

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



PERKINS — EASTMAN

BUILDING COMMITTEE | 08.10.2023



I.	<b>OPEN</b>	MEETING
----	-------------	---------

- 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 23<sup>rd</sup> Forum (Class of 2027 Welcoming) 1. Tours of Recently Built Schools

## **RIDE PROCESS OVERVIEW**

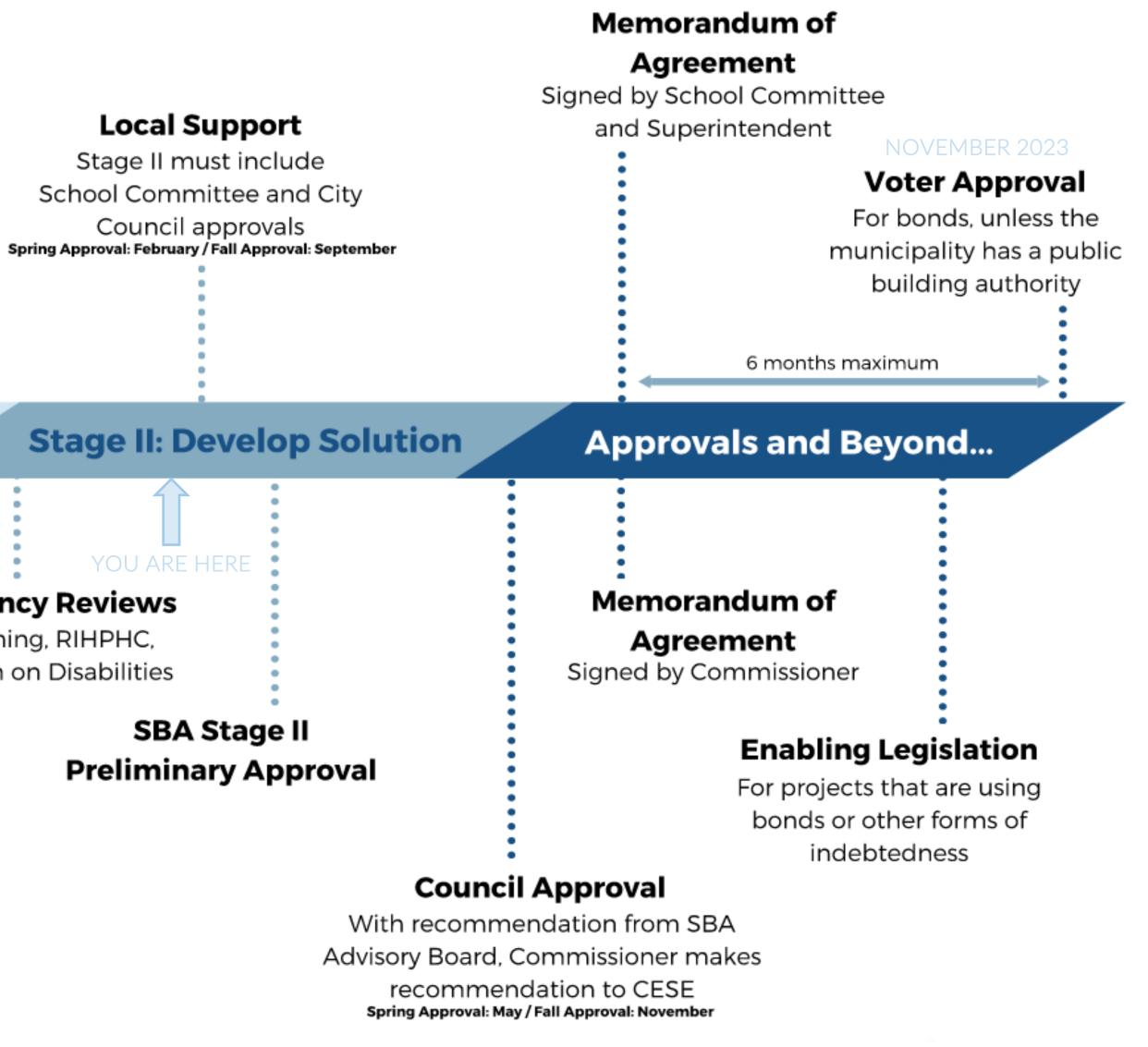
### Identify your team

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

The second se





## STAGE II PROGRESS UPDATE

23Jul 23	- Warren Concert Series
26Jul 23	<ul> <li>Hope &amp; Main Schoolyard Market</li> </ul>
27Jul 23	- Building Committee (RIDE Presentation)
27Jul 23	- AE/OPM Coordination Meeting: Weekly
30Jul 23	- Warren Concert Series
01Aug23	<ul> <li>Enrollment Review with Urbanomics</li> </ul>
02Aug23	<ul> <li>Integrated Design Meeting (Building Systems)</li> </ul>
02Aug23	<ul> <li>Hope &amp; Main Schoolyard Market</li> </ul>
03Aug23	<ul> <li>AE/OPM Coordination Meeting: Weekly</li> </ul>
03Aug23	- RIDE Stage II Check-in #2
07Aug23	<ul> <li>Integrated Design Meeting (NE-CHPS)</li> </ul>
09Aug23	<ul> <li>Hope &amp; Main Schoolyard Market</li> </ul>
10Aug23	- HS Programming Meeting
10Aug23	- Building Committee
10Aug23	<ul> <li>AE/OPM Coordination Meeting: Weekly</li> </ul>
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	<ul> <li>Planning Dept Technical Review Committee</li> </ul>
TBD	<ul> <li>Integrated Design Meeting (Security)</li> </ul>
28Aug23	- School Committee Meeting
07Sep23	- Historic District Commission
15Sep23	<ul> <li>RIDE Stage II Submission Deadline</li> </ul>
18Sep23	- Board of Elections Approval of Referendum Quest

Since Last SBC Meeting

Upcoming

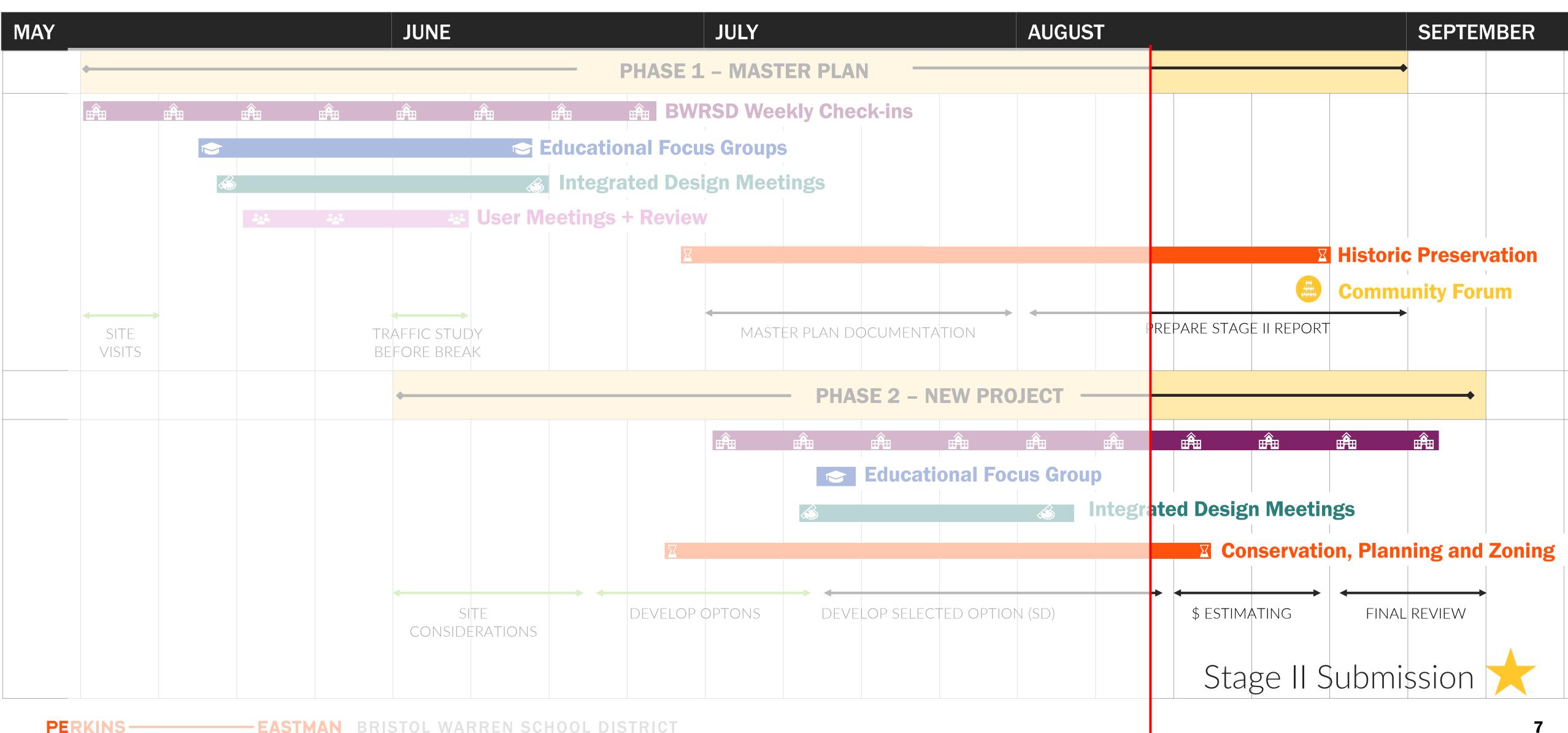
Discussion) 27 Welcoming Night)

stion(s)





# **Proposed Schedule - Summer**



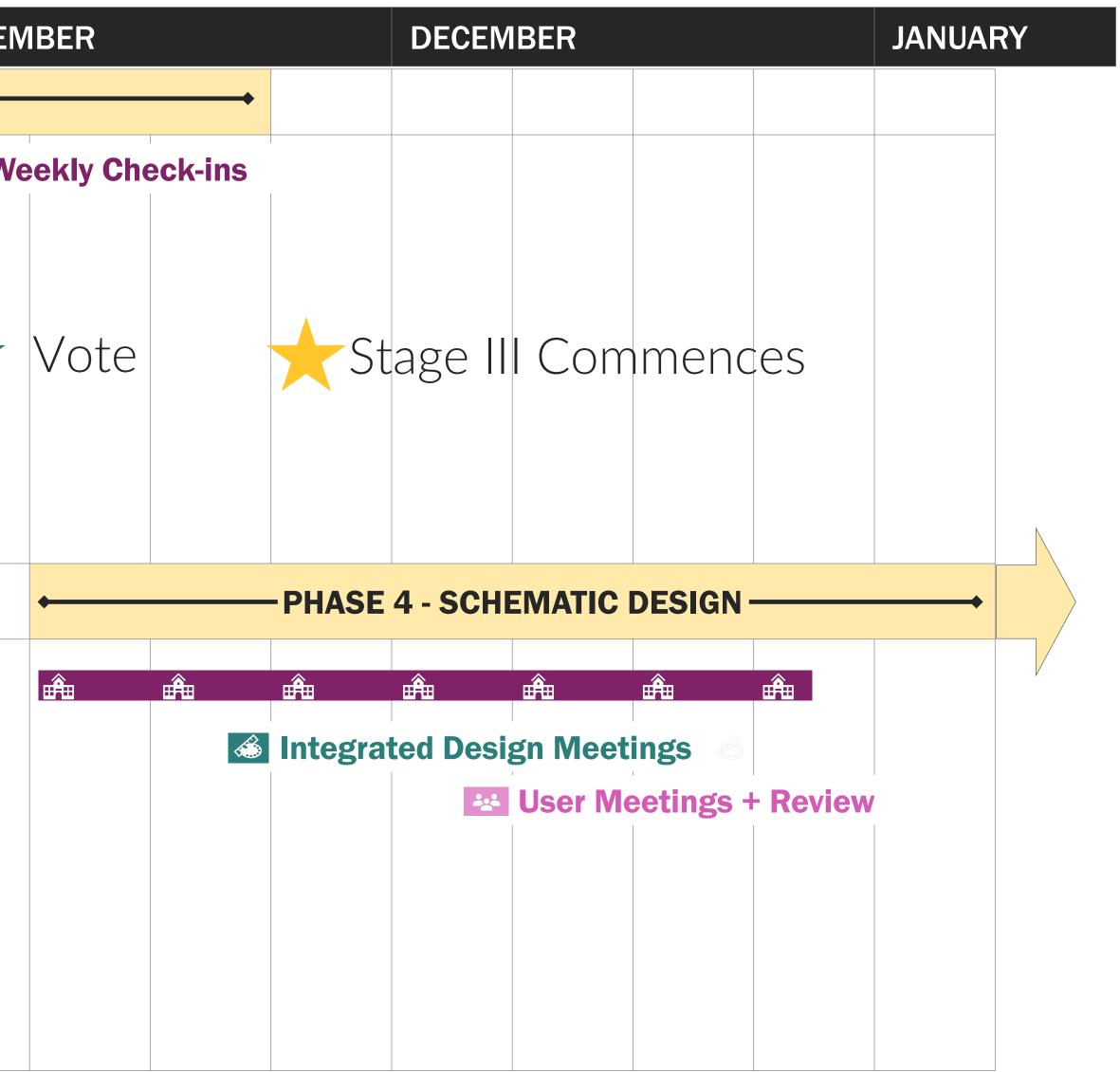
**PERKINS-**

-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

# **Proposed Schedule - Fall**

SEPTER	MBER			остов		NOVE				
<b></b>										
	Â	Ĥ	Ĥ	Ĥ	Â	Ĥ	Ĥ	BWRSD W		
		<b>***</b> *********************************	Commu	unity For	um					
	•									
			CM S	ELECTION						

**PERKINS EASTMAN** BRISTOL WARREN SCHOOL DISTRICT





## 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 10<sup>th</sup>
- Geo-environmental Studies are underway (draft to issued this week)
- Town Council Proposed option for Colt Andrews to be reviewed by on August 23<sup>rd</sup>
- Technical review meeting with Town Departments application submitted on August 10<sup>th</sup>
- 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 14<sup>th</sup>
- Geo-technical Drilling on August 17<sup>th</sup> and 18<sup>th</sup>
- Town Council Meeting August 23<sup>rd</sup>
- 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

**PERKINS-**



# **RECAP OF RIDE STAGE II CHECK-IN**

STATUTE OF THE OWNER WATER OF THE OWNER OF THE OWNER OF THE OWNER WATER OF THE OWNER WATER OF THE OWNER WATER OF THE OWNER OWNER OF THE OWNER OWNE

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

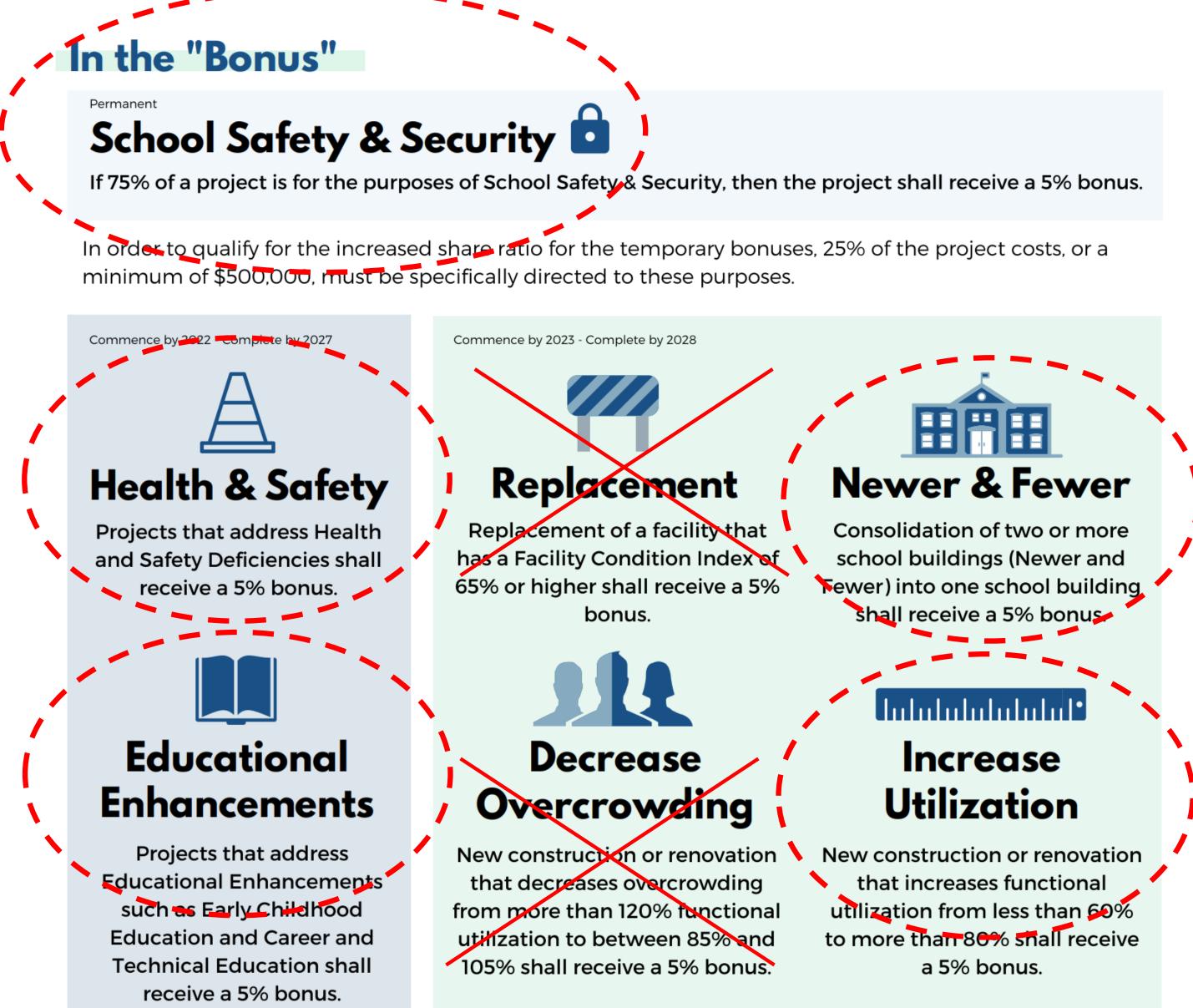


## MAXIMIZING FUNDING



# 63% Base

# + up to 20% Bonus





# Systems Updates

And A REAL PROPERTY AND ADDRESS OF THE REAL PROPERTY ADDRESS O







- 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
---	-----------

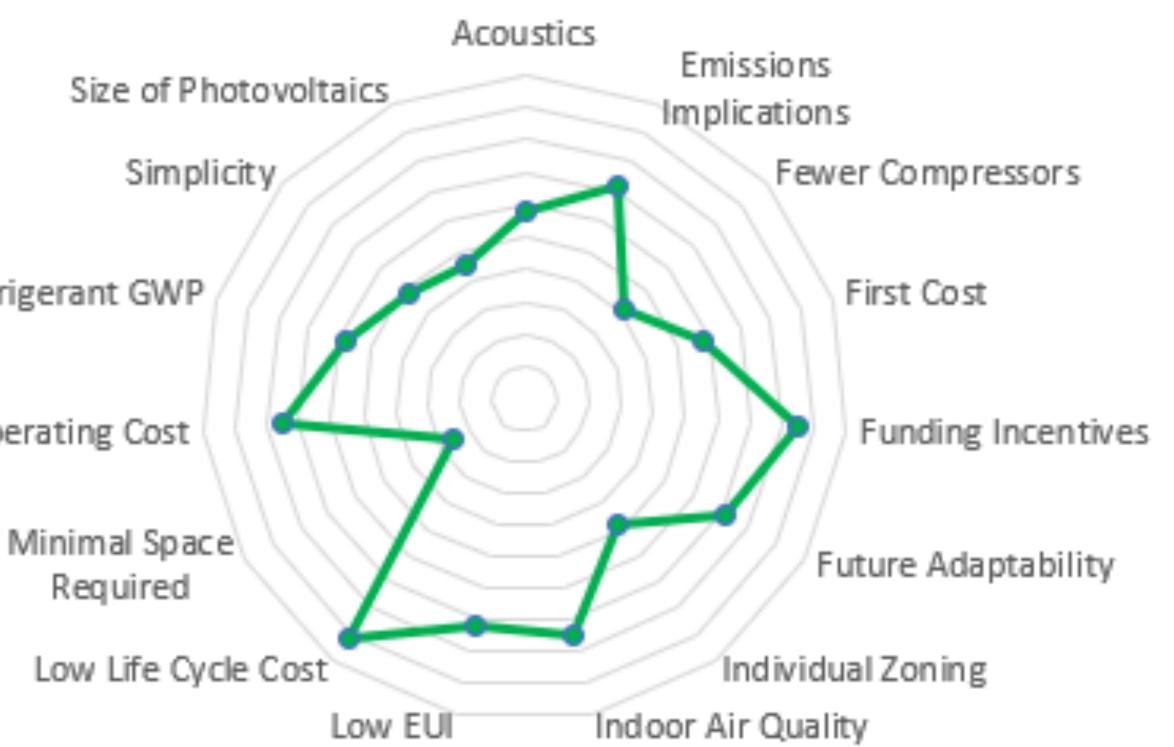
- First Cost
- Refrigerant GWP
- Individual Zoning •
- Fewer Compressors
- Simplicity
- PV Size

### Low Priority

Minimal Space Required 

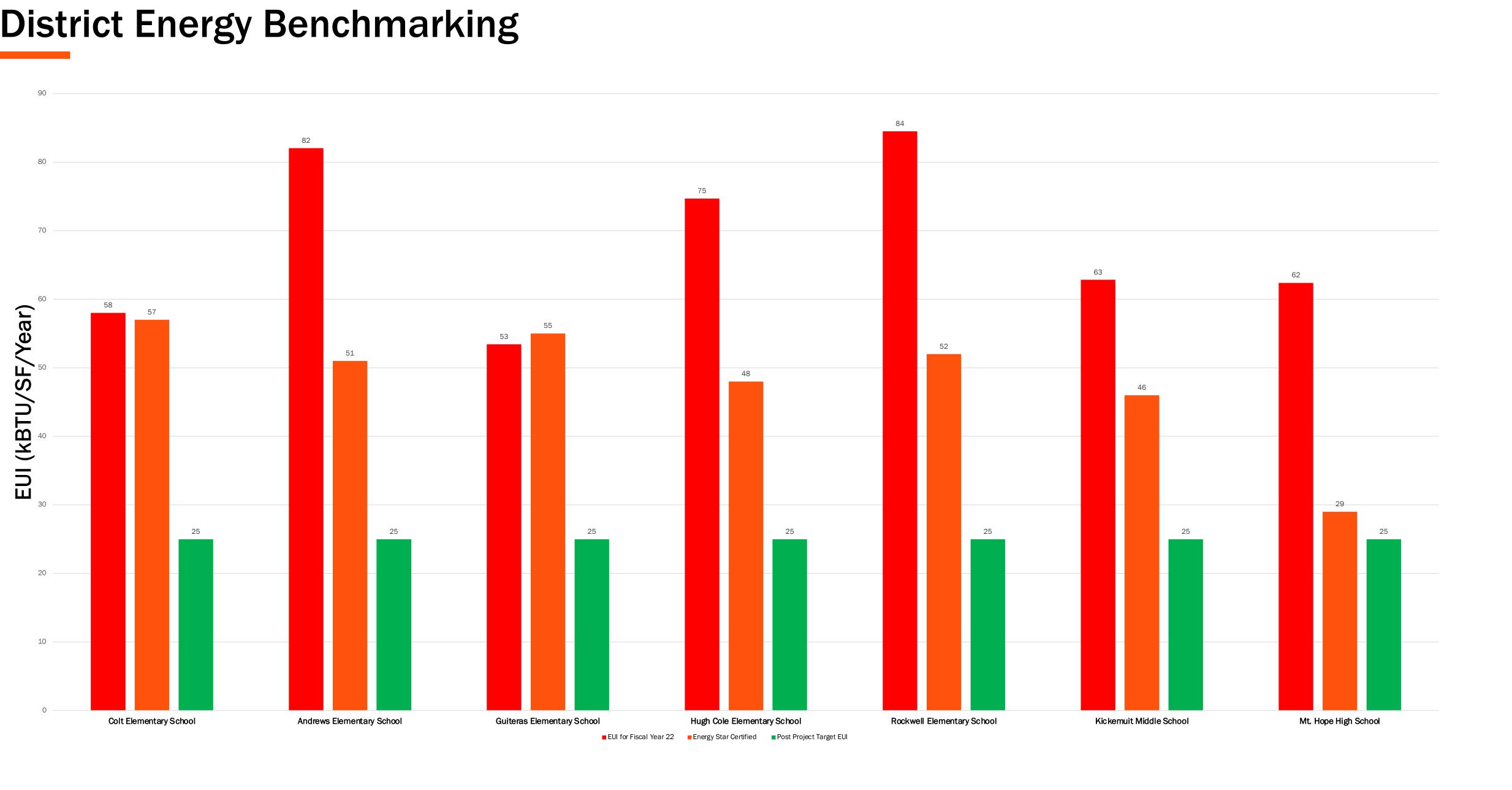
Refrigerant GWP

Operating Cost





## **District Energy Benchmarking**



PERKINS-

-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

17

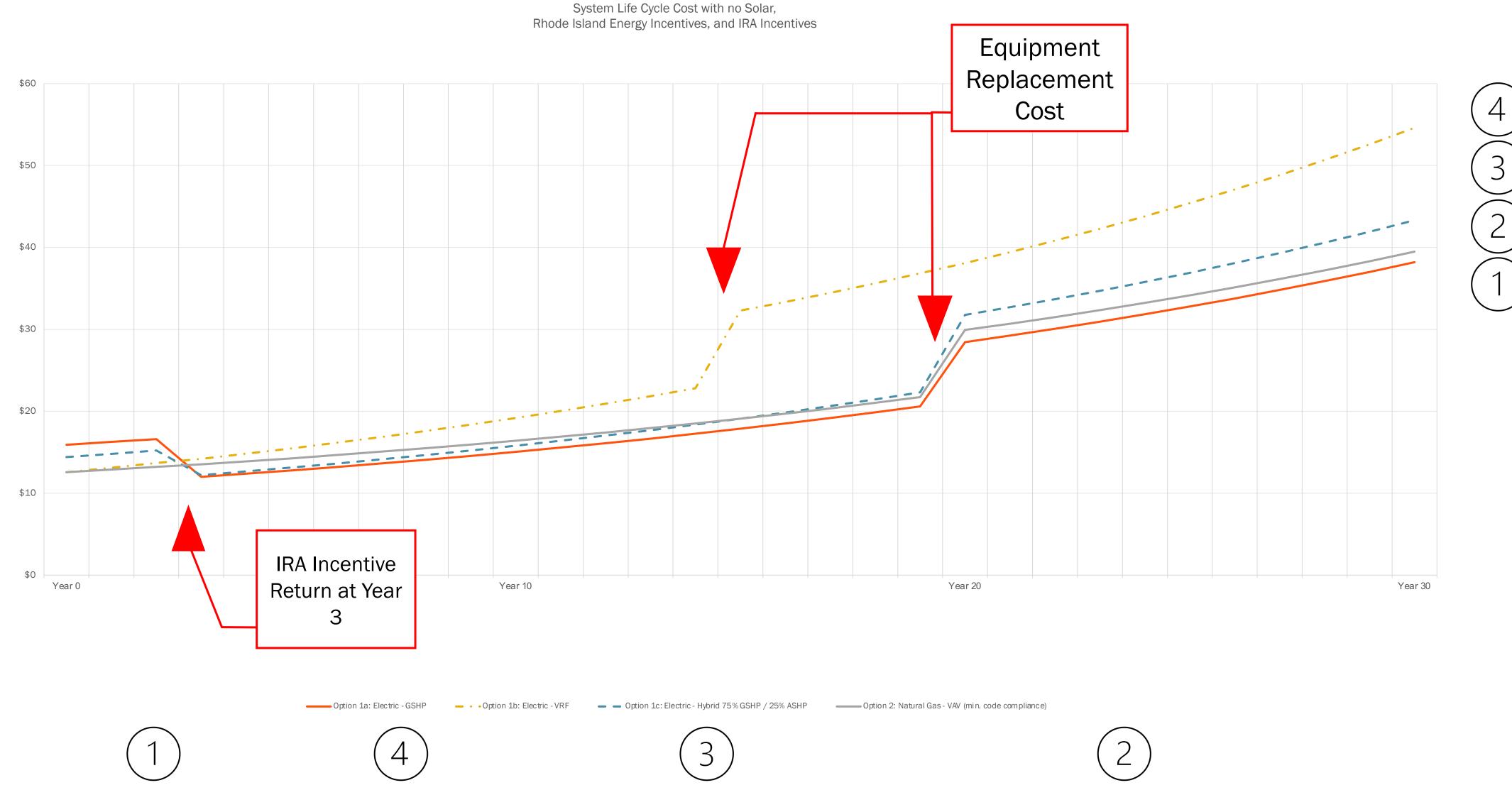
	Option 1a – Electric GSHP	Option 1b - Electric VRF	Option 1c – Electric GSHP / ASHP	Option 2 – Natura Gas - VAV
Heating Source	Ground Source	Air Source	Ground & Air Source	
Cooling Source	Ground Source	Air Source	Ground & Air Source	
Distribution	Heat Pump Unit	Ceiling Cassette	Heat Pump Unit	



# 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



-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

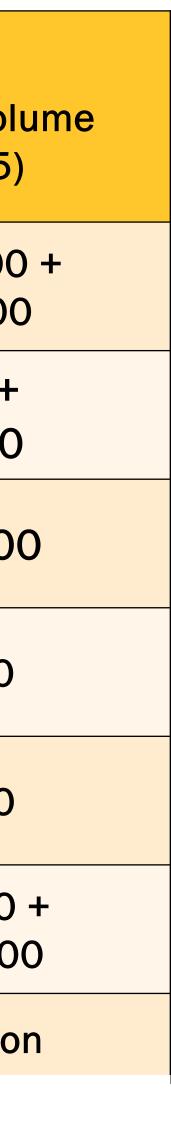




# System Analysis with Solar PV

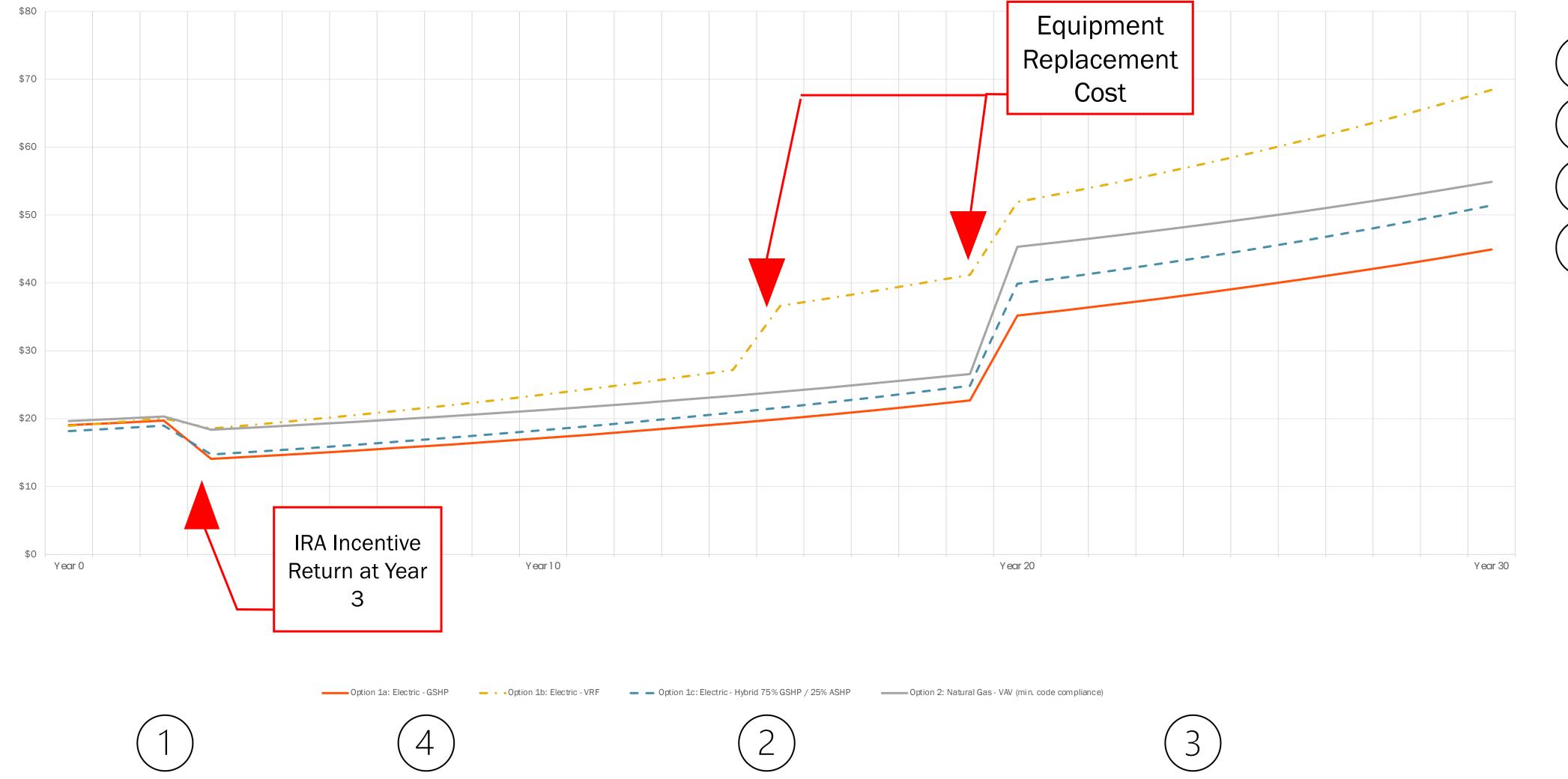
LCCA With Solar For Net Zero	Option 1a Ground Source Heat Pump (pEUI = 28)	Option 1b Air Source VRF (pEUI = 50)	Option 1c Hybrid GSHP/ASHP (pEUI = 34)	Option 2 Variable Air Volu (pEUI = 55)
Total Initial Investment	\$15,912,500 + \$3,124,000	\$12,562,500 + \$6,372,000	\$14,405,000 + \$3,749,000	\$12,562,500 \$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



-EASTMAN BRISTOL WARREN SCHOOL DISTRICT





# ES/MS Site Improvements

The second se

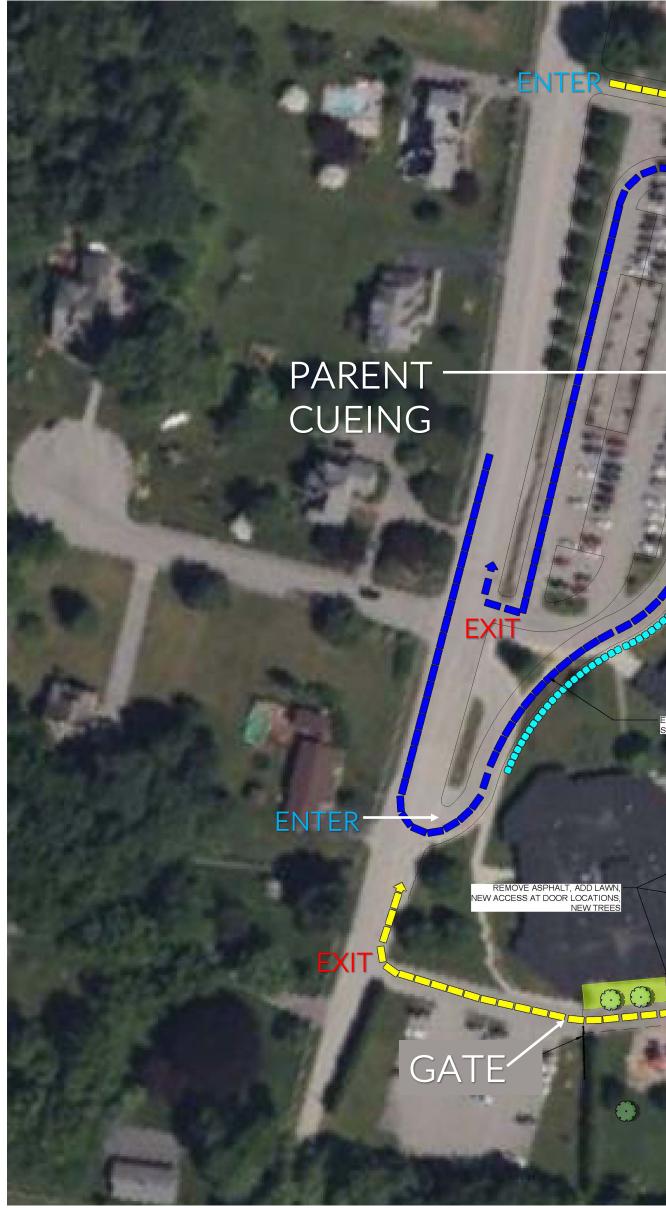






## **Hugh Cole Elementary School**

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





-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

### BUS CUEING

VICE AND EMERGENCY VEHI



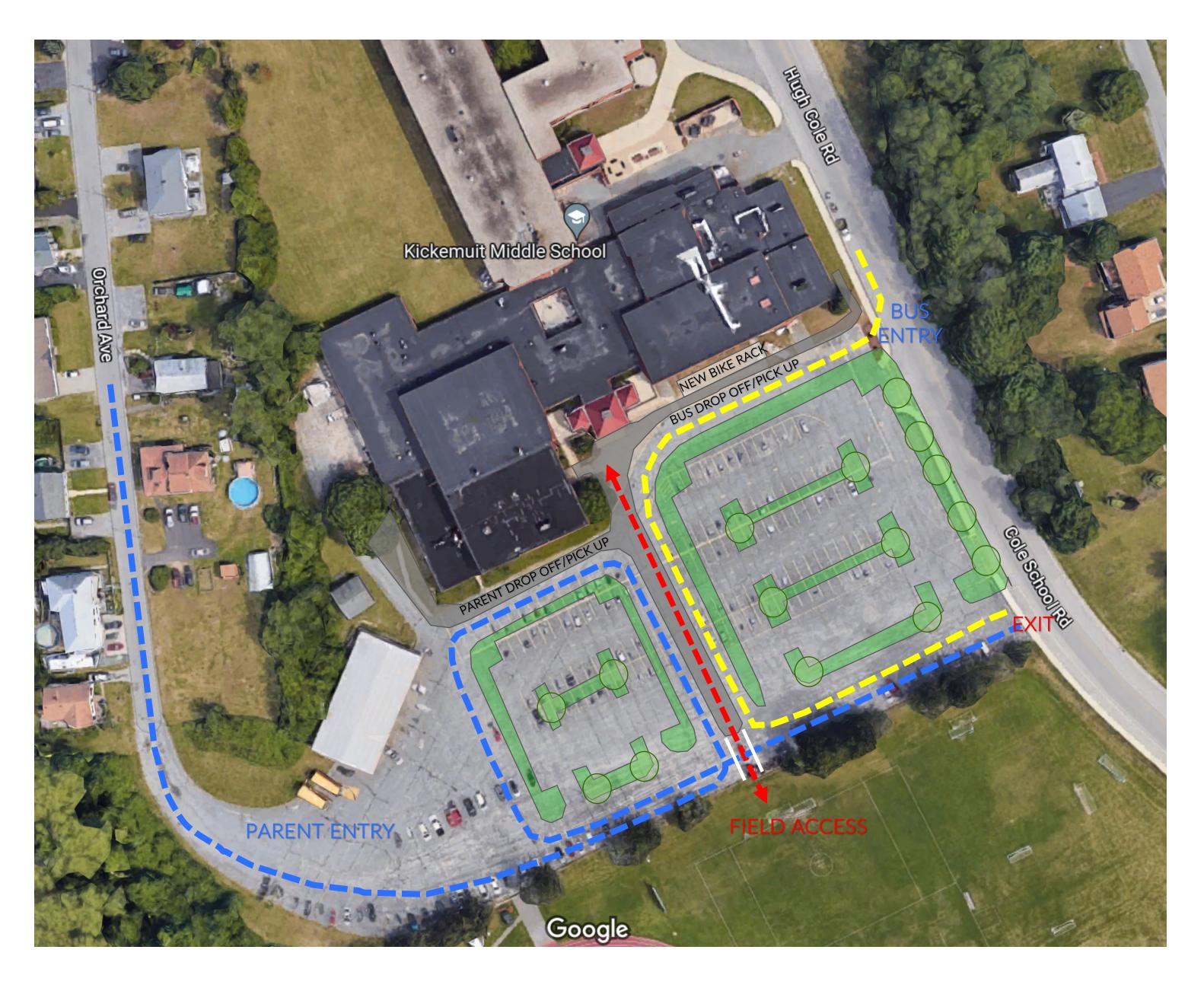
NEW SLIDE OR SWING GATE TO CONTROL ACCESS

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 <b></b> 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	- <b>3y</b>	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

PERKINS -----

-EASTMAN BRISTOL WARREN SCHOOL DISTRICT



# **Colt-Andrews Elementary School**

EXISTING PROGRAM (FY2023)

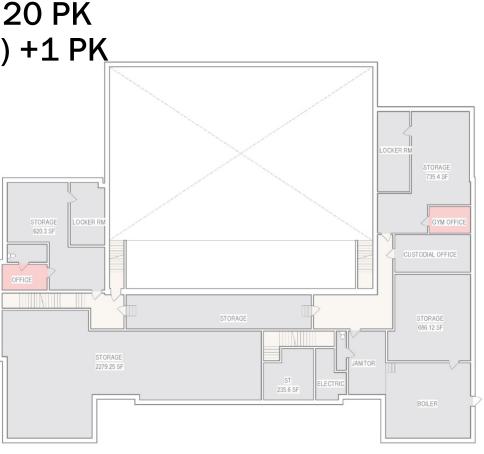
280 Students K-5 + 20 PK 13 CRs (2/Gr, 3/5<sup>th</sup>) +1 PK

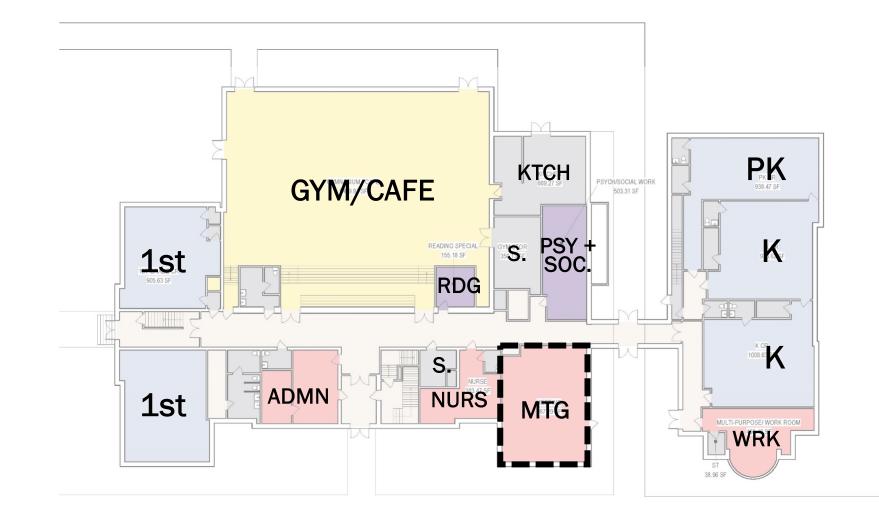
### 4 CRs Available



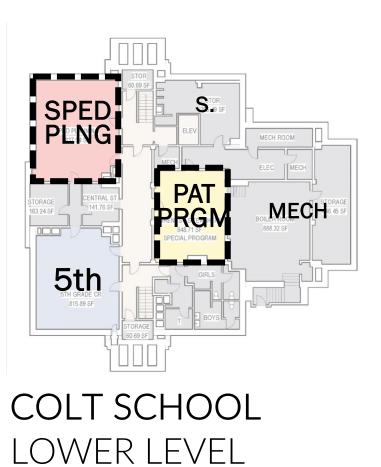
### ABBREVIATION LEGEND

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**-

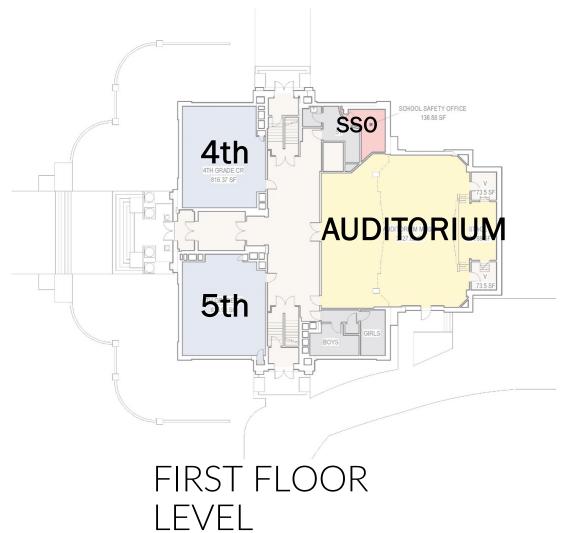




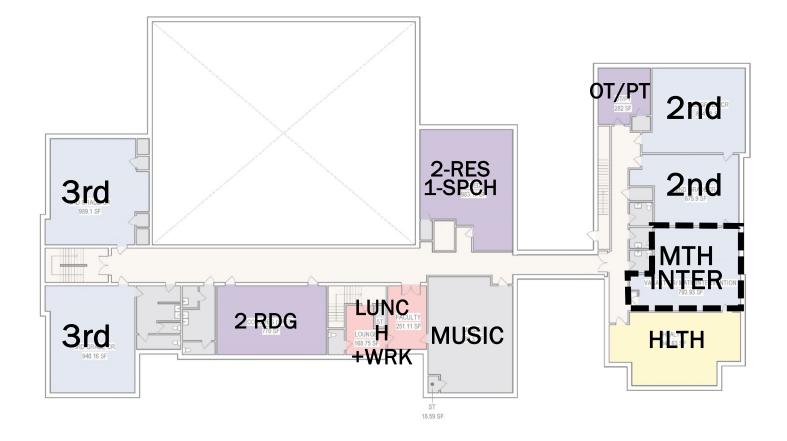
### ANDREWS SCHOOL BASEMENT LEVEL



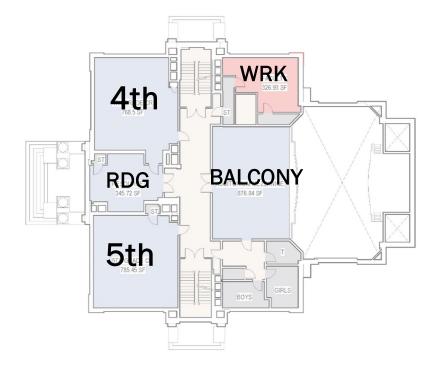
FIRST FLOOR LEVEL



**EASTMAN** BRISTOL WARREN SCHOOL DISTRICT

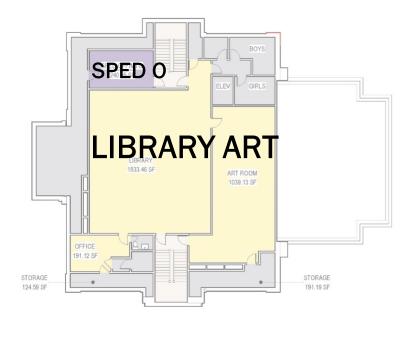


SECOND FLOOR LEVEL



SECOND FLOOR

LEVEL



THIRD FLOOR LEVEL

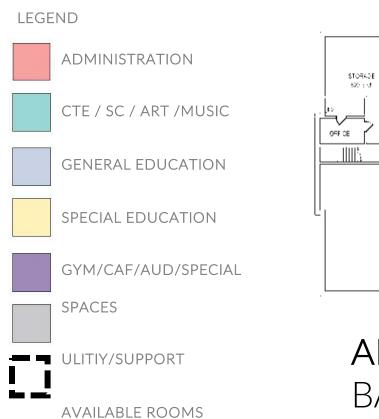


# **Colt-Andrews Elementary School**

PROJECTED PROGRAM (FY2028)

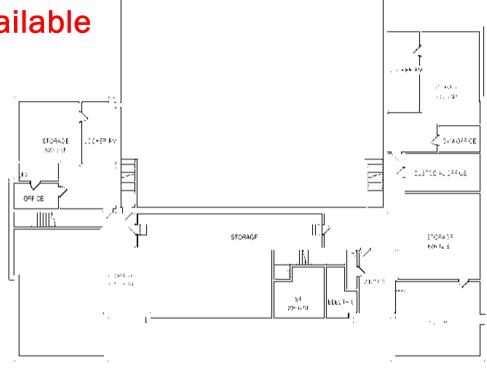
399 Students K-4 + 11 PK 20 CRs (4/Gr) +1 PK

### Health in CRs, 0 Available

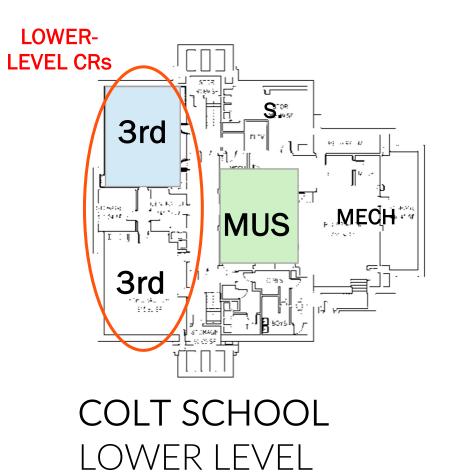


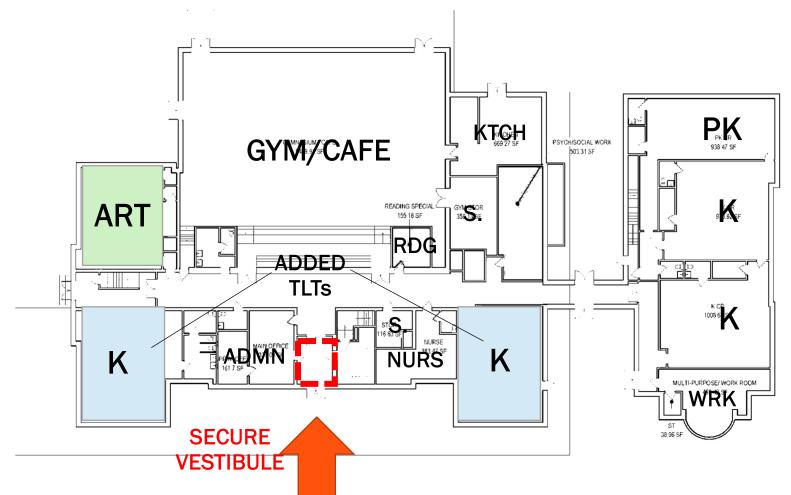
### **ABBREVIATION LEGEND**

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**-

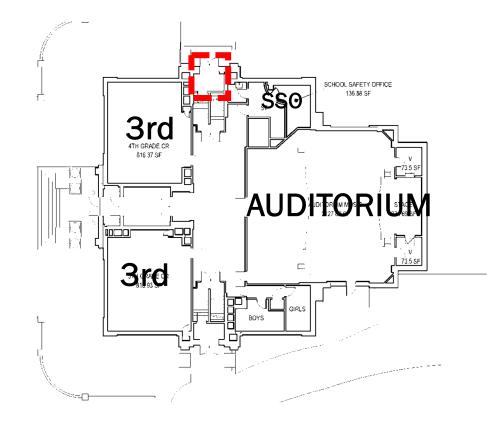


ANDREWS SCHOOL **BASEMENT LEVEL** 





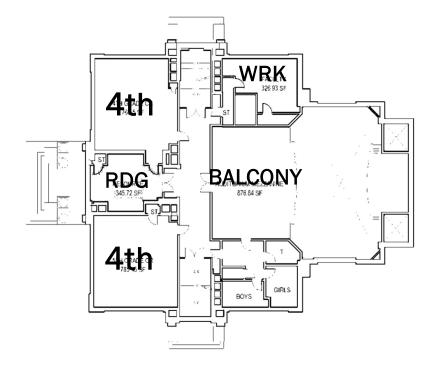
FIRST FLOOR LEVEL

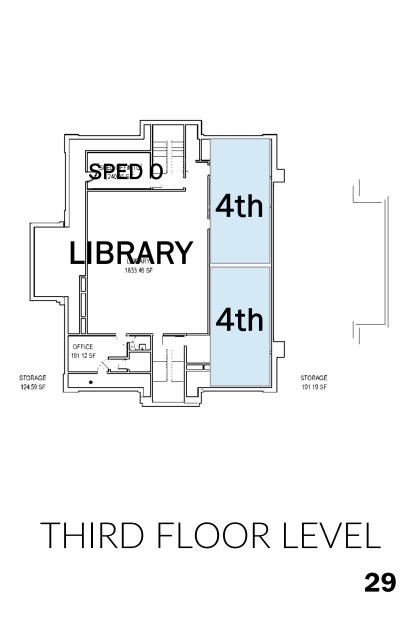


FIRST FLOOR

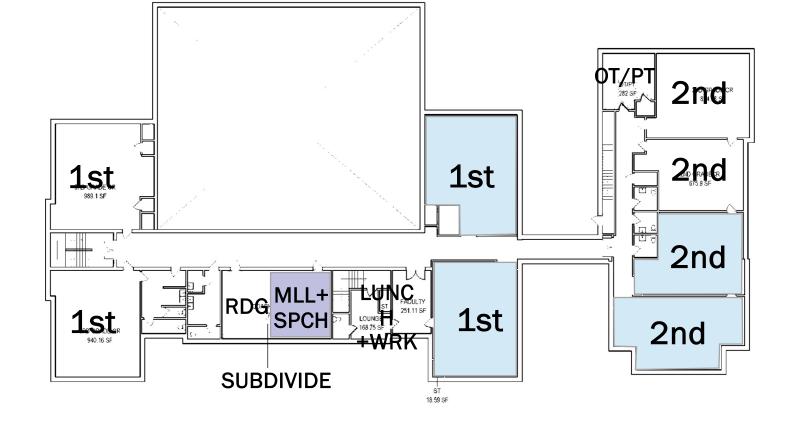
LEVEL **-EASTMAN** BRISTOL WARREN SCHOOL DISTRICT







SECOND FLOOR LEVEL



# **Colt-Andrews Elementary School**

### LOWER LEVEL CLASSROOM VS UPPER LEVEL LIBRARY SPACE

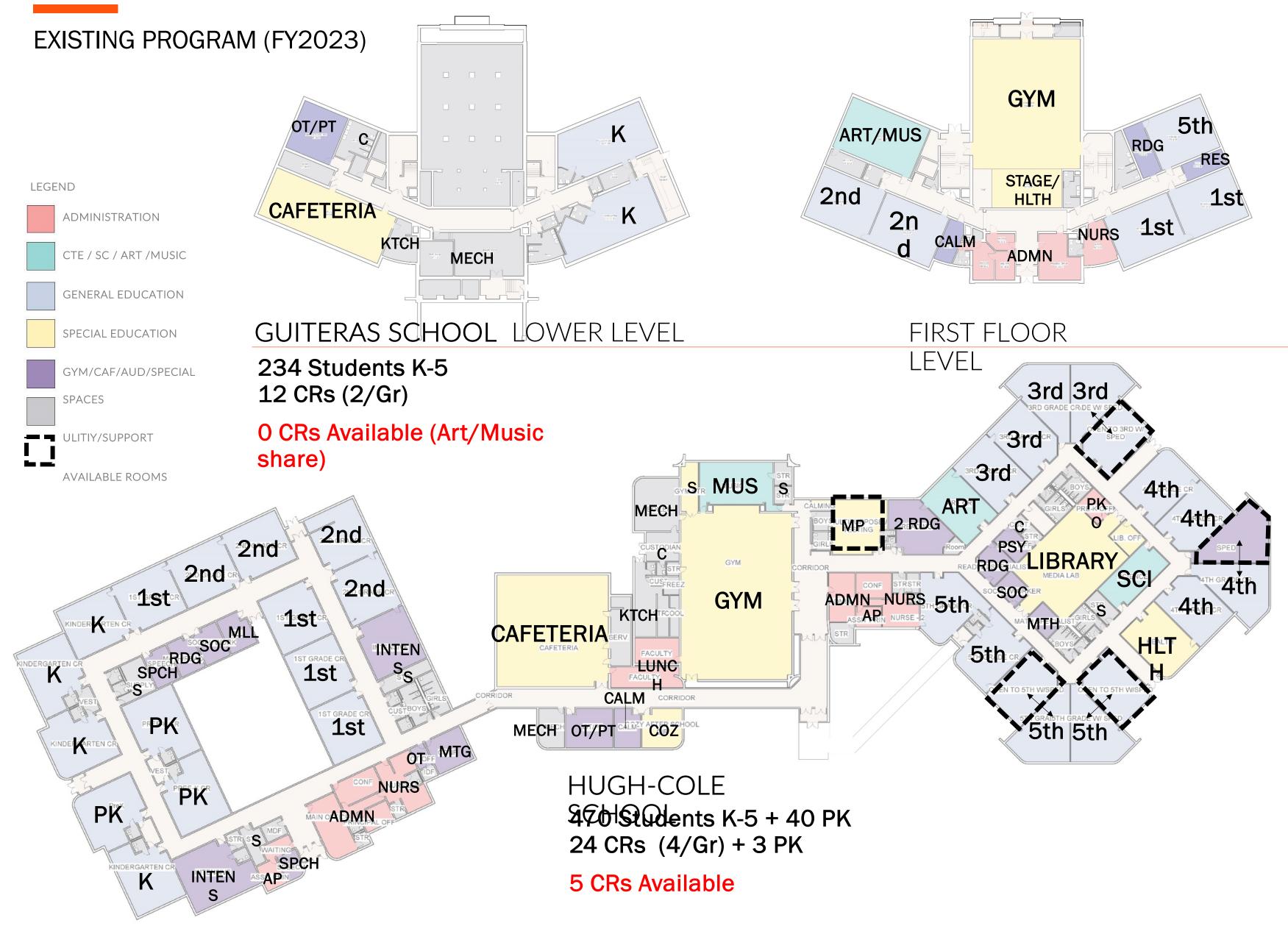


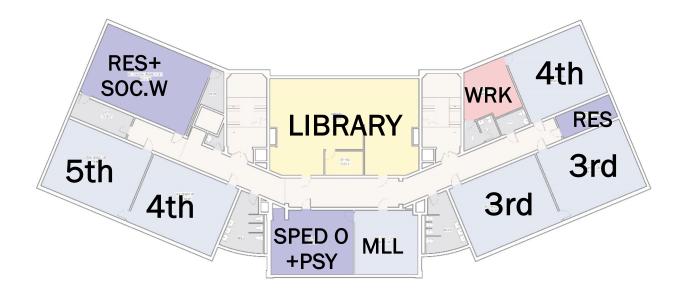
PERKINS-

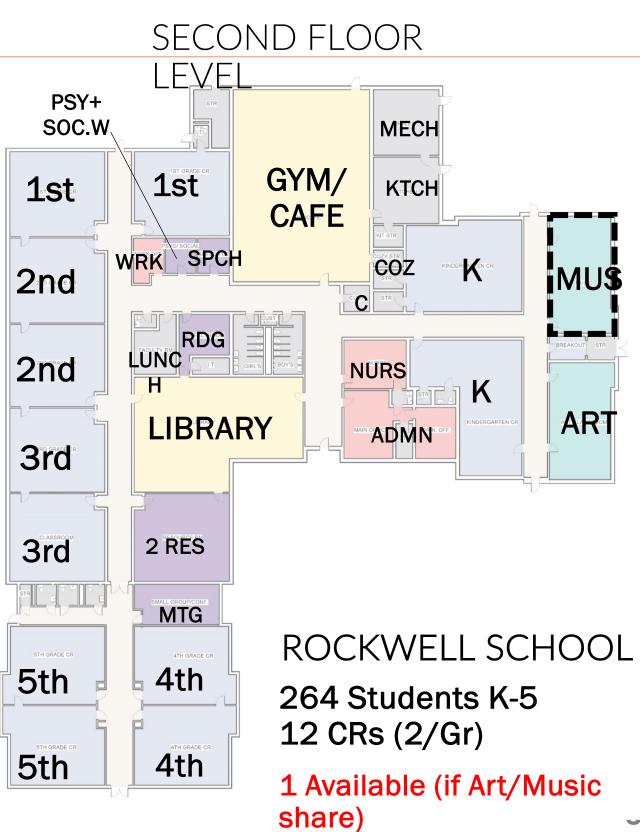
-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

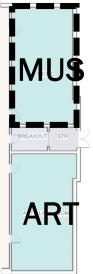


# Guiteras, Hugh-Cole & Rockwell







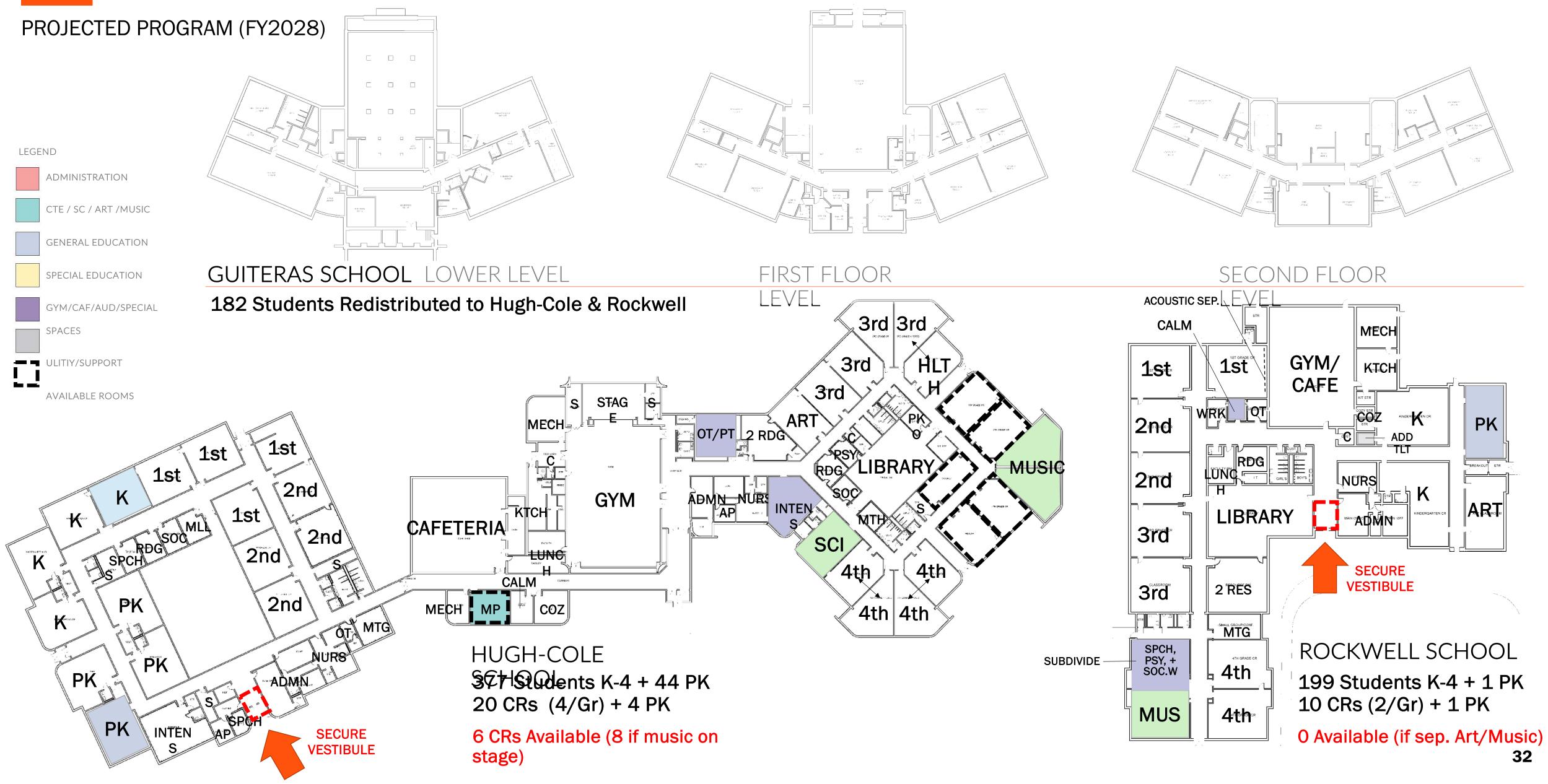


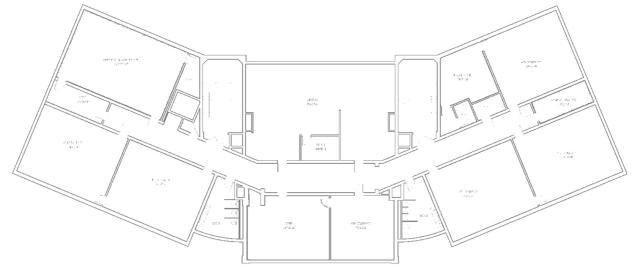


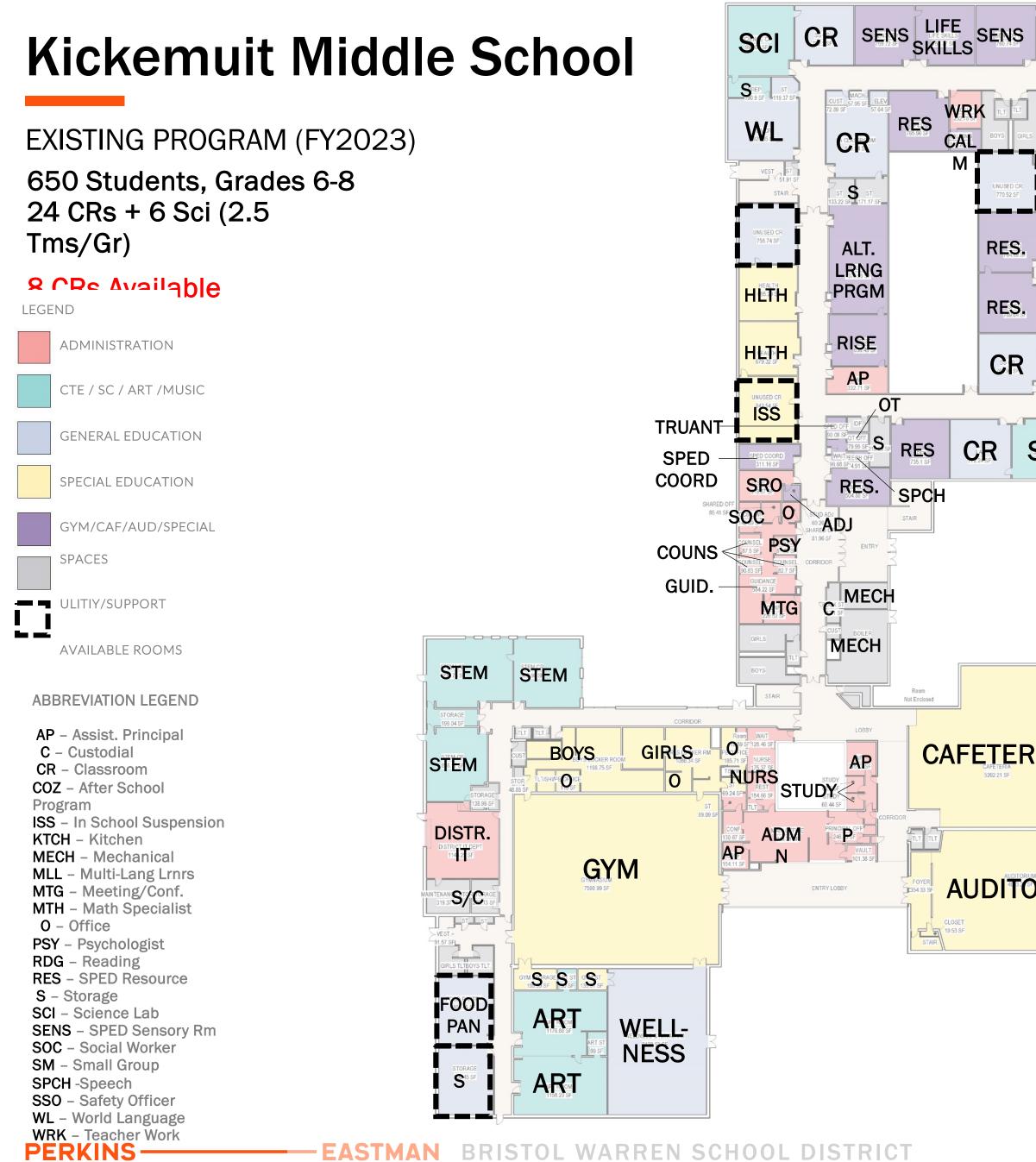


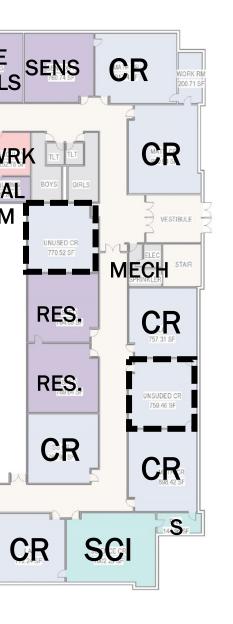


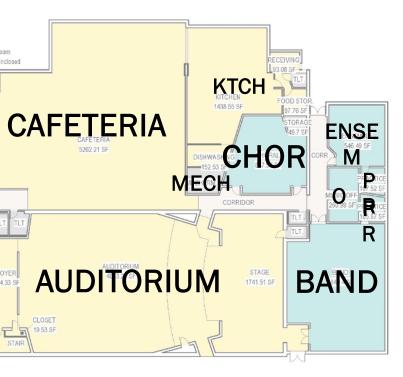
# Guiteras, Hugh-Cole & Rockwell

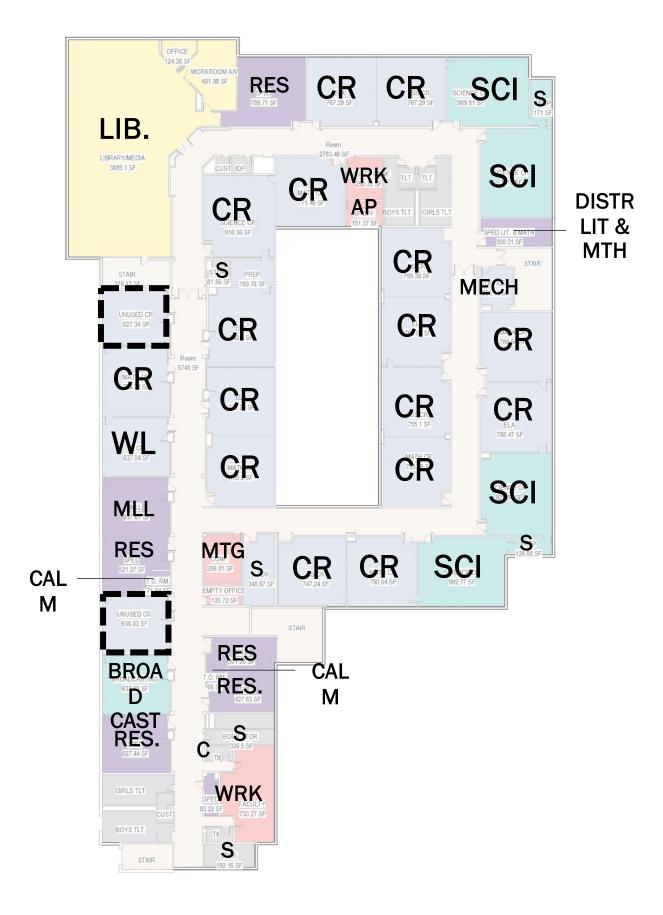






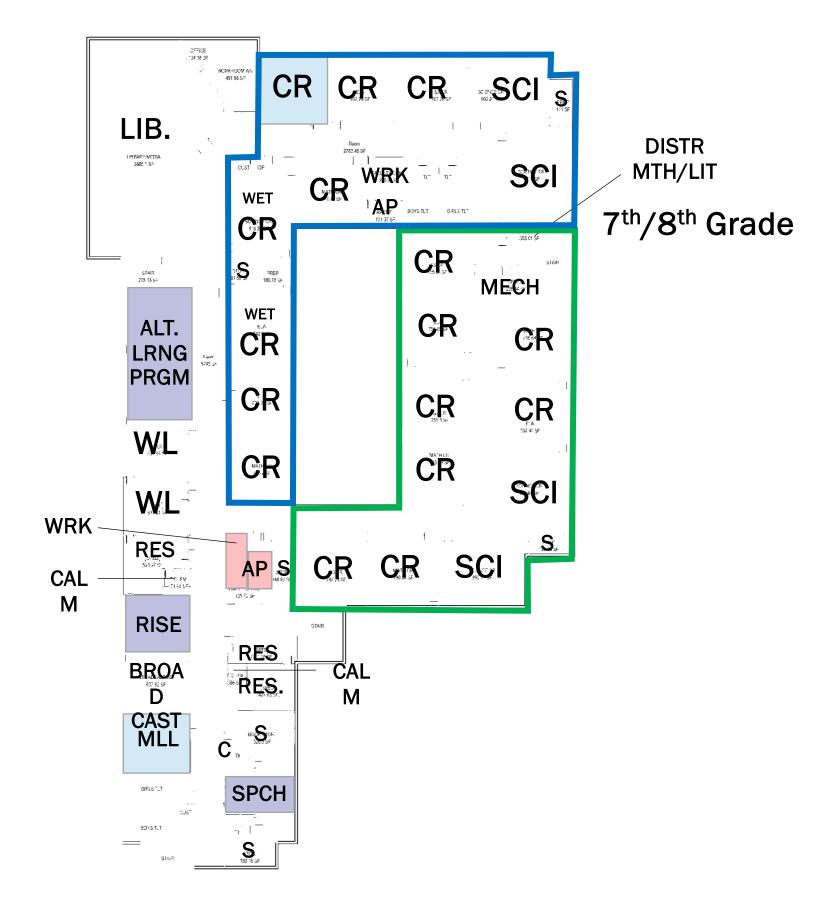












# COMMUNITY OUTREACH





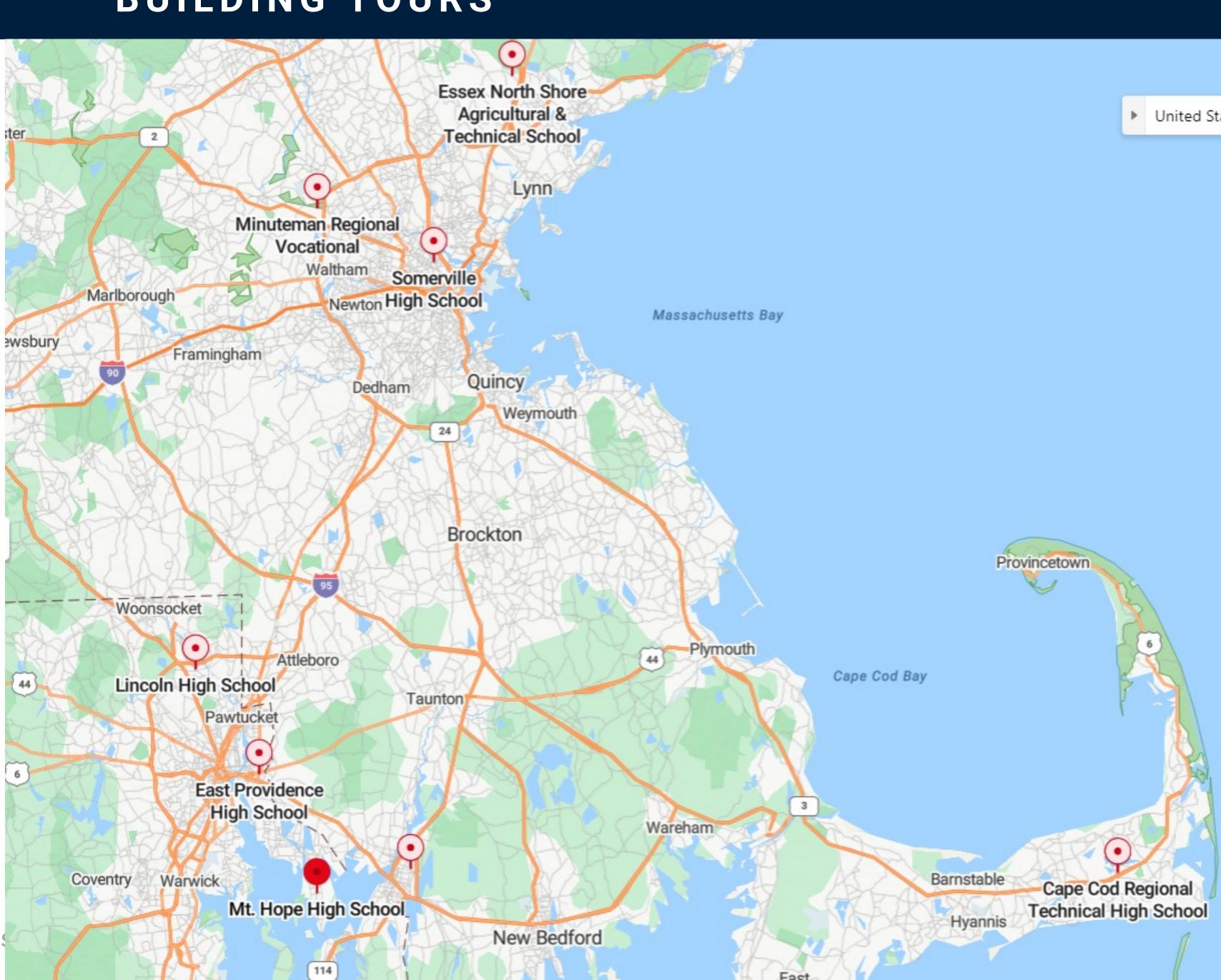


Community Website Updates Bristol Concert Series **Warren Concert Series** Hope & Main Schoolyard Markets Community Night Out (8/16) Class of 2027 Welcoming (8/23) Image: Market And American American

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

The second se

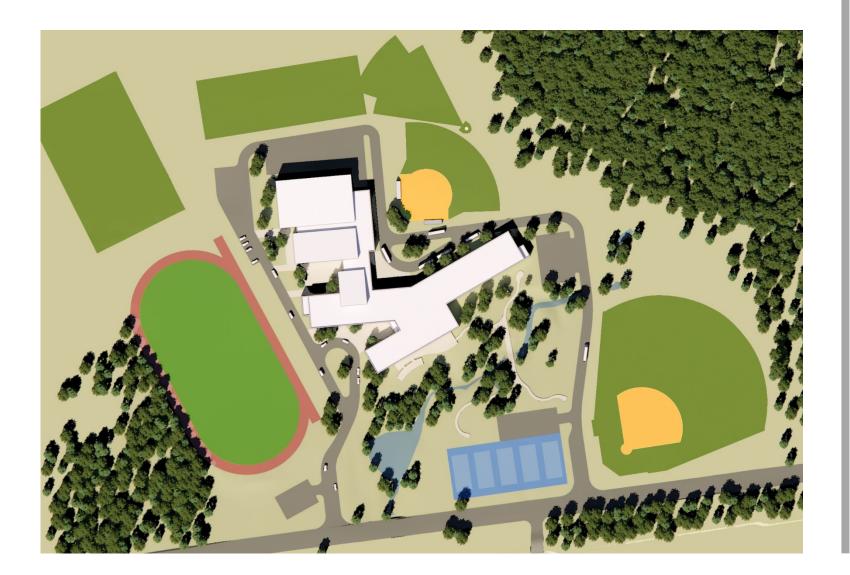


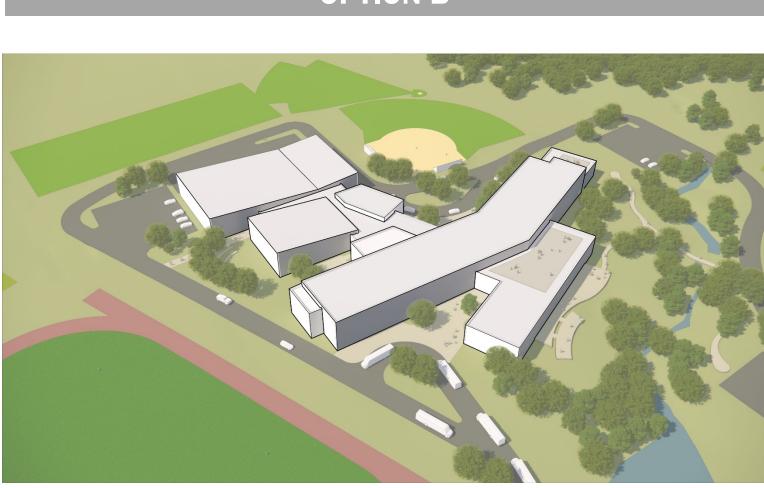




#### **OPTION A**



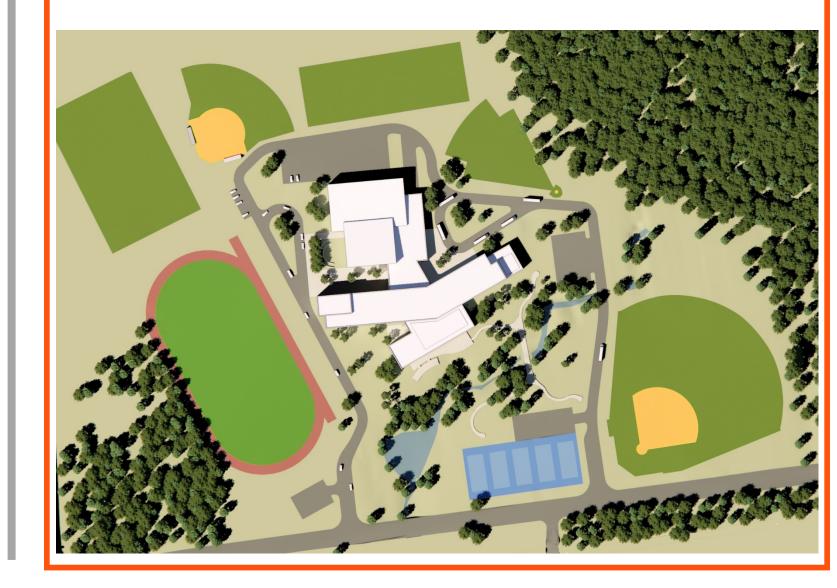






#### **OPTION B**

**OPTION C** 

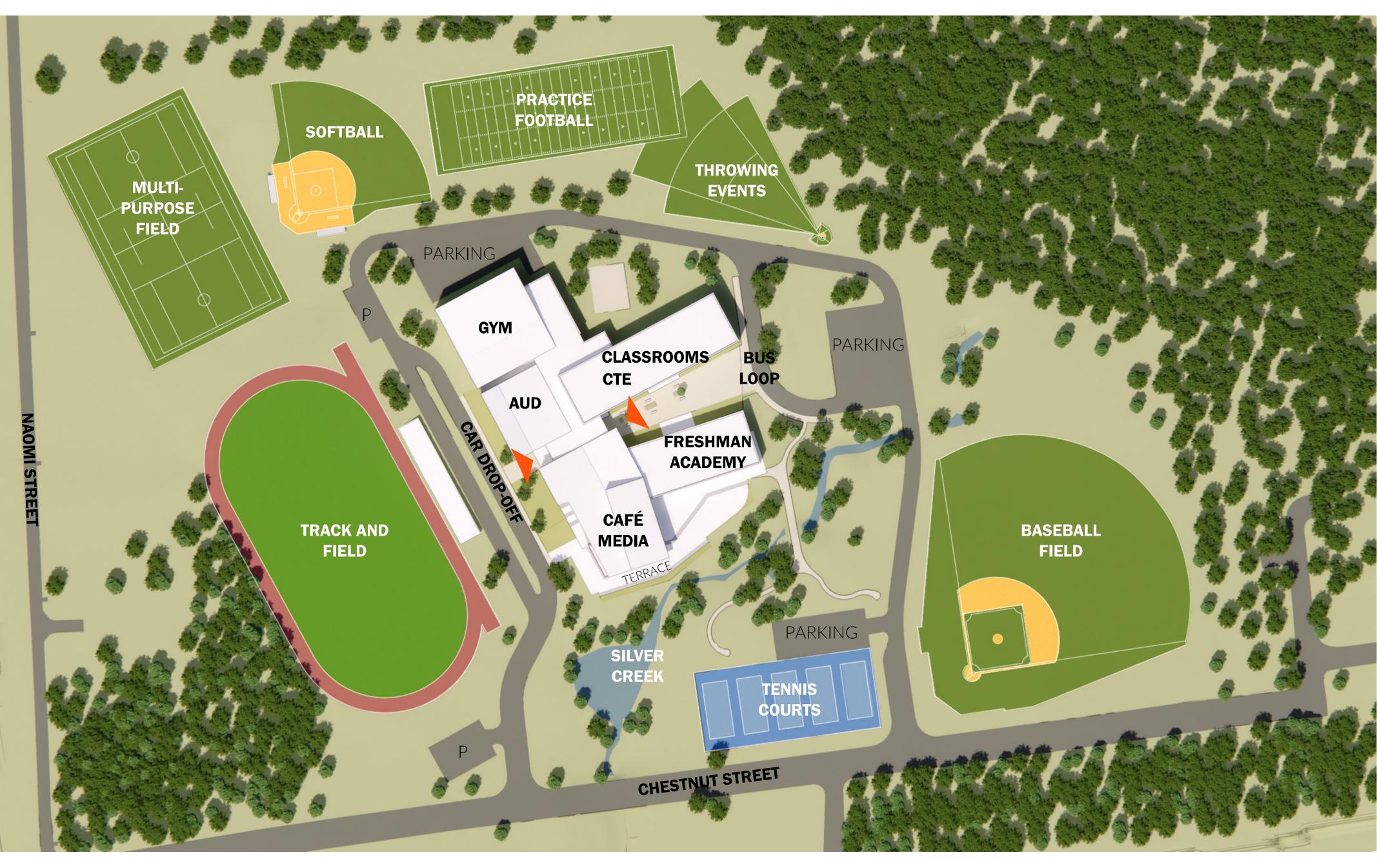








MOUNT HOPE HS

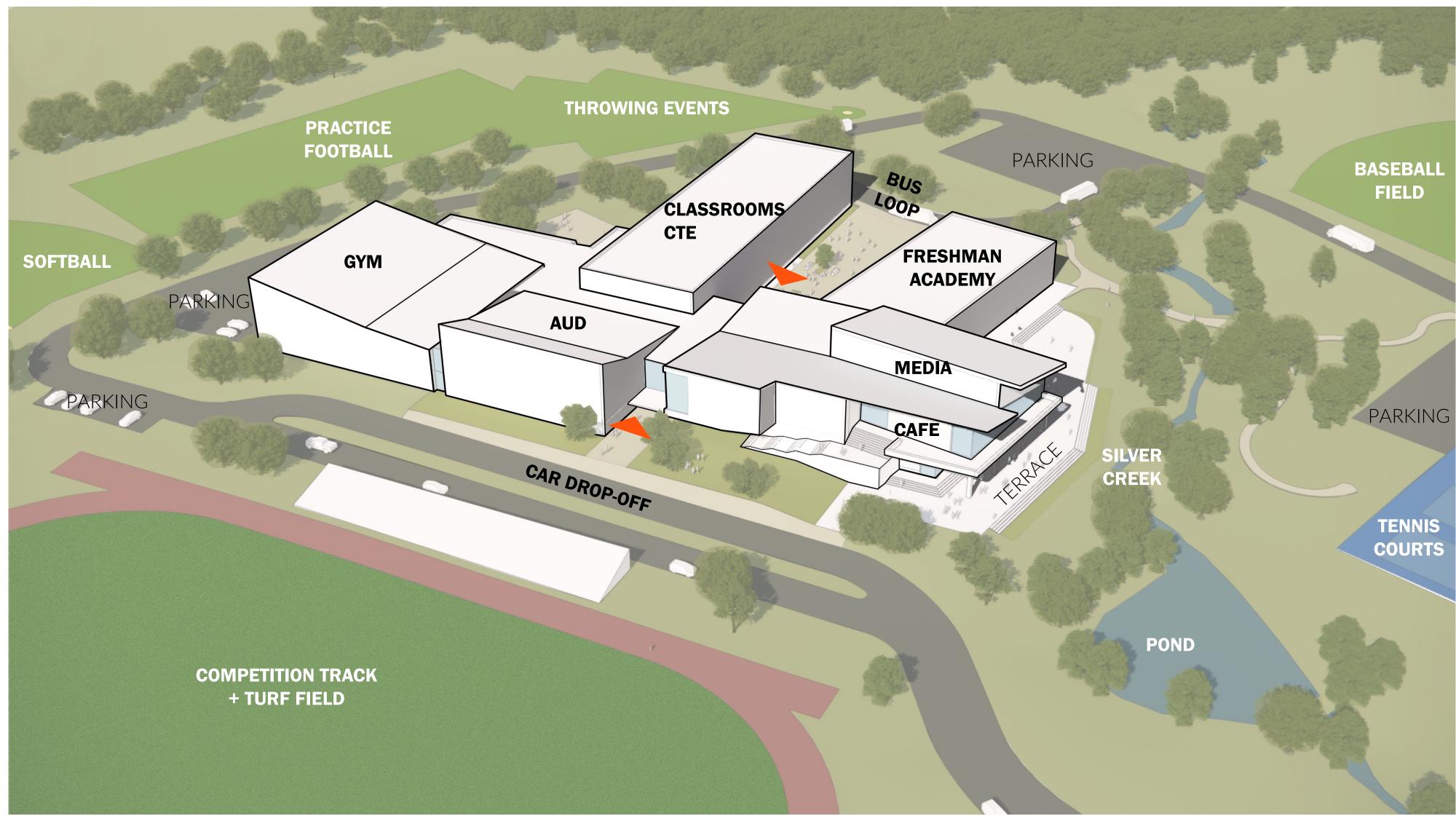






# Main Entry Aerial

#### VIEW FROM WEST | CAR DROP-OFF

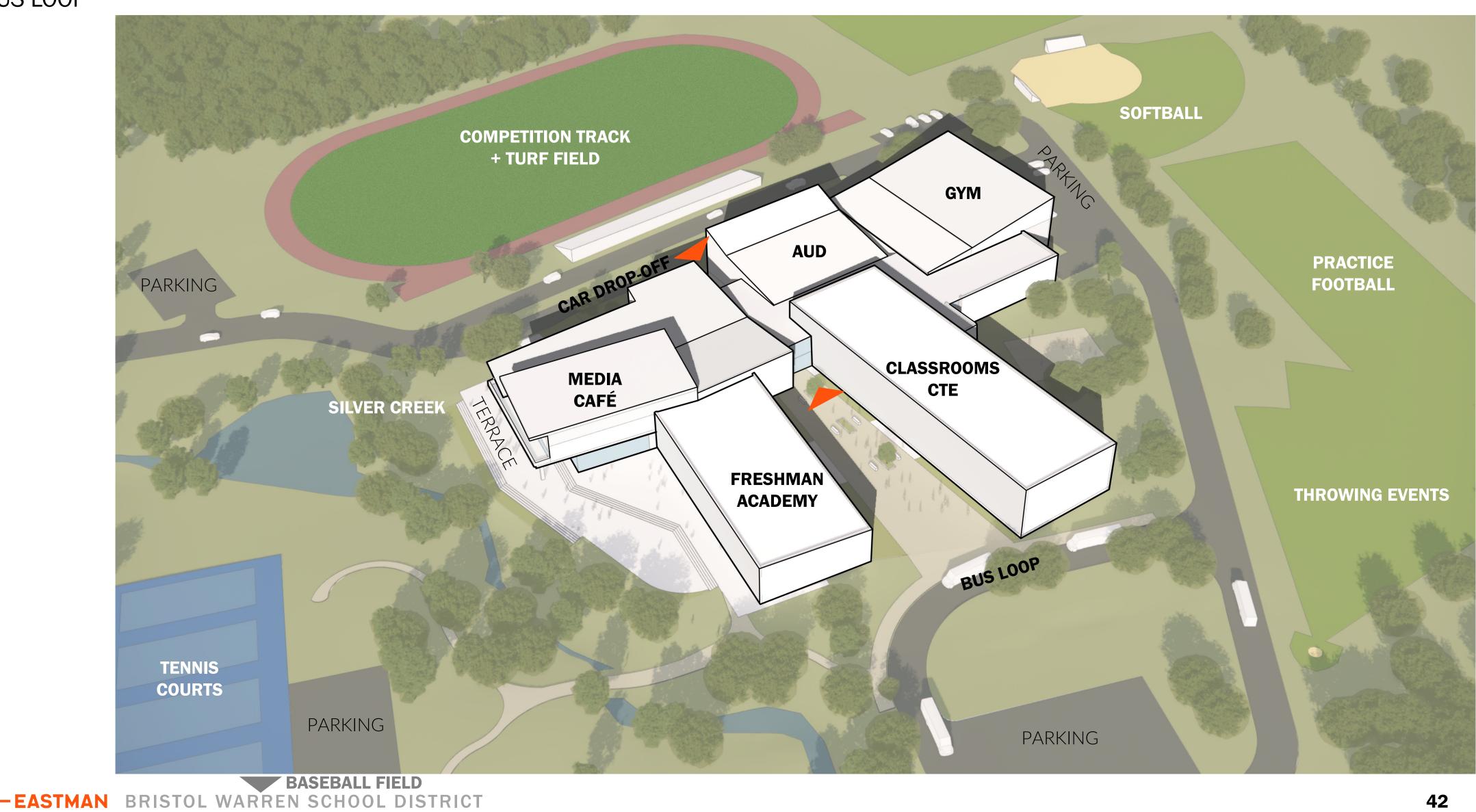


41

PERKINS-

# **Courtyard Aerial**

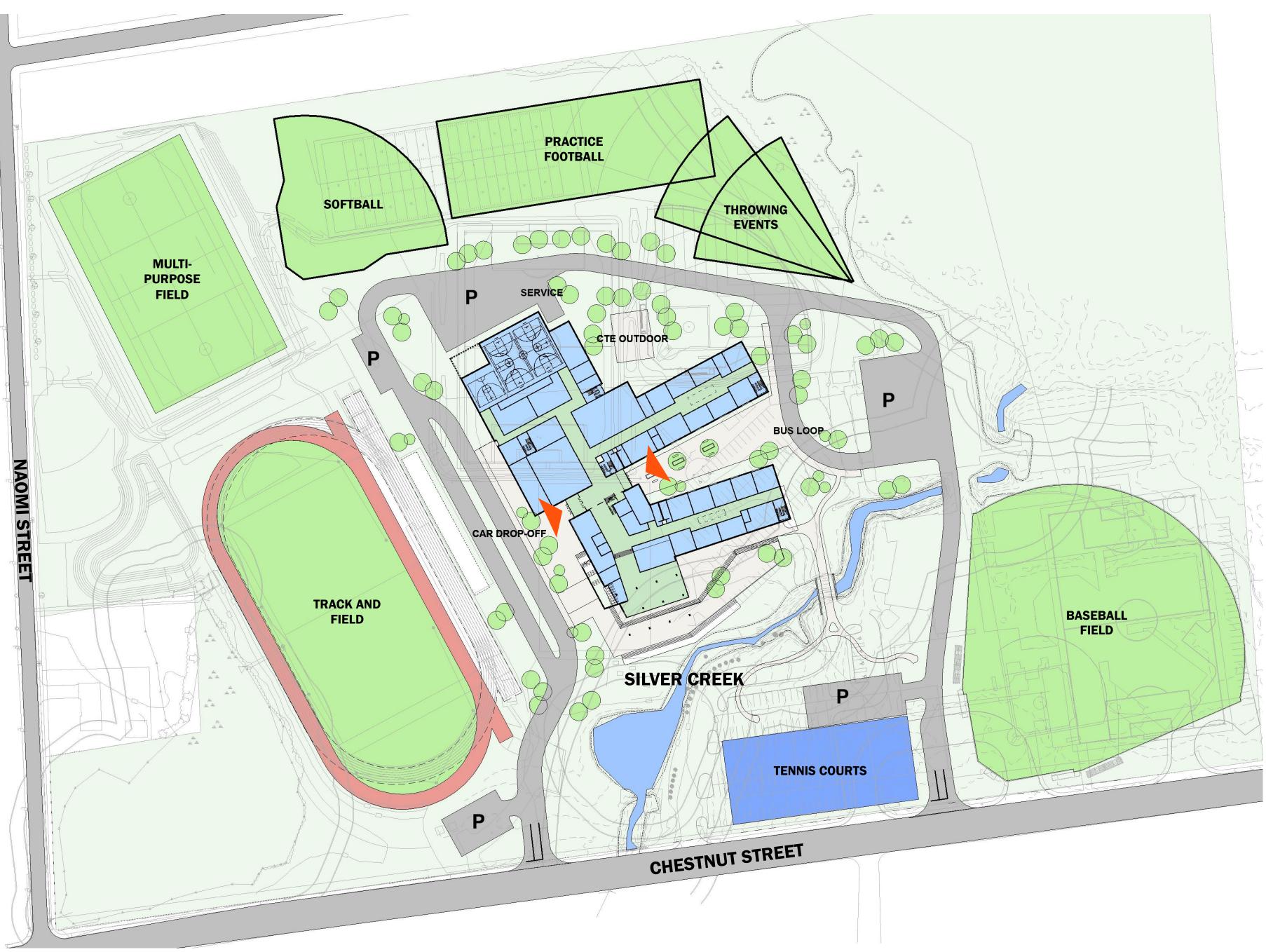
#### VIEW FROM EAST | BUS LOOP



PERKINS-

# Site & First Floor Plan

BLUEWAYS & GREENWAYS







# **First Floor Plan**



N T PERKINS-



## **Second Floor Plan**



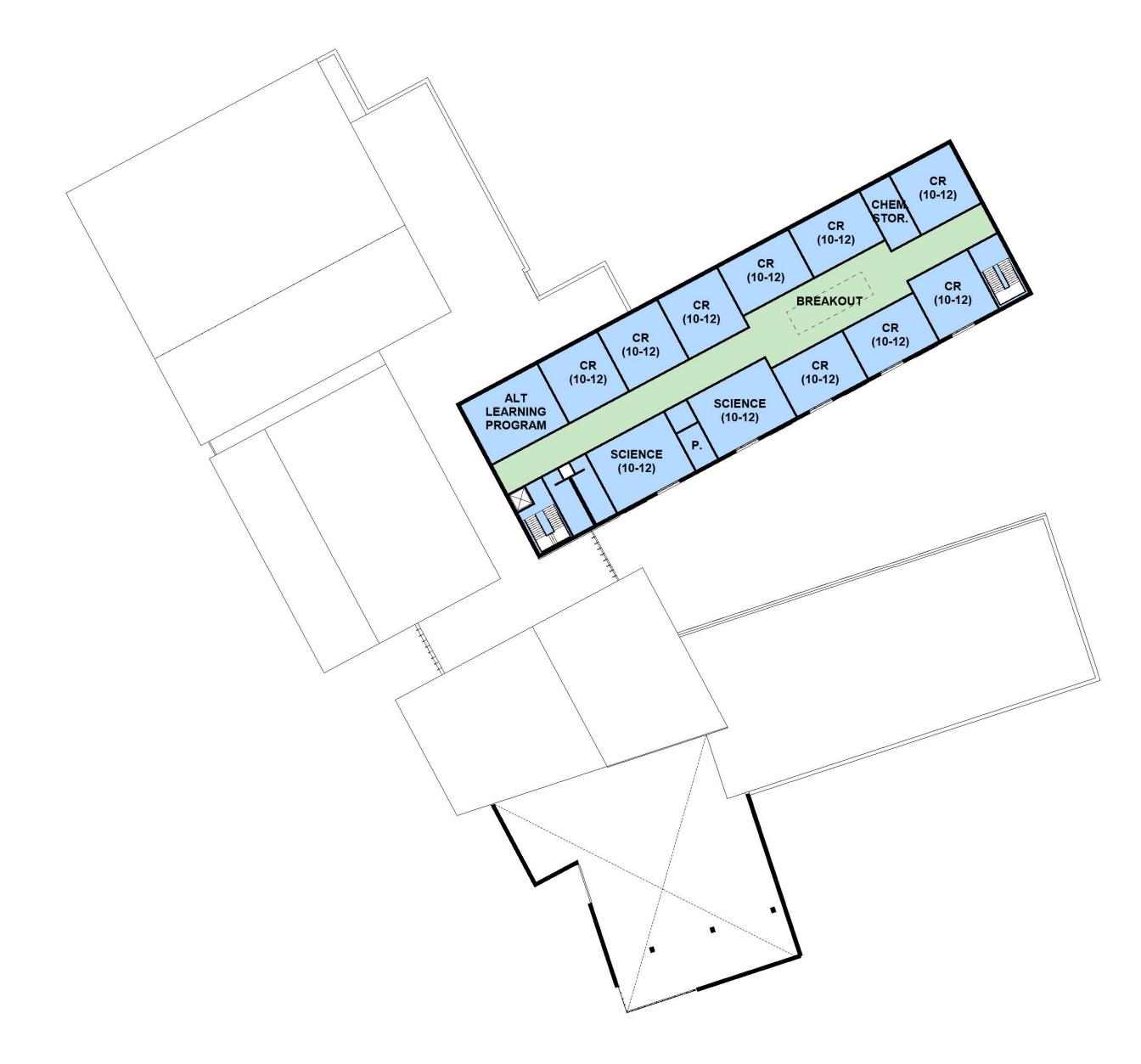


2-2





20-24 11



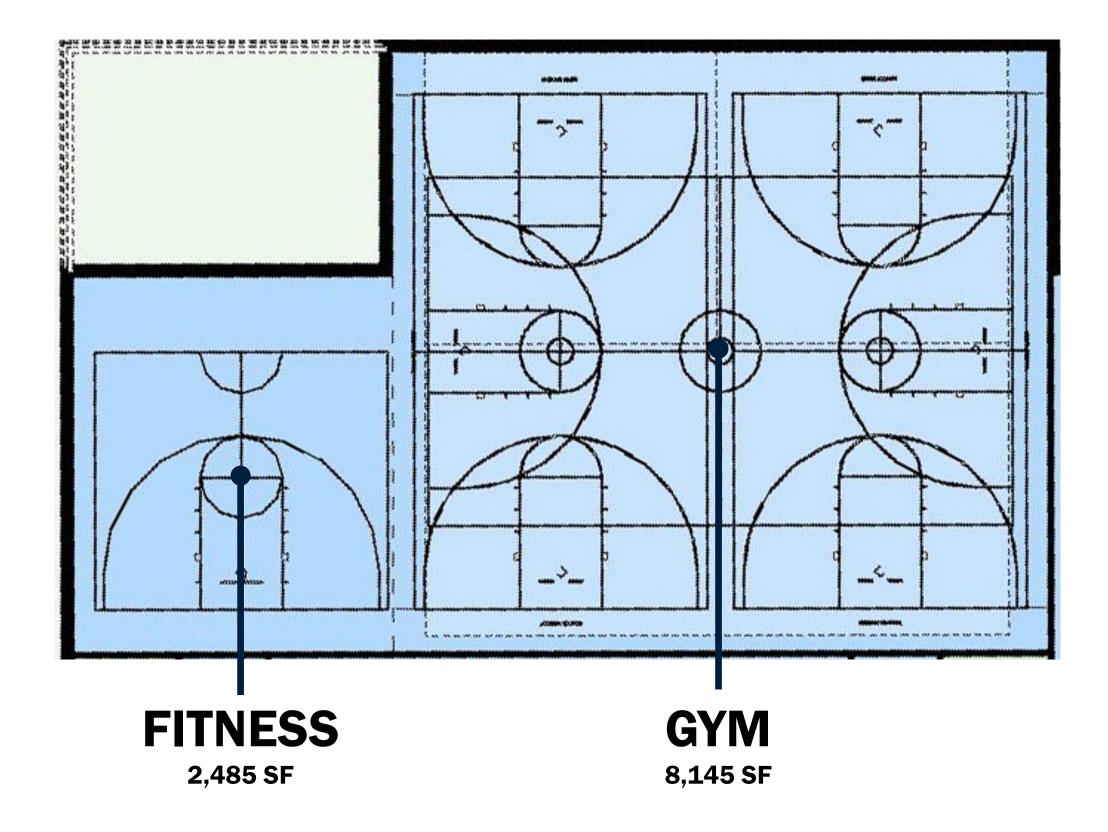






**GYM SIZED PER ENROLLMENT** 

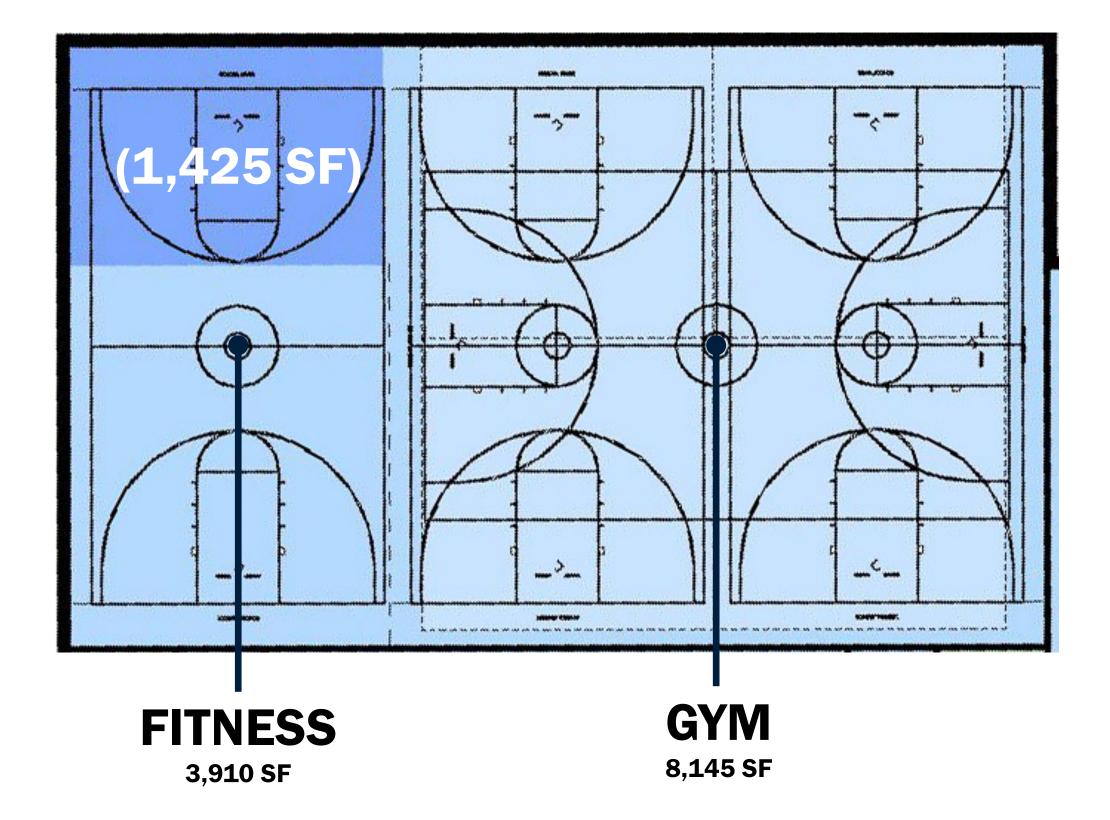
### **10,630 SF**



**PERKINS EASTMAN** BRISTOL WARREN SCHOOL DISTRICT

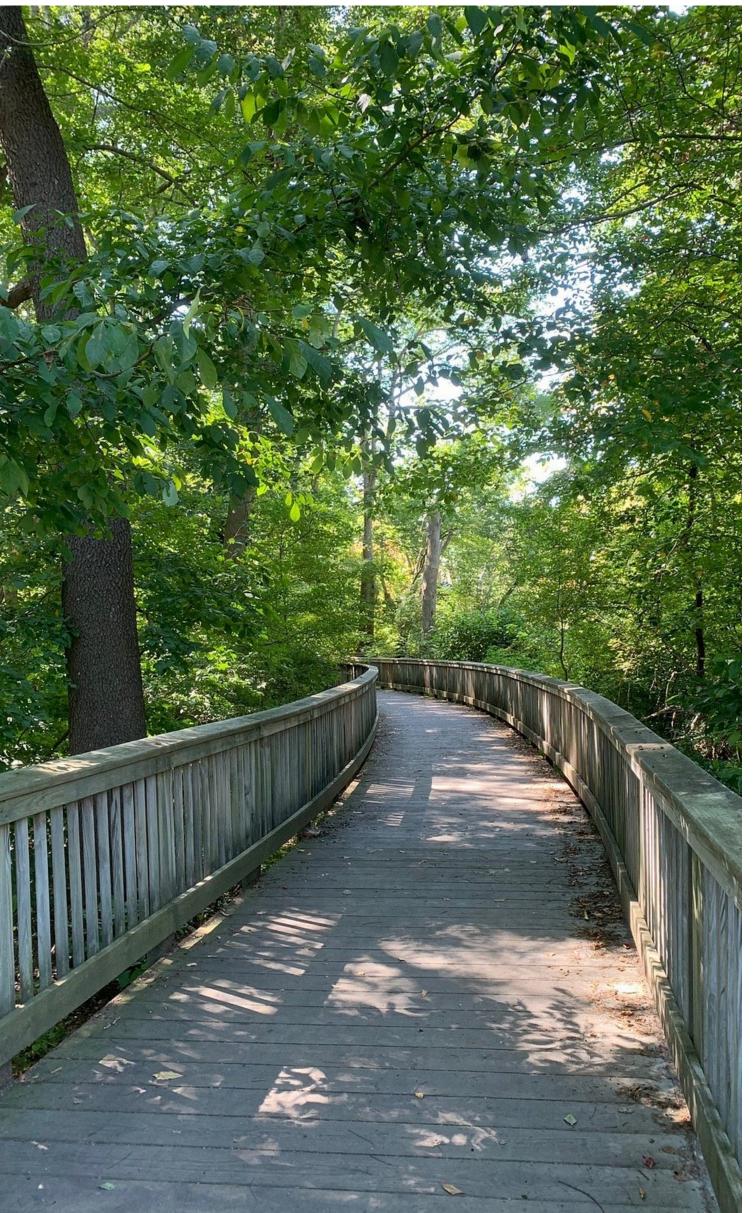
#### LARGER GYM

### **12,055 SF**

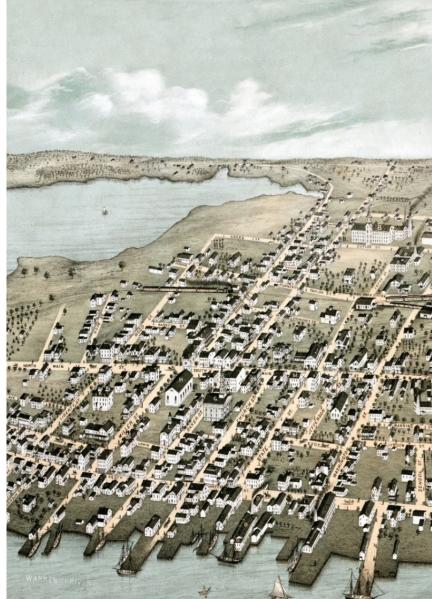


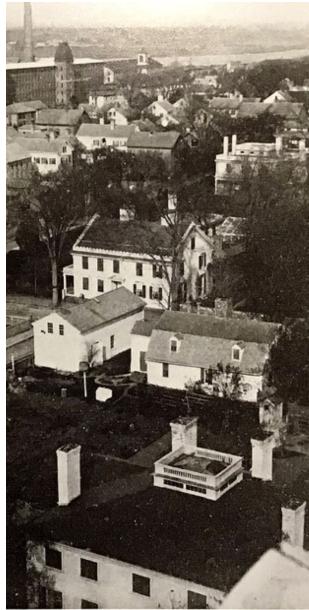


# Inspiration











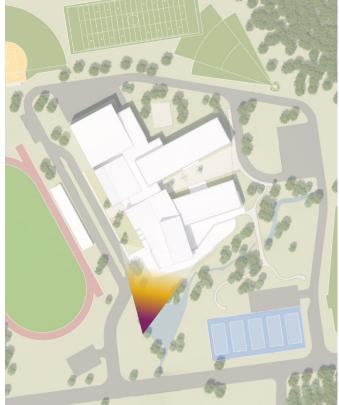




# Student Commons | Café & Media

SILVER CREEK FACADE





-EASTMAN BRISTOL WARREN SCHOOL DISTRICT

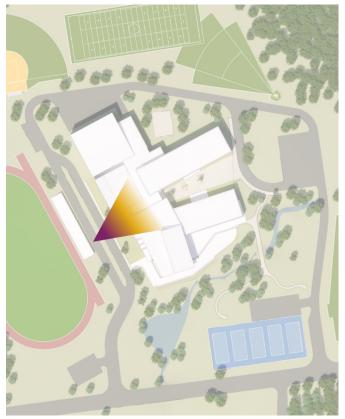
PERKINS-



# Main Entry

WEST FAÇADE CAR DROP-OFF

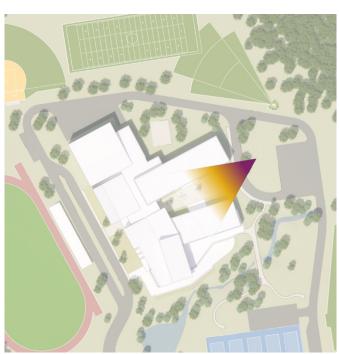




PERKINS —

# **Courtyard Entry**

EAST FAÇADE BUS LOOP





PERKINS —

# NEXT STEPS





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

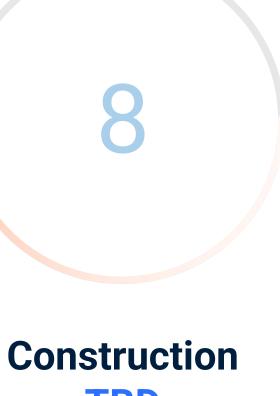
### e II Submission Deadline Elections Approval of Referendum Question(s) **Inding Authorization Vote** Je II Approval Target tion Manager Award

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









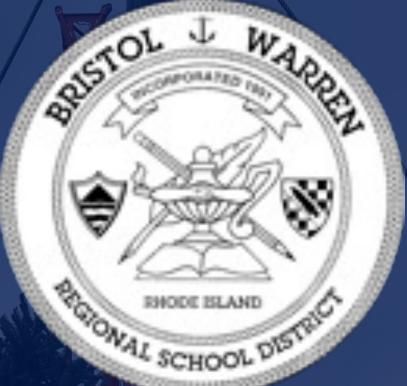






## QUESTIONS? THANK YOU!

# 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**-

