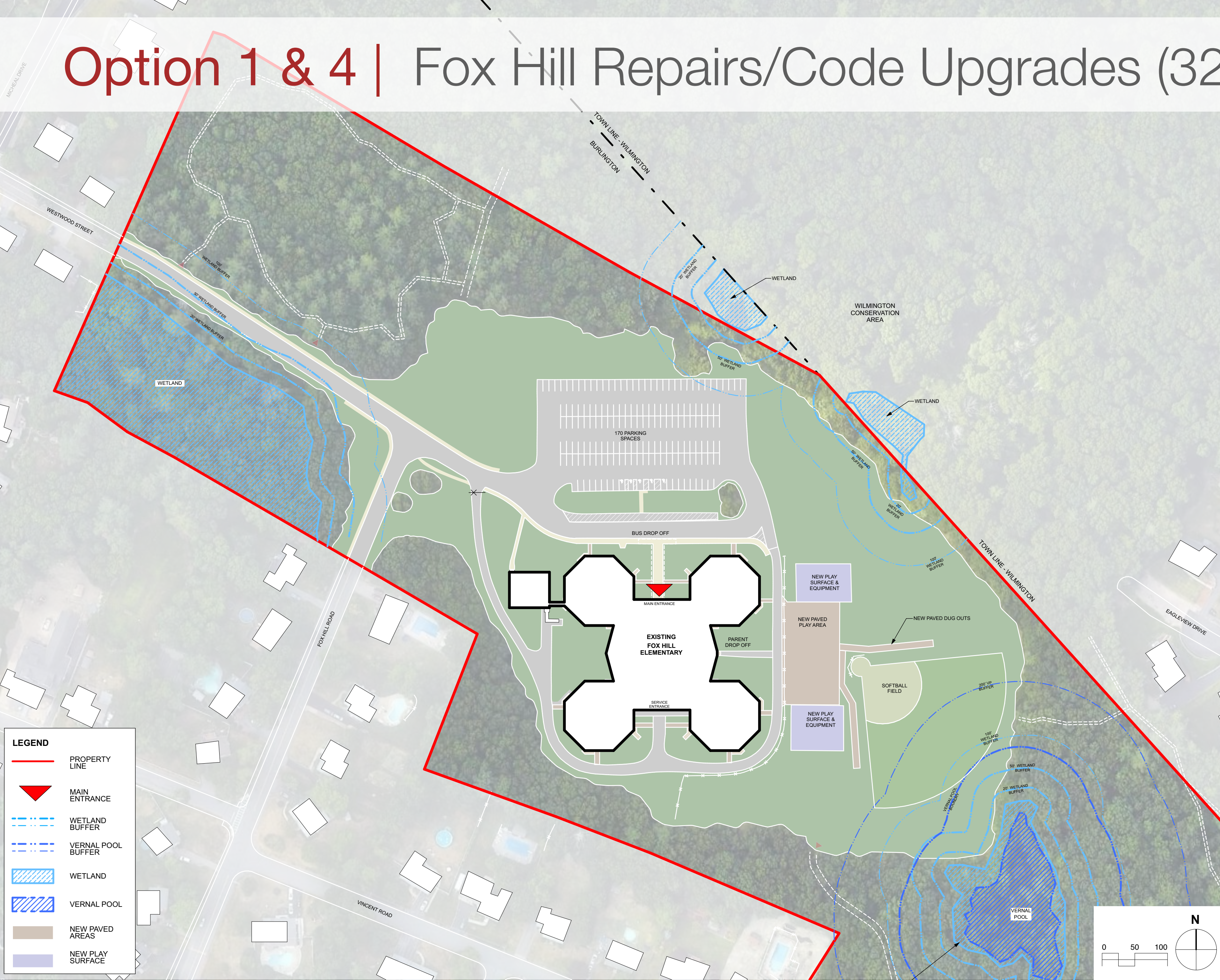
Program	Fox Hill Existing Conditions	Fox Hill Only @ MSBA Standards (325 Students)	Combined Fox Hill + Pine Glen @ MSBA Standards (640 Students)	General Comments
Core Academic	24,815 NFA	23,150 NFA	46,300 NFA	Includes general classrooms, STE classroom, ELL, literacy + math specialists, tutors
Special Ed.	4,485 NFA	15,225 NFA <sup>1</sup>	24,325 NFA <sup>2</sup>	Includes LABBB program, DSC, SPED support spaces (SLP, BCBA, Learning Centers, Small Group / Reading, OT/PT, Quiet Rooms, Team Chair, Psychologist, Adjustment Counselor, etc.)
Art/Music	2,160 NFA	2,500 NFA	5,000 NFA	
Health & PE	4,170 NFA	7,300 NFA	7,300 NFA	Supports full size high school basketball court with additional run-off area and bleachers
Media Center	1,365 NFA	2,130 NFA	3,550 NFA	
Dining (Cafe, Kitchen, Stage, Teacher Dining)	6,610 NFA	5,567 NFA	8,413 NFA	
Medical / Admin	1,790 NFA	2,855 NFA	6,150 NFA	
Custodial / Main	860 NFA	1,925 NFA	2,240 NFA	
Other	0 NFA	0 NFA	0 NFA	
Sub Total Program	46,255 NFA	60,652 NFA	103,278 NFA	
Total Gross Sq. Ft. (GSF) (Gross SF / NFA = 1.5)	64,400 GSF	90,978 GSF	154,917 GSF	

NFA = Net Floor Area  
GSF = Gross Square Foot

Notes:

1. Fox Hill Only includes LABBB program, DSC II, and support spaces
2. Combined Fox Hill + Pine Glen includes LABBB program, DSC I, DSC II and support spaces

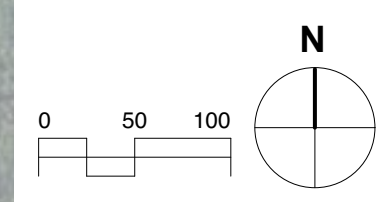
# Option 1 & 4 | Fox Hill Repairs/Code Upgrades (325/640 students)



**LEGEND**

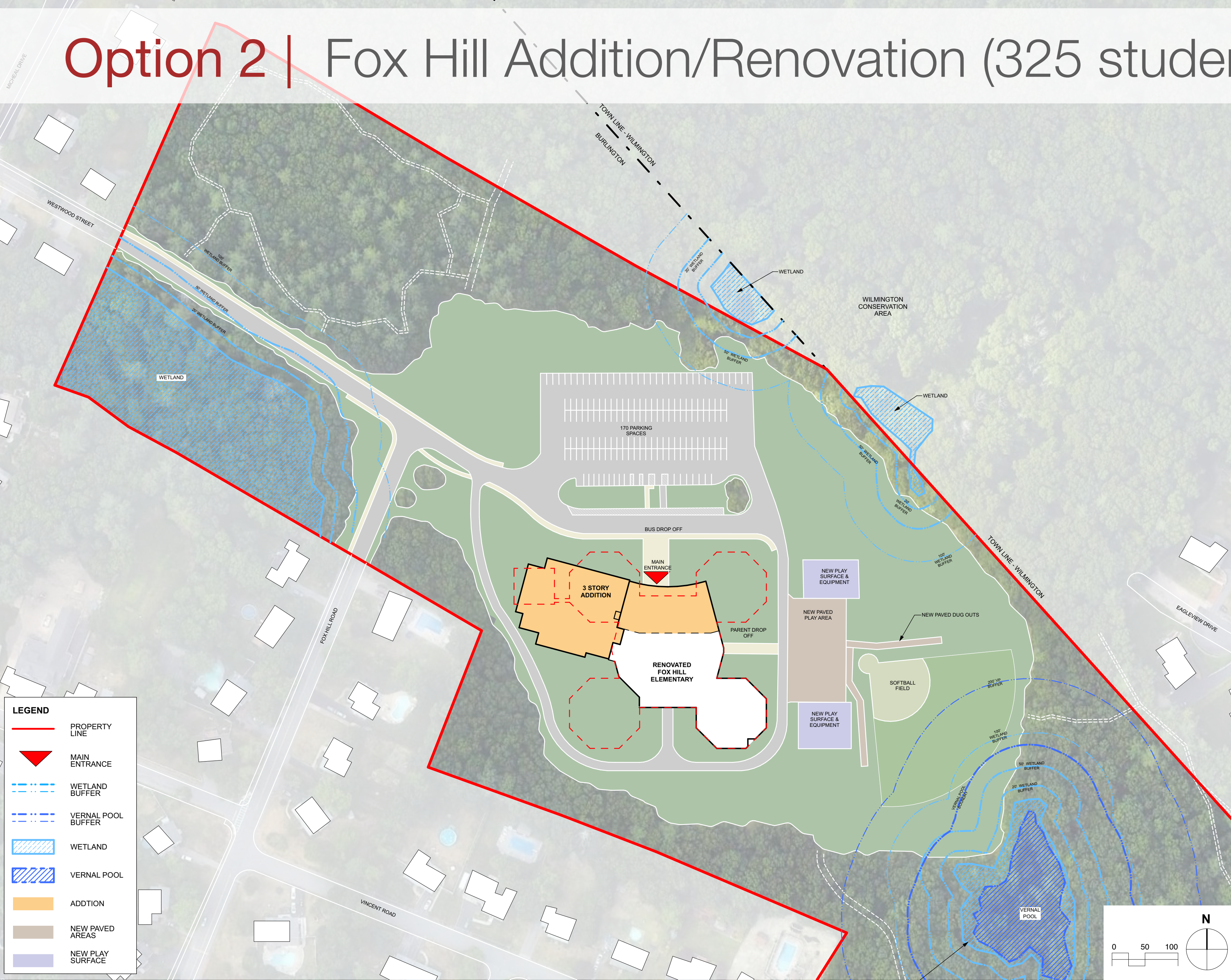
- PROPERTY LINE
- ▼ MAIN ENTRANCE
- - - WETLAND BUFFER
- - - VERNAL POOL BUFFER
- ▨ WETLAND
- ▨ VERNAL POOL
- NEW PAVED AREAS
- NEW PLAY SURFACE

- Existing single story building 64,400 GSF to remain
- Requires building to be vacated
- Upgrades include improvements for:
  - life-safety
  - building code compliance
  - accessibility compliance
  - mechanical, electrical, plumbing and fire protection systems replacement/installation
  - envelope replacement
- Does not meet educational program
- Traffic does not improve
- Pine Glen remains as is



# Option 2 | Fox Hill Addition/Renovation (325 students) | Conceptual

- Proposed building 101,000 GSF
- Existing building to be partially demolished
- Requires building to be vacated
- 25,000 GSF of existing building to be renovated, 76,000 GSF 3-story building addition
- Meets educational program
- Traffic does not improve
- Pine Glen remains as is

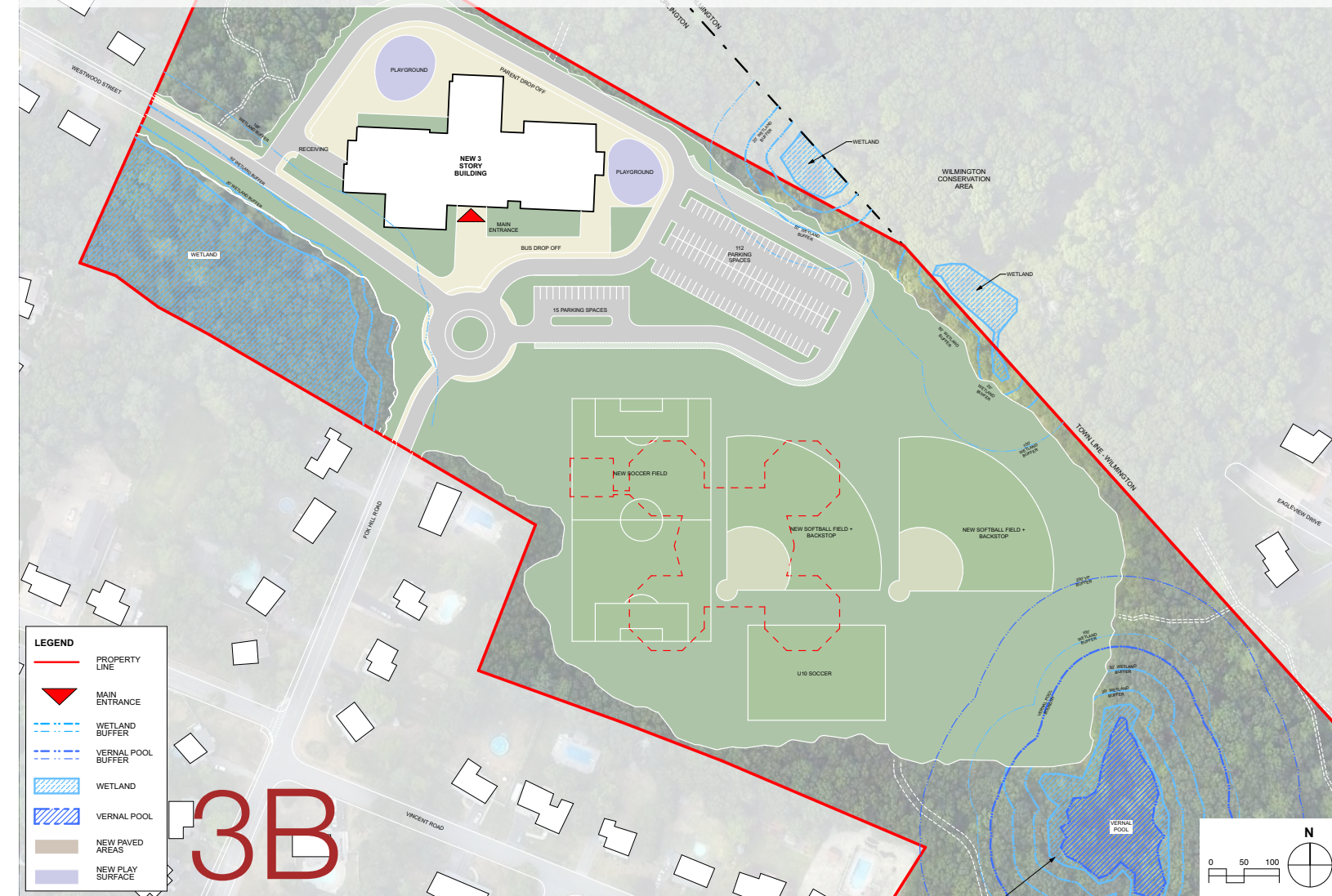




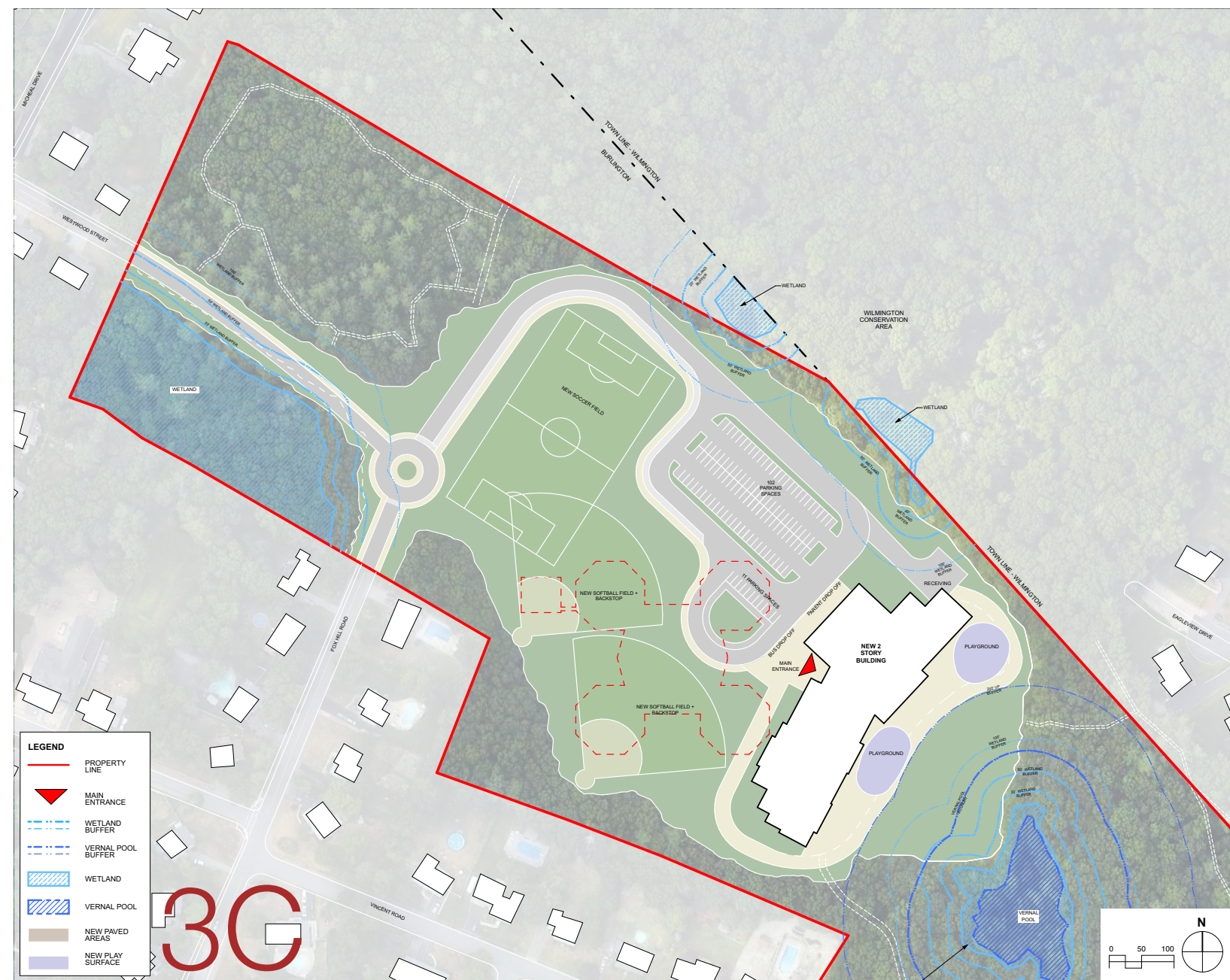
# Option 3 | Fox Hill New Construction (325 students) | Conceptual



3A  
Three-story building on eastern part of the Fox Hill site



3B  
Three-story building on northern part of the Fox Hill site



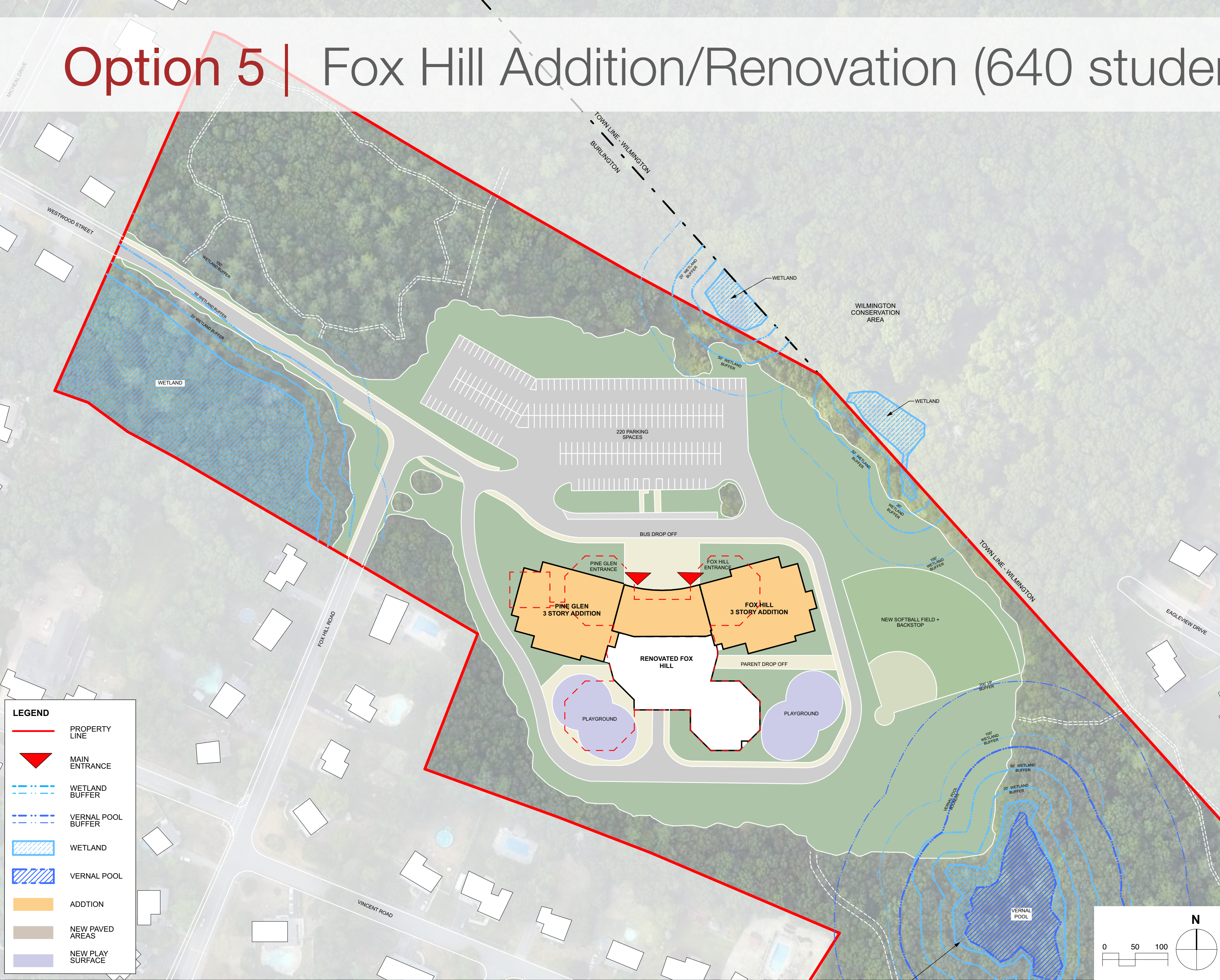
3C  
Two-story building on eastern part of the Fox Hill site



3D  
Two-story building on northern part of the Fox Hill site

- Options provide for 2 story or 3 story school
- Meets educational program
- All options provide improved traffic with full on-site queuing
- Existing school remains operational during construction
- Existing building to be demolished after new building is complete
- Pine Glen remains as is

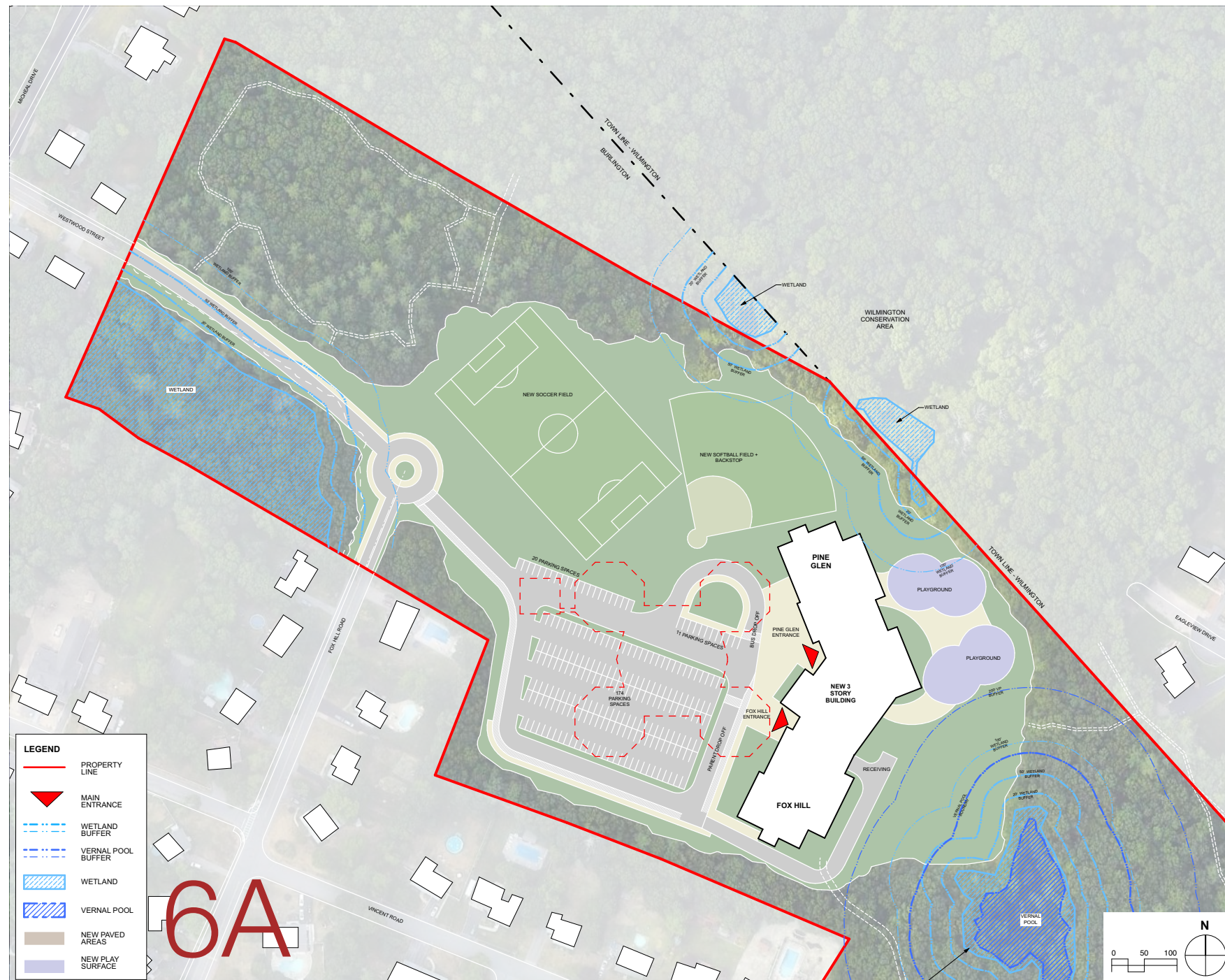
# Option 5 | Fox Hill Addition/Renovation (640 students) | Conceptual



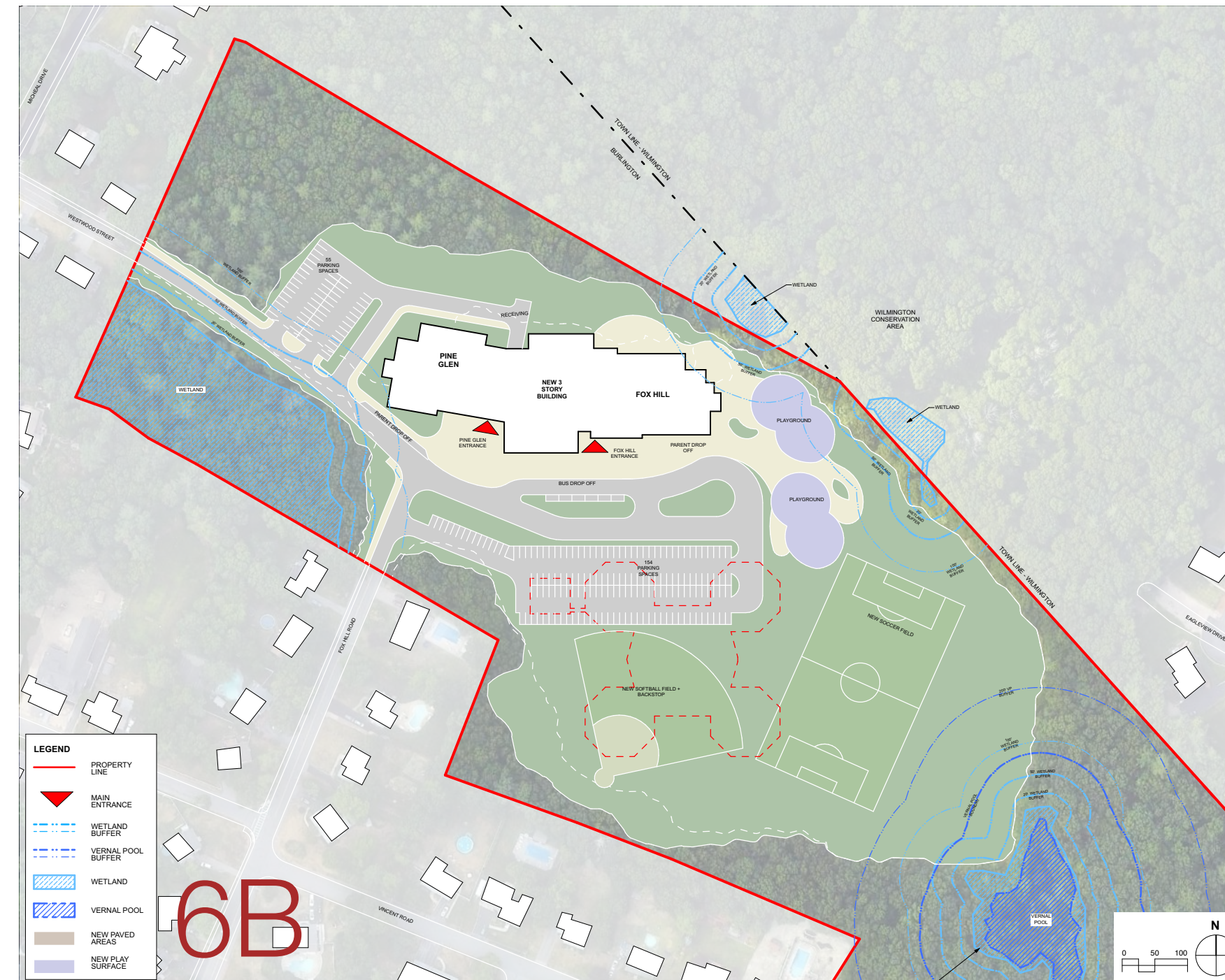
- Proposed 3-story addition
- Two independent schools with separate entrances
- Each school has dedicated playgrounds
- Existing building to be partially demolished
- Requires building to be vacated
- Meets educational program
- Traffic is worsened due to existing site circulation
- Pine Glen becomes available for alternative use such temporary student space during HS construction project, BECC, other

# Option 6 | Fox Hill New Construction (640 students) | Conceptual

- Proposed 3-story building. Two story option being studied.
- Two independent schools with separate entrances
- Each school has dedicated playgrounds
- Meets educational program
- Both options provide improved traffic with full on-site queuing
- Existing school remains operational during construction, demolished after completion
- Pine Glen becomes available for alternative use such temporary student space during HS construction project, BECC, other



6A  
Three-story building on eastern part of the Fox Hill site

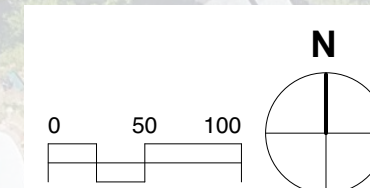


6B  
Three-story building on northern part of the Fox Hill site

# Option 7 | Pine Glen Addition/Renovation (640 students) | Conceptual



- Two independent schools with separate entrances
- Each school has dedicated playgrounds
- Does not require building to be vacated. Partial Demolition of existing school
- 3-story building addition
- Meets educational program
- Site extremely limited, cannot accommodate queuing and play fields
- Fox Hill becomes available for alternative use such temporary student space during HS construction project, BECC, other



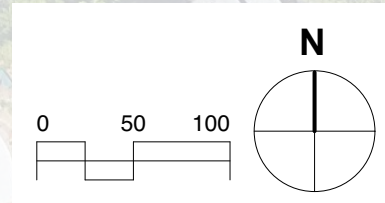
# Option 8 | Pine Glen New Construction (640 students) | Conceptual



- Proposed 3-story building (2-story not feasible)
- Two independent schools with separate entrances
- Each school has dedicated playgrounds
- Meets educational program
- Existing school remains operational during construction, demolished after completion
- Site extremely limited, cannot accommodate queuing and site amenities
- Fox Hill becomes available for alternative use such temporary student space during HS construction project, BECC, other

**LEGEND**

- PROPERTY LINE
- ▲ MAIN ENTRANCE
- - - WETLAND BUFFER
- ▨ WETLAND
- NEW PAVED AREAS
- NEW PLAY SURFACE



# Option 9 | Pine Glen New Construction (325 students) | Non MSBA | Conceptual



- Proposed 3-story building
- 2-story building option may be possible with further study
- Meets educational program
- Existing school remains operational during construction
- Existing building to be demolished after new building is complete
- Cost of project solely borne by Town of Burlington

# Preliminary Evaluation of Alternatives | Comparative Costs

		New 2 Story -325	New 3 Story - 640 at Fox Hill	New 3 Story - 640 at Pine Glen
ID	Description	3D	6A	8
CO	Total Construction	86,133,238	122,667,012	119,445,764
	Construction Cost per SF	\$ 946.52	\$ 791.40	\$ 778.66
SO	Total Soft Costs	16,272,987	22,339,047	21,904,178
	Soft Cost % (Less contingencies) compared to Total Construction	19%	18%	18%
	Total Construction and Soft Cost	102,406,225	145,006,059	141,349,942
RE	Assumed Reimbursement Rate	48.2%	48.2%	48.2%
	Ineligible Total	\$ 55,541,444	\$ 66,553,027	\$ 63,707,464
	Construction Contingency (5%)	\$ 4,306,662	\$ 6,133,351	\$ 5,972,288
	Owner's Contingency (Soft Costs @ 3%)	\$ 488,190	\$ 670,171	\$ 657,125
	<b>Total Project Cost</b>	<b>\$ 107,201,077</b>	<b>\$ 151,809,581</b>	<b>\$ 147,979,356</b>
	MSBA Estimated Max Reimbursement	\$ 23,218,771	\$ 38,710,355	\$ 38,296,206
	Total District share (\$1.5 already appropriated for F&S Study)	83,982,306	113,099,226	109,683,149
	Effective Reimbursement	22%	25%	26%
	Total Project \$psf	\$ 1,178	\$ 979	\$ 965

# Preliminary Evaluation of Alternatives | Cost Summary

<b>Burlington Elementary School Project</b>				
<b>Summary of PDP options</b>				
#	Description	Total Project Cost	District Share	
1	Base Repair	\$ 64,000,000	\$ 39,000,000	
2	Renovation Addition - 325	\$ 118,000,000	\$ 85,000,000	
3A	New 3 Story - 325	\$ 102,000,000	\$ 79,000,000	
3B	New 3 Story - 325	\$ 103,000,000	\$ 79,000,000	
3C	New 2 Story - 325	\$ 107,000,000	\$ 82,000,000	
3D	New 2 Story -325	\$ 107,000,000	\$ 84,000,000	
4	Repair only 640	\$ 65,000,000	\$ 40,000,000	
5	Renovation Addition - 640	\$ 163,000,000	\$ 116,000,000	
6A	New 3 Story - 640 at Fox Hill	\$ 152,000,000	\$ 113,000,000	
6B	New 3 Story - 640 at Fox Hill	\$ 152,000,000	\$ 113,000,000	
7	Renovation Addition - 640 at Pine Glen	\$ 151,000,000	\$ 108,000,000	
8	New 3 Story - 640 at Pine Glen	\$ 148,000,000	\$ 110,000,000	
9	Pine Glen only New 3 Story 325	\$ 94,000,000	\$ 94,000,000	
	<b>Overall summary</b>	<b>Total Project cost</b>	<b>District share</b>	<b>Tax Impact (Median Taxpayer)</b>
	Fox Hill Only 325	\$ 107,000,000	\$ 84,000,000	\$260
	Combined school 640	\$ 152,000,000	\$ 113,000,000	\$360
	New Fox Hill 325 (MSBA) + Pine Glen 325 (non-msba)	\$ 201,000,000	\$ 178,000,000	\$560
	New High School	\$300,000,000 - \$400,000,000	\$300,000,000 - \$400,000,000	\$960 - \$1,300



# Preliminary Criteria Matrix | Priorities and Criteria

Fox Hill Elementary School - Burlington, MA

Options and Evaluation Matrix

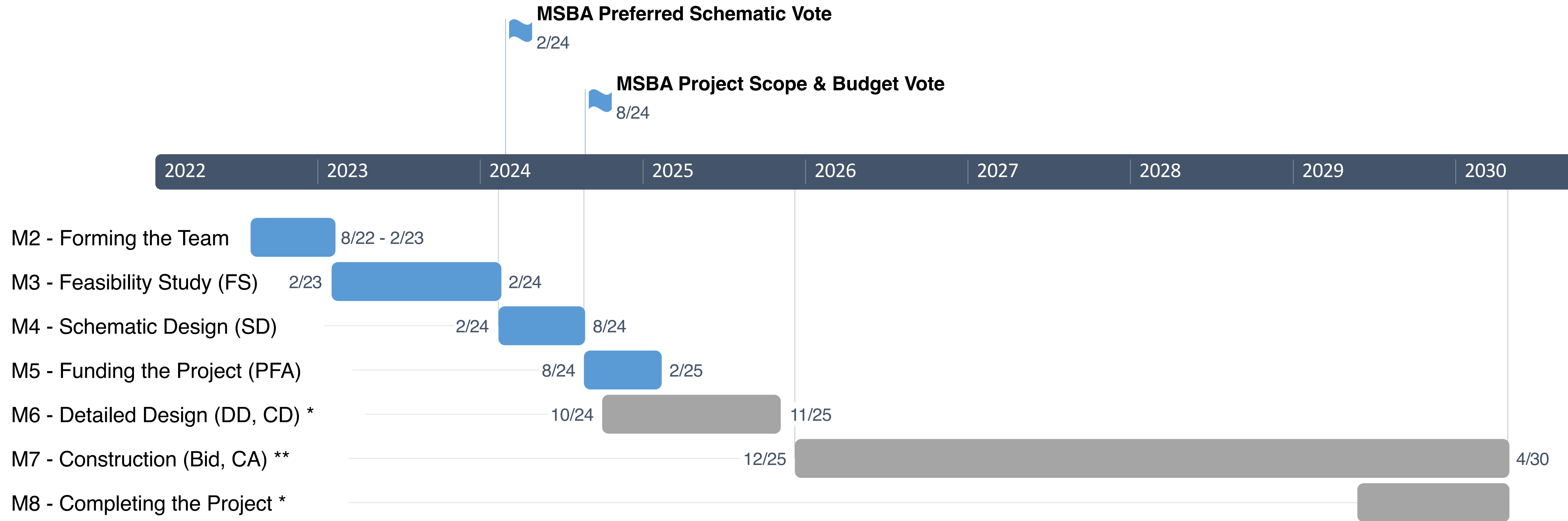
● Favorable

⊙ Neutral

○ Unfavorable

Evaluation criteria based upon priorities	Proposed Concepts								
	Option 1 Fox Hill School Only (325 Students)	Option 2 Fox Hill School Only (325 Students)	Option 3 Fox Hill School Only (325 Students)	Option 4 Fox Hill School Site (640 Students)	Option 5 Fox Hill School Site (640 Students)	Option 6 Fox Hill School Site (640 Students)	Option 7 Pine Glen School Site (640 Students)	Option 8 Pine Glen School Site (640 Students)	
	Code Upgrades + Repairs no addition	Renovation + Addition	Full demo + new construction	Code Upgrades + Repairs no addition	Renovation + addition	Full demo + new construction	Renovation + addition	Full demo + new construction	
<b>Concept Facts</b>									
1	Size of site (acres)	37.90 ac	37.90 ac	37.90 ac	37.90 ac	37.90 ac	37.90 ac	11.80 ac.	11.80 ac.
2	Usable size of site (acres)	17.90 ac	17.90 ac	17.90 ac	17.90 ac	17.90 ac	17.90 ac	9.6 ac.	9.6 ac.
3	Site environmental (wetlands, etc)	20.00 ac	20.00 ac	20.00 ac	20.00 ac	20.00 ac	20.00 ac	2.20 ac	2.20 ac
4	Classroom count	18	18	18	18	36	36	36	36
5	Building gross square feet (GSF)	64,400 SF	100,000 SF	92,000 SF	64,400 SF	160,000 SF	152,000 SF	160,000 SF	152,000 SF
6	Net Zero Capability								
<b>Equity to Other Elementary Schools</b>									
<b>Cost and Schedule</b>									
<b>Educational</b>									
<b>Building</b>									
<b>Site</b>									
<b>Sustainability</b>									
<b>Construction impacts / cost</b>									
<b>Operational costs</b>									
<b>Community</b>									

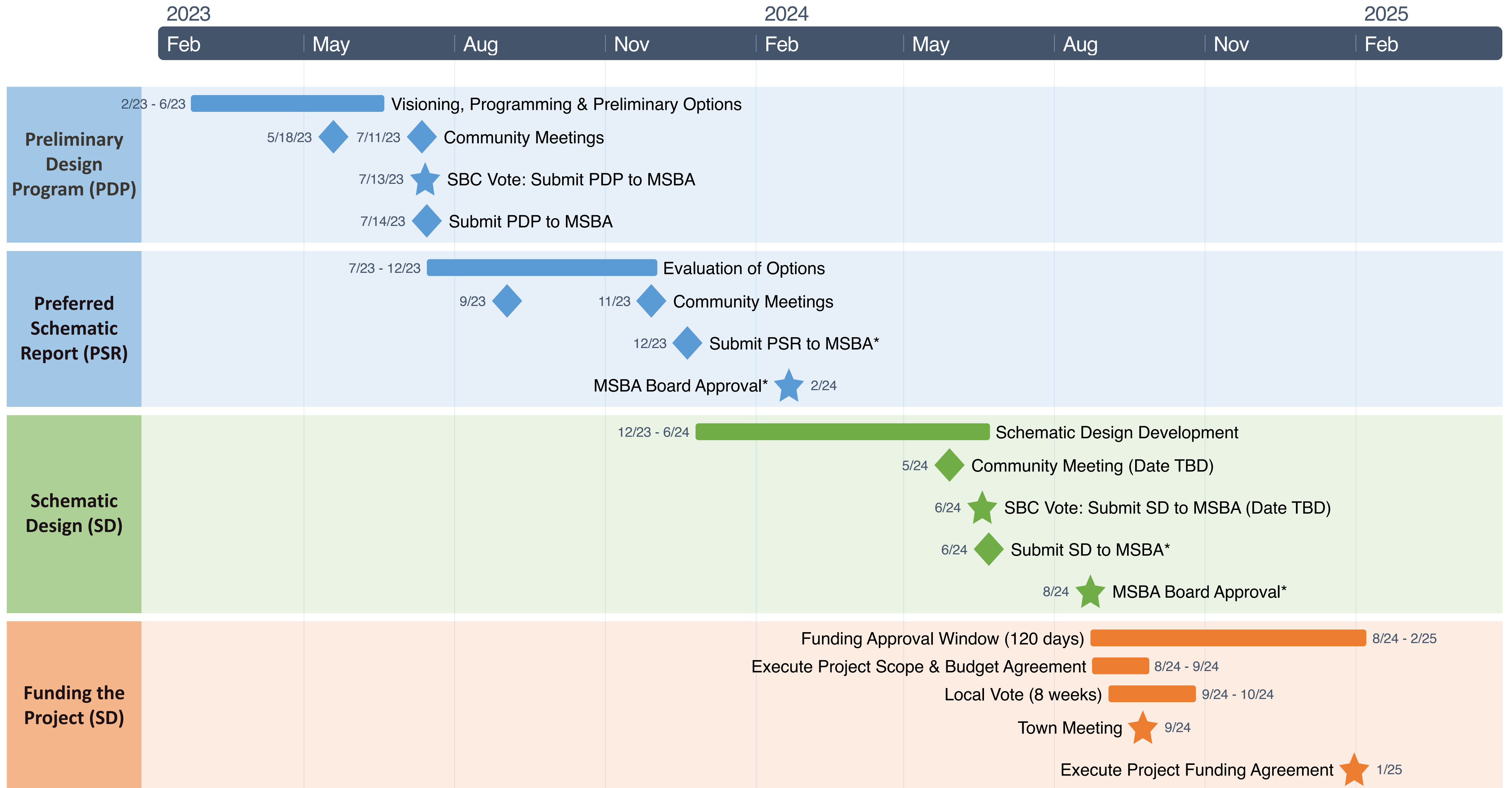
# Project Schedule | Overall Project Timeline



***\* All dates are preliminary. Durations/dates for Modules 6 through 8 are subject to change depending on the preferred solution identified as a result of the preferred option/feasibility study process.***

***\*\* Module 7 duration as indicated includes the range of all options currently being studied in the PDP/Feasibility Phase (vary, approx. 24 – 48 months)***

# Project Schedule | Feasibility Phase Timeline



# Key Dates

- Preliminary Design Program (PDP) Submission July 14, 2023
- Burlington Town Forum at BHS Auditorium September 2023
- Preferred Schematic Report (PSR) July through December 2023
- MSBA Board Meeting to proceed into Schematic Design February 2024
- Schematic Design December 2023 through June 2024
- MSBA Board Meeting to proceed with local funding August 2024
- Burlington Town Meeting Vote for Project Approval September 23, 2024

## Stay Connected

<https://www.foxhillbuildingproject.com/>



# Project FAQ's

- **How was the project team formed?**

- Following the Massachusetts School Building Authority (“MSBA”) procurement process:
  - Owners Project Manager (“OPM”) Selection Committee formed with authorization from SBC and MSBA
  - Solicited proposals from qualified firms, shortlisted, and interviewed shortlisted firms
  - OPM Selection Committee selected most qualified firm and made recommendation to MSBA
  - MSBA reviews and makes recommendation to owner to enter contract
- Designer selection followed the MSBA Designer Selection Panel (“DSP”) process:
  - DSP is comprised of 13 appointed members and 3 representatives of the local town or school district (Superintendent, School Committee member, Chief Executive Officer)
  - DSP and 3 Town representatives solicited proposals, shortlisted proposals, interviewed shortlisted firms
  - DSP and 3 Town representatives provided recommendation to the Town to enter contract

For more information visit [Module 2 – Forming the Project Team | Massachusetts School Building Authority](https://massschoolbuildings.org)  
([massschoolbuildings.org](https://massschoolbuildings.org))

# Project FAQ's

- **What about our 4-school model?**

- If the 325 student Fox Hill School option is chosen, Pine Glen School would remain open and in operation as a K-5 elementary school
- If the 640 student option (two independent schools within one building) at the Fox Hill site is chosen, there will be 4 separate elementary schools, maintaining the 4-school model
- MSBA will not provide reimbursement for a new Pine Glen School
- If the Town chooses to renovate or rebuild Pine Glen, 100% of the cost is on the Town

- **What happens to Pine Glen if we build the 640-student school at Fox Hill?**

- Pine Glen would remain a school department building and would be used as swing space for the high school building project in the short term
- Pine Glen would provide flexibility for future needs and other options such as if Universal Pre-K becomes a new state requirement

# Project FAQ's

- **Traffic? How will these projects affect traffic? What can I do now about traffic and unsafe conditions?**
  - All new school options will provide for emergency vehicle access and improve traffic queuing onsite and alleviate traffic queuing on Fox Hill Road and Westwood Street
  - Safe Routes to School work is ongoing this summer to alleviate current traffic issues
  - Vincent Road, Hart Street and Donald Road are currently on the priority list for new sidewalks
  - Contact the Town for any immediate or future concerns regarding traffic issues on your street
- **Are there any changes happening now at the Fox Hill site? Are they cutting trees?**
  - Subconsultants have been onsite to test the soils and identify wetlands only
  - No trees are being cut or have been identified to be cut
  - No physical alteration of the Fox Hill site has been planned for many years knowing that the project was potentially coming
  - No additional driveways, entrance or exits are being planned (for example, nothing will change on Vincent Road)



Community  
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# BURLINGTON ELEMENTARY SCHOOL

Burlington, MA



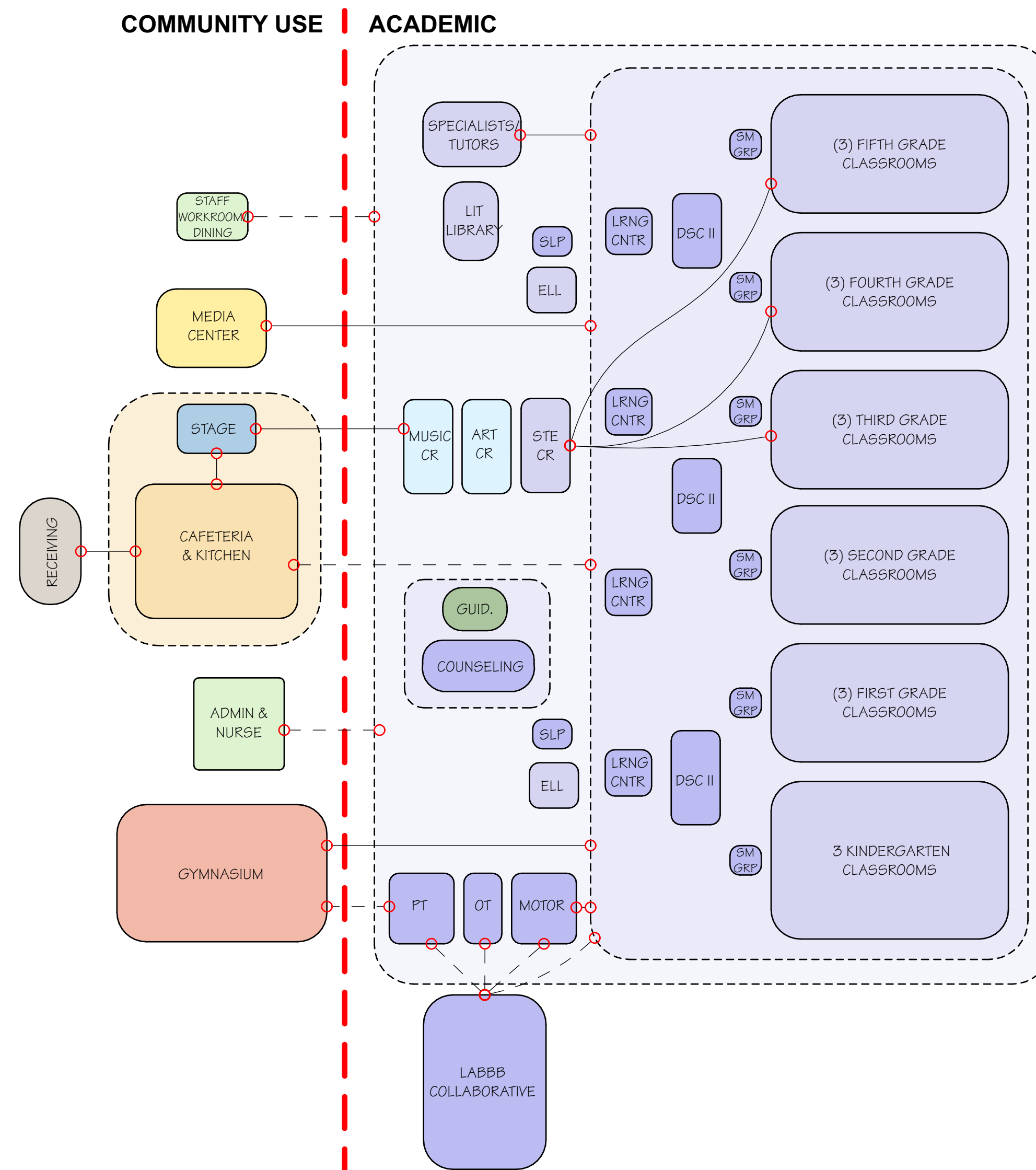
# Preliminary Evaluation of Alternatives | Comparative Costs

## Draft - 3011 overview analysis - Burlington PDP Potential Total Project Budget

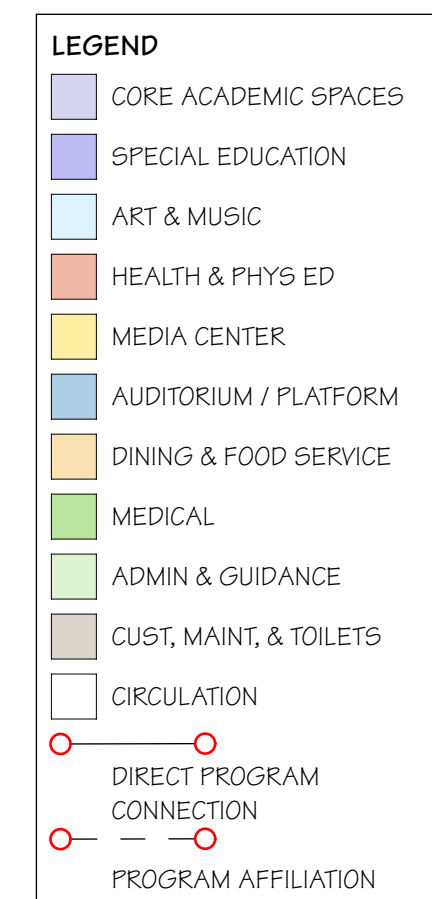
Updated 7/6/23 based on AMF 6/21 info

		Base Repair	Renovation Addition - 325	New 3 Story - 325	New 3 Story - 325	New 2 Story - 325	New 2 Story - 325	Repair only 640	Renovation Addition - 640	New 3 Story - 640 at Fox Hill	New 3 Story - 640 at Fox Hill	Renovation Addition - 640 at Pine Glen	New 3 Story - 640 at Pine Glen	Pine Glen only New 3 Story 325
ID	Description	1	2	3A	3B	3C	3D	4	5	6A	6B	7	8	9
CO	Total Construction	39,394,566	85,253,802	81,736,871	82,292,495	85,823,548	86,133,238	39,394,566	121,362,971	122,667,012	122,448,619	121,852,374	119,445,764	74,746,380
	Construction Cost per SF	\$ 611.72	\$ 840.77	\$ 898.21	\$ 904.31	\$ 943.12	\$ 946.52	\$ 611.72	\$ 777.97	\$ 791.40	\$ 789.99	\$ 743.00	\$ 778.66	\$ 900.56
SO	Total Soft Costs	21,563,266	27,754,263	15,679,478	15,754,487	16,231,179	16,272,987	22,997,266	34,063,001	22,339,047	22,309,564	22,229,070	21,904,178	14,616,761
	Soft Cost % (Less contingencies) compared to Total Construction	55%	33%	19%	19%	19%	19%	58%	28%	18%	18%	18%	18%	20%
	Total Construction and Soft Cost	60,957,832	113,008,065	97,416,349	98,046,982	102,054,727	102,406,225	62,391,832	155,425,972	145,006,059	144,758,183	144,081,444	141,349,942	89,363,141
RE	Assumed Reimbursement Rate	53.2%	50.7%	48.2%	48.2%	48.2%	48.2%	53.2%	50.7%	48.2%	48.2%	50.7%	48.2%	0.0%
	Ineligible Total	\$ 14,990,187	\$ 49,143,569	\$ 50,553,102	\$ 51,183,532	\$ 52,177,147	\$ 55,541,444	\$ 15,518,187	\$ 64,579,845	\$ 66,553,027	\$ 66,305,187	\$ 61,085,174	\$ 63,707,464	\$ 45,825,886
	Construction Contingency (5%)	\$ 1,969,728	\$ 4,262,690	\$ 4,086,844	\$ 4,114,625	\$ 4,291,177	\$ 4,306,662	\$ 1,969,728	\$ 6,068,149	\$ 6,133,351	\$ 6,122,431	\$ 6,092,619	\$ 5,972,288	\$ 3,737,319
	Owner's Contingency (Soft Costs @ 3%)	\$ 646,898	\$ 832,628	\$ 470,384	\$ 472,635	\$ 486,935	\$ 488,190	\$ 689,918	\$ 1,021,890	\$ 670,171	\$ 669,287	\$ 666,872	\$ 657,125	\$ 438,503
	Total Project Cost	\$ 63,574,459	\$ 118,103,383	\$ 101,973,576	\$ 102,634,241	\$ 106,832,840	\$ 107,201,077	\$ 65,051,479	\$ 162,516,010	\$ 151,809,581	\$ 151,549,900	\$ 150,840,935	\$ 147,979,356	\$ 93,538,963
	MSBA Estimated Max Reimbursement	\$ 24,988,126	\$ 33,038,255	\$ 23,186,232	\$ 23,190,349	\$ 24,669,303	\$ 23,218,771	\$ 25,470,299	\$ 46,993,537	\$ 38,710,355	\$ 38,708,757	\$ 43,015,814	\$ 38,296,206	
	Total District share (\$1.5 already appropriated for F&S Study)	38,586,333	85,065,128	78,787,344	79,443,892	82,163,537	83,982,306	39,581,180	115,522,473	113,099,226	112,841,143	107,825,122	109,683,149	93,538,963
	Effective Reimbursement	39%	28%	23%	23%	23%	22%	39%	29%	25%	26%	29%	26%	0%
	Total Project \$psf	\$ 987	\$ 1,165	\$ 1,121	\$ 1,128	\$ 1,174	\$ 1,178	\$ 1,010	\$ 1,042	\$ 979	\$ 978	\$ 920	\$ 965	\$ 1,127

# Spatial Relationships | Fox Hill School Only - 325 Students



- Create optimum adjacencies between programs
- Classrooms clustered by grade
- Integrated student support
- Integrated Special Education
- Vertical and horizontal collaboration
- Zoned for after school / community use



# Preliminary Space Summary | Update

Program	Fox Hill Existing Conditions	Fox Hill Only @ MSBA Standards (325 Students)	Fox Hill Only (325 Students) Exceeds MSBA Guidelines	Combined Fox Hill + Pine Glen @ MSBA Standards (640 Students)	Combined Fox Hill + Pine Glen (640 Students) Exceeds MSBA Guidelines	General Comments
Core Academic	24,815 NFA	23,150 NFA	Anticipate MSBA to accept space needs	46,300 NFA	Anticipate MSBA to accept space needs	Includes general classrooms, STE classroom, ELL, literacy + math specialists, tutors
Special Ed.	4,485 NFA	15,225 NFA <sup>1</sup>	Anticipate MSBA to accept space needs	24,325 NFA <sup>2</sup>	Anticipate MSBA to accept space needs	Includes LABBB program, DSC, SPED support spaces (SLP, BCBA, Learning Centers, Small Group / Reading, OT/PT, Quiet Rooms, Team Chair, Psychologist, Adjustment Counselor, etc.)
Art/Music	2,160 NFA	2,500 NFA	In line with MSBA guidelines	5,000 NFA	In line with MSBA guidelines	
Health & PE	4,170 NFA	7,300 NFA	1,000 NFA above guidelines	7,300 NFA	1,000 NFA above guidelines	Supports full size high school basketball court with additional run-off area and bleachers
Media Center	1,365 NFA	2,130 NFA	In line with MSBA guidelines	3,550 NFA	In line with MSBA guidelines	
Dining (Cafe, Kitchen, Stage, Teacher Dining)	6,610 NFA	5,567 NFA	In line with MSBA guidelines	8,413 NFA	In line with MSBA guidelines	
Medical / Admin	1,790 NFA	2,855 NFA	306 NFA above guidelines. Larger nurse bathroom for Hoyer lift, additional SEL space in admin	6,150 NFA	2,737 NFA above guidelines. Larger nurse bathroom for Hoyer lift, additional space in admin to support two administrations	
Custodial / Main	860 NFA	1,925 NFA	In line with MSBA guidelines	2,240 NFA	In line with MSBA guidelines	
Other	0 NFA	0 NFA		0 NFA		
Sub Total Program	46,255 NFA	60,652 NFA	1,306 NFA	103,278 NFA	3,735 NFA	
Total Gross Sq. Ft. (GSF) (Gross SF / NFA = 1.5)	64,400 GSF	90,978 GSF	1,959 NFA	154,917 GSF	5,603 NFA	

# Preliminary Design Program | Enrollment Agreement

MSBA District Enrollment Forecast — Average 2023-2032

Year	K	1	2	3	4	5	Total
Avg. thru 2032	262	265	268	261	268	268	1,592



## Option 1 | 325 Student Enrollment

School	# of Clrms	18 Stu/Clrm	Total Capacity
Memorial ES	23	18	414
Pine Glen ES	17	18	306
Francis Wyman	30	18	540
Total Capacity	70		1,260
Projected Enrollment			1,590
Fox Hill ES	18	18	325

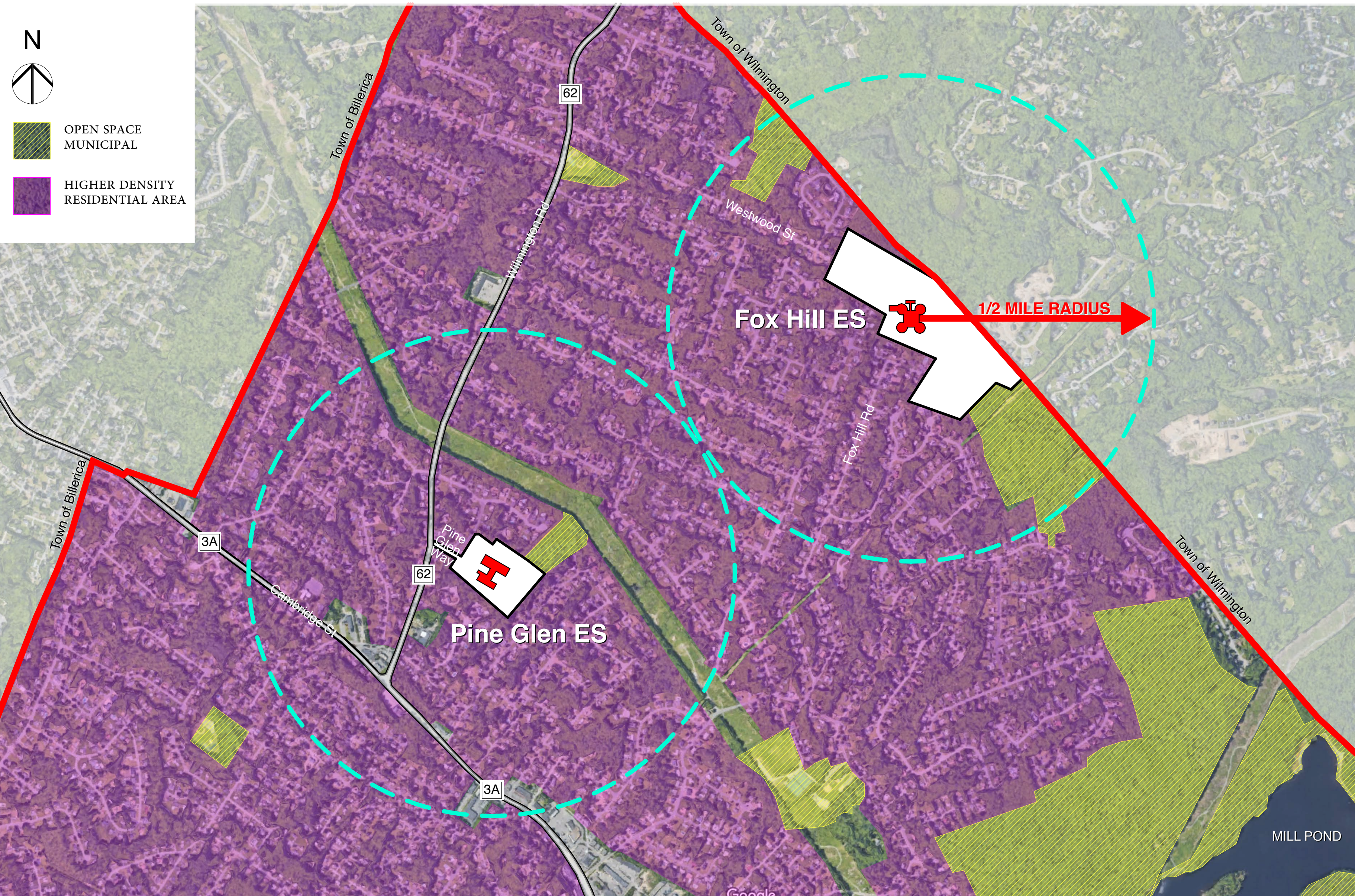
## Option 2 | 640 Student Enrollment

School	# of Clrms	18 Stu/Clrm	Total Capacity
Memorial ES	23	18	414
Francis Wyman	30	18	540
Total Capacity	53		954
Projected Enrollment			1,590
Fox Hill /Pine Glen ES	36	18	648

	K	1	2	3	4	5	Total
# Students (Average)	54	54	54	54	54	55	325
Average # students/class	18	18	18	18	18	18	
# of classrooms	3	3	3	3	3	3	18
Total Classrooms / Grade	3	3	3	3	3	3	18

	K	1	2	3	4	5	Total
# Students (Average)	106	106	107	107	107	107	640
Average # students/class	18	18	18	18	18	18	
# of classrooms	5.89	5.89	5.94	5.94	5.94	5.94	35.56
Total Classrooms / Grade	6	6	6	6	6	6	36

# Burlington Elementary Schools | Considerations



- Elementary school equity
- Enrollment considerations
- Future flexibility
- Community support

# Existing Conditions | Fox Hill Traffic Study - Arrival

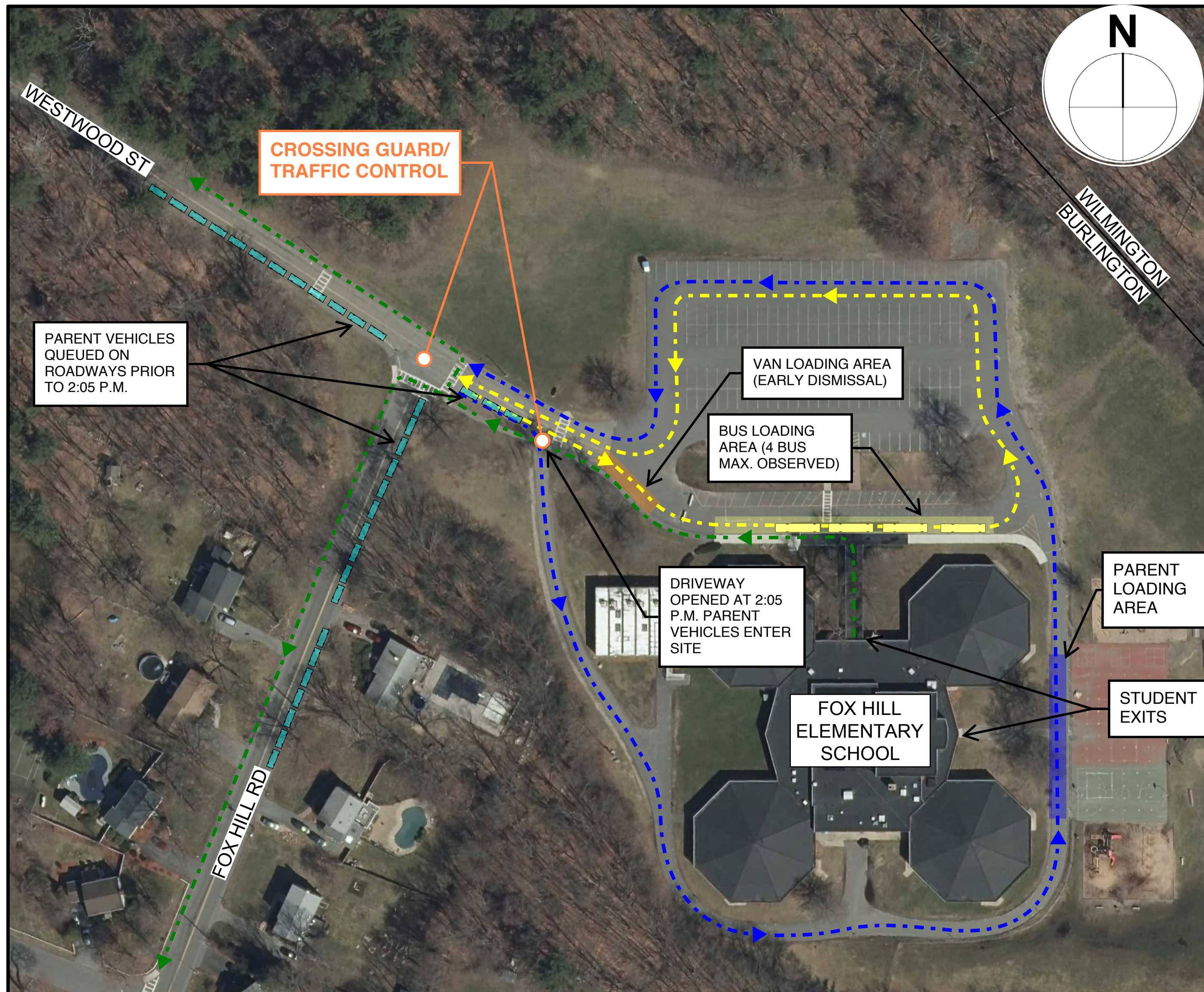


- Parents drop off at loop road surrounding the school on the south side - there were no cars observed to be queuing beyond the loop at arrival times
- Parent drop off positions the driver side adjacent to the building entrance. It is preferable to have the passenger side of the vehicle adjacent to the building entrance
- There are no accessible sidewalk ramps on north side of crosswalk between Westwood Street and Fox Hill Road
- Accessible sidewalk ramps at intersections do not have detectable warning plates
- Signing and striping at multiple locations are faded and difficult to read/illegible
- Signage requires updating

**LEGEND**

- ← - - - School Bus Van Loop
- ← - - - Parent Drop-Off Loop
- ← - - - Walker/Biker Route

# Existing Conditions | Fox Hill Traffic Study - Dismissal



- Vehicle queues were observed along Westwood Street and Fox Hill Road prior to opening of gate to the drop off /pick up loop. Neither road has shoulders to allow vehicles to pull off the travel lane
- Parents were observed arriving at the school at least 30 minutes before dismissal
- The gate (chain) is typically not opened until 5 minutes prior to dismissal so that children using the playground can safely cross the driveway to head back to the school
- Once the gate was opened, parent queuing did not extend beyond the drop off/pick up loop

**LEGEND**

- ← School Bus Van Loop
- ← Parent Drop-Off Loop
- ← Walker/Biker Route
- ← Parent vehicle queue prior to 2:04 pm