

# Guiding Principles

Guiding Principles set design priorities and offer an invaluable framework for making decisions and choices as the design process unfolds...



Educational Visioning Group Workshop Two Notes 1.28.20

### Guiding Principles 1.0

The following set of DRAFT "Guiding Design Principles 1.0" for design of the renovated and/or new Dale Street School facility was developed by the Educational Working Group (EWG) during the Educational Visioning Workshop that took place on January 28, 2020. The EWG is a group of approximately 30 participants that includes

Medfield Public Schools leadership, administrators, teachers, parents and community partners. Five teams of 5-6 participants each worked to create their own set of priority Guiding Principles, after which

to create their own set of priority Guiding Principles, after which each team presented to the larger group. Participants were then given the opportunity to prioritize their top six Guiding. These have been grouped thematically and listed below in order of the number of votes they received, with each team presented to the larger group. Participants were then given the opportunity to prioritize their top six Guiding each Guiding Principle given five votes for adoearing on one of the original team lists, and each subsequent priority with Principles. These have been grouped thematically and listed below in order of the number of votes they received, with a siven one point.

Principles, These have been grouped thematically and listed below in order of the number of votes they received, with a siven one point. Guiding Design Principles offer a framework of educational priorities that prove invaluable in helping stakeholders and focus their work. This first iteration of Guiding Principles may continue to Guiding Design Principles offer a framework of educational priorities that prove invaluable in helping stakeholders and develop as the design goals and focus their work. This first iteration of Guiding Principles may continue to

### 1. Small Learning Communities

Small School Feel, Big School Pride Learning Neighborhoods

Visible Learning and Connections Collaboration and Cooperation

#### 2. School as Community Resource (50 votes) A Community Building

Space Available 7 Days a Week

 Meeting Town Needs O Heart of the Building

Connections to Unique Identity of Town 3. Flexible and

Adaptable Spaces (47 votes)

Agile Classrooms and Flexible Furniture Extended Learning Spaces

- 4. Real World and

Brain Based Learning (45 votes) o Intellectual Engagement

Whole Child Teaching and Learning Ufelong Learning

### s. Connections to Nature (36 votes)

Outdoor Classrooms and Learning Indoor/Outdoor Views

Outdoor Play Spaces Gardens

#### 6. Sustainability (23 votes)

Sustainable Materials and Practices Efficiency and Durability

D Building as Teacher



# Jacobs Elementary School

#### JACOBS ELEMENTARY



- Real World and Brain-Based Learning
- 2. Learning Communities
- 3. School as Community Resource
- 4. Flexible and Adaptable Spaces
- 5. Outdoor/Nature Connections
- 6. Sustainability/Building as Teacher



#### Jacobs Elementary School





#### Jacobs Elementary School





#### Jacobs Elementary School





### Jacobs Elementary School Community







## Jacobs Elementary School Community





# Jacobs Elementary School Flexibility



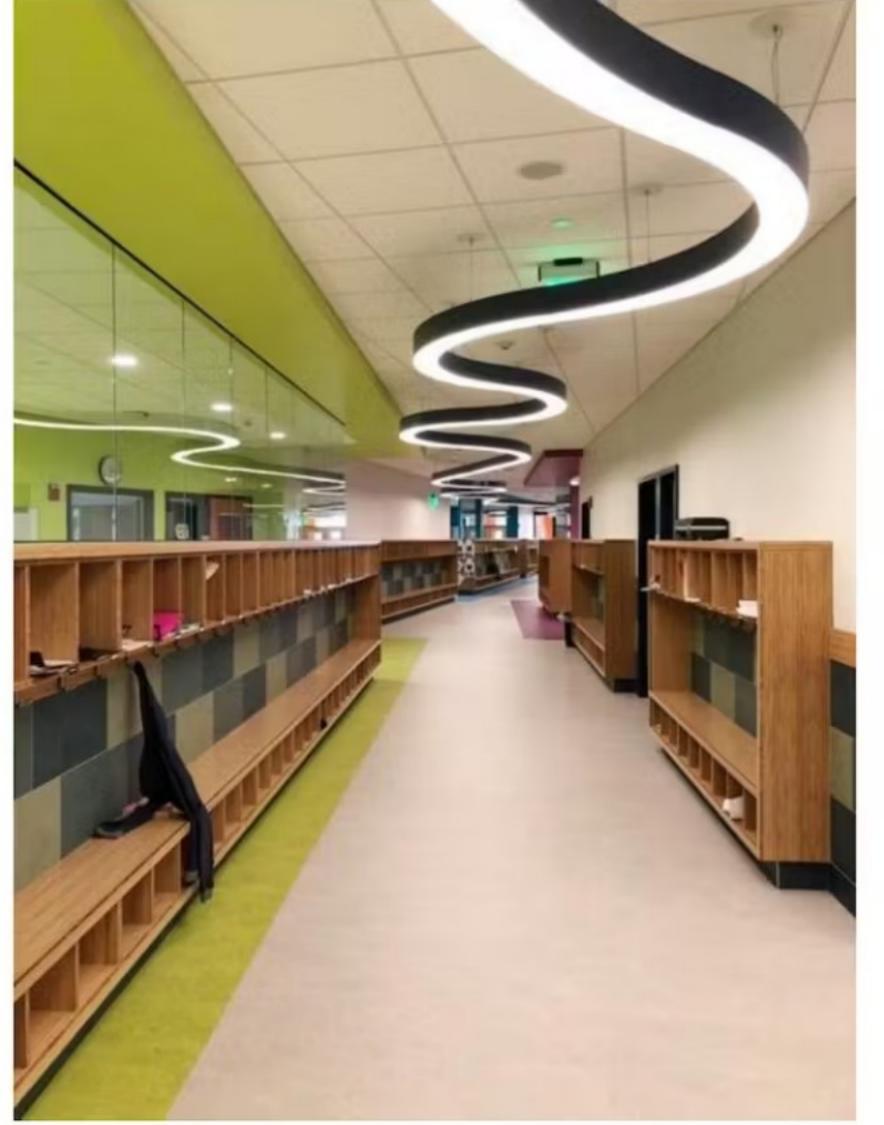


## Jacobs Elementary School Flexibility



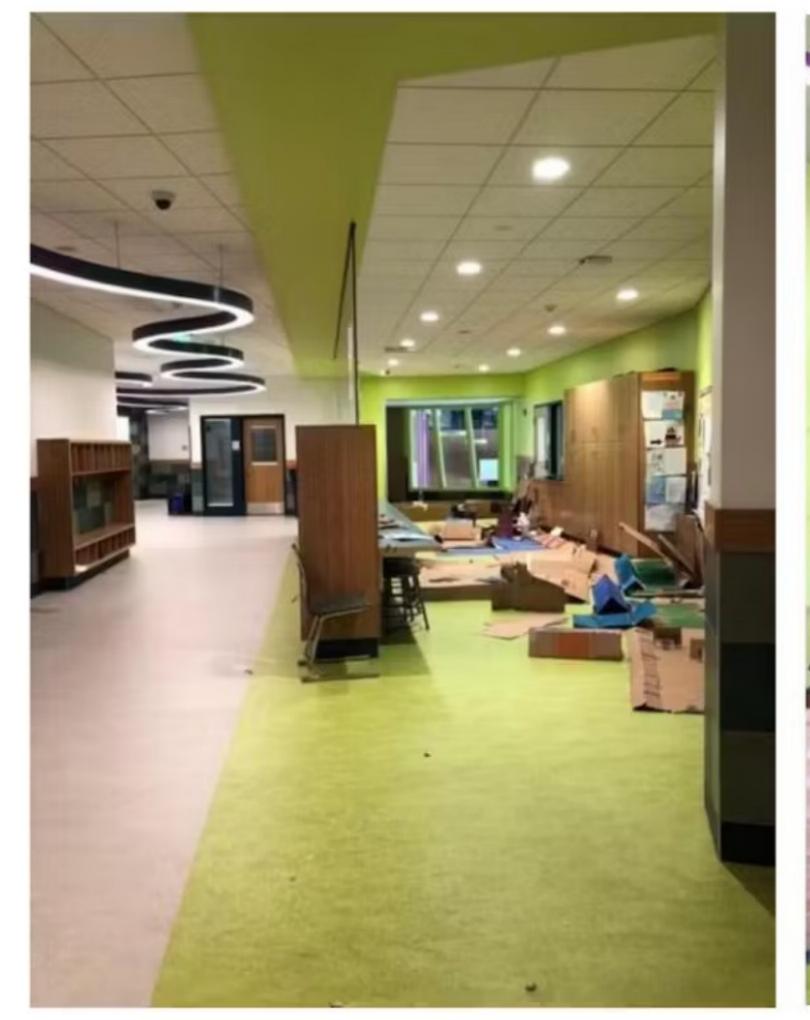








### Jacobs Elementary School Flexibility







## Jacobs Elementary School Wayfinding





### Jacobs Elementary School Sustainable Materials





- Bamboo rapidly renewable material
- Linoleum flooring all natural bio-degradable product

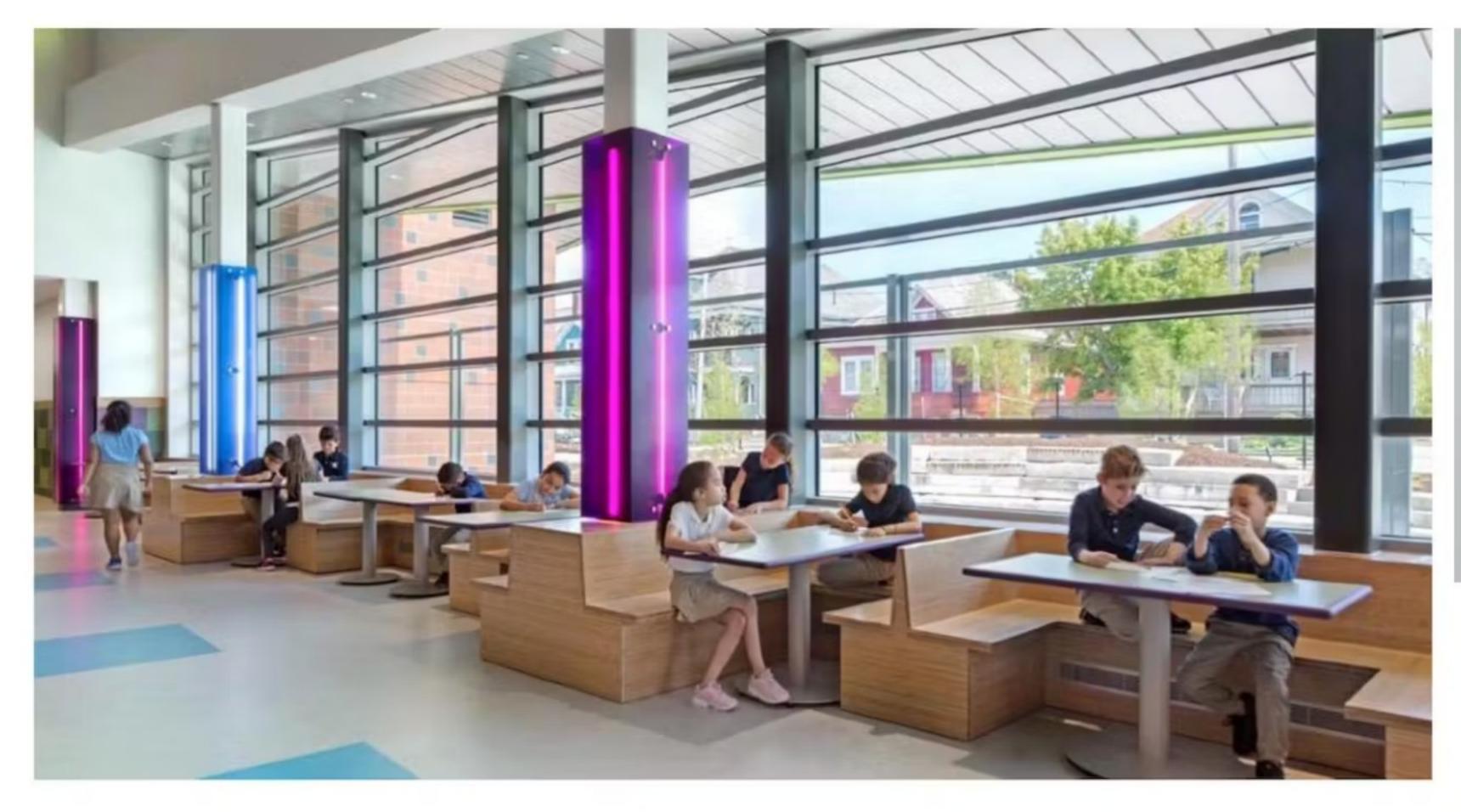








### Jacobs Elementary School Scale



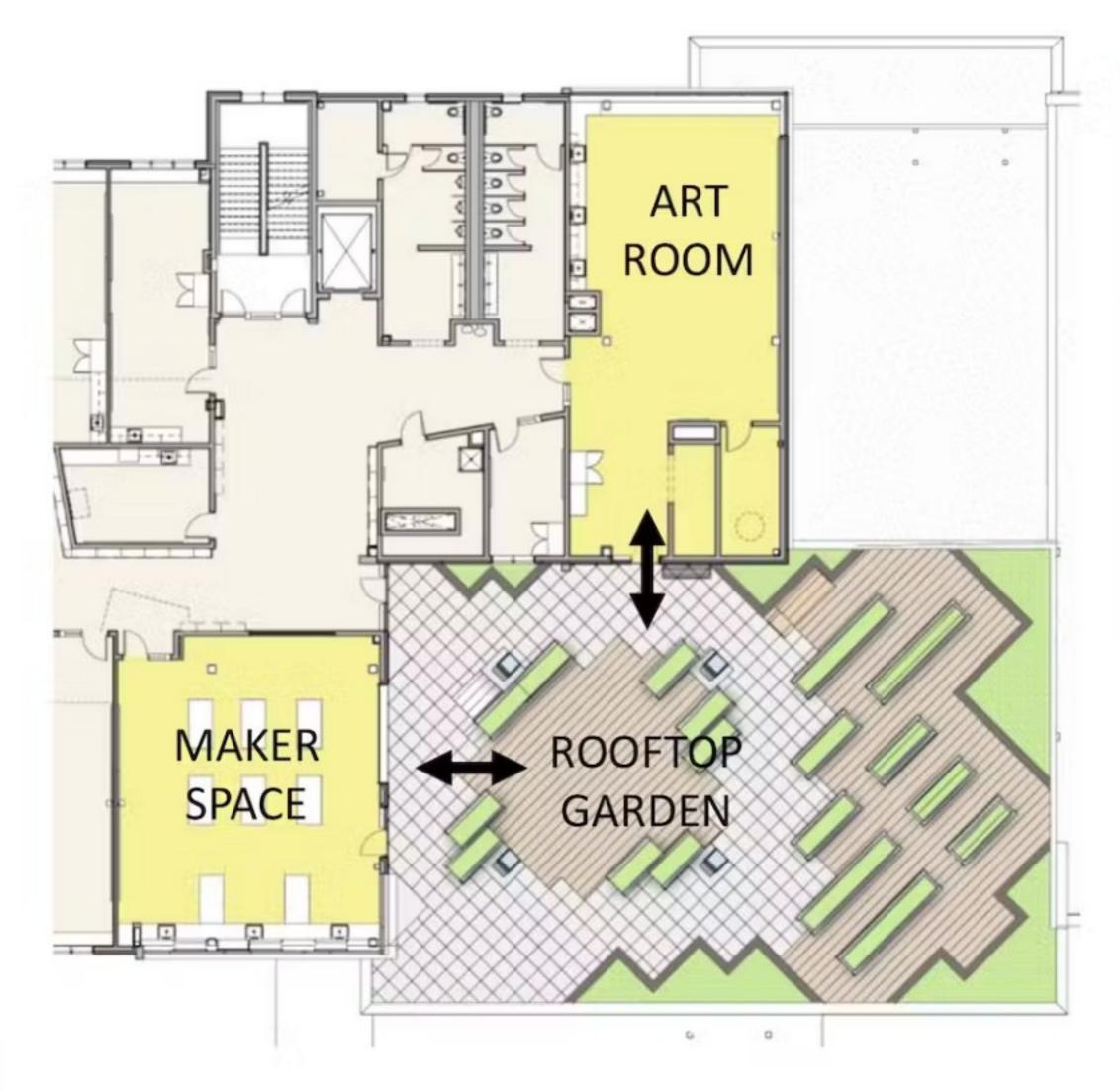


### Jacobs Elementary School Hands On Minds On





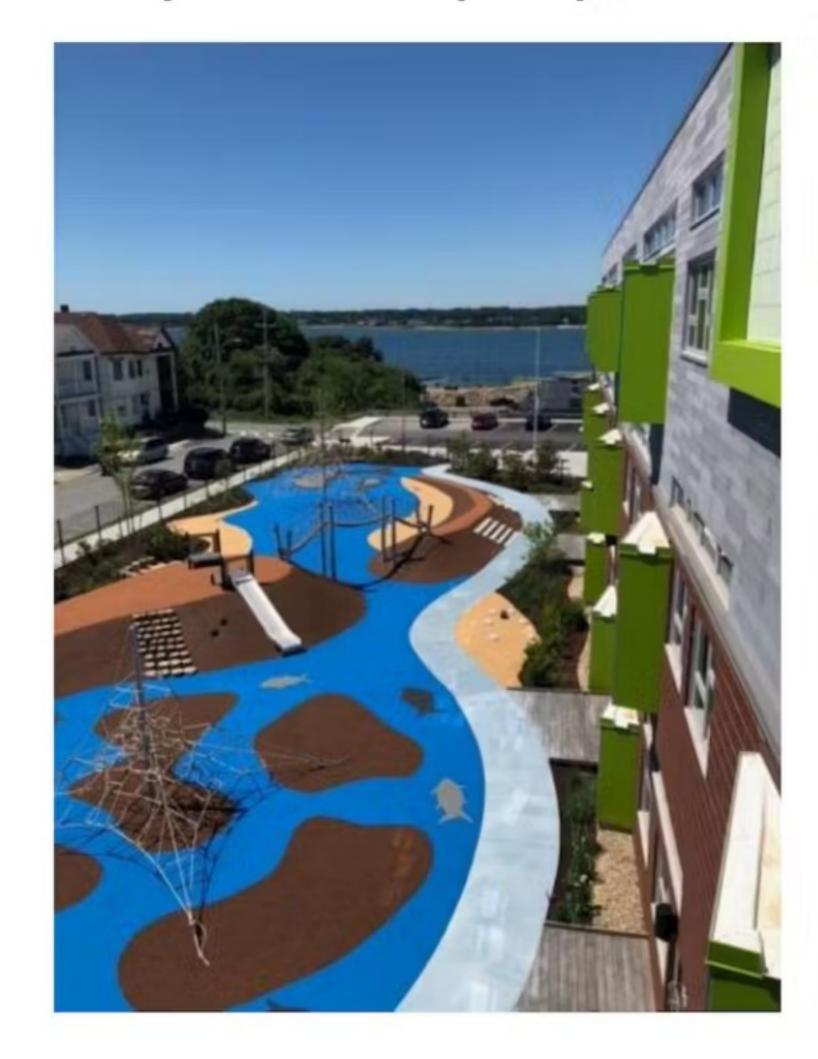
### Jacobs Elementary School Hands On Minds On

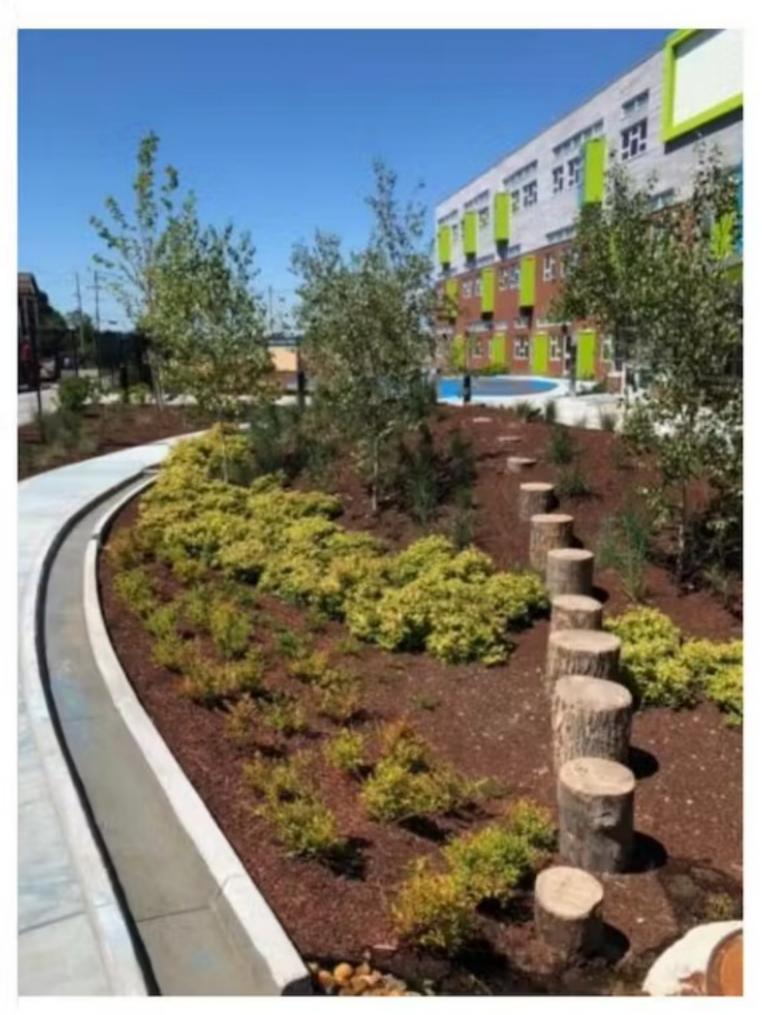


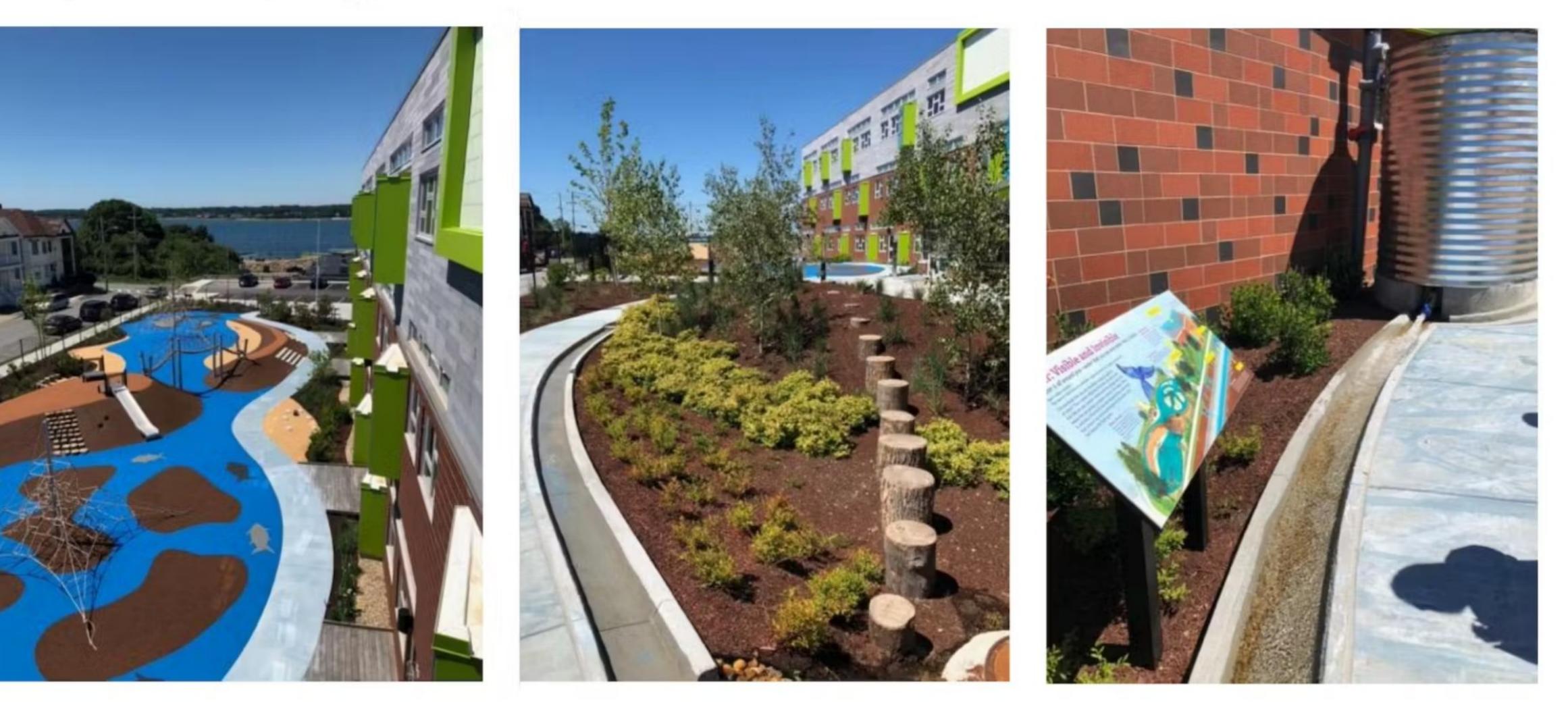




#### Jacobs Elementary School Play and Inquiry









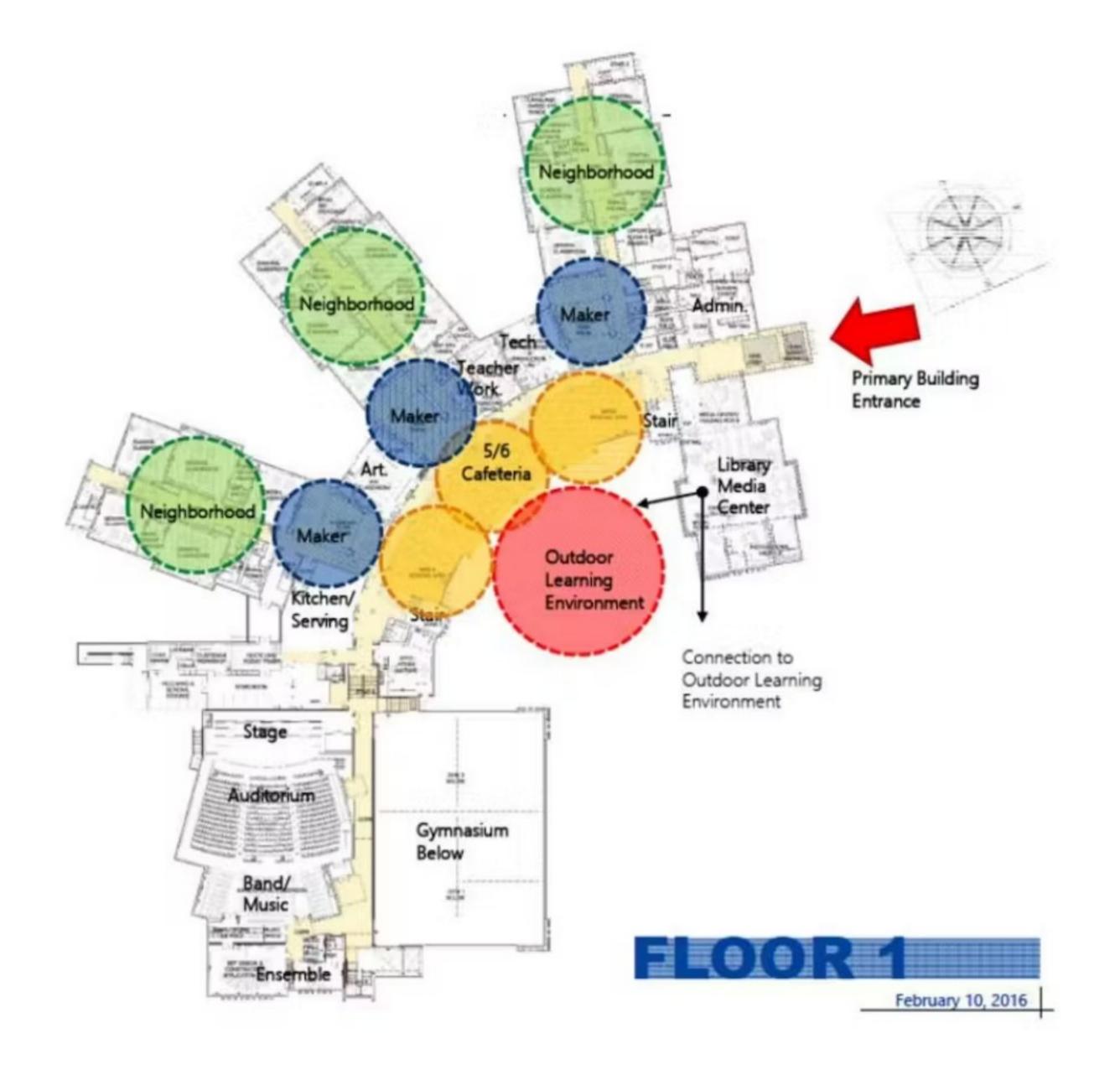
# Beverly Middle School

#### BEVERLY MIDDLE SCHOOL

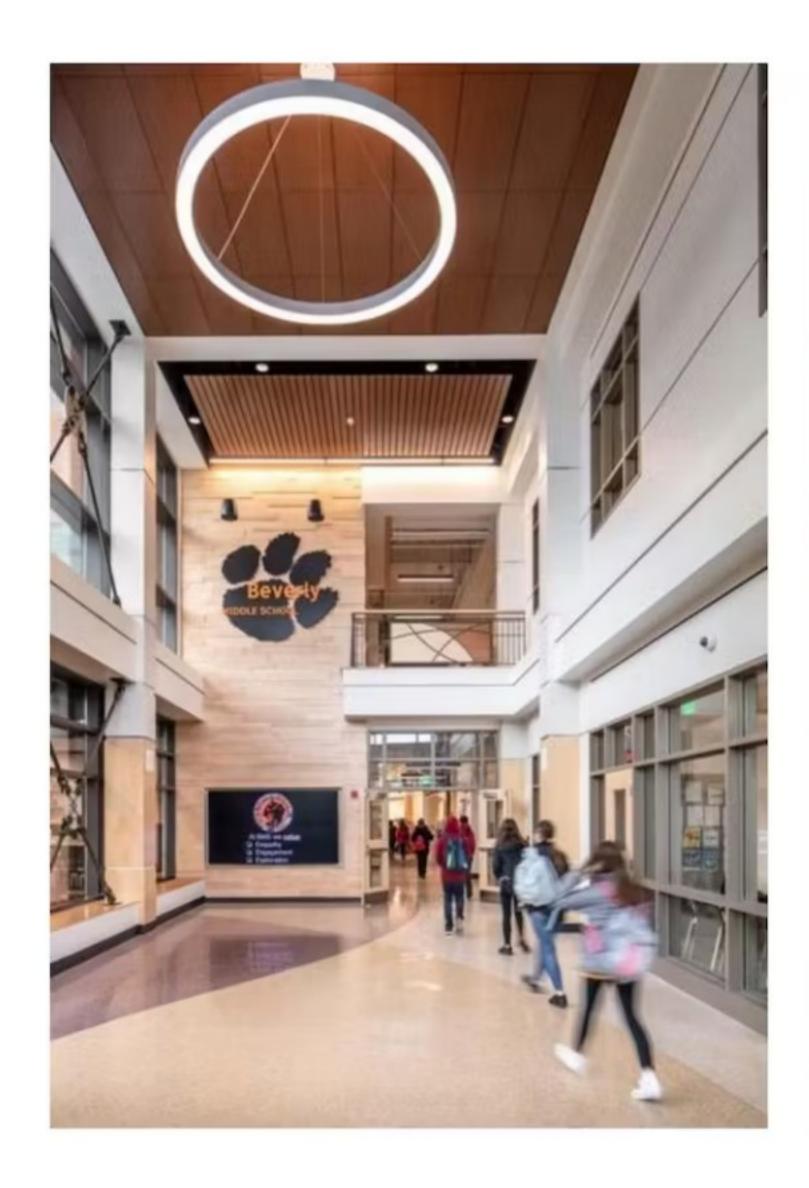


- 1. School Without Walls
- 2. Ever Evolving
- 3. Belonging and Ownership
- Small School Feel,
   Large School Pride
- 5. Growth Mindset



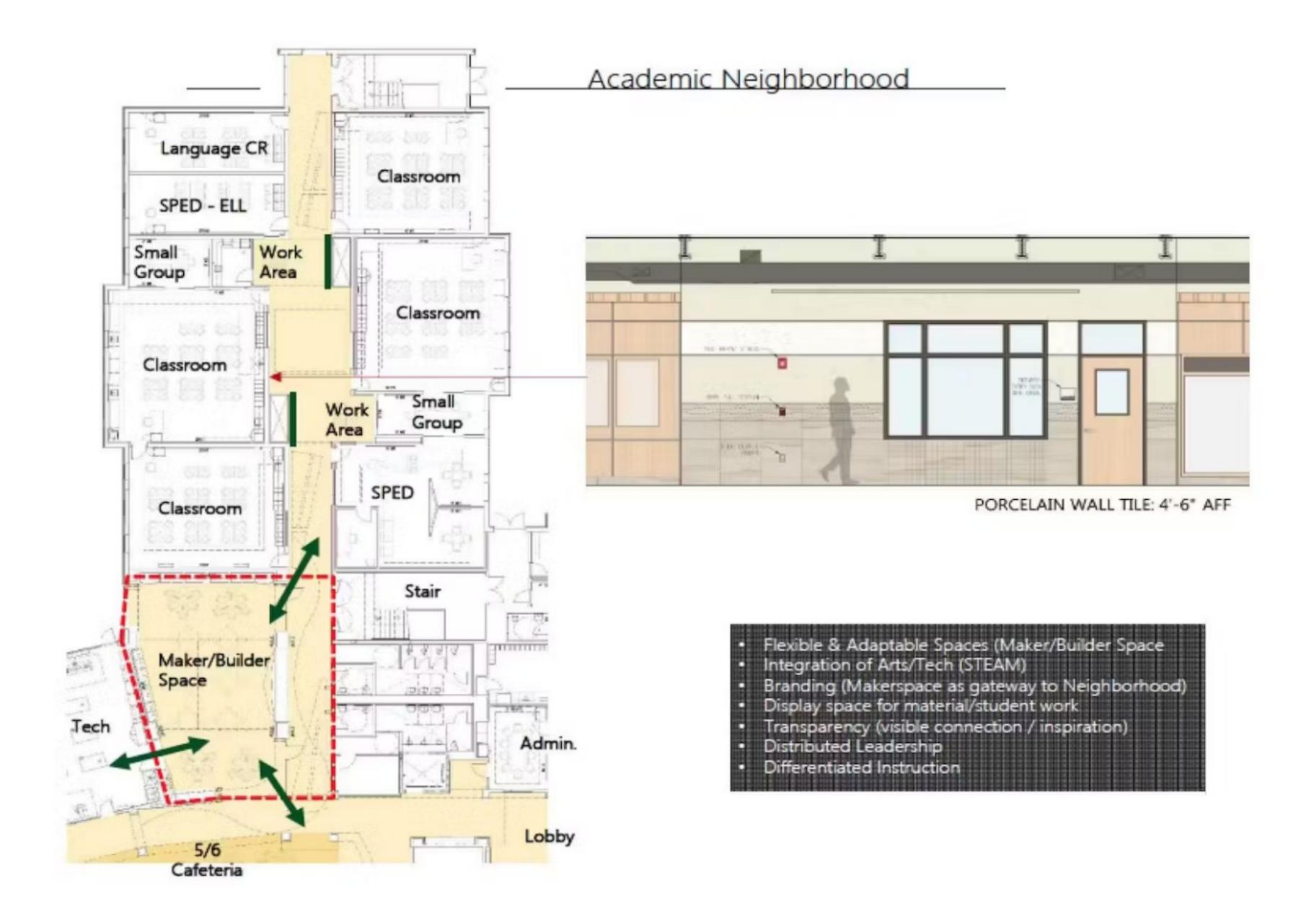






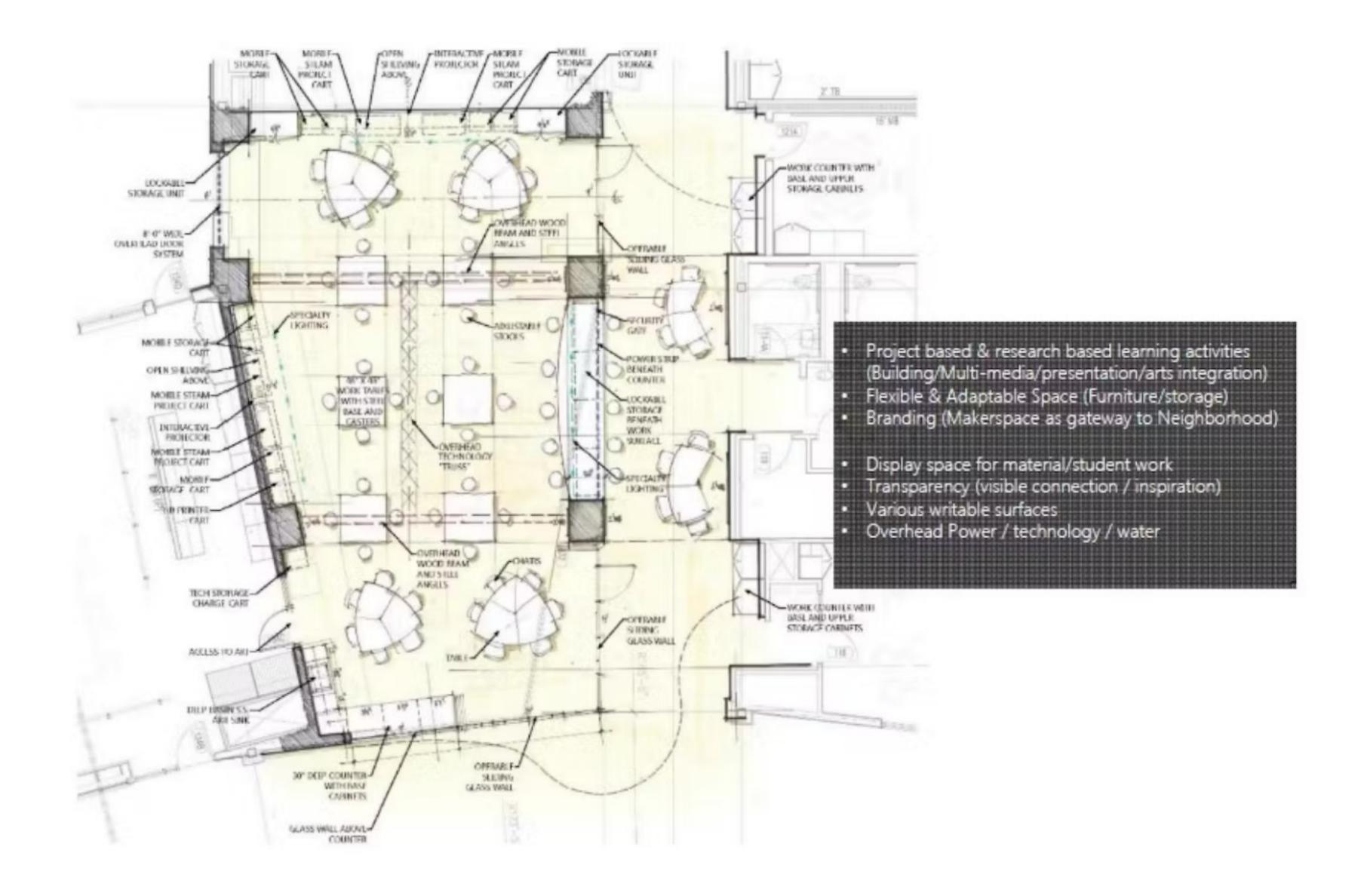








#### Maker / Builder Space

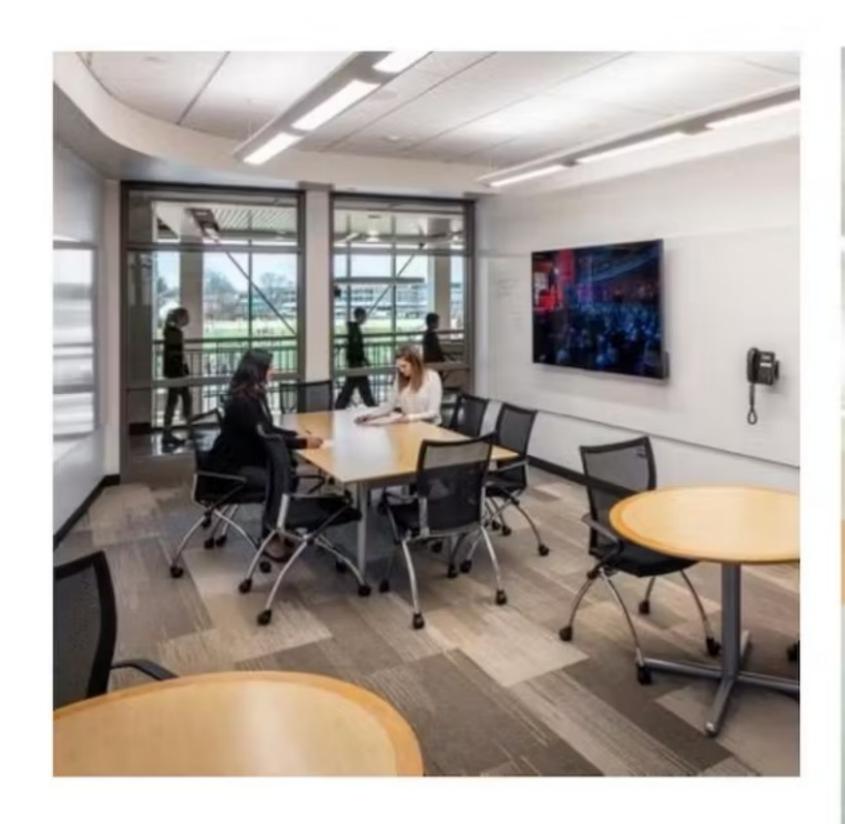








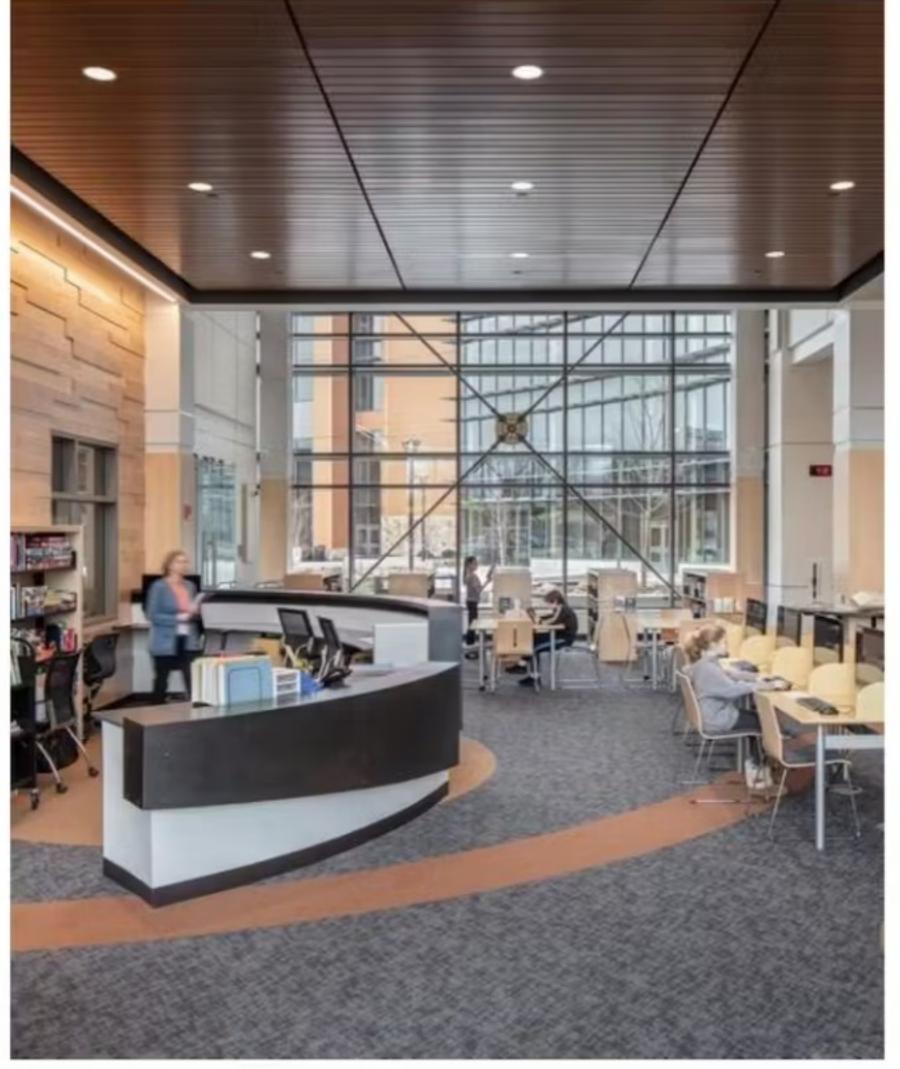




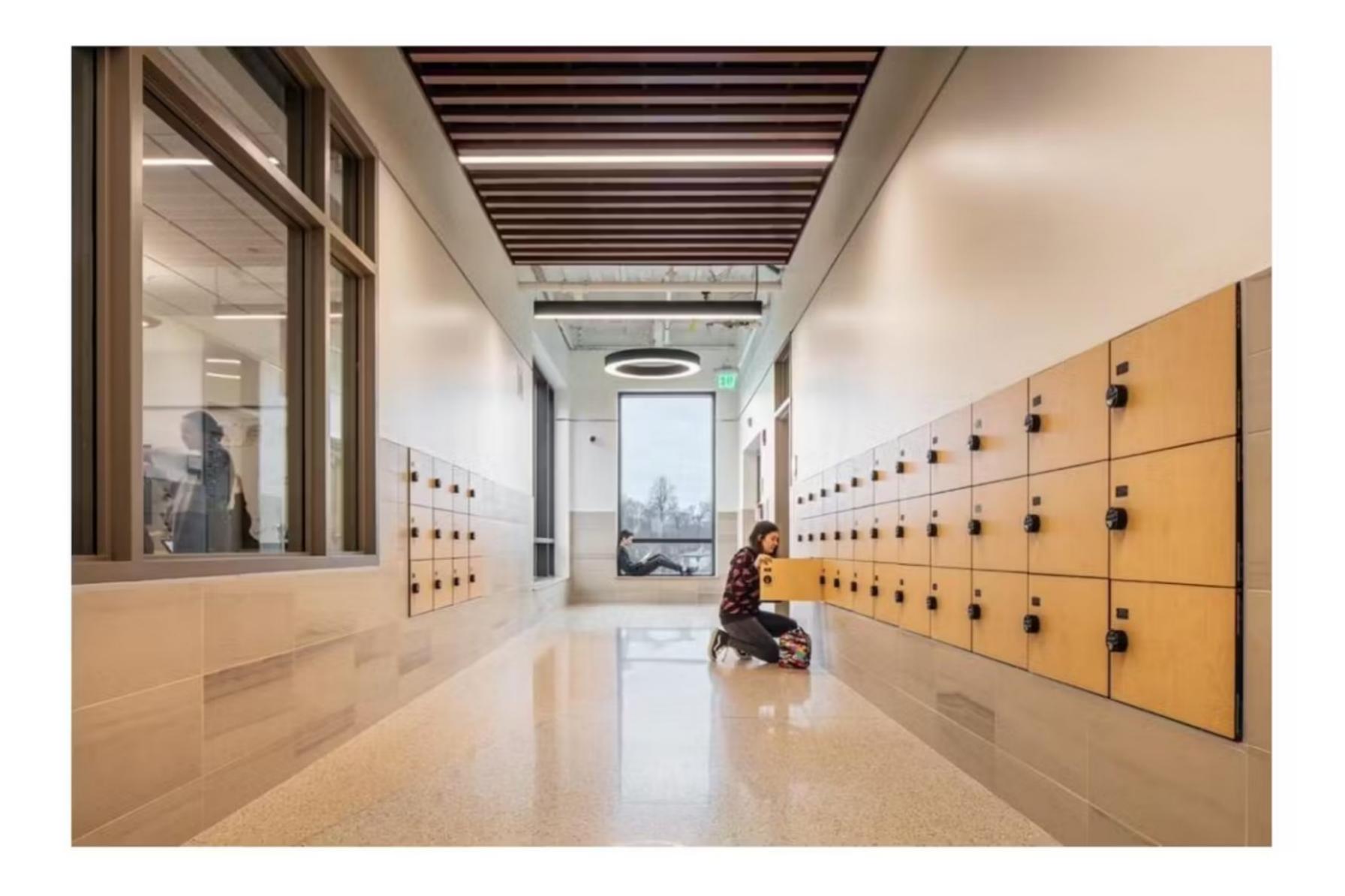










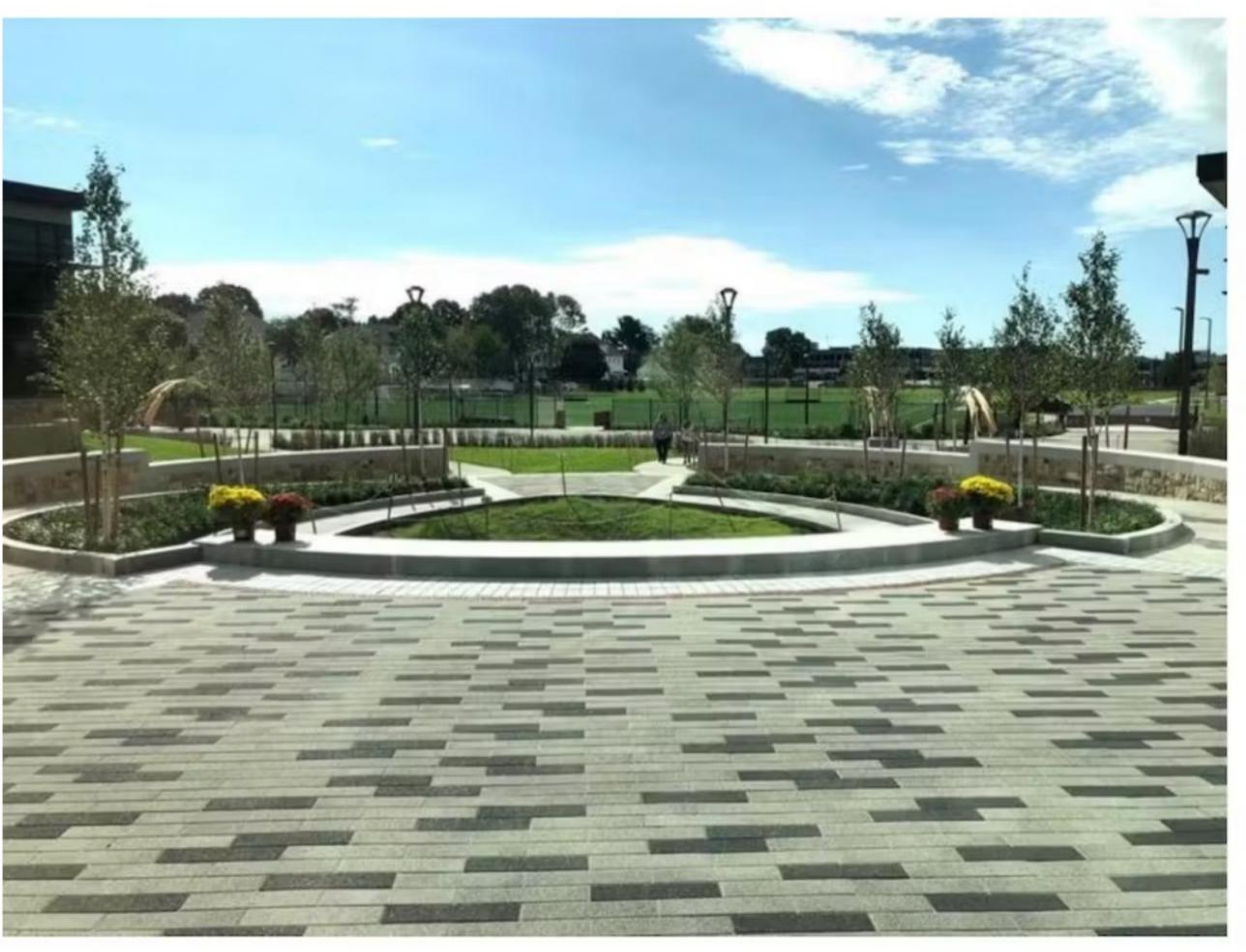




- Educational Advantages:
  - Outdoor dining area
  - Outdoor amphitheater
  - Exhibit and work areas
  - Open green space
  - Outdoor dassroom space
  - Outdoor science space
  - Outdoor project space extension of maker/builder space
  - Examples.....
    - Science: (Raised planting beds, testing cars in physics projects, heat transfer, weather analysis, water features, engineering elements: pulleys, planes, etc.)
    - Humanities: (Socratic Debate, drama, poetry, Greek myths)
    - Arts: (3D installations, sculpture, etc.)
- Maintain a secure outdoor environment
- Defined pathway from drop off area to building entry
- Outdoor holding space for early arrivals and late departures
- Varying elevations of "Educational Zones": more clearly defined areas
- Direct access from Cafeteria
- Maintain privacy from classroom neighborhoods
- Easy access from centralized circulation stairs for all grade levels
- Easy access for maintenance equipment / staff
- Greater potential for separate structured community use





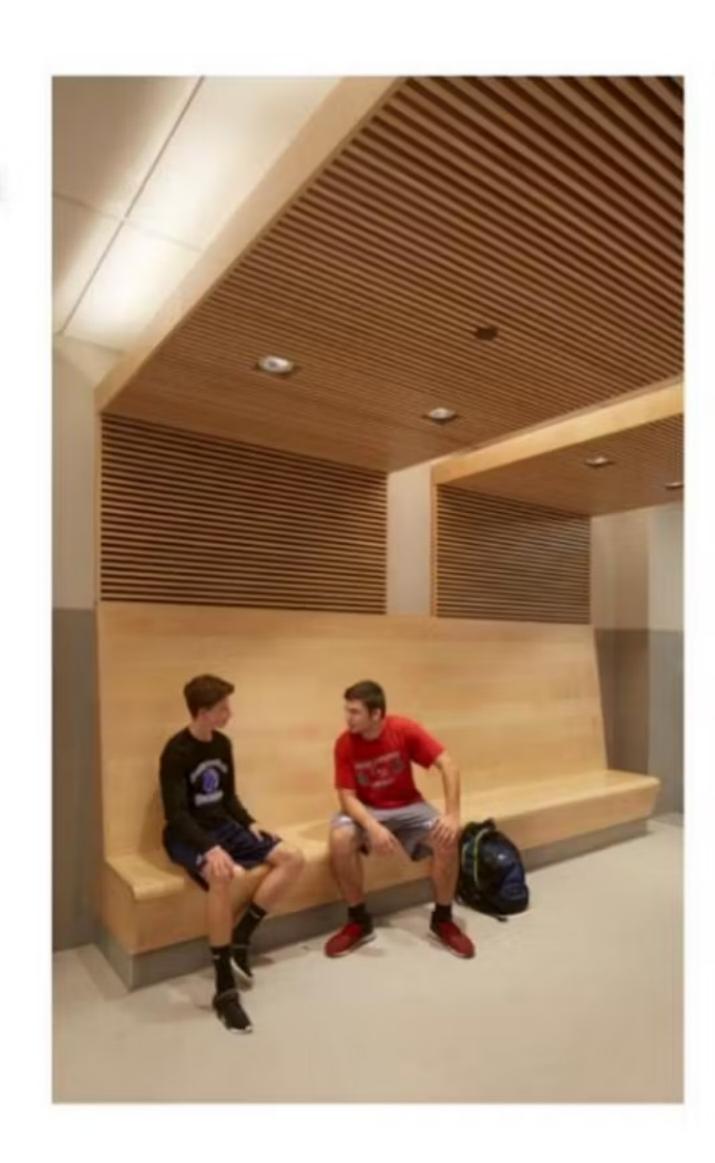






# North Middlesex Regional High School

#### NORTH MIDDLESEX REGIONAL HIGH SCHOOL



Slide 23

- 1. Flexibility and Evolution
  - a) Two Story Flexible Pods
  - b) Humanities/STEAM
- 2. STEM/Art Integration (STEAM)
- 3. Integration and Synergy
  - a) Science Dispersed Across 4 Pods
  - b) Interdisciplinary Floor Plan
- 4. Outdoor Learning Environments
- 5. Joy of Learning

**SMMA** 





#### FIRST FLOOR

- 1.Administration
- 2.Student Dining Commons with Stair & Stage
- 3.Small Commons w/ Operable glazed wall (LGI)
- 4. Gym Dance Fitness
- 5. Humanities, Arts & Science Classroom Pod
- 6.STEAM Pod
- 7.Project Based Learning & Maker Spaces
- 8.Covered Outdoor Classrooms
- 9. Outdoor Dining and Community Service Gardens
- 10. Teacher Planning
- 11.TV Studio and Lab
- 12.600 Seat Auditorium, Fine Arts & Music Suites
- 13. School Store





#### SECOND FLOOR

- Student Dining Commons with Stair & Stage Below
- 2. Small Commons w/ Operable glazed wall— Large Group Below
- 3. Gymnasium, Dance & Fitness Below
- 4. Humanities, Arts, and Sciences
  Classroom Pod
- STEAM Pod
- Science Labs
- 7. Project Based Learning & Makers Spaces Below
- Teacher Planning
- 600 Seat Auditorium, Fine Arts
   Music Studios below
- Media Center





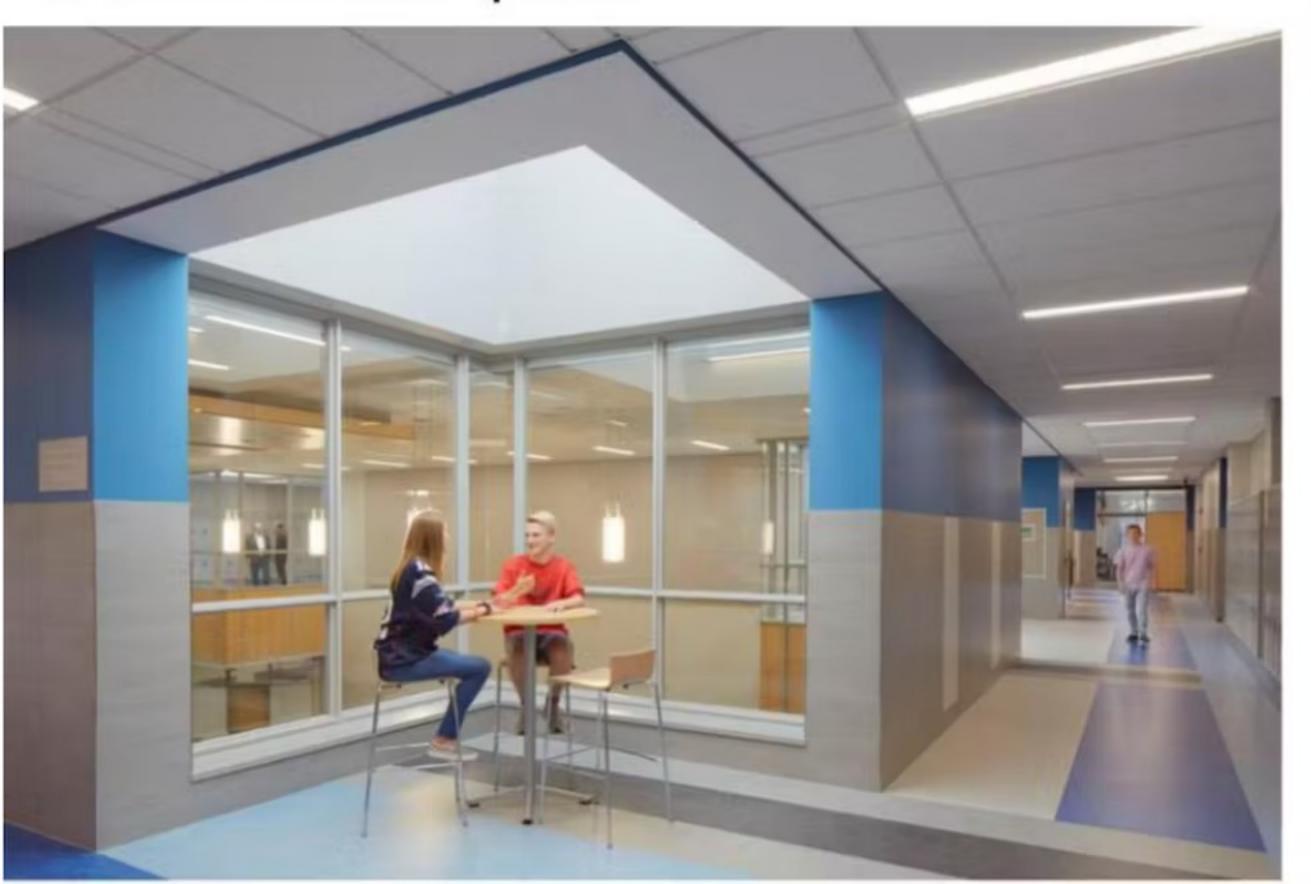


Outdoor Classrooms

Community Service Gardens



### Student Centric Spaces





Large Group Instruction (LGI)

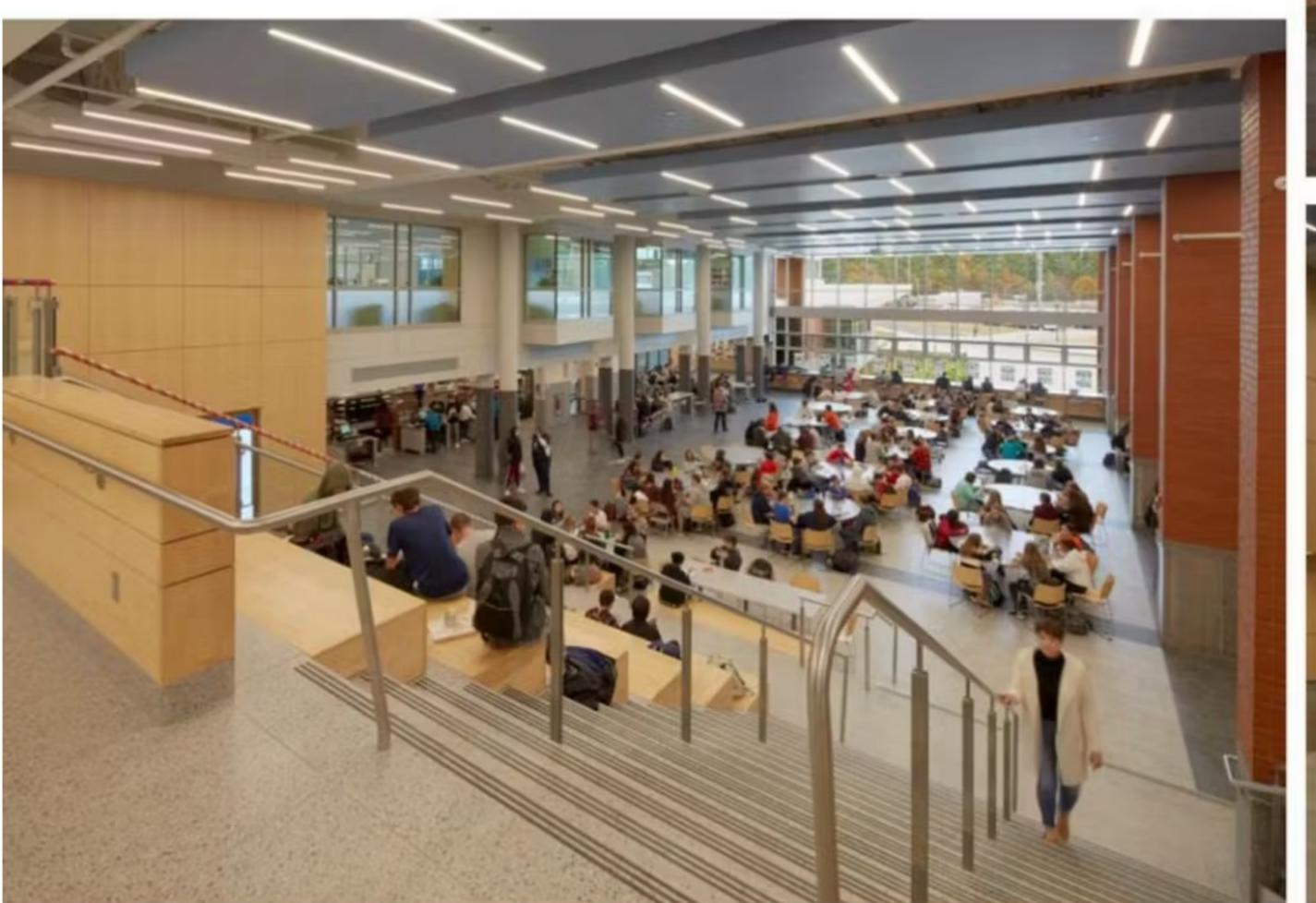






SMMA

Student Dining: Multiple dining options; Used throughout the day; integral to circulation; Hub of Public Spaces; Pre and Post Function space







**Library / Media Center** – classes, collaboration, research, reflection







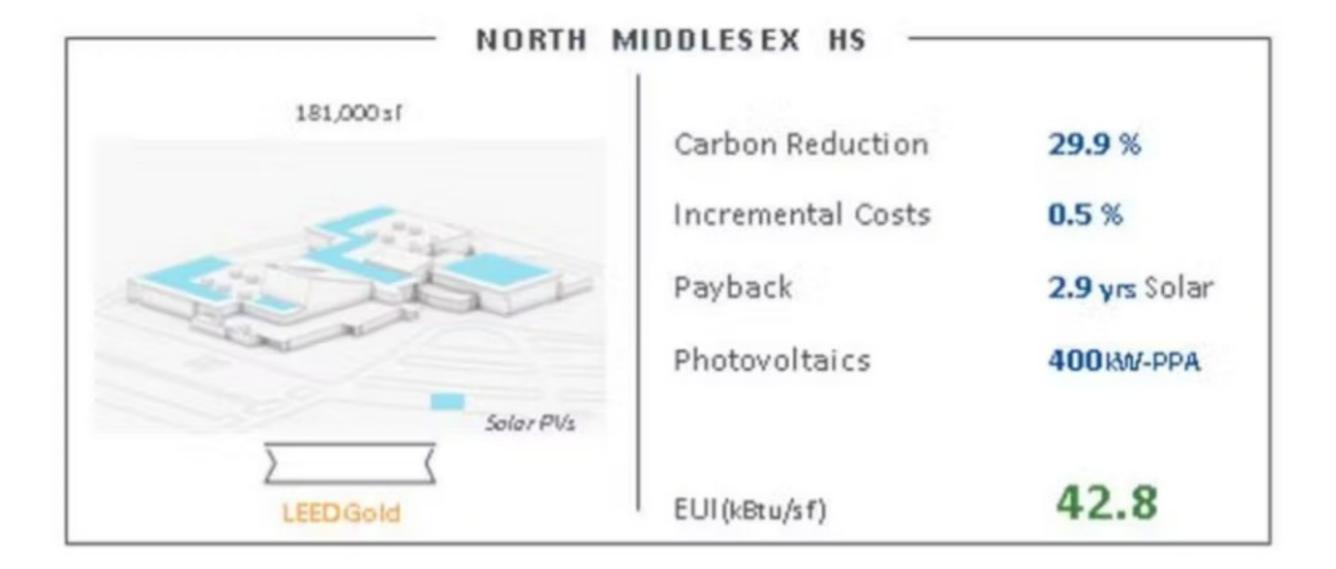
### Sustainability and Wellness

The project had three core sustainability goals in mind:

- » Achieve an advanced standard of energy efficiency
- » Provide students with a healthy 21st century educational facility in all aspects
- » Foster environmental literacy

#### LEED Certification

North Middlesex Regional High School was awarded LEEDv3 2009 Gold Certification (63 points), achieved in part through the designers' expertise in sustainable design, as well as through a collaborative approach with the towns' constituents.





#### **LEED Certification Review Report**

This report contains the results of the technical review of an application for LEED®-certification submitted for the specified project. LEED certification is an official recognition that a project complies with the requirements prescribed within the LEED rating systems as created and maintained by the U.S. Green during Council® (USGBC®). The LEED certification program is administered by Green Business Certification Inc. (GBCI®).

#### North Middlesex Regional High School

Project ID 1000042708

Rating system & version LEED FOR SCHOOLS

Project registration date 05/27/2014



#### Construction Final Review Decision

PERTIFIED ANAL GIVER CARE SOLD ANTS,

#### LEED 2009 SCHOOLS

ATTEMPTED: 72, DENIED: 1, PENDING: 8, AWARDED: 63 OF 110 POINTS

SUSTAINABLE SEES	12 OF 24
55p1. Construction Activity Pollution Provention	7
MgZ Environmental Sile Assessment	7
SSCI S-Ne Selection	0/1
\$5c2 Descriptment Danisty and Community Connectivity	0/4
SVC3 Brownhest Restructions of	1/1
SSoft LA terrutive Transpersition-Public Transportation Access	0/4
\$5c4 J'Alternative Transportation Broycle Storage and Charging Room	
SSc4.3A terrutive Transportation use Emitting and her Efficient Wire	iles 2/2
SSc4 4 Attemptive Transportation Harking Capacity	2/2
Vic's 15-be Disselegment Protect or Responsitivities	1/1
SNS, 21ste Development Maximore Open Space	1/1
55o6 1 Starmwater Design Quantity Control	1/1
Mr6 2 Stories water Design Quality Control	1/1
SSC7 I Heat Island Effect, Non-Basif	0/1
SNc7 Ziveat Island Effect Roof	1/1
SScR Light Polision Reduction	1/1
95c9 - 54s Master Plan	971
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~	WYp1 Water she Reduction 20% Reduction	
	WSCI Water Efficient Landscaping	874
	\$6512 Inhibitual yell (Recommodur Technologyes)	017
	WECT Water Use Reduction	371
	WELF Process Water the Reduction	1/1

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A402	Microsoft Erengy Performance	
#Ap3	Fundamental Refrigerant Mignet	
gact	Option or Energy Performance	471
#A12	On Site Renewable Brency	0.1
#At2	Enhanced Commissioning	71
EAC4	Enhanced Refrigerant Highst	0.
8A(5)	Measurement and Verification	1
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MATERIALS AND RESOURCES	7 OF 13
MRp1 Storage and Collection of Recyclatries	Y
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MRc1.28u8sing Neuse, Maintain SOVs of Interior Non-Structural Eleman	era 07.E
MRc2 Congruetion Winder Might	2/2
MRc3 Materials Nouse	07.2
MREA Recycled Contains	2/2
HRc5 Regional Haterials	212
MRc6 Rapidy Honeworks Noter als	0/1
MRc7. Certified Stood	373

NDOOR ENVIRONMENTAL QUALITY	12 OF 15
EQp1 Minimum IAQ Pyrformance:	
EQp2 Environmental Total (in Senate (ETS) Contest	
EQs3 Minimum Acquetical Performance	
EQc1 - Outside Air Delivery Manstorony	37
EQc2 Incremed Vericlation	R/:
SQCESConstruction MQ Migran Flain (Nursing Construction)	37
EQL3 2Construction SAQ Migret Plan Before Occupancy	07:
EQUI Law Emitting Materials	47
EQCS - Indisor Chemical and Pollskam Source Control	17
HOVE 1Controllability of Systems Lighting	37
RQc6 2Controlisticity of Systems Phenesi Contact	0/
FQc7 1Thermal Constact Dysign	37
EQX7.21Nermal Confort Ventilation	17
EQc6.1Daylight and Views Douright	0.7
BQcB2Daylight and Virgo Virgo	87
EQc9 Enhanced Acoustical Performance	37.
EQc10 Mole Prevention	17

INNOVATION IN DESIGN	5 OF 6
Oct. I weap or an Green strawing policy program	1/1
(Dc1.1 toway#Cast in Direign	071
Oct. 7 (Oct. 5: Sustainable Purchasing - Restuced Malcury (Hg): e) Lamos	1/1
Oct 2 weeraner in Design	0/1
Oct 3 Exemplary Performance: SScS 2 Site Development Maximire Open- Solice	1/3
Oct Streenwise in Brings	0/1
Dr.1.4 Intervation in Dange	0/1
Oct 4 Herevaltien in Design - Exemplary Certifica Wood	1/1
Oc2   HIDH Accredited Professional	1/1
Dc3 - Day School as a Teaching Too	071

0	REGIONAL PRIORITY CHEDITS	2 0 f
	SSC) Brownerd Redevelopment	21
	SSc6.2 Storm water Design Quality Coresu	1/

FOTAL 63 OF 13

# Mount Greylock Middle High School

### MOUNT GREYLOCK MIDDLE HIGH SCHOOL



- Flexible Learning
- 2. Personalization
- 3. Collaboration and Connection
- 4. Visible Learning
- 5. Environmental Integration
- 6. Seamless Technology

























### Small Group Brainstorm

Work in small groups to brainstorm 5-7 Guiding Principles for renovated and/or new MSD facilities

Please take a screenshot of these Guiding Principles

- Real World and Brain-Based Learning
- Learning Communities
- School as Community Resource
- Flexible and Adaptable Spaces
- Outdoor/Nature Connections
- Sustainability/Building as Teacher
- Transdisciplinary Instruction
- Wrap Around Support
- Whole Child, Whole Community
- Visible Learning
- Community and Civic Hub
- Adaptability

- School Without Walls
- Ever Evolving
- Belonging and Ownership
- Small School Feel, Large School Pride
- Growth Mindset
- Flexibility and Evolution
- STEM and STEAM
- Integration and Synergy
- Outdoor Learning
- Joy of Learning

### Instructions

Group leaders please list your group's priority Guiding Principles.

# Please list your 2 personal favorite priority Guiding Principles here.

```
meeting and collaboration
                              work and life ready basic
                         funding from the state
                             wrap around support
   plan to meet needs wants
                     community and civic hub
need for new and or renov
                          joy of learning
      health and wellness
                               community schools
            community access
                community chool
                                  adaptability
                                                     community schools as hubs
                                                   real world and brain base
                                   tudent agency
           foster civic pride
                                 improved art spaces
                               community and civic hud
```





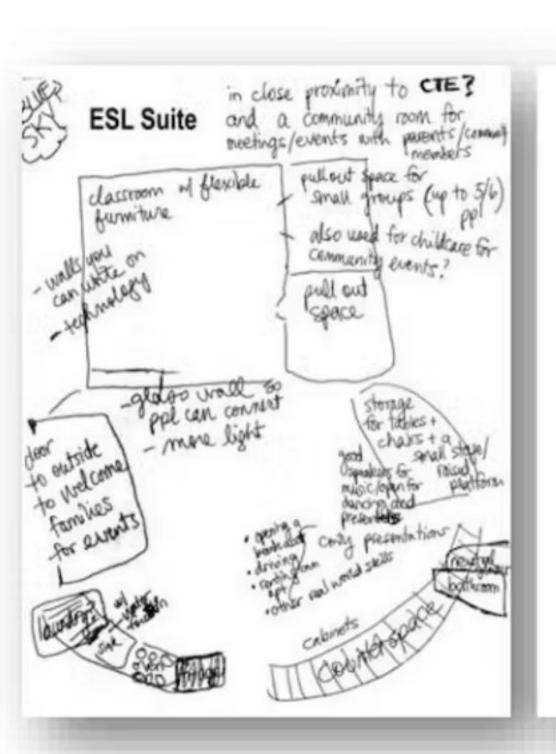
# Blue Sky Ideas

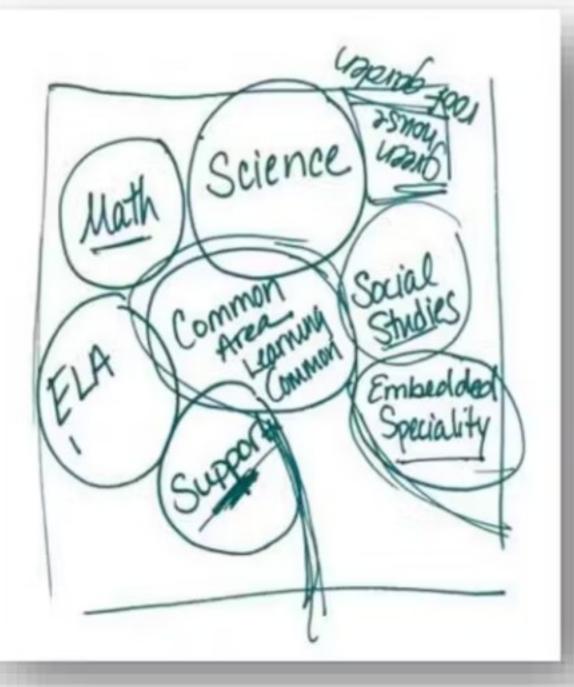
### Blue Sky Ideas ...

### Detailed

Take 5 minutes to describe and/or diagram one of your ideas in as much detail as possible

- Size
- Shape
- Use
- Furniture
- Lighting
- Color
- Occupants
- Etc.







#### Please share your Blue Sky aspirational ideas here.



Totally green self sustaining school.

Incredible brand new high school offering community resources and supported by the community

Soft start and end to school day

Teachers Village (Housing)

Transit Integrated Mobility

Housing for displaced families

Green school

Fully accessible playgrounds and genuine park-type spaces for ALL ages

Change i3 good and e need change



#### Please share your Blue Sky aspirational ideas here.



Additional staff to support the needs of all
studentsincrease graduation rates!

MSD as a strategic network of city-wide learning resources

Self-sustaining daycare facility in the school for the children of school employees

Housing development as part of a school campus

a beautiful, functional space that the taxpayers are proud of

Community-accessible banks, restaurants, etc... through CTE

Safe buildings!

Building Trades Program (building accessory dwelling units for community)

Hopefully, we could have multi use fields at the schools to elimate bussing to different places in the city.



### Please share your Blue Sky aspirational ideas here.



Manchester Library extension as part of a school

Senior Citizen enrichment programs led by students

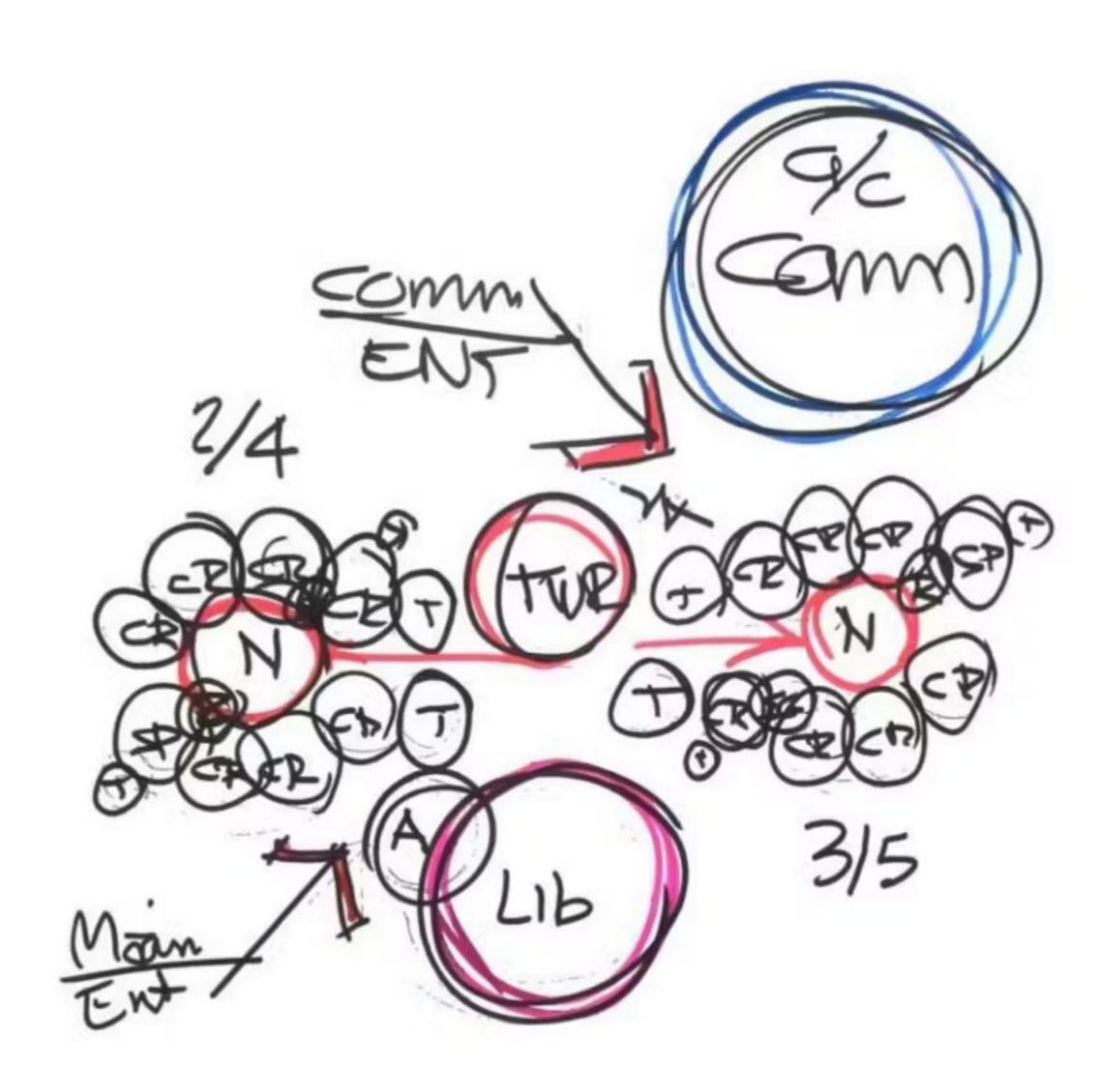
Day care facility in school as program and service



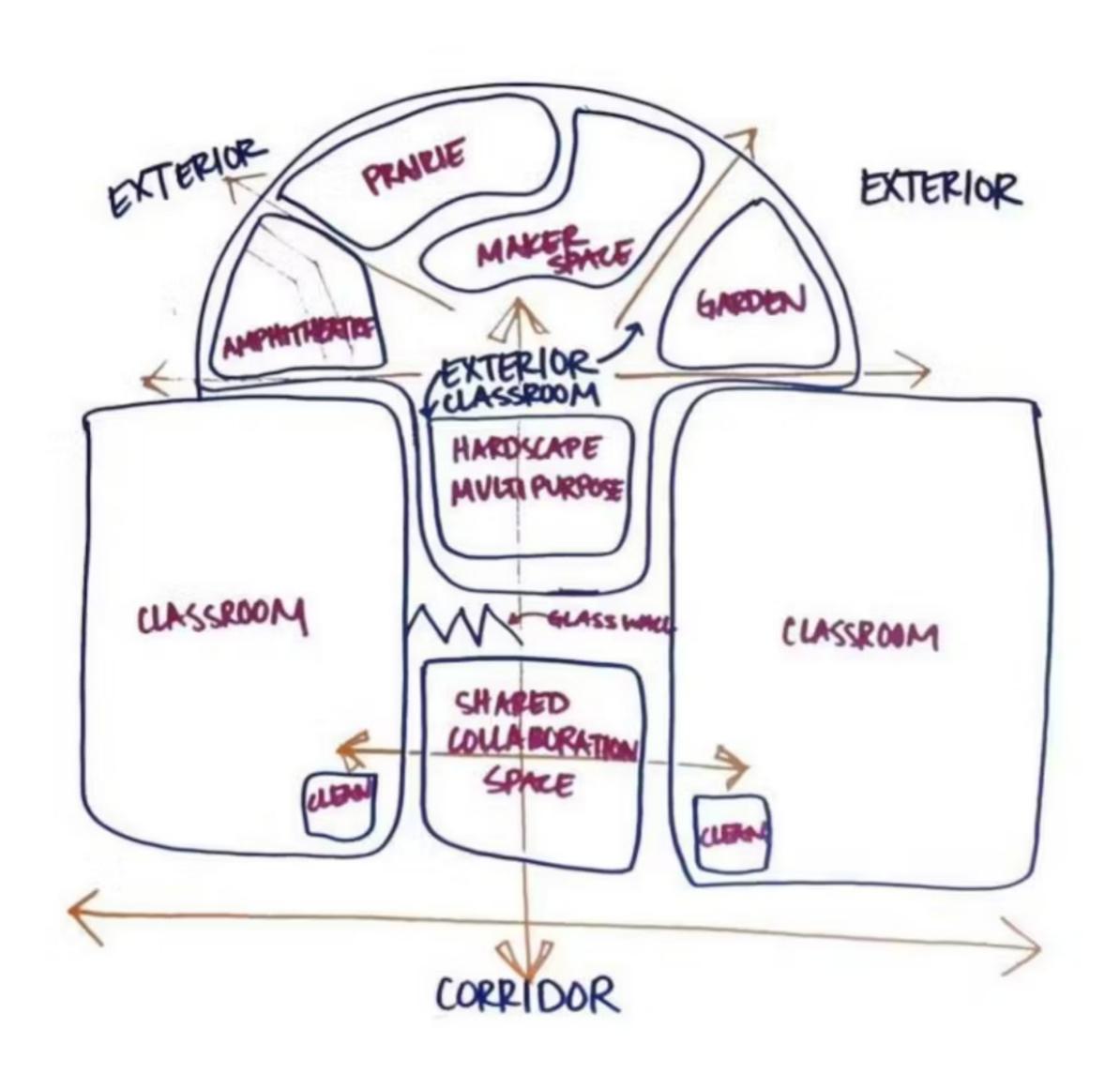


# Bubble Diagrams

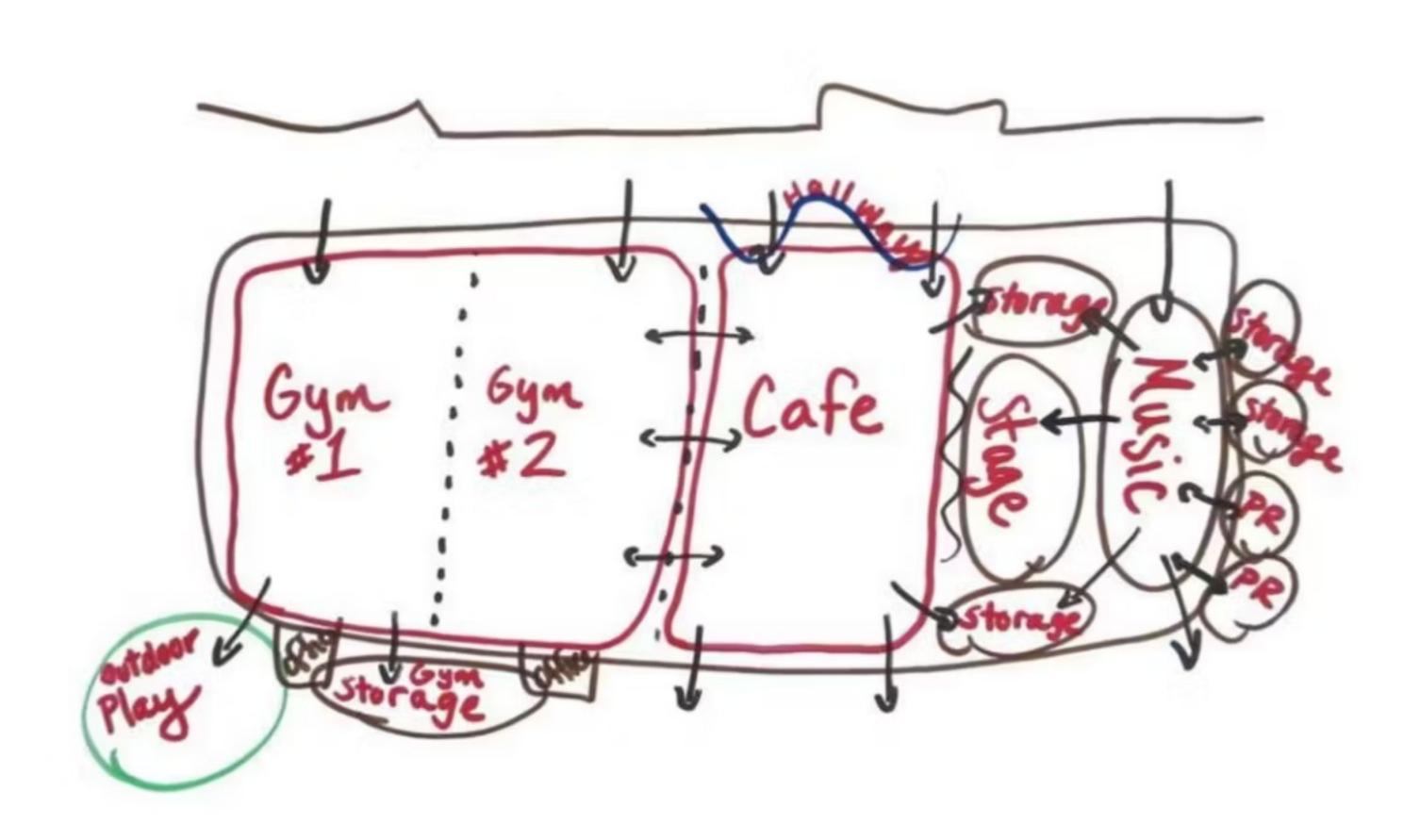
### Whole School Relationships



### Classroom Neighborhoods



### Community Access



### Bubble Diagramming Groups

- Group 1 Elementary School Adjacencies
- Group 2 Middle School Adjacencies
- Group 3 High School Adjacencies



# Next Steps and Q&A