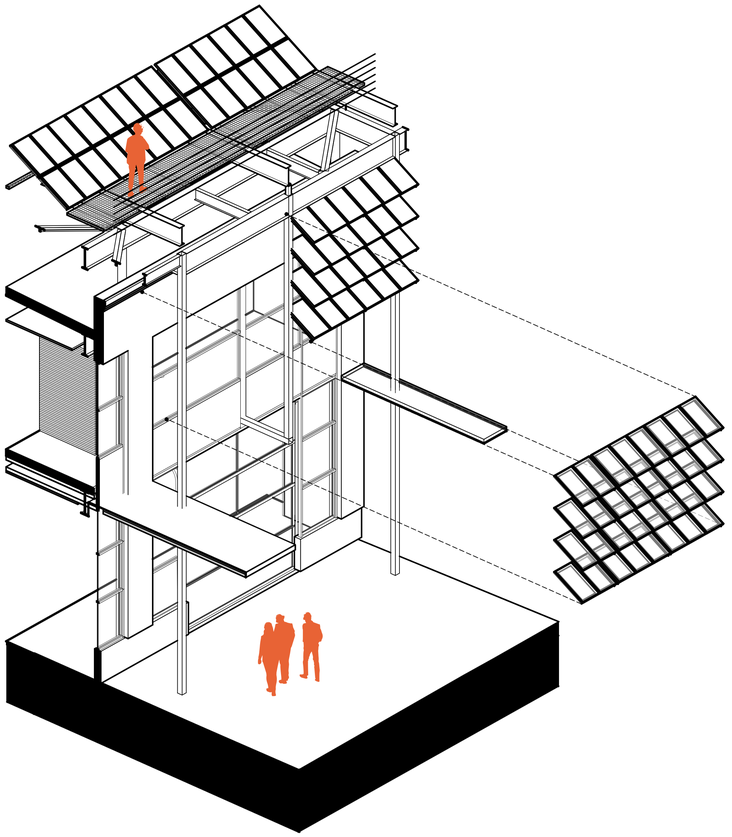
SCHEMATIC DESIGN / EXTERIORS



AXONOMETRIC OF SOLAR SHADES

OPERABLE STOREFRONT GLAZING



WOOD SOFFIT



GARAGE DOOR



GLAZING/SOCIAL STAIR AT COMMONS



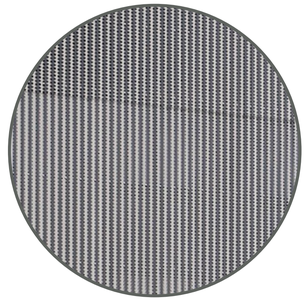
SOLAR PANELS WITH VEGETATED ROOF



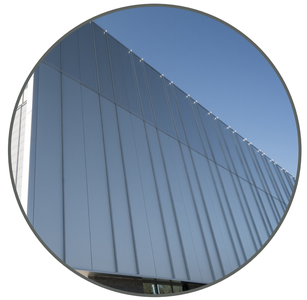
SOLAR SHADING



PERFORATED METAL PANEL

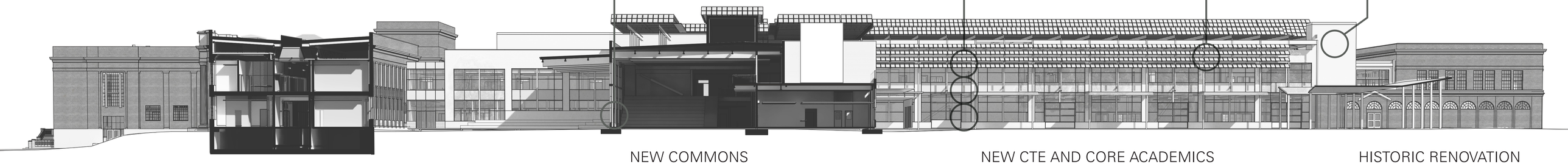


METAL PANEL



TERRA COTTA





HISTORIC RENOVATION

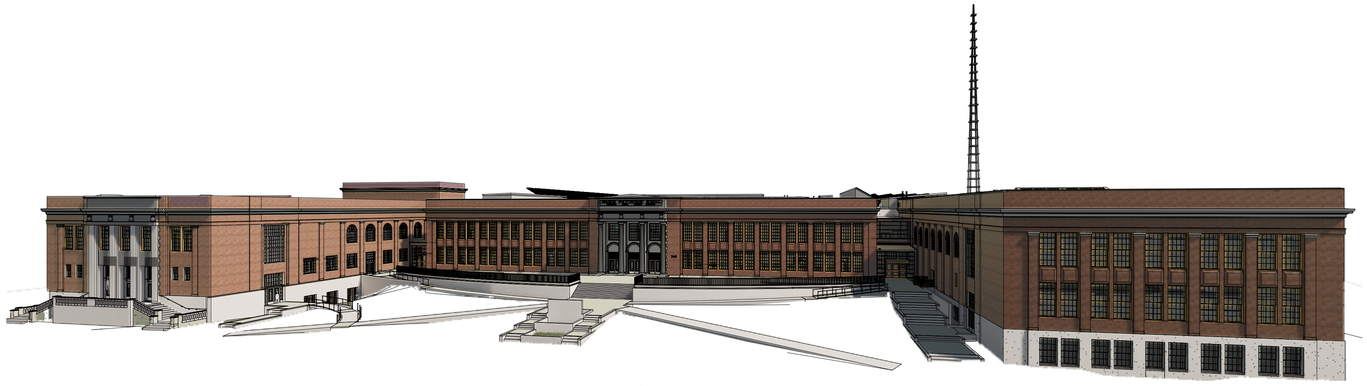
NEW COMMONS

NEW CTE AND CORE ACADEMICS

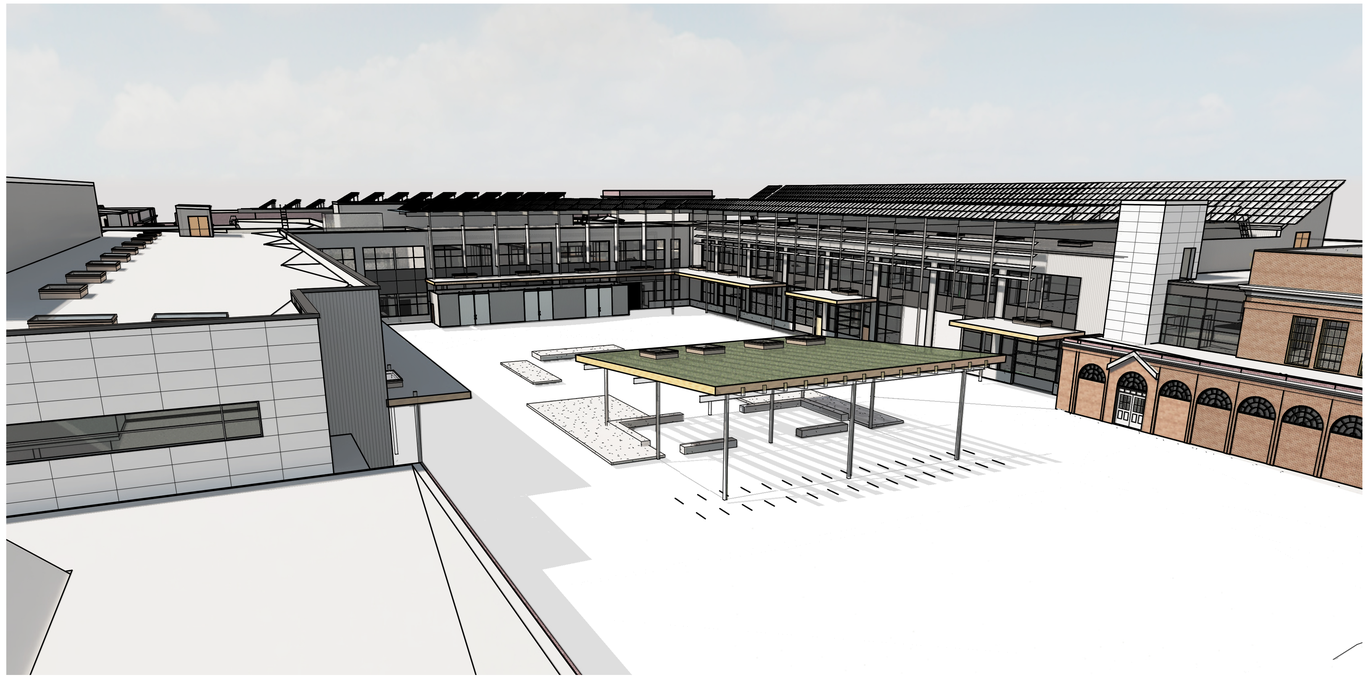
HISTORIC RENOVATION

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AERIAL VIEW OF HISTORIC BUILDINGS AT MAIN ENTRY



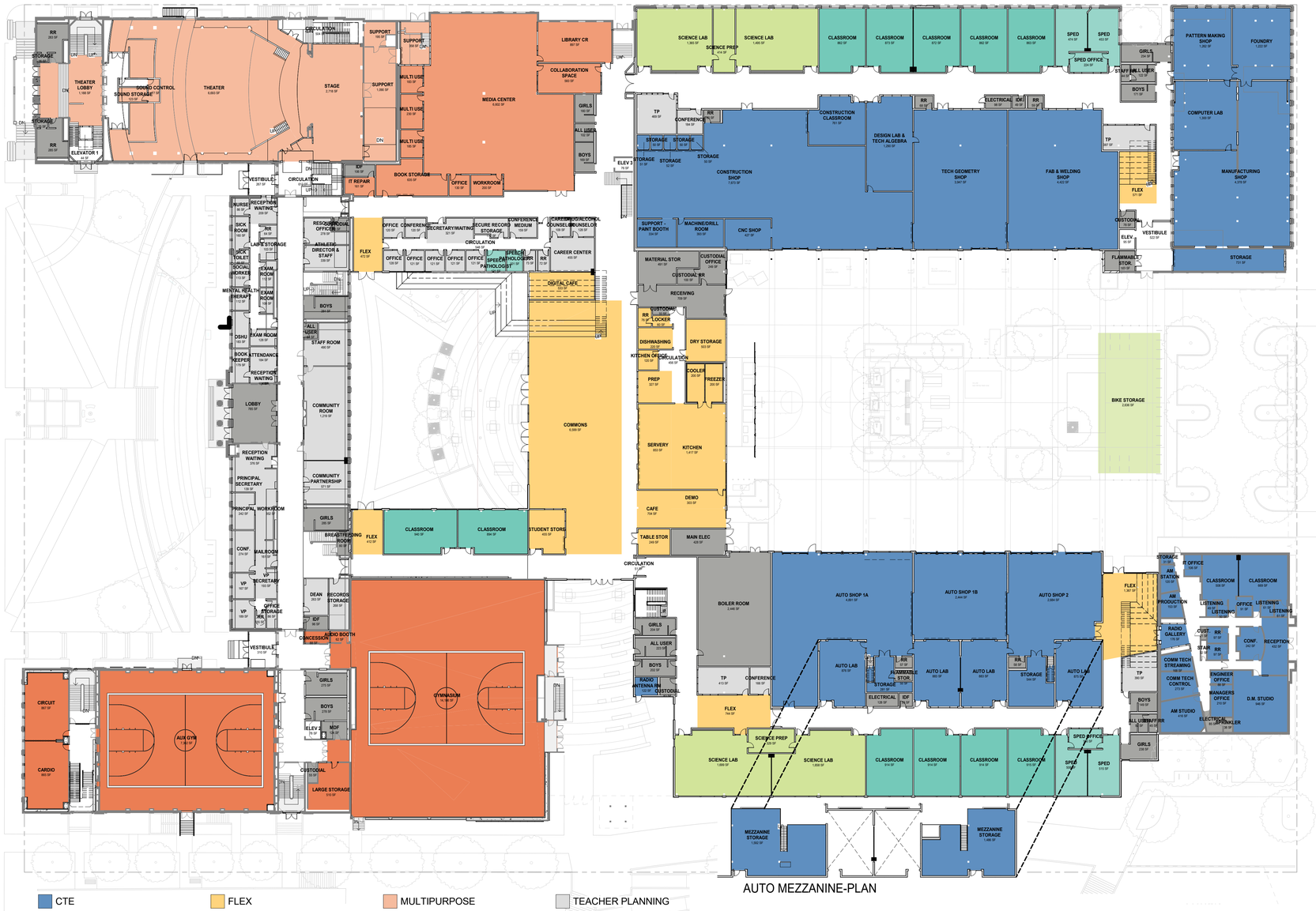
AERIAL VIEW OF BUILDINGS IN CTE COURTYARD



LOWER LEVEL (NTS)

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LEVEL 1 (NTS)

AUTO MEZZANINE-PLAN



LEVEL 2 (NTS)

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SCHEMATIC DESIGN / HISTORIC

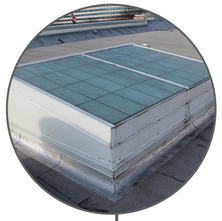
REPAIR PARAPET FLASHING

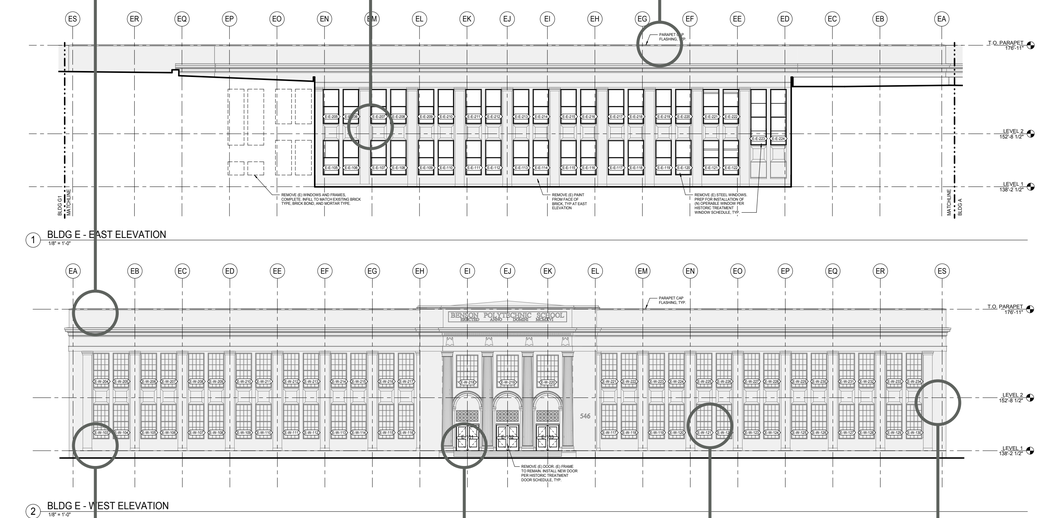


REMOVE PAINT AND REPLACE WINDOWS



REPAIR OR REPLACE SKYLIGHTS





CLEAN & REPAIR CONCRETE BASE AND BRICK



REPLACE NON-HISTORIC DOORS



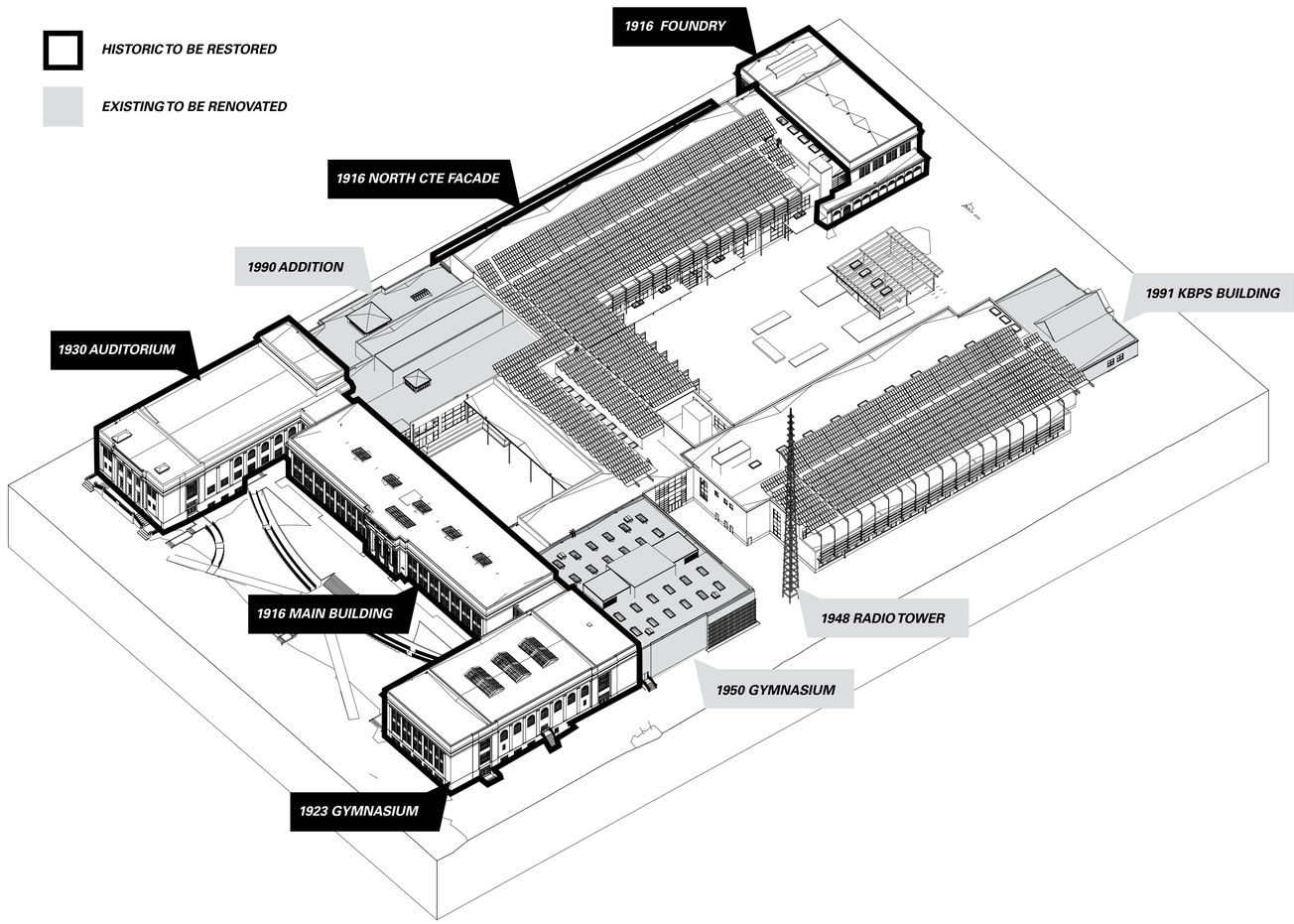
REPAIR OR REPLACE WINDOWS



REPAIR DETERIORATED MORTAR

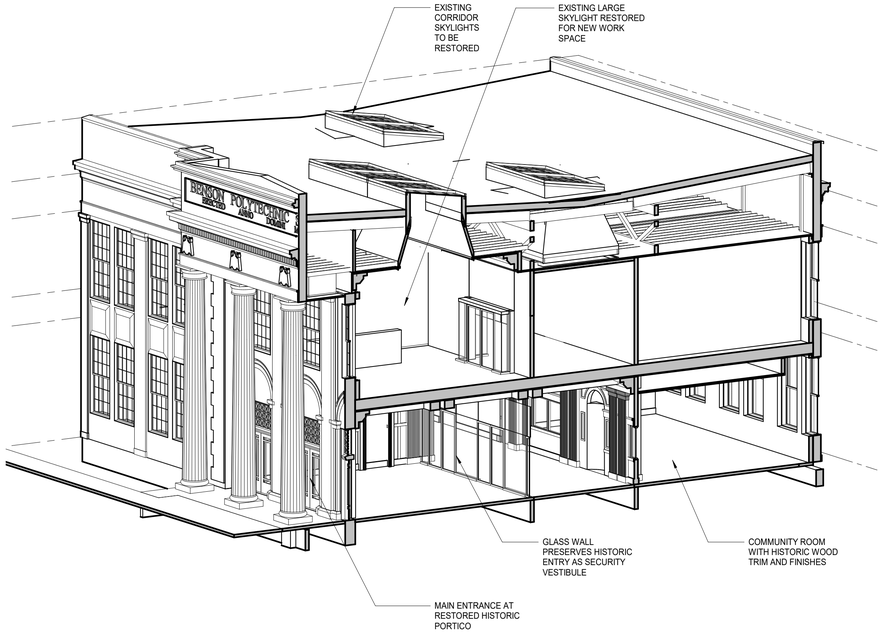


RESTORATION AND RENOVATION

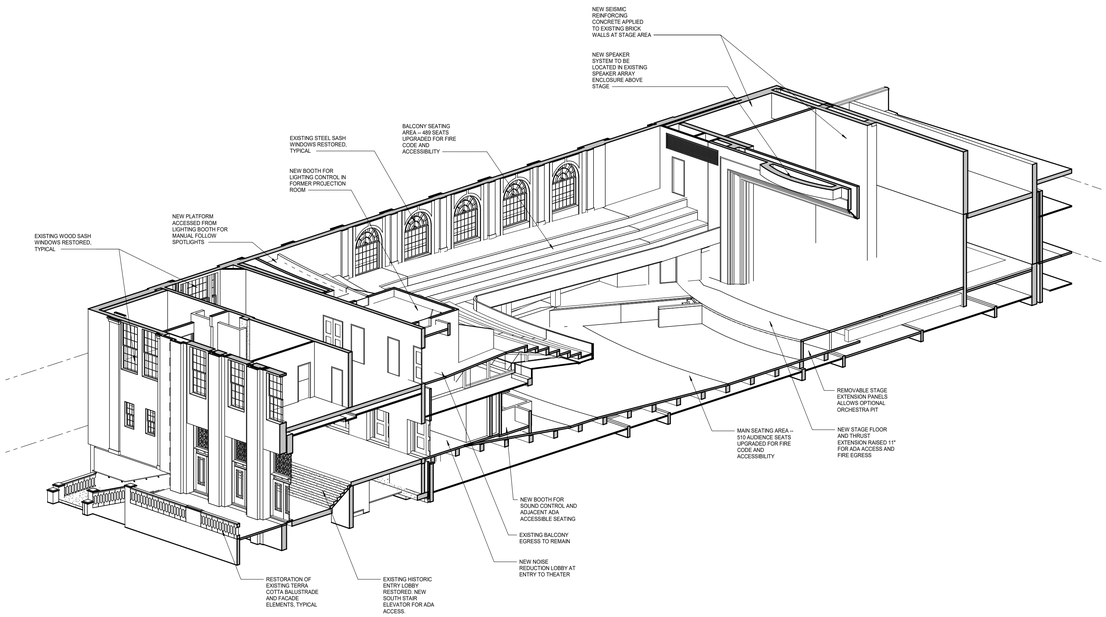


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SCHEMATIC DESIGN / HISTORIC



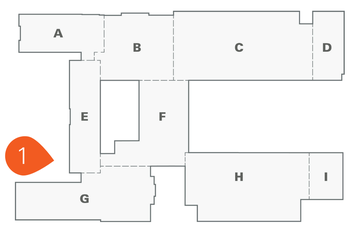
MAIN BUILDING INTERIOR RESTORATION



THEATER RESTORATION AND ADDITIONS



1 FRONT OF BUILDING WITH NEW VESTIBULE



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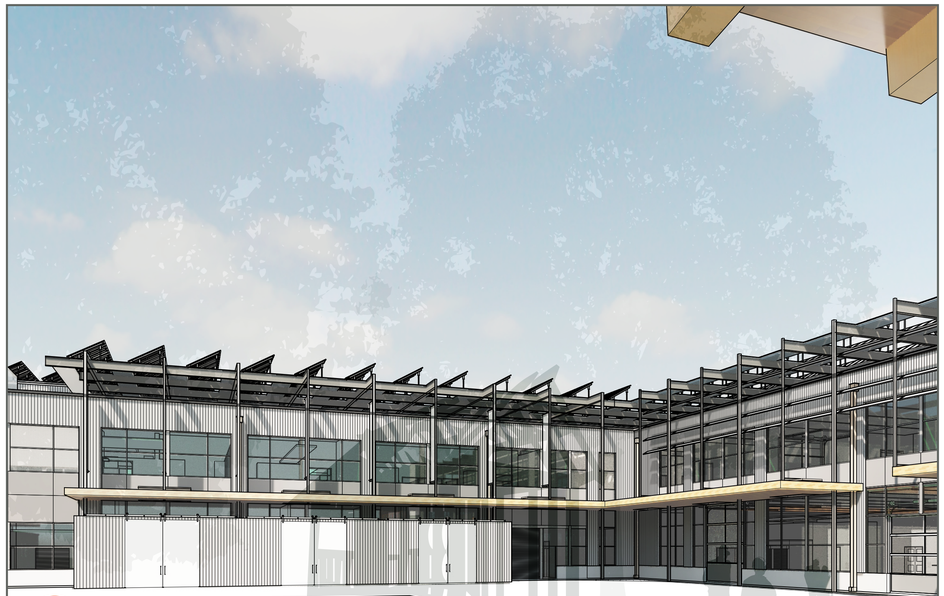
SCHEMATIC DESIGN / EXTERIORS



1 NORTH WING FROM CTE COURTYARD



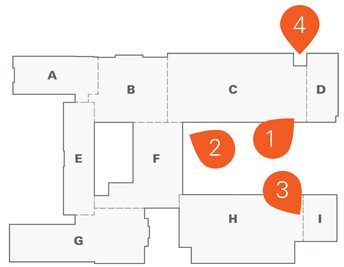
2 SOUTH WING FROM CTE COURTYARD



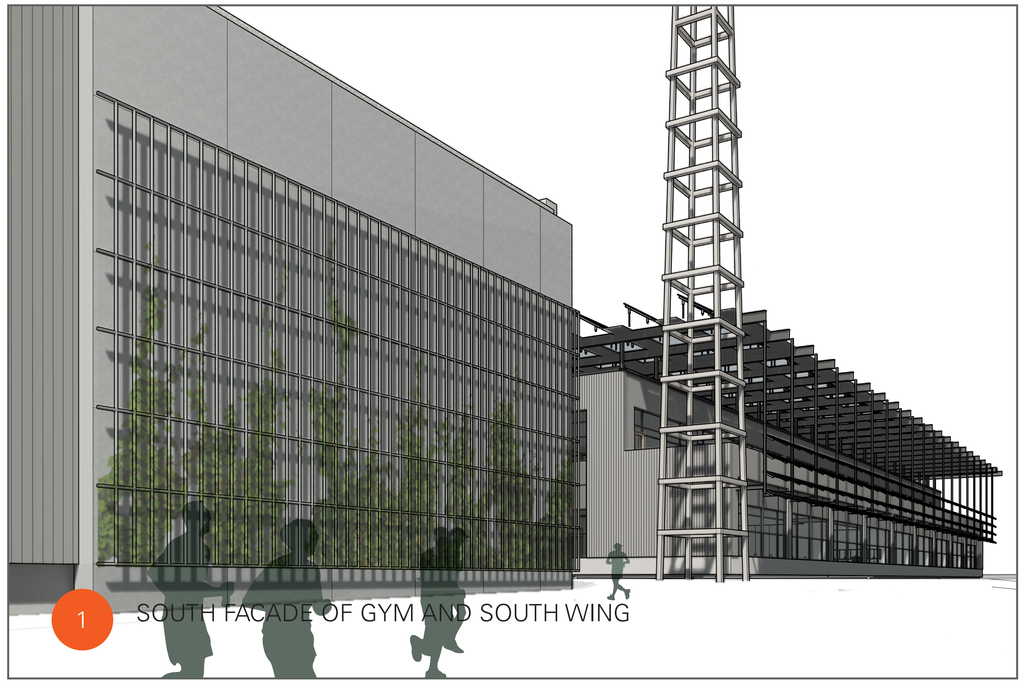
3 EAST FACADE FROM CTE COURTYARD



4 NORTH ELEVATION FROM NE IRVING ST.



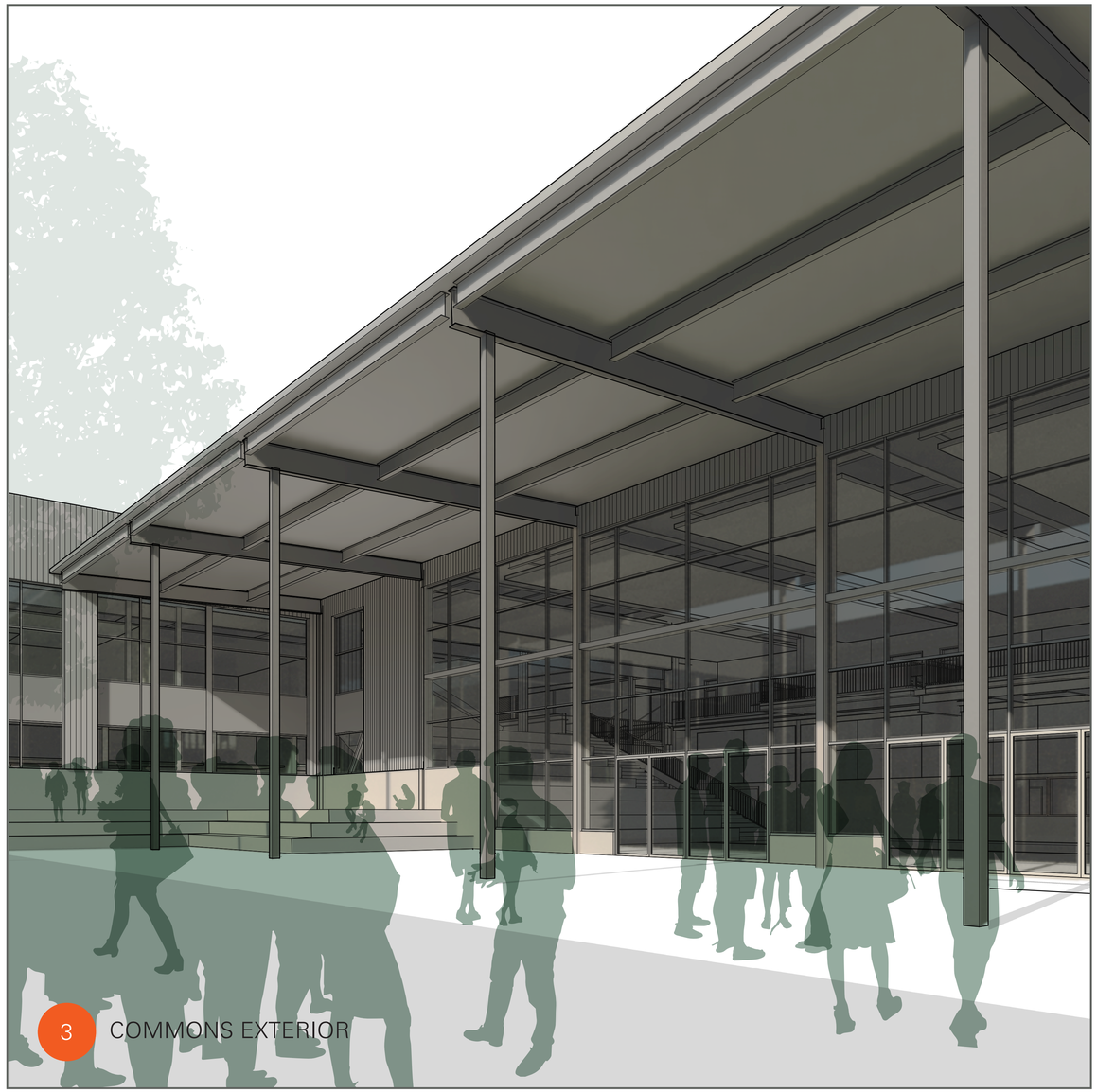
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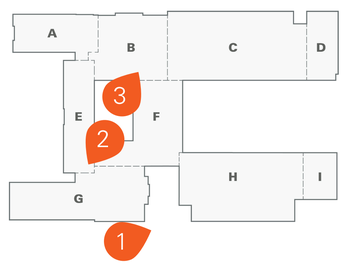
1 SOUTH FACADE OF GYM AND SOUTH WING



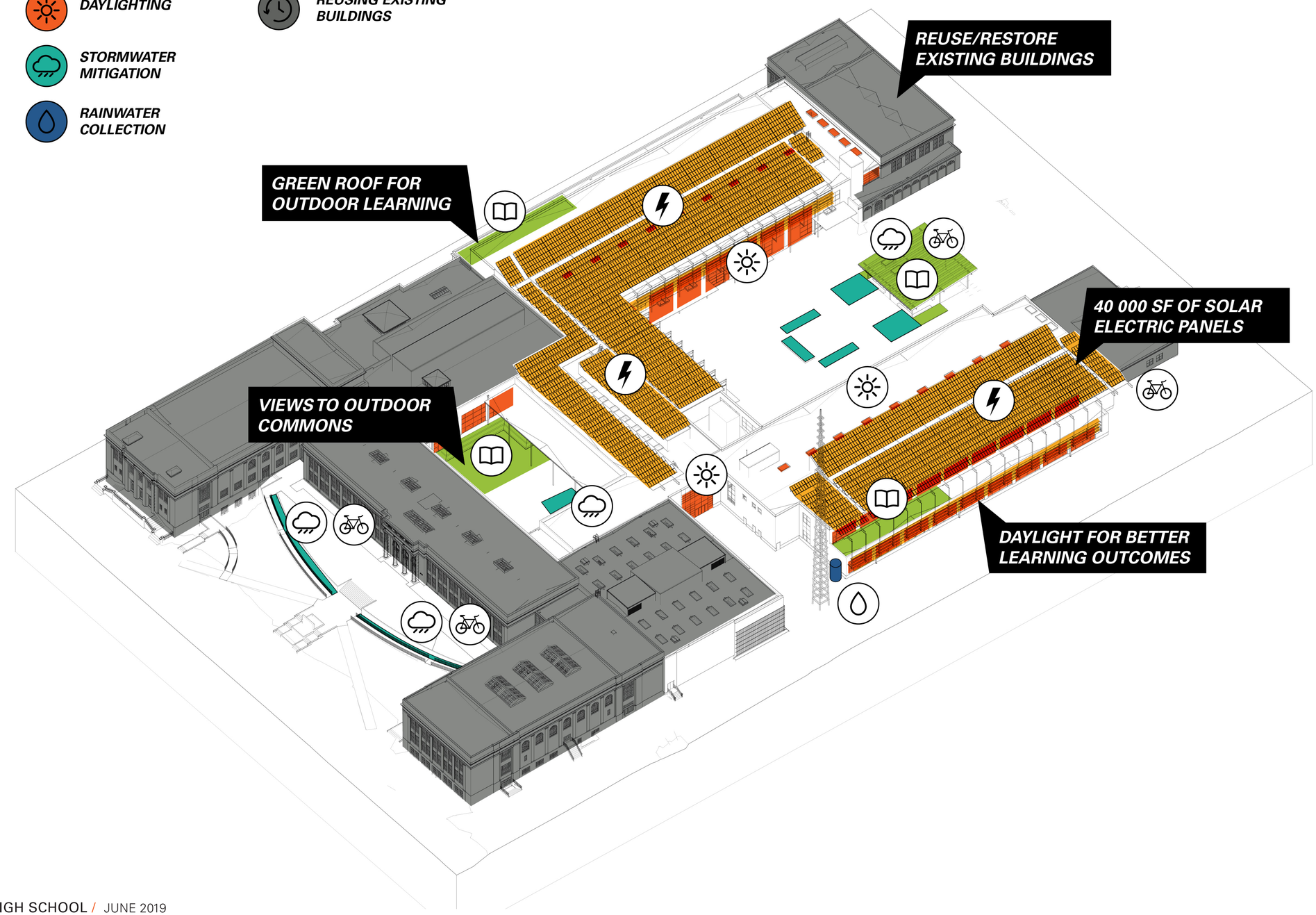
2 NEW ADDITION AT SOCIAL COURTYARD



3 COMMONS EXTERIOR

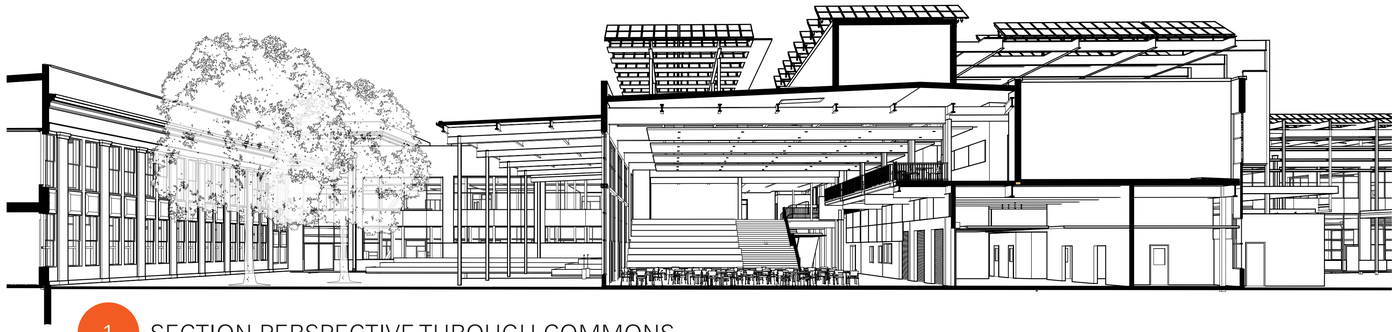


- SOLAR ELECTRIC PANELS
- DAYLIGHTING
- STORMWATER MITIGATION
- RAINWATER COLLECTION
- OUTDOOR CLASSROOMS
- REUSING EXISTING BUILDINGS



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1 SECTION PERSPECTIVE THROUGH COMMONS

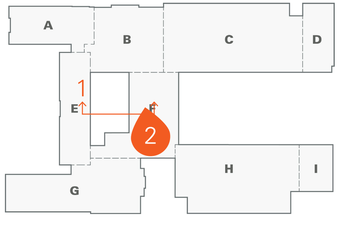


2 COMMONS

INSPIRATIONAL IMAGERY







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2 SECTION PERSPECTIVE THROUGH NORTH WING FLEX



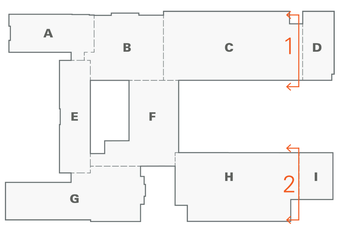
2 SECTION PERSPECTIVE THROUGH SOUTH WING FLEX

INSPIRATIONAL IMAGERY



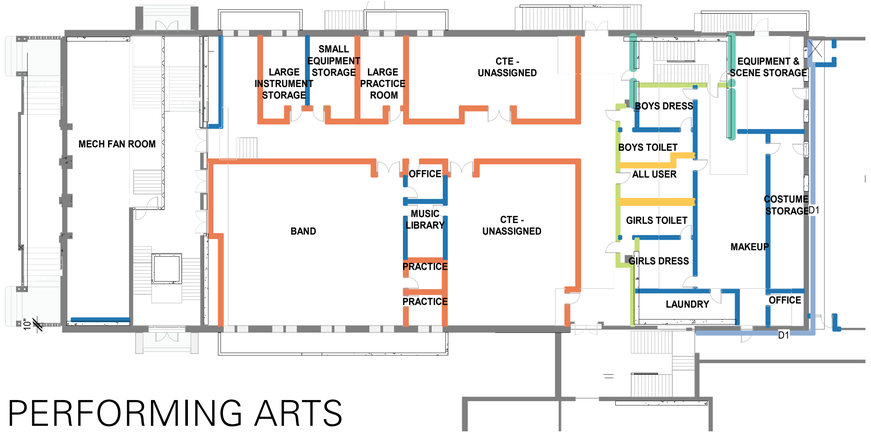




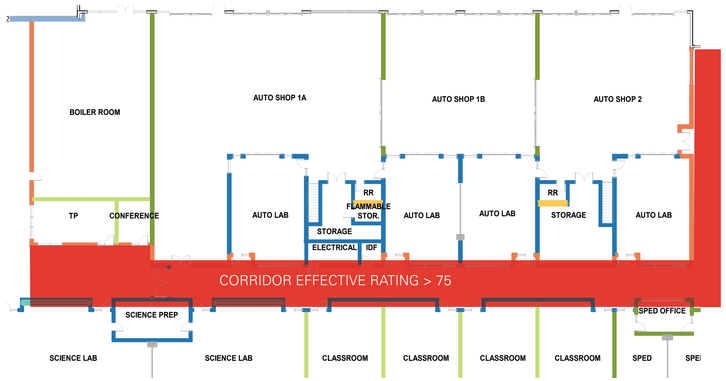


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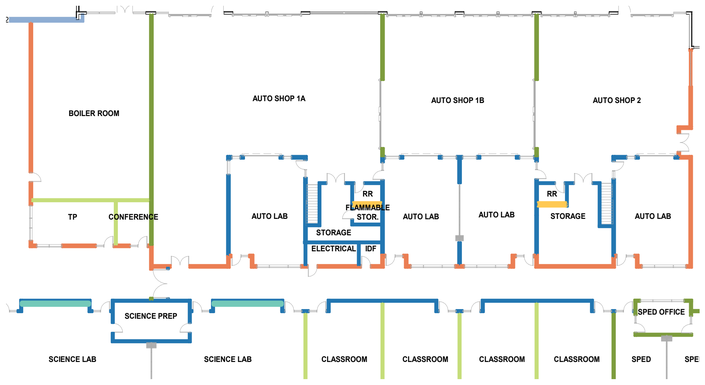
SCHEMATIC DESIGN / ACOUSTICS



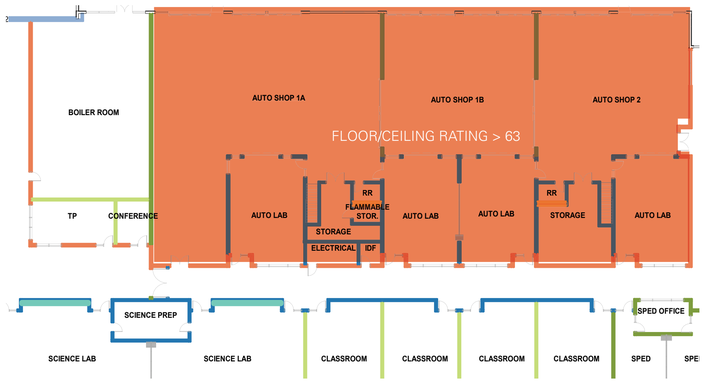
PERFORMING ARTS



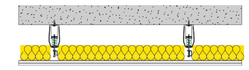
CORRIDORS



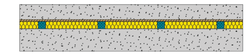
TYPICAL CTE SPACES



OPTION 1: SLAB WITH ISOLATED CEILING
STC 63 - 84



OPTION 2: DOUBLE SLAB WITH INSULATION
STC 72

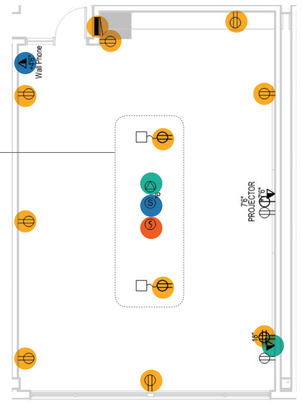


CTE FLOOR ASSEMBLIES

STC	What can be heard
25	Normal speech can be understood quite easily and distinctly through wall[citation needed]
30	Loud speech can be understood fairly well, normal speech heard but not understood[citation needed]
35	Loud speech audible but not intelligible[citation needed]
40	Onset of "privacy"[according to whom?]
42	Loud speech audible as a murmur[citation needed]
45	Loud speech not audible; 90% of statistical population not annoyed[citation needed]
50	Very loud sounds such as musical instruments or a stereo can be faintly heard; 99% of population not annoyed.[citation needed]
60+	Good soundproofing; most sounds do not disturb neighbouring residents.[14]

STC 45
STC 52
STC 50
STC 52 - 65

TYPICAL CLASSROOM



PLAN (NTS)



IP WALL PHONE



DATA IN



DISTRIBUTION PANEL



RECEPTACLES



RECEPTACLE ON CORD REEL

DATA/ INTERNET

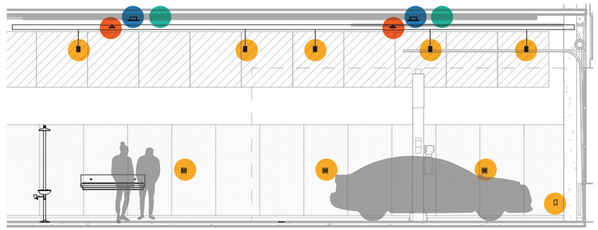
POWER

COMMUNICATION

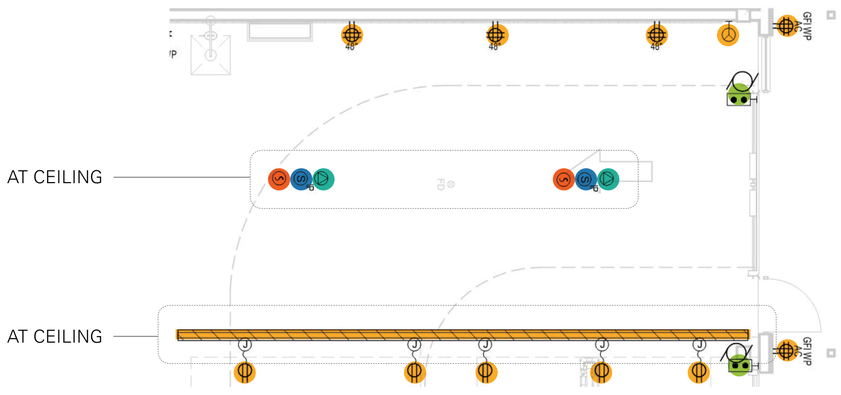
FIRE SAFETY

OPERATIONS

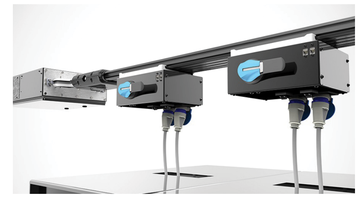
TYPICAL CTE SPACE - AUTO SHOP



SECTION (NTS)



PLAN (NTS)



BUSBAR



RECEPTACLE ON CORD REEL



WIRELESS ACCESS POINT



SMOKE DETECTOR



IP SPEAKER



DUPLEX RECEPTACLE



QUADPLEX RECEPTACLE



OVERHEAD DOOR PUSHBUTTON

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SCHEMATIC DESIGN / MECHANICAL SYSTEMS



1. CHILLED BEAMS
In new classrooms and administration spaces



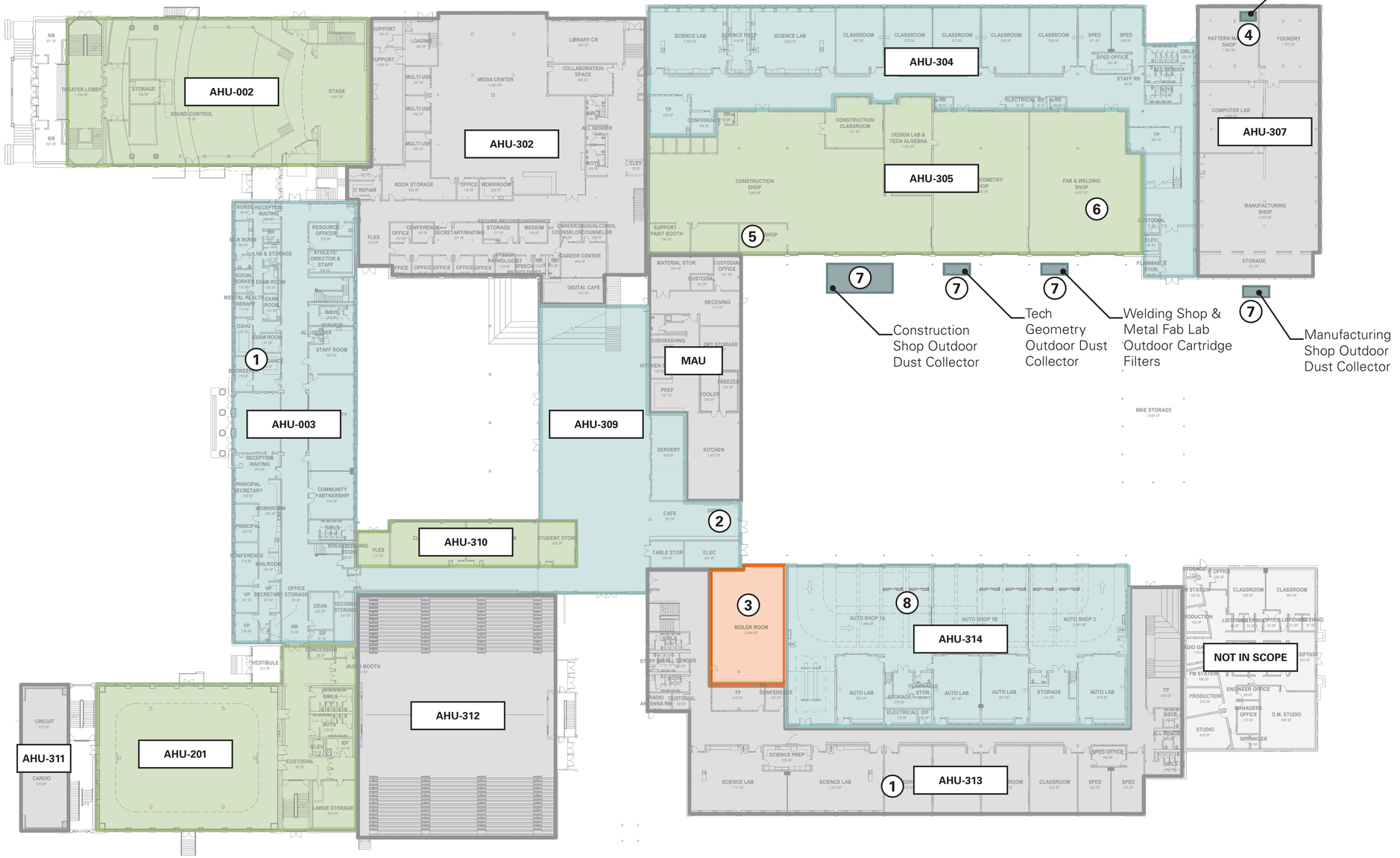
2. COOLING TOWER ON ROOF

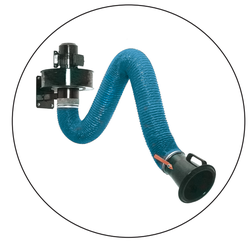


3. NEW MECHANICAL ROOM
Replacing existing steam system/no cooling with new high efficiency heating water boiler and chiller system



4. INDOOR DUST COLLECTOR





5. EXTRACTION ARM FOR FUME EXHAUST
Various locations such as soldering stations and metal CNC machines



6. WELDING HOODS

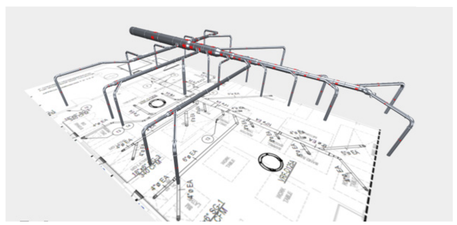


7. OUTDOOR DUST COLLECTOR

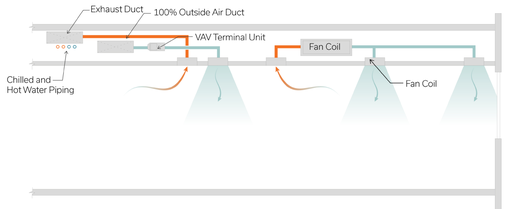


8. HOSE REELS FOR VEHICLE EXHAUST

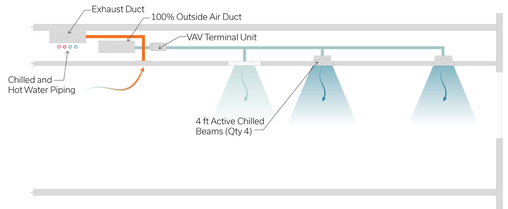
DUST COLLECTION DUCTWORK



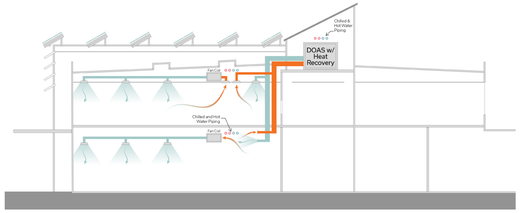
EXISTING CLASSROOMS: HEATING, COOLING, & VENTILATION



NEW CLASSROOMS: HEATING, COOLING, & VENTILATION



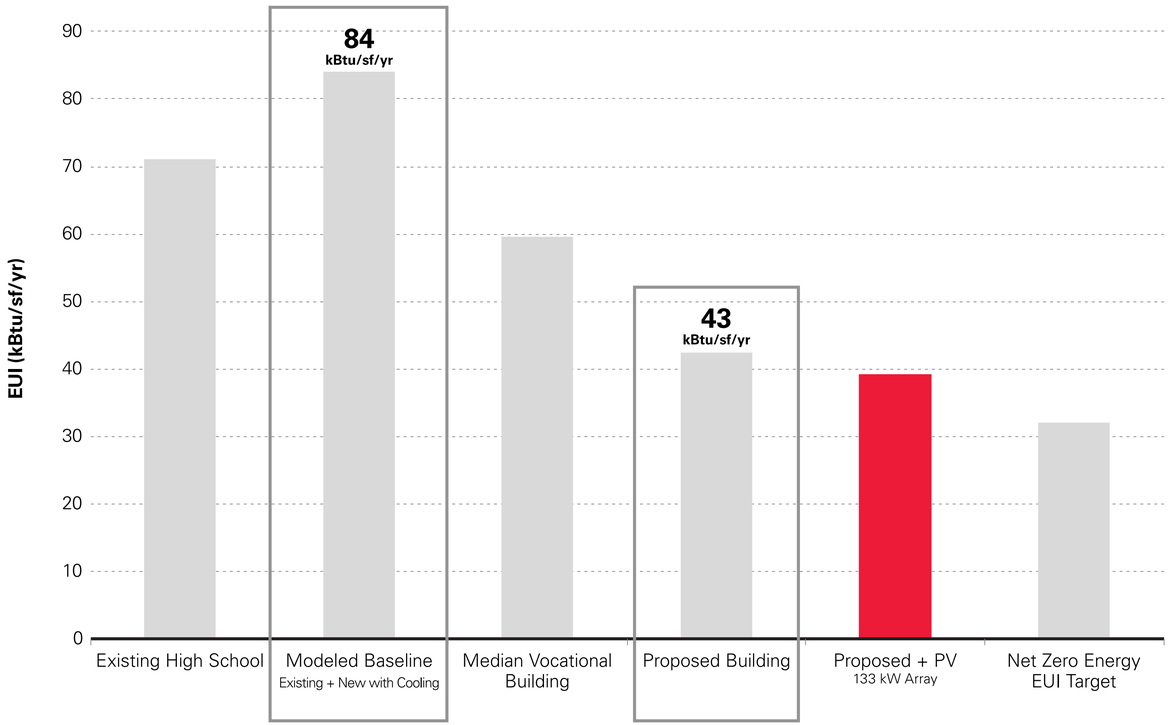
CTE SPACES: HEATING, COOLING & VENTILATION



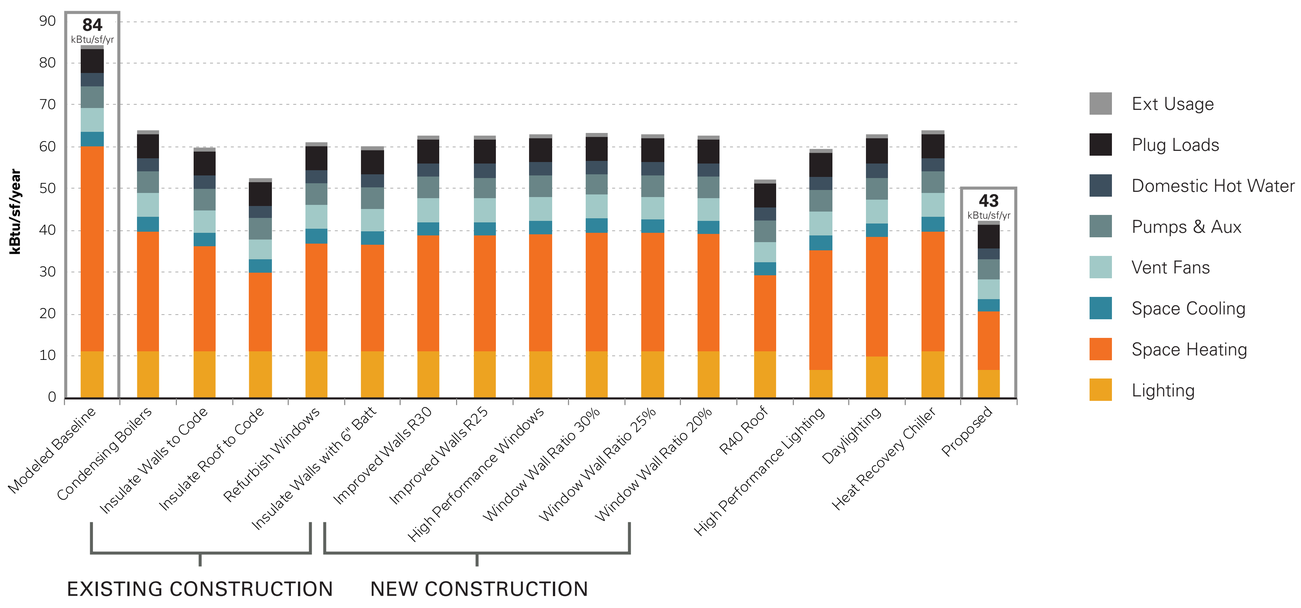
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SCHEMATIC DESIGN / ENERGY ANALYSIS

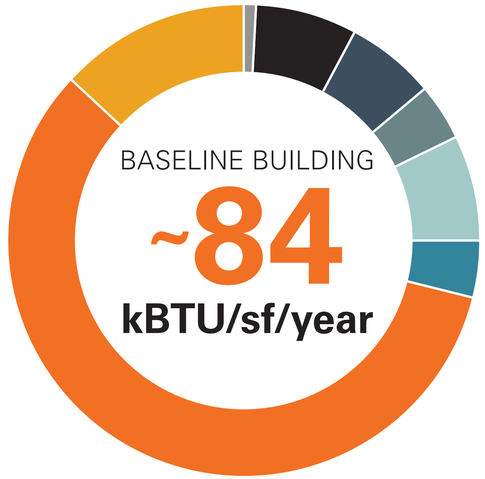
ENERGY USE COMPARISONS



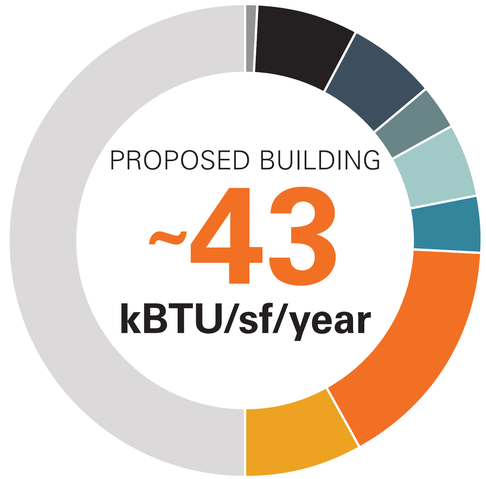
STUDIED ENERGY CONSERVATION MEASURES



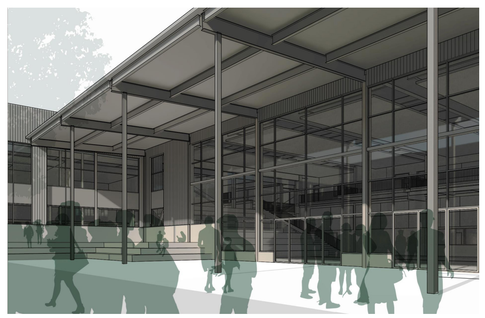
ENERGY CONSUMPTION END-USE BREAKDOWN



Ext Usage	1%
Plug Loads	7%
Domestic Hot Water	6%
Pumps & Aux	4%
Vent Fans	7%
Space Cooling	4%
Space Heating	58%
Lighting	13%



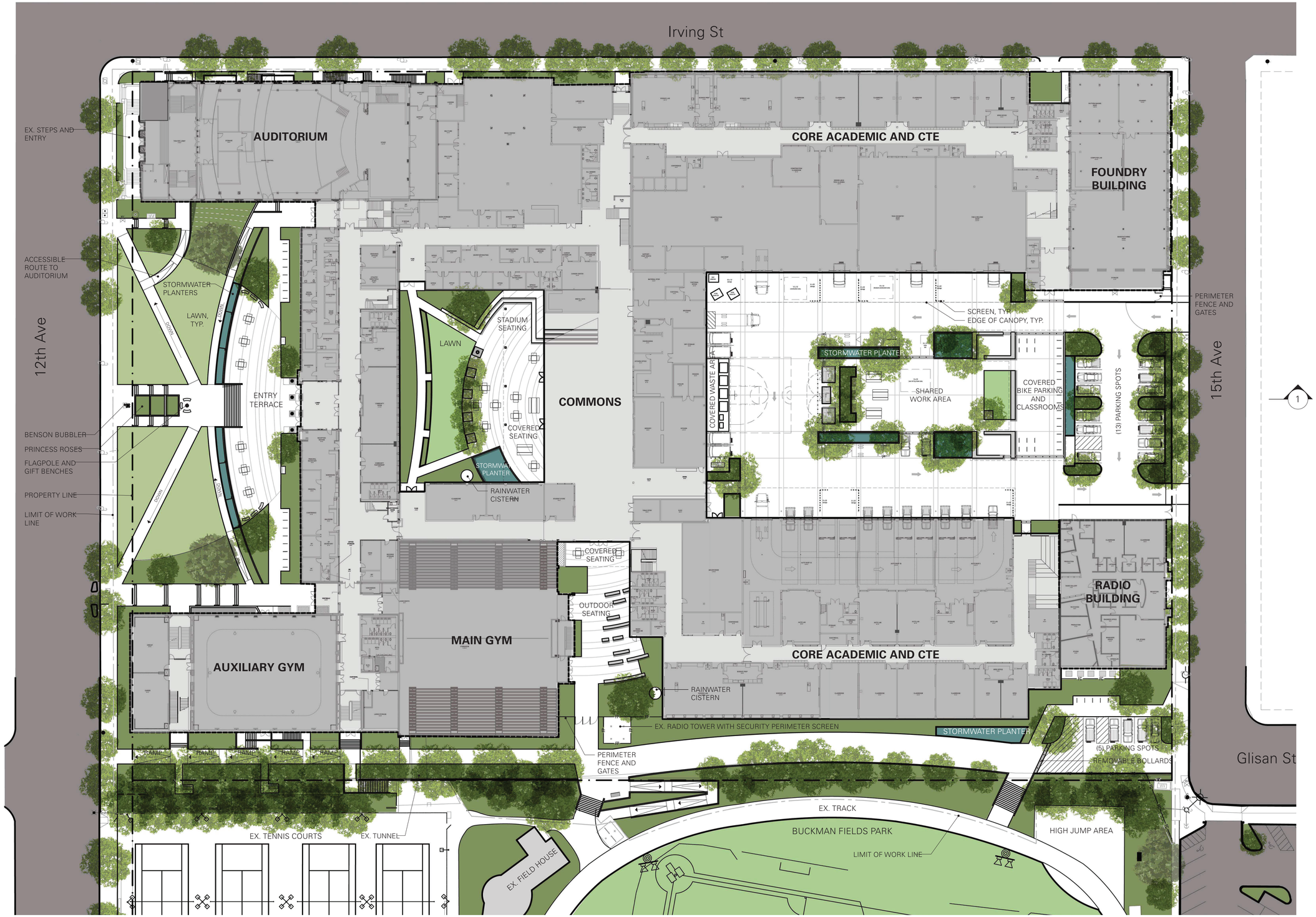
Ext Usage	1%
Plug Loads	7%
Domestic Hot Water	6%
Pumps & Aux	3%
Vent Fans	5%
Space Cooling	4%
Space Heating	16%
Lighting	8%
SAVINGS	**50%**



PROPOSED BUILDING

+ High Efficiency Condensing Boilers
+ Insulate Existing Walls where possible
+ Insulate Existing Roofs
+ 30% WWR New Building
+ High Efficiency Lighting
+ Dedicated Outside Air System (DOAS) with Heat Recovery

SCHEMATIC DESIGN / SITE DESIGN - PLAN



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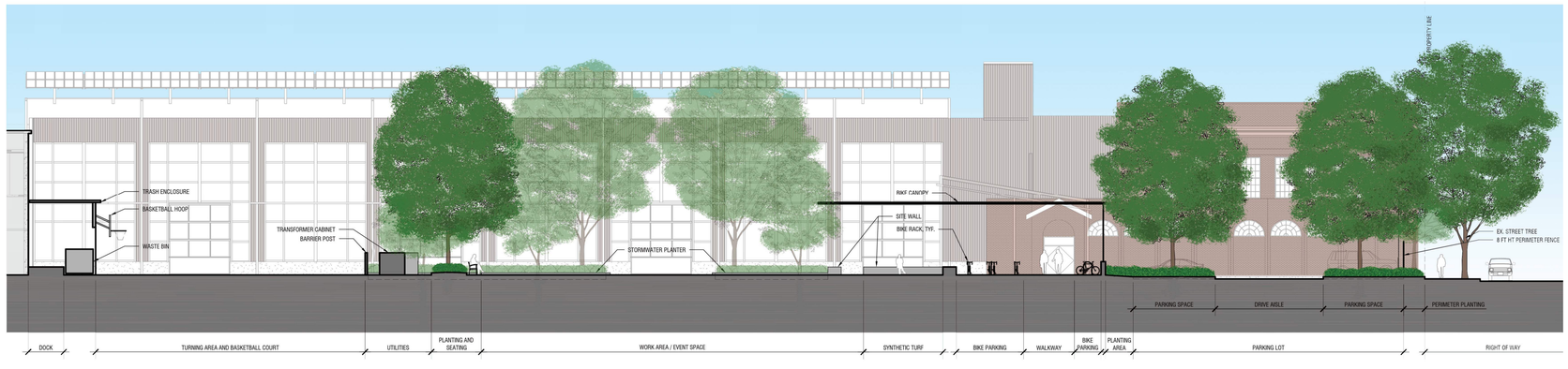
1 SITE SECTION - CENTERLINE OF BUILDING

0 10' 20' 40'



2 SITE SECTION - WEST

0 5' 10' 20'



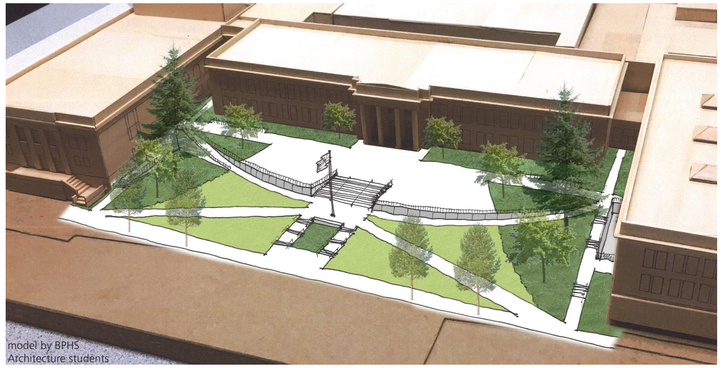
3 SITE SECTION - EAST

0 5' 10' 20'

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SCHEMATIC DESIGN / SITE DESIGN - PRECEDENT IMAGERY

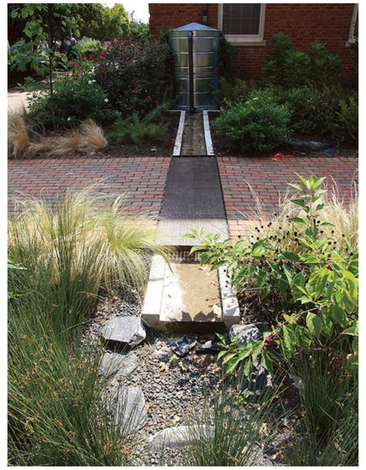
MAIN ENTRY COURTYARD



SOCIAL COURTYARD



STORMWATER MANAGEMENT



CTE COURTYARD

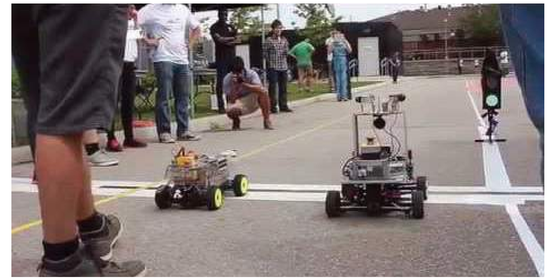


PRINCESS ROSES







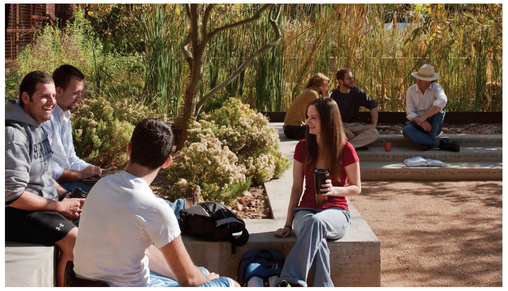


BENSON BUBBLER



GIFT BENCHES AND PLAQUES









SOUTH EDGE PROMENADE



BIKE PARKING



ECO-ROOF



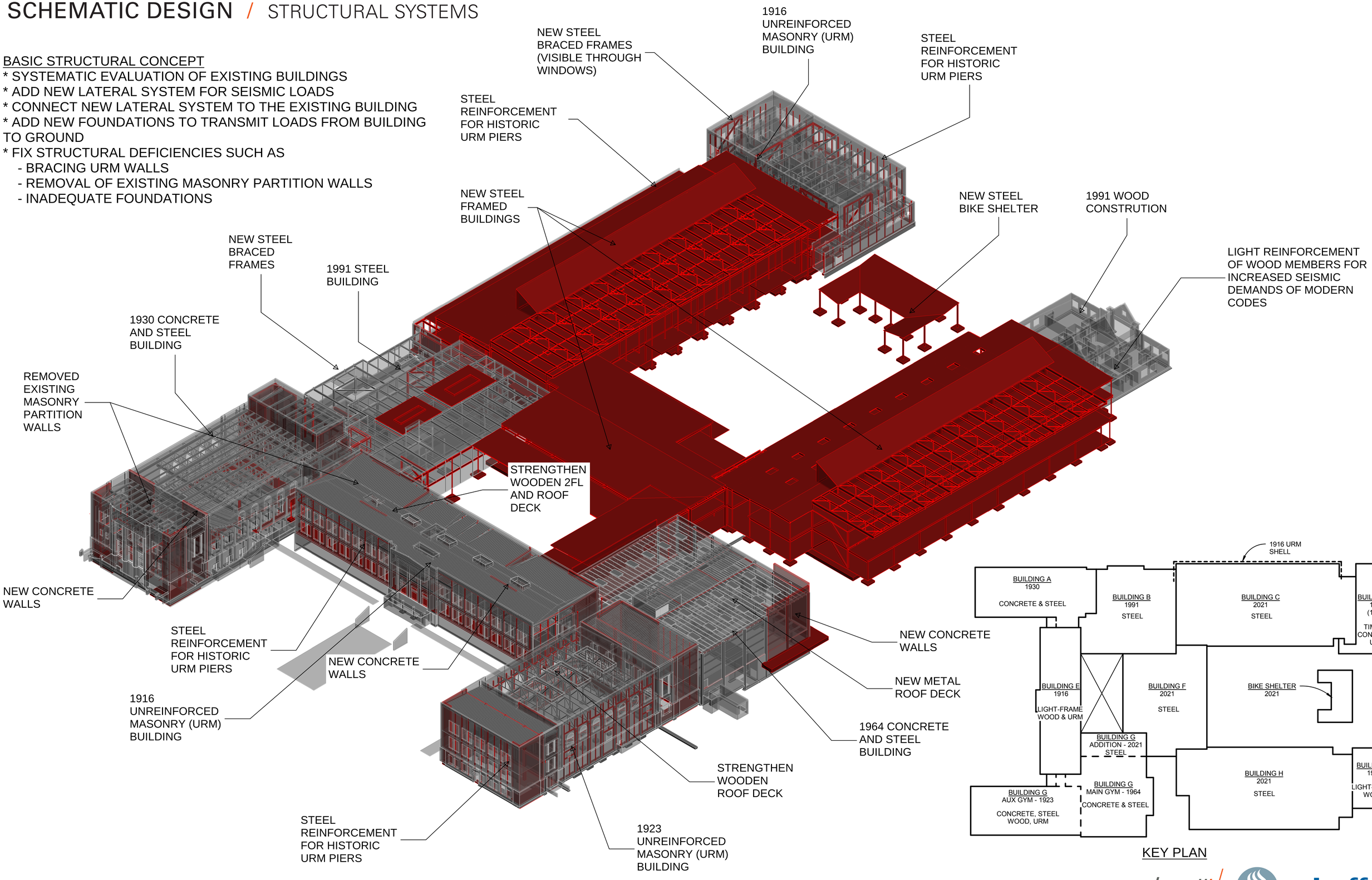
ACCESSIBLE PEDESTRIAN CONNECTIONS



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SCHEMATIC DESIGN / STRUCTURAL SYSTEMS

BASIC STRUCTURAL CONCEPT
* SYSTEMATIC EVALUATION OF EXISTING BUILDINGS
* ADD NEW LATERAL SYSTEM FOR SEISMIC LOADS
* CONNECT NEW LATERAL SYSTEM TO THE EXISTING BUILDING
* ADD NEW FOUNDATIONS TO TRANSMIT LOADS FROM BUILDING TO GROUND
* FIX STRUCTURAL DEFICIENCIES SUCH AS
  - BRACING URM WALLS
  - REMOVAL OF EXISTING MASONRY PARTITION WALLS
  - INADEQUATE FOUNDATIONS



KEY PLAN

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