

LAWRENCE HIGH SCHOOL

design review | USD 497 board meeting | 06.25.2018

gouldevans

AGENDA

Goals

Engagement

A New Building Diagram

Concept Development

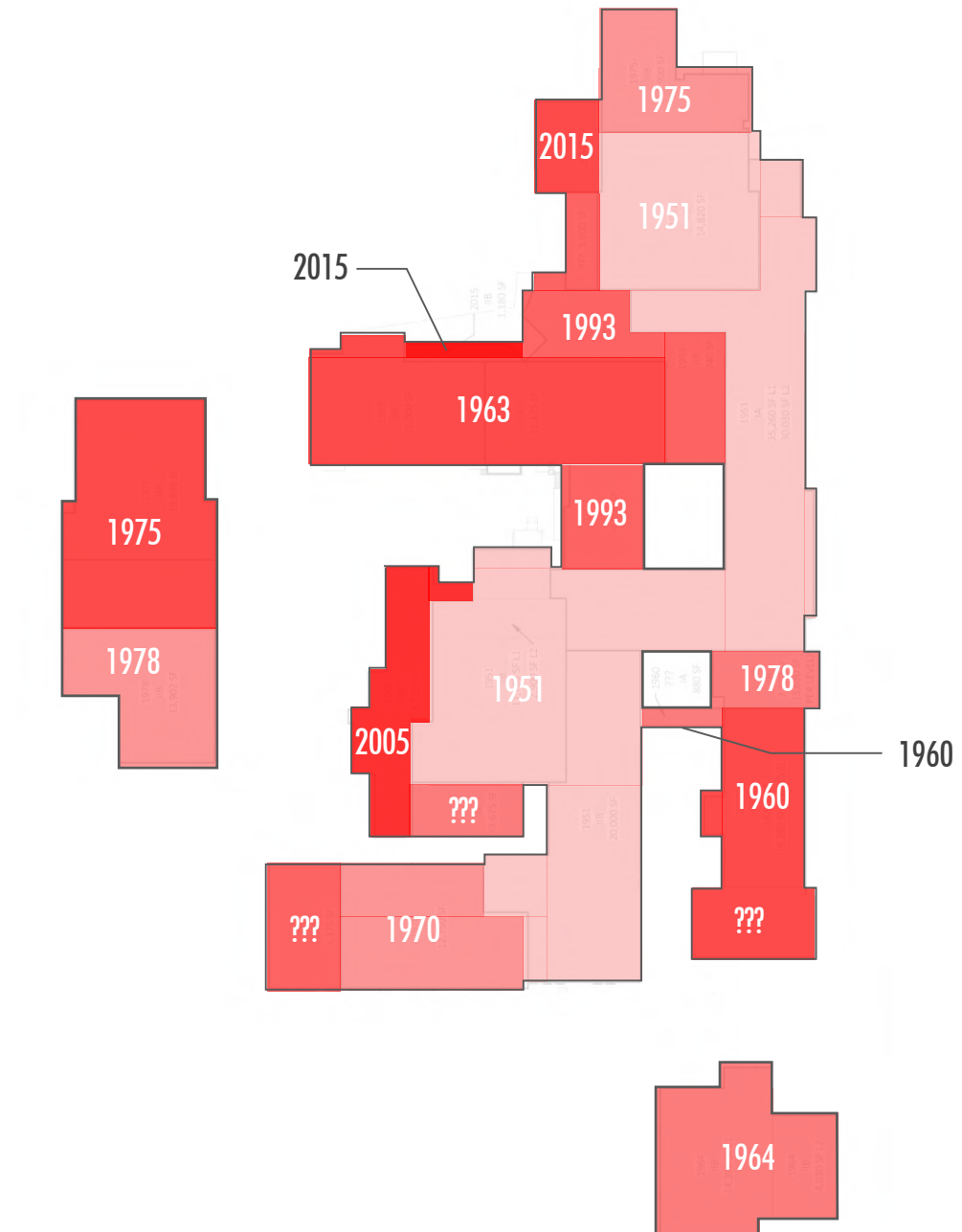
Site Development

Furniture Pilot

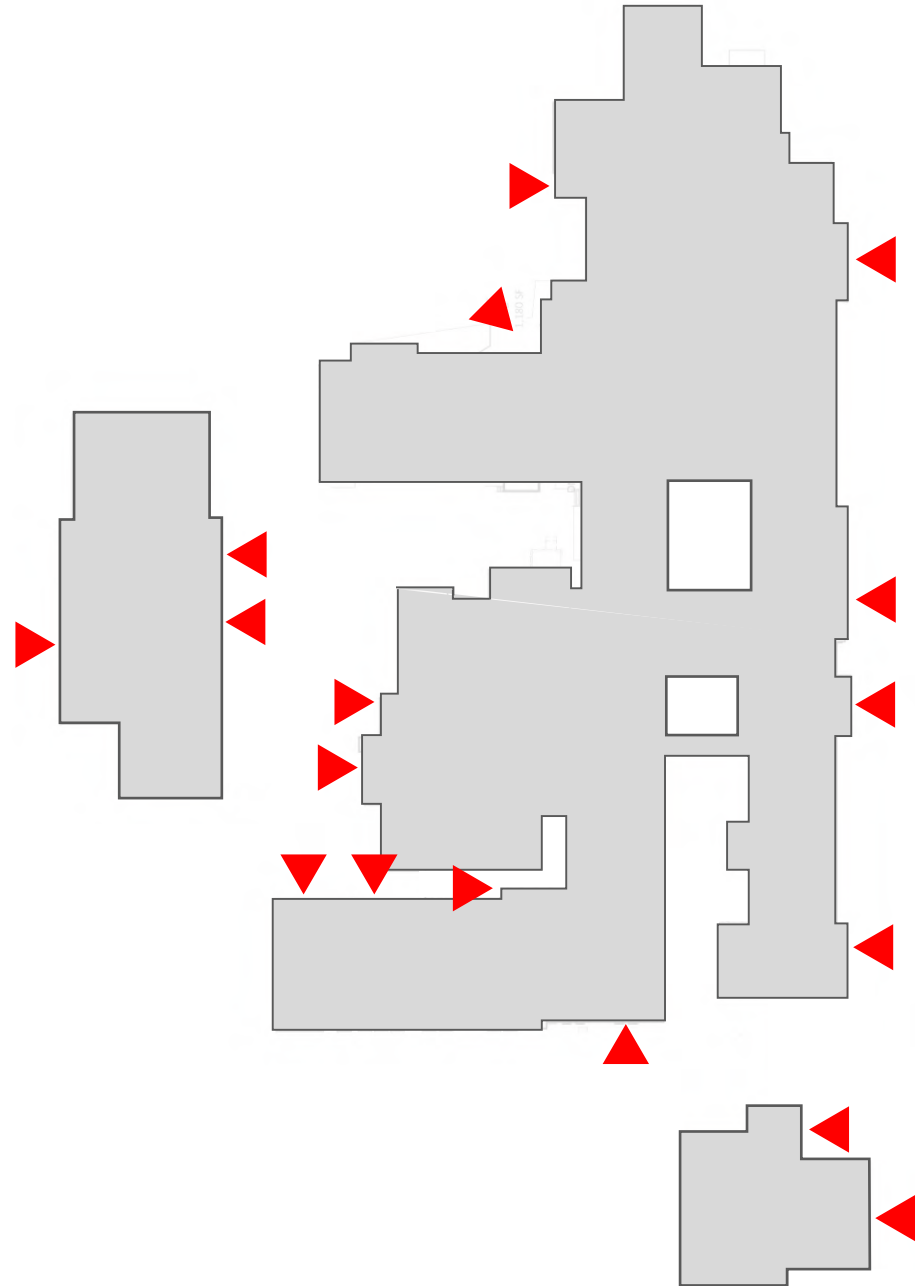
Sustainability & Wellness

Schedule / Budget

EXISTING



EXISTING



EXISTING



EXISTING



MASTERPLAN GOALS

1. Create 21st century learning environments
supporting student-centered learning
2. Accommodate a growing student population
3. Provide a safe and secure campus
4. Accommodate student privacy
5. Create equity across the district
6. Strategic MEP and systems upgrades

ENGAGEMENT

DESIGN AND CONSTRUCTION COMMITTEE 1X MONTH SINCE SEPTEMBER 2017
teachers, administrators, faculty, parents

DISTRICT-LEVEL SPECIAL EDUCATION AND LGBTQ LEADERS 10.16.2018, 05.30.2018

DISTRICT-LEVEL PROJECT-BASED LEARNING LEADERS 10.05.2017, 11.09.2018,
04.02.2018, 04.24.2018

DISTRICT-LEVEL SUSTAINABILITY LEADERS 10.19.2017, 11.28.2017

LIBRARIAN AND MEDIA SPECIALIST 10.09.2017, 11.17.2017, 01.25.2018

CAREER & TECHNICAL EDUCATION (CTE) TEACHERS 09.15.2017, 09.25.2017

FINE ARTS TEACHERS 03.09.2018, 06.21.2018

PERFORMING ARTS TEACHERS 03.27.2018, 06.21.2018

SPECIAL EDUCATION TEACHERS 01.23.2018

ATHLETICS COACHES AND TEACHERS 01.23.2018

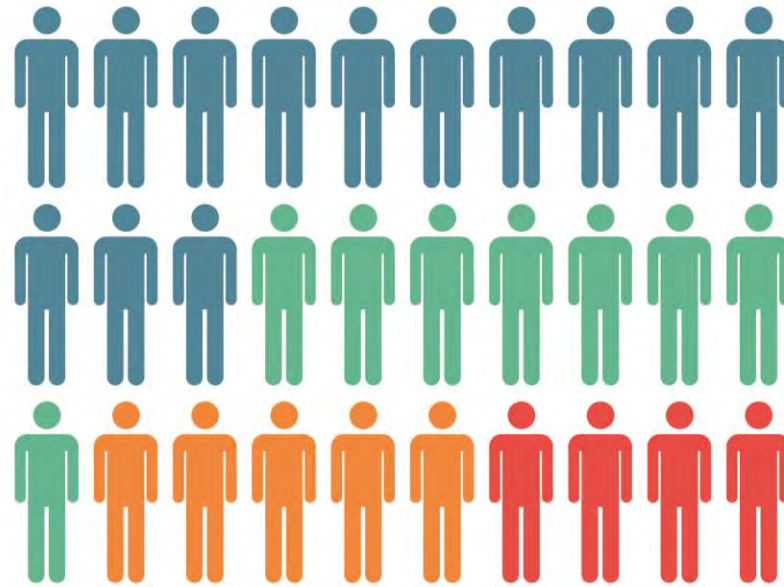
ADMINISTRATORS 03.08.2018

FACULTY (VIA SURVEY)

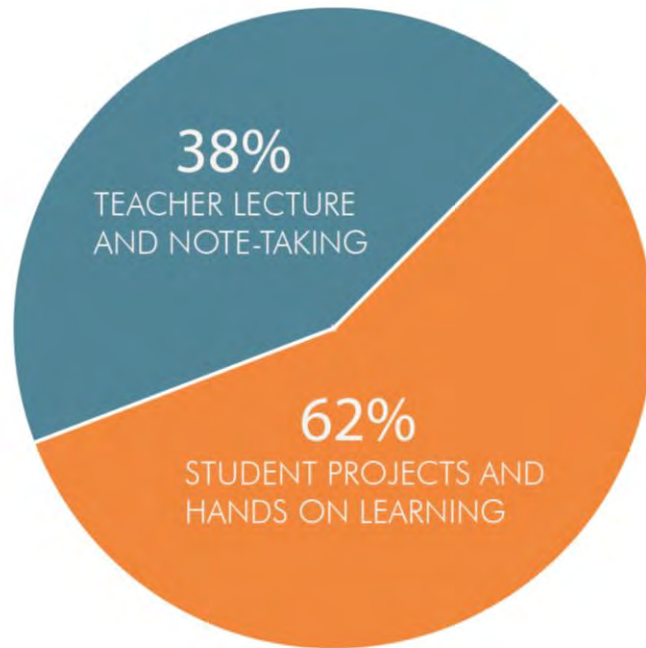
STUDENT BODY (VIA SURVEY)

STUDENT SURVEY

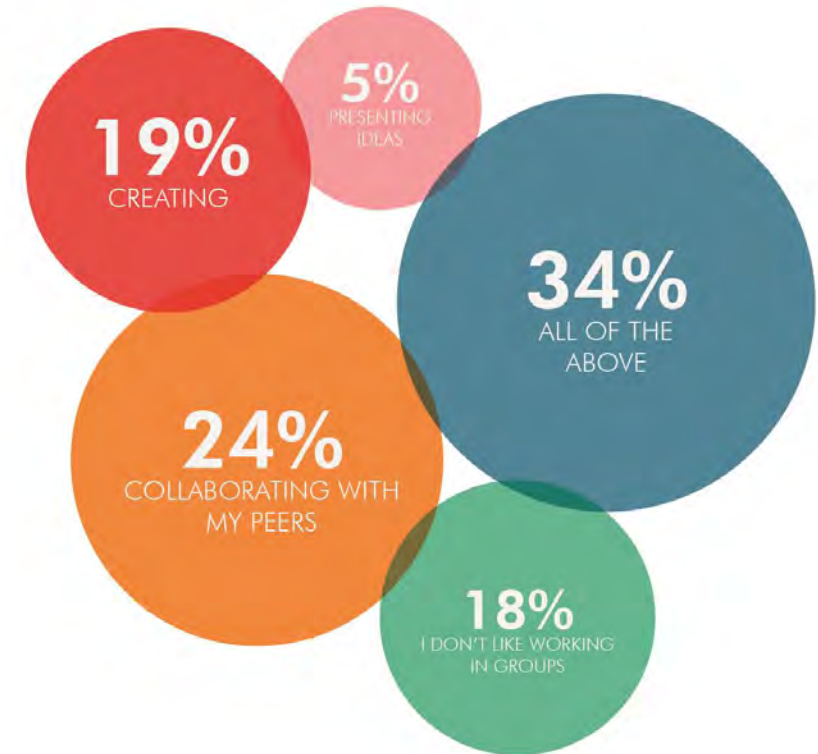
790 STUDENTS
(49% STUDENT POPULATION)



WHAT IS YOUR TEACHING AND LEARNING PREFERENCE?

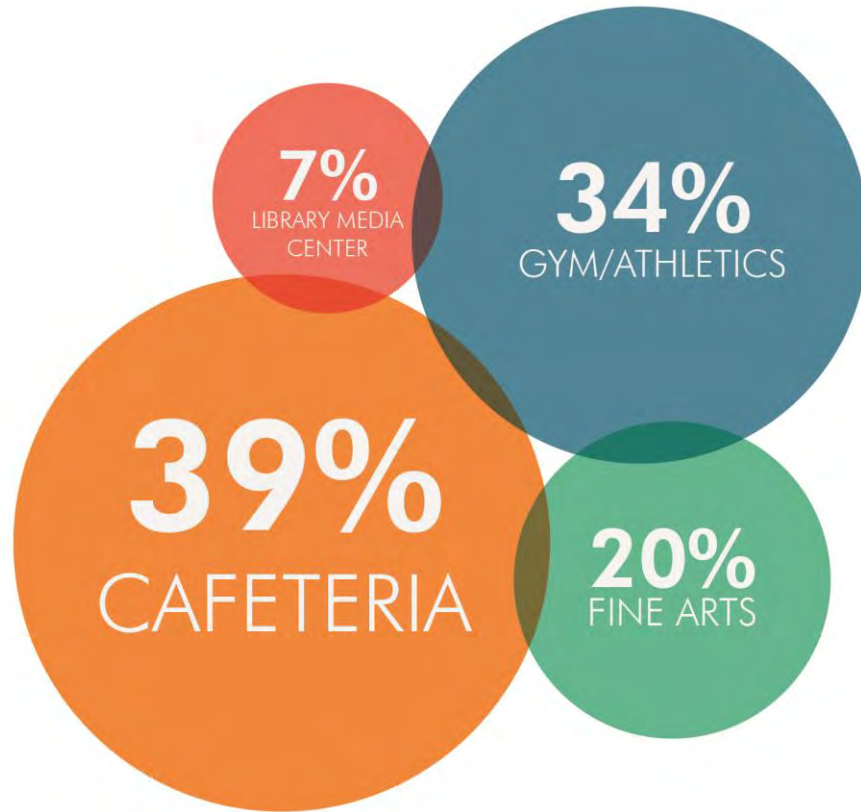


WHAT DO YOU ENJOY ABOUT LEARNING AND WORKING IN GROUPS?



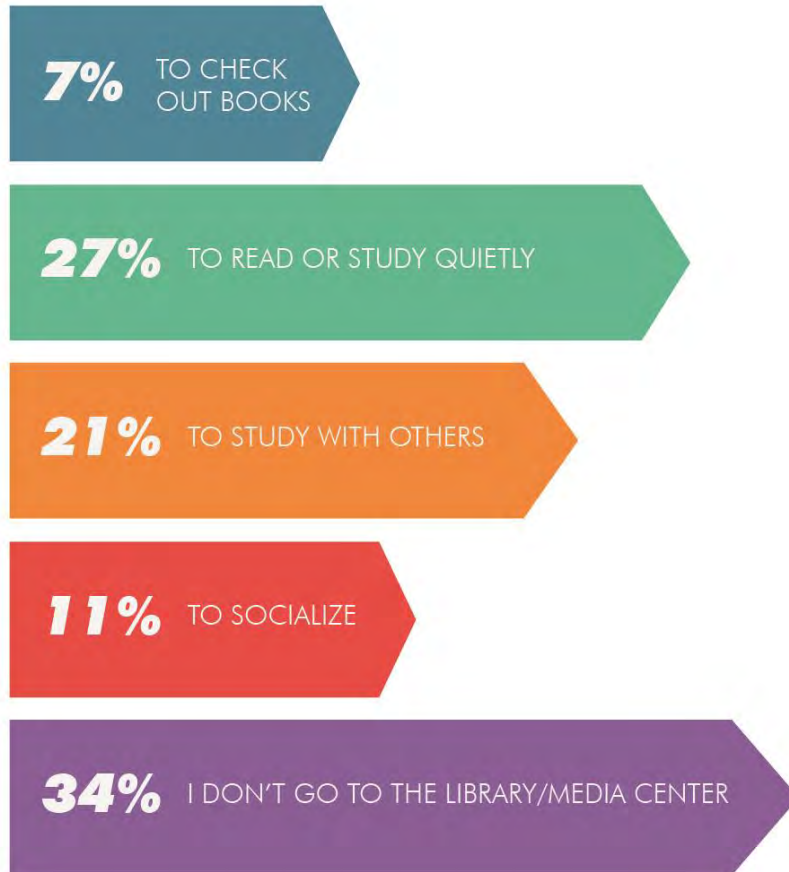
a majority of students like to learn through hands-on learning with peers... a need for a **collaborative learning environments**

WHERE DO YOU CONSIDER THE HEART OF THE SCHOOL TO BE?



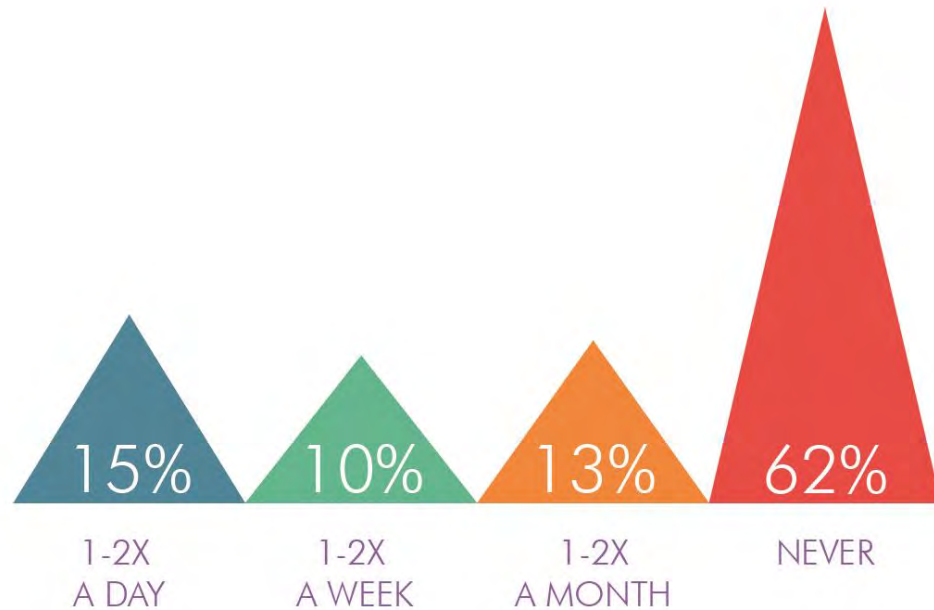
academic / media spaces not recognized as “heart” of school... how can we **strengthen core academic areas so they serve as a source of pride** and create academic resources that serve as a geographic hub to the school?

WHAT BEST DESCRIBES HOW YOU USE THE LIBRARY?



the majority of students use the library as a study space... how can we create a **Media Center that supports the needs of 21st century students?**

HOW OFTEN DO YOU USE YOUR ACADEMIC LOCKER?



academic lockers are being used less with the introduction of 1:1 devices... how can we **repurpose locker real estate to support 21st century learning?**

FACULTY SURVEY OUTCOMES

SUSTAINABILITY / WELLNESS

- Can we create an atmosphere / culture of '**HEALTH AND WELLNESS**'?

SUSTAINABILITY / DAYLIGHT / OUTDOOR LEARNING

- Can we deliver **DAYLIGHT TO 100% OF CORE CLASSROOMS**?

CTE / MEDIA / ART / MAKER

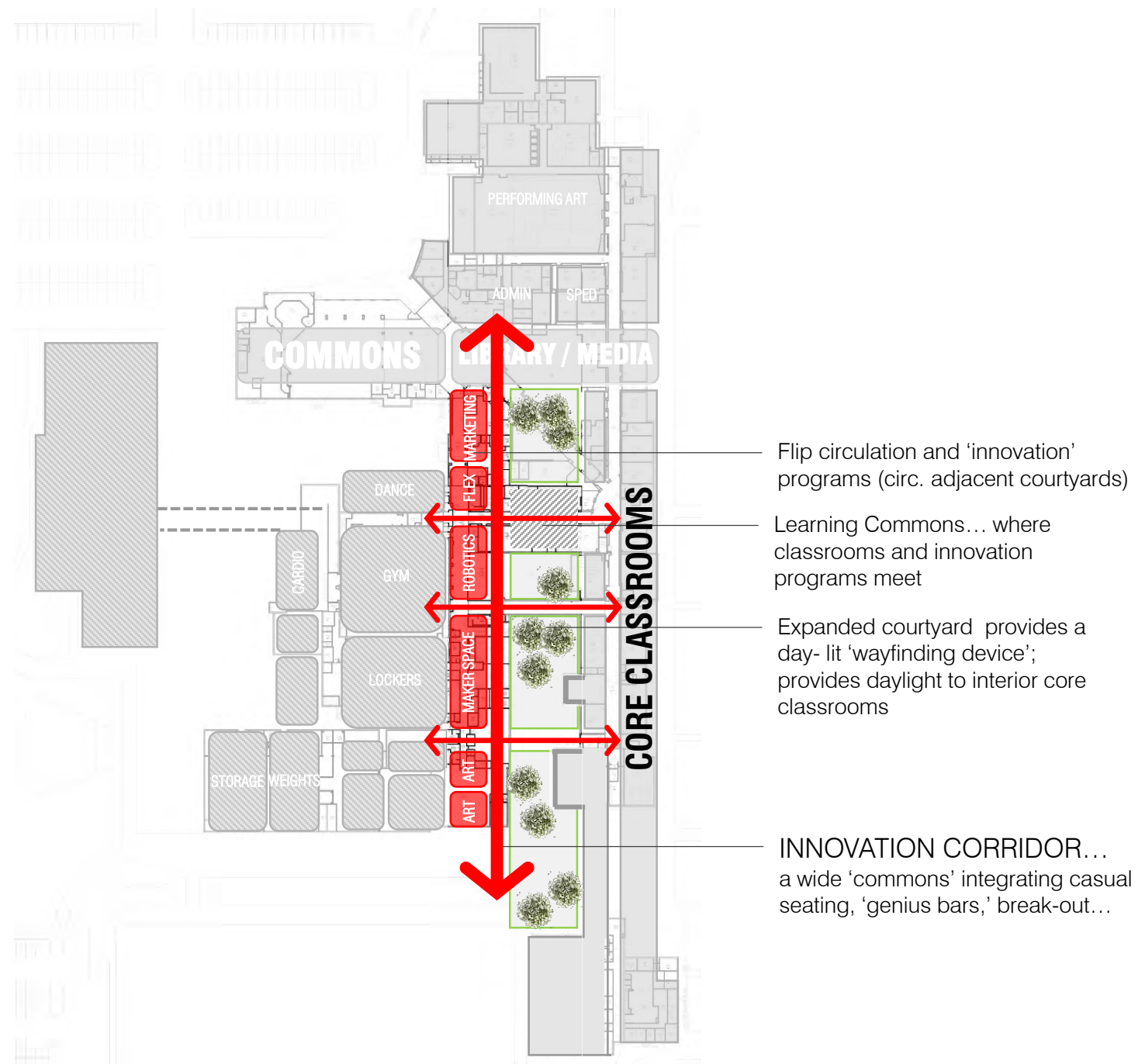
- Can we create **A MORE ACCESSIBLE MEDIA CENTER**, increasing utilization and student resources, yet providing quiet space and security where needed?
- **CAN CTE BE 'FRONT AND CENTER'** ... displaying hands-on learning opportunities?
- What if **HANDS-ON LEARNING IS 'FRONT AND CENTER'** ... connecting core classrooms to CTE, Media, Art, and Maker Space?... a new "Innovation District"

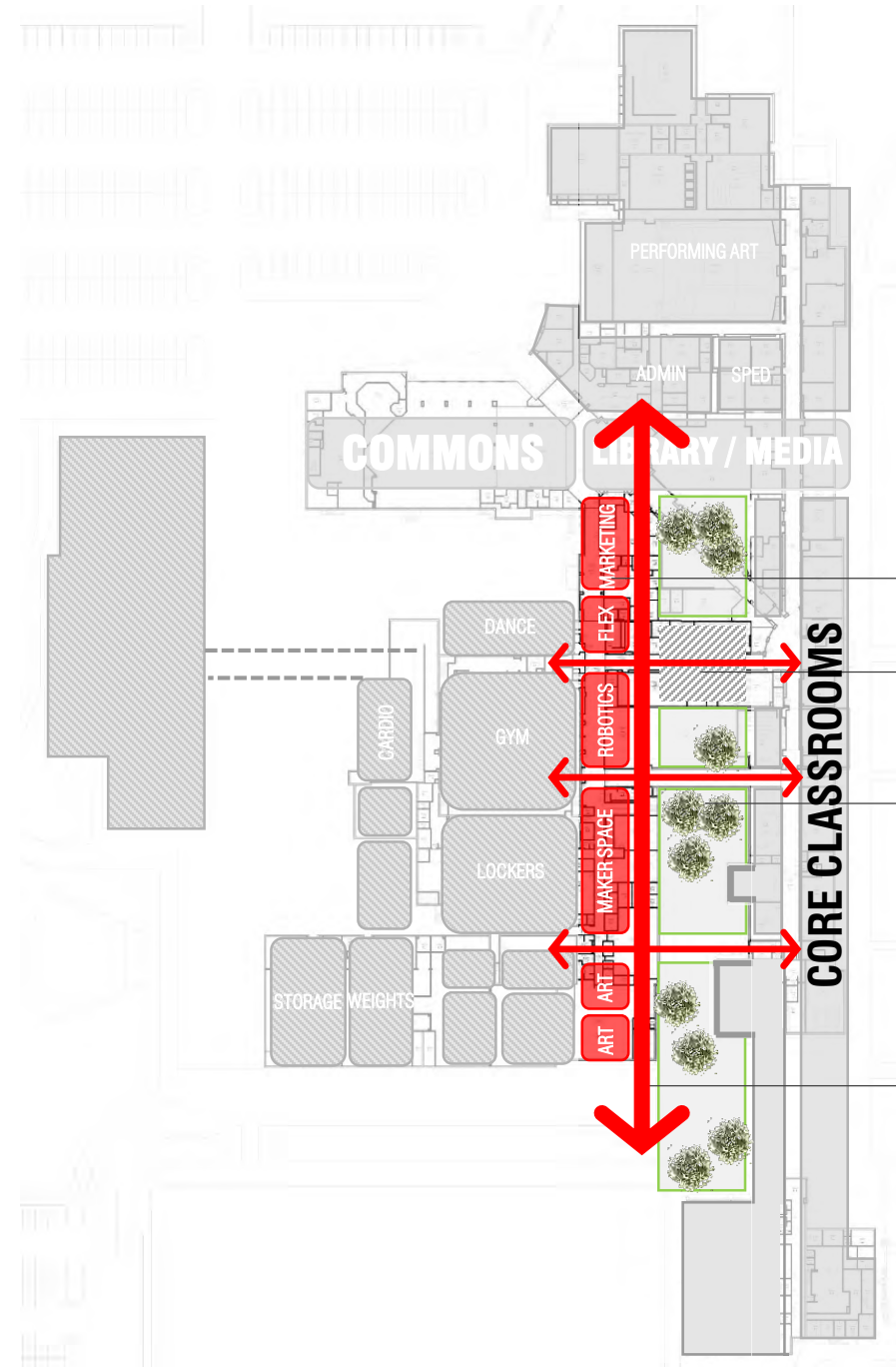
A NEW BUILDING DIAGRAM

1

INNOVATION 'DISTRICT'

a central resource connecting
core classrooms to hands-on
opportunities in robotics,
video production, art,
journalism, maker spaces,
and Career and Tech Ed





Flip circulation and 'innovation' programs (circ. adjacent courtyards)

Learning Commons... where classrooms and innovation programs meet

Expanded courtyard provides a day-lit 'wayfinding device'; provides daylight to interior core classrooms

INNOVATION CORRIDOR... a wide 'commons' integrating casual seating, 'genius bars,' break-out...

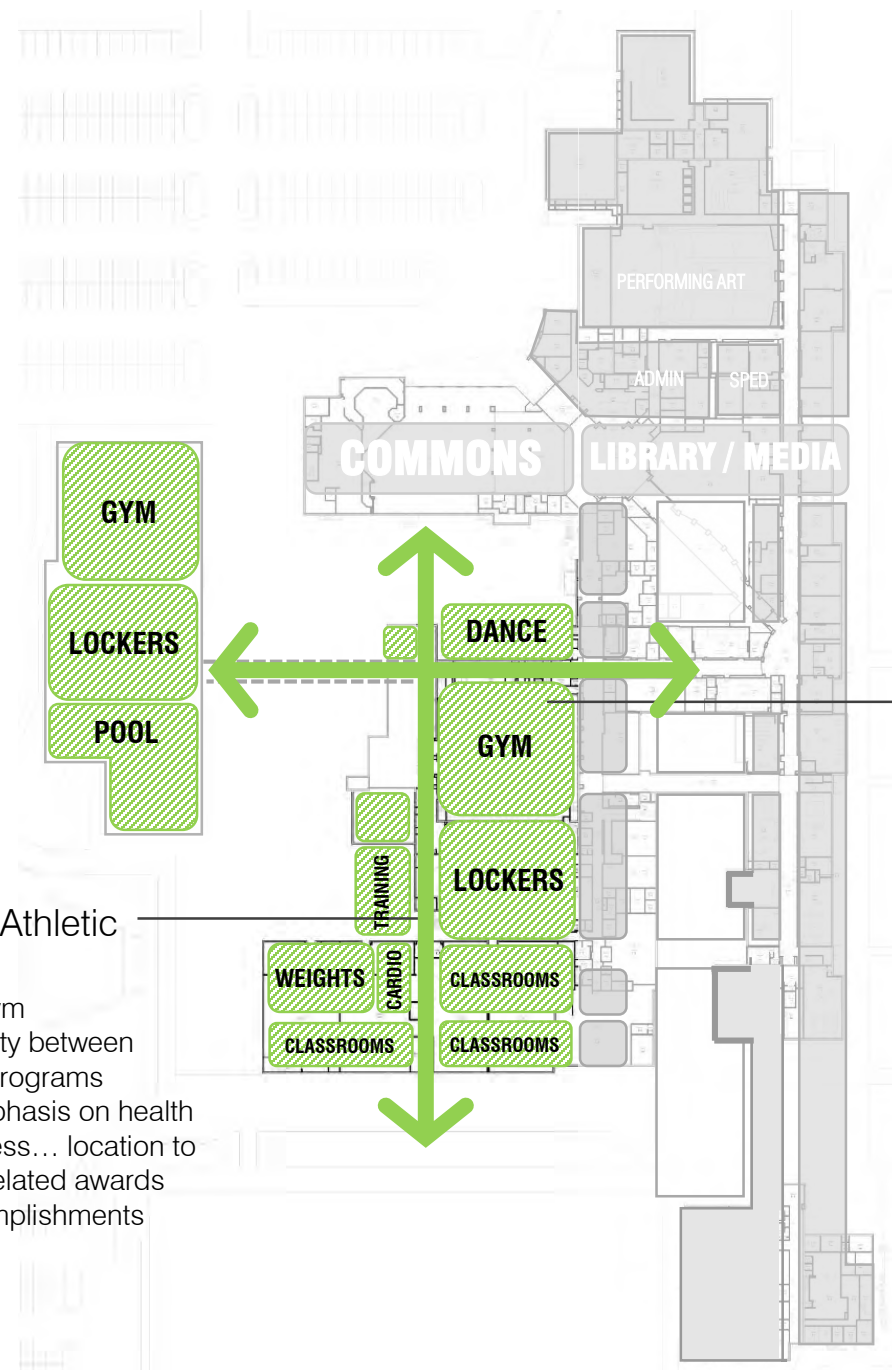
2

WELLNESS/ ATHLETIC 'DISTRICT'

consolidating programs
that speak to the
related initiatives of
health, wellness,
nutrition and fitness

Wellness / Athletic Corridor

- Entry to gym
- Connectivity between wellness programs
- Visual emphasis on health and wellness... location to show off related awards and accomplishments



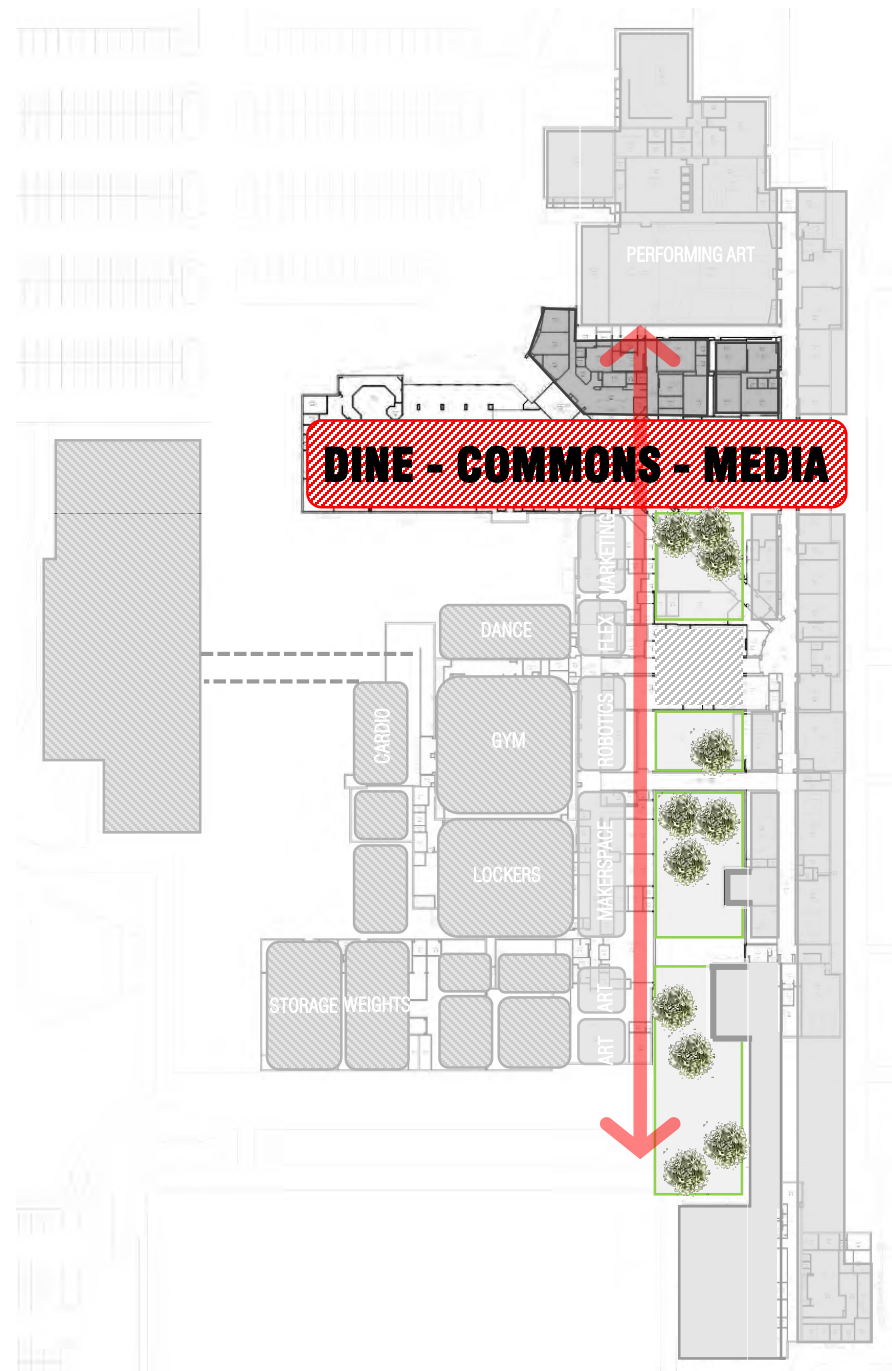
Wellness / Athletic Programs

- Gymnasiums
- Cardio
- Dance
- Weights
- Pre-med
- Culinary
- Health classrooms
- Athletic/PE locker rooms
- Natatorium

3

OPEN MEDIA

a resource that expands upon those in the innovation district to the south, and extends the flexibility and function of the adjacent dining and commons areas

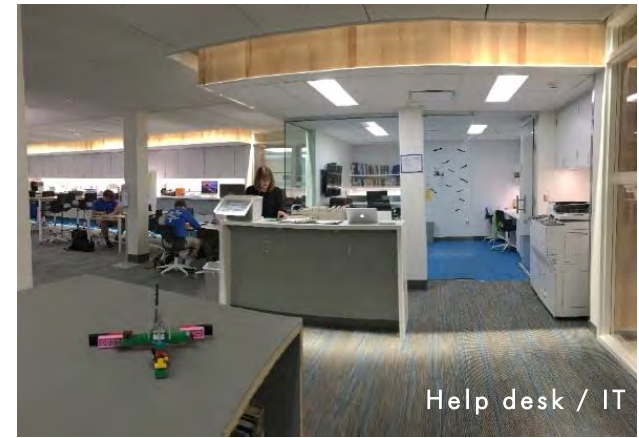




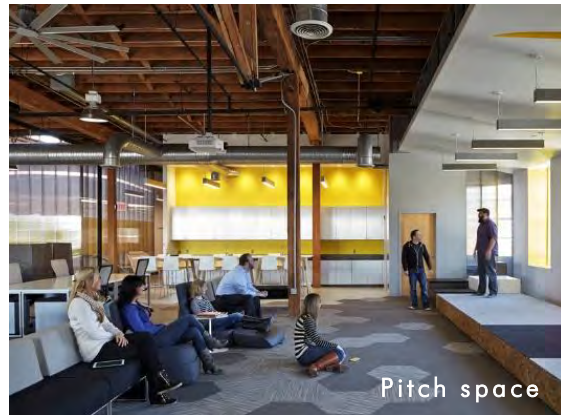
Quiet study



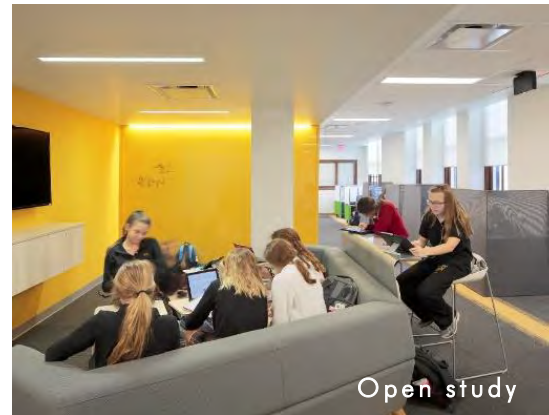
Success center



Help desk / IT



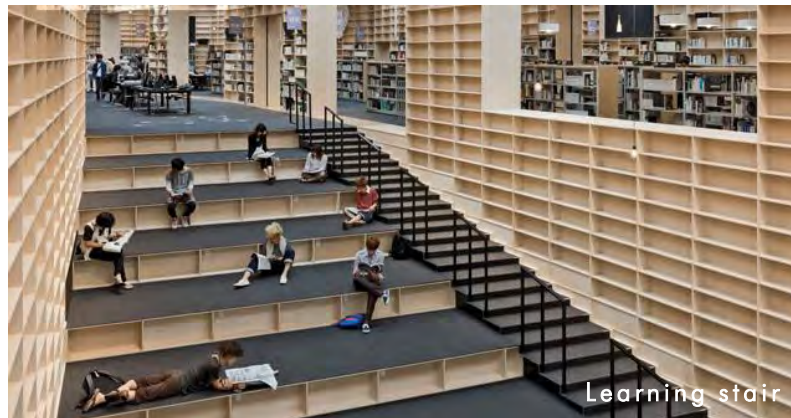
Pitch space



Open study



Genius bar



Learning stair

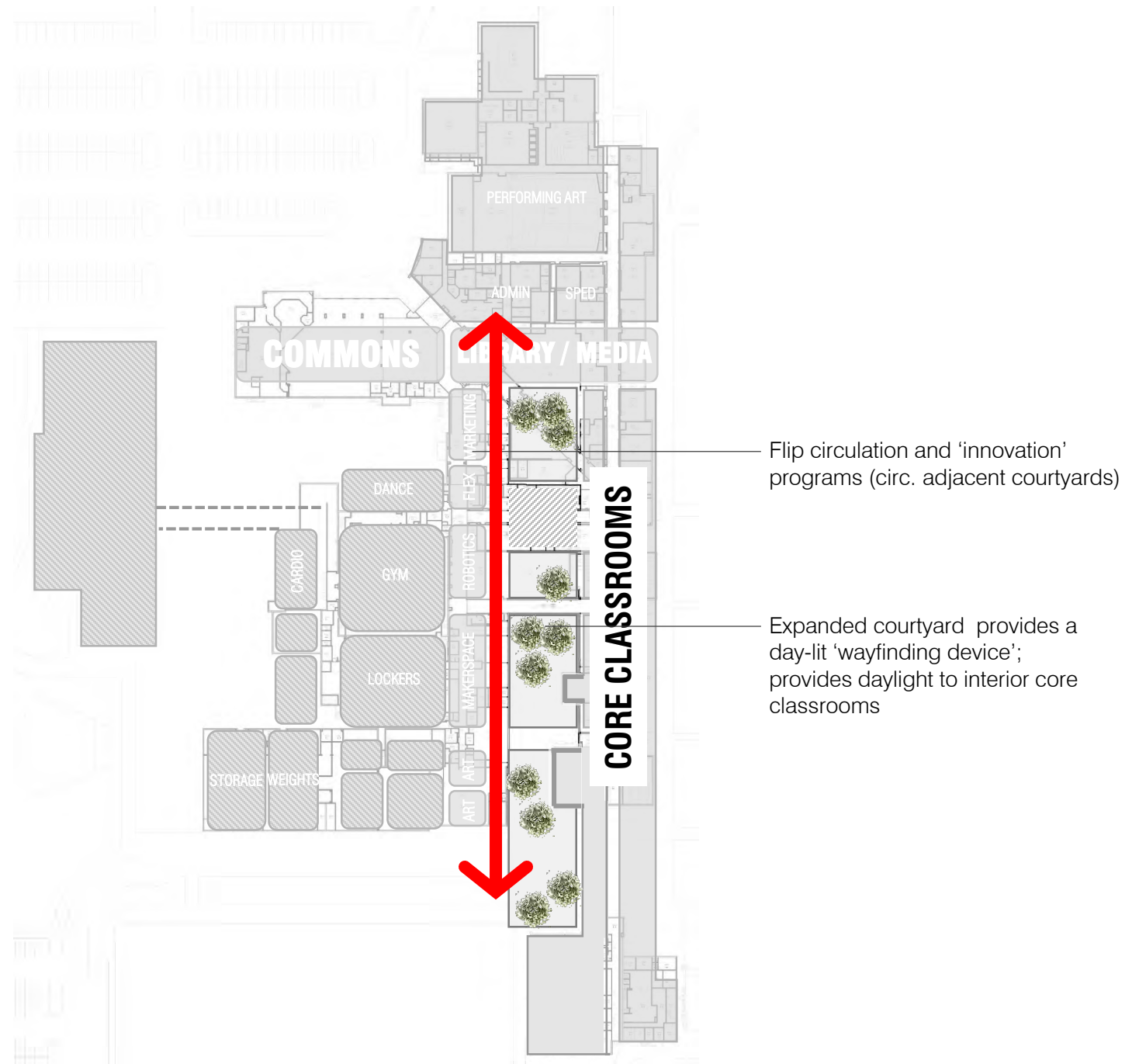


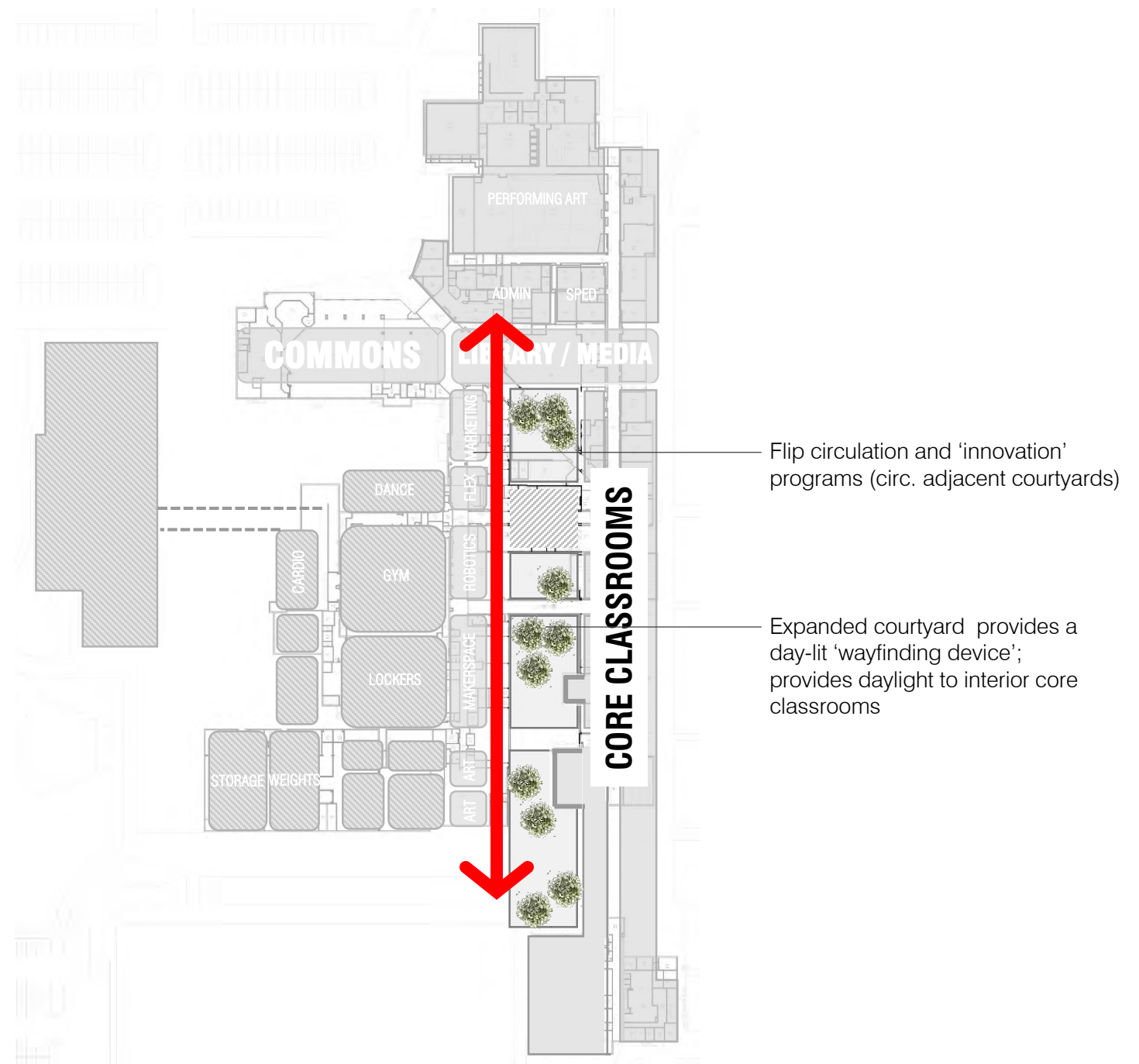
Project center

4

EXPANDED COURTYARDS

serving a new circulation
spine, providing outdoor
learning opportunities and
daylight to ALL core
classrooms

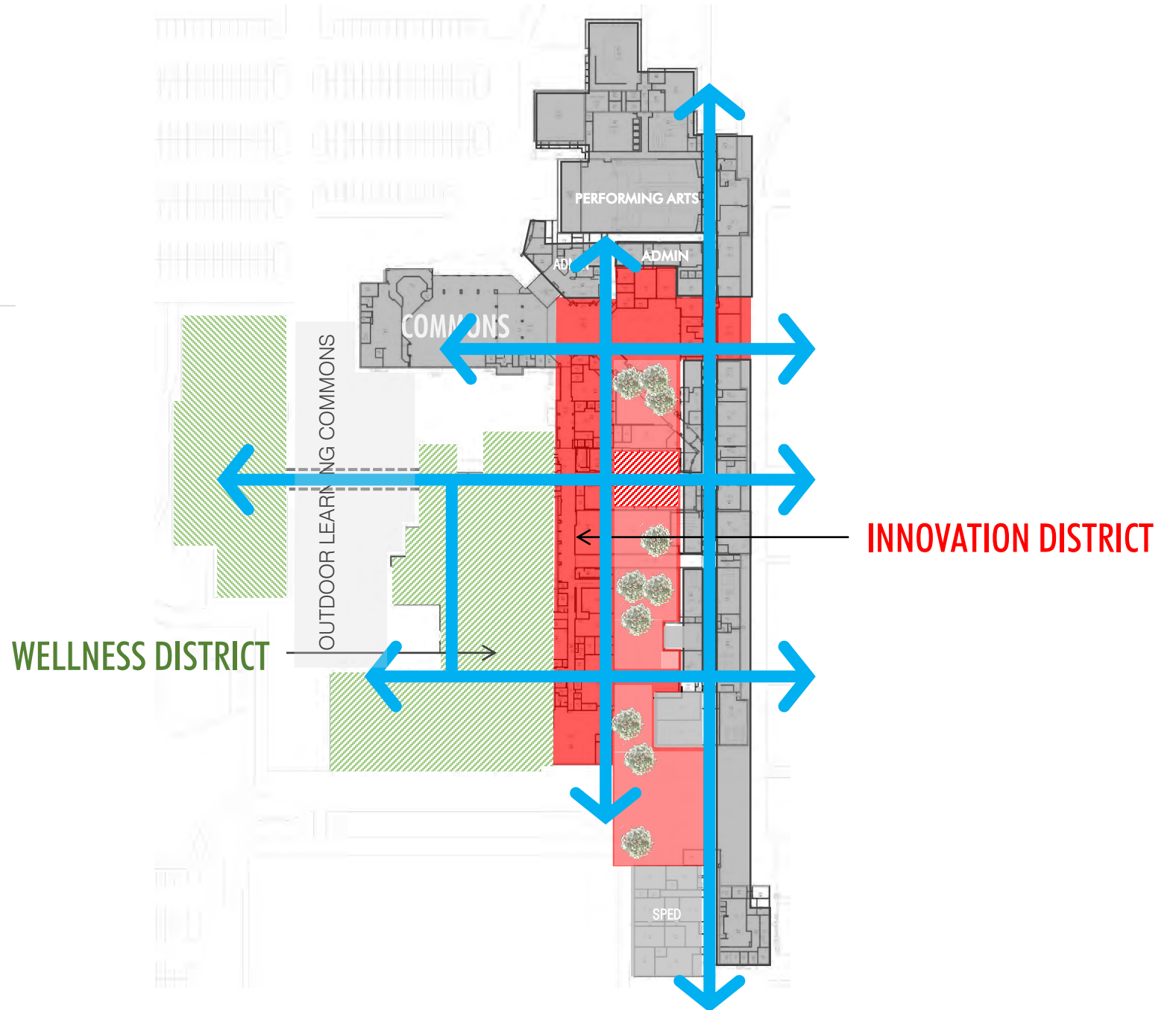




5

CLEAR WAYFINDING

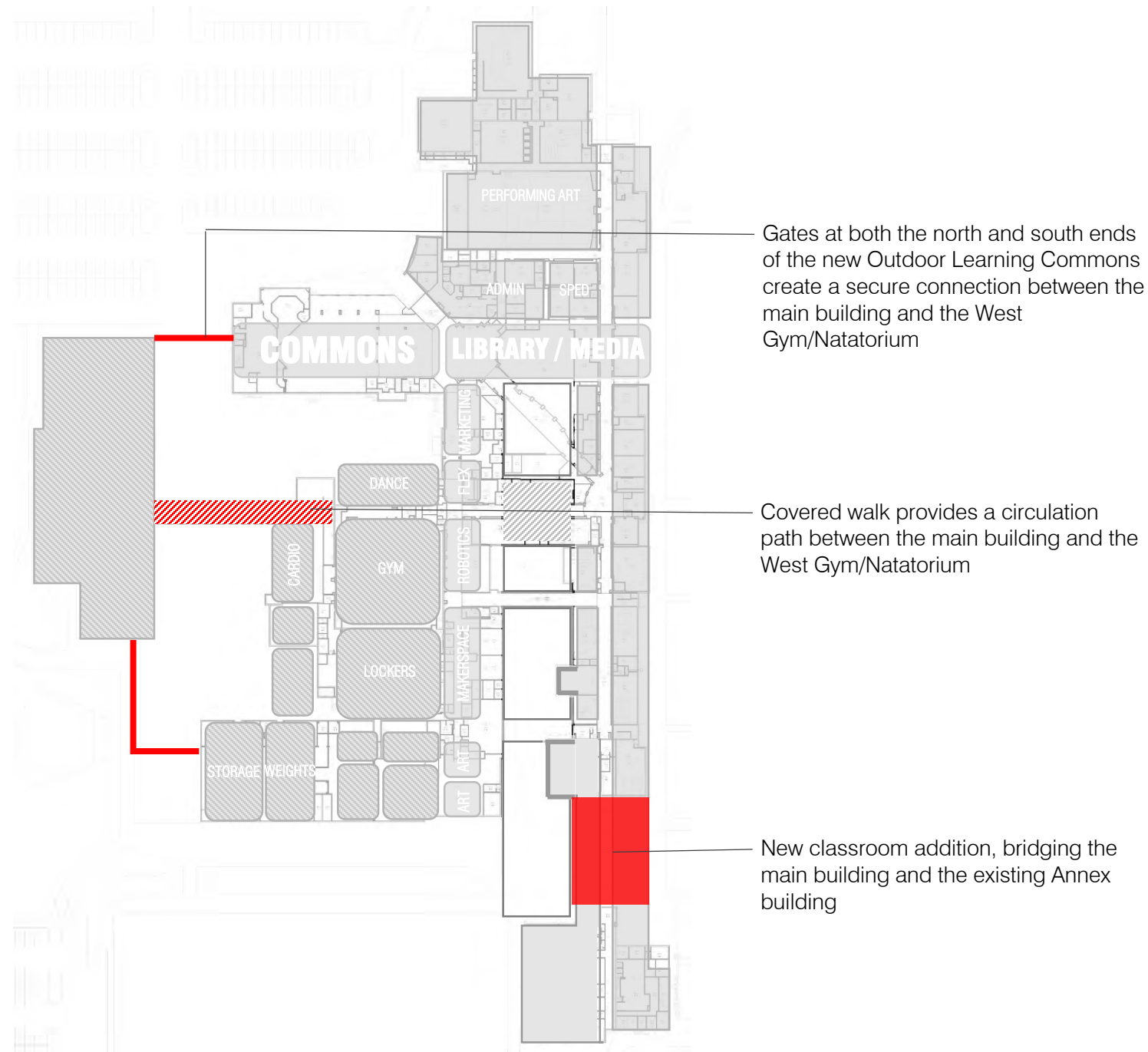
a new, intuitive
wayfinding pattern,
unifying the (12)
buildings that
compose Lawrence
High School



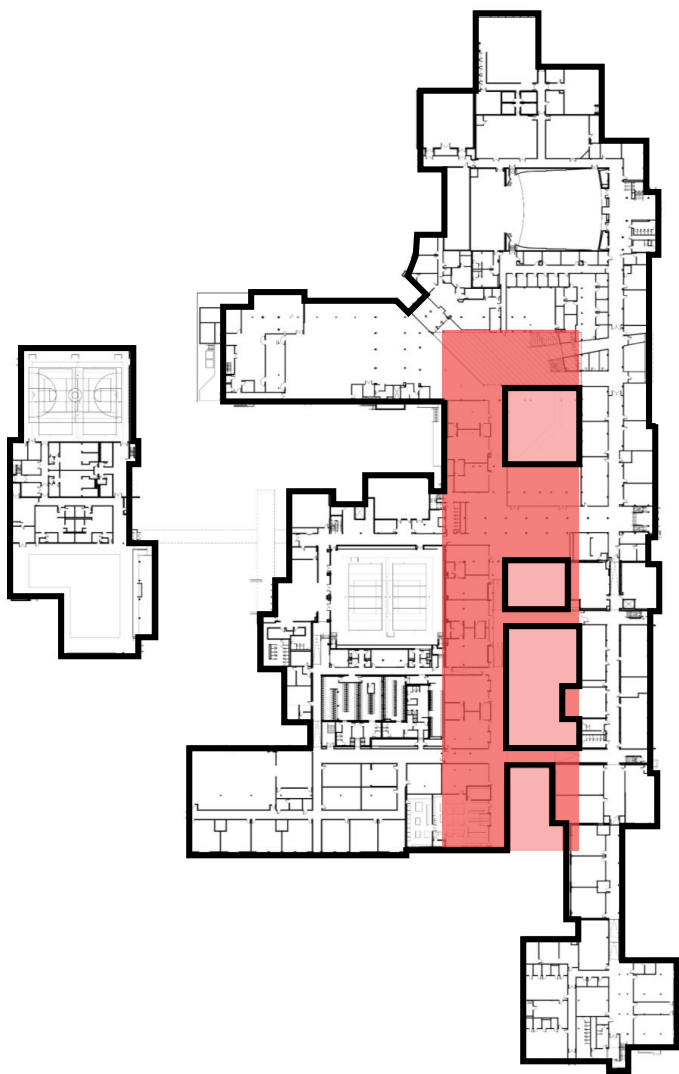
6

ONE CAMPUS

strategic additions will
create a single
campus, with
controlled access
during school hours



CONCEPT DEVELOPMENT



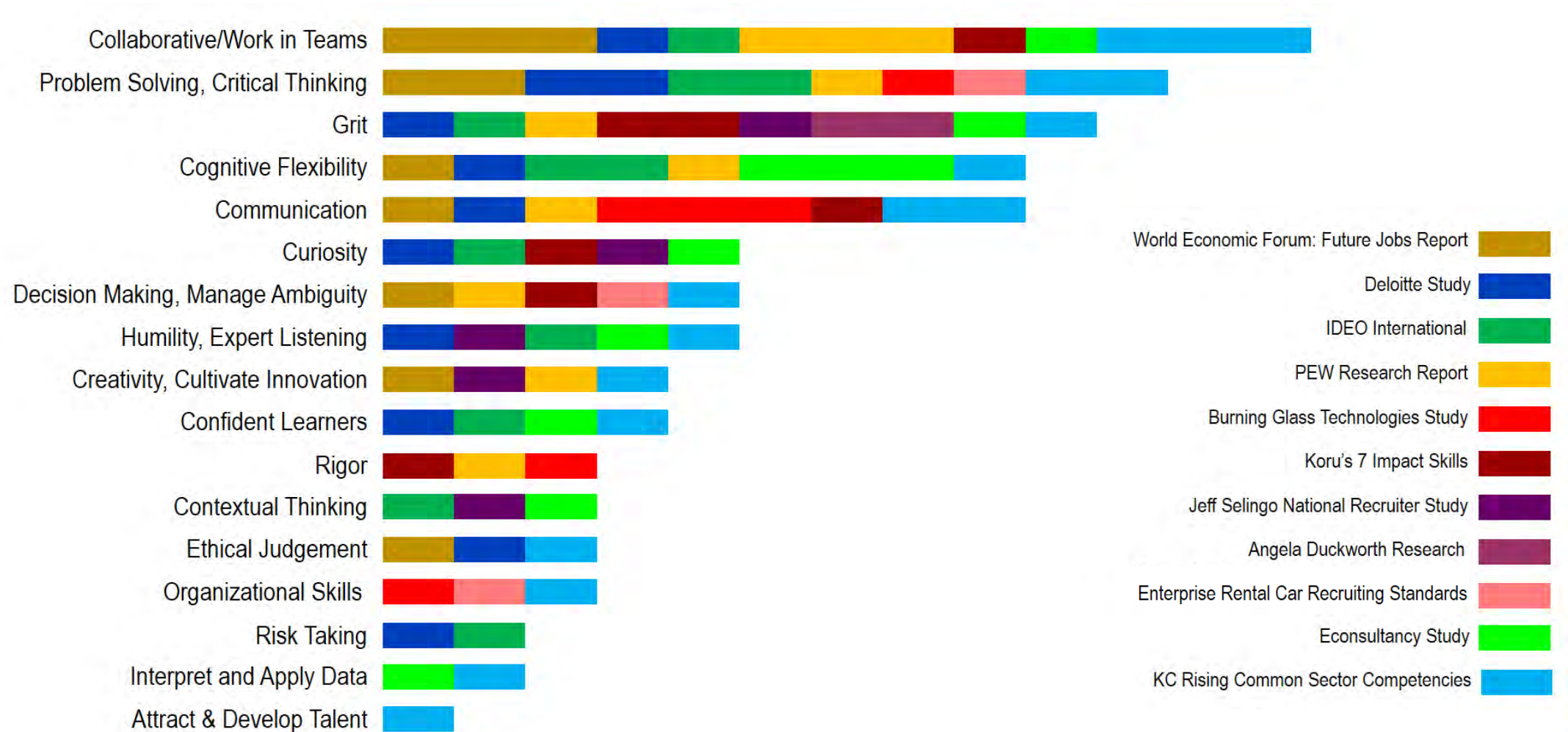
Innovation District

65%

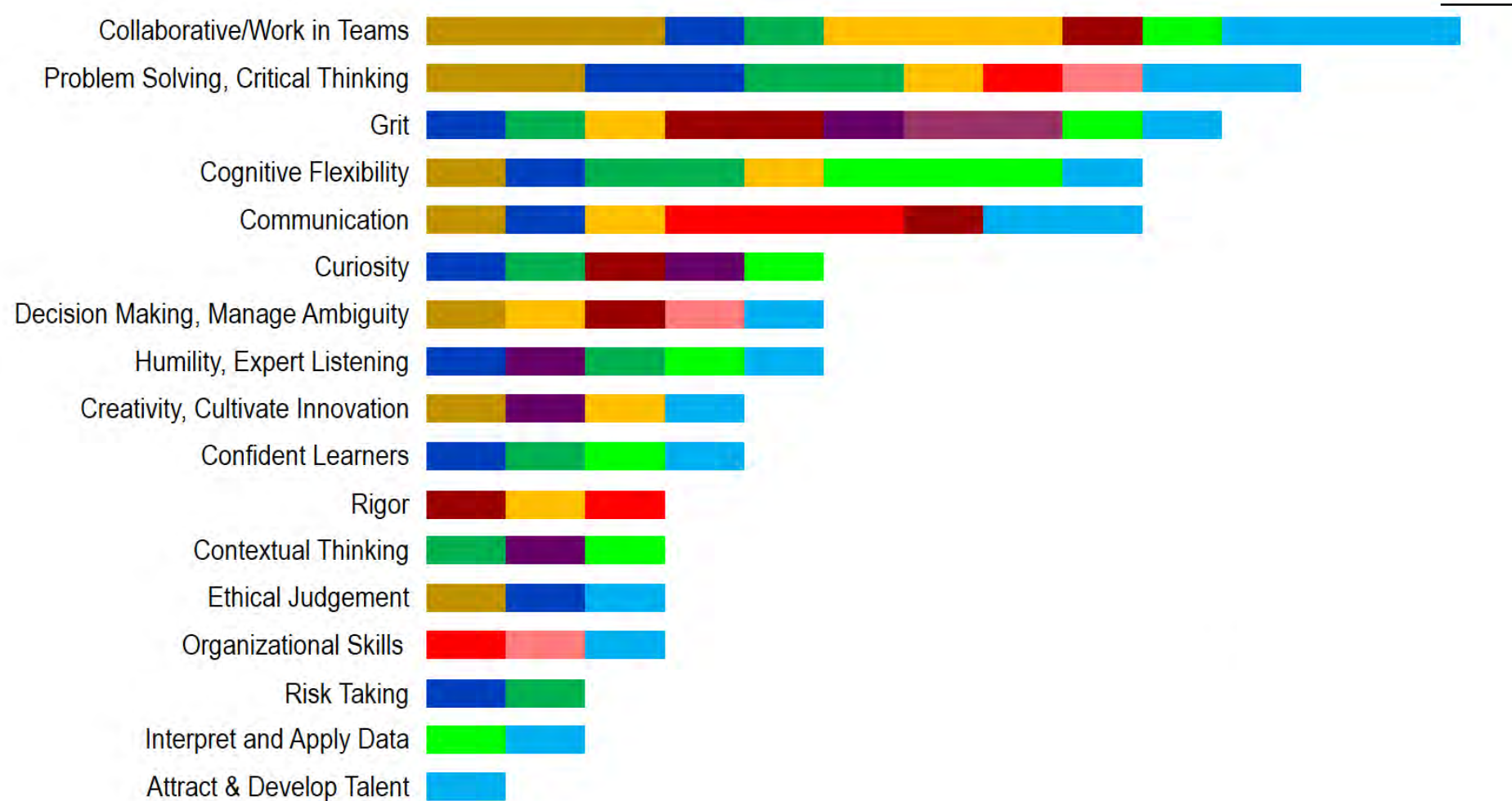
of today's grade school students will
end up in jobs that don't exist today.

Source: US Department of Labor,
Future Work Trends and Challenges for Work in the 21st Century

WHAT EMPLOYERS ARE SEEKING IN NEW HIRES

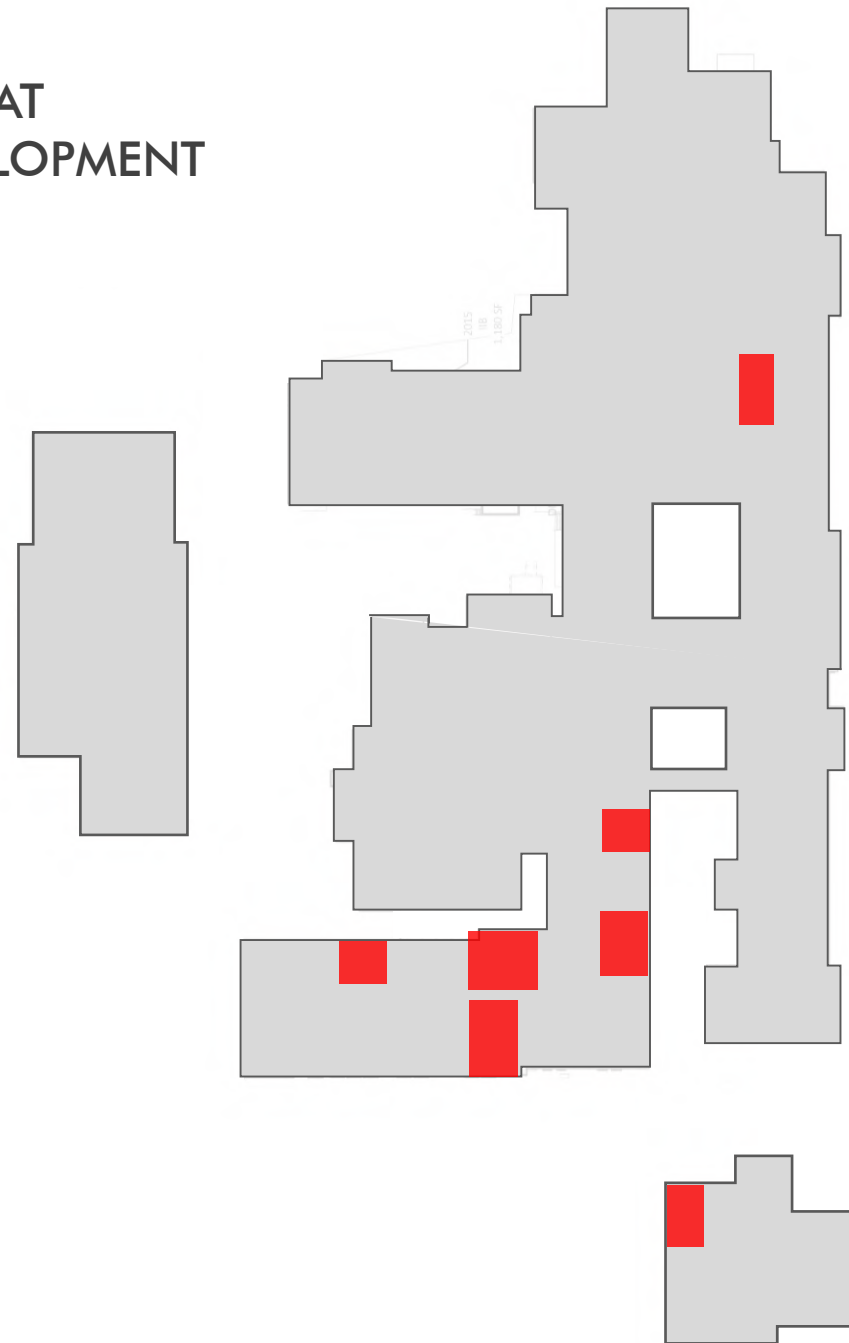


WHAT EMPLOYERS ARE SEEKING IN NEW HIRES



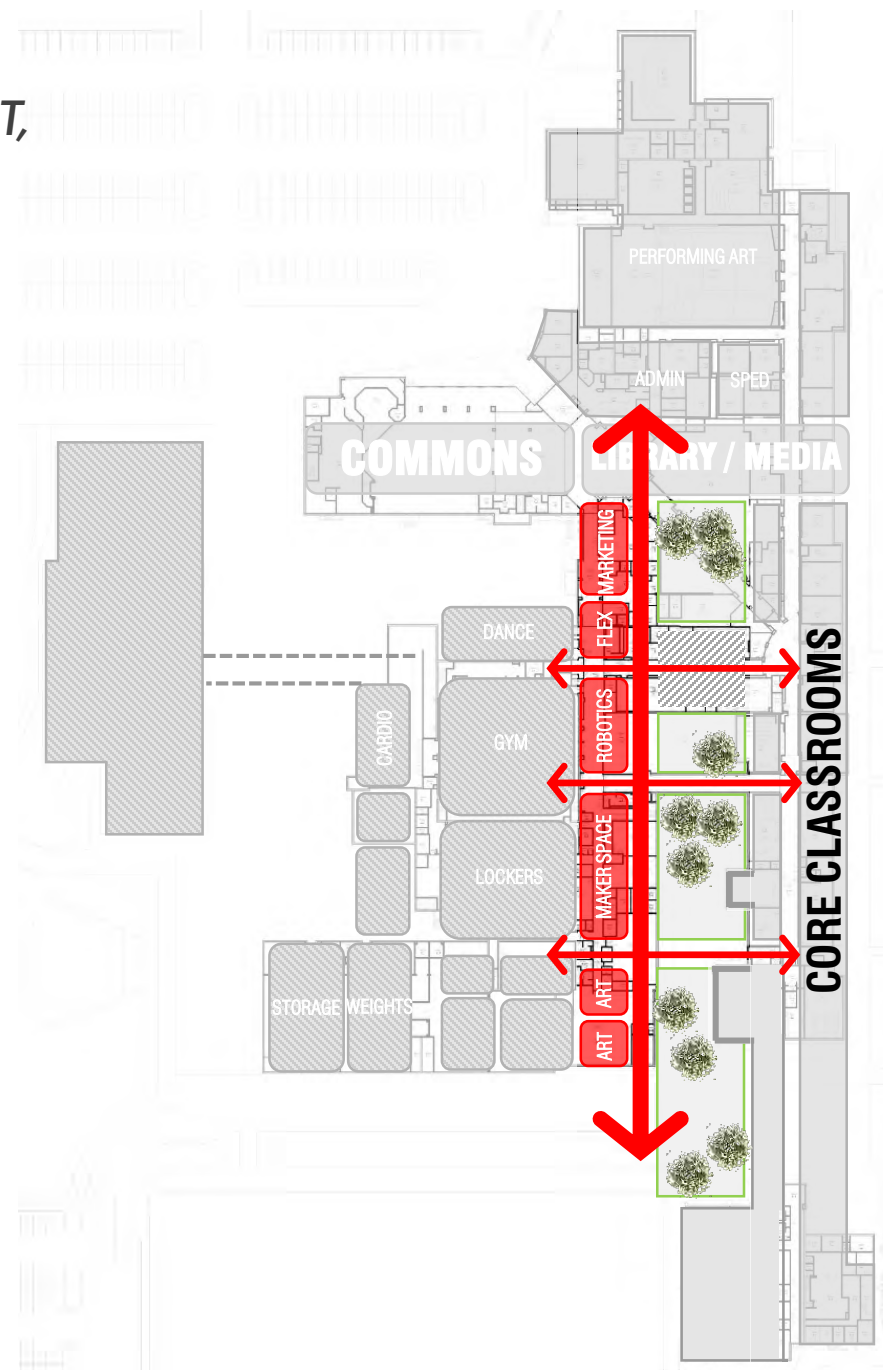
**Soft Skills /
Transversal
Skills**

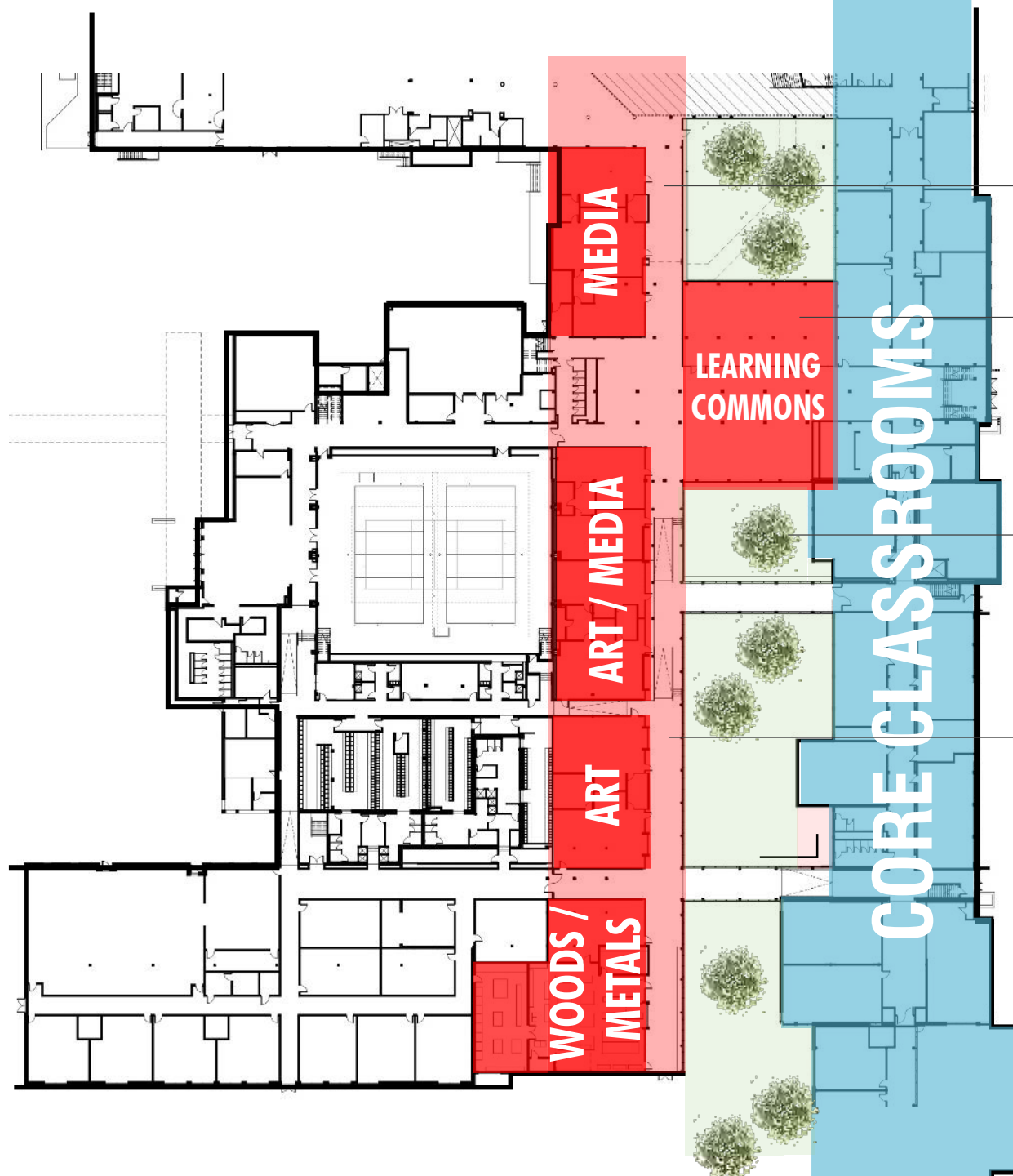
EXISTING HANDS-ON PROGRAMS THAT
EMPHASIZE TRANSVERSAL SKILL DEVELOPMENT



Innovation District

NEW, CENTRAL INNOVATION DISTRICT,
SERVING ALL STUDENTS AND CORE
CLASSROOMS



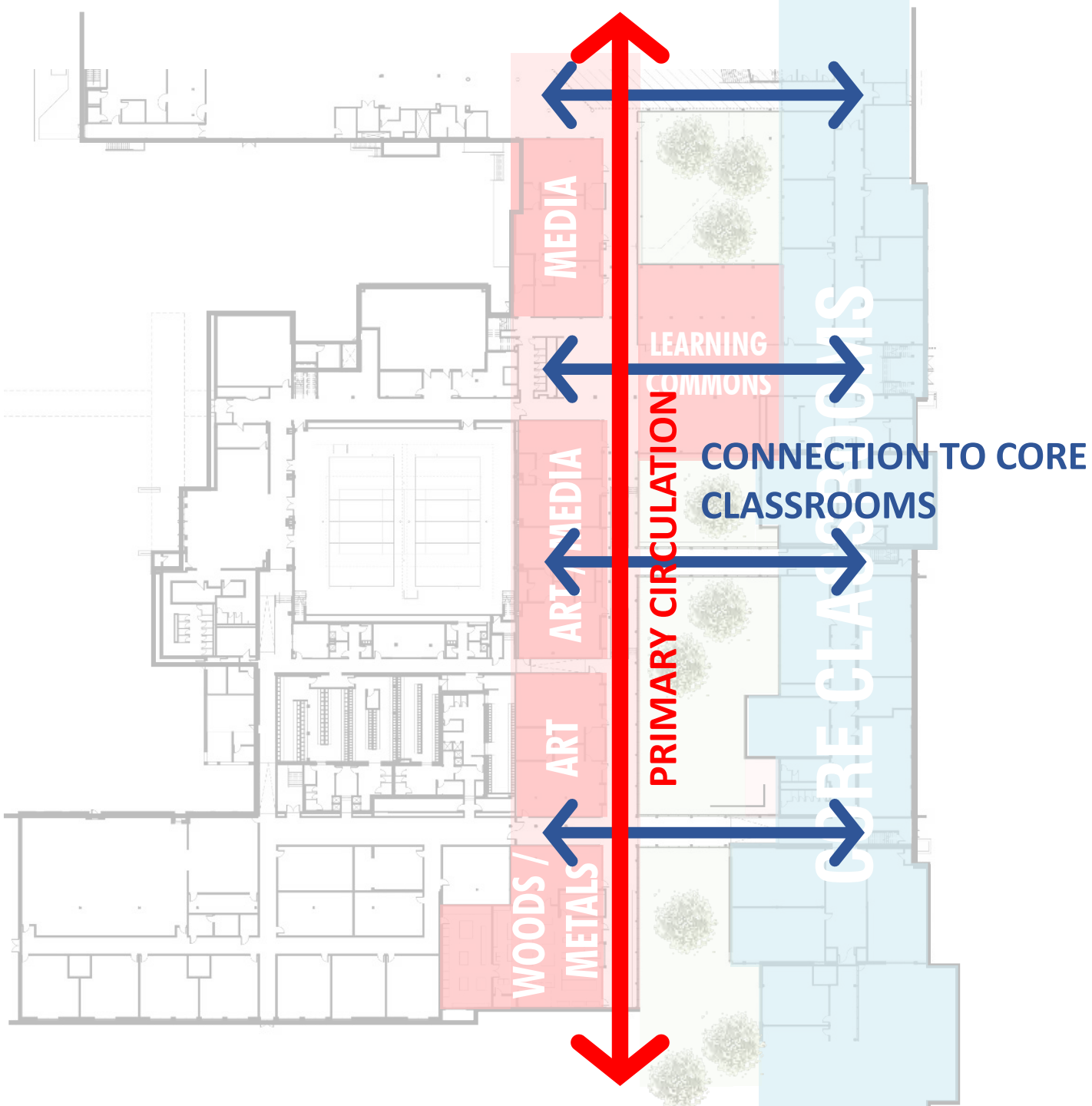
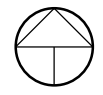


Flip circulation to create single-loaded corridor serving as a new circulation 'spine'

Learning Commons - where classrooms and innovation programs meet

Expanded courtyards provide daylight to ALL core and innovation programs

INNOVATION CORRIDOR...
a wide 'commons' integrates casual seating and collaboration space



1. **INTEGRATE ARTS WITH STEM**-related classrooms and labs – promote creativity and innovation across programs.
2. **REPLICATE THE WORKPLACE** wherever and however we can, especially in professional CTE spaces.
3. **PROMOTE OPPORTUNITIES FOR CONNECTIONS ACROSS DISCIPLINES** and subject areas – physically and/or visually. Create more opportunities for integrated teaching and learning experiences and build the overall strength of the campus ecosystem.
4. **CREATE A “MAKER ETHOS”** throughout the school. Every learning space should support project- and team-based activities in addition to other more conventional styles of learning. The Media Center should be a role model for this ethos.
5. **TREAT AND SUPPORT FACULTY AS PROFESSIONALS.** Support them as a faculty community to further collaborate and share ideas across departments, with cool spaces that inspire them not just as teachers but as creatives.
6. **CATER TO AUTHENTIC AUDIENCES.** Create forums for presenting to authentic audiences, both physical spaces (pitch spaces) and virtual forums.
7. **ENGAGE COMMUNITY PARTNERS**, both from the business community and arts community – embed them as much as possible, with touch-down spaces and collaborative teaching/work spaces.
8. **CREATE THE VIBE OF A VENTURE ACCELERATOR.** Create a campus that serves as the hub of entrepreneurial thinking.



Large Studio
Innovation District



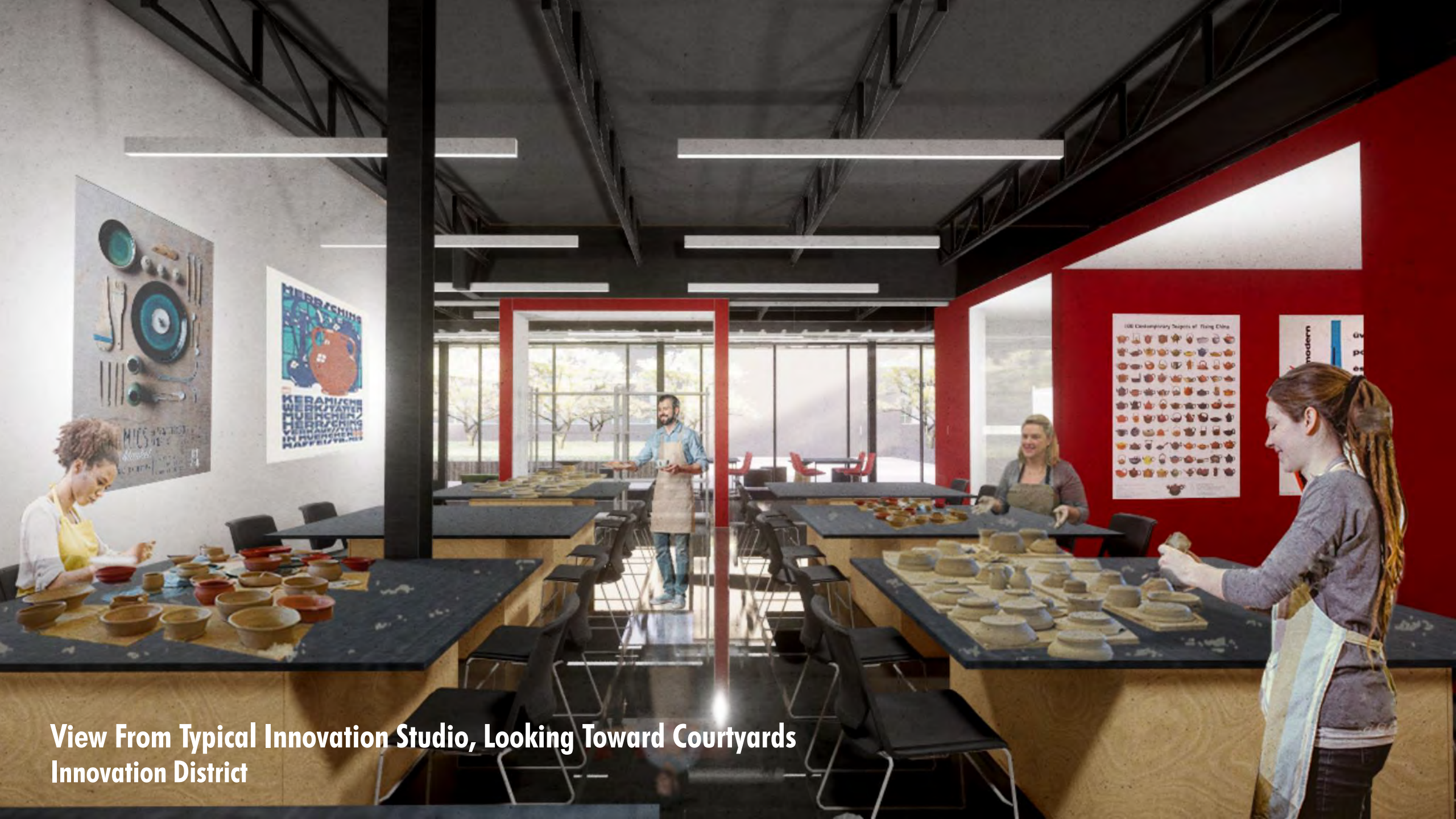
Small Studios
Innovation District



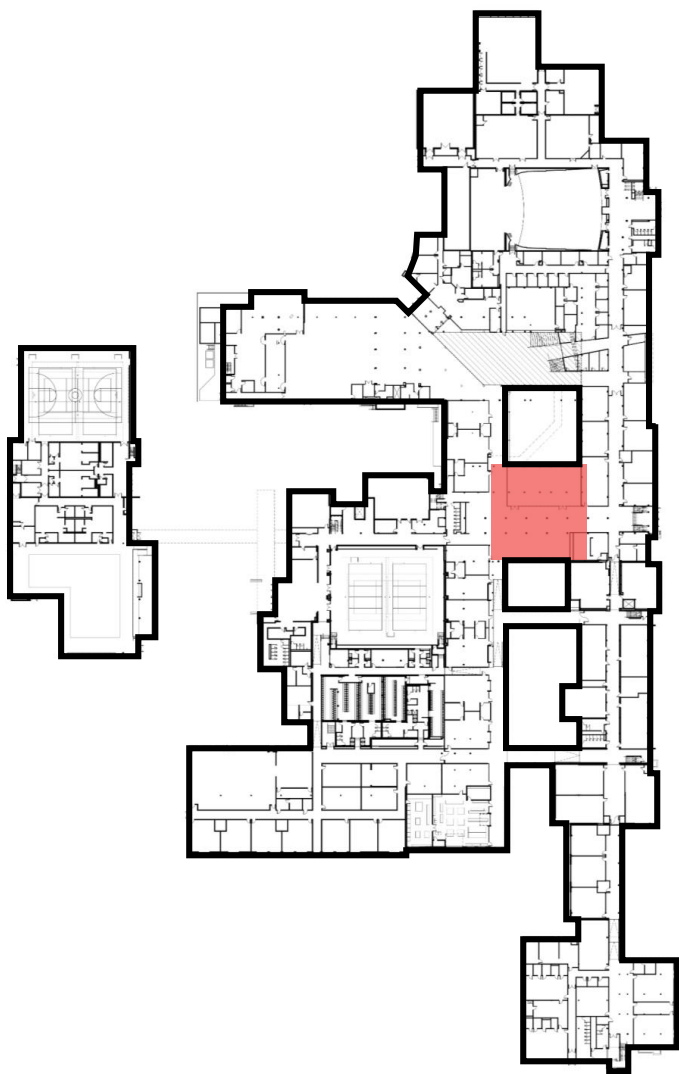
Career & Tech Education (CTE) Shop
Innovation District



View Looking South
Innovation District



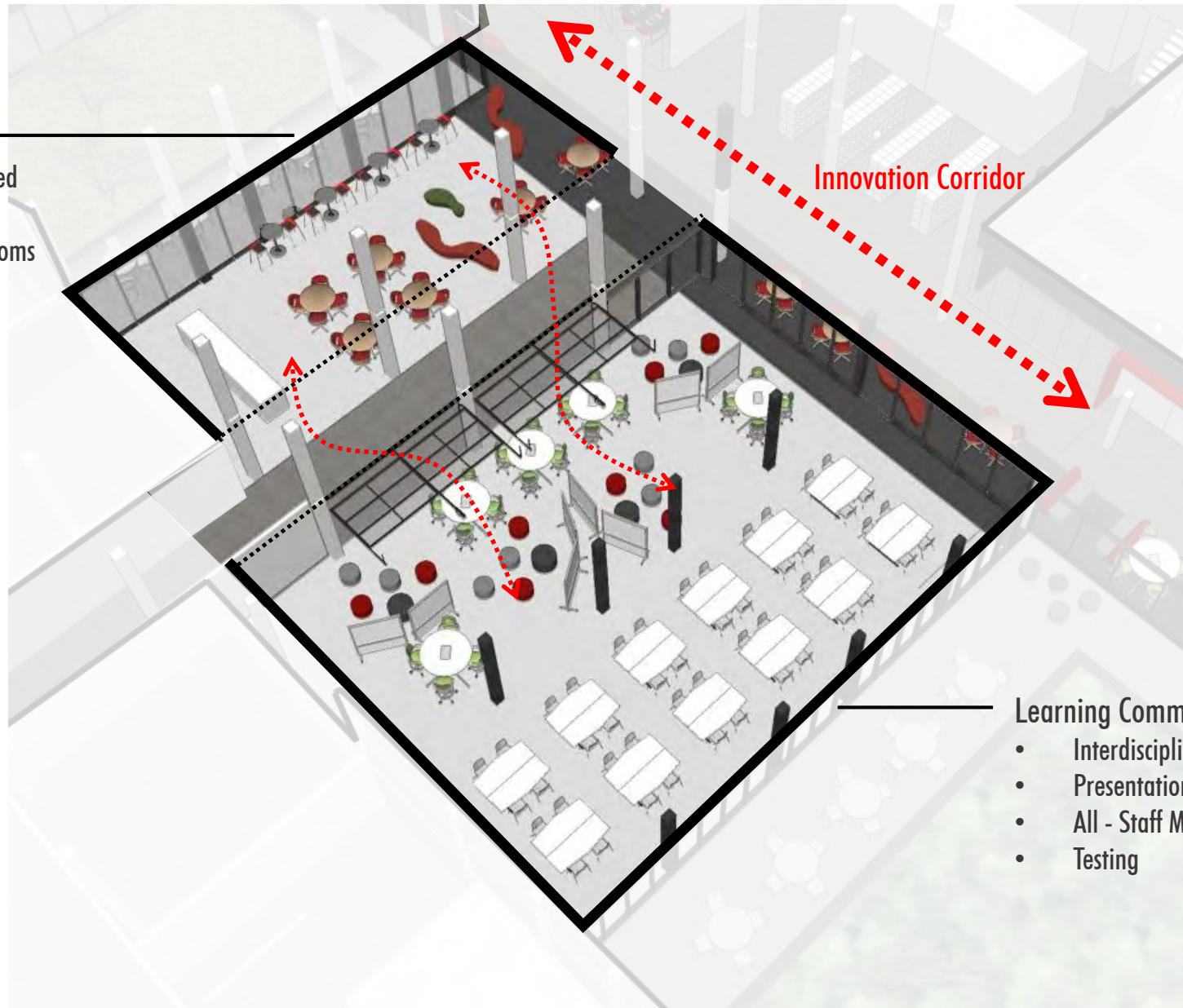
**View From Typical Innovation Studio, Looking Toward Courtyards
Innovation District**



Learning Commons

Project Center

- Self-Directed Project-Based Learning
- Resource for Core Classrooms



Learning Commons

- Interdisciplinary Learning
- Presentations to Authentic Audiences
- All - Staff Meetings
- Testing

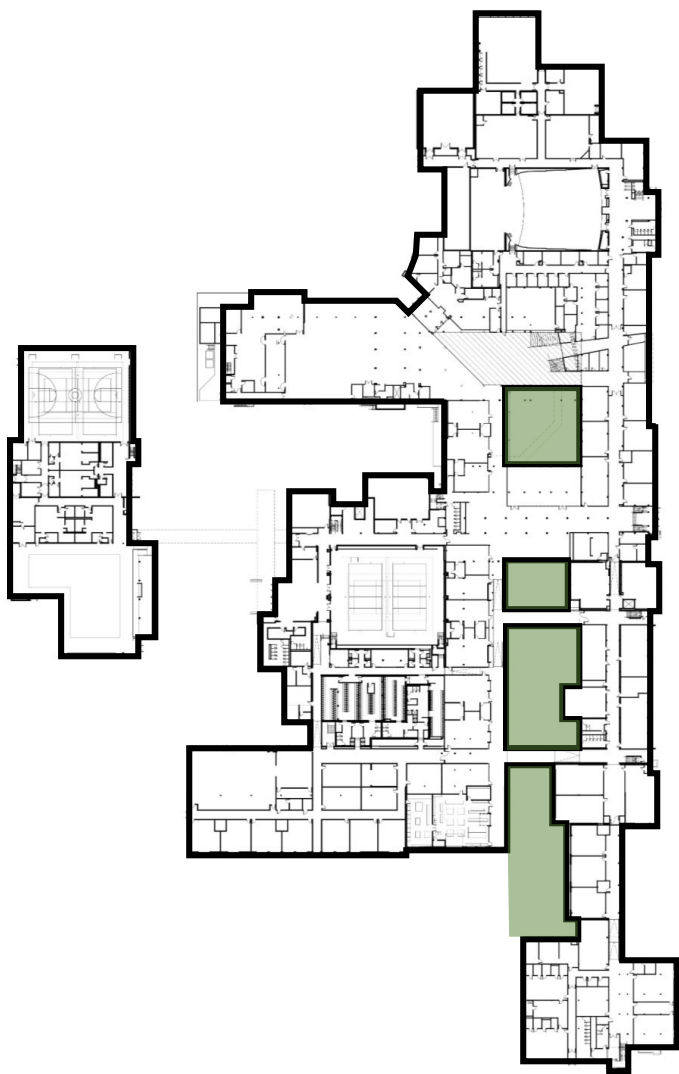
Learning Commons



View Toward Learning Commons & Project Center
Learning Commons



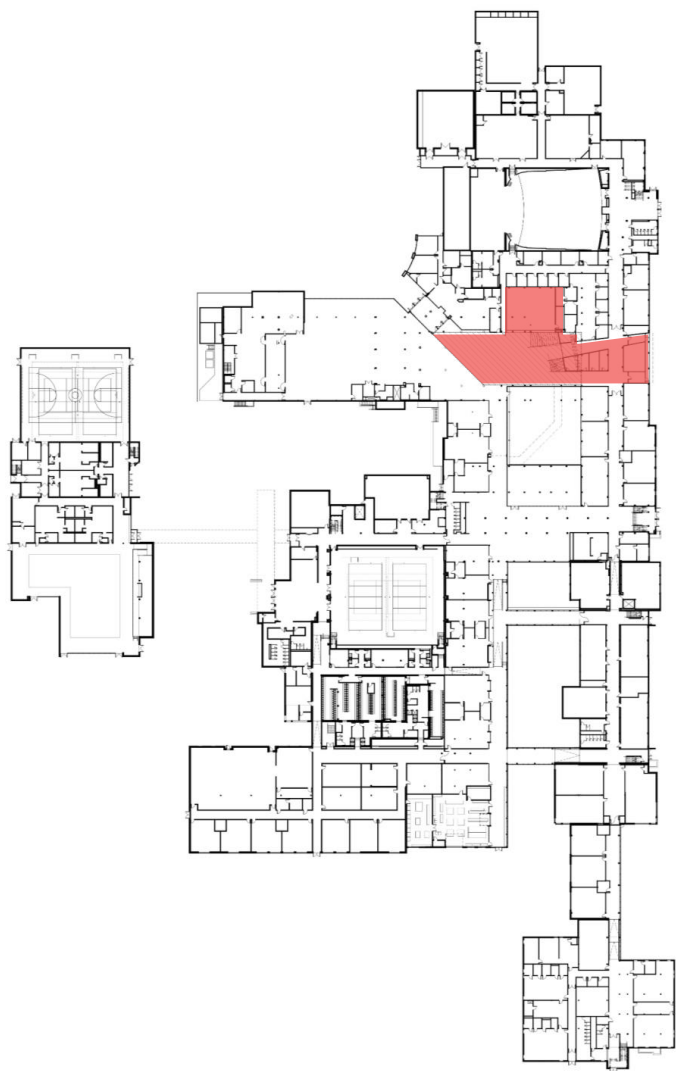
**View Learning Commons & Project Center
Learning Commons**



Extended Courtyards



View Looking South
Extended Courtyards

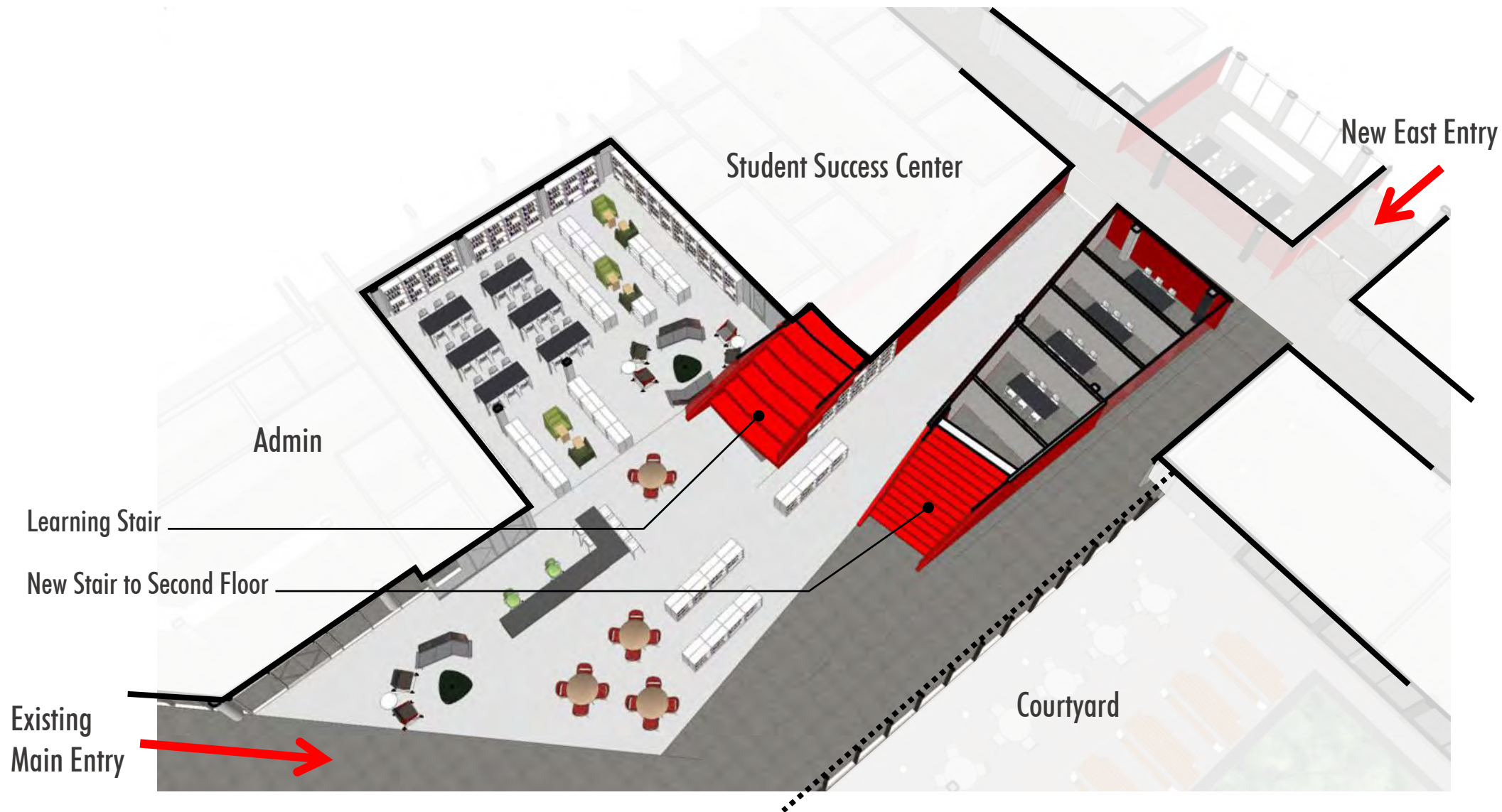


Media Commons

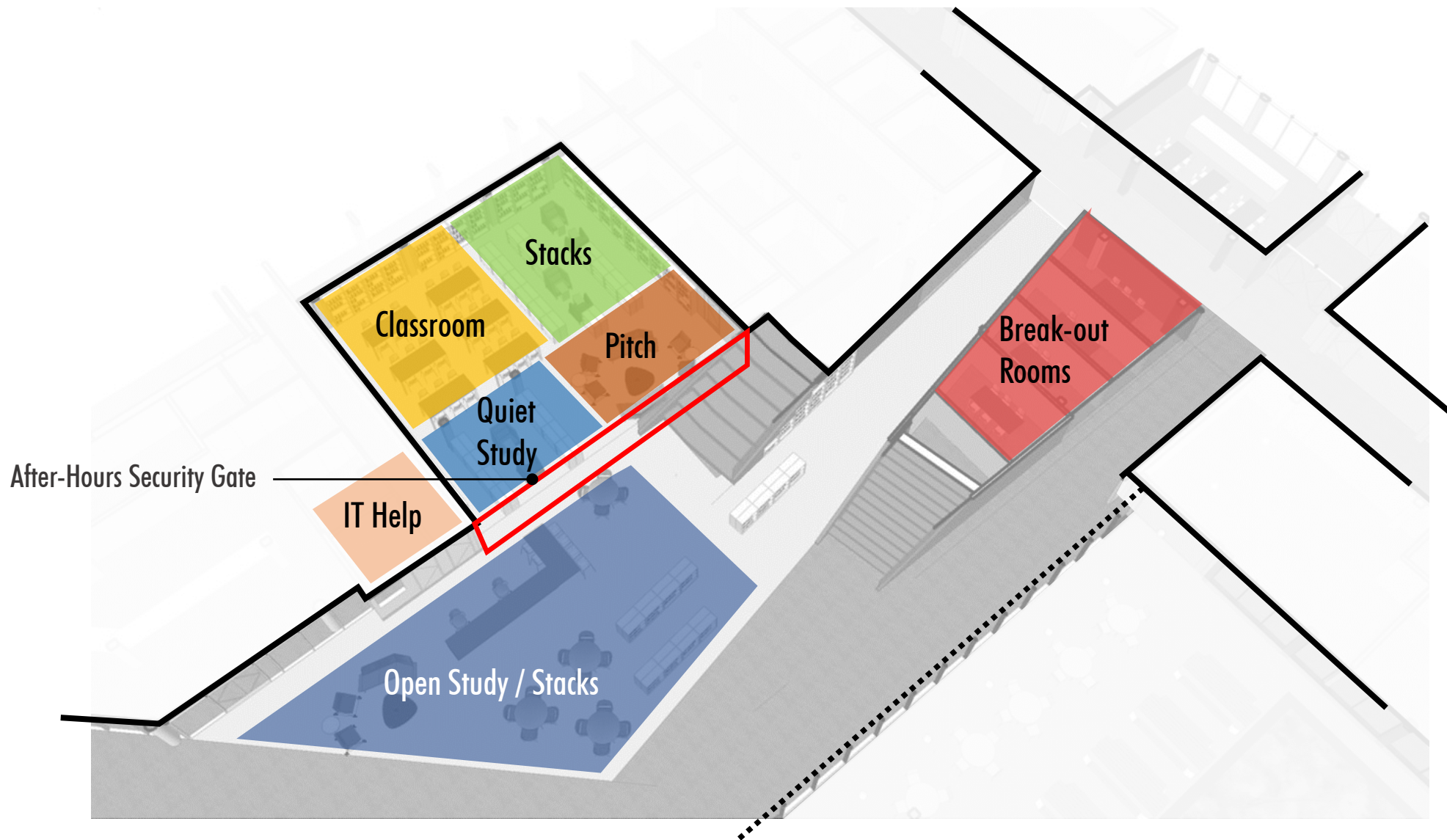
An architectural floor plan of a building. A central horizontal corridor and the rooms immediately adjacent to it are highlighted in a gradient of red and orange. The rest of the building, including rooms at the top, bottom, and far left, is shown in light gray. The highlighted area contains various furniture icons like tables, chairs, and sofas. The text 'CONNECT COMMONS, MEDIA, NEW EAST ENTRY' is overlaid in white on the red portion of the highlighted area.

CONNECT COMMONS, MEDIA, NEW EAST ENTRY

Media Commons



Media Commons

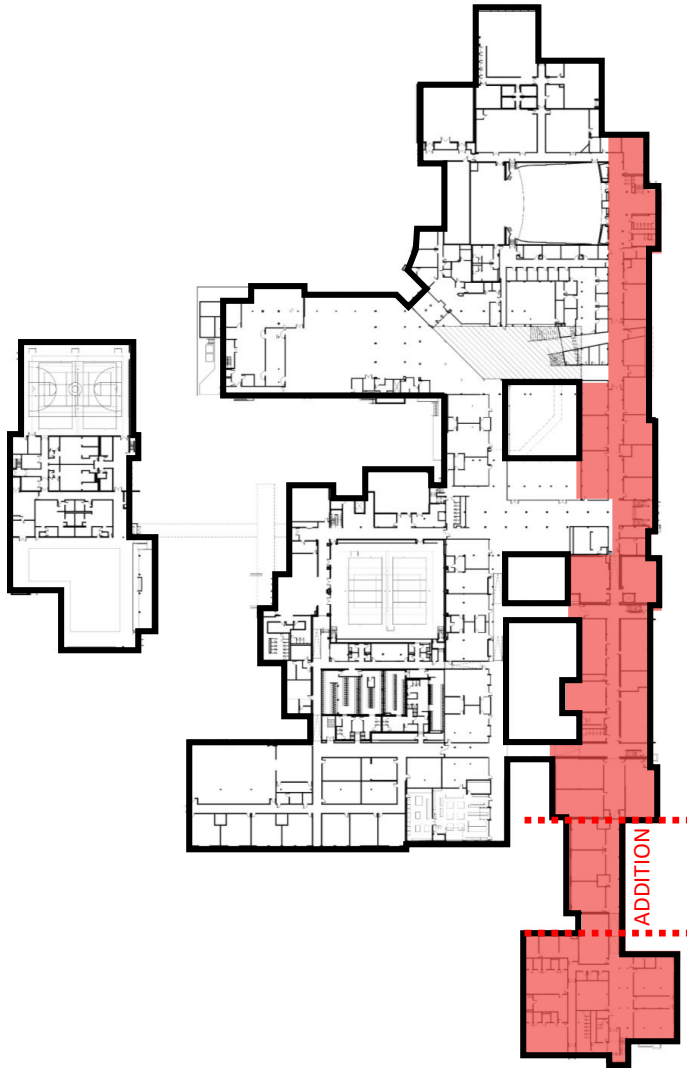




View From Main Entry, Looking East
Media Commons

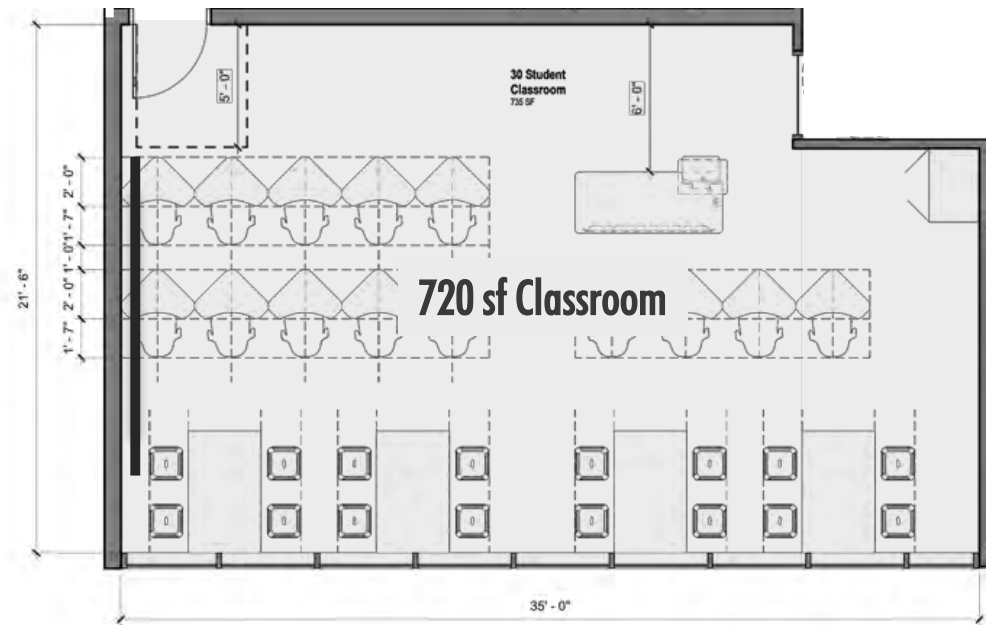


View Looking East
Media Commons



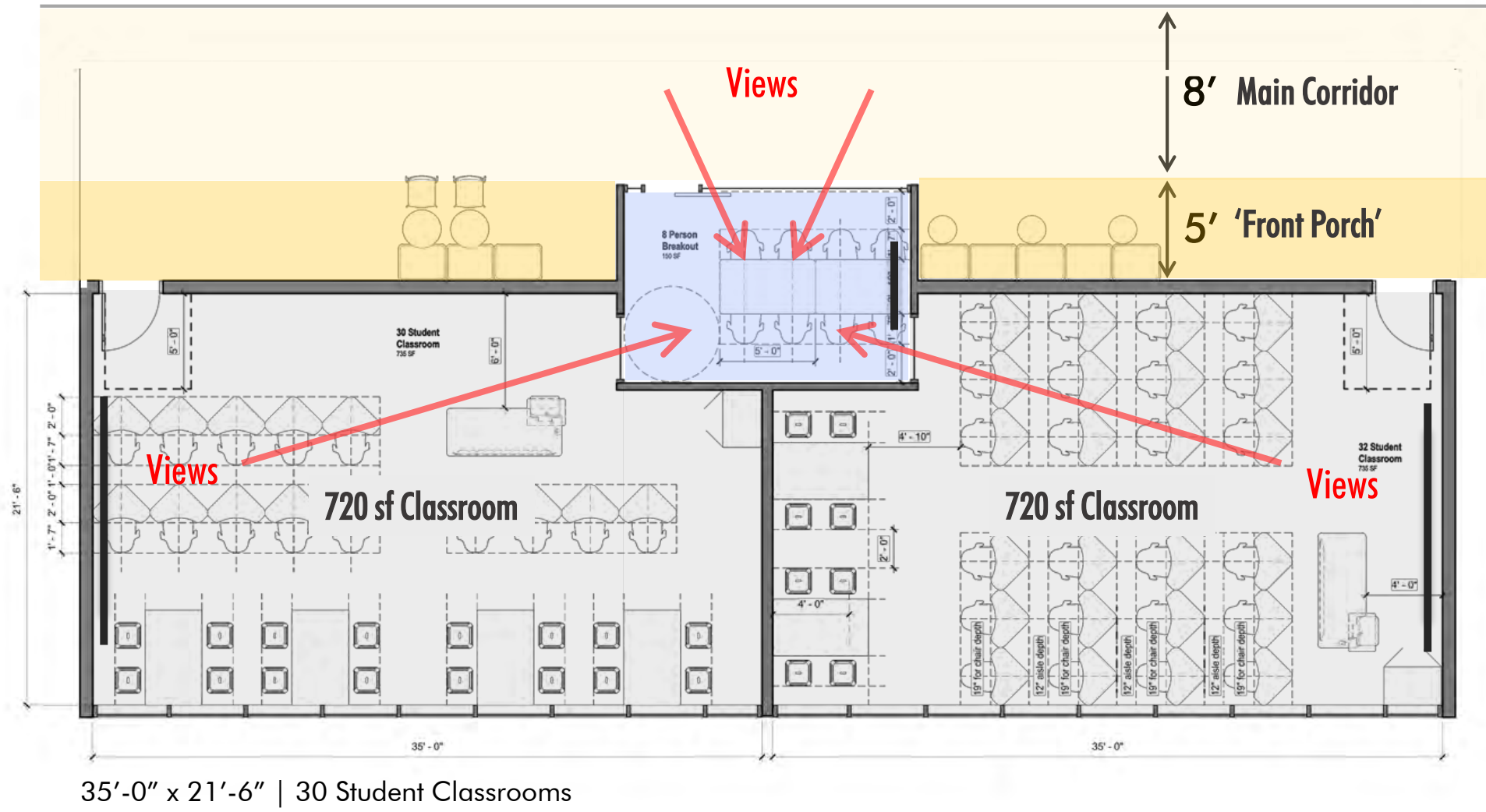
Classrooms / Breakout



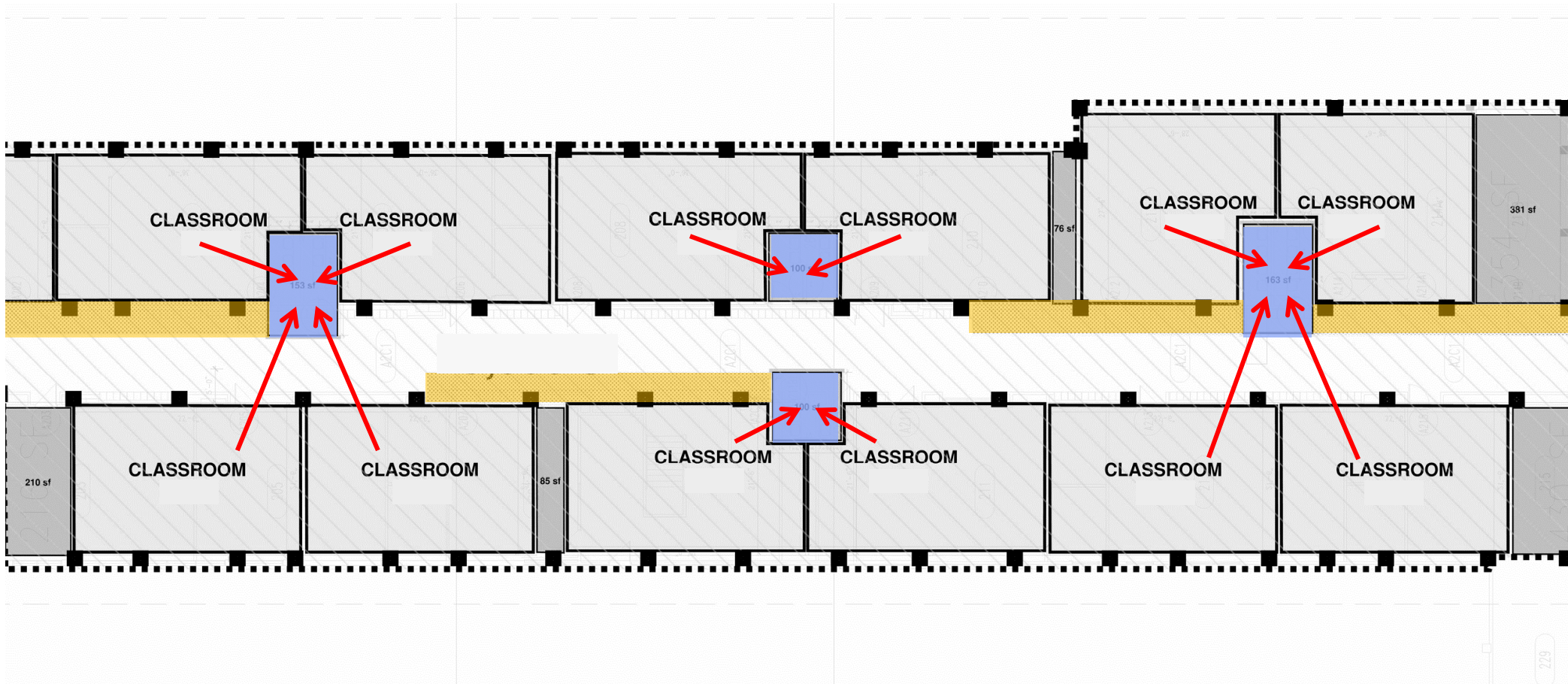


35'-0" x 21'-6" | 30 Student Classrooms

Classrooms / Breakout



Classrooms / Breakout



- Break-Out Room
- 'Front Porch' / Open Break-Out
- ← Access

Classrooms / Breakout



Typical Classroom Corridor
Classrooms / Breakout

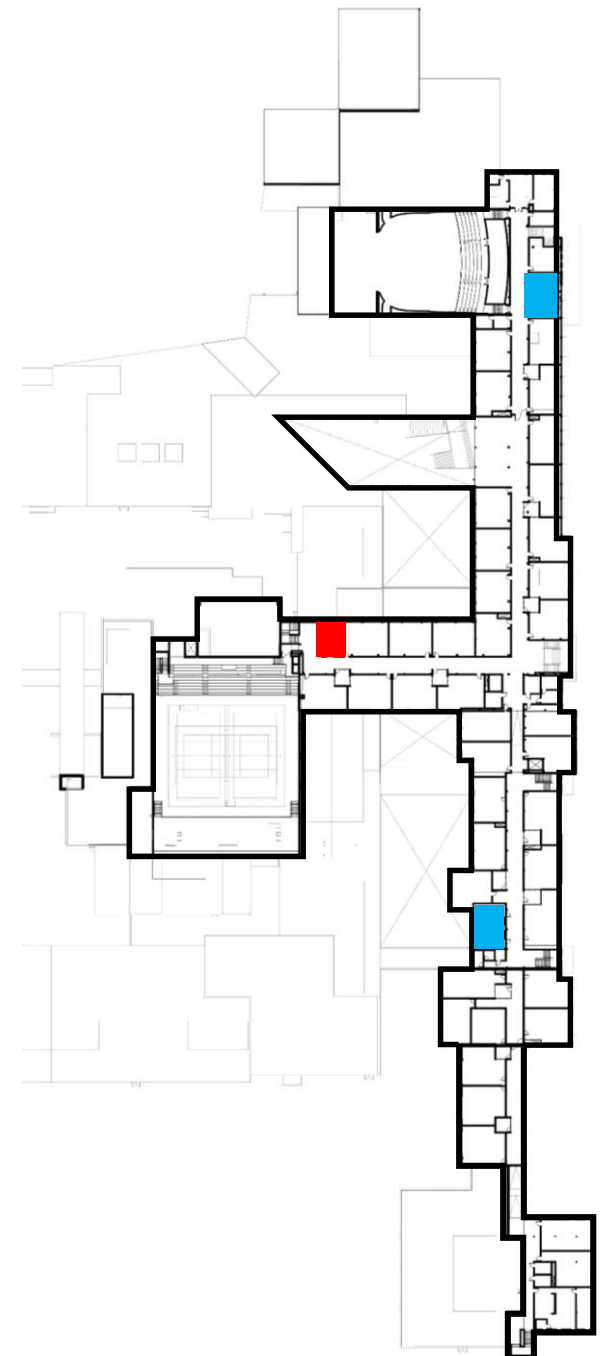
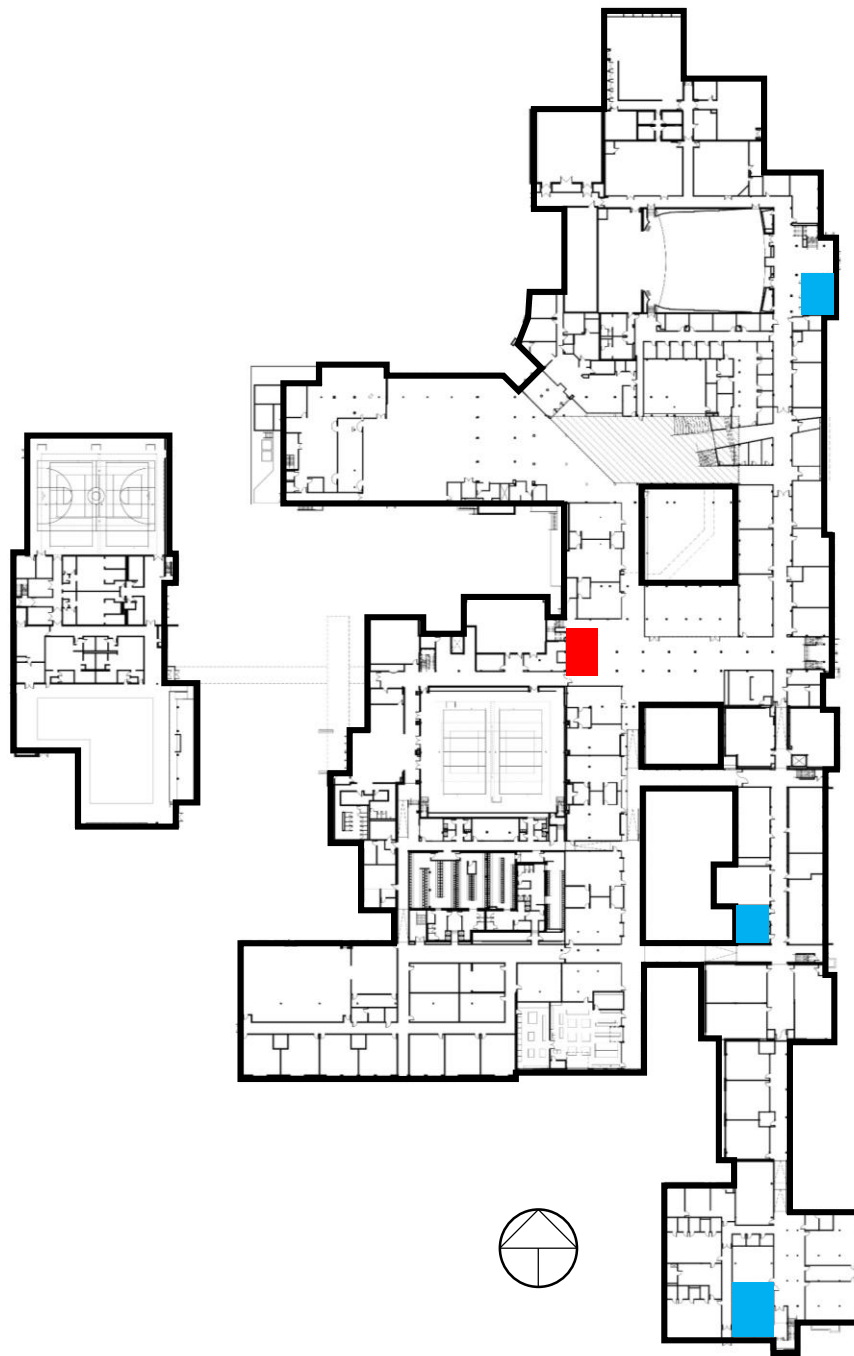


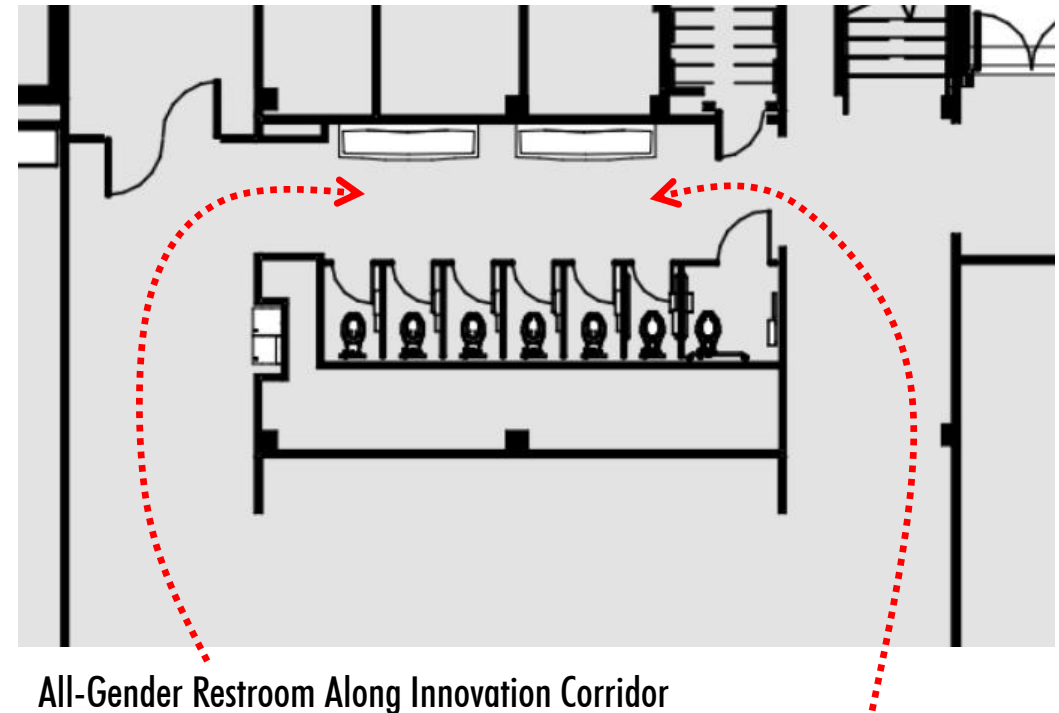
All-Gender Restroom



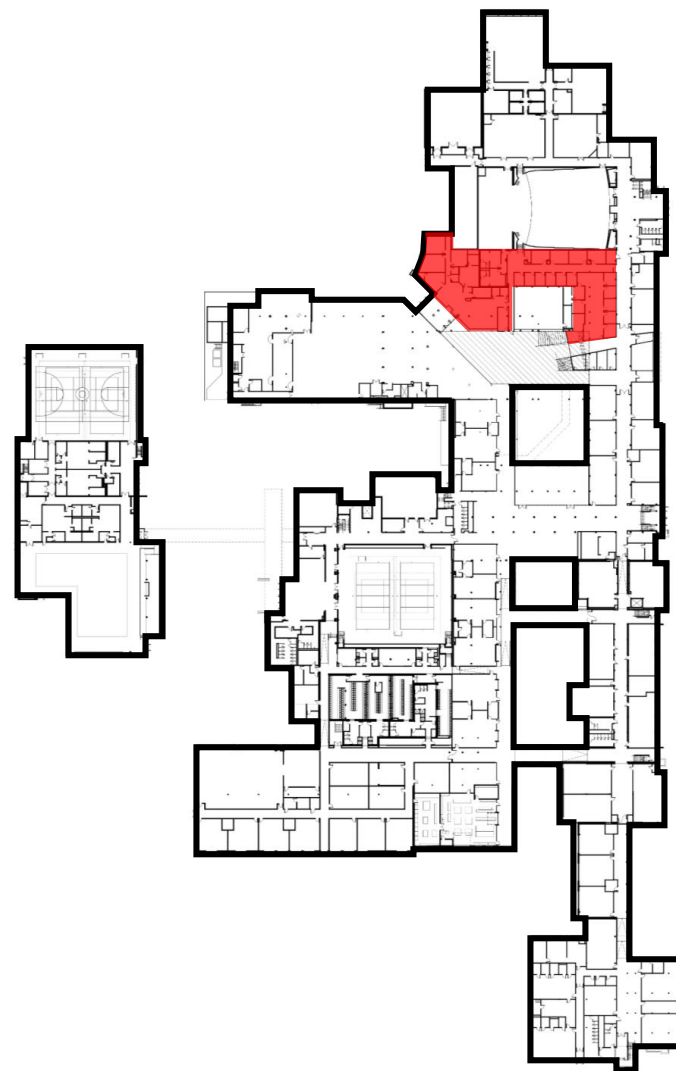
All-Gender-Ready Restroom

All-Gender Facilities

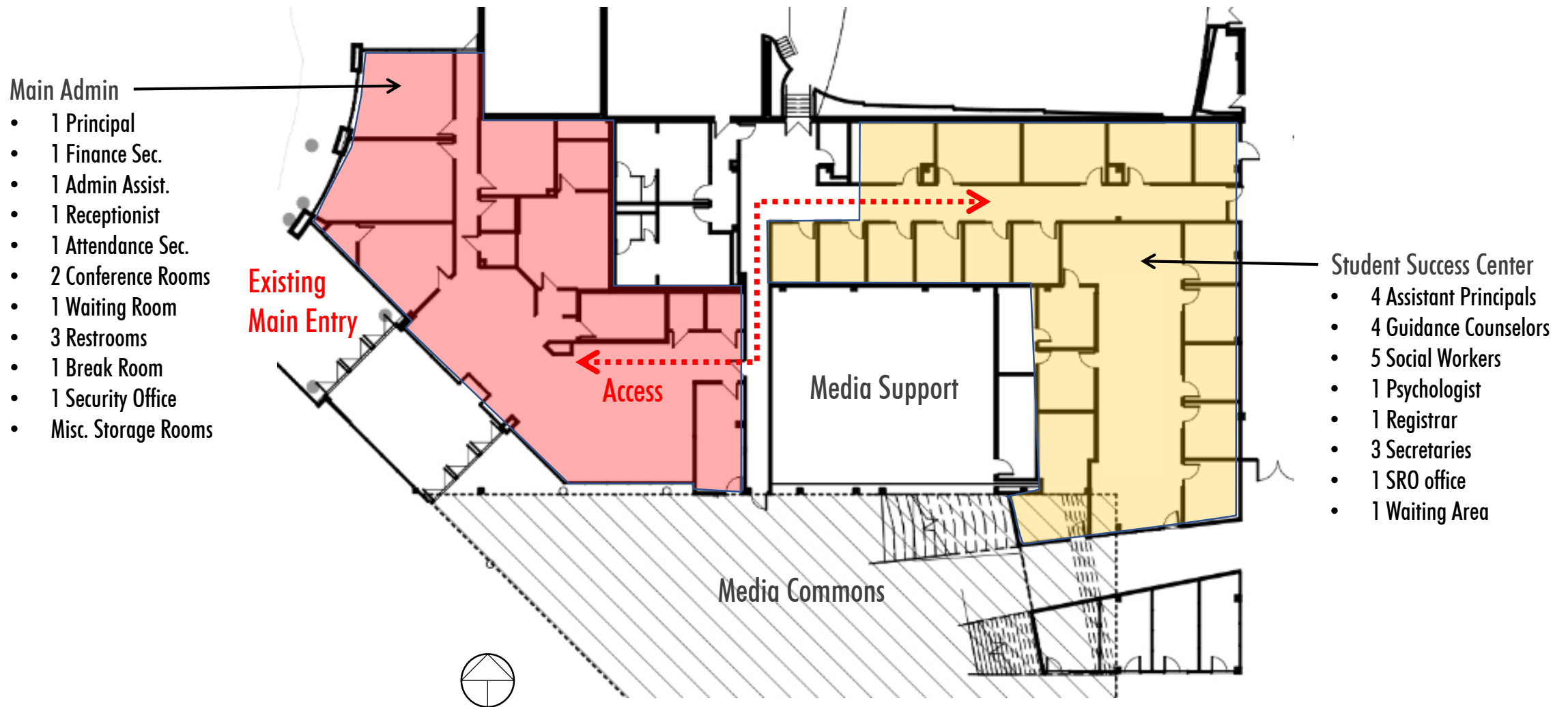




All-Gender Facilities

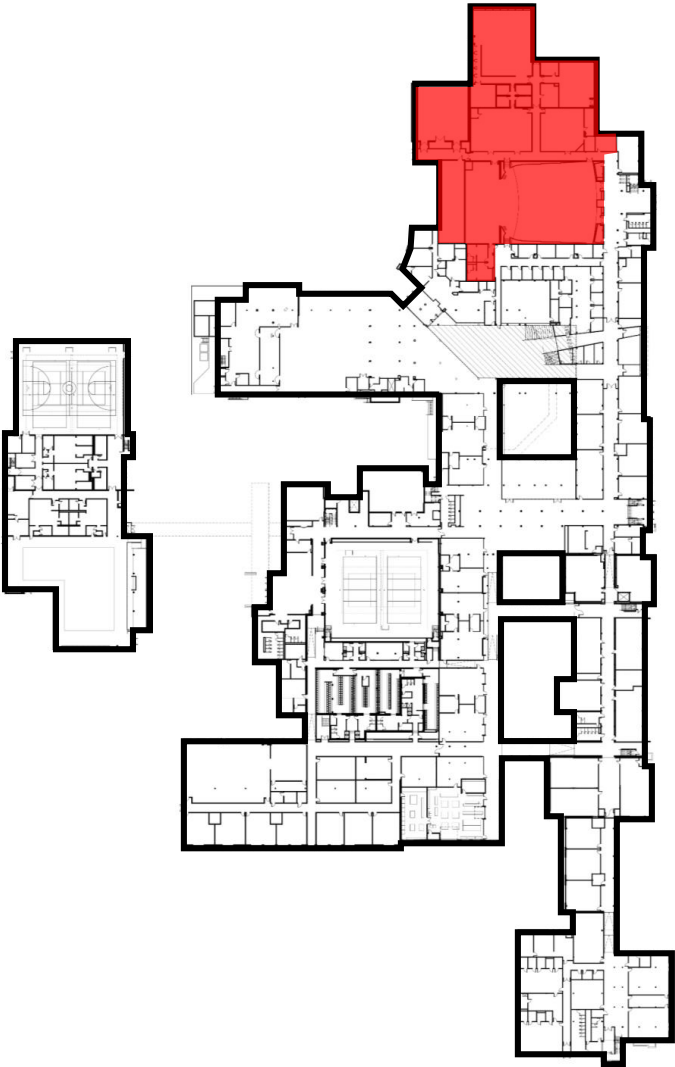


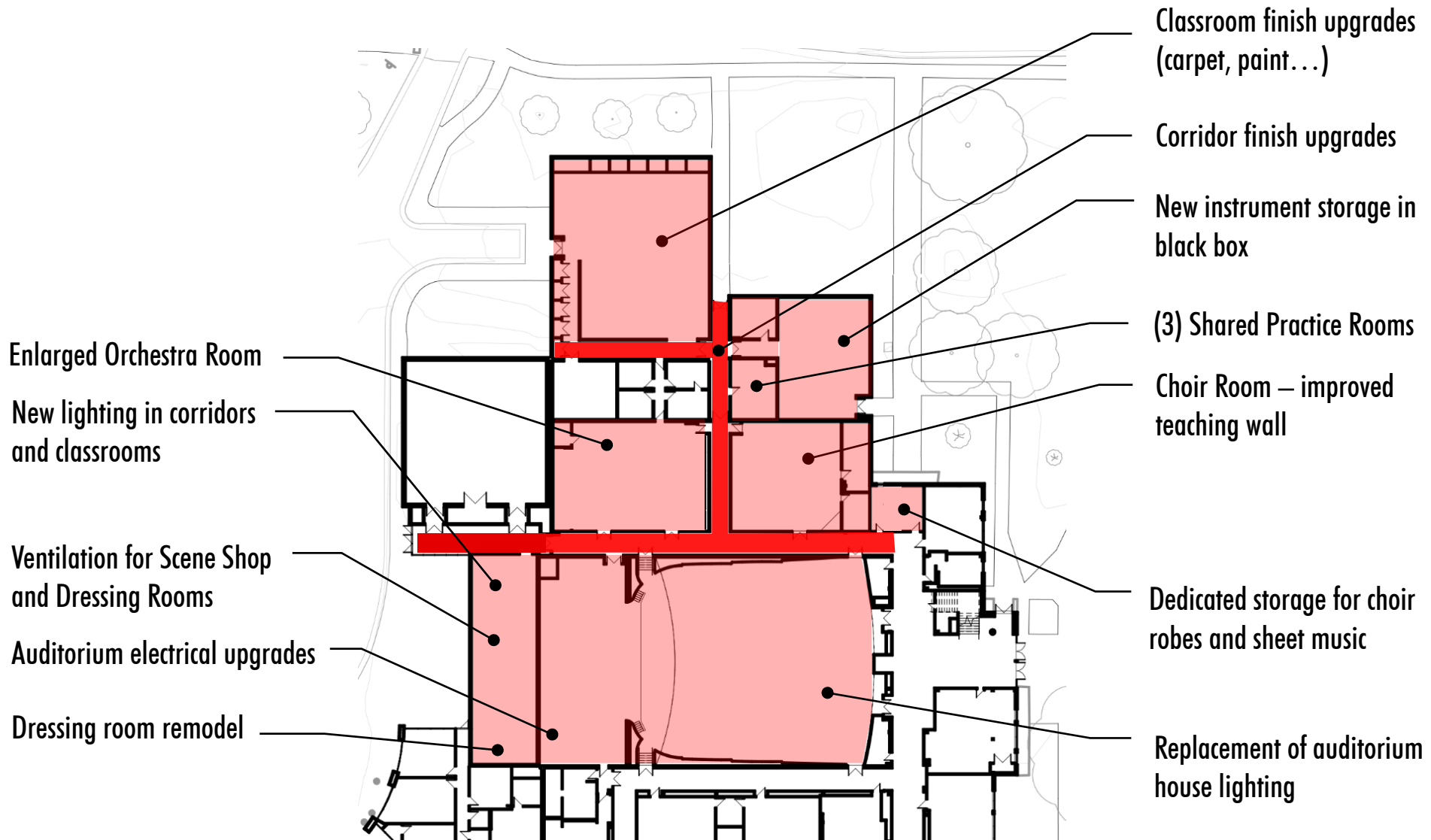
Main Office + Student Success



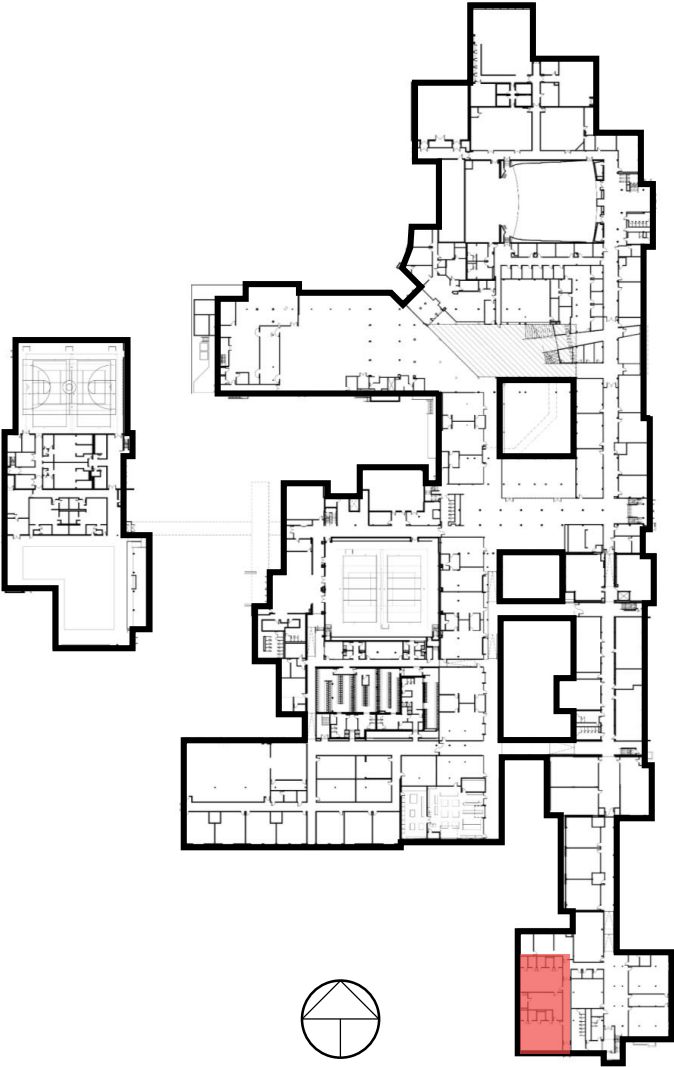
Main Office + Student Success

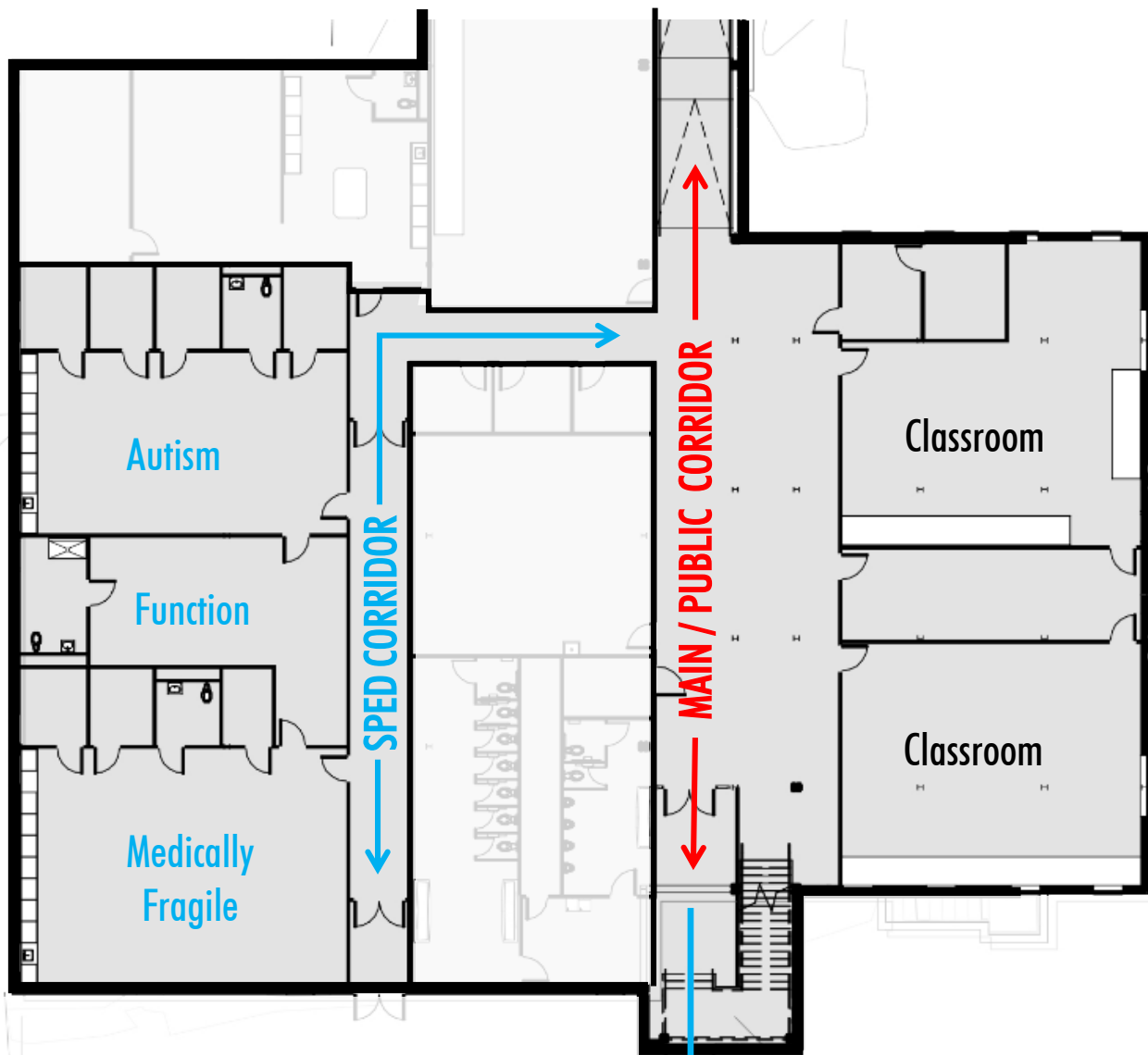
Performing Arts





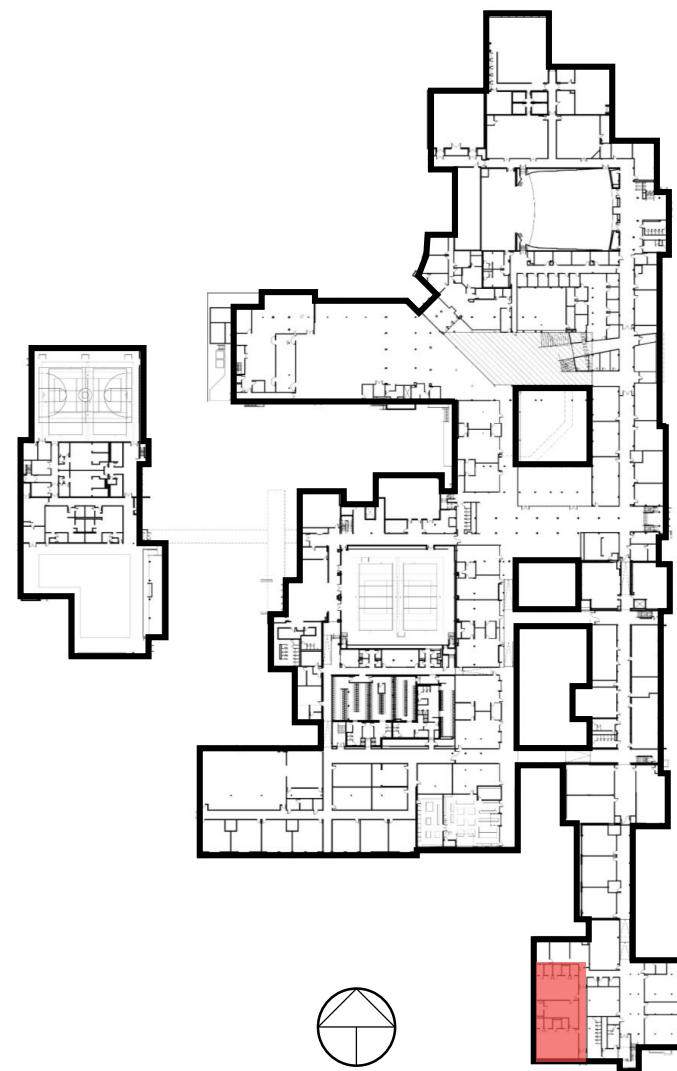
Specialized SpEd Classrooms



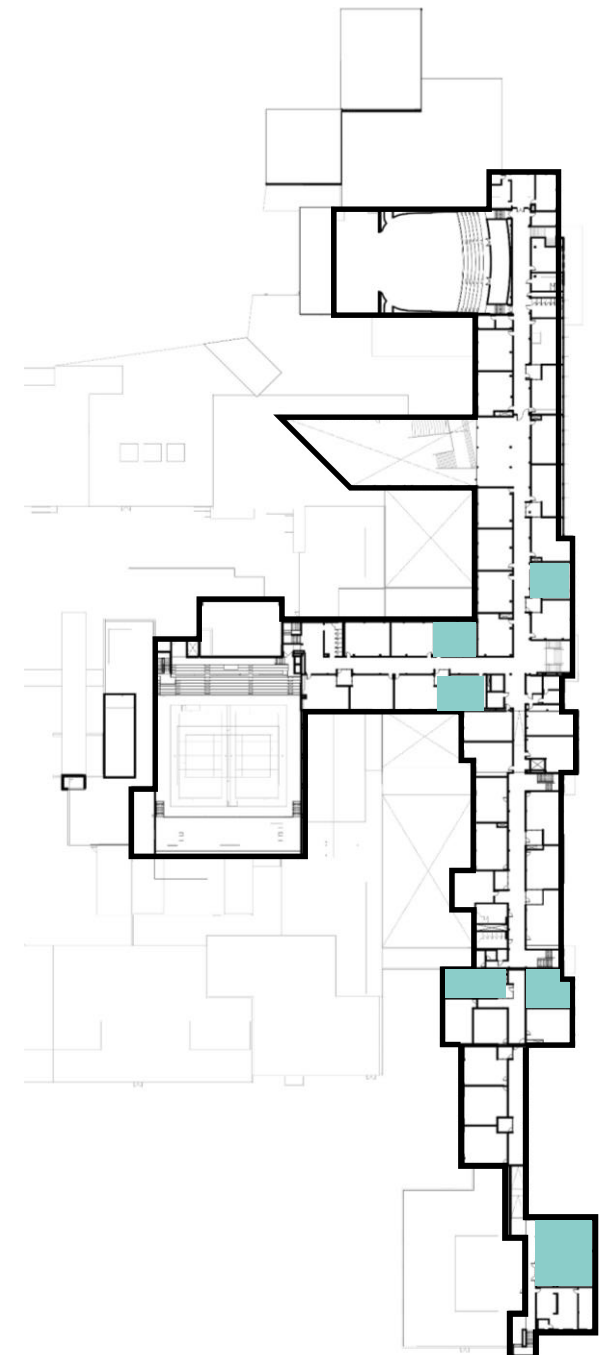
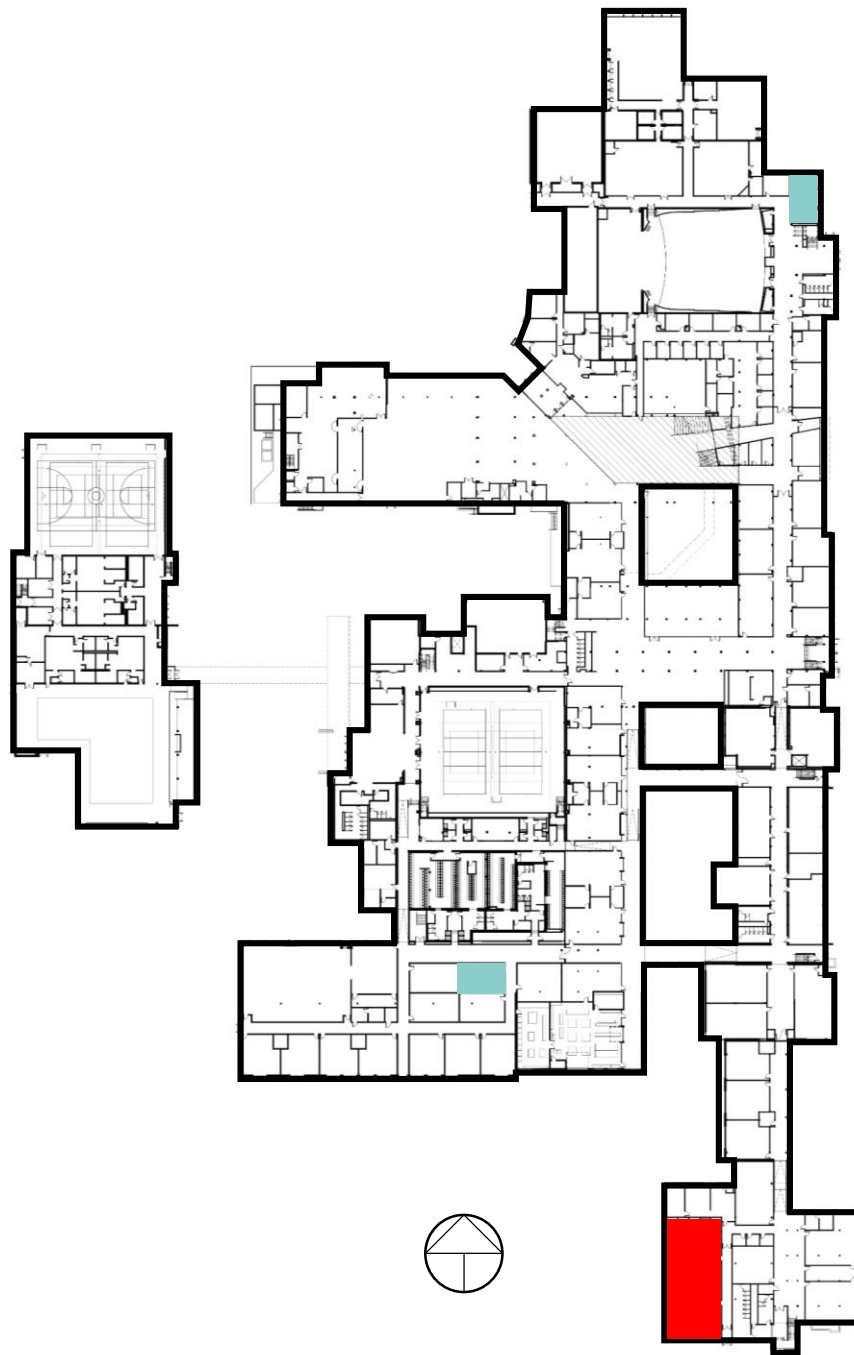


Specialized SpEd Classrooms

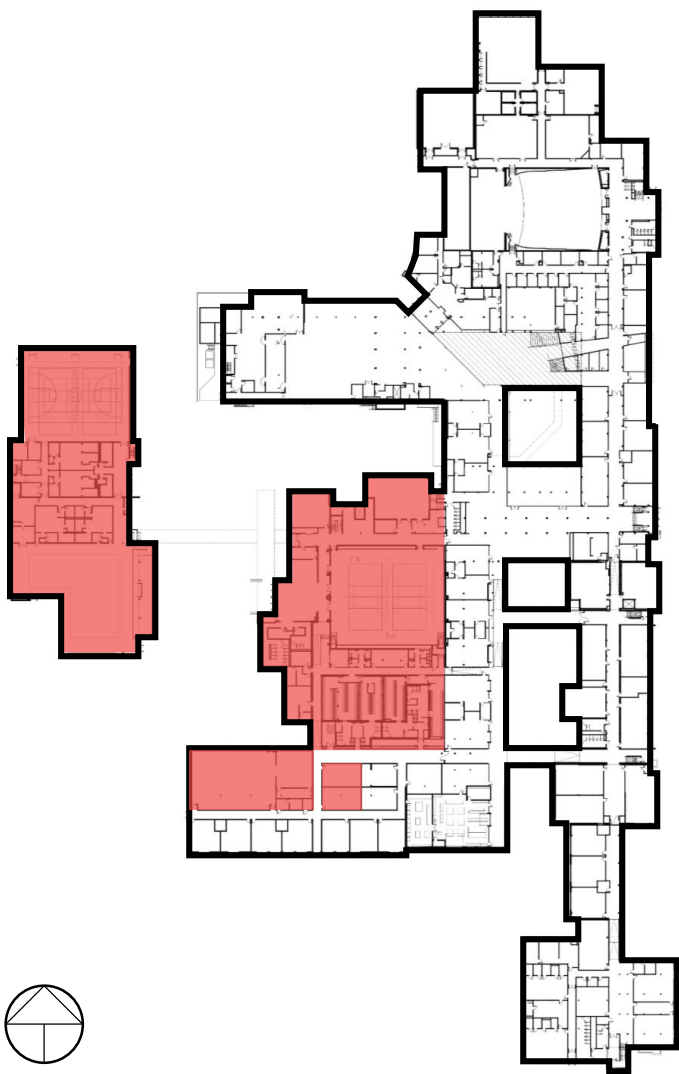
Easy Access to Bus Drop-Off / Pick-Up



- Specialized Classrooms (ESL, ED, Gifted, Adaptive)
- Specialized SpEd (Autism, Medically Fragile, Function)



Specialized Classrooms

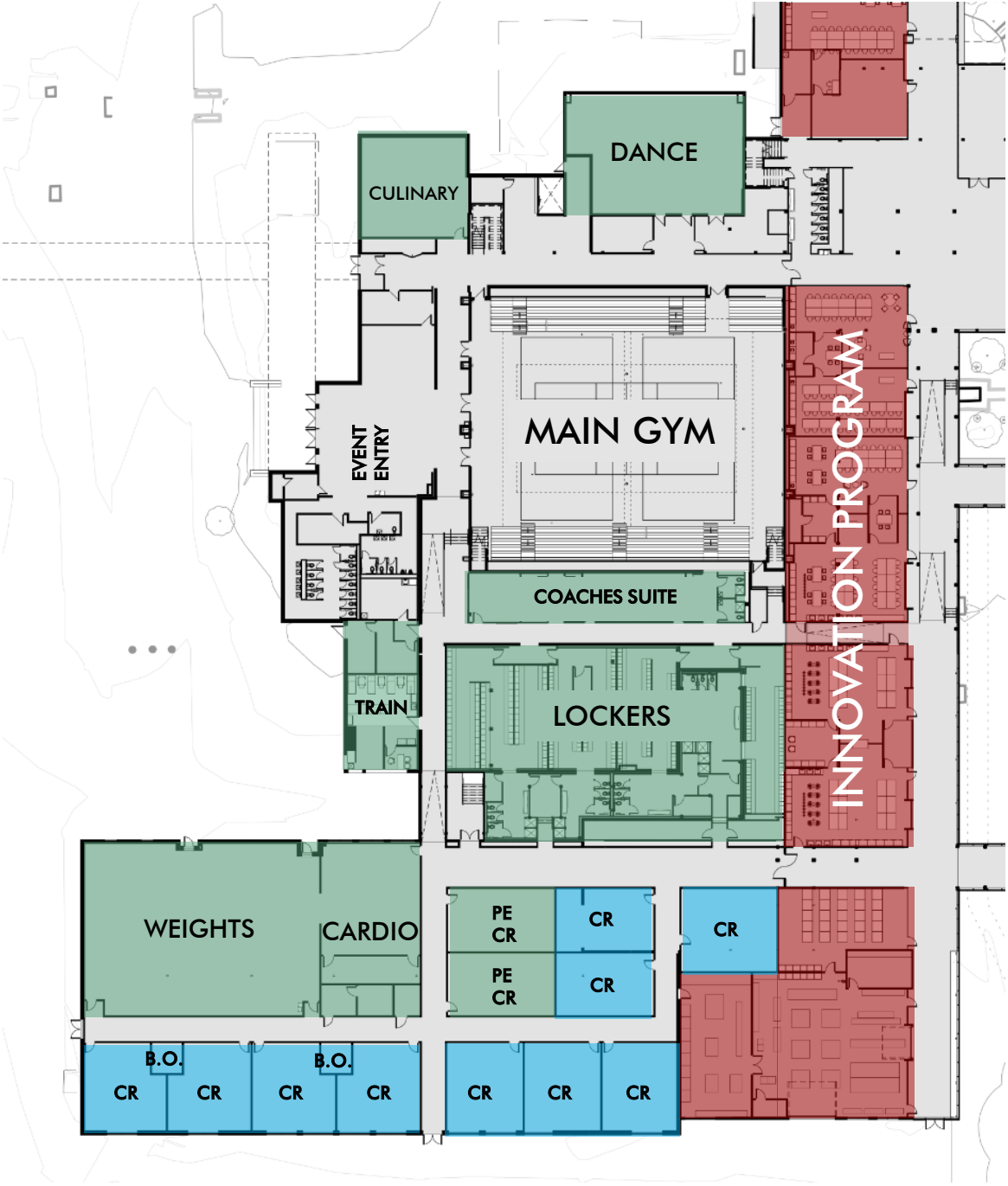


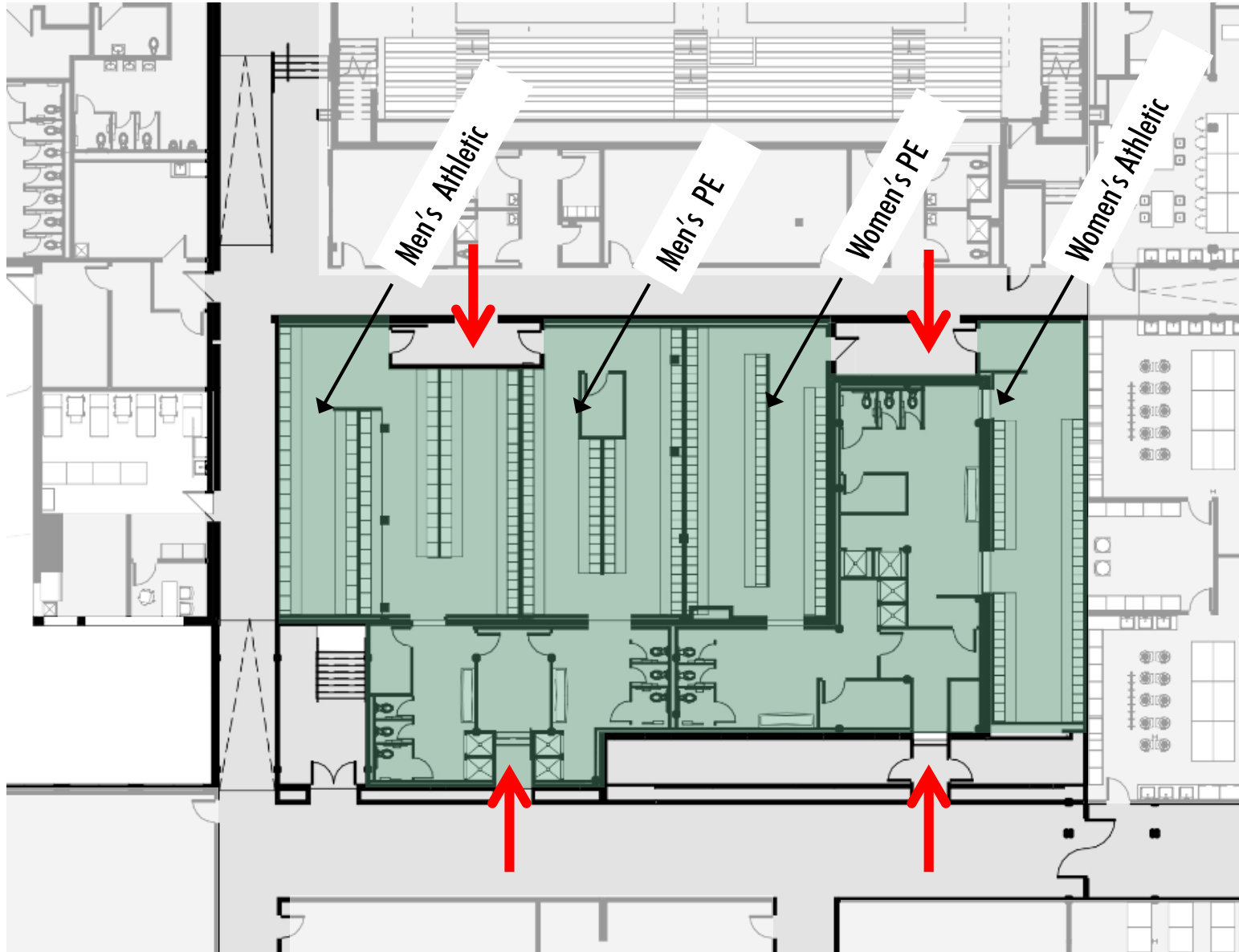
Wellness / Athletic District



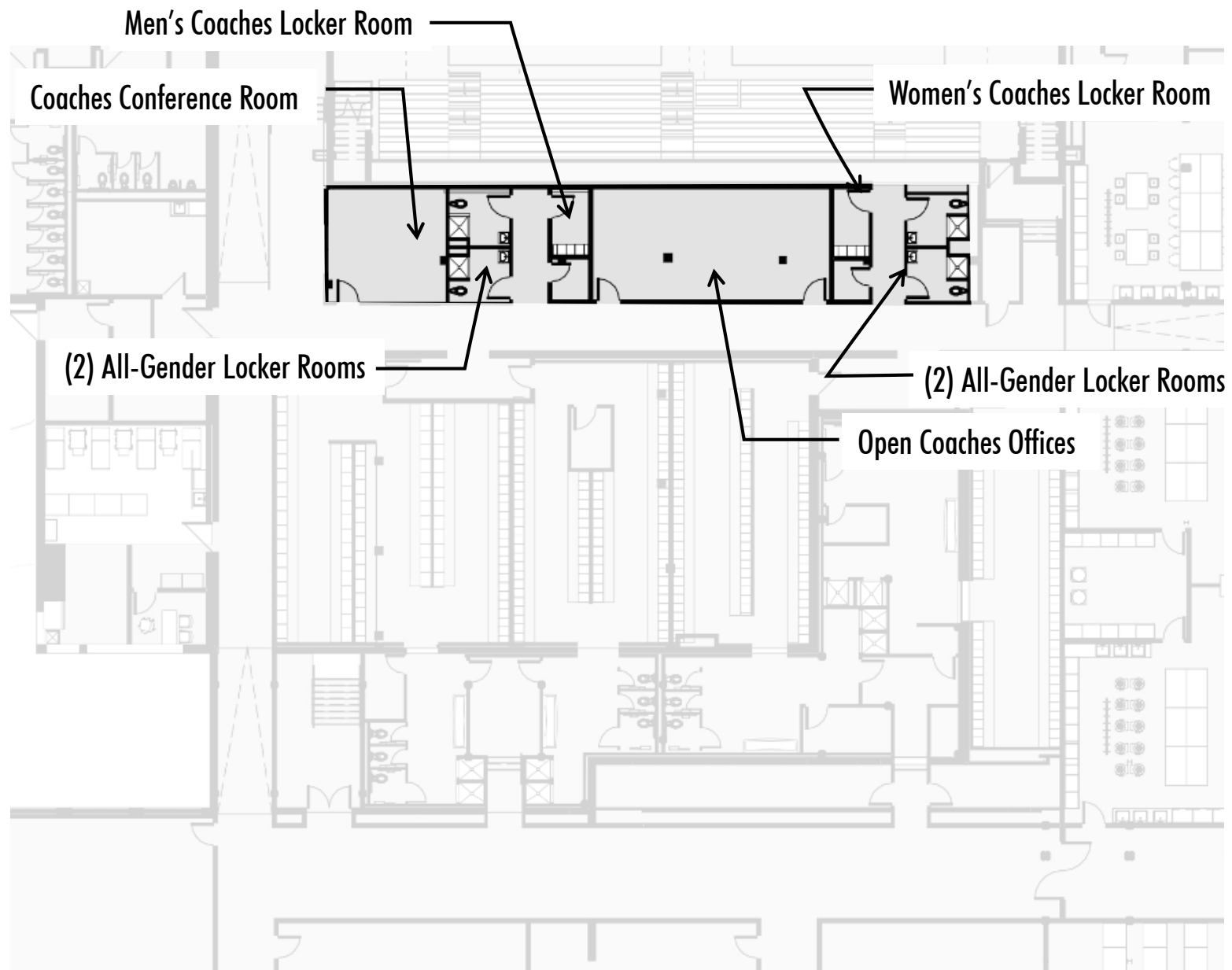


Wellness / Athletic District

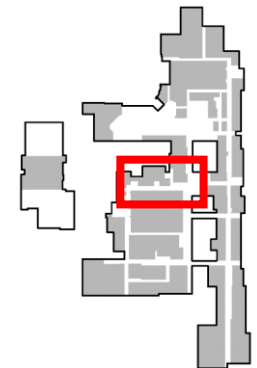
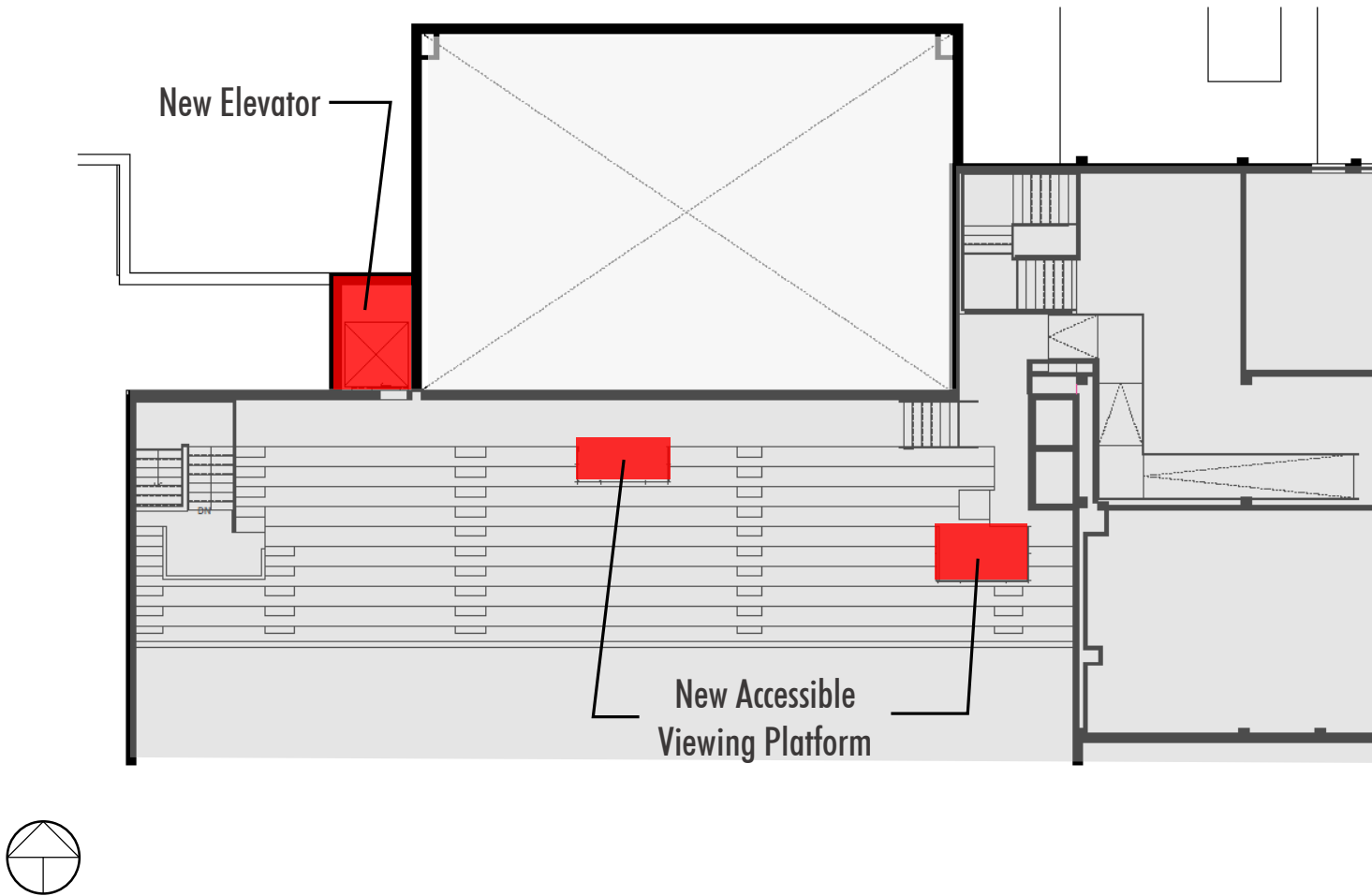




Wellness / Athletic District – Athletic / PE Locker Rooms

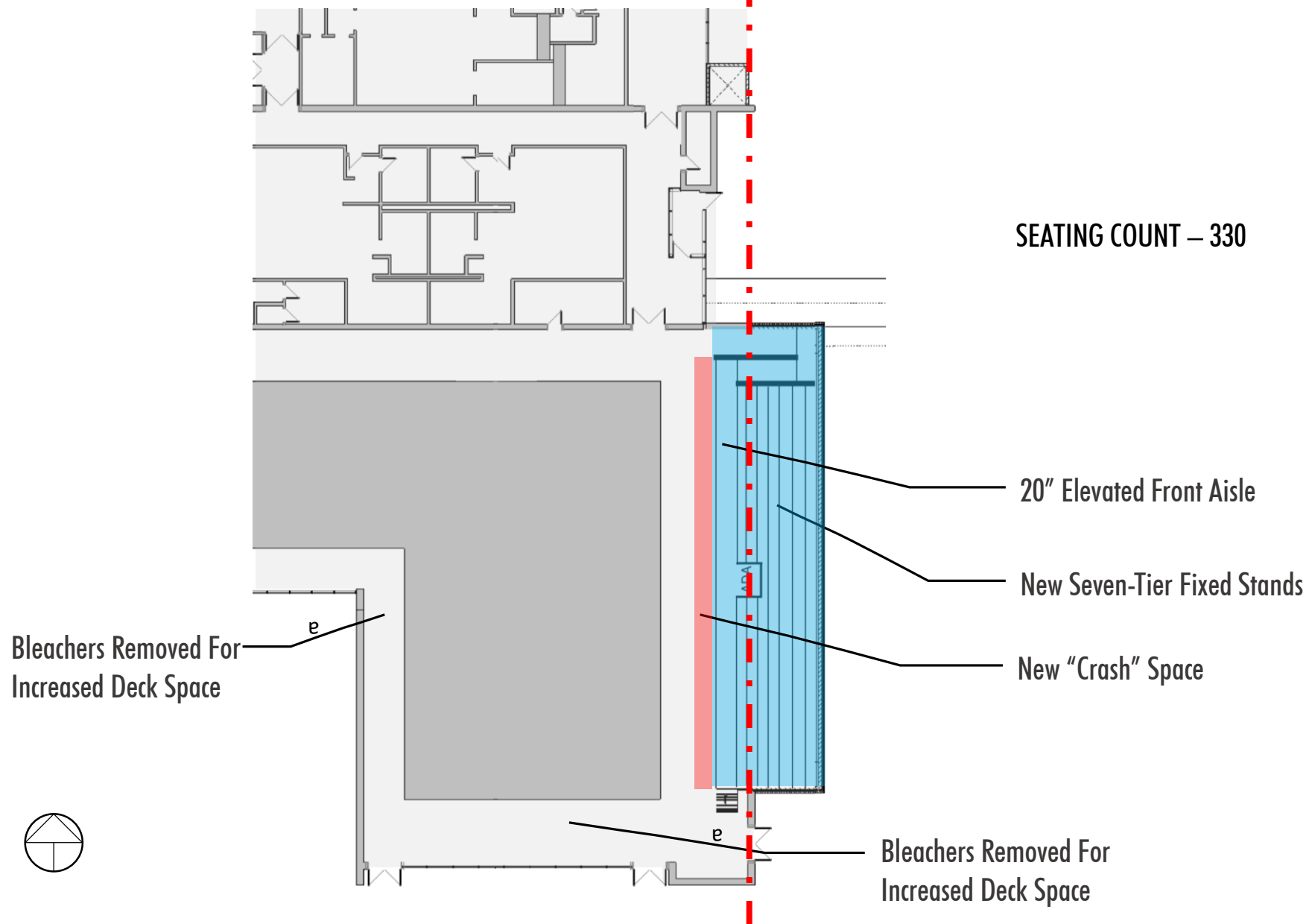


Wellness / Athletic District – Coaches Lockers / Office, All-Gender Locker Rooms



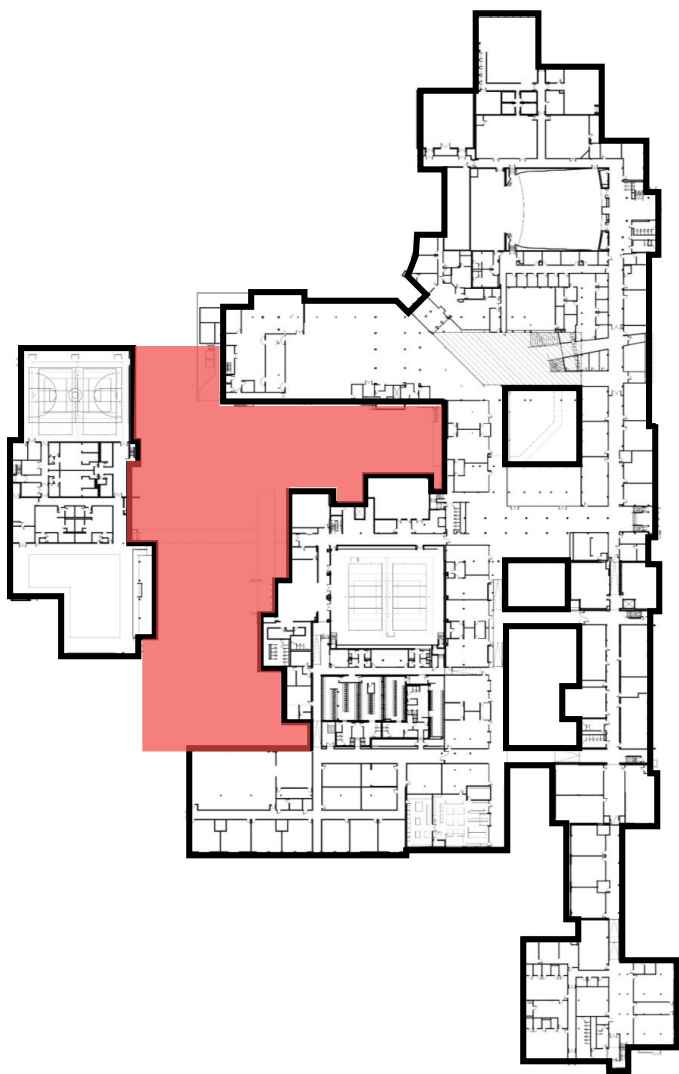
Wellness / Athletic District – Main Gym Mezzanine Accessibility

← Existing Building | Building Addition →



Wellness / Athletic District – Natatorium

SITE DEVELOPMENT



Site Development

FROM NORTH PARKING LOT

New Concrete Pad for
Exterior Freezer Storage

New Gate
(Secure Courtyard
During School Hours)

Student Annex Access

Tiered Seating

Athletics Event Entry

Student AM Entry

New Gate
(Secure Courtyard
During School Hours)

Service Area

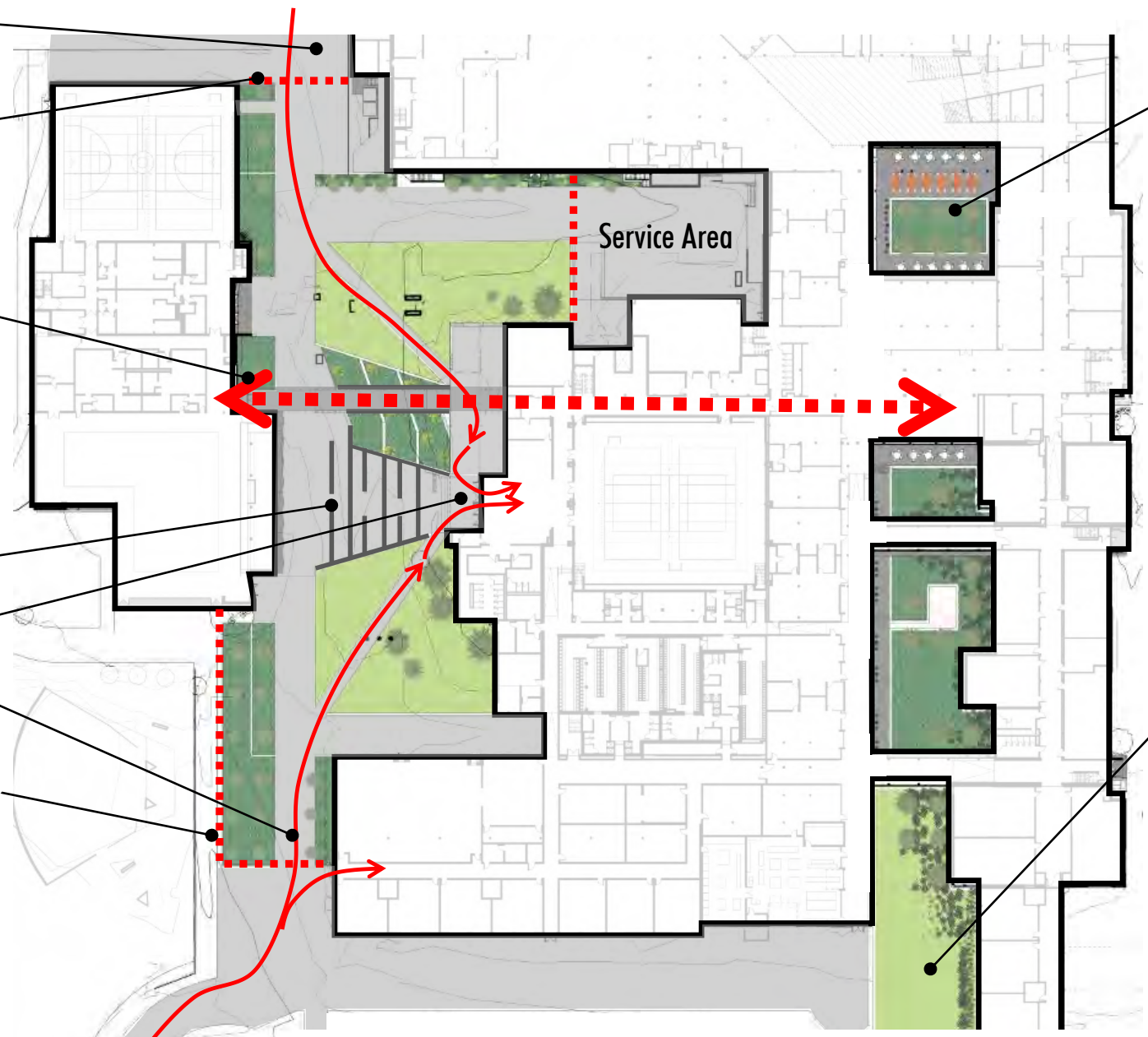
Expanded East
Courtyard

Expanded Bus Drop-Off

Potential Future
Garden and
Greenhouse Location

Site Development

FROM SOUTH PARKING LOT





Outdoor Learning Commons, View Looking North
Site Development

FURNITURE & TECHNOLOGY PILOT

STUDY:

English, Science, Math And History (4 Classrooms)

TESTING:

Technology Solutions, Lighting, Flooring, Paint, Furniture Systems

FEEDBACK / RESEARCH:

246 Students Surveyed

Follow-up Meeting with Teachers

Benchmark Tours of Peer Institutions



LED Lighting with Increased Control

Refresh (Light Grey) Paint Color

New Technology

Carpet

Furniture

Furniture & Technology Pilot



STUDENT FURNITURE

- + Seat Comfort
- + Seat Movement
- + Chair Base
- + Backpack Storage
- + Tiered Table Heights
- + Reconfigurability



TEACHER FURNITURE

- + Storage Solutions
- + Height Adj. Desk
- + Ergonomic Task Chair
- + Mobile Presentation Table



Key Take-Aways

Height-adjustable and swivel chairs were well liked

Teachers like tiered tables

Students loved the whiteboard tops

Mobility and reconfiguration is highly desired

Adjustable lighting is great

75" Flat Panel Monitors preferred by teachers
(new district standard)

SUSTAINABILITY & WELLNESS

KEY ENERGY-SAVING MEASURES

- Steam Boiler Replacement with Condensing Gas Hot Water Boilers
- Variable Speed CW Pumps
- Variable Speed HW Pumps
- Target 35% Interior Lighting Power Reduction Through Use of 100% LED Source Lighting
- Daylight Harvesting in Classrooms/Commons
- Building Power Monitoring — Sub-metering / Potential Building Dashboard
- Air-cooled VRF w/ Decoupled Outside Air
- 30% Increased Outside Air for Ventilation to Classroom and Learning Spaces
- High-Performance Envelope For Building Additions

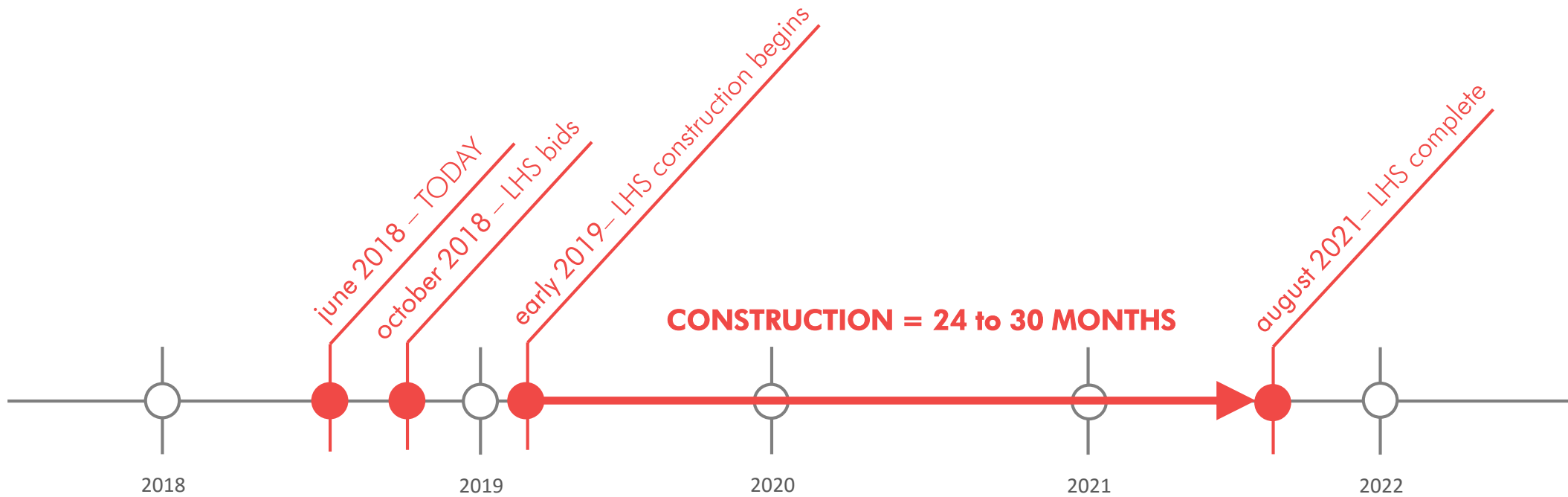
SCHEDULE / BUDGET

FACTORS DRIVING SCHEDULE

- Maintaining consistent number of classrooms
- Separation between construction and student learning
- Access of the construction team into the building
- Emergency egress for occupants of the space
- Routing of students through the school
- Transition of phases at major breaks
- Relocation of programs and use of other district facilities

TIMELINE

- The construction, design, and district teams continue to meet on a regular basis to explore a multitude of options to ensure the right plan is created. This should be largely vetted out in the next 3 to 4 months.



Schedule

CONSTRUCTION \$42,498,000

FURNITURE, FIXTURES, EQUIPMENT \$2,680,000

AUDIO/VISUAL \$750,000

(thank you)

gouldevans