

A High School Revolution...Leaving Old High School Designs in the Past



Agenda

1. Introductions
2. Site Acquisition
3. The Old Model
4. The Educational Village Model
 1. Great Schools by Design
5. House Bill 5 and Next Generation Learning
6. A New Design
7. Furniture Standards
8. Final Product
9. Questions?

Introductions



Roy Sprague, AIA, CSI, ALEP
Associate Superintendent for Facilities,
Construction & Support Services

Cypress-Fairbanks Independent School
District (TX)



Irene Nigaglioni, AIA, ALEP,
LEED AP BD+C
Partner/National Planning Director

PBK



**FOR
ALL**

MISSION

We will maximize every student's potential through rigorous and relevant learning experiences preparing students to be 21st Century global leaders.

CFISD State of the District

ENROLLMENT & DEMOGRAPHICS

The third-largest district in Texas and 23rd-largest in the nation, CFISD's student enrollment is expected to surpass 115,000 in 2016-2017.

23 LARGEST SCHOOL DISTRICT IN THE U.S.

3 LARGEST SCHOOL DISTRICT IN TEXAS

115,000 PROJECTED TO ENROLL 2016-2017



3.09% STUDENTS FROM DISTRICT IN PRIVATE/CHARTER SCHOOLS

96.91% STUDENTS FROM DISTRICT IN PUBLIC SCHOOLS

NEW RESIDENTS SINCE 2000

273,000

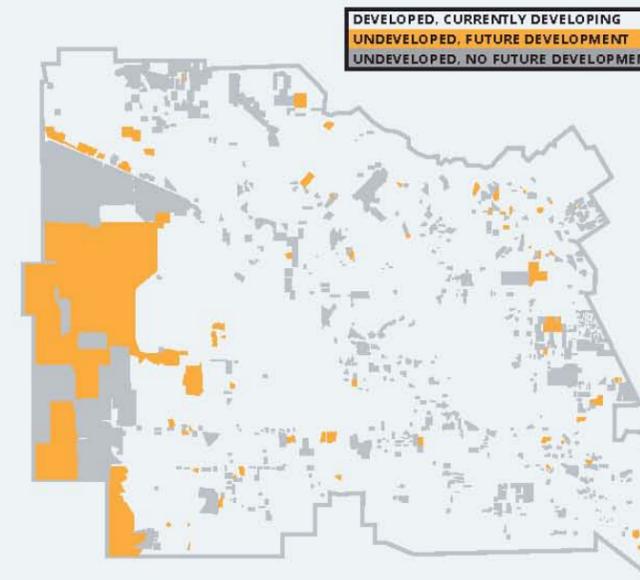
MORE RESIDENTIAL GROWTH THAN 21 STATES AROUND THE NATION

54 ELEMENTARY SCHOOLS **18** MIDDLE SCHOOLS **11** HIGH SCHOOLS **5** SPECIAL PROGRAM FACILITIES

#4 OUT OF 62 HOUSTON METRO-AREA SCHOOL DISTRICTS FOR MOST HOUSING STARTS IN THE PAST TWO YEARS

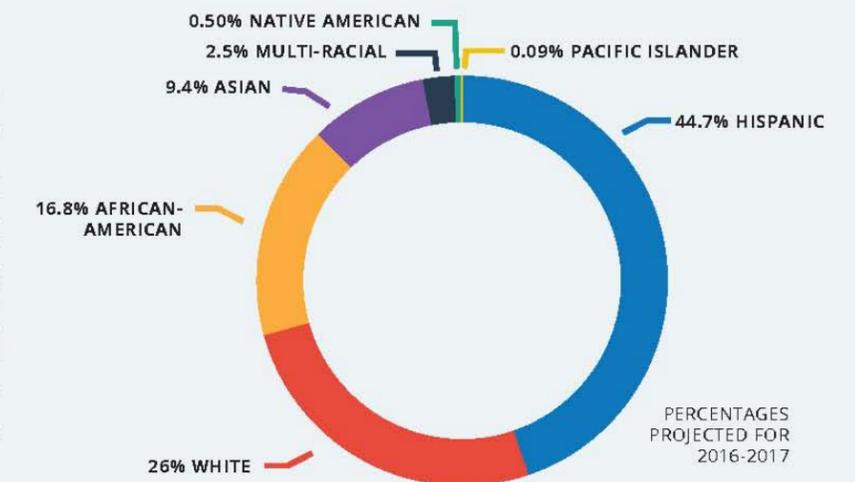
38,534 PROJECTED NEW HOUSING OCCUPANCIES BY 2025-2026

CURRENT & FUTURE DEVELOPMENT



With 20 percent of its 186 square miles undeveloped, the district continues to grow out toward its Grand Parkway-flanked western boundary. More than 38,000 housing occupancies are expected to join the district by 2025, ensuring future growth in the school community. District demographer Population and Survey Analysts (PASA) cites a low economically disadvantaged population, young population and high median income level as reasons for the district's continued expansion.

CFISD's multicultural population represents a rich ethnic diversity throughout the community. More than 100 languages and dialects are spoken by CFISD students, while 3,943 students have successfully completed the district's New Arrival Center (NAC) English language immersion program.



BOND UPDATE

The district continues to utilize taxpayer-approved bond funds to add new construction and improve existing facilities. CFISD's 11th high school, Cypress Park, opened in August to serve students in the southwest portion of the district. The first state-of-the-art piece of the district's first-ever "educational village" will be followed by a future middle school and elementary campus. Additionally, bond funds cover ongoing major renovations to Dean and Watkins middle schools as well as Adam and Bane elementary schools. The upgrades will be completed by the summer of 2017.

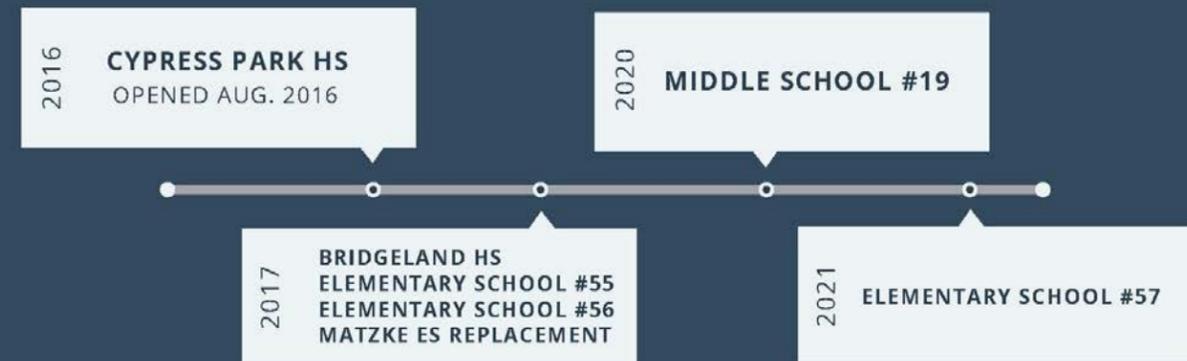
CYPRESS PARK HS BY THE NUMBERS

591,000 SQUARE FEET | **\$127 MILLION** BUILDING COST | **3,300** STUDENT CAPACITY

8 NEW CONSTRUCTION PROJECTS

BRIDGELAND HS • COLD FOOD STORAGE WAREHOUSE • ELEMENTARY SCHOOL #55
ELEMENTARY SCHOOL #56 • MATZKE REPLACEMENT CAMPUS • NATATORIUM
WESTGREEN AG-SCIENCE CENTER • WESTGREEN TRANSPORTATION CENTER
ONGOING THROUGHOUT 2016-2017

PROJECTED SCHOOL OPENINGS

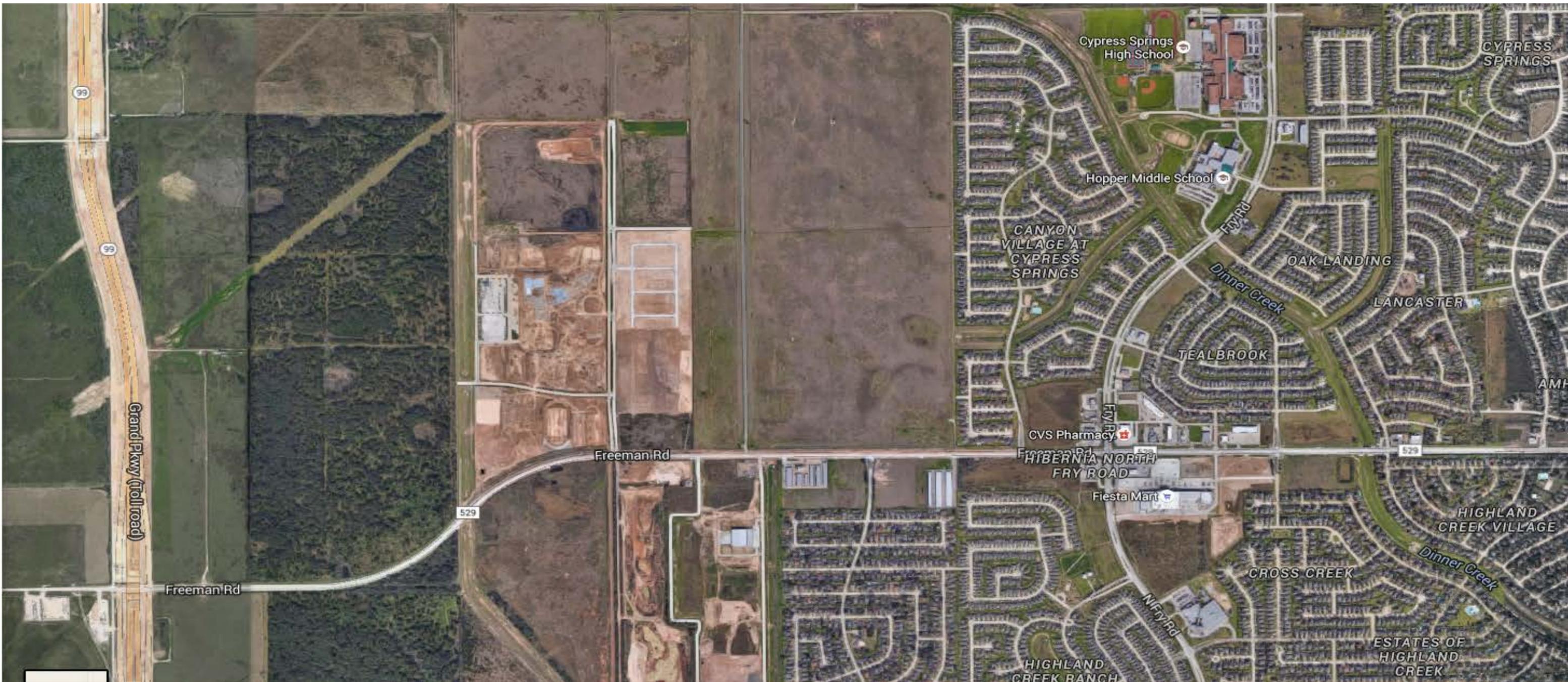


A fixture of CFISD athletics for many decades, Ken Pridgeon Stadium underwent a major renovation that athletes and fans will enjoy for the 2016 football season. A new natatorium funded by the 2014 Bond Referendum is scheduled to open next to Pridgeon Stadium in the first quarter of 2017, giving the entire block a new look.

\$49 MILLION COMBINED BUDGET FOR PRIDGEON AND NATATORIUM

COMPLETION 2016
PRIDGEON TWO-STORY PRESS BOX • CENTRALIZED TICKET BOOTHS
RENOVATED CONCESSIONS • BAND PLAZA • VIDEO BOARD

PROJECTED COMPLETION 2017
50-METER POOL • 1,000+ SEATS **NATATORIUM**



Site Acquisition

- **Site Acquisition was completed in 2008**
 - Five tracts acquired in 2006
 - Two 32 acre tracts at a cost of \$23,500 per acre
 - Two 5 acre tracts at a cost of \$23,500 per acre
 - 100 acre tract at a cost of \$23,500 per acre
 - A sixth tract was acquired in 2008
 - 5 acre tract at a cost of \$162,000 per acre
 - No utilities or roadways existed on the tract.



Site Acquisition

- The District became the developer and negotiated a Development Reimbursement Agreement with Harris County MUD 105 and multiple developers for the construction of the site infrastructure which included on/off-site storm water detention, water and sanitary sewer utilities and roadways.
- As part of the agreement, MUD 105 will reimburse CFISD up to approximately 40% of the site infrastructure costs of \$14.5 million once the MUD sells bonds as taxable values are created by the future development surrounding the site.
- Site Infrastructure construction was completed in August 2013
- Started the High School Construction in September 2014





The Old Model

The Old Model

- **Developed Educational Specifications**
 - Prototype plans
 - Different interpretations
 - Parity
 - Expedited schedule
 - Minors tweaks to the plans
 - Only developed site infrastructure
 - Simplified land purchases

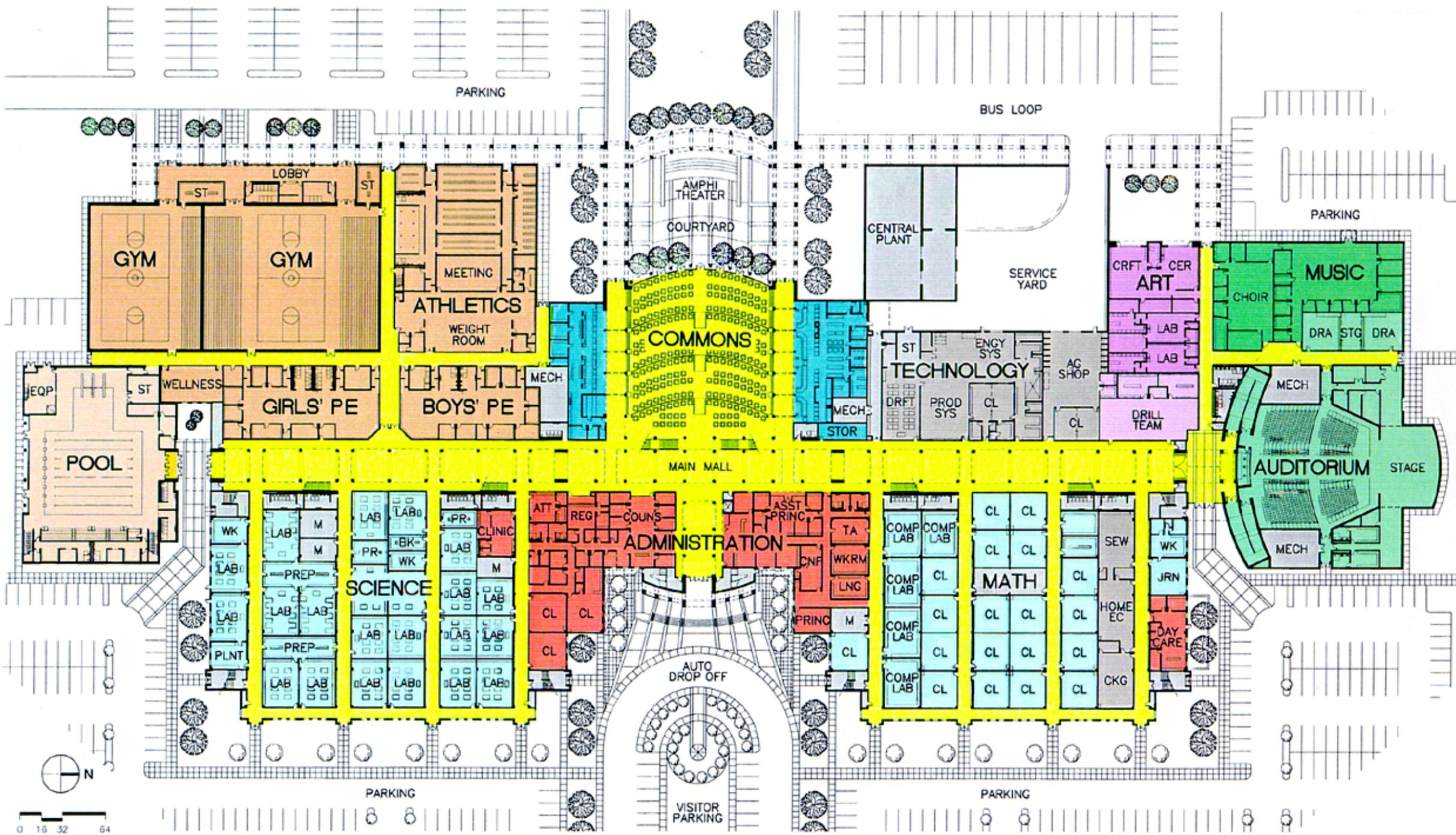


The Old Model



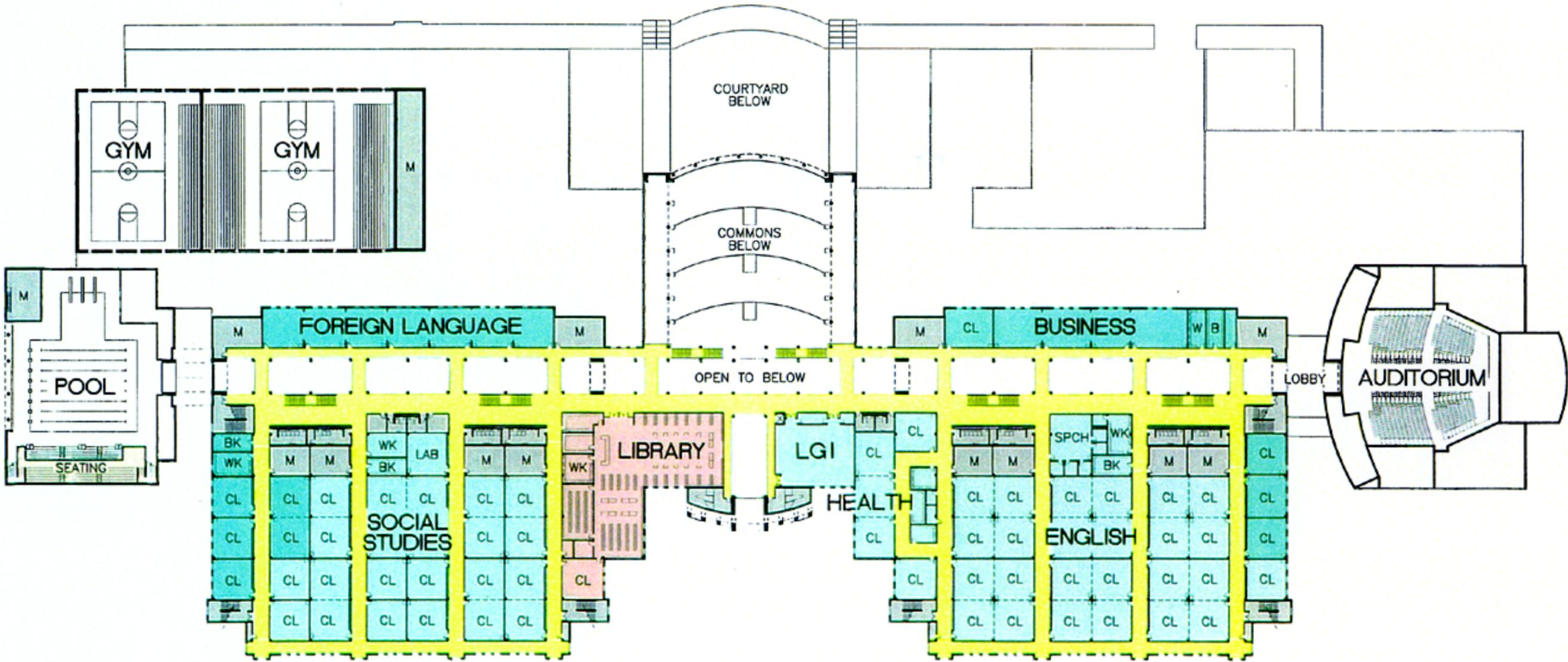
CYPRESS SPRINGS HS

The Old Model



FIRST FLOOR PLAN

The Old Model



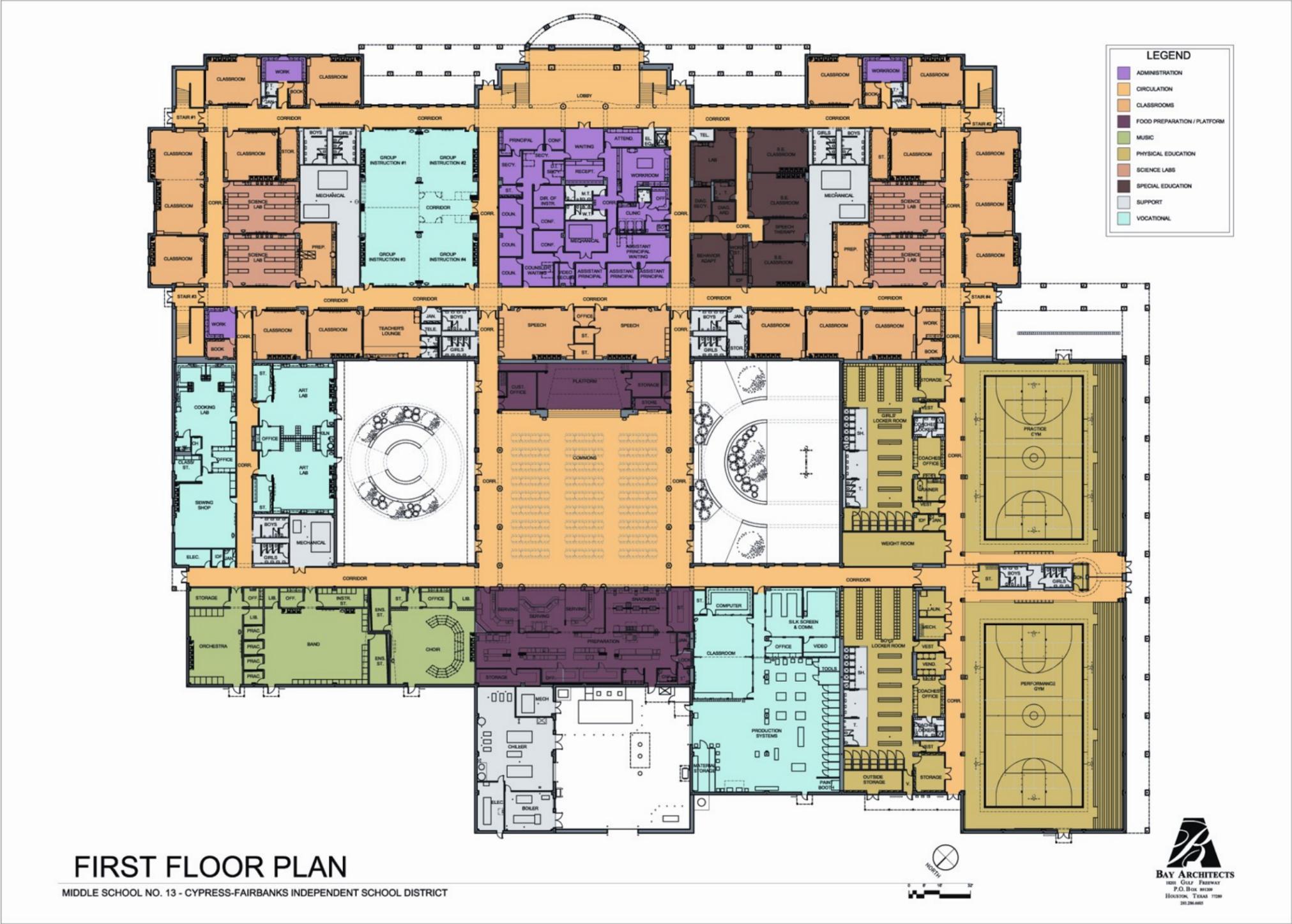
SECOND FLOOR PLAN

The Old Model



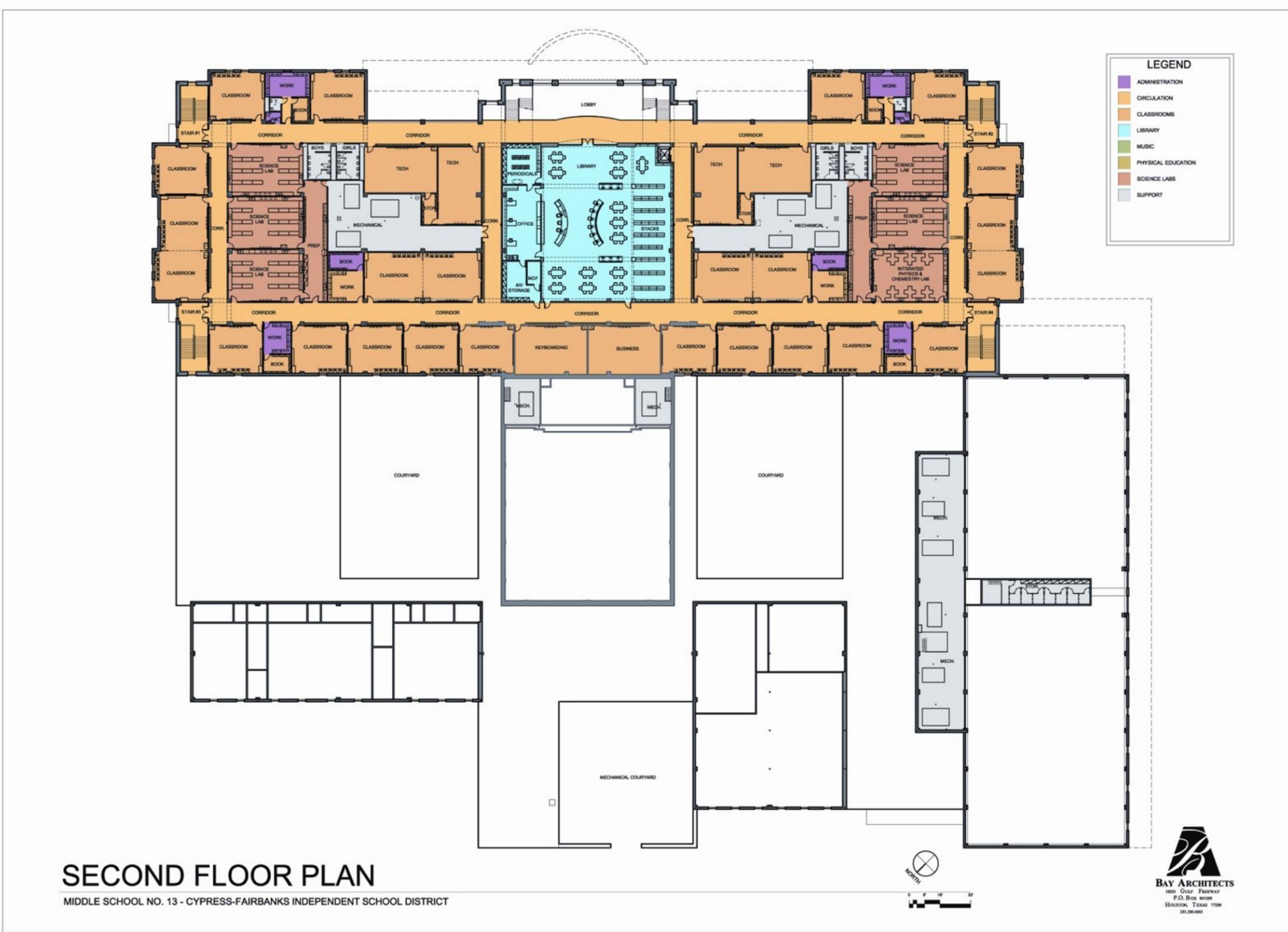
KAHLA MS

The Old Model



FIRST FLOOR PLAN

The Old Model



SECOND FLOOR PLAN

The Old Model



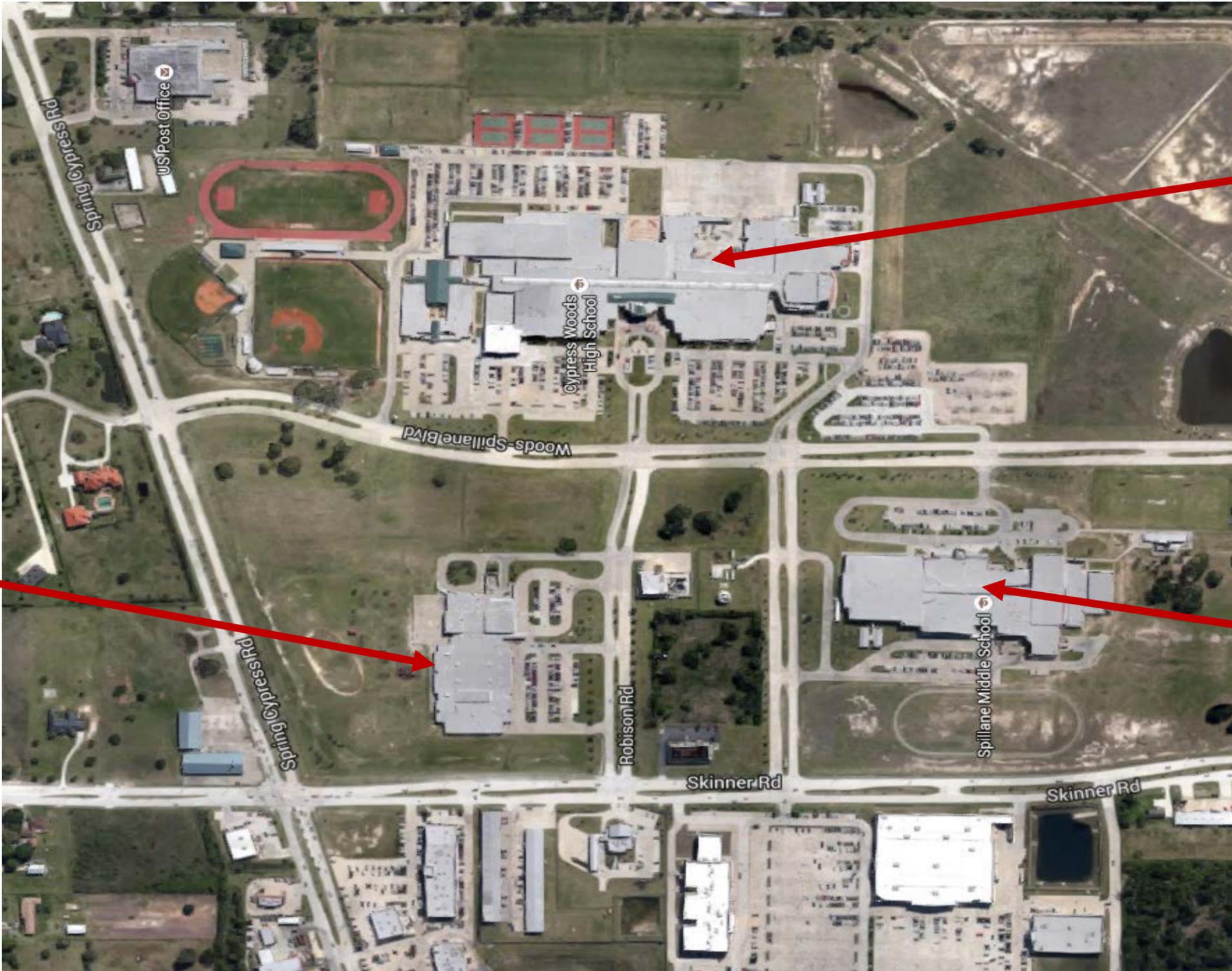
DANISH ES

The Old Model



FLOOR PLAN

The Old Model



CYPRESS
WOODS
HIGH SCHOOL

A. ROBISON
ELEMENTARY
SCHOOL

SPILLANE
MIDDLE
SCHOOL

MULTI-CAMPUS SITE



Educational Village

- **Great Schools by Design**



- **Design charrette hosted by Texas Association of School Administrators (TASA)**
- **Paired up Districts and Architects**
- **Identified options and possibilities**



Education Village: **Concept**

- A multi-campus site where each **individual school works in close connection** with the other schools to provide for a community of learners.
- The schools within the site **share facilities and resources**, in order to maximize the learning experience for each student.
- In most cases, the schools are organized in a manner that provides for **enhanced outdoor learning areas and multi-use courtyards**.



Education Village: **Concept**

- **The master planning of the entire site results in synergies** that enhance the learning environment. These synergies also result in the creation of shared spaces that benefit the community as a whole.
- By maximizing the opportunities to provide multi-use, flexible shared facilities, the **district can experience financial savings** both initially and over the life of the facility.



Hegar Site Study - A



Architecture
Engineering
Planning
Technology
Facility Consulting

PROPOSED MULTI-SCHOOL HEGAR SITE

SITE PLAN SCHEMATIC

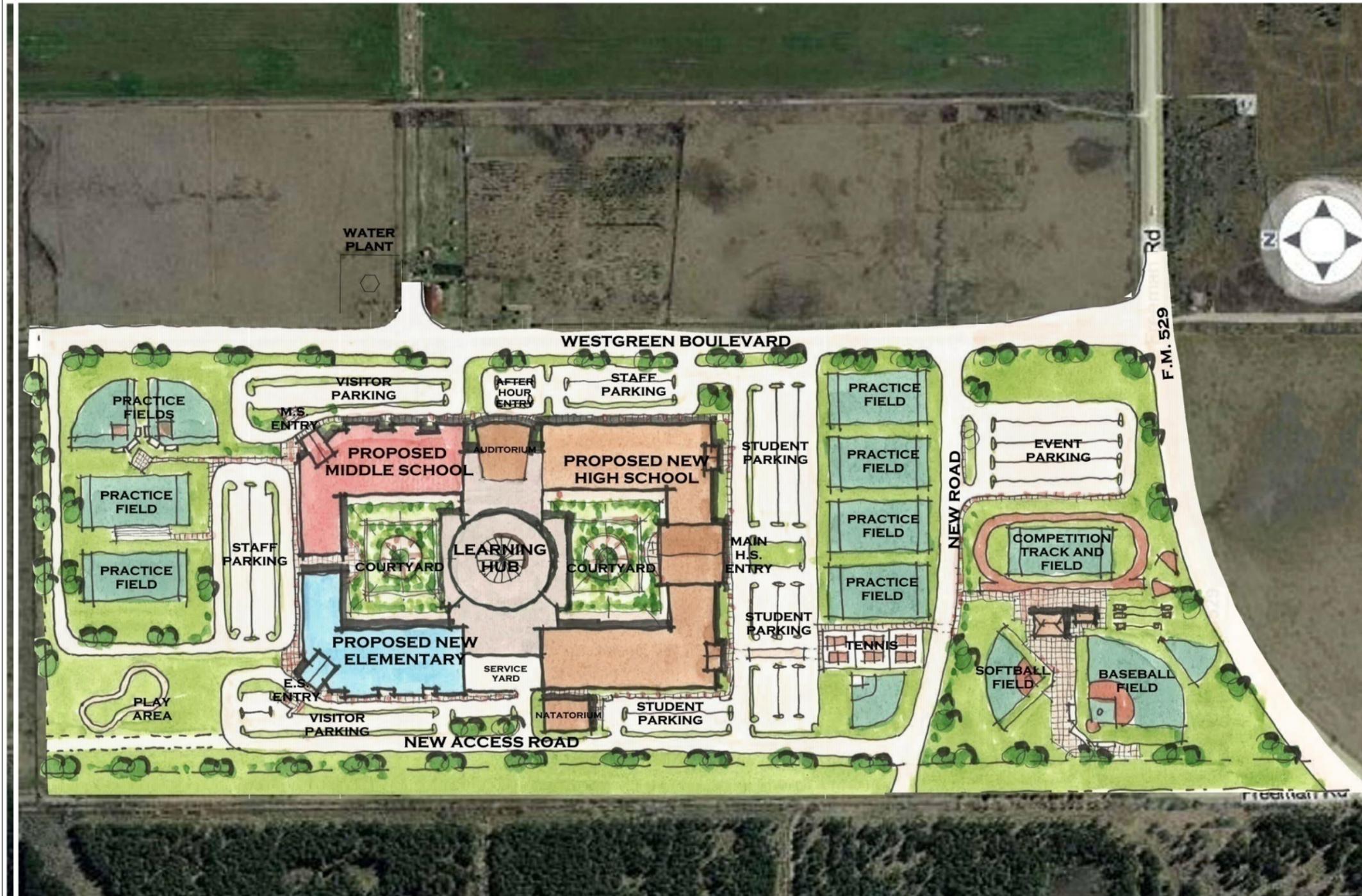
CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

January 17, 2013

0 125 250 500 FT N

A

Hegar Site Study - E



PRK
 Architecture
 Engineering
 Planning
 Technology
 Facility Consulting

DIVIDED CAMPUS FROM COMPETITION FIELDS BY NEW ROAD

PROPOSED MULTI-SCHOOL HEGAR SITE

SITE PLAN SCHEMATIC

CYPRESS-FAIRBANKS INDEPENDENT SCHOOL DISTRICT

January 17, 2013

0 125 250 500 FT N

E



House Bill 5 & Next Generation Learning

Next Generation Learning: Learning Hub

Adaptable Configurations Varied Seating Arrangements



Next Generation Learning: Transformed Classrooms



Opened /Closed Spaces
Adaptable Configurations



Next Generation Learning: Transformed Classrooms



Open & Collaborative Learning



Next Generation Learning: Collaboration

Media & Technology Access
Team Building
Reaching Common Goals



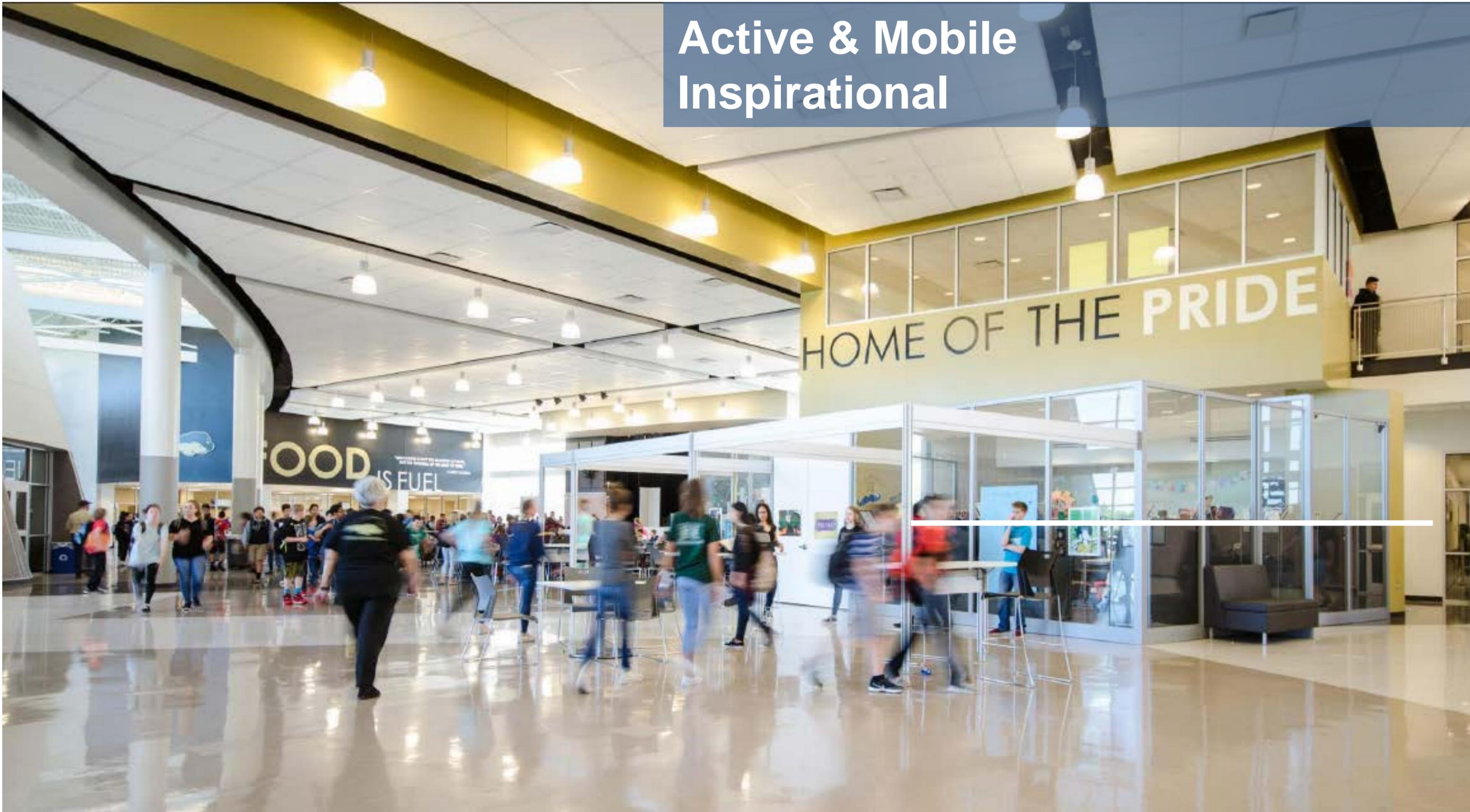
Next Generation Learning: Collaboration

Media & Technology Access Peer to Peer Learning



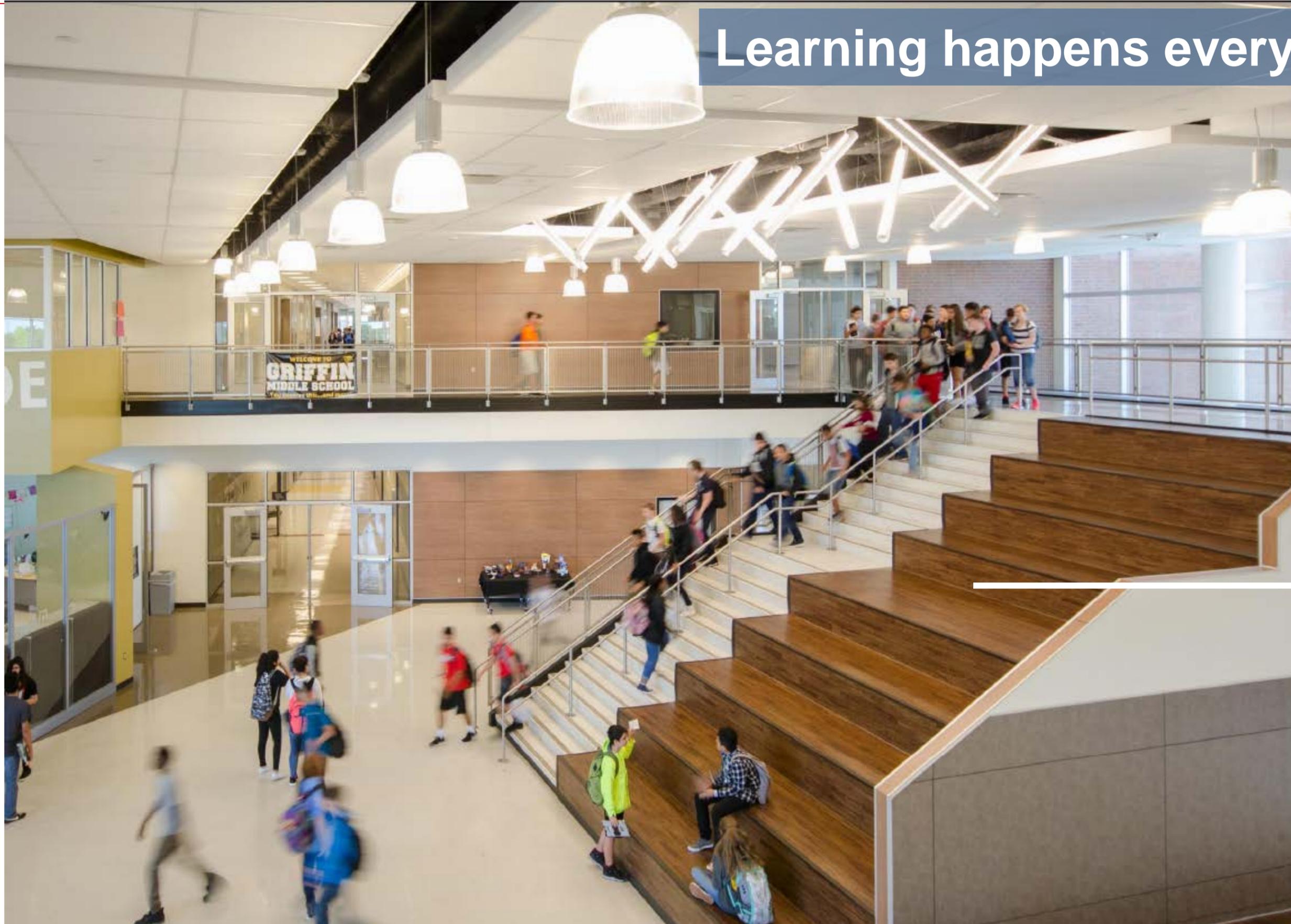
Next Generation Learning: Learning Hub

Active & Mobile
Inspirational



Next Generation Learning: Learning Hub

Learning happens everywhere



House Bill 5 Endorsements

Cypress Park High School

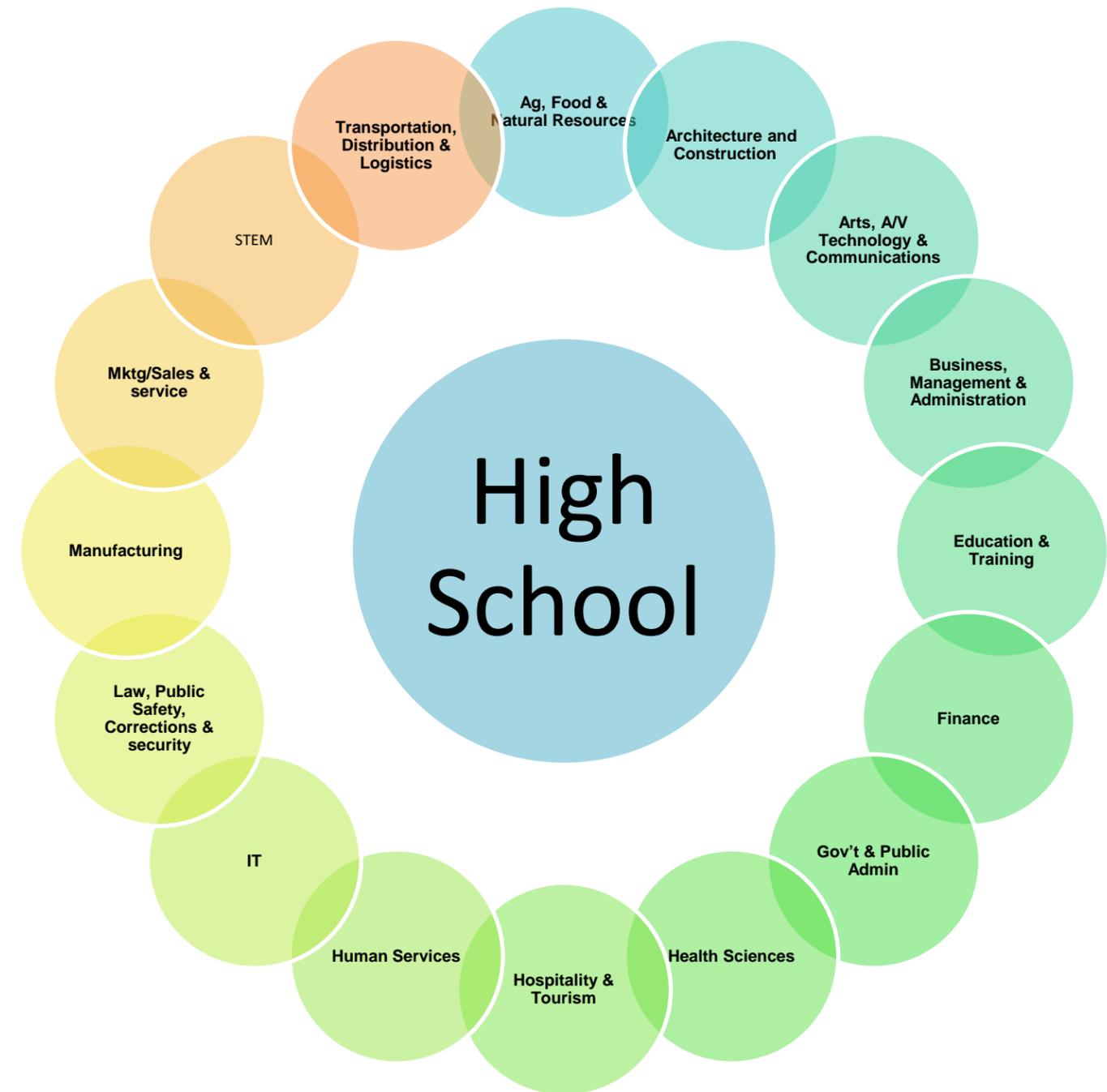
STEM

Business & Industry

Public Services

Arts & Humanities

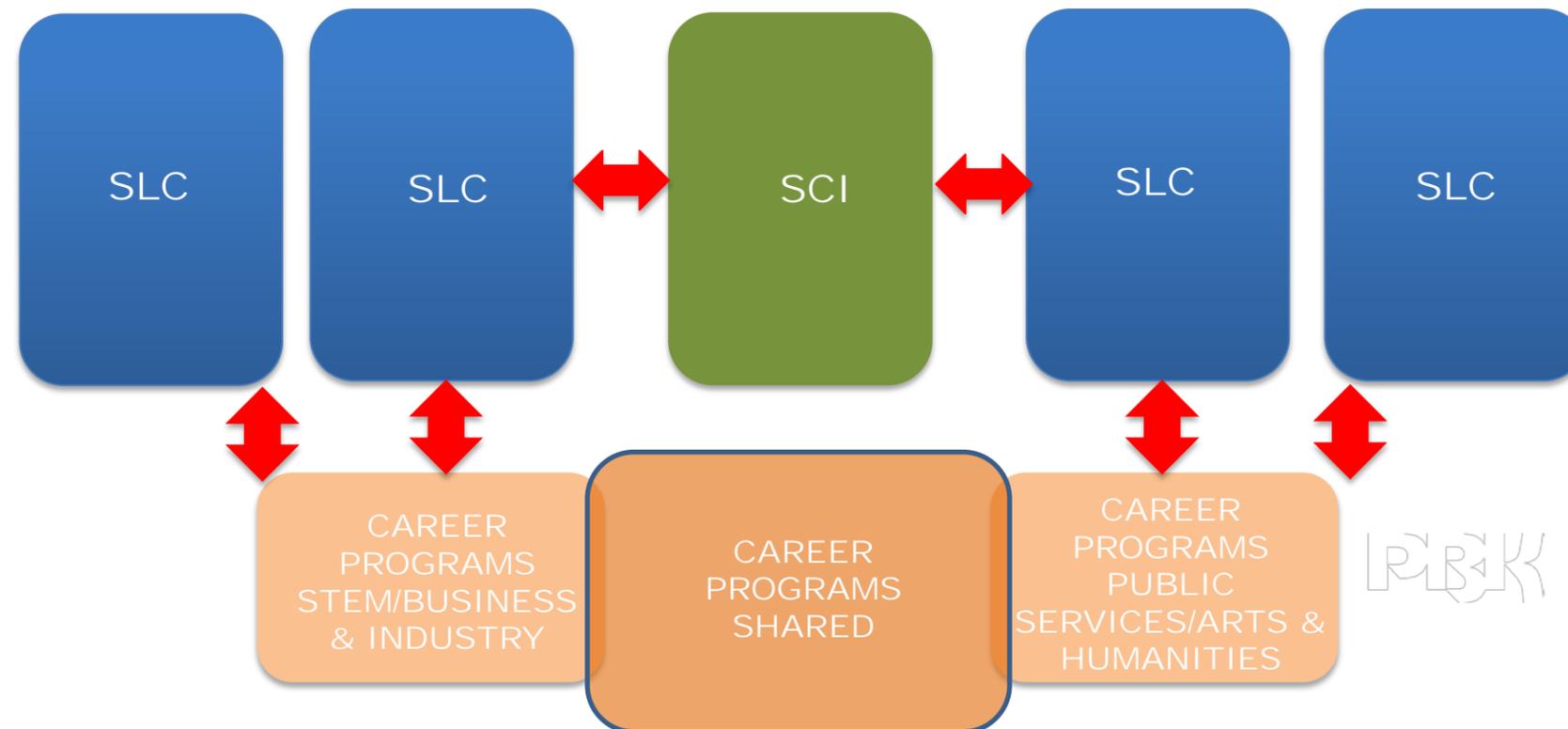
Multi-Disciplinary



School Organization

Options for organizing the High School

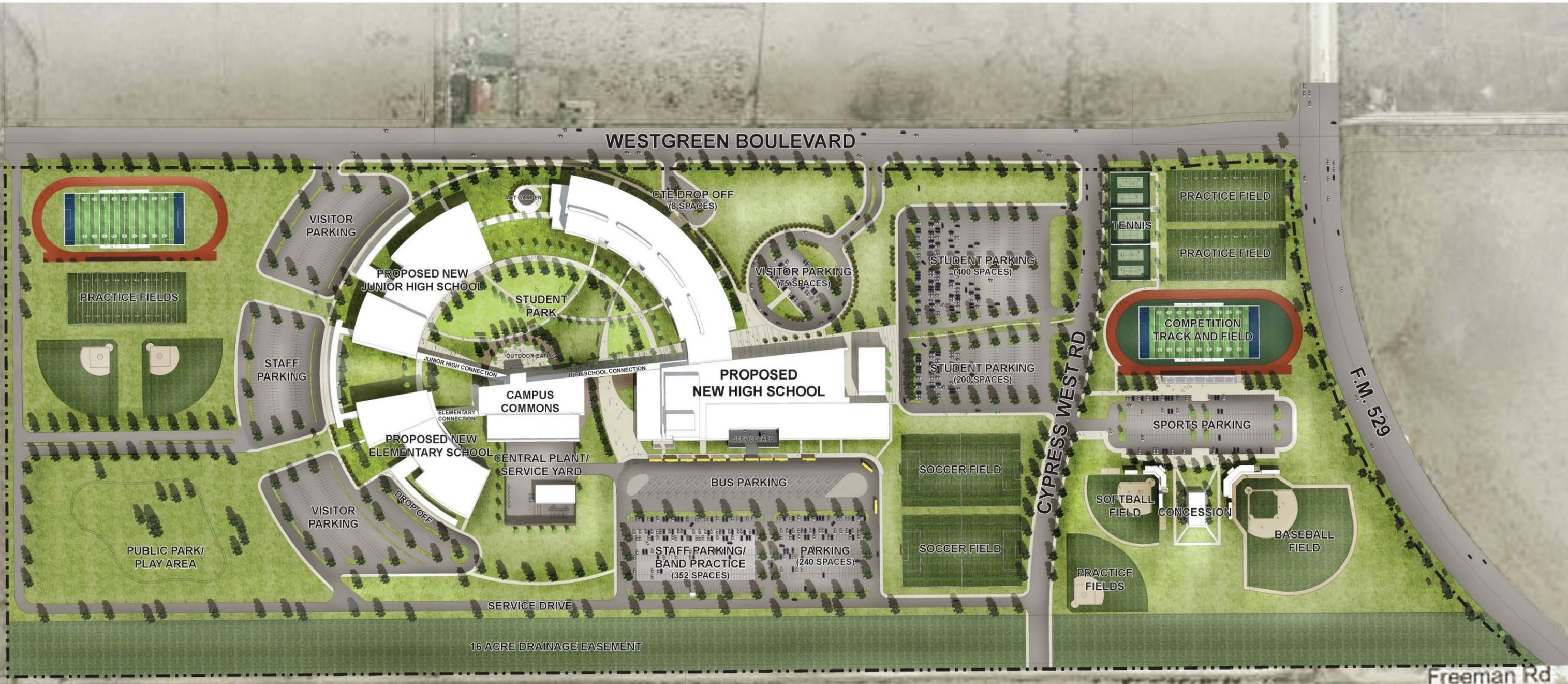
Small Learning Community with Core Classrooms, with a separate area for Science and Career Programs



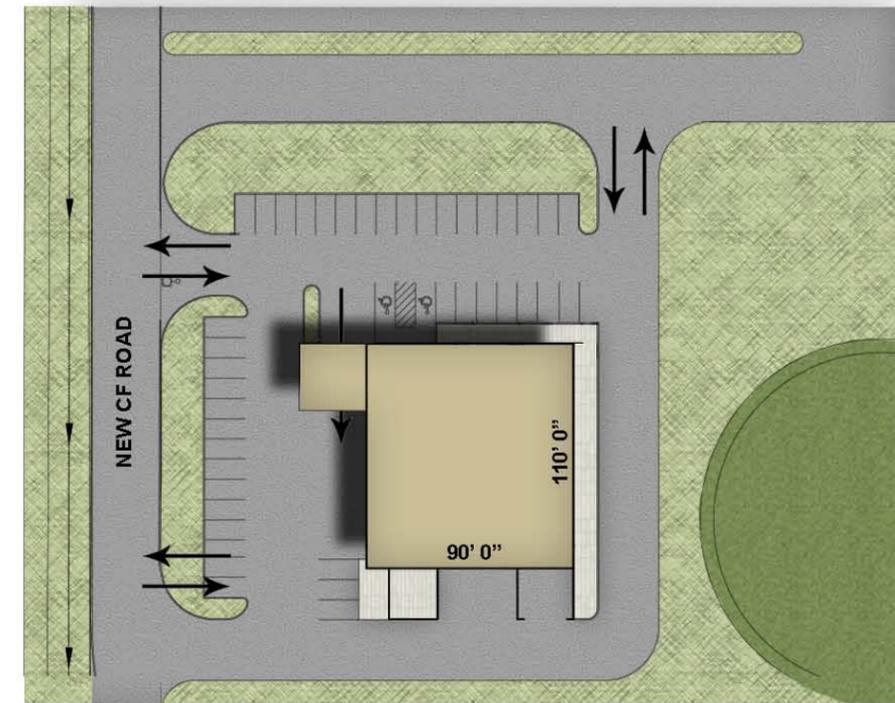


A New Design

Educational Village Campus

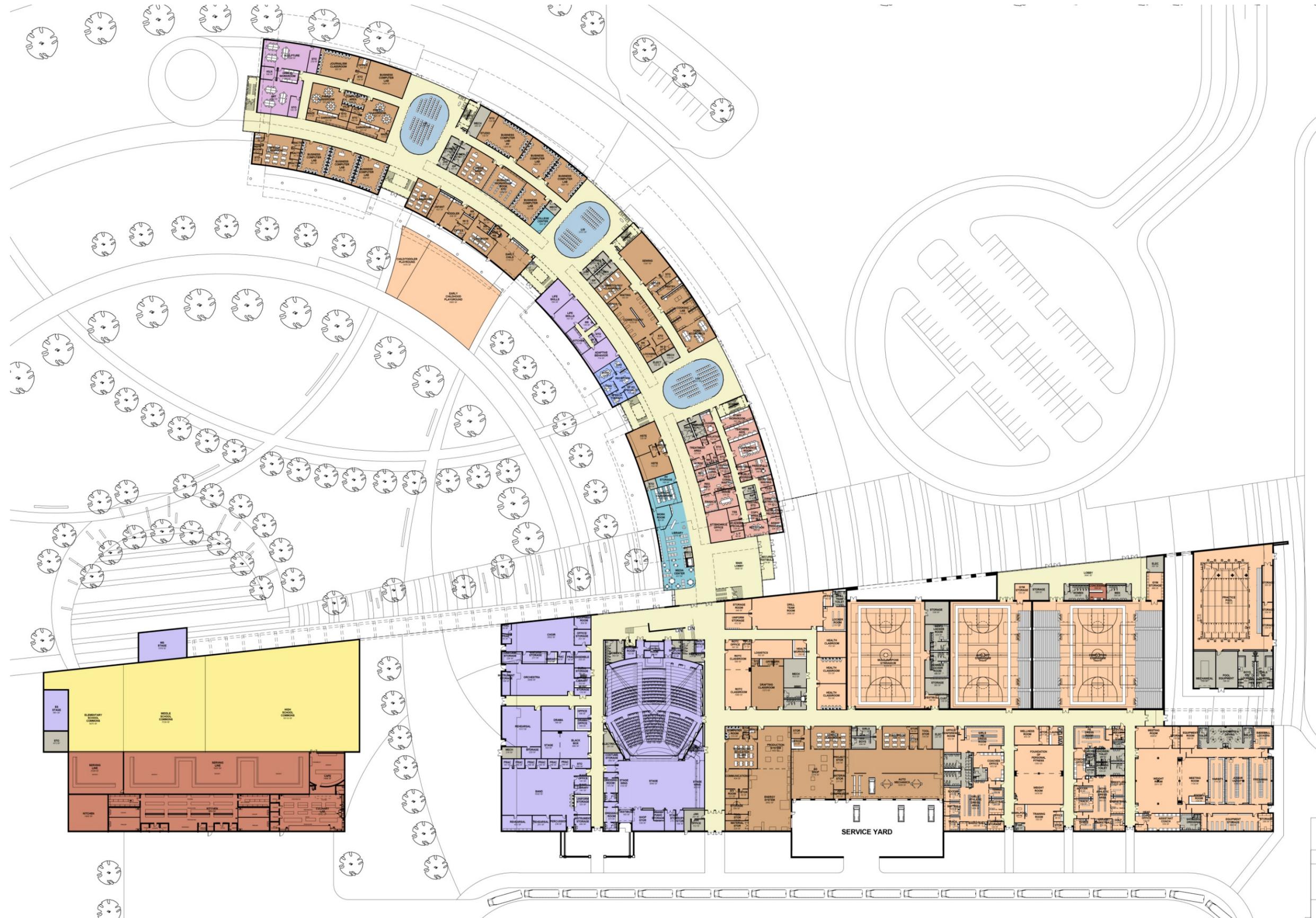


Educational Village Campus



CF HS #11 MEDICAL CENTER

1st Level Floor Plan



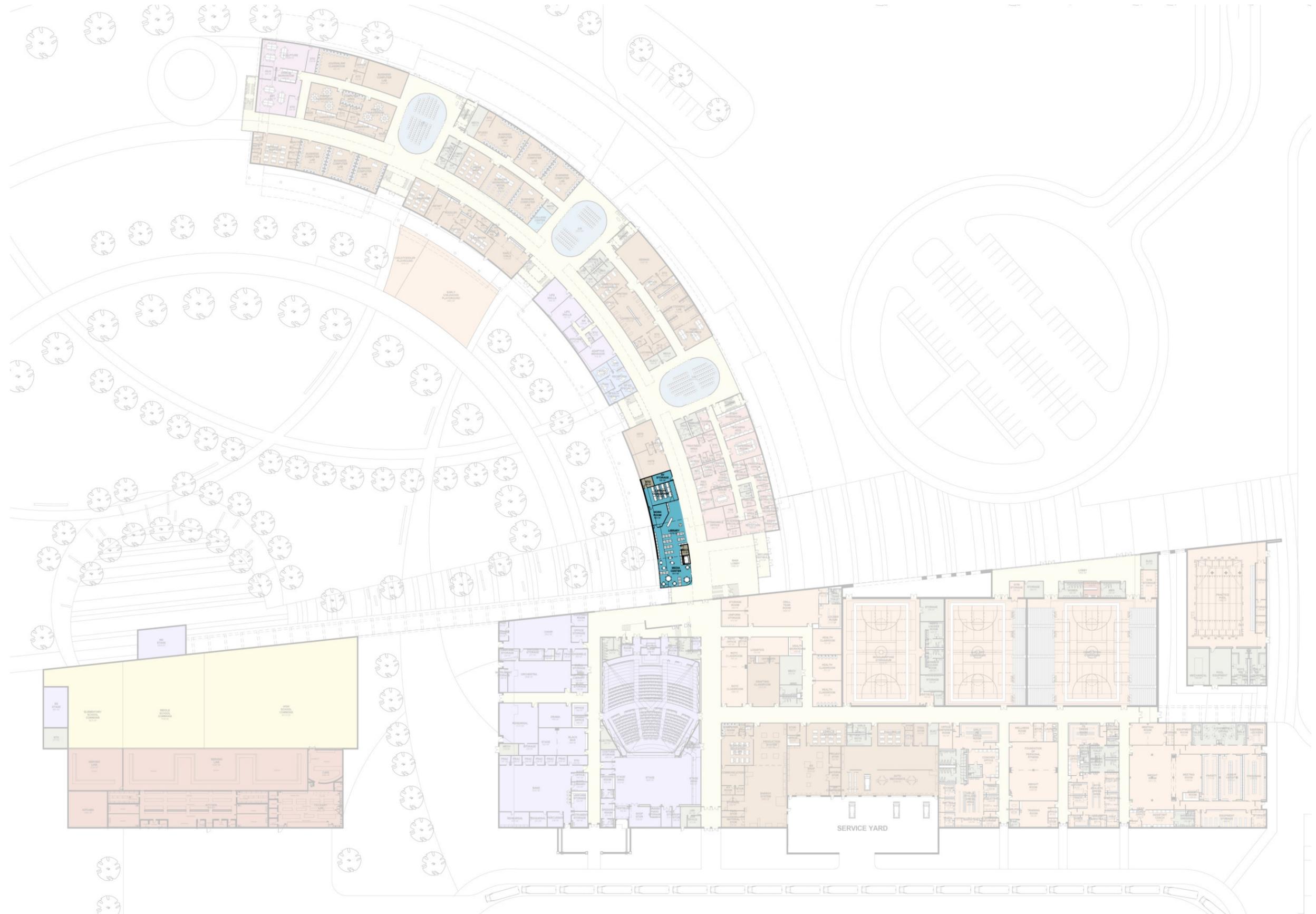
Entry Lobby Main Level View



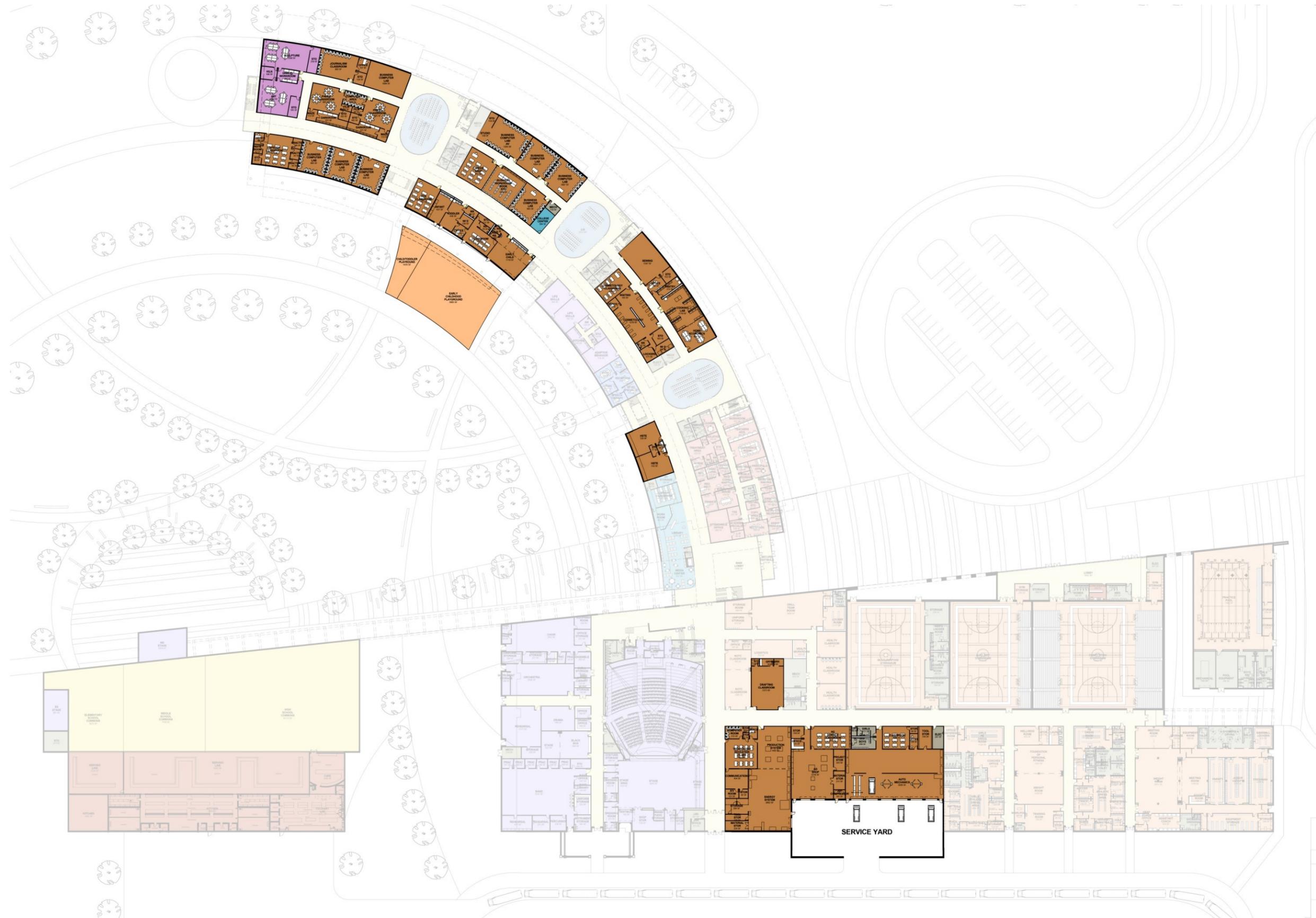
Entry Lobby Second Level View



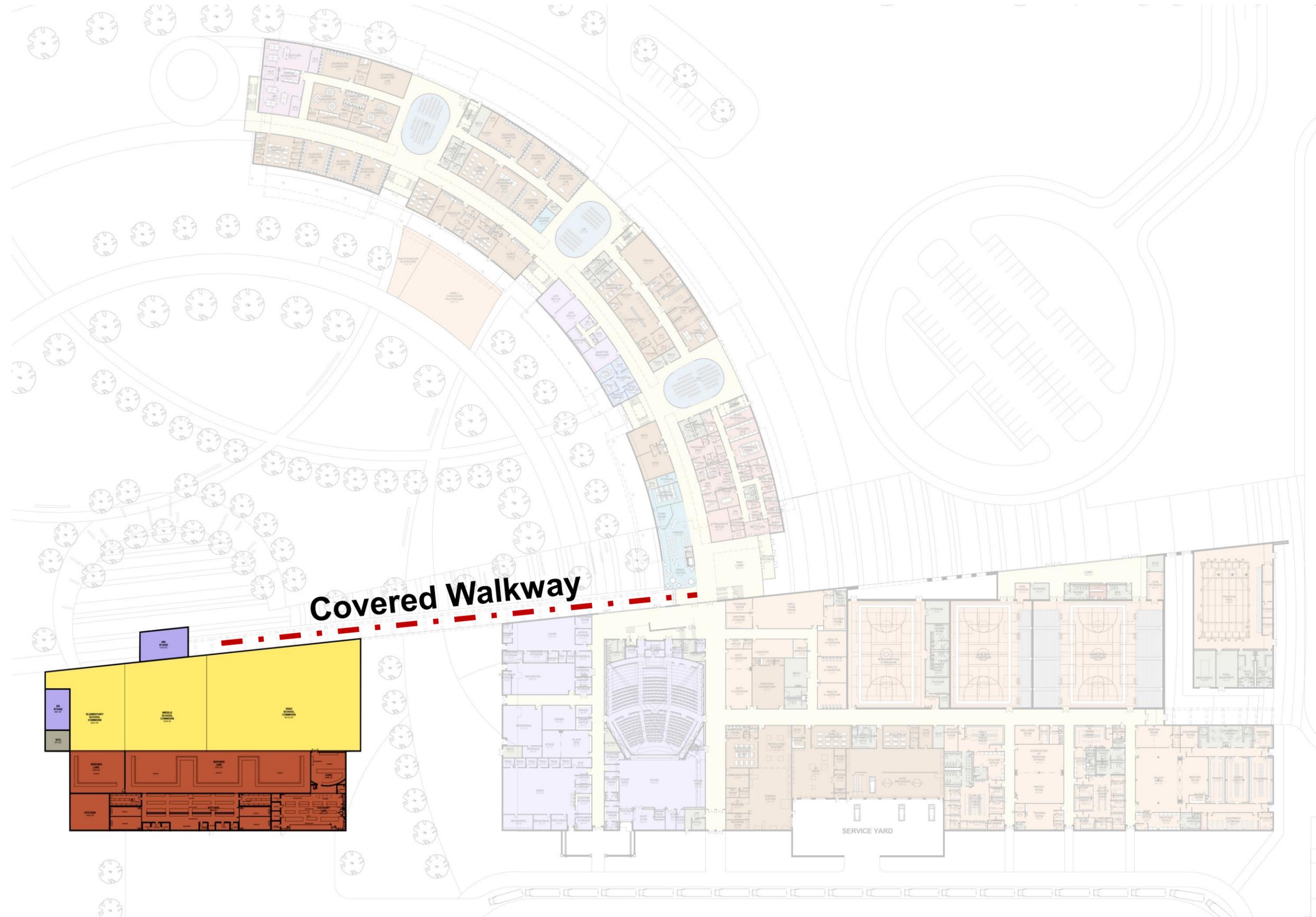
Library / Media Center



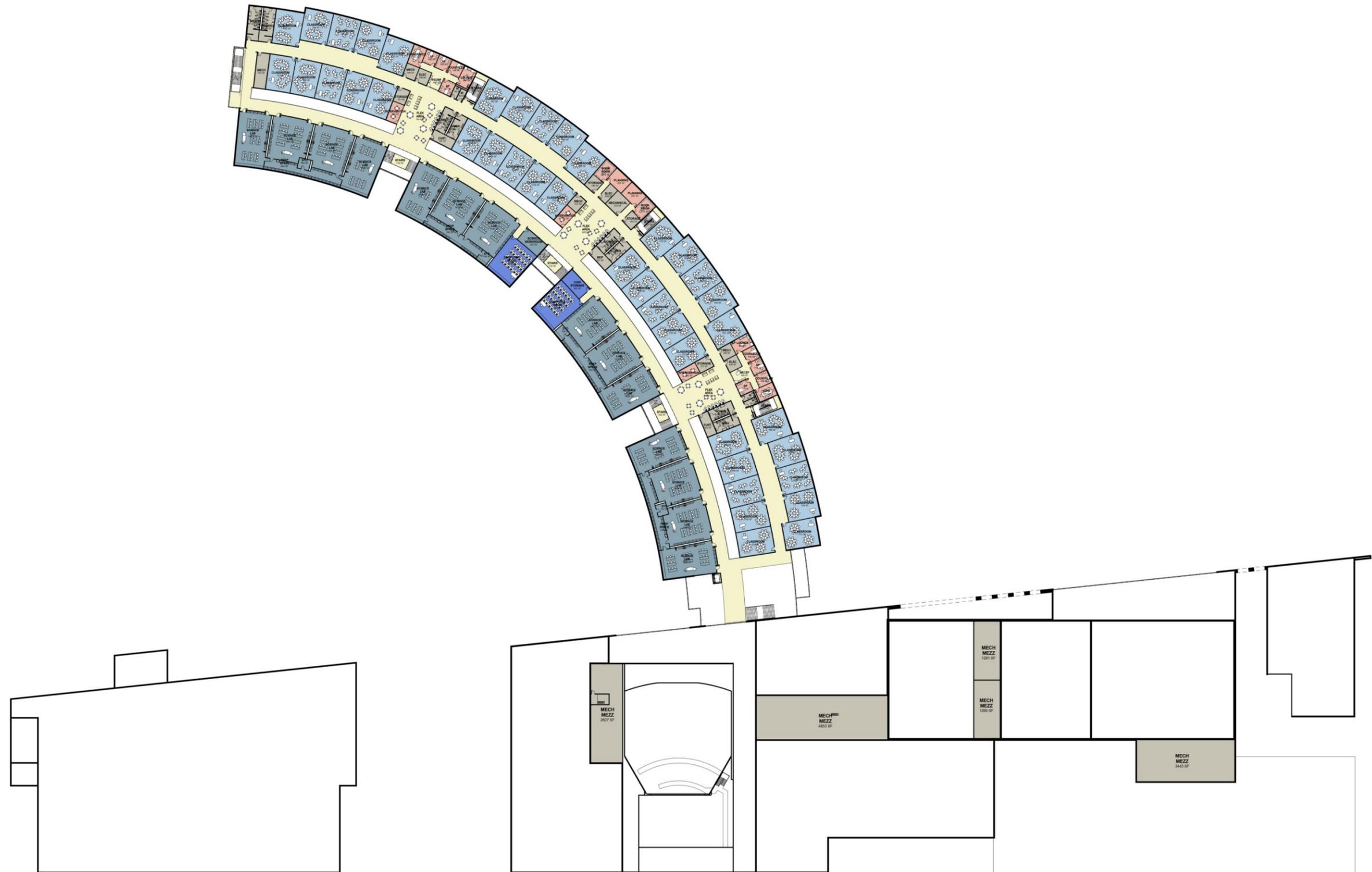
C.T.E.



Shared Commons



2nd and 3rd Level Floor Plan



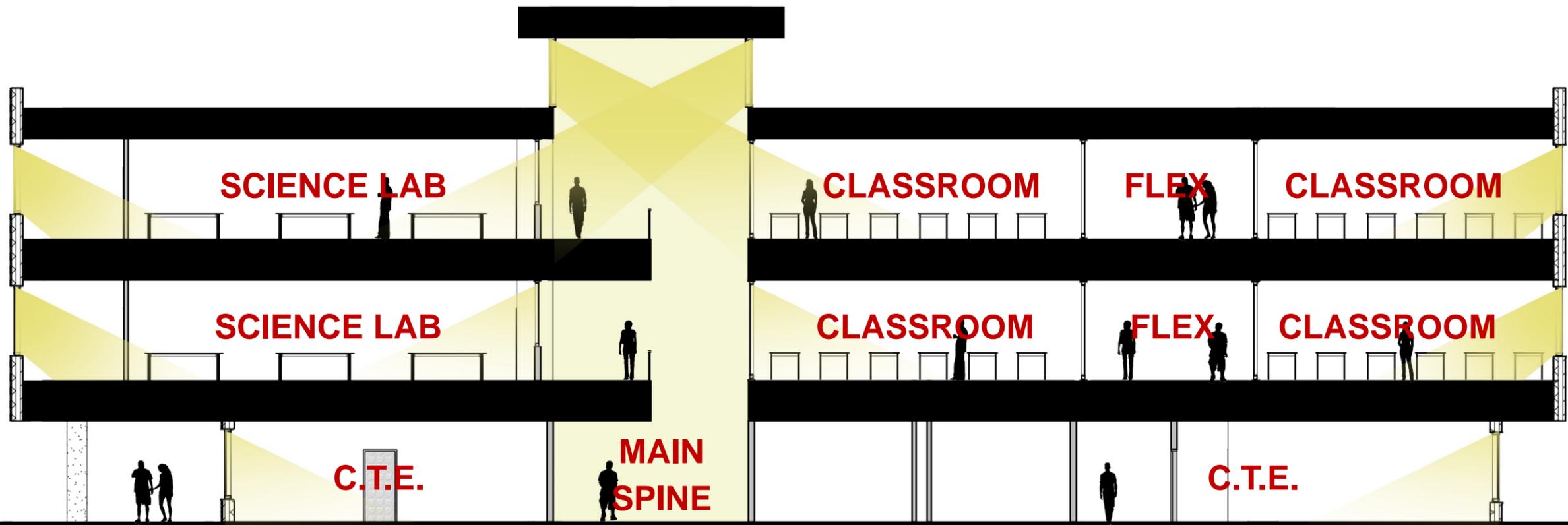
Teaching Stairs Second Level View



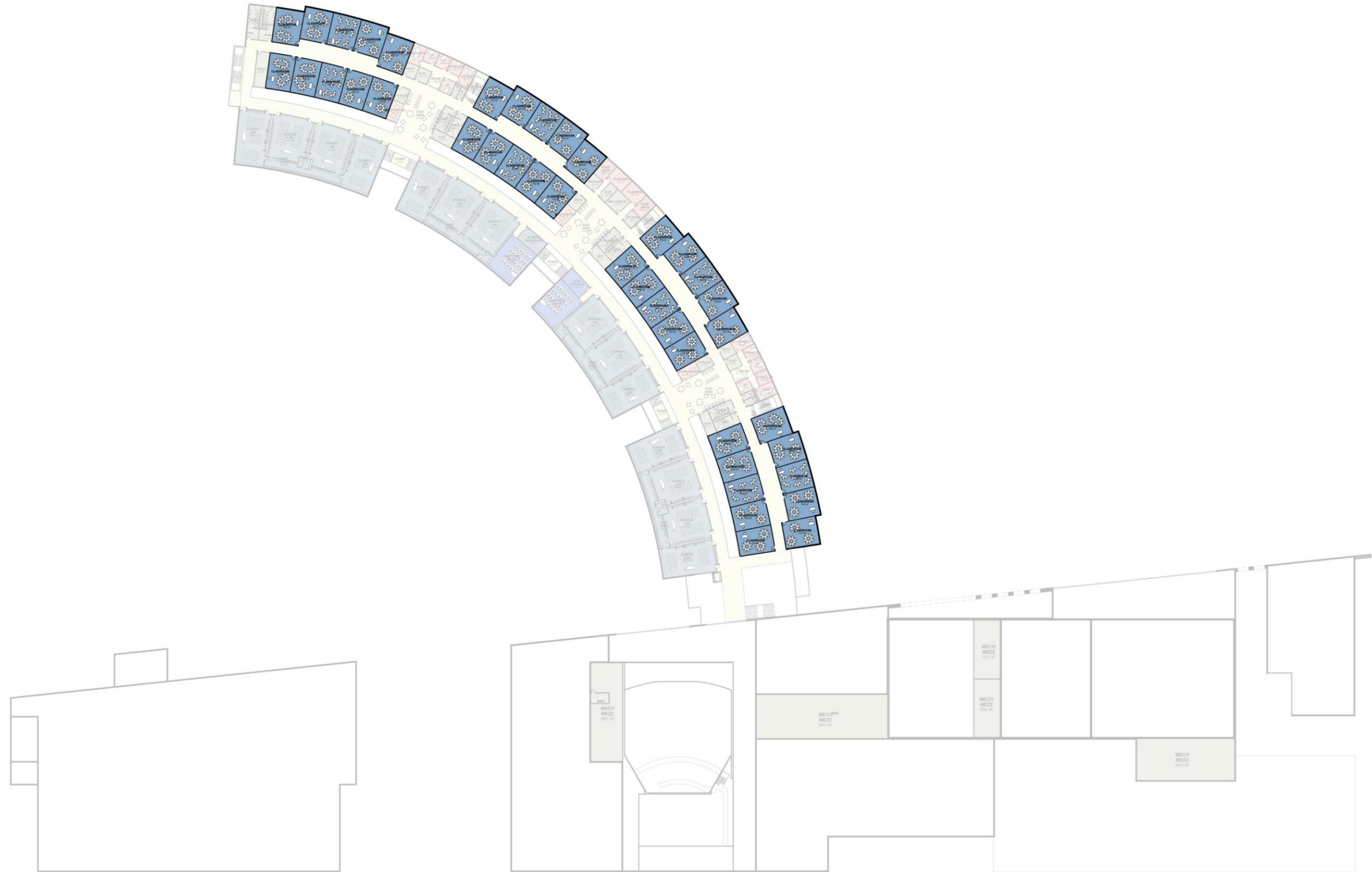
Main Spine View



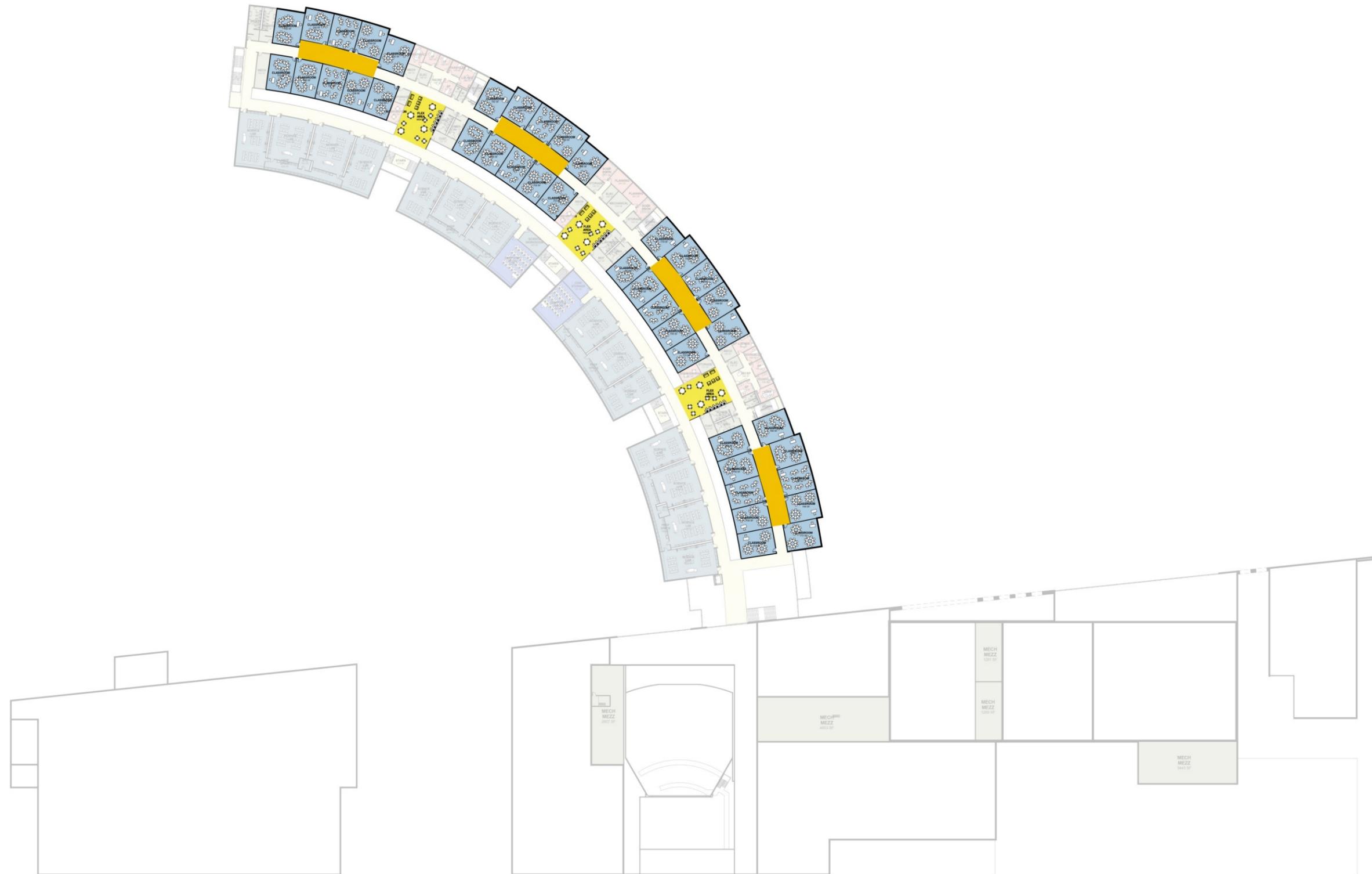
Classroom Section



Small learning Communities



S.L.C. Flex Areas



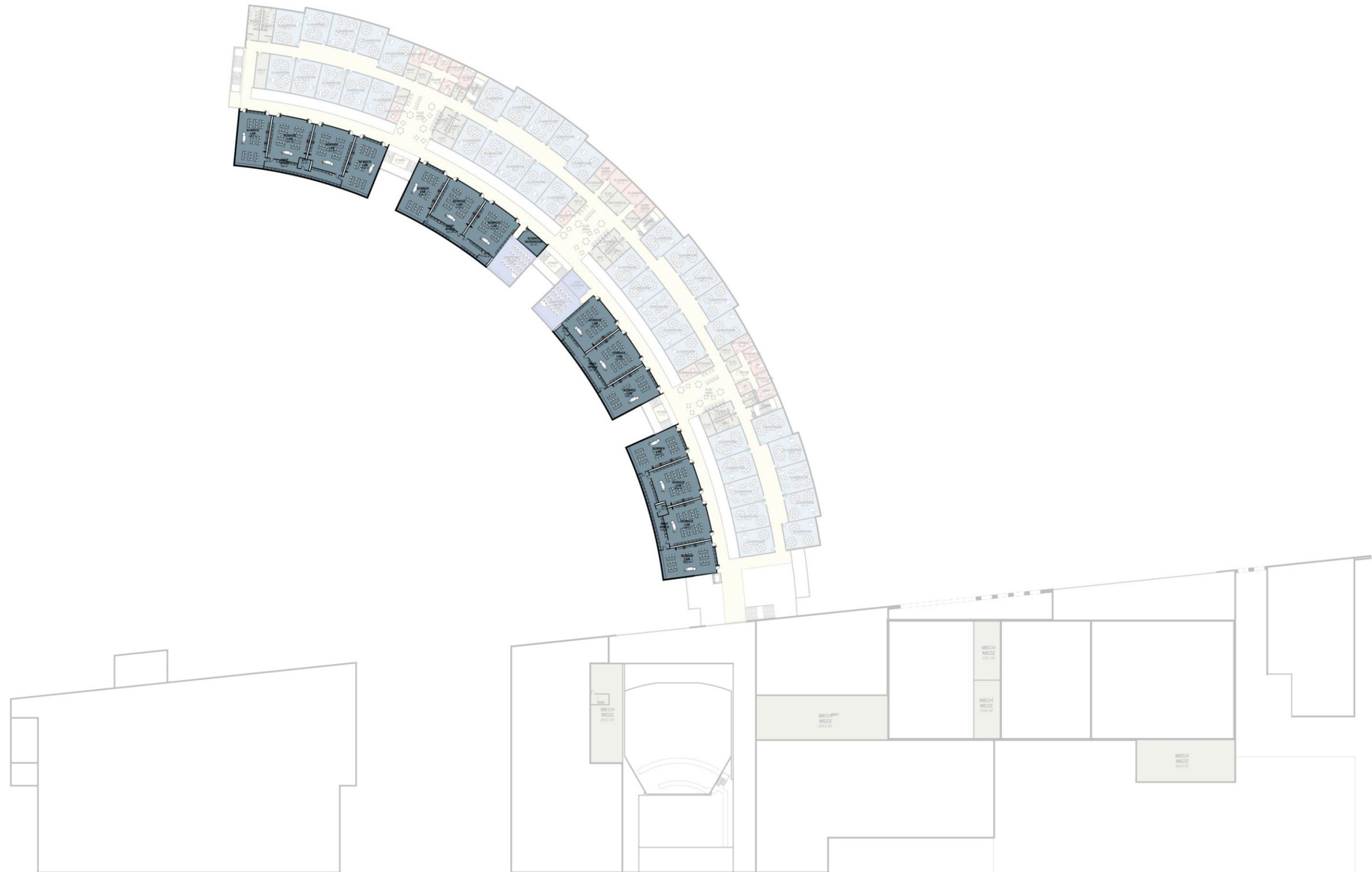
Flex Area Second Level View



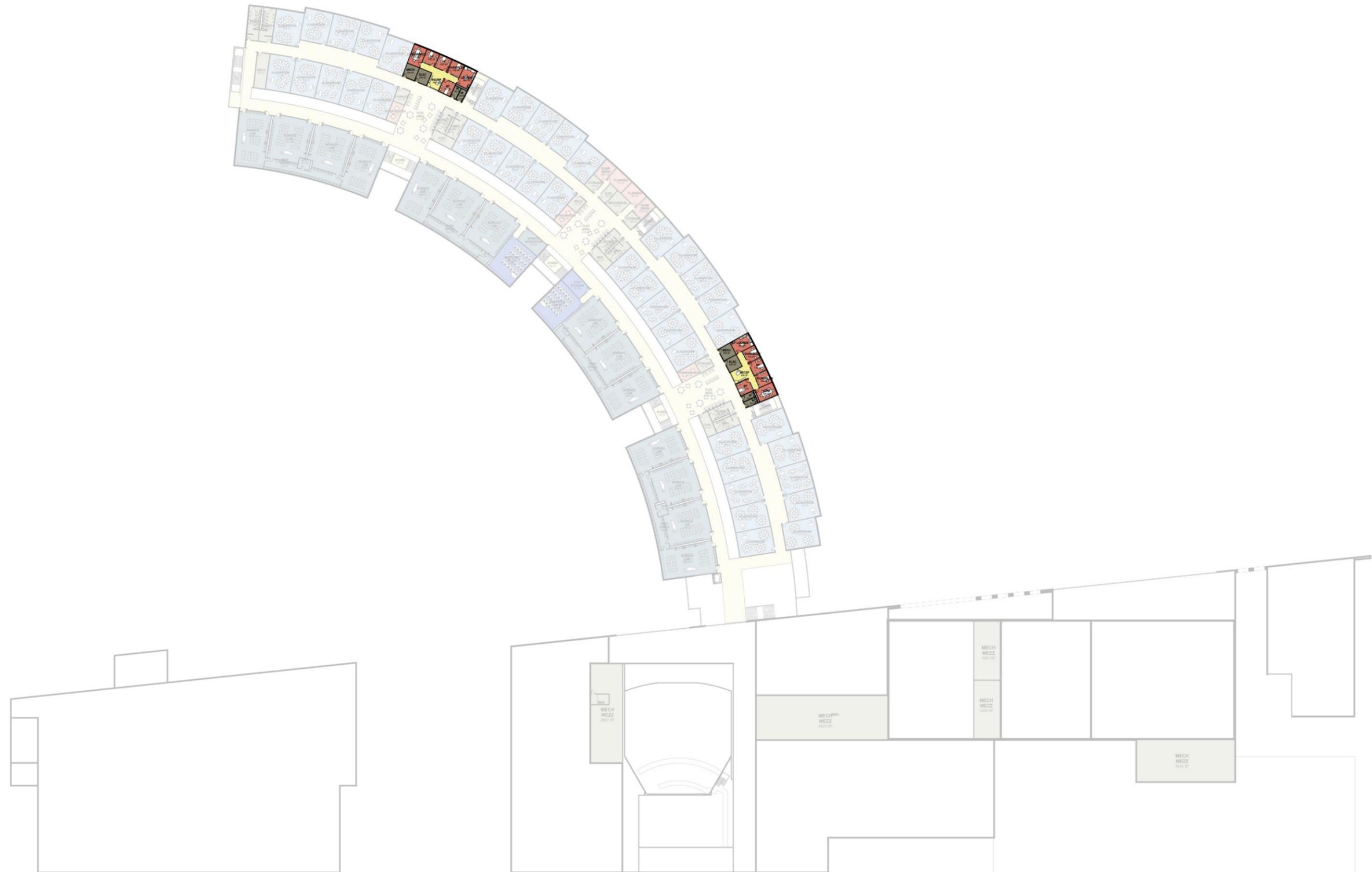
Flex Area Third Level View



Science Labs



A.P. / Counselor Suites



High School Aerial View



High School / Community Park Aerial View



High School View



High School Main Entrance View





Furniture Standards

Best Pricing, Best Quality, Best for All



Function Over Finish



Rule of the Day: Form, Function, Flexibility, Comfort





The Cemetery Effect





21st Century
Learning + Furniture

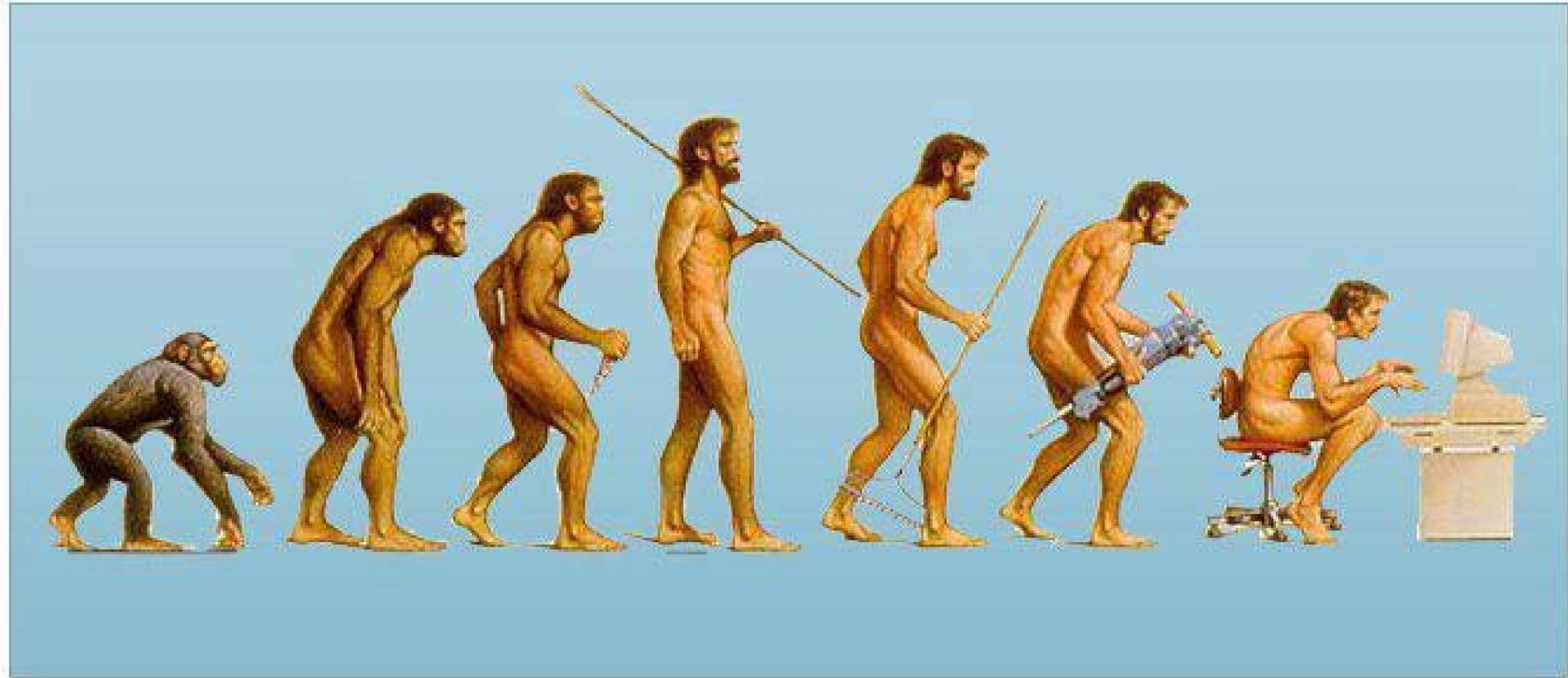
Flexibility



Functionality



Ergonomics



Aesthetics



Technology



Sustainability







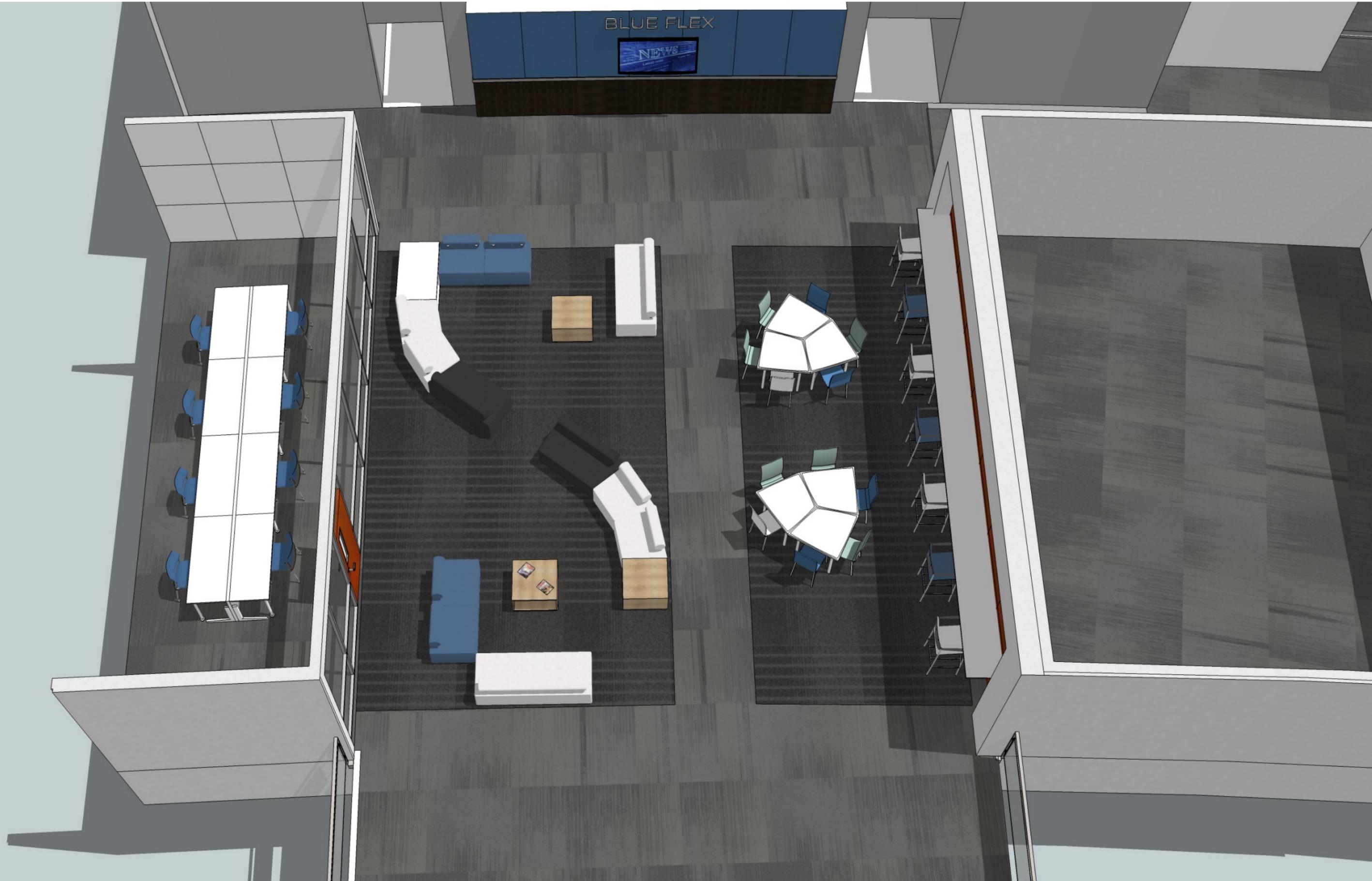






Photo Credit: Aker Imaging

Final Product















Photo Credit: Aker Imaging























Construction Views



Thank you.

CYPRESS PARK HIGH SCHOOL