

Bristol Warren Regional School District RIDE Necessity of School Construction Stage II



PERKINS — EASTMAN

BUILDING COMMITTEE | 08.10.2023



I.	OPEN	MEETING
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- П. **PUBLIC COMMENTS**
- III. INTRODUCTIONS

IV. **DISCUSSION AND/OR POSSIBLE ACTION**

- B. RIDE Stage II Progress Update
 - 1. General Updates

 - 3. Community Outreach
- C. Next Steps / Key Dates

ADJOURNMENT I.

A. Approval of 7/27/23 Meeting Minutes - VOTE a) RIDE Check-in 2. Development of Preferred Solution(s) a) HS Design Updates b) ES/MS Updates a) Warren Concert Series b) Hope and Main School Yard Markets c) Bristol Town Center event (August) d) MHHS August 23rd Forum (Class of 2027 Welcoming) 1. Tours of Recently Built Schools

RIDE PROCESS OVERVIEW

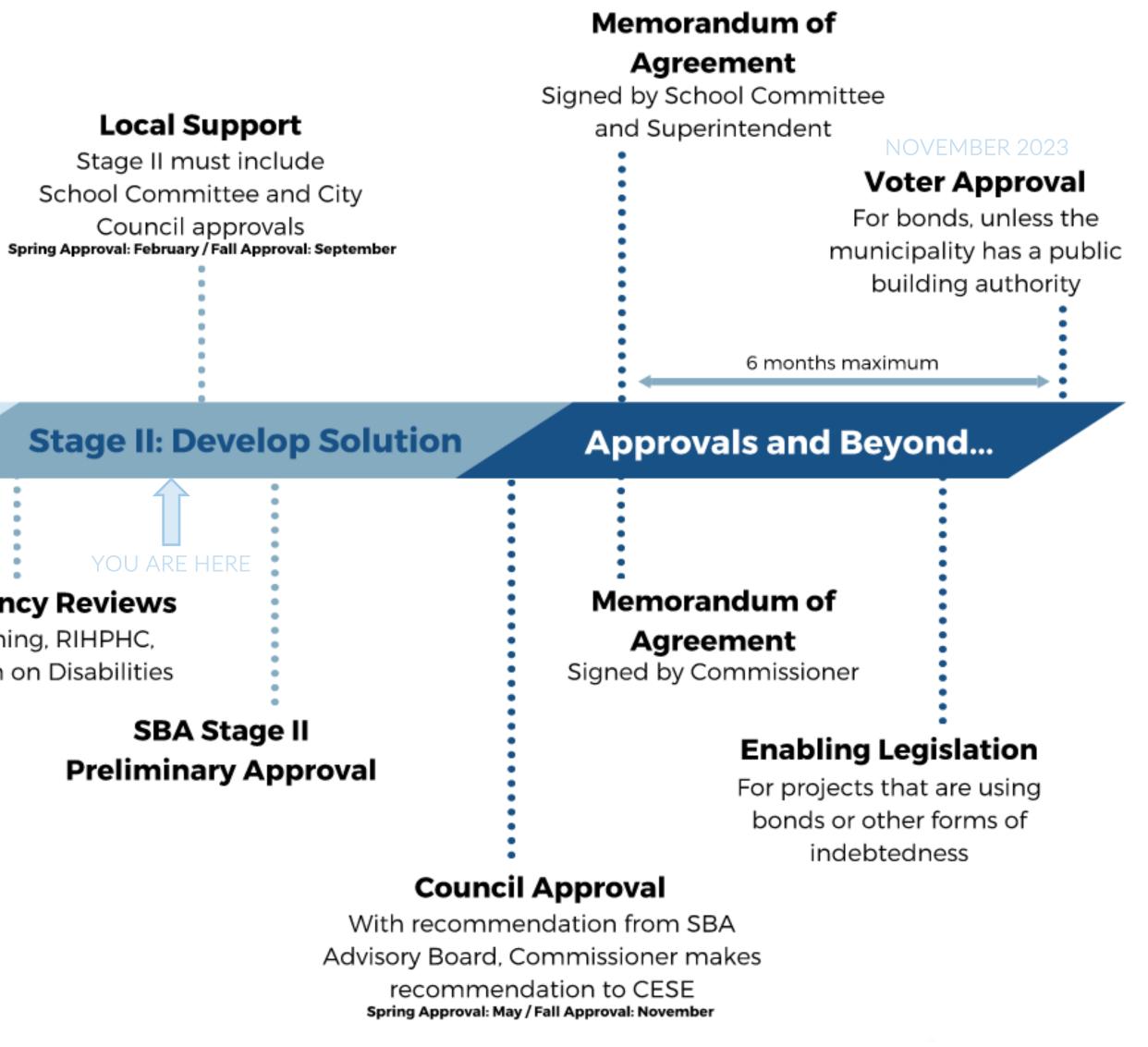
Identify your team

Pull together a School Building Committee, composed of city and school representatives

Letter of Intent

Send a statement of interest signed by Superintendent, School Committee, and municipal representative Spring Approval: August / Fall Approval: January

Stage I: Identify Need



State Agency Reviews

DOA Planning, RIHPHC, Commission on Disabilities

SBA Stage I

Preliminary Approval

Authorization to move

forward with Stage II Spring Approval: September / Fall Approval: February



RIDE PROCESS OVERVIEW

Schematic Design Review

including engineering

Stage III must include the project's major components,

Finalize the development of the project

Design Development Review

Provide greater detail, including an updated project budget

Stage III: Design Reviews

Construction On the 12th of every **Housing Aid Documents Review** month, OPMs provide a LEAs submit project progress report Housing Aid forms by July 15 **Project Complete** LEA Bids For that year's cycle, LEA goes out to bid projects must and shares complete by June 30 responses with SBA

SBA Approvals

The SBA must review and approve each of these components: schematic design, design development, and construction documents.



Progress Reports

Stage IV: Construction

Project Completion

September 15 & March 15

RIDE makes Housing Aid payments twice annually for projects completed by June 30

PROGRESS UPDATE

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STAGE II PROGRESS UPDATE

23Jul 23	- Warren Concert Series
26Jul 23	 Hope & Main Schoolyard Market
27Jul 23	- Building Committee (RIDE Presentation)
27Jul 23	- AE/OPM Coordination Meeting: Weekly
30Jul 23	- Warren Concert Series
01Aug23	 Enrollment Review with Urbanomics
02Aug23	 Integrated Design Meeting (Building Systems)
02Aug23	 Hope & Main Schoolyard Market
03Aug23	 AE/OPM Coordination Meeting: Weekly
03Aug23	- RIDE Stage II Check-in #2
07Aug23	 Integrated Design Meeting (NE-CHPS)
09Aug23	 Hope & Main Schoolyard Market
10Aug23	- HS Programming Meeting
10Aug23	- Building Committee
10Aug23	 AE/OPM Coordination Meeting: Weekly
13Aug23	- Warren Concert Series
14Aug23	- Elevator Consultant Site Visit
16Aug23	- Community Night Out
17Aug23	- Geotechnical Borings @ MHHS
20Aug23	- Warren Concert Series
23Aug23	- Bristol Town Council Presentation (Bradford St Di
23Aug23	- Community Forum & MHHS Tours (Class of 2027
27Aug23	- Warren Concert Series
TBD	 Planning Dept Technical Review Committee
TBD	 Integrated Design Meeting (Security)
28Aug23	- School Committee Meeting
07Sep23	- Historic District Commission
15Sep23	 RIDE Stage II Submission Deadline
18Sep23	- Board of Elections Approval of Referendum Quest

Since Last SBC Meeting

Upcoming

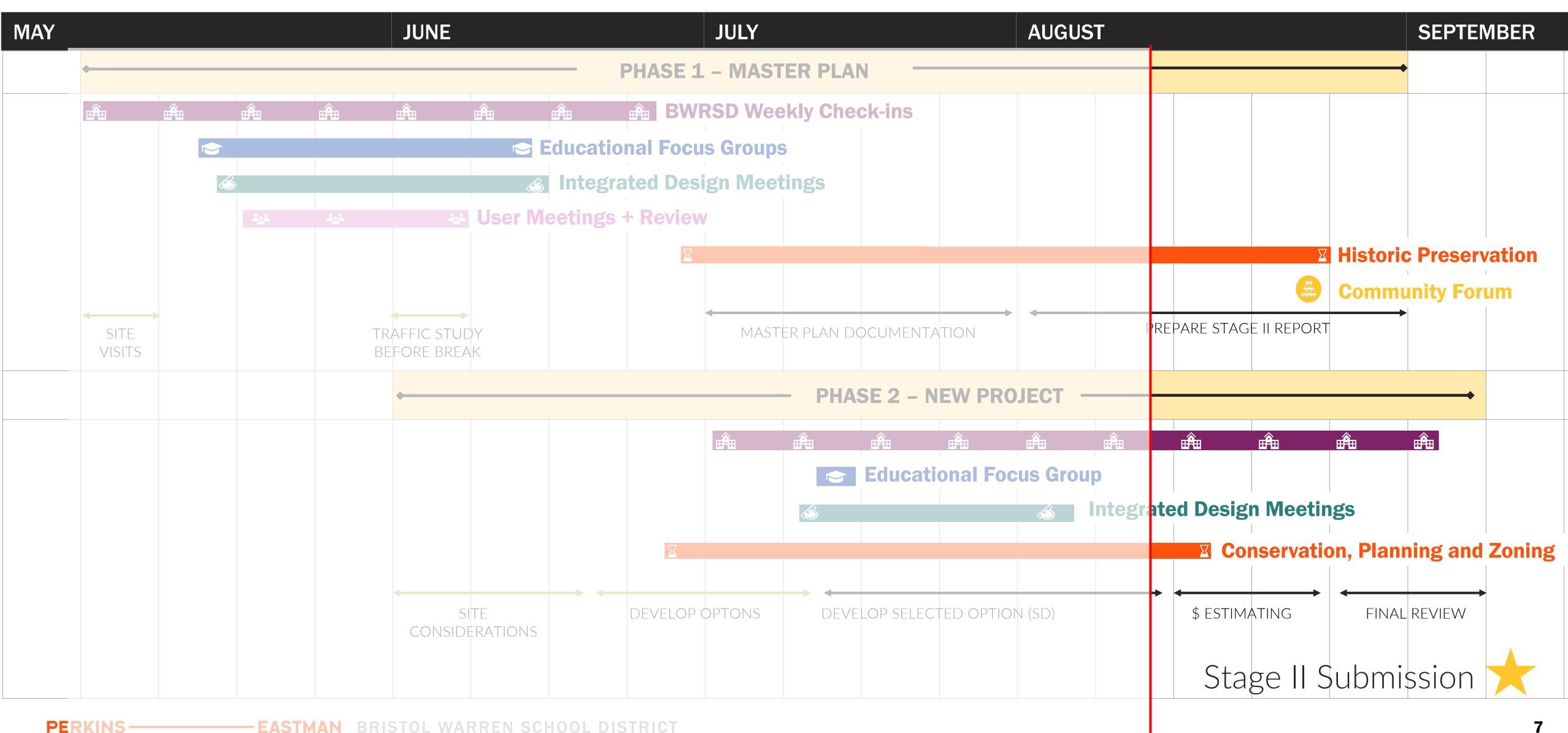
Discussion) 27 Welcoming Night)

stion(s)





Proposed Schedule - Summer



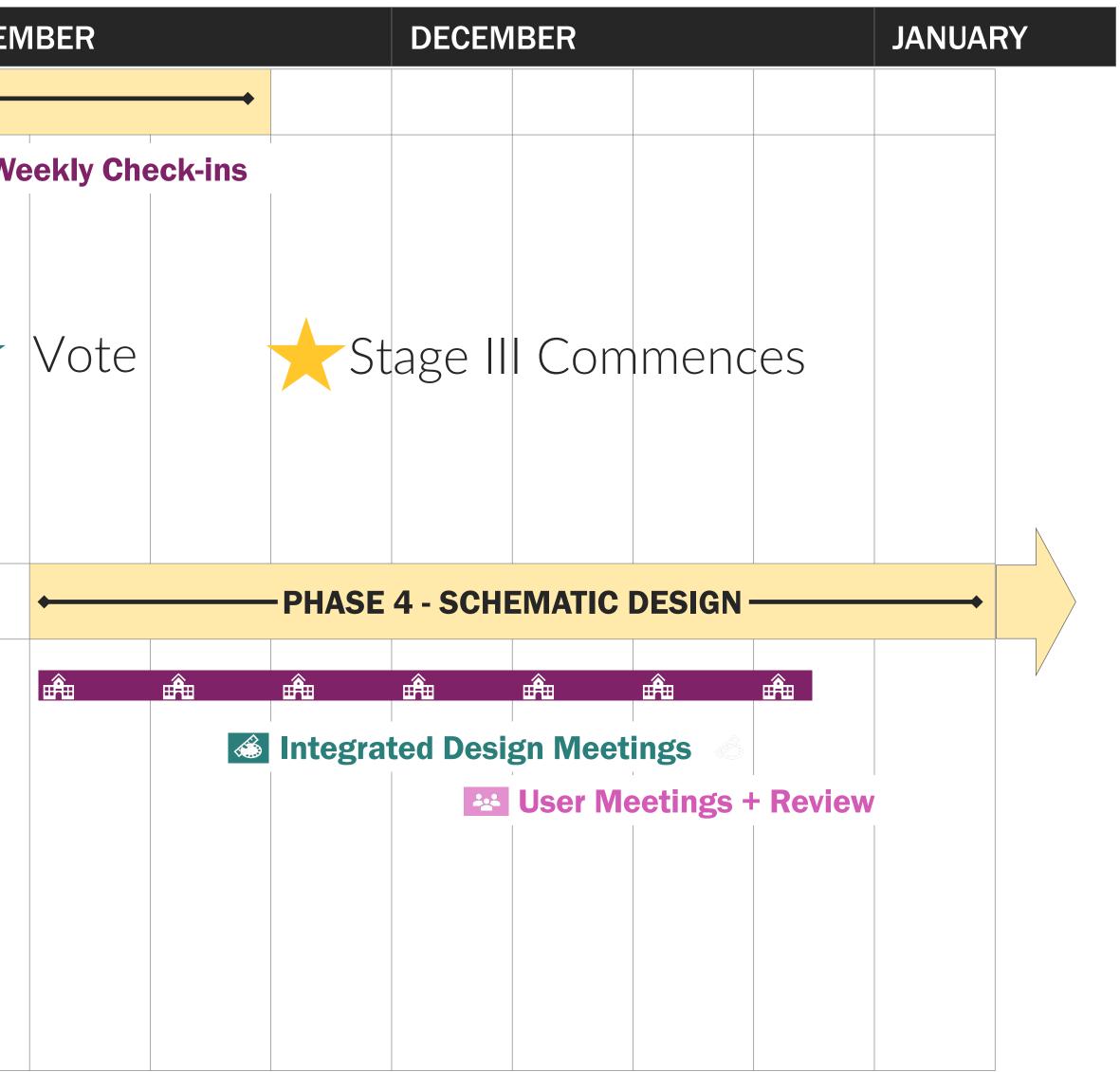
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Proposed Schedule - Fall

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Underway:

- Traffic Study Reports received
- Hazmat Review All reports have been received
- Elementary Schools & Middle School Improvement reports are being developed and issued for pricing
- User Meetings – High School Program meeting on August 10th
- Geo-environmental Studies are underway (draft to issued this week)
- Town Council Proposed option for Colt Andrews to be reviewed by on August 23rd
- Technical review meeting with Town Departments application submitted on August 10th
- NE CHPS Working on Tools for Schools and School as a Tool
- Code Analysis in process with JS Consulting
- Technology scope review of school needs is underway
- FF&E budget underway, next step is to review with district

Upcoming:

- Historic Preservation Review Sept. 7th
- Elevator Inspections August 14th
- Geo-technical Drilling on August 17th and 18th
- Town Council Meeting August 23rd
- Neighborhood meeting for High School project TBD
- Fechnical Review with Town Departments August meeting TBD
- Planning Board review submit in Sept. for Oct. meeting
- Security Workshop TBD

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RECAP OF RIDE STAGE II CHECK-IN

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PROPERTY IN COMPANY AND ADDRESS OF TAXABLE PROPERTY ADDRES





Update on Site Alternatives Evaluation Concept Plan/Estimates Demographics/Enrollment **C**TE Programming **FCI** Update Legislative Updates Targeted Bonuses Update on Local Funding Delivery Methods for Construction • Early Packages



✓ M/WBE: 10->15% ✓ Bonus Extension: Now 6/30/24 ✓ Completion Deadline: 6/30/29 ✓ \$/SF Cap - \$529SF Confirmed

o RECENTLY UPDATED - No additional change anticipated near-term

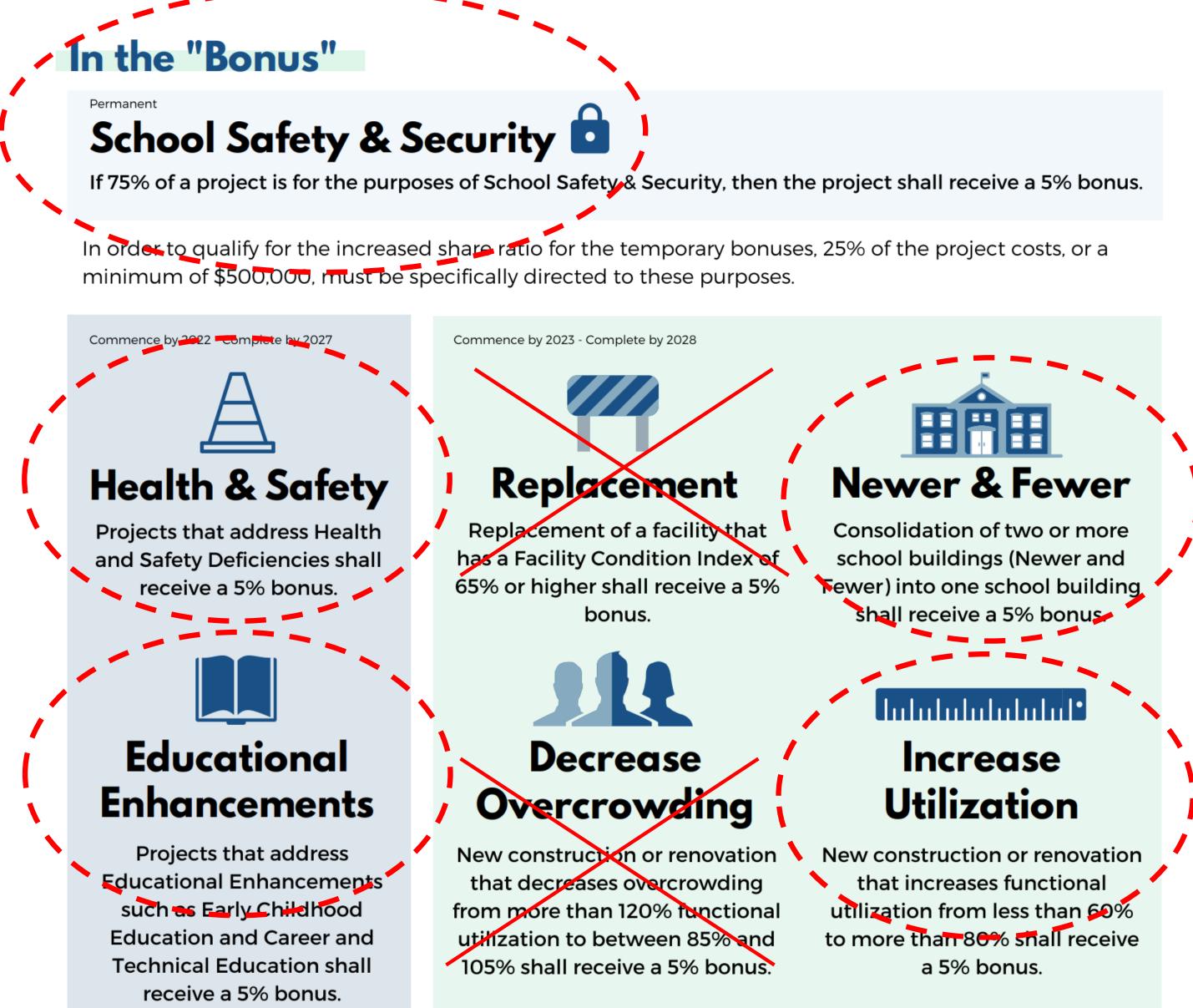


MAXIMIZING FUNDING



63% Base

+ up to 20% Bonus





Systems Updates

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- Summary from previous session
- HVAC priority exercise
- HVAC system selection options
- NZE
- Incentives
- Prelim systems cost analysis





HVAC Systems - What is Important to You?

ACTUAL RESULTS FROM EXERCISE

High Priority

- Low Life Cycle Cost
- Funding Incentives
- Low EUI \bullet
- IAQ
- **Emission Implications** •
- Future Adaptability
- Operating Cost

Medium Priority

•	Acoustics
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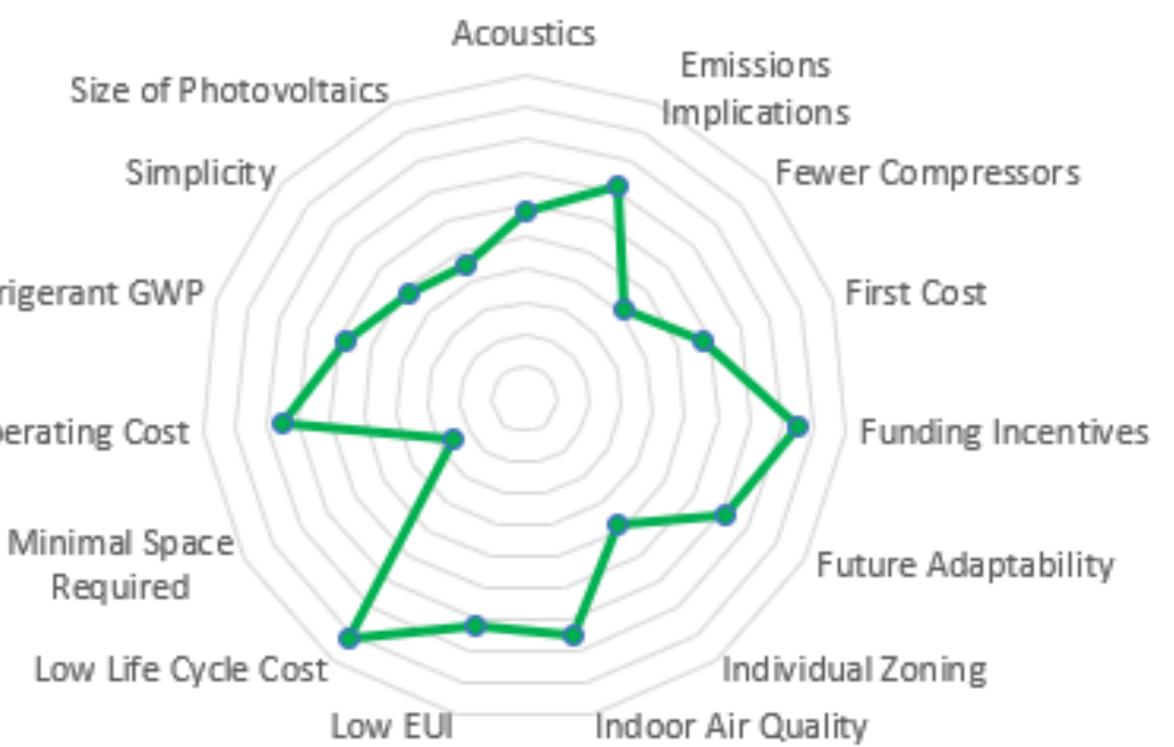
- First Cost
- Refrigerant GWP
- Individual Zoning •
- Fewer Compressors
- Simplicity
- PV Size

Low Priority

Minimal Space Required

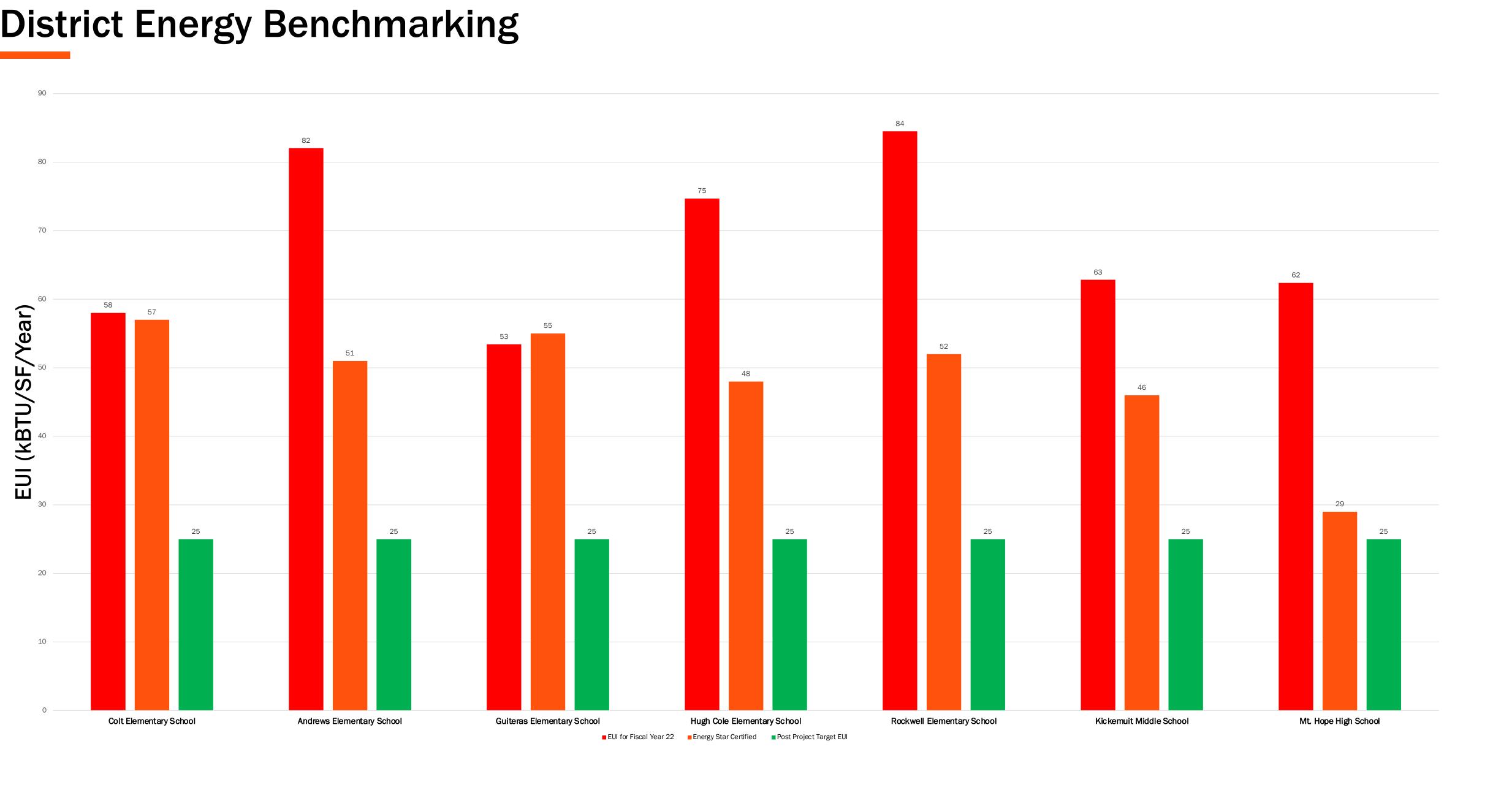
Refrigerant GWP

Operating Cost





District Energy Benchmarking



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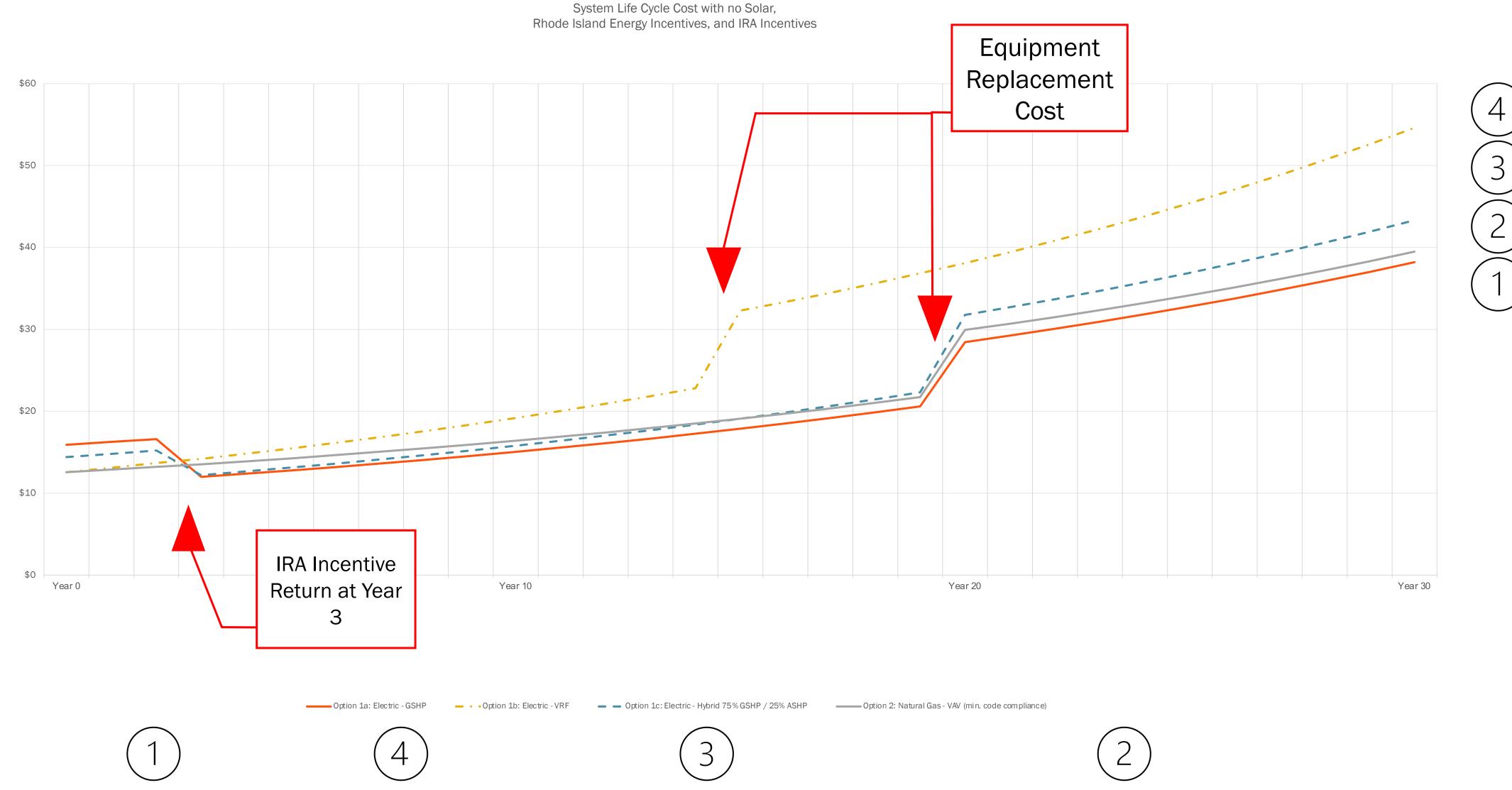
	Option 1a – Electric GSHP	Option 1b - Electric VRF	Option 1c – Electric GSHP / ASHP	Option 2 – Natura Gas - VAV
Heating Source	Ground Source	Air Source	Ground & Air Source	
Cooling Source	Ground Source	Air Source	Ground & Air Source	
Distribution	Heat Pump Unit	Ceiling Cassette	Heat Pump Unit	



System Analysis without Solar PV

LCCA w/o Solar	Option 1a Ground Source Heat Pump (pEUI = 28)	Option 1b Air Source VRF (pEUI = 50)	Option 1c Hybrid GSHP/ASHP (pEUI = 34)	Option 2 Variable Air Volume (pEUI = 55)
Total Initial Investment	\$15,912,500	\$12,562,500	\$14,405,000	\$12,562,500
Rhode Island Energy Incentives	\$209,000	\$84,000	\$209,000	\$59,000
IRA Incentives	\$5,025,000		\$3,392,000	
Annual Energy Cost	\$247,500	\$445,500	\$297,000	\$131,000
Annual Maintenance Cost	\$92,000	\$100,500	\$100,500	\$109,000
Future Replacement Cost	\$7,094,000	\$8,454,000	\$8,562,000	\$7,467,000
30 Year Life Cycle Cost	\$38.2 million	\$54.6 million	\$43.4 million	\$39.5 million
As • • • • • • •	Market escalation rate: 2%.	ed on \$/sf standards. /Systems at year 20. The well field portion of first c	ates Center. ost is excluded as the lifespan of the average well field ts, replacement cost, and incentives. Market escalatior	

Long term vs. Short term Value - Life Cycle Cost without Solar



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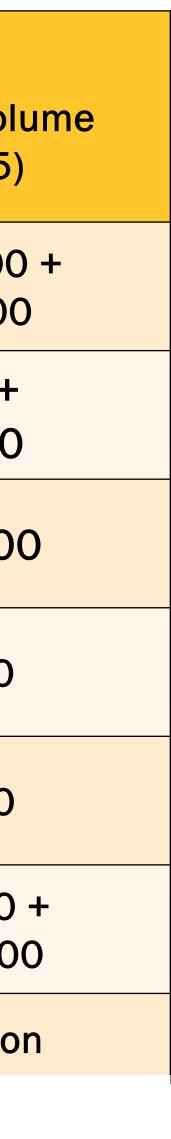




System Analysis with Solar PV

LCCA With Solar For Net Zero	Option 1a Ground Source Heat Pump (pEUI = 28)	Option 1b Air Source VRF (pEUI = 50)	Option 1c Hybrid GSHP/ASHP (pEUI = 34)	Option 2 Variable Air Volu (pEUI = 55)
Total Initial Investment	\$15,912,500 + \$3,124,000	\$12,562,500 + \$6,372,000	\$14,405,000 + \$3,749,000	\$12,562,500 \$7,091,000
Rhode Island Energy Incentives	\$209,000 + \$100,000	\$84,000 + \$100,000	\$209,000 + \$100,000	\$59,000 + \$100,000
IRA Incentives	\$5,025,000 + \$937,000	\$1,912,000	\$3,392,000 + \$1,125,000	\$2,127,000
Annual Energy Cost	\$247,500	\$445,500	\$297,000	\$131,000
Annual Maintenance Cost	\$92,000	\$100,500	\$100,500	\$109,000
Future Replacement Cost	\$7,094,000 + \$4,642,000	\$8,454,000 + \$9,469,000	\$8,562,000 + \$5,571,000	\$7,467,000 \$10,537,000
30 Year Life Cycle Cost	\$44.9 million	\$68.4 million	\$51.4 million	\$54.9 millior
As • • • • • • • • • • • •	Maintenance Costs- Rates used respectively are ba Replacement Cost- reflects Central Plant Equipme Market escalation rate: 2%.	nt/Systems at year 20. The well field portion of first co	ates Center. ost is excluded as the lifespan of the average well field i ts, replacement cost, and incentives. Market escalation	

ary by system.



Long term vs. Short term Value - Life Cycle Cost with Solar

System Life Cycle Cost with Solar, Rhode Island Energy Incentives, and IRA Incentives



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ES/MS Site Improvements

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Hugh Cole Elementary School

SAFETY IMPROVEMENTS: NEW PLAY AREA AND DROP OFF/PICK UP PATTERN





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VICE AND EMERGENCY VEHI



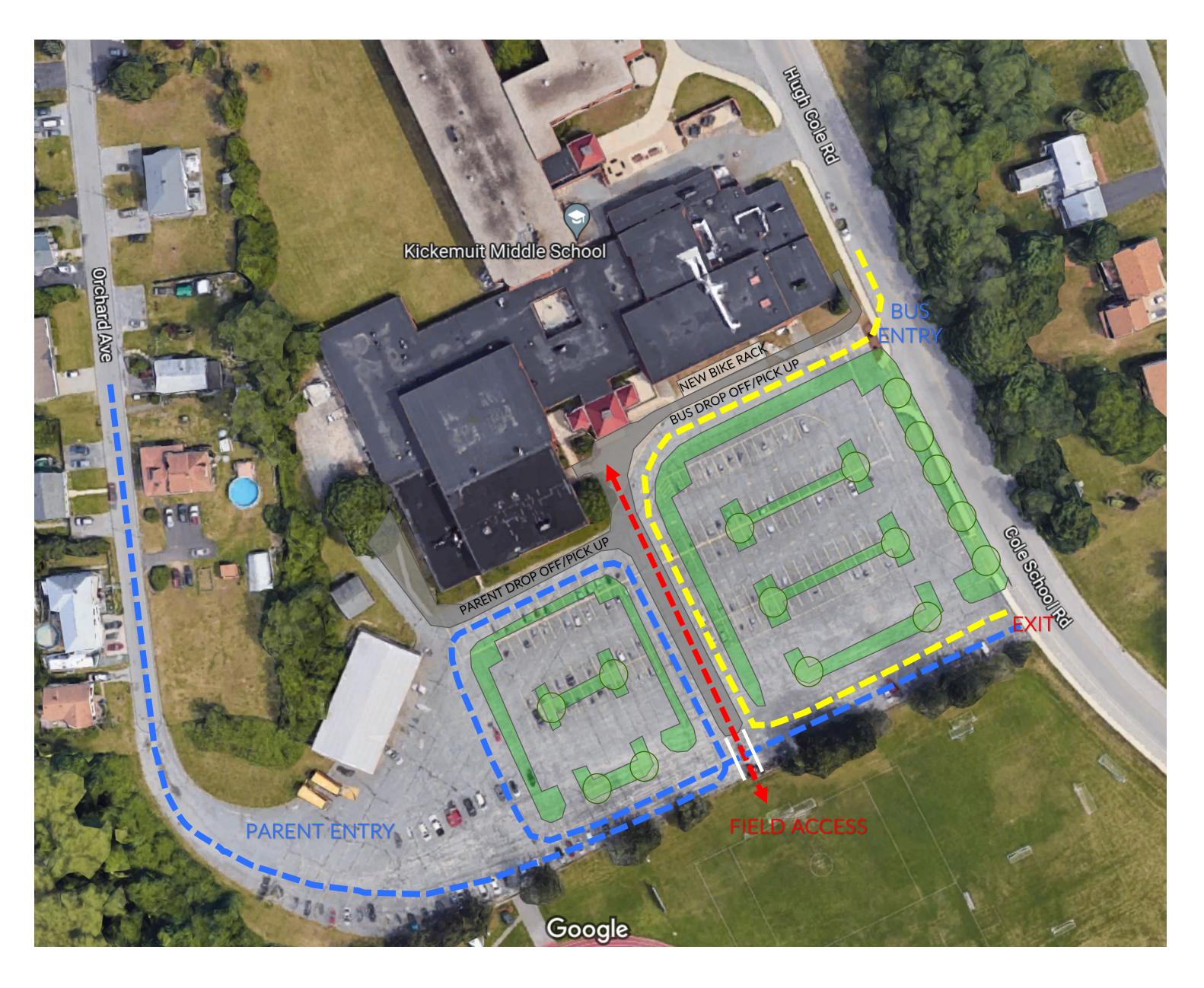
NEW SLIDE OR SWING GATE TO CONTROL ACCESS

GATE LAWN/TRESS NEW HARD PLAY AREA



Kickemuit Middle School

SAFETY IMPROVEMENTS: NEW PARKING LOT IMPROVEMENTS







ES/MS Updates





Existing & Projected Enrollments

EXISTING FY '23 (RIDE), PROJECTED FY'28 (8/'23 URBANOMICS REPORT)

		NESDEC						Sec. 1								
Exist	ting (2022/23)	PK	к	1	2	3	4	5	6	7	8	9	10	11	12	K-12
DI	DE Database October	22														(w/o PK)
1000000	Colt-Andrews	20	35	43	44	42	58	58								280
В		20	42	34	34	36	45	43								234
	Hugh-Cole	40	88	74	85	77	68	78								470
В	Rockwell		46	48	32	47	44	47								264
	All Elementary	60	211	199	195	202		226	•							1248
W									210	221	219					650
В	MHHS											221	194	244	220	879
Prov	ectea (2027/28)	РК	ĸ		7	2	л	- 5	- 6	- 7	2	9	10	11	12	K-12
110,		E IX	N°.	2 2	L				U		D	2	10	11	12	N=12
Ur	banomics Cohort Sur	vival f	Model	- 5yr	Meth	od w/	RE A	ugnme	ent							(w/o PK)
В	Colt-Andrews		46	46	46	40	39	34								251
В	Guiteras		38	38	38	34	34	46								228
W	Hugh-Cole		85	82	80	65	65	87								464
В	Rockwell		41	41	42	36	39	50								249
	All Elementary	66	210	207	206	175	177	217			31 23 45					1192
	Kickemuit								206	200	204					610
	MHHS											202	207	197	220	826
1.1.4	hanemics Cohort Sur		Model	Eve	R/lath	od wił	DE A.	IGAM		locon	tion income	tion				(mite DI/)
	Colt-Andrews	VIVALI	84	- 3y	84	74	73	agiinite		ecom	iguia	uon				(w/o PK) 399
B	Guiteras		04	04	04	74	13									0
States.	Hugh-Cole		85	82	80	65	65									377
B	Rockwell		41	41	42	36	39									199
1	All Elementary	66	210	207	206	175										975
					100000000000000000000000000000000000000				200	200	204					
	Kickemuit							217	206	200	204					021
								217	206	200	204	202	207	197	220	827 826

* Note: Special Education - Transitions Program to return to the District and students added to MHHS

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Colt-Andrews Elementary School

EXISTING PROGRAM (FY2023)

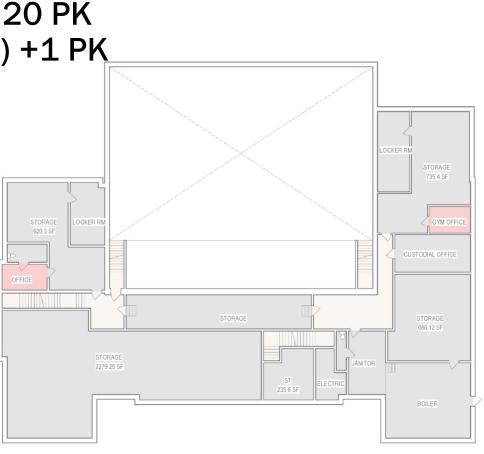
280 Students K-5 + 20 PK 13 CRs (2/Gr, 3/5th) +1 PK

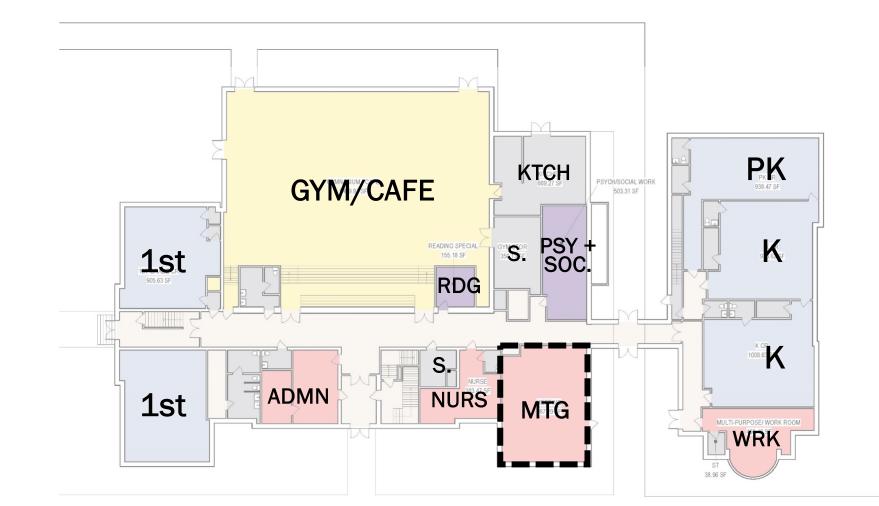
4 CRs Available



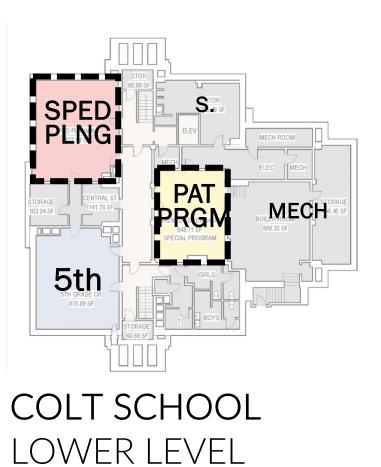
ABBREVIATION LEGEND

AP - Assist. Principal C – Custodial CR - Classroom COZ – After School Program **ISS** – In School Suspension KTCH – Kitchen MECH – Mechanical MLL – Multi-Lang Lrnrs MTG - Meeting/Conf. MTH - Math Specialist 0 – Office PSY - Psychologist **RDG** – Reading **RES** – SPED Resource S – Storage SCI – Science Lab SENS – SPED Sensory Rm SOC – Social Worker SM – Small Group **SPCH** -Speech SSO – Safety Officer WL - World Language WRK – Teacher Work **PERKINS**-

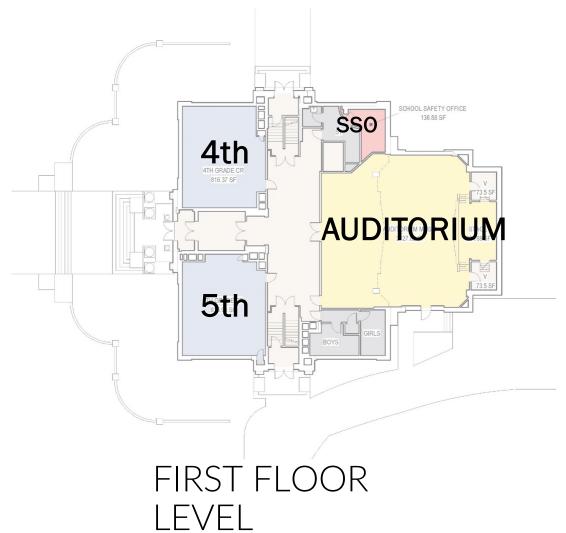




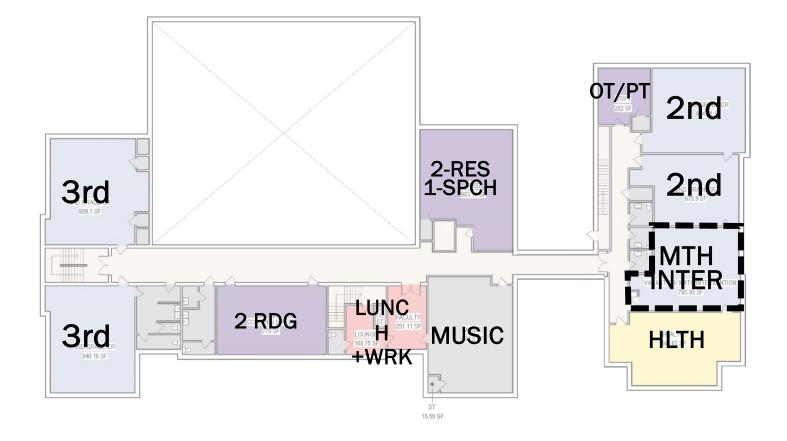
ANDREWS SCHOOL BASEMENT LEVEL



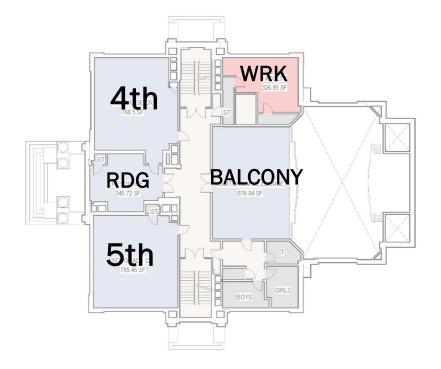
FIRST FLOOR LEVEL



EASTMAN BRISTOL WARREN SCHOOL DISTRICT

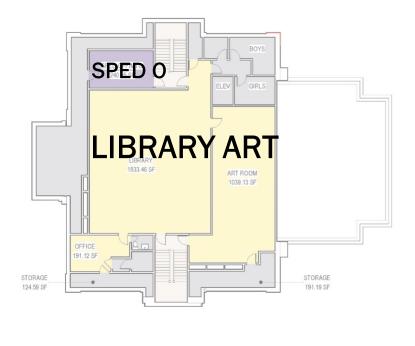


SECOND FLOOR LEVEL



SECOND FLOOR

LEVEL



THIRD FLOOR LEVEL

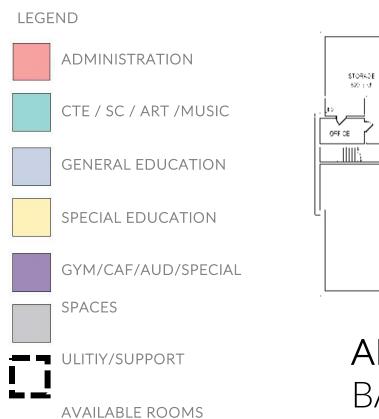


Colt-Andrews Elementary School

PROJECTED PROGRAM (FY2028)

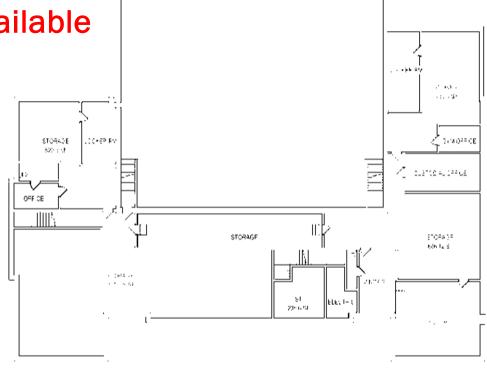
399 Students K-4 + 11 PK 20 CRs (4/Gr) +1 PK

Health in CRs, 0 Available

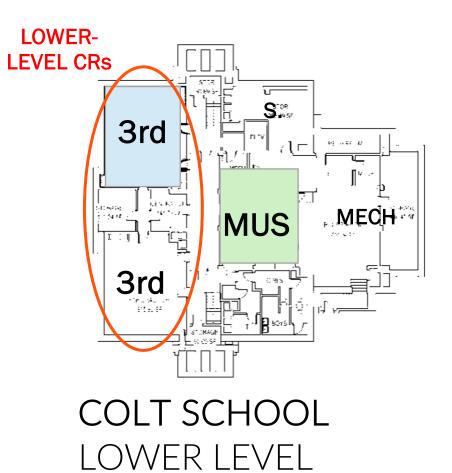


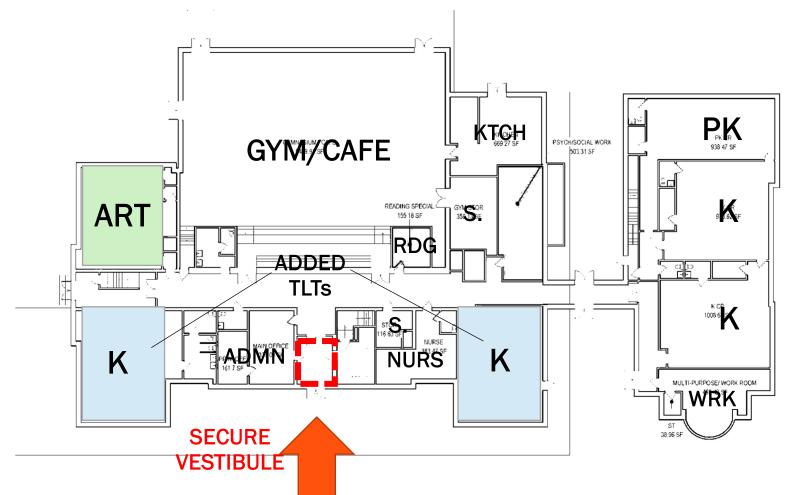
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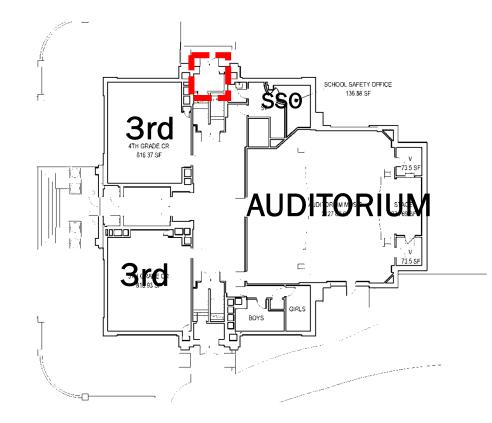


ANDREWS SCHOOL **BASEMENT LEVEL**





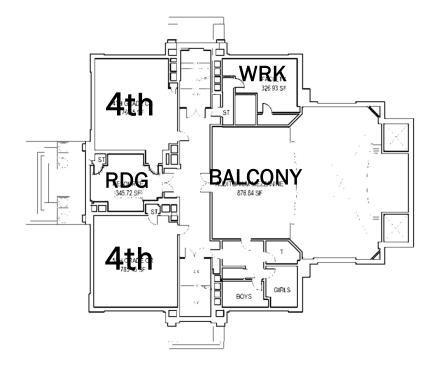
FIRST FLOOR LEVEL

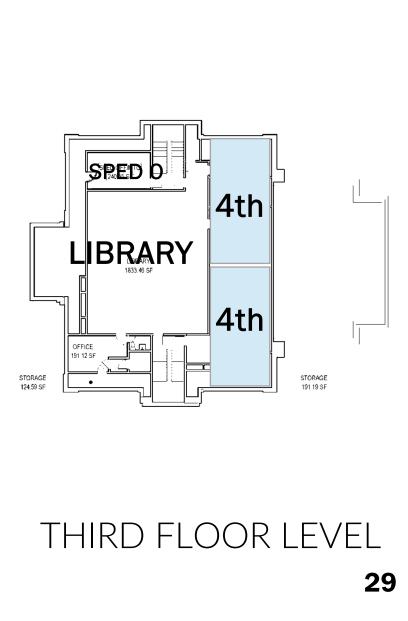


FIRST FLOOR

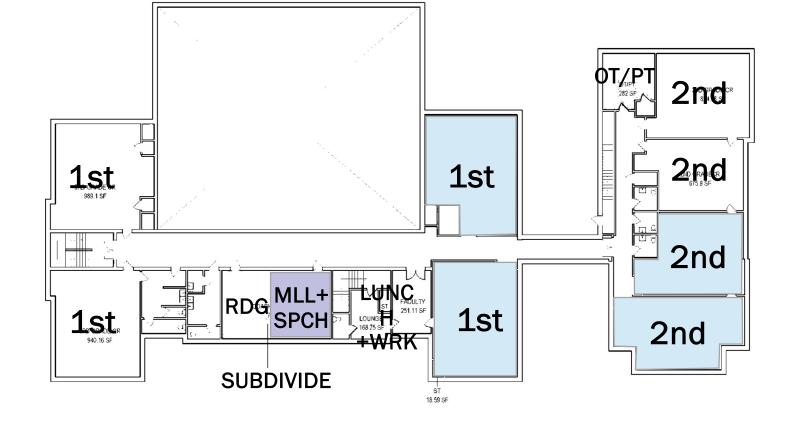
LEVEL **-EASTMAN** BRISTOL WARREN SCHOOL DISTRICT







SECOND FLOOR LEVEL



Colt-Andrews Elementary School

LOWER LEVEL CLASSROOM VS UPPER LEVEL LIBRARY SPACE

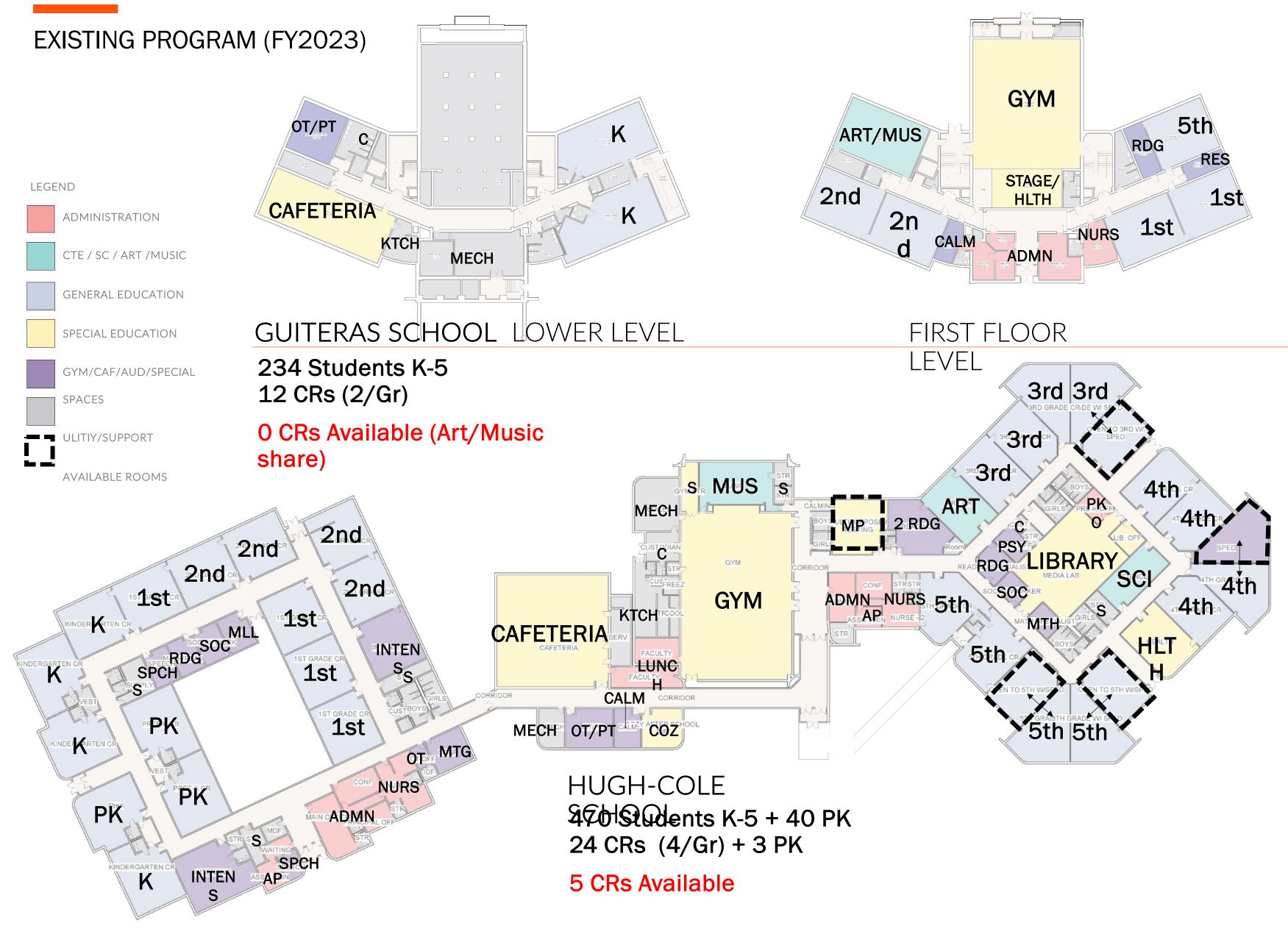


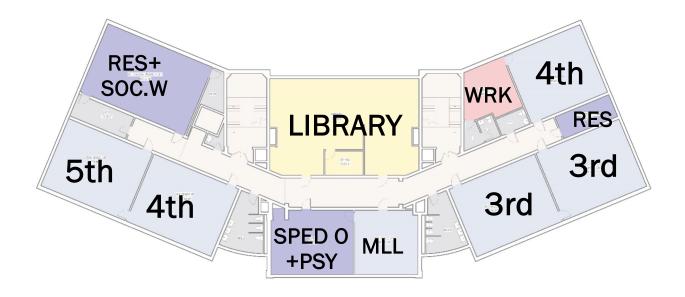
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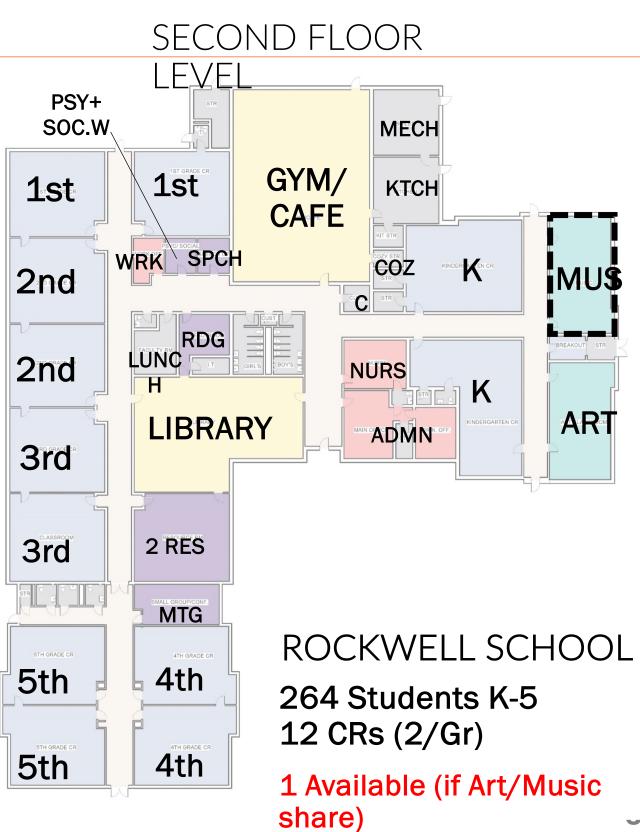
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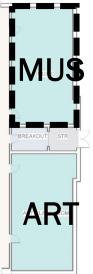


Guiteras, Hugh-Cole & Rockwell







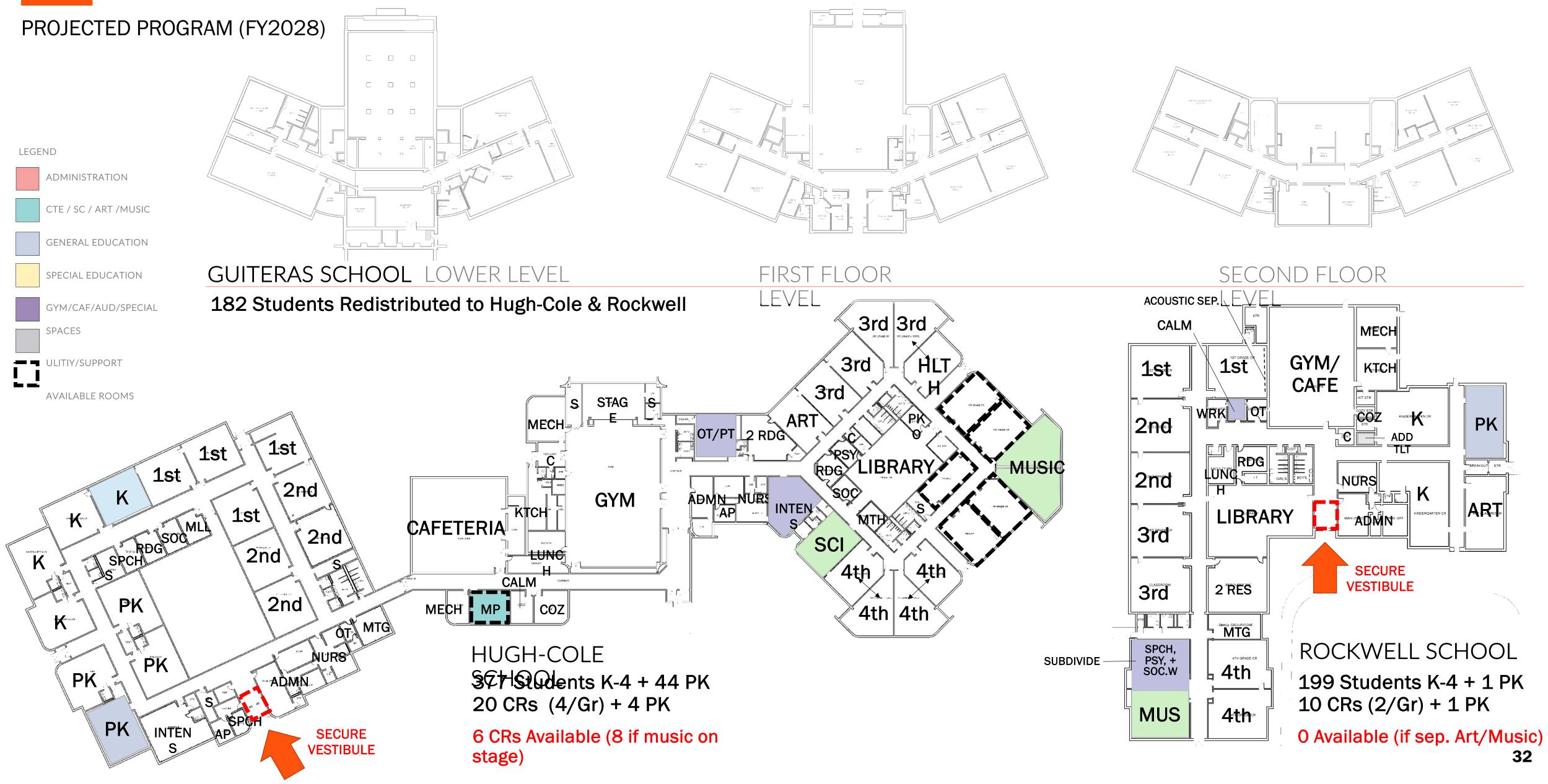


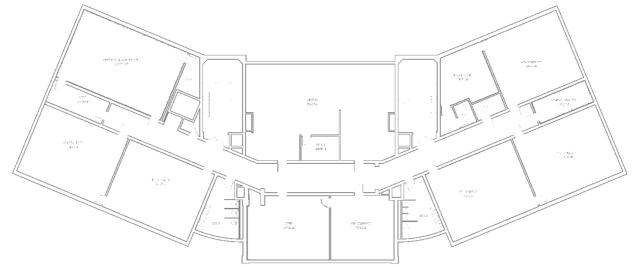


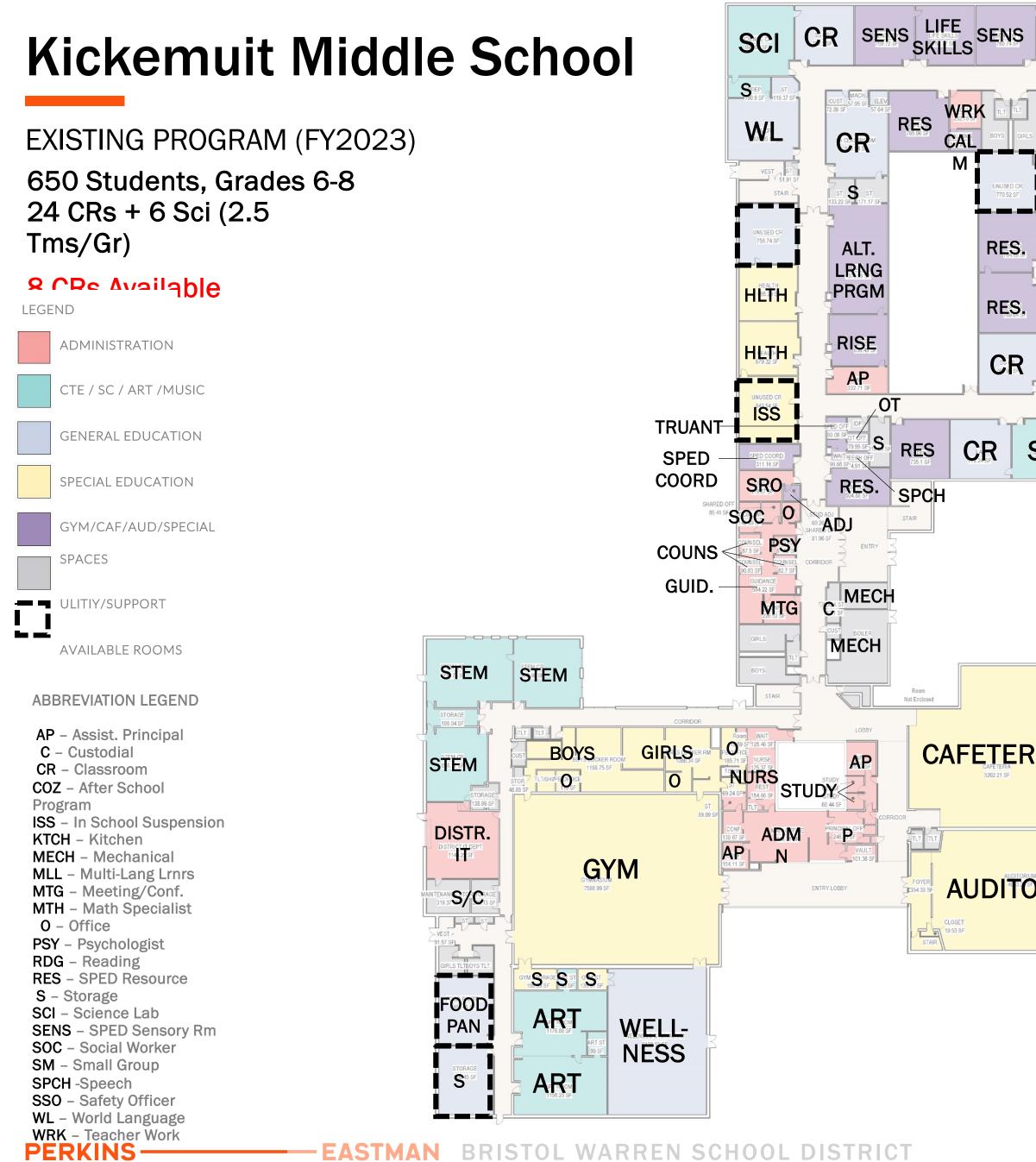


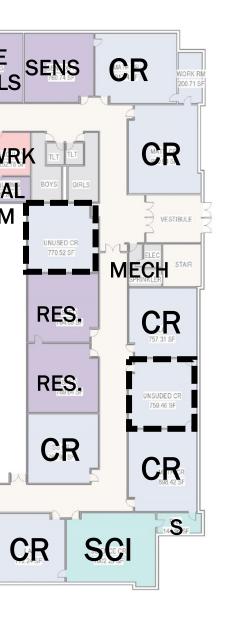


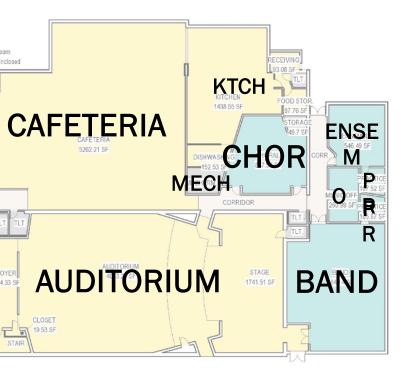
Guiteras, Hugh-Cole & Rockwell

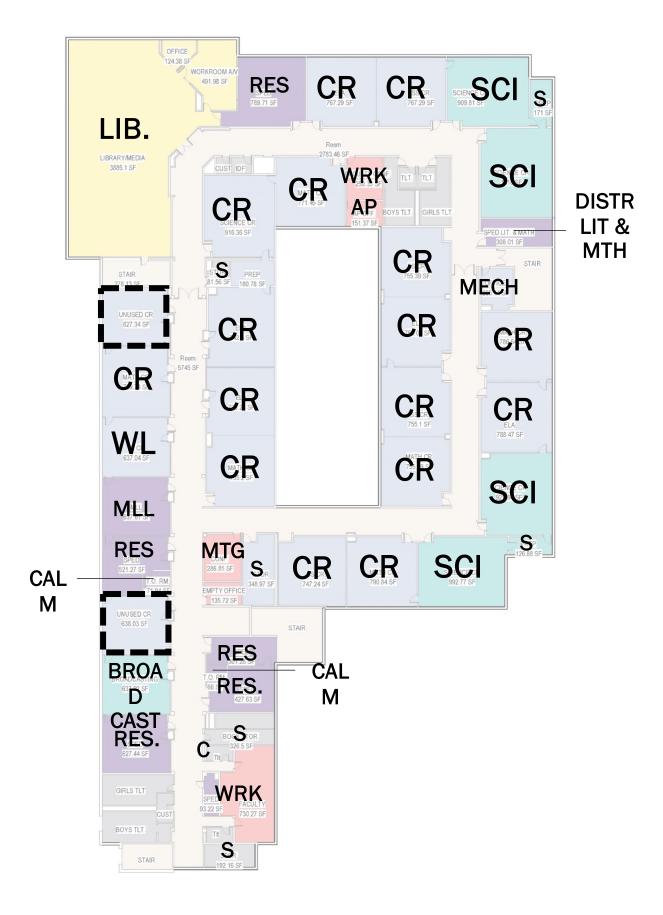






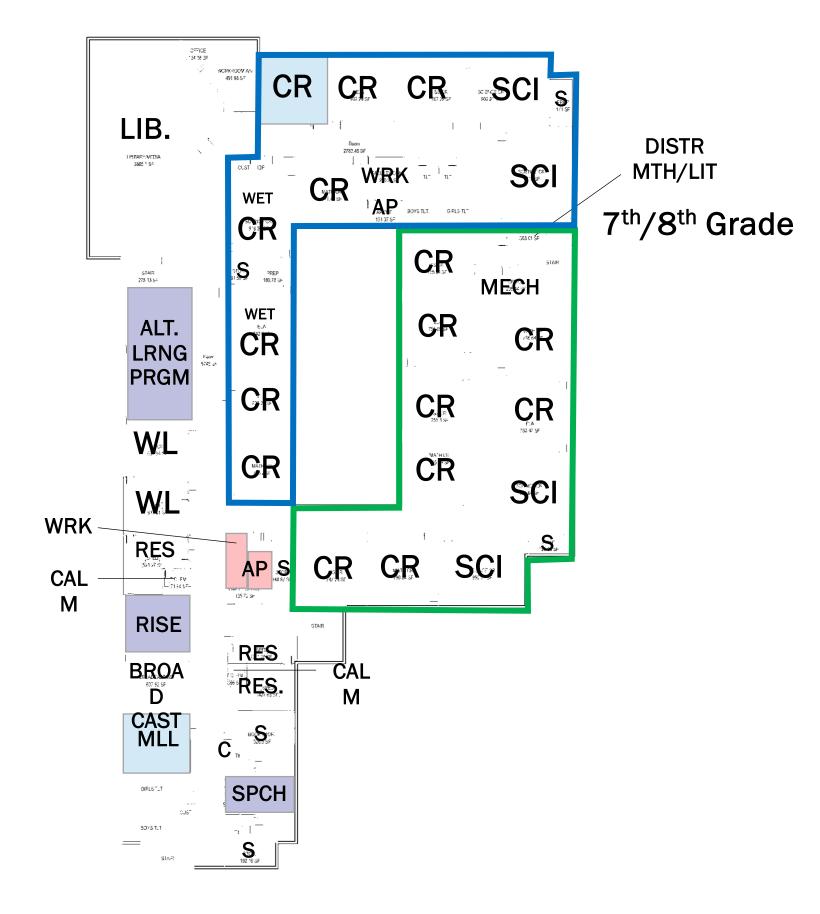












COMMUNITY OUTREACH





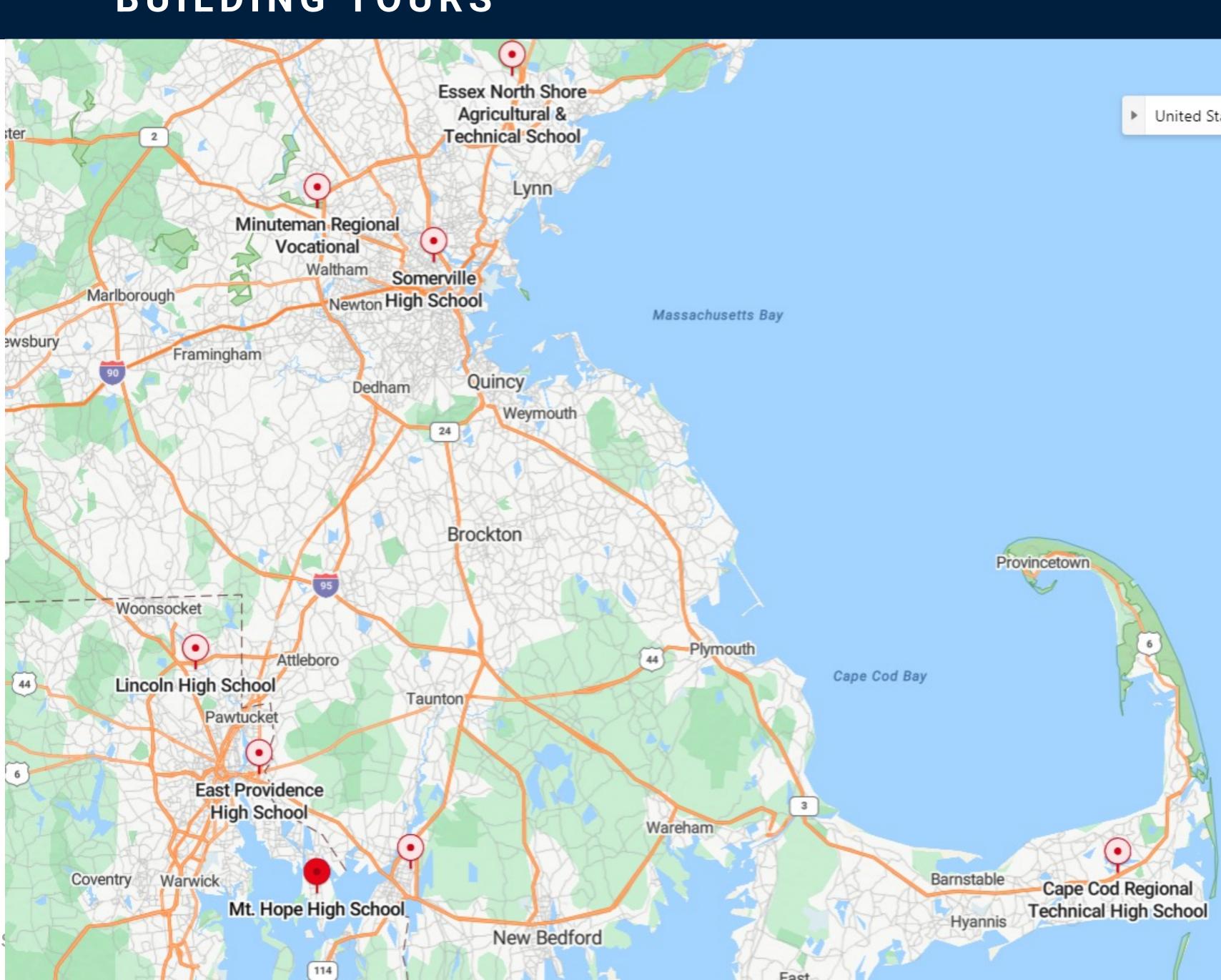


Community Website Updates Bristol Concert Series **Warren Concert Series** Hope & Main Schoolyard Markets Community Night Out (8/16) Class of 2027 Welcoming (8/23) Image: Market And American American

Other Public Meetings / Events **School Committee Updates** Building Committee Meetings Town Council Presentations (Bristol and Warren) Bristol Historic District Commission

Options:

Somerville High School (CTE w/ Construction) Essex Agricultural (CTE w/ Construction) **Cape Cod Tech** (CTE w/ Construction) Durfee HS (CTE w/ Construction) Minuteman Tech (CTE w/ Construction) East Providence HS (CTE w/ Construction) Lincoln HS (add-reno) (no CTE)



BUILDING TOURS

HS Design Updates

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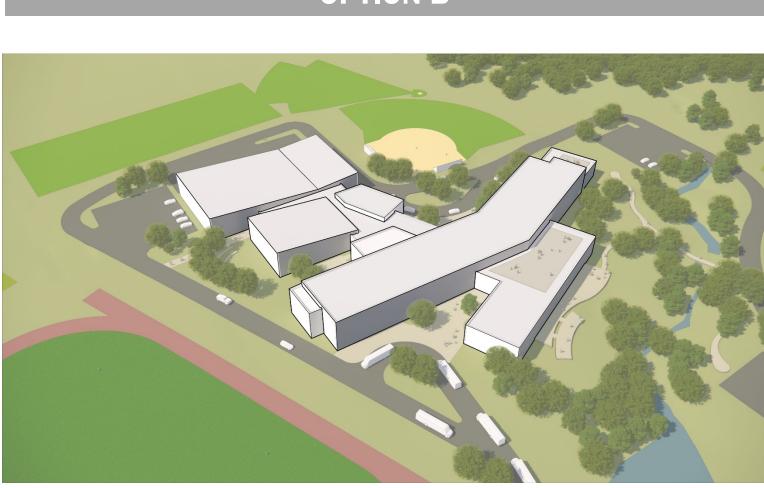




OPTION A



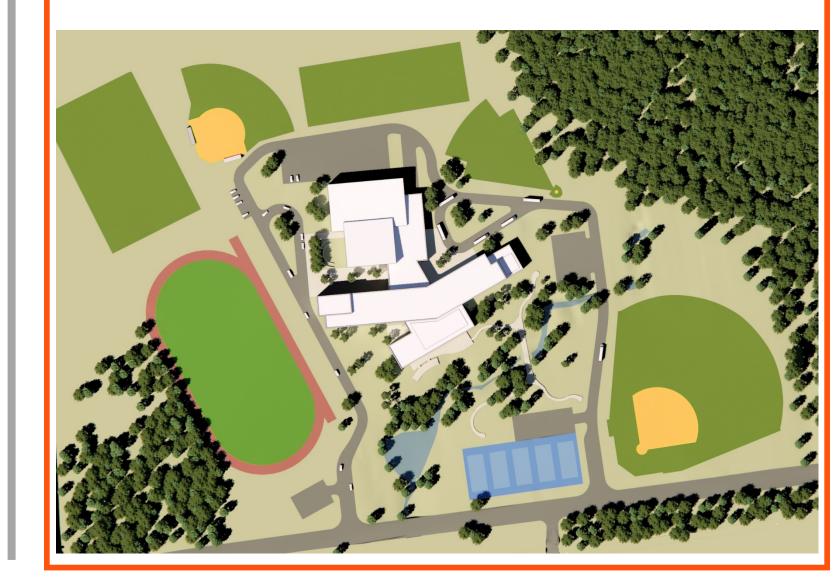






OPTION B

OPTION C

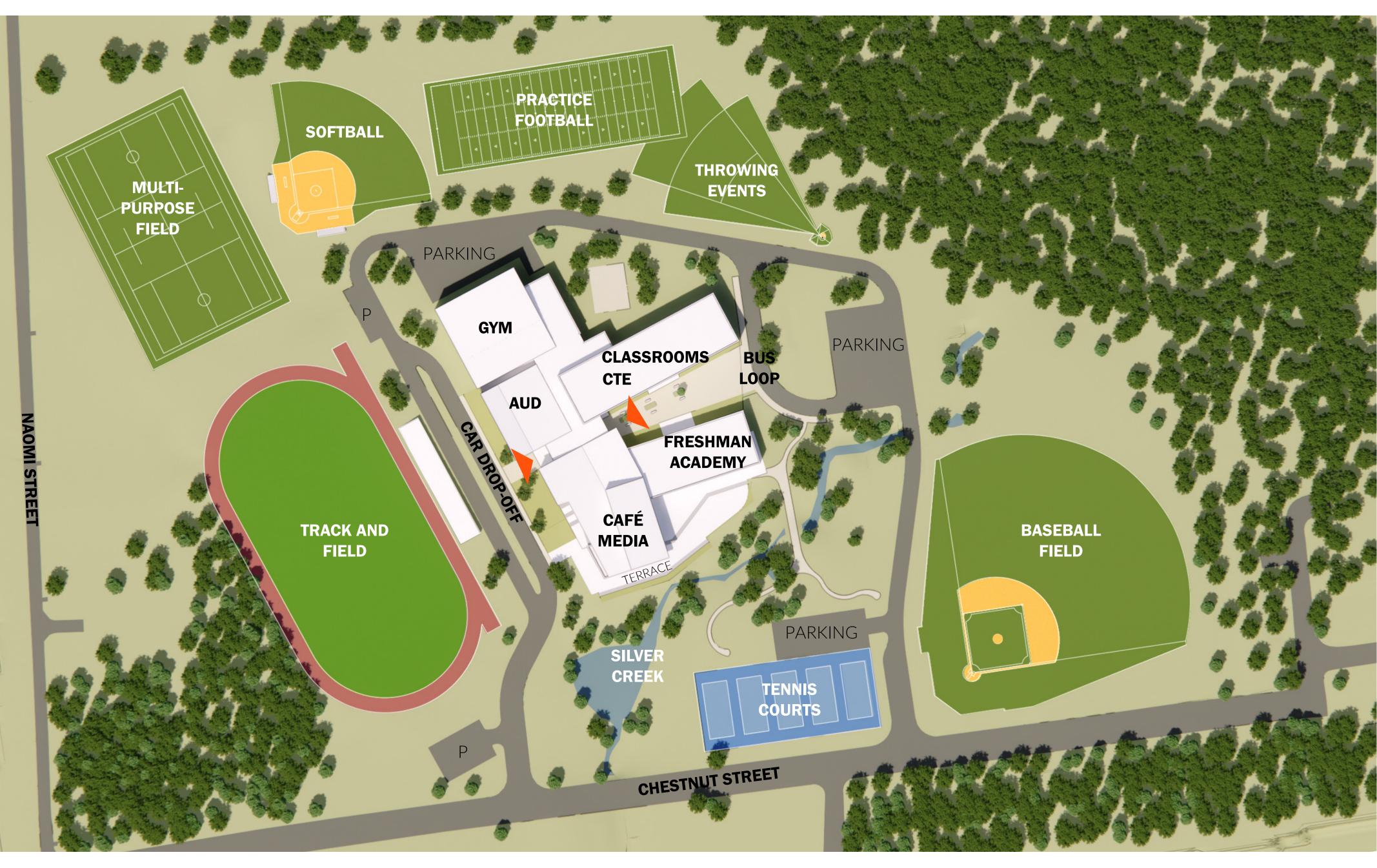








MOUNT HOPE HS

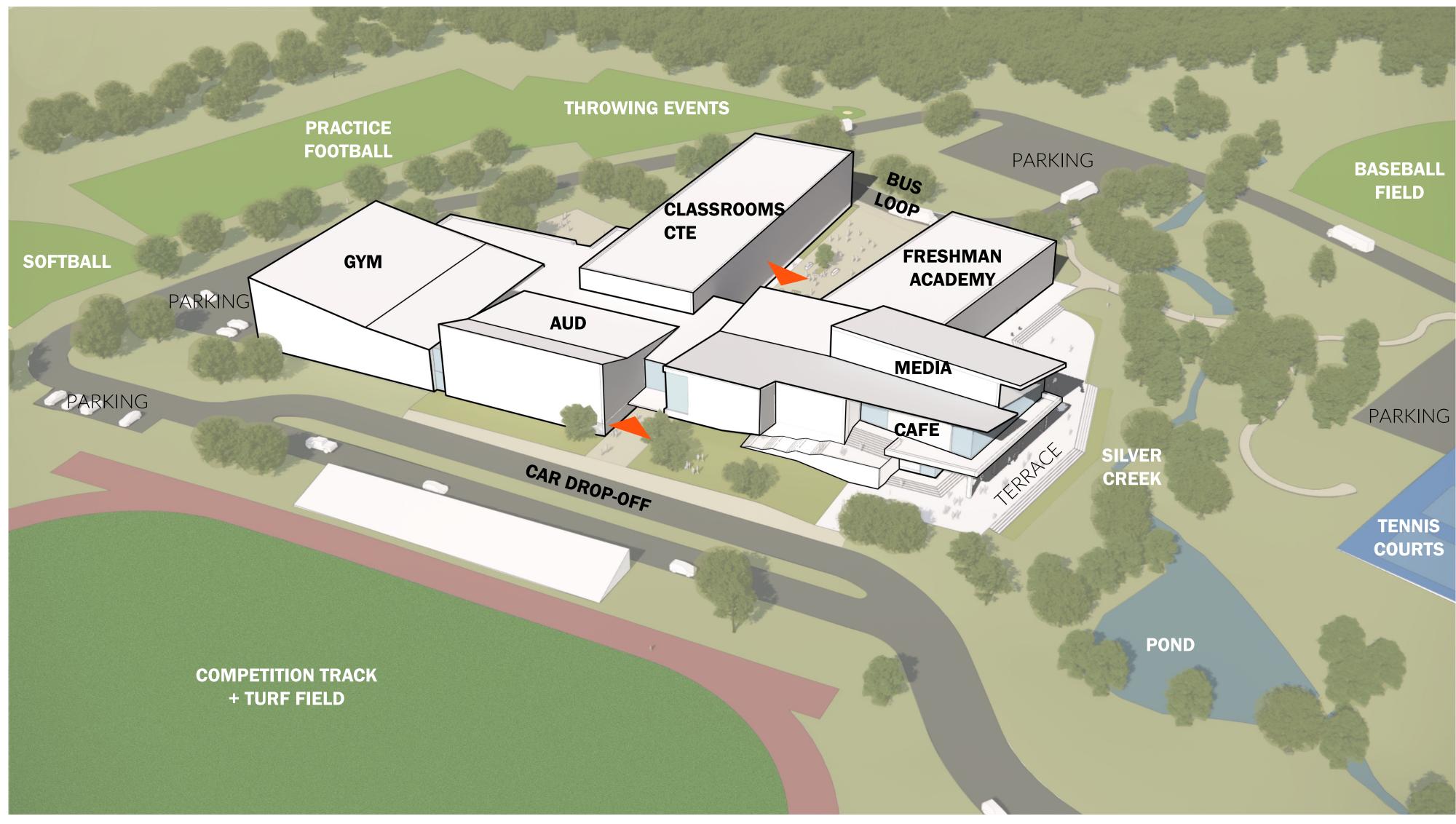






Main Entry Aerial

VIEW FROM WEST | CAR DROP-OFF

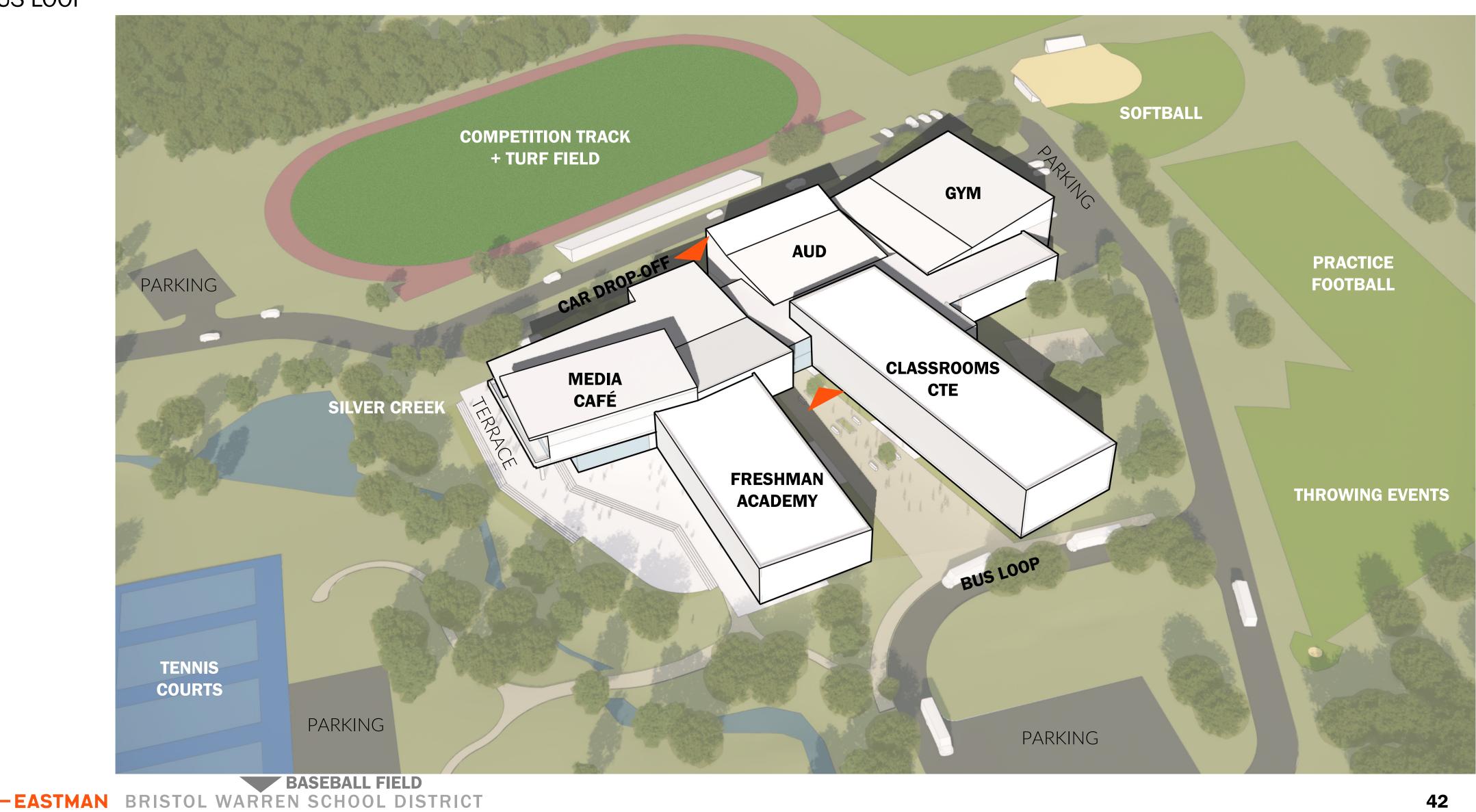


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Courtyard Aerial

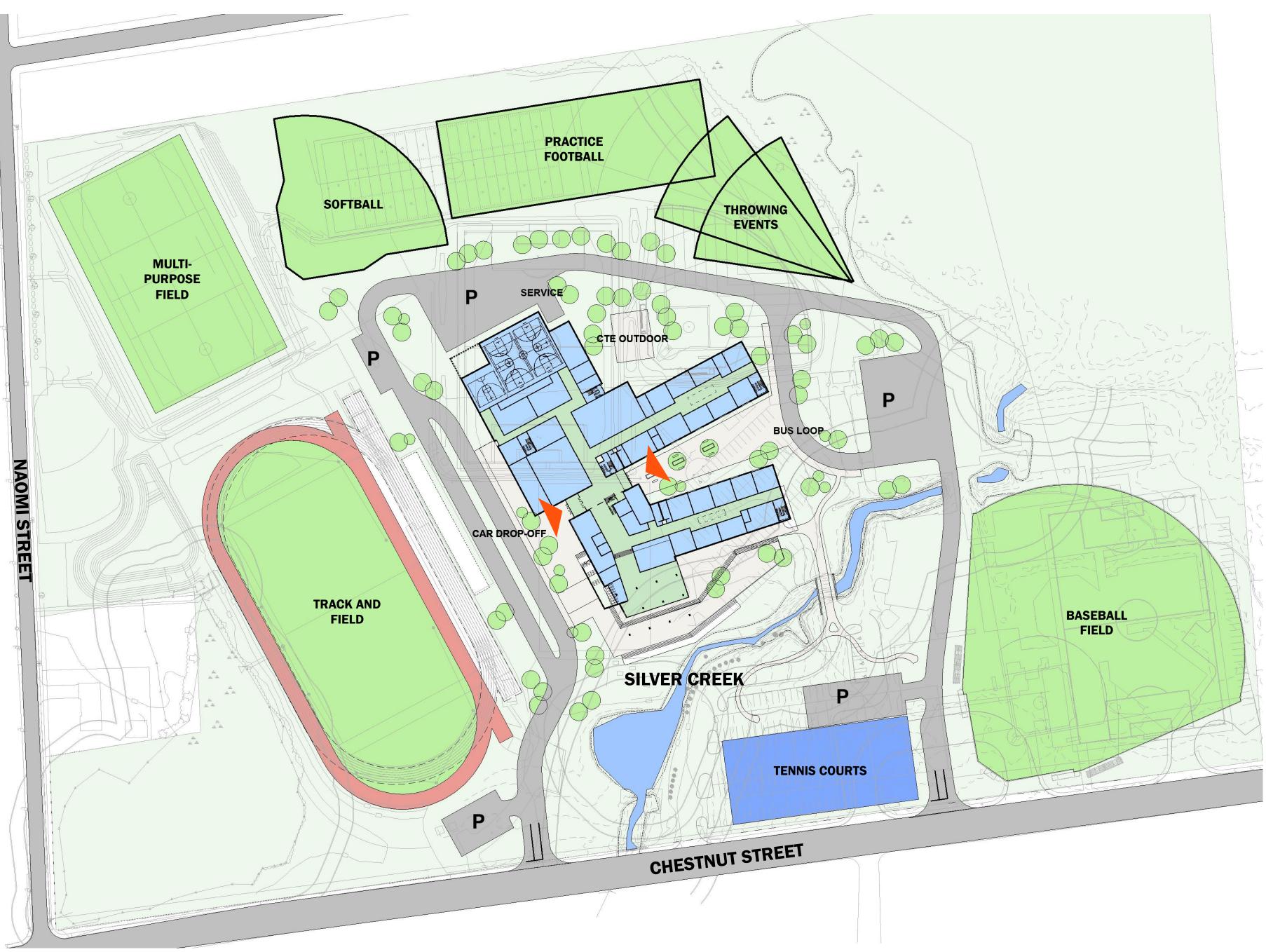
VIEW FROM EAST | BUS LOOP



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Site & First Floor Plan

BLUEWAYS & GREENWAYS







First Floor Plan



N T PERKINS-



Second Floor Plan



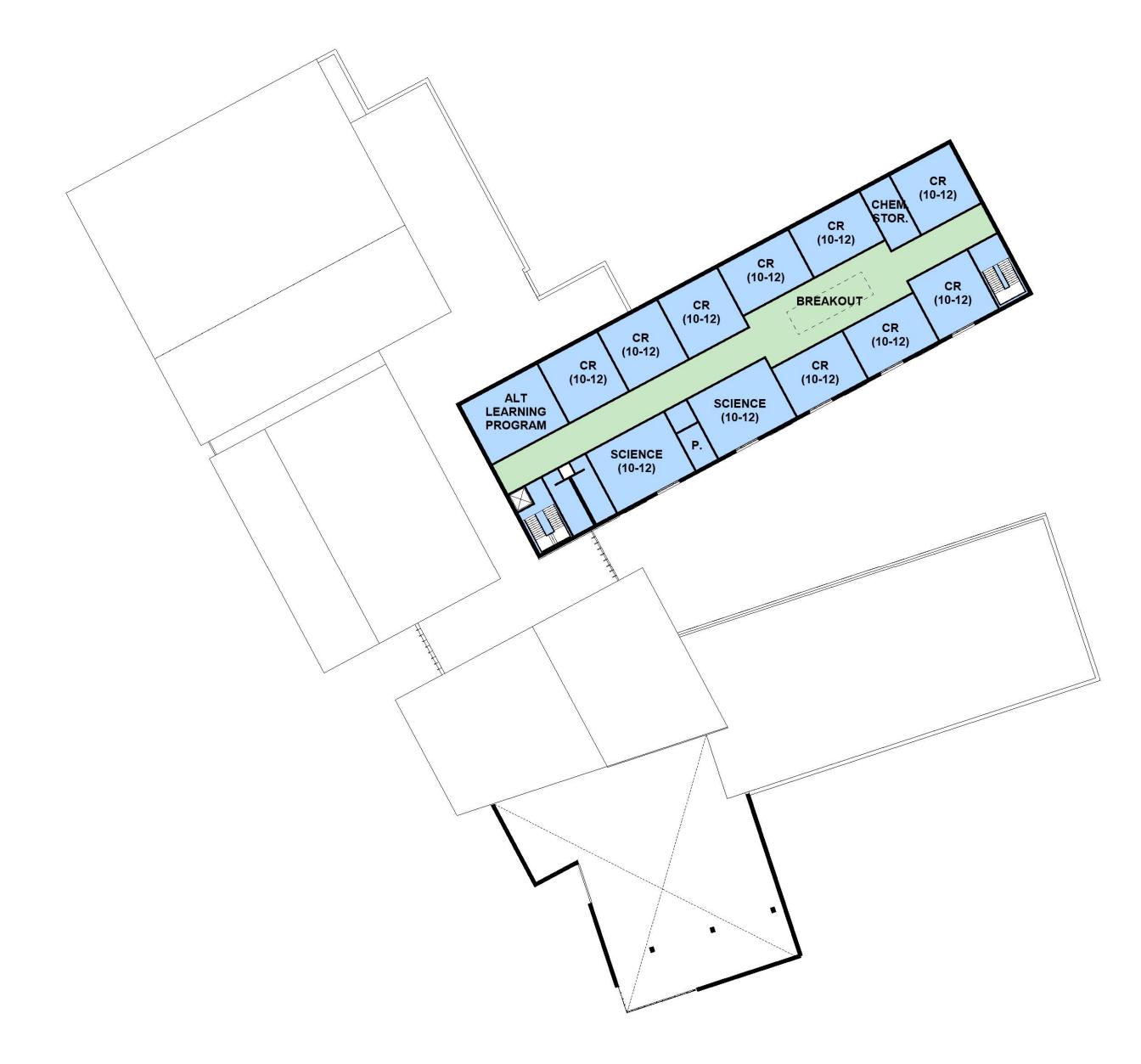


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20-24 11



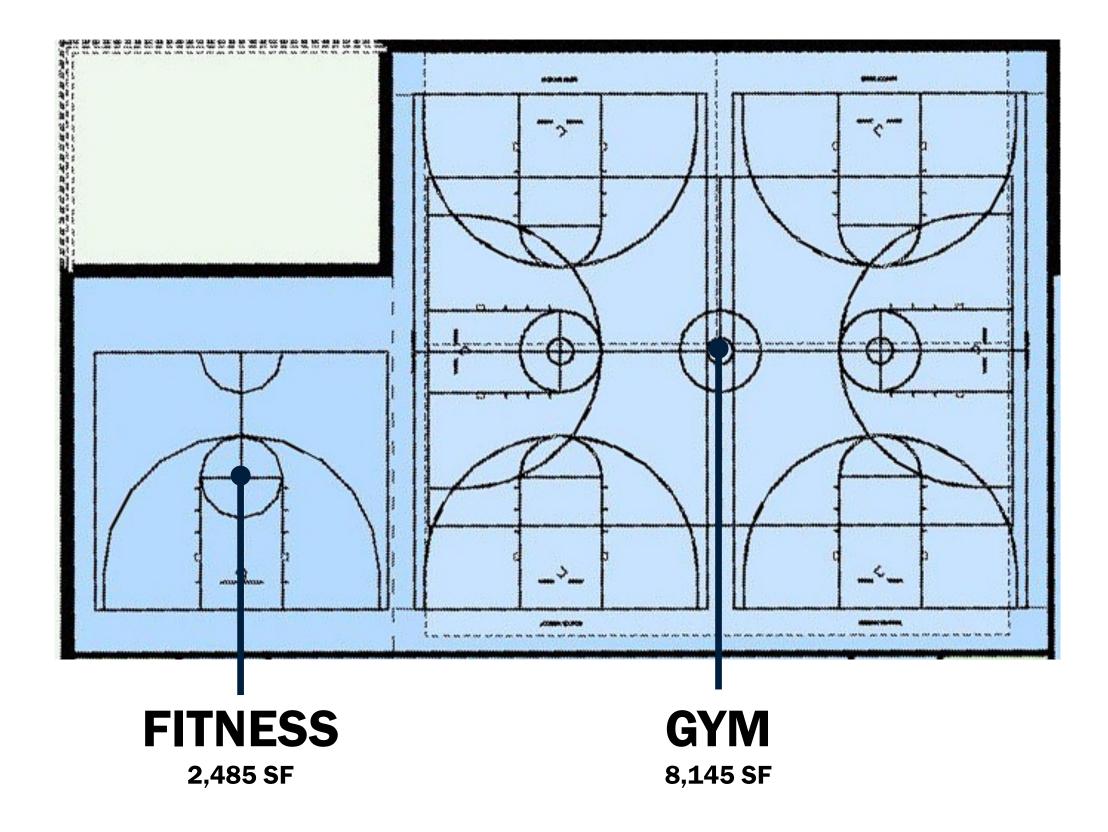






GYM SIZED PER ENROLLMENT

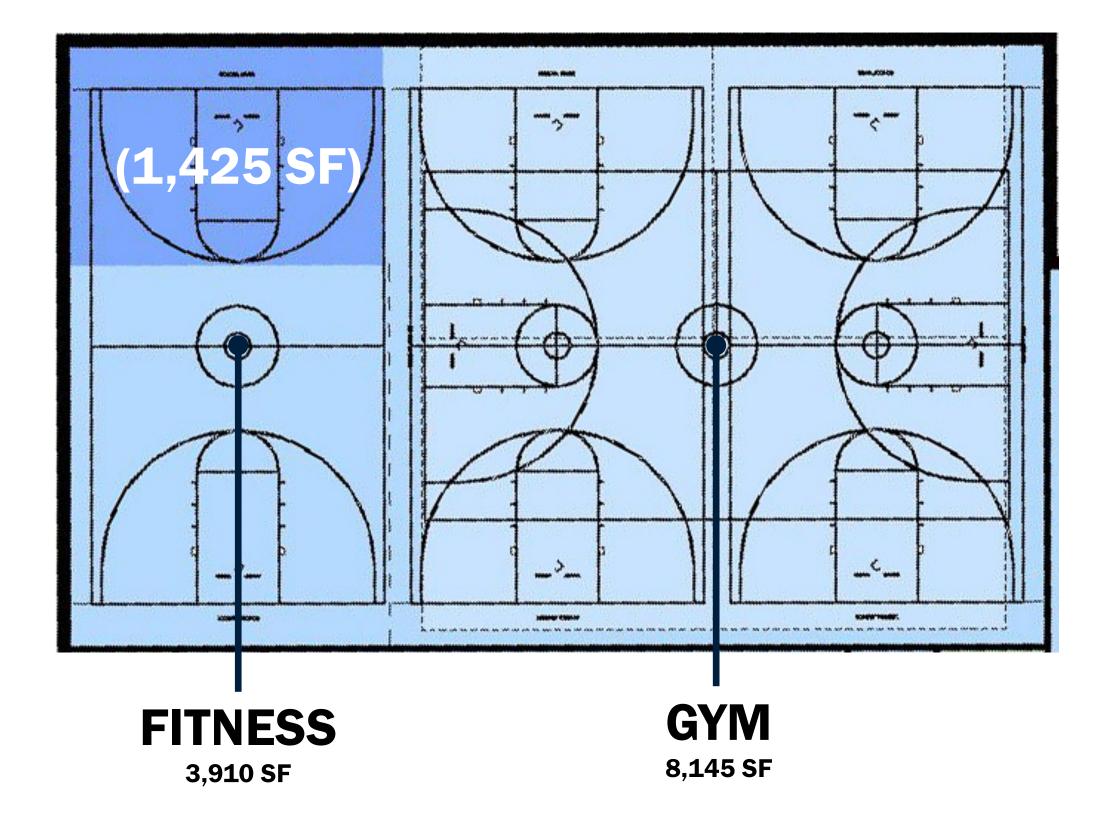
10,630 SF



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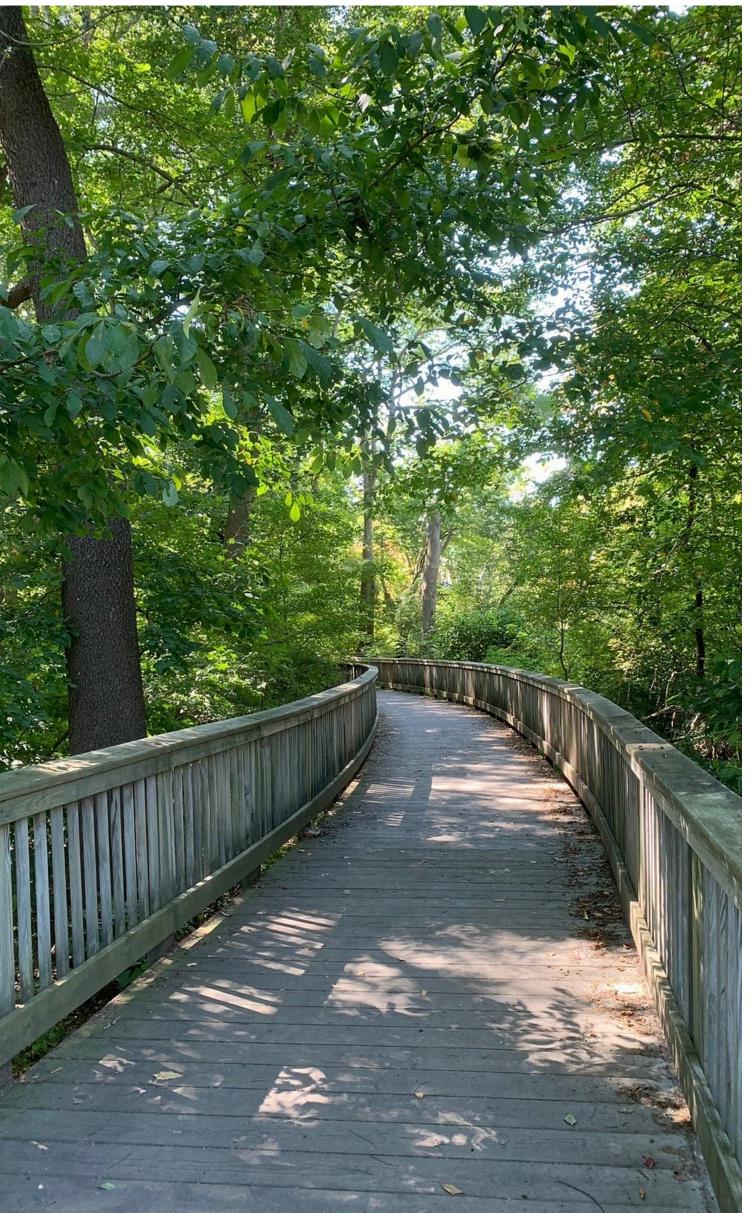
LARGER GYM

12,055 SF

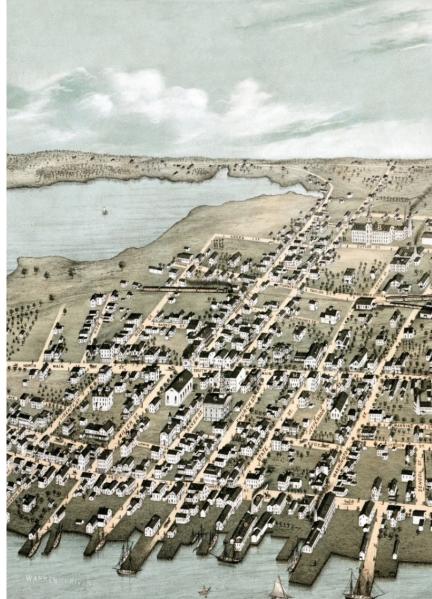


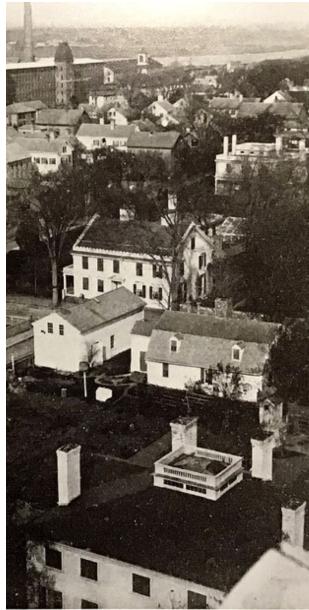


Inspiration











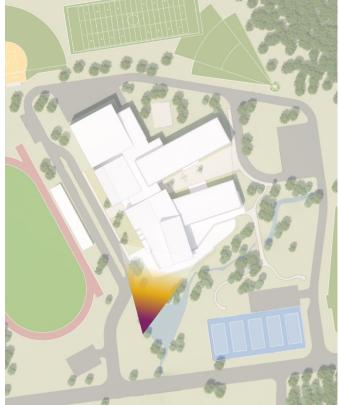




Student Commons | Café & Media

SILVER CREEK FACADE





-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

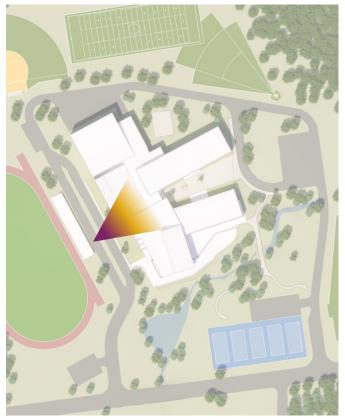
PERKINS-



Main Entry

WEST FAÇADE CAR DROP-OFF

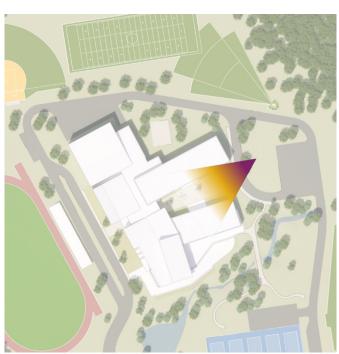




PERKINS —

Courtyard Entry

EAST FAÇADE BUS LOOP





PERKINS —

NEXT STEPS





Key Dates	15Sep23 18Sep23 07Nov23 19Dec23 30Dec23	 RIDE Stage Board of E Project Fue RIDE Stage Construction
Upcoming	17Aug23 23Aug23 23Aug23 28Aug23 07Sep23	 Geotechnic Bristol Tow Community School Cor Historic Dis

e II Submission Deadline Elections Approval of Referendum Question(s) **Inding Authorization Vote** Je II Approval Target tion Manager Award

ical Borings @ MHHS wn Council Presentation (Bradford St Discussion) ty Forum & MHHS Tours (Class of 2027 Welcoming Night) mmittee Meeting istrict Commission









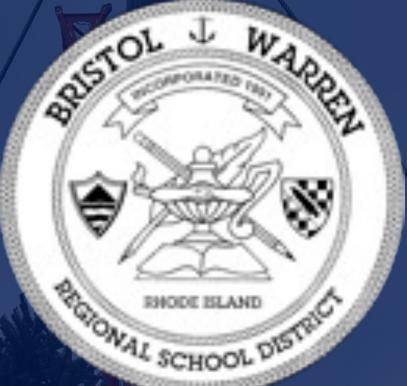






QUESTIONS? THANK YOU!

PERKINS EASTMAN





✓ Bond Counsel Retained

- Letters of Support (Bristol Council, Warren Council, Joint FinCom) Referendum Question Finalized (IN PROCESS)
- Board of Canvassers Meeting Posted (48 hrs prior to mtg)
- Board of Canvassers Certification of Ballot (9/18/23 Deadline)
- Questions sent to Secretary of State for Final Approval (9/18/23) Deadline)
- Publication of Local Questions (per R.I. Gen. Laws §17-8-10) Project Funding Authorization Vote – NOVEMBER 07, 2023

- EASTMAN BRISTOL WARREN SCHOOL DISTRICT

PERKINS-

