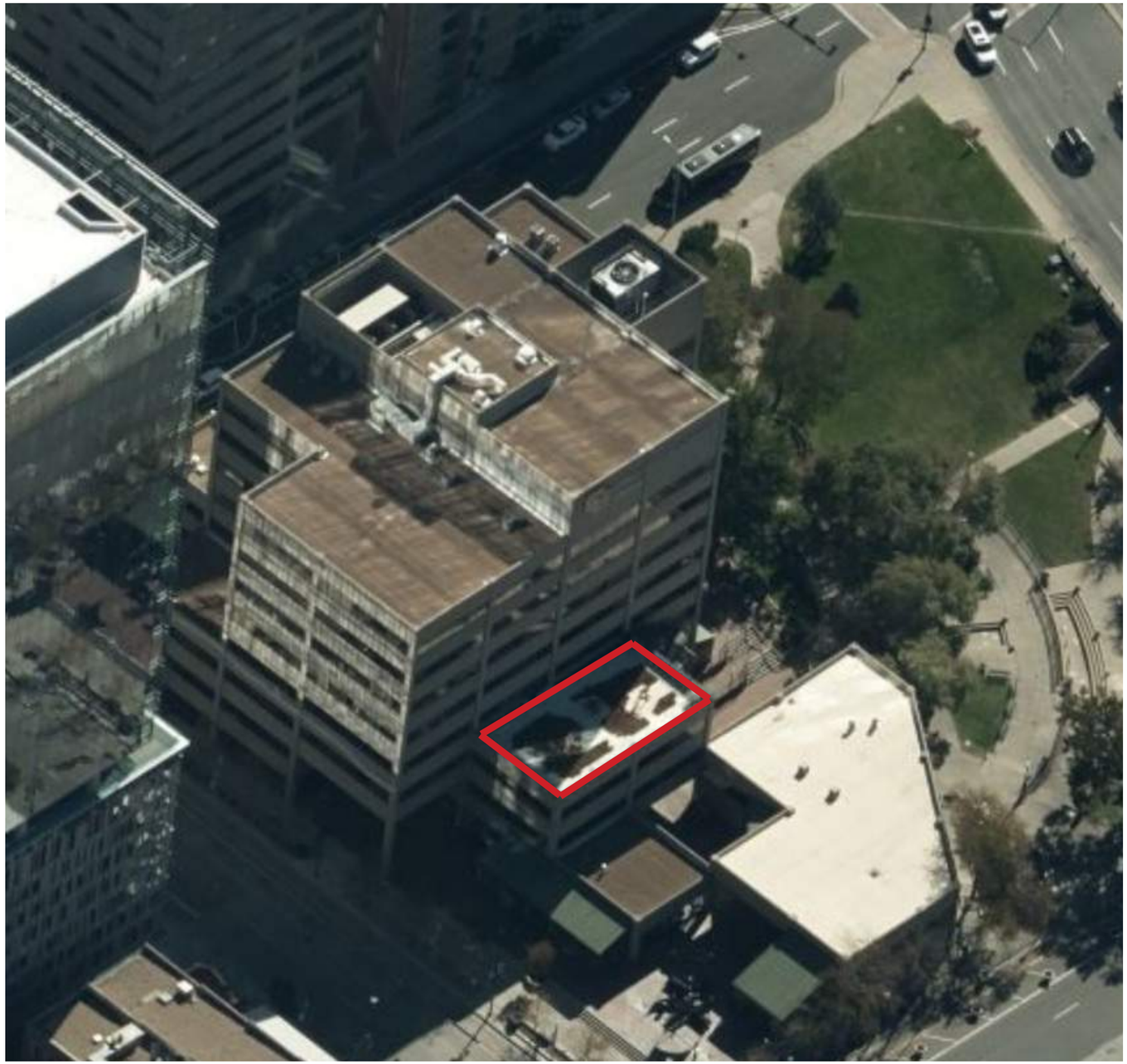
University of Colorado Denver

Office of Institutional Planning



CU Denver Building - 4th Floor Meeting Spaces

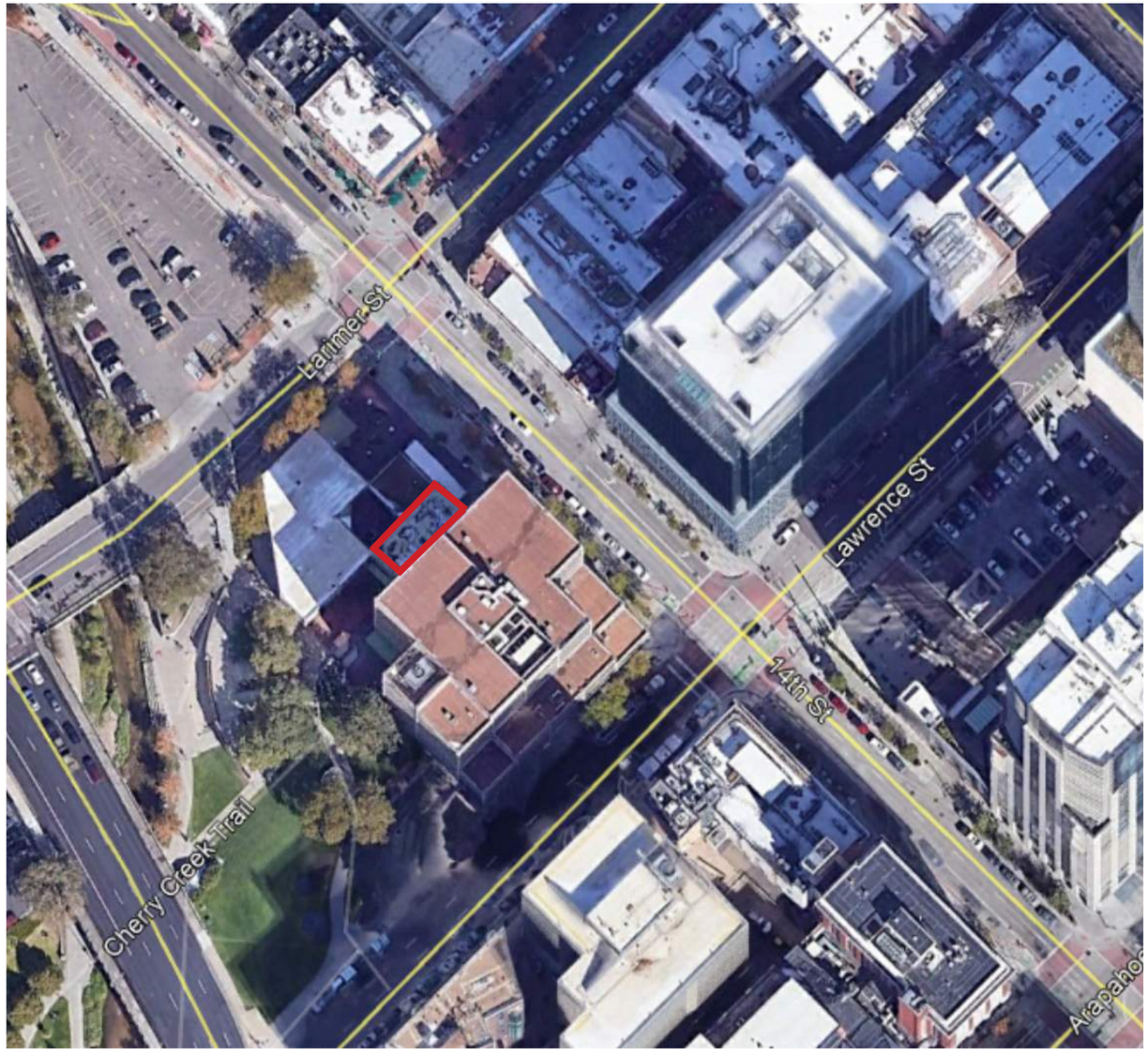
Design Review Board - Pre-Design - February 16, 2021

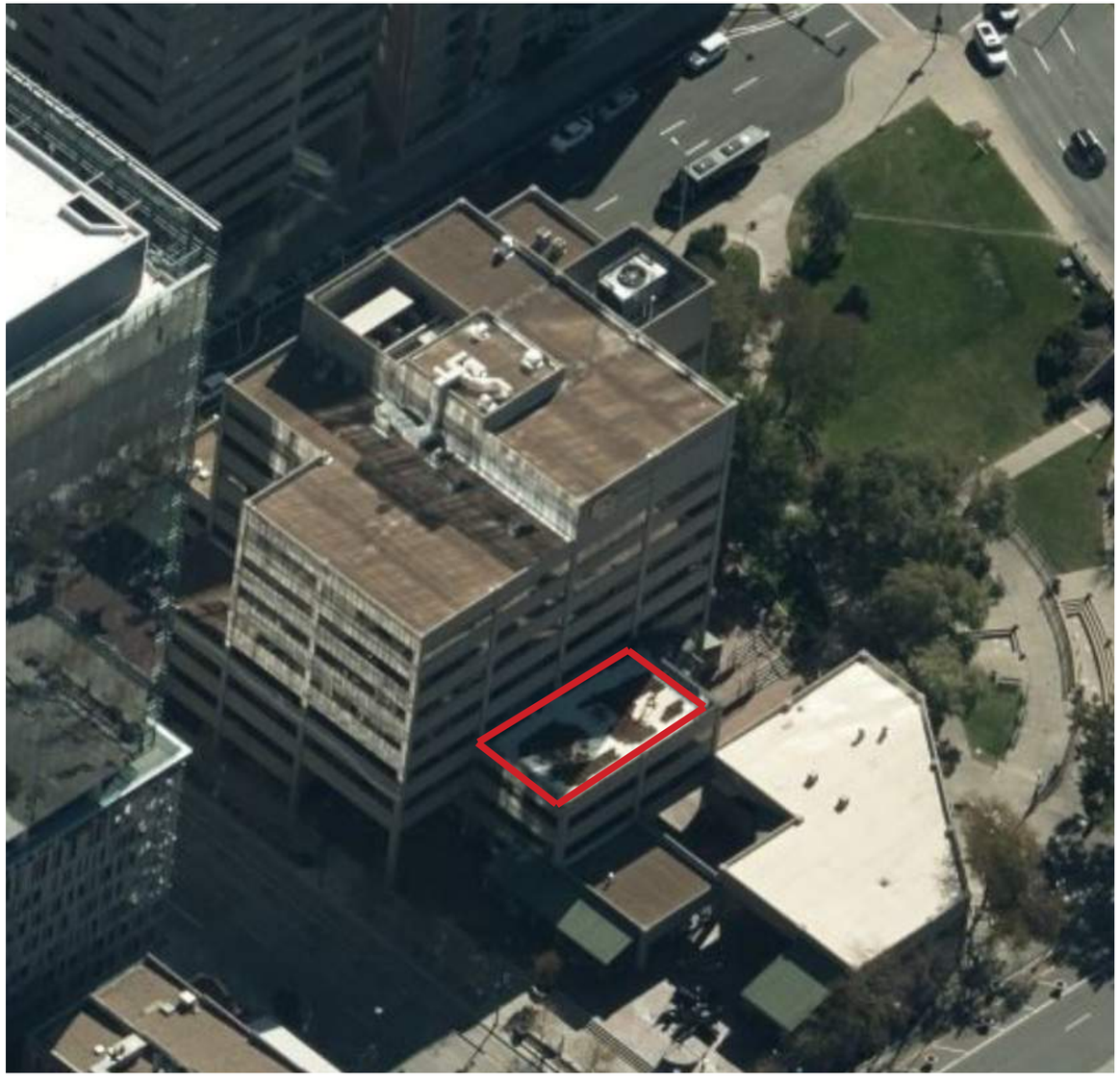
INTRODUCTIONS

Cary Weatherford
Director of Institutional Planning
The University of Colorado Denver

Jered Minter, AIA
Campus Architect, Office of Institutional Planning
The University of Colorado Denver

SITE CONTEXT





PROJECT OVERVIEW

TEAM:

Architect: TBD (Selection Underway)
Office of Institutional Planning: Project Oversight, Design Consult
Projects: Budget, Project Management, Schedule
Advancement: Donor Outreach, Naming, Vision
Other: Operations, CAP, Events, Finance

OVERVIEW:

1. Renovation to the CU Denver Building's 4th floor roof deck, adjacent classroom, and support spaces.
2. Space is for faculty, staff, and students but the primary function is formal donor events.
3. Space should be flexible to allow for a variety of uses.
4. Should be open year-round.
5. Space should be high quality.
6. Maintain views of mountains, city, and campus.
7. Design and construction will use a phased approach so that CU can realize cosmetic improvements (deck top coating, FF&E, paint, etc.) by 8/20/21 (Phase 1). Phase 2 design and construction will follow.

BUDGET: TBD - Initial Conceptual Budget Underway

SCHEDULE (PROPOSED):

Pre-Design DRB Presentation: 2/16/21
A/E Selection: February 2021
Concept Design (Phases 1 & 2) DRB Presentation: 4/13/21
Construction Documents (Phase 1): 5/14/21
Schematic Design (Phase 2) DRB Presentation: 5/18/21
Bidding/Permitting (Phase 1): 6/25/21
Final Acceptance (Phase 1): 8/20/21
First Day of Class: 8/23/21
Donor Committment Deadline: 8/20/21
Design Development (Phase 2) DRB Presentation: 9/14/21
Construction Documents (Phase 2): 11/12/21
Bidding/Permitting (Phase 2): 1/7/22
Final Acceptance (Phase 2): 6/30/22

OPPORTUNITIES, CHALLENGES, SUSTAINABIILITY

PROJECT OPPORTUNITIES

1. Create a “premier” formal outdoor space for University leadership to host events.
2. Act as a magnet for pedestrian curiosity about the function of the CU Denver Building and the roof deck. The space will be visible from Larimer Square and14th Street
3. Enhance the experience for occupants of the roof deck to experience LoDo, campus, and the views of the mountains.
4. Improve the quality of materials used within the bounds of the roof deck.
5. Create an opportunity to partner with Denver’s business community with an emphasis on the design and construction sector.

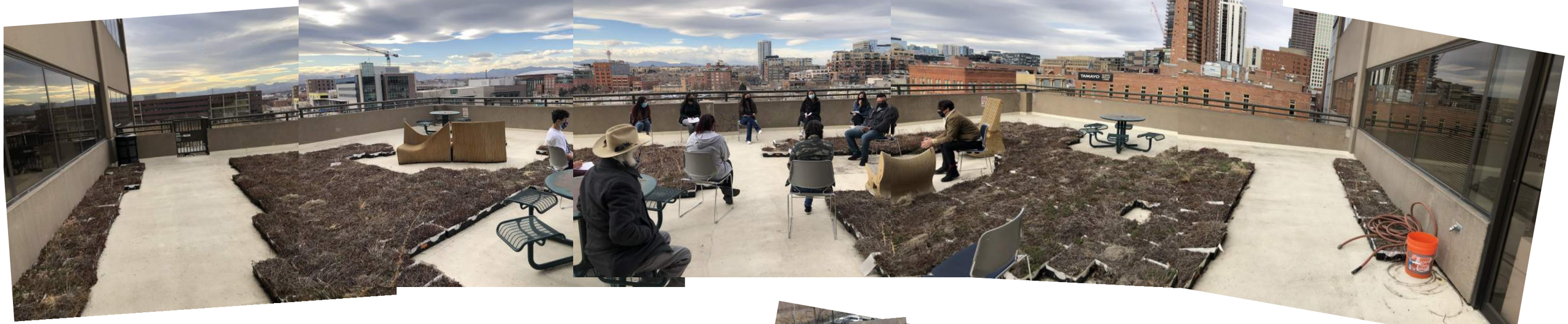
PROJECT CHALLENGES

1. Funding
2. Schedule
3. Integration with existing conditions and materials: precast panels, integral guard rails, double-tee structural system (bearing capacity, precast reinforcement coordination, attachment methods, etc.), topping slab removal (unforeseen condition risk).
4. Cost and strategy to bring power, plumbing, etc to exterior.
5. Waterproofing of roof and planters
6. Designing a functional shade/rain shelter that does not look “off the shelf”, is operable, can integrate and enhance the existing conditions, reduces glare during full sun and low sun, and does not impede views.
7. Removal of wall panels to allow operable glass door system into adjacent spaces.

SUSTAINABILITY STRATEGIES

1. Utilize “green roof” technologies to contribute to:
    a. Reduction of heat island effect,
    b. Reduced energy consumption (through enhanced insulation),
    c. Greater diversity of plants and animal habitats,
    d. Increased storm water detention capability,
    e. Increased roof membrane life span.
2. Reduce solar gain through windows by use of brise soleil.
3. Source material locally.
4. Identify and track carbon “footprint” of materials used.
5. Consider renewable materials.

EXISTING CONDITIONS



4th Floor Deck

Lower Roofs (Alternate Scope Location)

SCOPE NOTES

1. BRISE SOLEIL: CONSTRUCT OF RAW ALUMINUM. WELD STRUCTURAL MEMBERS IN FIELD. SHOP WELD SHADE PANELS. SHADE PANEL MADE FROM 2" D ROUND TUBE ON 4" CENTERS OR ANGLED 4" BLADES AT 6" CENTERS. BEAMS AND PURLINS ARE RECTANGULAR TUBE. BEAMS SHALL CLEAR SPAN FROM BUILDING TO COLUMNS. INCLUDE TRACK SYSTEM AT TOP OF BEAMS/PURLINS FOR RETRACTABLE RAIN SCREEN.
2. PROVIDE (8) 8' WIDE POWERED RETARACTABLE RAIN SCREENS ABOVE EACH BAY OF THE BRIS SOLEIL. SCREEN SHALL EXTEND TO COLUMN LINE.
3. PROVIDE CONDUIT INTERNAL TO COLUMNS AND BEAMS.
4. ALL CODUCTORS IN CODUIT TYPICAL AT INTERIOR AND EXTERIOR EXPOSED STRUCTURE.
5. PROVIDE (28) SMALL WEATER RESISTANT LED DOWN LIGHTS AT BRISE SOLEIL (8'X8' GRID).
6. PROVIDE (8) EXTERIOR WATER RESISTANT SPEAKERS AND (12) INTERIOR SPEAKERS.
7. AV HEAD-IN SYSTEM TO BE LOCATED IN CU-470 WITHIN A LOCKABLE AV CABINET. PROVIDE (3) WEATHER RESISTANT AV/POWER CONNECTIONS AT EACH PARAPET WALL. PROVIDE WAP AT EXTERIOR.
8. INTENSIVE AND EXTENSIVE GREEN ROOFS AND PLANTERS SHALL INCLUDE WATERPROOFING MEMBRANCE, DRAINAGE, MEDIA, IRRIGATION, ETC (FULL SYSTEM SOLE-SOURCE) BY HYDROTECH OR EQUAL. INTENSIVE PLANTERS ARE 8" WIDE 18" TALL ACID WASHED CONCRETE WITH SINGLE PITCH PRECAST COPING. COPING IS 12" WIDE.
9. DECK SHALL BE COMPLETELY REPLACED. ASSUME REPLACEMENT OF 2-4" SLOPED TOPPING SLAB. NEW TOPPING SLAB SHALL SLOPE TO DRAINS, DOORS, STAIR. INCLUDE NEW DRAIN BODIES AND STAINLESS FLUSH COVERS. ADD LINEAR DRAIN AT ALL DOORS. INCLUDE UNDER SLAB WATERPROOFING SYSTEM BY HYDROTECH OR EQUAL. CONCRETE SHALL BE ACID ETCHED AND SEALED.
10. INCLUDE ALLOWANCE FOR REPAIR OF 3RD FLOOR CEILINGS.
11. PROVIDE ALLOWANCE FOR (120) STACKABLE ALUMINUM CHAIRS, ROLLING CARTS, (10) 6' D TABLES, (6) 3'X8' TABLES, LECTERN, (2) MOBILE BARS.
12. KITCHEN: LARGE FORMAT TILE FLOOR, FULL HEIGHT QUARTZ BACKSPASH, QUARTZ COUNTER, LAMINATE CABS, PAINT, GPDW CEILNG, LIGHTING, PLUMBING, STAINLESS ROLL DOWN. NO STOVE OR HOODS.
13. KITCHEN EQUIP: DISHWASHER, SINK, ICE MAKER, UPPER AND LOWER CABS. LEAVE ROOM FOR CATERER WARMING RACKS.
14. RETRACTACTABLE FULL HEIGHT GLASS PANEL DOOR SHALL HAVE EQUAL SIZED PANELS.
15. PROVIDE (4) 24' RADIANT ELECTRIC HEATERS

ALTERNATES

1. (2) LOWER EXTENSIVE GREEN ROOFS.
2. REFRESH (2) TOILET ROOMS.

CU-C400C
134.2 SF

CU-C400B
226.4 SF

CU-C400D
118.5 SF

CU-C400E
152.1 SF

CU-C400A
205.9 SF

CU-C400
606.6 SF

RESTROOM
CU-R401
161.0 SF

RESTROOM
CU-R402
134.6 SF

CLASSROOM
CU-480
1,131.2 SF

COMPUTER
LAB
CU-460
1,173.8 SF

CATERING
KITCHEN
144.0 SF

STORAGE
149.8 SF

CLASSROOM
CU-470
2,108.9 SF

ROOF DECK
2,231.0 SF

LOWER
GREEN
ROOF 1
6,148.7 SF

LOWER
GREEN
ROOF 2
1,239.4 SF

COURTYARD BELOW

ROOF
BELOW

ROOF BELOW

ALT: PAINT, WALL/FLOOR TILE, LIGHTING, TOILET PARTITIONS, COUNTER, MIRRORS, ACCESSORIES, FIXTURES

CUSTOM ALUMINUM BRISE SOLEIL. COLUMNS ATTACH TO EXISTING CONC COLUMNS. RETRACTABLE RAIN SCREENS ABOVE TO AVOID CONFLICT WITH VINES

MOBILE PRECAST PLANTER WITH DRIP IRR AND DRAIN

ALT: LOWER ROOFS IRRIGATED EXTensive GREEN ROOF

CUT/PATCH GUARDRAIL AT NEW COLUMNS. PAINT GUARDRAILS, AND EXTERIOR STAIR, TYP.

PLANTERS AT COLUMNS HAVE VINES FOR SHADE STRUCTURE

REMOVE VINYL WALL COVERING, PATCH/PAINT, CARPET, BASE, ACT GRID/TILE, GPDW SOFFITS, LIGHTING THROUGHOUT CORRIDORS. EXPOSE STRUCTURE, MOD SPRINKLER AT ELEVATOR "LOBBY". ADD PLYWOOD & STEEL PANELING TO 75% WALLS. MATCH 2ND FLOOR.

NEW STOREFRONT TO MATCH SLIDING DOOR. ALARMED PANIC WITH ELEC STRIKE AND CARD READERS

SLIDING GLASS PANEL DOOR

OVERHEAD COILING DOOR AT COUNTERTOP

PAINT, CARPET (80%), POLISHED CONCRETE (20%), LIGHTING, FLOATING ACT "CLOUD" WITH EXPOSED STRUCTURE PERIMETER (MATCH 2ND FLOOR), WINDOW SILLS, MOD SPRINKLER, TABLES, CHAIRS, LECTERN, AV, MARKERBOARDS.

KITCHEN EQUIPMENT

MAINTAIN EGRESS

CONCRETE CURB INTENSIVE PLANTING BEDS

MOBILE BAR

8'-0"

64'-0"

19'-7"

34'-9"

LARIMER STREET

14TH STREET

LEGEND

SPACE TYPES

- DECK - HARDSCAPE
- GREEN ROOF
- CLASSROOM - EVENTS
- STORAGE - EVENTS
- CATERING KITCHEN - EVENTS
- RESTROOM
- CORRIDOR

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4TH FLOOR PRE-DESIGN

FLOOR PLAN

CU DENVER BLDG
Floor 4

0 4 8 16 32

PN N

SCALE: 1/16" = 1'-0"

2/2/2021

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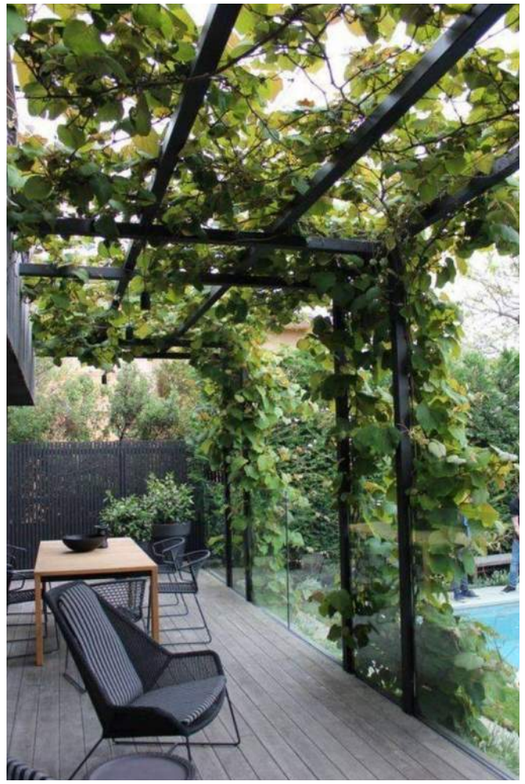


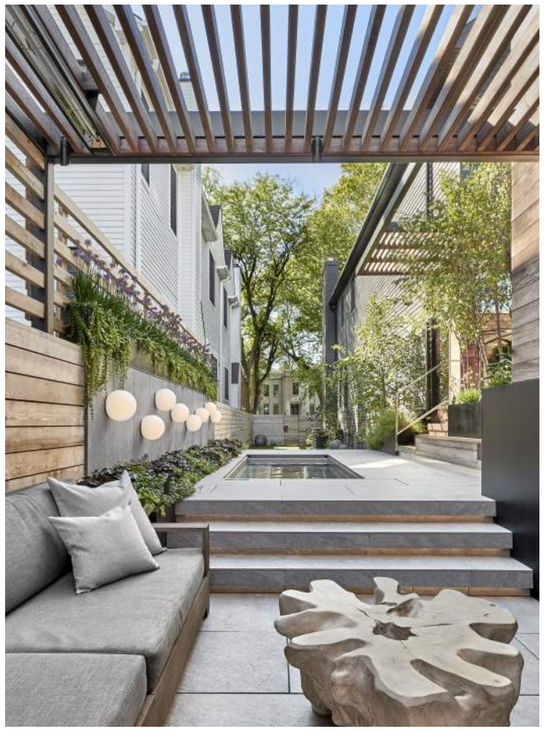



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4TH FLOOR PRE-DESIGN

QUALITY OF LIGHT - MOOD

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Concept Images

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4TH FLOOR
PRE-DESIGN

BRISE SOLEIL

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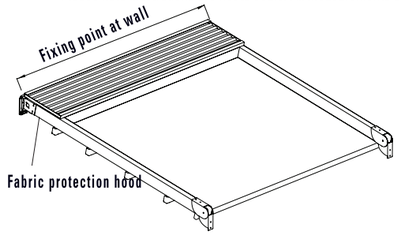
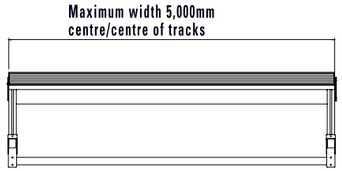
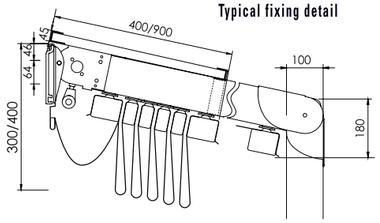
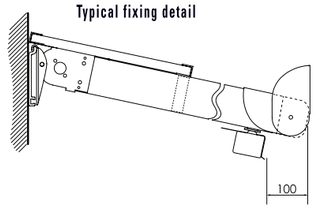
ALUTECNIC SERIES - EVO RETRACTABLE ROOF

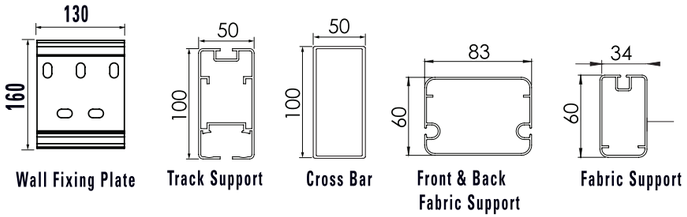
Please note illustrations are not to scale. All measurements are in millimetres. Please contact your Tecnic Awnings representative for additional information.











SIZES	
WIDTH & PROJECTION	Max. width 15m - Max projection 12m
OPERATION	
TYPE	**Motorised or Manual**
HARDWARE	
MATERIAL	All components made from non-corrosive materials, including 316 stainless steel connectors & bolts. 6061 grade extruded aluminium support frame (available in over 200 colours)
FABRIC OPTIONS	
	Reinforced high-tensile polyester core PVC (Precontraint Ferrari 502)
	Optional Soltis 86 or 92 reinforced high-tensile polyester core sunscreens
CONTROL OPTIONS	
	Integrated lighting modules
	Integrated electric radiant heat panels
	Integrated motorised blinds & curtains
	Integrated guttering

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4TH FLOOR PRE-DESIGN

RETRACTABLE RAIN SCREEN

CU DENVER BLDG
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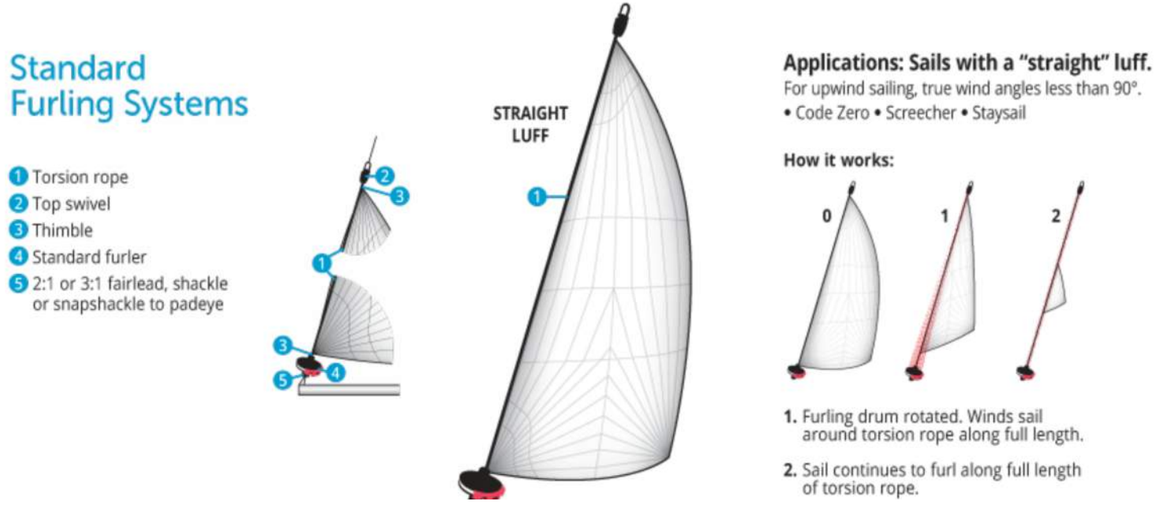

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4TH FLOOR PRE-DESIGN

ALTERNATE RAIN SCREENS

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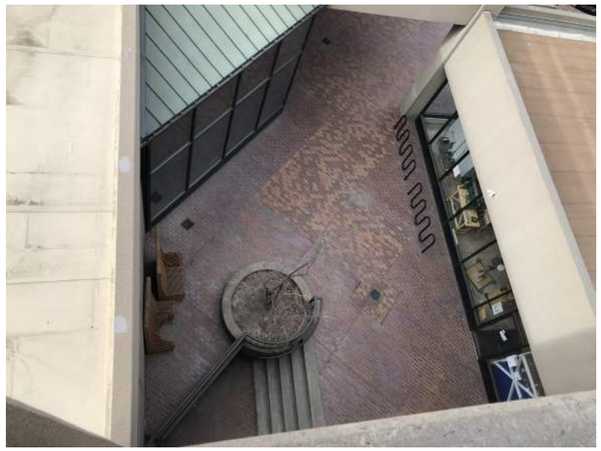
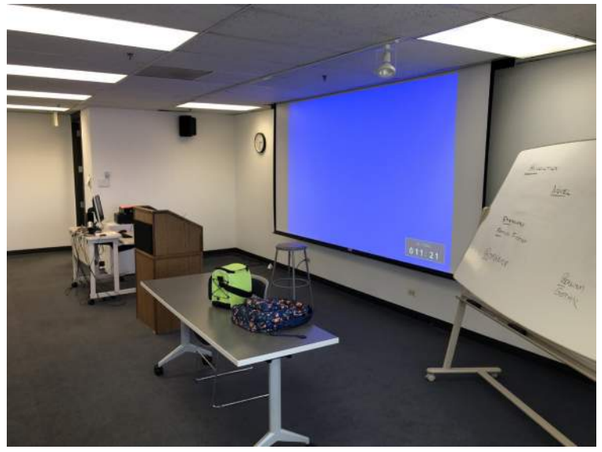
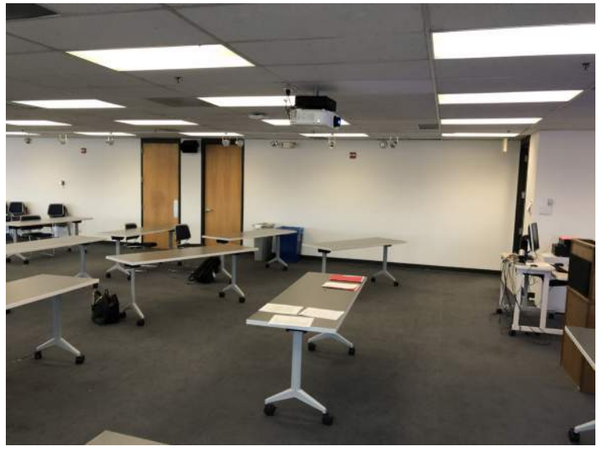
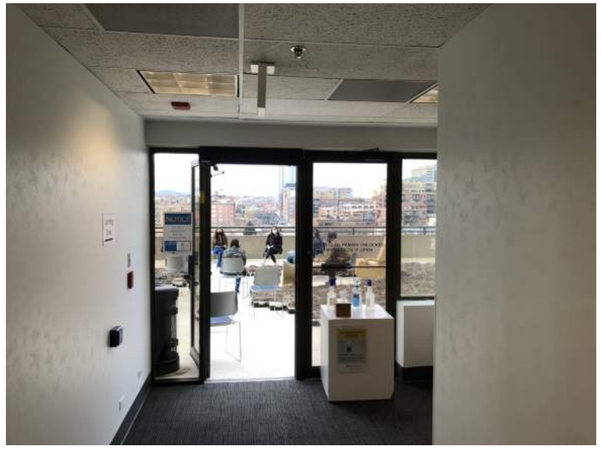
EXISTING CONDITIONS










PROGRAM

Space	Square Footage		
C400	606.6		
C400A	205.9		
C400B	226.4		
C400C	134.2		
C400D	118.5		
C400E	152.1		
		1,443.7	Corridor Renovation Sub-Total
R401	161.0		
R402	134.6		
		295.6	Restroom Renovation Sub-Total
Elevator Cab 1	44.1		
Elevator Cab 2	44.1		
Elevator Cab 3	44.1		
		132.3	Elevator Renovation Sub-Total
470	2,108.9		
		2,108.9	Classroom Renovation Sub-Total
Catering	144.0		
Storage	149.8		
		293.8	New Space Sub-Total
		4,274.3	**Total Interior Scope**
Deck Hardscape	1,940.0		
Deck Landscape*	291.0		
		2,231.0	Deck Sub-Total
Lower Roof 1	6,148.7		
Lower Roof 2	1,239.4		
		7,388.1	Green Roof Sub-Total
		9,619.1	**Total Exterior Scope**
Deck Shade/Rain Structure	2,231.0		

NOTES:
1. * = Does not include 4 3'D Plant Pots
2. Squarefootages are NSF