PERKINS EASTMAN

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

REVERE HIGH SCHOOL

SBC JANUARY 27, 2022

SCEMATIC DESIGN SCHEDULE + PREVIEW

PROJECT SCHEDULE/TIMELINE

2021

FEASIBILITY STUDY (PDP & PSR) HIGHLIGHTS
- SC Approves Educational Plan & Initial space Summary
- SBC Approves Ed. Plan & ISS
- SBC Approves PDP Alternatives
- SBC Approves PDP

2022

YOU ARE HERE

FEASIBILITY STUDY (PSR) HIGHLIGHTS
- SBC Approves PSR **(2.24.2022)**
- PSR Submission Deadline **(3.2.2022)**

SCHEMATIC DESIGN HIGHLIGHTS
- MSBA FAS Meeting **(3.30.2022)**
- MSBA Board Meeting - Approved PSR **(4.27.2022)**
- SBC Meeting to Review Costs**(8.11.2022)**
- SBC Approval of SD **(8.18.2022)**
- SD Submitted to MSBA **(8.31.2022)**
- MSBA Approves SD at Board Meeting **(10.26.2022)**

2024 -2026

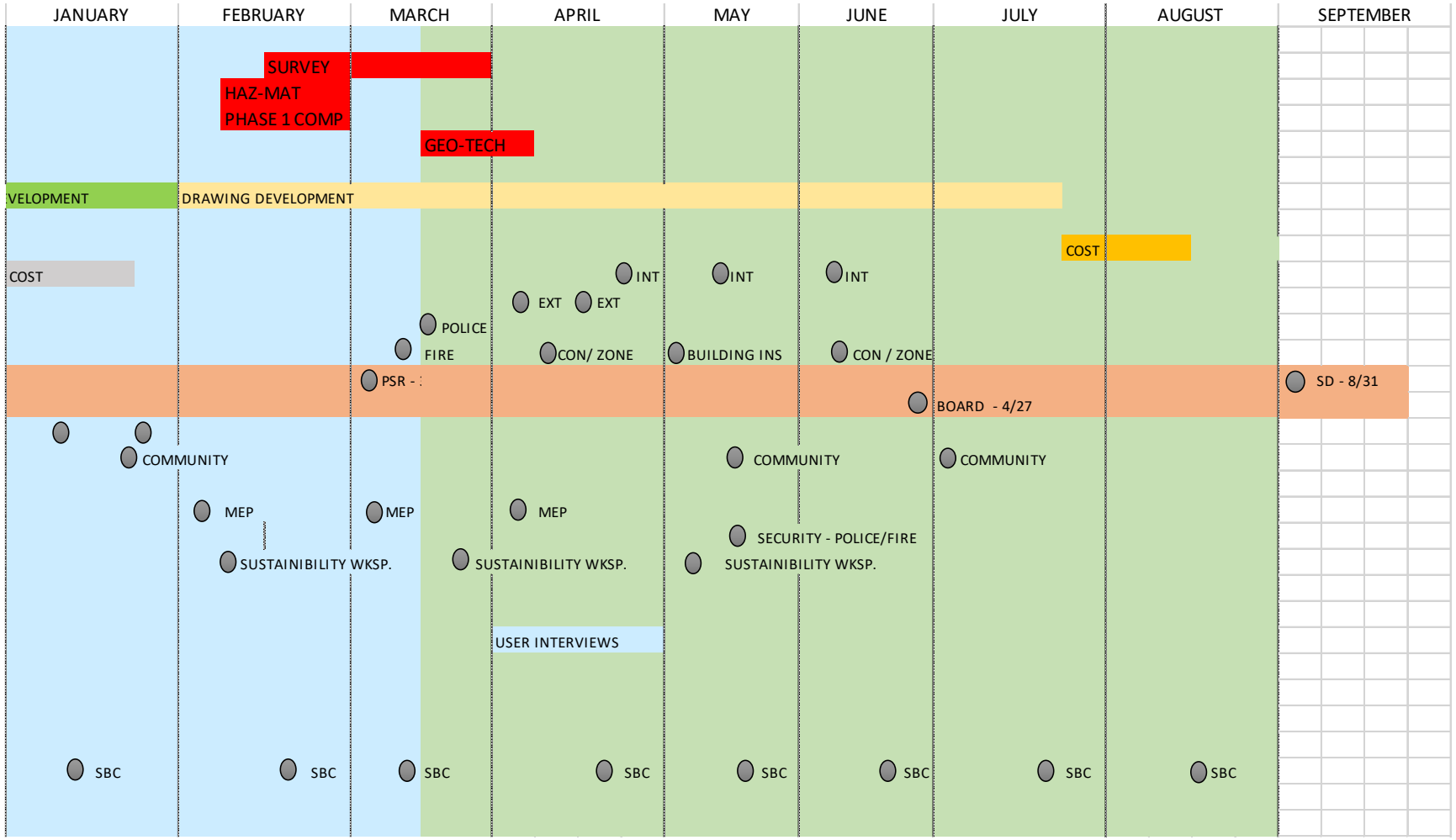
DETAILED DESIGN (DDS & CDS) MILESTONES
- DDs Issued for Estimates
- DDs Submitted to MSBA
- 60% CDs Issued for Estimates
- 60% CDs Submitted to MSBA
- 90% CDs Issued for Estimates
- 90% CDs Submitted to MSBA
- 100% CDs Completed

BIDDING/CONSTRUCTION MILESTONES
- Prequalify Filed Sub Trades
- Solicit CM Proposals
- Advertisements & Bidding

2024 -2026

BIDDING/CONSTRUCTION MILESTONES
- New Building Construction
- Systems Commissioning
- Punchlist & Closeout
- Building Occupancy
- Site Improvements

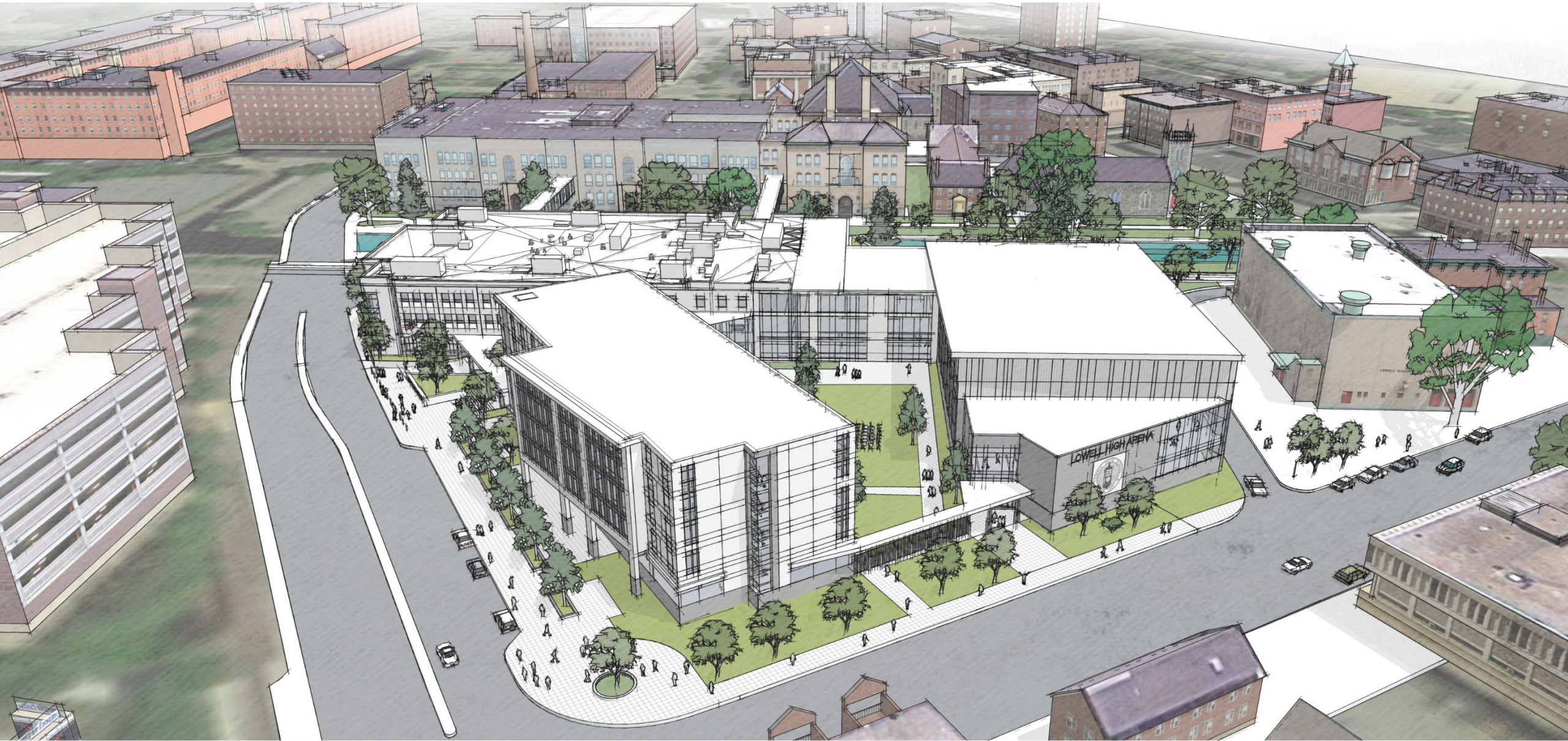
PRELIMINARY SCHEMATIC DESIGN SCHEDULE



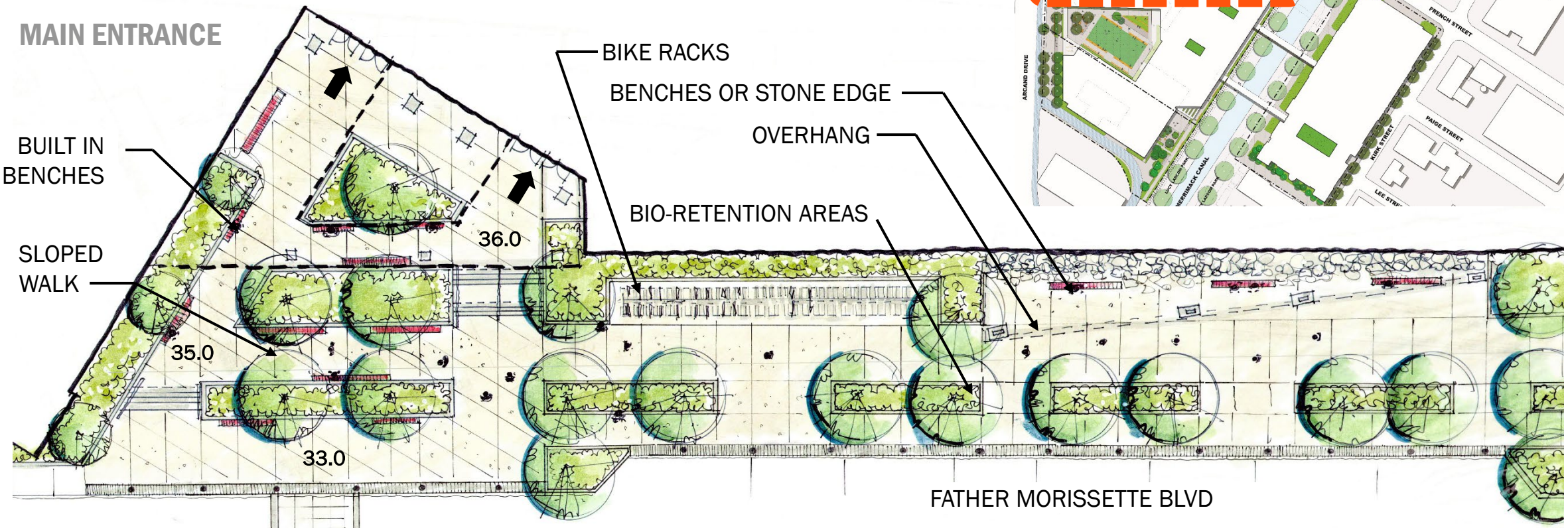
SCHEMATIC DESIGN-
EXTERIOR DESIGN EXAMPLE
(LOWELL HIGH SCHOOL)

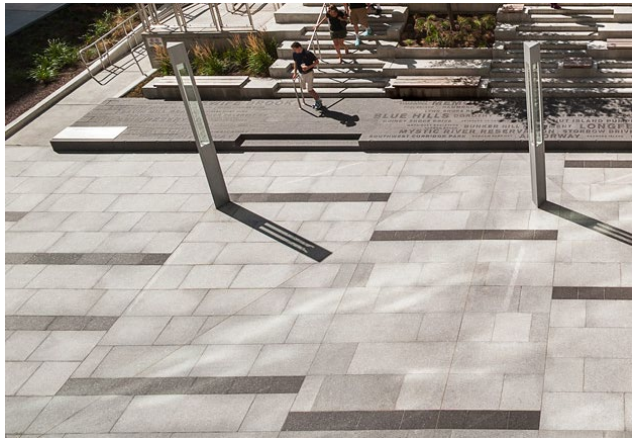
LOWELL HIGH SCHOOL

AERIAL VIEW OF PROPOSED CAMPUS



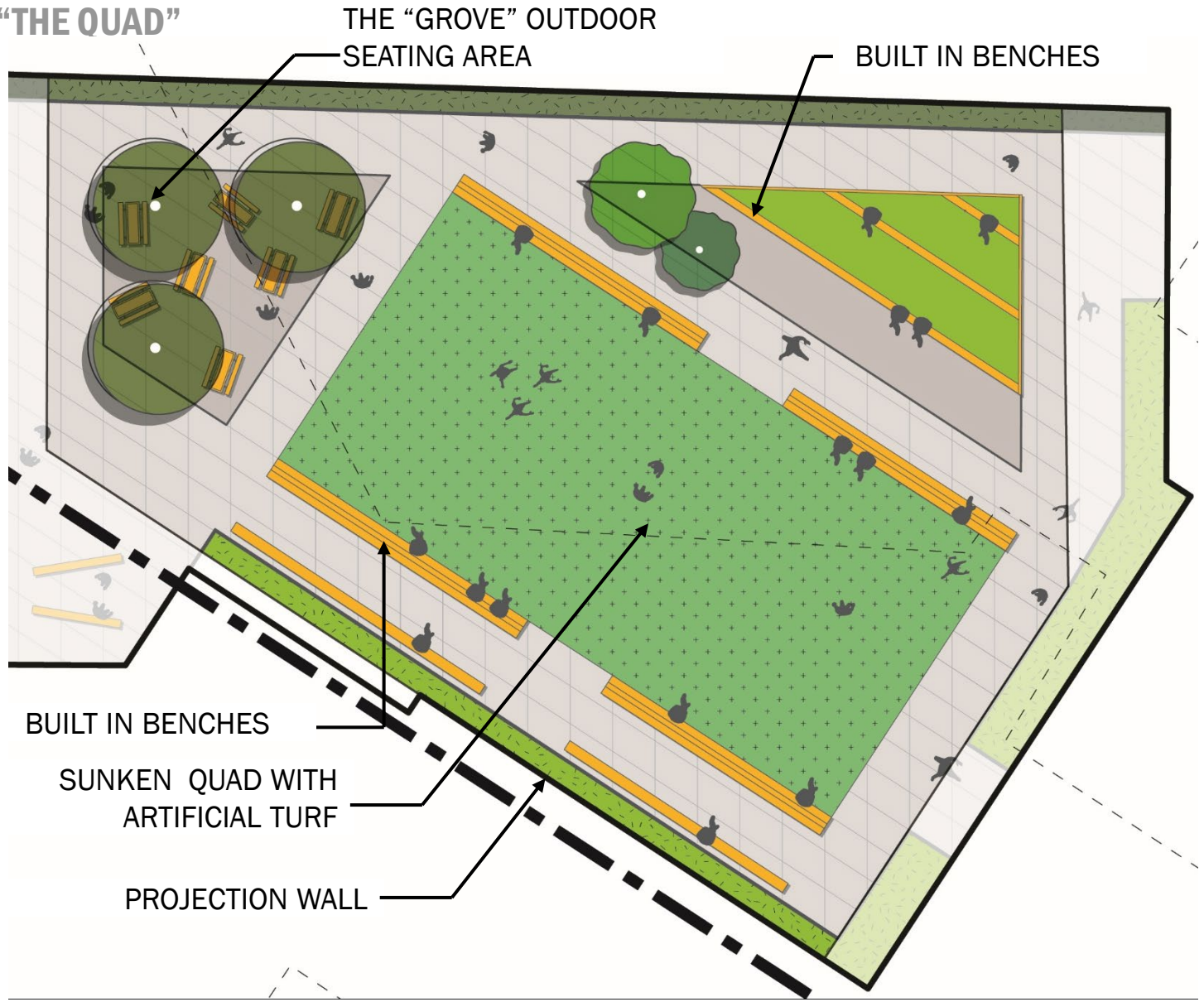
LANDSCAPE OPPORTUNITIES

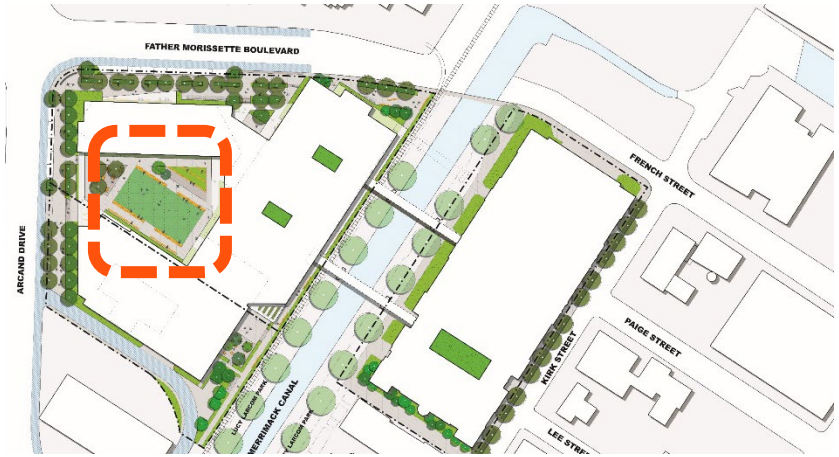




LANDSCAPE OPPORTUNITIES

"THE QUAD"





LOWELL HIGH SCHOOL

FRESHMAN ACADEMY VIEW FROM FATHER MORISSETTE BLVD & ARCAND DRIVE

LOWELL HIGH SCHOOL

DOWNTOWN LOWELL ARCHITECTURE

LOWELL HIGH SCHOOL

KNITTING TOGETHER MATERIALS

LOWELL HIGH SCHOOL

CIVIC/MUNICIPAL PRESENCE

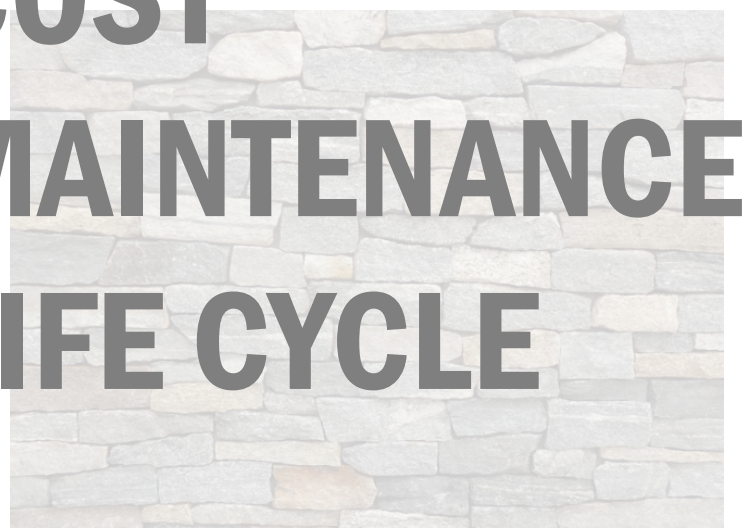
LOWELL HIGH SCHOOL

EXTERIOR MATERIALS INFORMATION

EXTERIOR MATERIALS

- DURABILTY
- COST
- MAINTENANCE
- LIFE CYCLE

BRICK VENEER

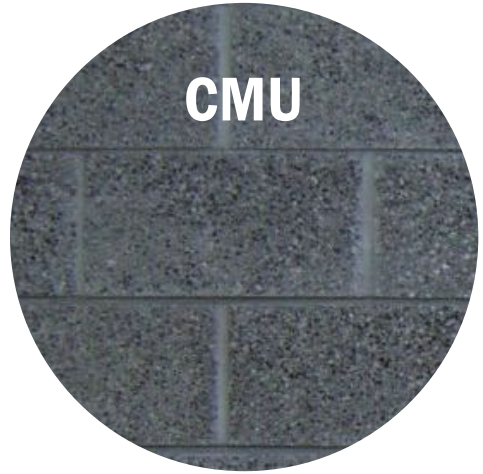


STONE VENEER

LIMESTONE/SIMULATED STONE

LOWELL HIGH SCHOOL

DURABLE BASE



DURABILITY :	**HIGH**	**MEDIUM**	**HIGH**
ABOVE AVERAGE:	STRENGTH, DURABILITY, WEARABILITY	N/A	STRENGTH, DURABILITY, WEARABILITY
AVERAGE:	MOISTURE, CHEMICAL AND STAIN RESISTANCE	STRENGTH, DURABILITY, WEARABILITY	MOISTURE, CHEMICAL AND STAIN RESISTANCE
BELOW AVERAGE:	N/A	MOISTURE, CHEMICAL AND STAIN RESISTANCE	N/A
ESTIMATED COST :	**$35-50/SF**	**$48/SF**	**$30-$40/SF**
MAINTENANCE:	**MEDIUM** PERIODIC RESEALING, POWERWASHING AND REPOINTING	**MEDIUM** PERIODIC RESEALING, POWERWASHING AND REPOINTING	**MEDIUM** PERIODIC RESEALING, POWERWASHING AND REPOINTING
LIFE CYCLE :	**75 YEARS**	**45 YEARS** DEPENDS ON THICKNESS	**50 YEARS**

LOWELL HIGH SCHOOL

FACADE MATERIALS

DURABILITY :	**MEDIUM**	**HIGH**	**MEDIUM**
ABOVE AVERAGE:	MOISTURE AND STAIN RESISTANCE	STRENGTH, DURABILITY, WEARABILITY, RESISTANCE	MOISTURE, CHEMICAL AND STAIN RESISTANCE
AVERAGE:	STRENGTH AND HEAT ABSORPTION	N/A	STRENGTH AND DURABILITY
BELOW AVERAGE:	DURABILITY AND WEARABILITY	HEAT ABSORPTION	HEAT ABSORPTION
ESTIMATED COST :	**$48/SF**	**$65/SF**	**$35/SF**
MAINTENANCE RATING:	**HIGH** PERIODIC RESEALING, POWERWASHING	**MEDIUM** PERIODIC RESEALING, POWERWASHING (AND OILING JOINTS IF SCORED)	**LOW**
LIFE CYCLE :	**30 YEARS**	**50 YEARS**	**40 YEARS**

LOWELL HIGH SCHOOL

EXTERIOR MATERIALS OPTIONS

OPTION 1

POLISHED CMU BASE/ BRICK FACADE

LOWELL HIGH SCHOOL

EXTERIOR MATERIALS OPTIONS

OPTION 2

SIMULATED STONE BASE/ BRICK FACADE

LOWELL HIGH SCHOOL

EXTERIOR MATERIALS OPTIONS

OPTION 3

POLISHED CMU BASE/ PHENOLIC FACADE

LOWELL HIGH SCHOOL

EXTERIOR FACADE COST COMPARISONS

	FRESHMAN ACADEMY	GYMNASIUM	TOTAL
PREFERRED SCHEMATIC REPORT BRICK BASE/METAL FACADE	$3,150,000	$1,449,900	$4,599,900
OPTION 1: POLISHED CMU BASE/BRICK FACADE	$2,532,620 (-$617,380)	$1,839,750 (+$389,850)	$4,372,370 (-$227,530)
OPTION 2: SIMULATED STONE BASE/ BRICK FACADE	$2,647,262 (-$502,738)	$1,960,350 (+510,450)	$4,607,612 (+$7,712)
OPTION 3: POLISHED CMU BASE/ PHENOLIC FAÇADE	$3,092,045 (-$57,955)	$1,683,750 (+$233,850)	$4,775,795 (+$175,895)

SCEMATIC DESIGN-
INTERIOR DESIGN EXAMPLE
(LOWELL HIGH SCHOOL)

INTERIOR MATERIALS

- DURABILTY
- COST
- MAINTENANCE
- LIFE CYCLE

LOWELL HIGH SCHOOL

TYPICAL CLASSROOM FINISHES

DURABILITY :	**HIGH**	**MEDIUM**	**HIGH**
ABOVE AVERAGE:	N/A	N/A	DURABILITY, WEARABILITY, MILDEW RESISTANCE
AVERAGE:	DURABILITY, STAIN RESISTANCE, WEARABILITY	STRENGTH, DURABILITY, WEARABILITY	STRENGTH, MOISTURE AND STAIN RESISTANCE
BELOW AVERAGE:	STRENGTH AND MOISTURE RESISTANCE	MOISTURE, CHEMICAL AND STAIN RESISTANCE	N/A
ESTIMATED COST :	**$6.50/SF**	**$.90/SF**	**$5-7/SF**
MAINTENANCE RATING:	**MEDIUM** EXCELLENT ACOUSTICS	**HIGH** DAILY SWEEPING AND WET MOPPING MONTHLY WAXING AND BUFFING SEMI-ANNUAL SCRUBBING AND STRIPPING	**MEDIUM** DAILY SWEEPING AND WET MOPPING ANNUAL WAXING AND BUFFING
LIFE CYCLE :	**VARIES**	**VARIES**	**30 YEARS**

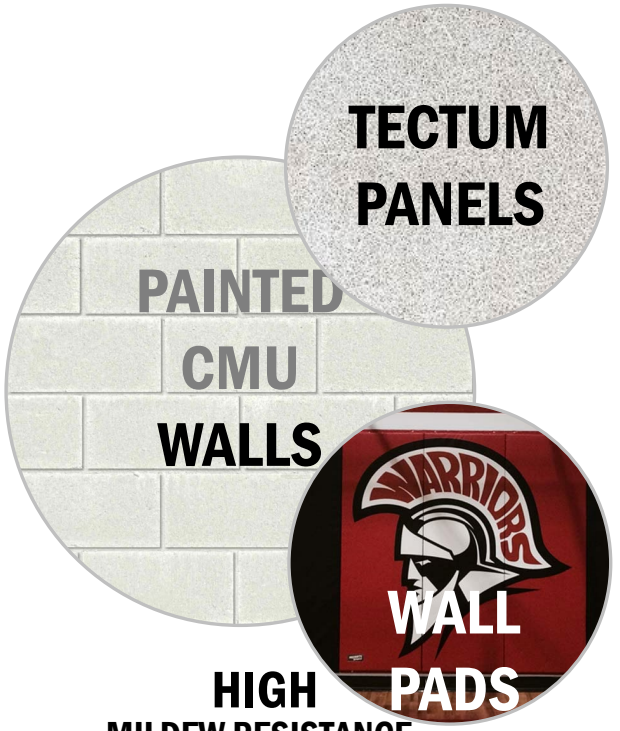
LOWELL HIGH SCHOOL

TYPICAL CORRIDOR FINISHES

DURABILITY :	**HIGH**	**HIGH**	**HIGH**
ABOVE AVERAGE:	N/A	STRENGTH, DURABILITY, WEARABILITY- ALL	DURABILITY, WEARABILITY, MILDEW RESISTANCE
AVERAGE:	DURABILITY, STAIN RESISTANCE, WEARABILITY	N/A	STRENGTH, MOISTURE AND STAIN RESISTANCE
BELOW AVERAGE:	STRENGTH AND MOISTURE RESISTANCE	N/A	N/A
ESTIMATED COST :	**$6.50/SF**	**$18.50/SF**	**$5-7/SF**
MAINTENANCE RATING:	**MEDIUM** EXCELLENT ACOUSTICS	**LOW** REGROUTING AS REQ'D	**MEDIUM** DAILY SWEEPING AND WET MOPPING ANNUAL WAXING AND BUFFING
LIFE CYCLE :	**VARIES**	**VARIES**	**30 YEARS**

LOWELL HIGH SCHOOL

TYPICAL GYMNASIUM FINISHES



DURABILITY :	**HIGH**	**HIGH**	**HIGH**
ABOVE AVERAGE:	ALL	MILDEW RESISTANCE STRENGTH, DURABILITY, WEARABILITY MOISTURE, CHEMICAL AND STAIN RESISTANCE	STRENGTH, DURABILITY, WEARABILITY MOISTURE, CHEMICAL AND STAIN RESISTANCE
AVERAGE:	N/A		
BELOW AVERAGE:	N/A		N/A
ESTIMATED COST :	**$2.50/SF**	**$18.00/SF**	**$15.00/SF**
MAINTENANCE RATING:	**LOW** PERIODIC REPAINTING	**MEDIUM** PERIODIC SCRUBBING, PAINTING AND RE-POINTING	**LOW** DAILY SWEEPING & DAMPMOPPING PERIODIC SANDING FOR WOOD FLOOR
LIFE CYCLE :	**VARIES**	**VARIES**	**10+/VARIES**

LOWELL HIGH SCHOOL

GYMNASIUM

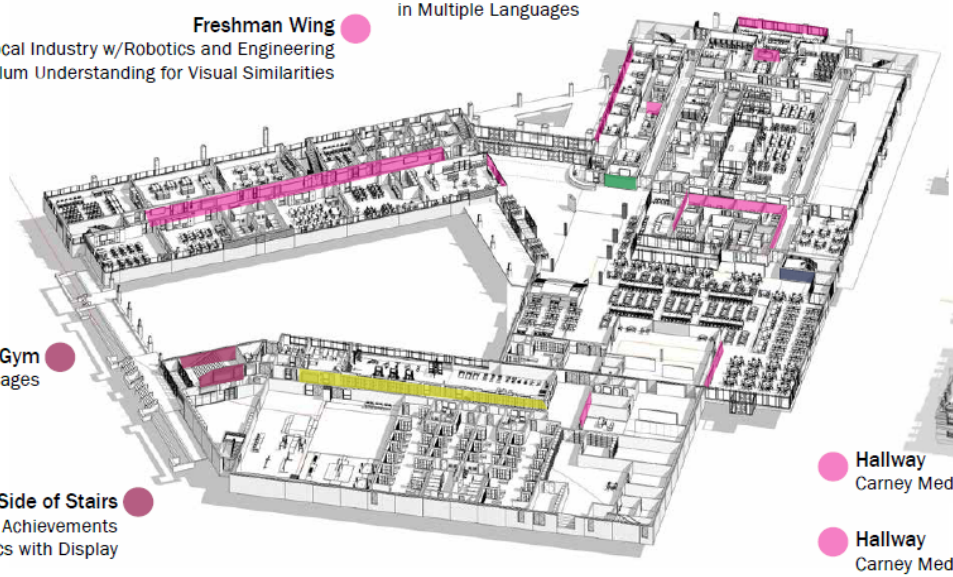
EXPERIENTIAL GRAPHICS EXAMPLE

(LOWELL HIGH SCHOOL)

LOWELL HIGH SCHOOL

EXPERIMENTAL GRAPHICS

First Floor Plan Experiential Graphics



Admin Windows
LHS School Pride

Alumni Wall
Tie to Carney Medals

Main Office Wall
Unified Graphics
w/5 Admin Houses - Textile

Teacher Dining Windows
LHS School Pride

Glass in Entrance Area
LHS on Brick Wall

Student Support Suite
Welcome Wall
in Multiple Languages

Teacher Dining
Culture/Core Values

Freshman Wing
Tie Local Industry w/Robotics and Engineering
Need Curriculum Understanding for Visual Similarities

Alumni Wall
Alumni History Wall

Auditorium Media Wall
Video Showcase: Previous Fine Arts/Music Performances

Auditorium Digital Display
Performance Posters School Announcements Integrated with School Signage

Wall Up Stairs to Gym
Historic Sports Images

Hallway
Carney Medals

Side of Stairs
Athletic Achievements
Integrate Graphics with Display

Hallway
Carney Medals

Athletic Display Cases
Athletic Artifacts and Trophies

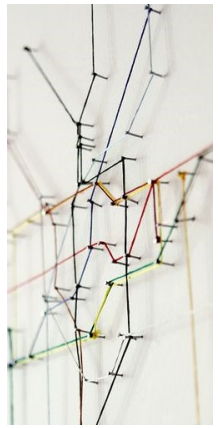
Athletes Passage
Athletics History/
Time Line

Cafeteria Wall
Diversity in Lowell
An exploration of immigrant groups and their contributions to the Lowell community
- Global Maps
- Neighborhood Maps

Cafeteria Digital Display
Class Photos
Yearbook Photos
Student Work Showcase
Upcoming Events and Information

Wall Behind Auditorium
Public Place for Future Art

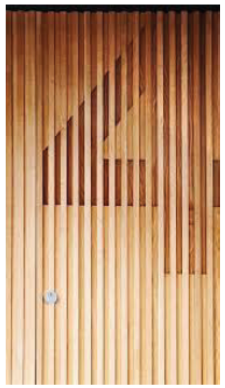
- Static Graphic
- Integrated Graphics
- Designated for Future Use
- Display Case (Lighting Needed)
- Digital Display (Electricity Needed)
- Media Display (Electricity Needed)
- Alumni Wall



LOWELL HIGH SCHOOL

EXPERIMENTAL GRAPHICS

5 INSTALLATION ELEVATION
SCALE: 1/4" = 1'-0"



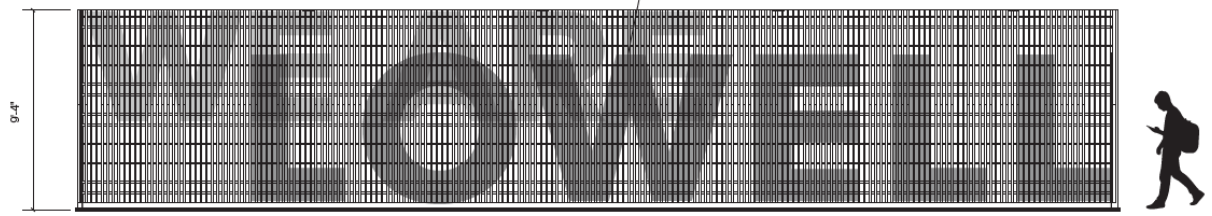
Graphics
Digitally printed graphics applied directly to slat system.

Option 1: Stained wood aesthetic
Option 2: Applied Paint aesthetic

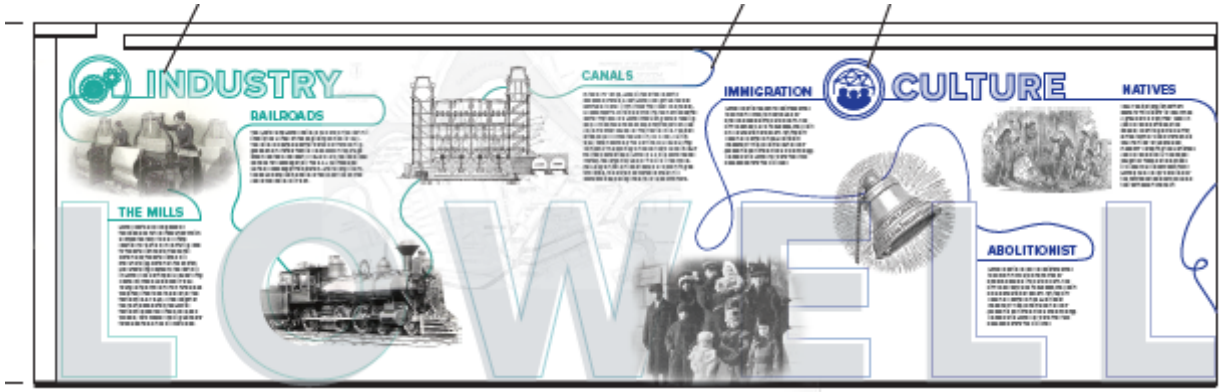
Final finishes to be coordinated fabricator to coordinate flat system detail with architect and GC.

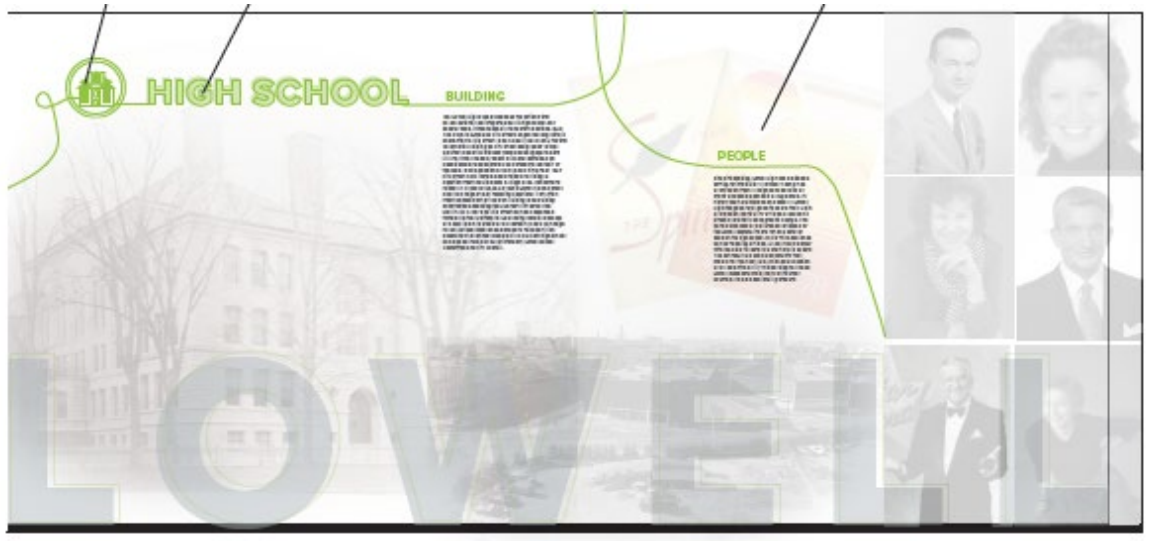
Fabricator to provide finish samples and partial working prototype prior to production.

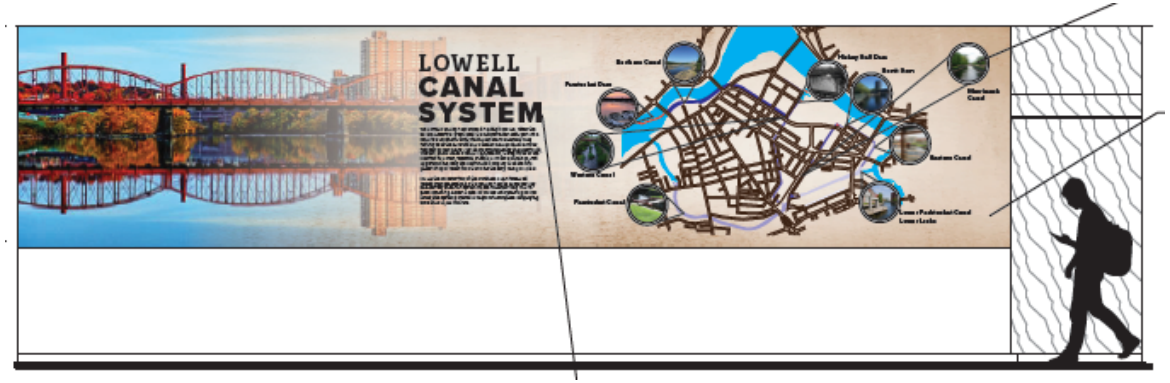
Additional cost item:
Painted or vinyl wall graphic (We Are) applied to wall surface behind slat system, in addition to printed graphics (Lowell) on slat system.



1 WOOD SLATS EAST WALL 2FL W
SCALE: 1/4" = 1'-0"







PERKINS EASTMAN

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

REVERE HIGH SCHOOL

SBC JANUARY 27, 2022