

IRVINE, CA

# CALIFORNIA MASONRY SUMMIT & EXPO

APRIL 30, 2026

**Welcome!**

[www.CaliforniaMasonryCouncil.org](http://www.CaliforniaMasonryCouncil.org)





**#masonrymatters**



# CMC connects the A/E/C Community in California with the Masonry Trade

CMC's mission is to be a catalyst, advocate, and the best masonry resource in California. (Concrete Block, Brick, Stone)

Our organization promotes masonry as an essential design and building material while uniting our trade with the AEC community.

Our priorities are to connect, inform, and inspire AEC professionals, as well as the new generation of students in Architecture, Structural Engineering, and Construction Management.

We're here to connect you with the right people to successfully integrate masonry into your projects.

CMC is a non-profit organization.

**Building a sustainable future with  
Masonry...**

# In our First 2 Years:

## **1<sup>st</sup> Edition of the California Masonry Summit and Expo 2025**

- 250 Attendees at UCLA

## **Masonry Week Educational Program to be Launched in 2026**

- 4 Architecture Schools in CA
- 100 Students Reach Minimum
- Partnership with Concrete Masonry Checkoff
  - Student's Scholarships

## **1<sup>st</sup> Student's Masonry Architecture Competition at CMSE 2026**

- \$12,000 in Scholarships
- 2 Categories (Block, Brick)
- 73 Students Registered

## **1<sup>st</sup> Masonry Architecture Competition at CMSE 2025**

- 17 Awards
- 3 Categories (Block, Brick, Sustainability)
- 68 Projects Submitted

## **2<sup>nd</sup> Edition of the California Masonry Summit and Expo 2026**

- 350 – 400 Attendees at Irvine CA – April 30, 2026
- Free Access & Transportation to +100 AEC Students

## **CASH Conference 2026 Masonry Pavillion**

- A Coalition of Masonry Stakeholders

**Building a sustainable future with  
Masonry...**



# In our First 2 Years:

## Mailing Subscribers, AEC Distribution List:



mailchimp

**39,198**  
Subscribers

**33%**  
Average Open  
Rate

**8.6%**  
Average Click  
Rate



**202,600**  
Impressions

**935**  
AEC Interactions  
(Reactions & Comments)

**55**  
Reposts



**207,080**  
Views

**7,912**  
AEC  
Engagements

**11,840**  
Interactions  
(Clicks, Likes, Follows,  
Comments)



[www.CaliforniaMasonryCouncil.org](http://www.CaliforniaMasonryCouncil.org)



California-Masonry-Council



CaliforniaMasonryCouncil

Building a sustainable future with  
Masonry...

# In our First 2 Years:

CMC launched Social Media channels in May 2024, becoming the fastest growing masonry org in social media.

## LinkedIn

+2,700

Followers

## Instagram

+3,200

Followers



[www.CaliforniaMasonryCouncil.org](http://www.CaliforniaMasonryCouncil.org)



California-Masonry-Council



CaliforniaMasonryCouncil

Building a sustainable future with  
Masonry...

# A/E/C Priority Topics

CMC is committed to bring the AEC Community and the Masonry Trade closer to topics that are a priority to our community, and the built environment.

As a connector and valuable resource among masonry stakeholders, CMC brings experts and industry leaders together to drive growth and positive change.

Our priority topics are those that drive informed decisions when specifying building materials.

Sustainability + LCAs + EPDs

Architecture & Design Trends

Low Carbon + Decarbonization

Net Zero + Energy Efficiency

Building + Energy Code

Resiliency + Fire Resistance

Technology + Robotics

BIM + VDC + AEC Software

Building Materials + Products



# CMC Today

As of May 1st, 2026, the Masonry Institute of America (MIA) will officially be merging and becoming part of the California Masonry Council (CMC) to consolidate technical assistance, publications, and resources streamlined into a unified platform with an expanded reach.

This initiative is part of CMC's long-term strategic plan to strengthen our organization and enhance our ability to serve our trade and the AEC Community and **continuing with MIA's legacy of being a trusted technical resource.**

Our Technical Services will remain fully operational throughout this transition, and we will soon be expanding our service offerings including **“design-assist”**. Our team continues to be available to assist with all technical inquiries and publication needs.

New Publications will be announced soon!



# CMC Today

Our team is diligently developing new programs, events, and resources to further our mission of being California's best masonry resource, fostering connections between the Masonry Trade and the AEC Community, and promoting industry growth.

We would like to express our sincere gratitude to all our valued partners with MIA and CMC as we navigate through these organizational changes and reaffirm our commitment to continue to work for the good of the Masonry Industry and serving our community.

CMC is a non-profit organization.

More to come...



**#masonry  
matters**

# THANK YOU, FOR BEING HERE TODAY!



**#masonrymatters**





Architectural & Contractor Sales

Brick - Natural Stone - Pavers - Precast

7 Locations across CA

*[thompsonbldg.com](http://thompsonbldg.com)*



APRIL 30, 2026 @ IRVINE, CA

# BRICK ARCHITECTURE PANEL

Thank you to our Session Sponsor!



[www.CaliforniaMasonryCouncil.org](http://www.CaliforniaMasonryCouncil.org)



**ARNOLD SWANBORN**  
AIA, LEED AP - Design Principal  
@ CO Architects



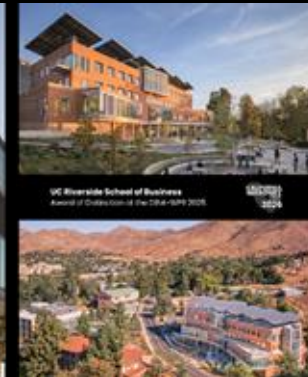
**JEANNE CHEN**  
FAIA - Principal @ Moore Ruble  
Yudell Architects & Planners



**SUNUP MATHEW**  
Director of Industry Development &  
Technical Services @ International  
Masonry Institute (IMI)



**STEVEN CHANG**  
AIA, LEED AP BD+C - Principal  
@ ZGF Architects



Award-winning Architecture

#masonry  
matters



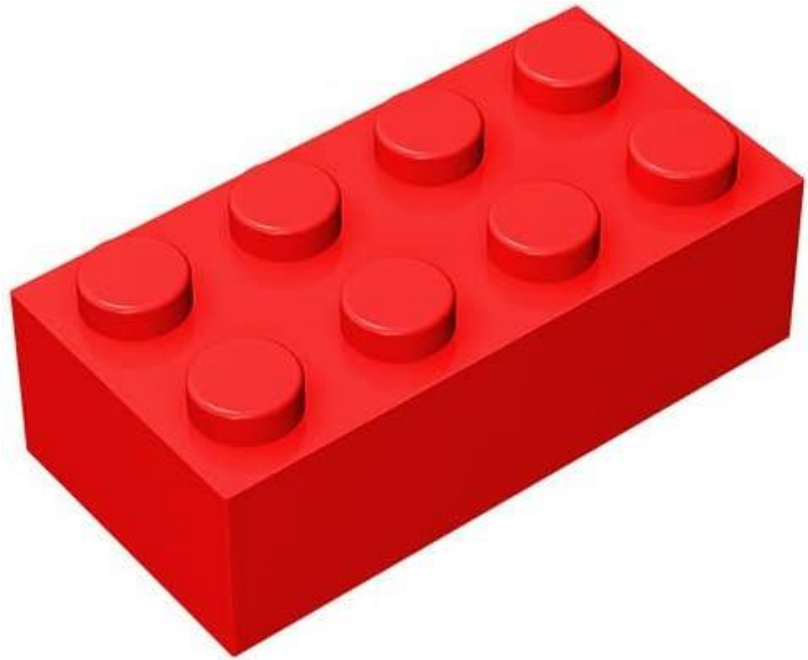
# Cal Poly SLO

Frost Center for  
Research & Innovation

ZGF

















# Purpose

ZGF





Place

ZGF





# Presence

ZGF





# Performance

ZGF











**CAL POLY**



# PROGRAMMING

## COLLEGE OF AGRICULTURE, FOOD, AND ENVIRONMENTAL SCIENCES

AG Communication  
Animal Science  
Wet Bench Work  
Open Flexible Research Space  
Sterile Tissue Culture  
Noisy, Heat Generating Equipment  
Freezers  
Environmental Control Room  
BSL2 Meat Processing Lab  
Vibration Sensitive Microscopy  
Quality Dirty Space For Plant Science  
Outdoor Soil Storage  
Roll Up Doors For Vitaculture  
Drive Up Space  
Cold Space  
Microscopy  
Food Science  
Tasting Area  
Culinary Space  
Metabolic Kitchen  
Path From Parking  
Focus Group Rooms  
Positive Pressure Room For Fermented Food Products  
Dexa Scanner  
Fitness Assessment  
Chemistry Capability With Solvent Disposal  
GC, Mass Spec, Analytical Needs  
Atmospheric Chambers  
Greenhouses  
Breeding / Genomics  
Service Elevator / Large Doorways  
AG Circle For Loading / Unloading To Get Out To The Field  
Food Science  
Walk In Refrigeration For Palettes  
Walk In Freezer  
Genetics  
Walk-in Cold Room With Ambient Light For Plants To Bloom  
Shared Analytic Equipment  
Imaging  
Digital Media Labs  
Computer Labs  
Cluster Server For Big Data Analytics  
Small Animal Vivarium To Supply Rodents To Entire Campus  
Heart Health Teaching / Research  
Nutrition And Fitness Testing  
Biopsies  
Dexa Scanner  
Clinical Space For Participants  
Observation With Mirrors  
Plant Science Technicians  
Bio Tech  
Entomology Collection

## COLLEGE OF LIBERAL ARTS

Liberal Arts And Engineering Studies  
Theme Parks  
Story Telling  
Recording  
Computer Science  
Media Arts  
Science  
Technology  
Society  
Gender  
Race  
Culture  
Public Policy  
Risk  
Communication  
Genetically Modified Organisms  
Climate Change  
History  
Climatology  
Geology  
Public Relations  
Flexible Reconfigurable Instructional / Project Space  
Light Tools  
Recording Studio To Flex To Immersive Sound  
Interactive Space With Large Video Screen  
Ceiling Grid For Apparatus  
Sink  
Black Box Theater  
Paint  
Wood Assembly  
Prototype Development  
3D Printer  
Erector Sets  
Video Crane  
Computer Lab For Electronic Projects  
Black Out Capability  
Visibility For Public Relations  
Acoustics Important  
PR For Natural Science Resource Center  
Recording Studio For Ag Communications  
Computer Lab  
Specialty Computers With Licenced Software  
Organize Computers In Pods For Teaching  
Living Space Around The Edges  
Fiber For Large File Transfers (Like Cosam)  
Editing Bays  
Faculty Offices May Flex To Project Space  
Branded Identity For CLA

## COLLEGE OF SCIENCE AND MATHEMATICS

Outdoor Staging Space For Oceanographic Equipment  
White Up Space Adjacent But Outside Of Labs  
Adjacent Labs Should Be Easy To Move Through  
Meeting Space Adjacent To Labs  
Controlled Environment Room  
Biotech  
Biology  
Chemistry  
Undergraduate Research  
Molecular Biology  
Chem / Phys Computer Servers  
Live Specimen Storage  
Greenhouse  
Reptiles  
Rodent Vivarium  
Fish Tank Labs For Teaching And Research  
Herbarium  
Marine Sciences Boat House  
Large Instrumentation  
Outdoor Access  
Loading Dock Access  
Machine Shop  
Environmental Chambers  
Faculty Offices With Adjacent Student Space  
Technical Support  
Post Docs  
Learn By Doing Lab  
Natural Science Resource Center  
Physics Shops at Baker

Computer Labs

Maker Spaces

Meeting Space

Specimen Collections

Chemistry

Media

Controlled Environments

Flexible Lab Spaces

Genetics

Outdoor Access

Animal Facilities



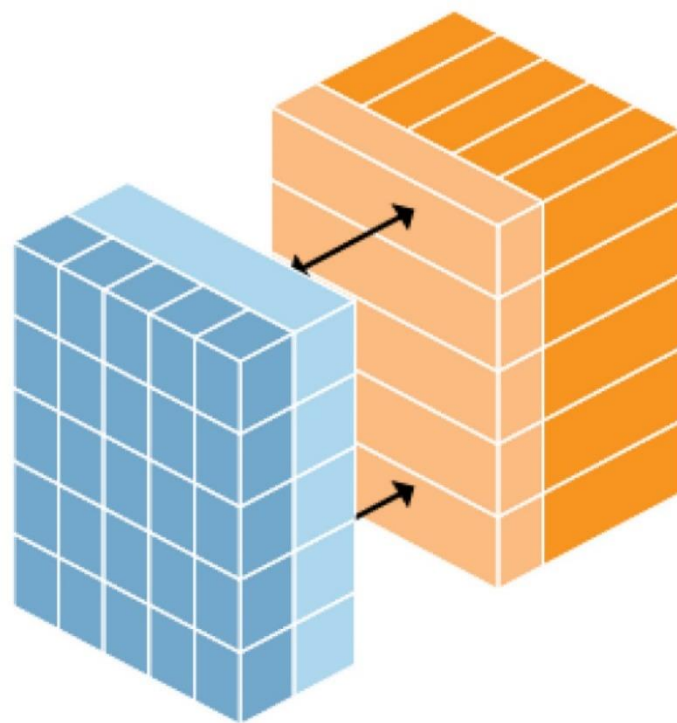
An aerial photograph of a suburban neighborhood. The image shows a dense arrangement of houses with various roof colors (brown, grey, red) interspersed with green trees and lawns. A network of roads and parking lots is visible. In the upper right, there's a larger, more open area that appears to be a park or undeveloped land. The overall scene is a typical suburban residential area.

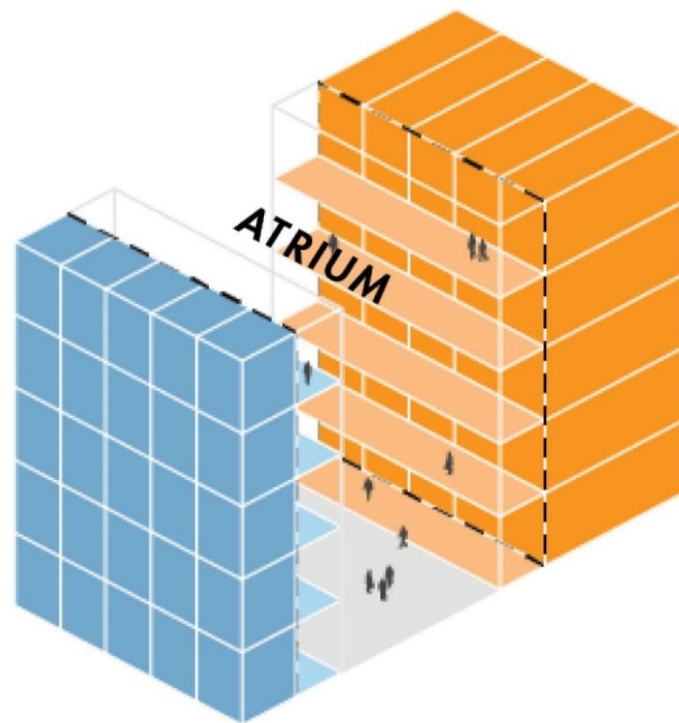
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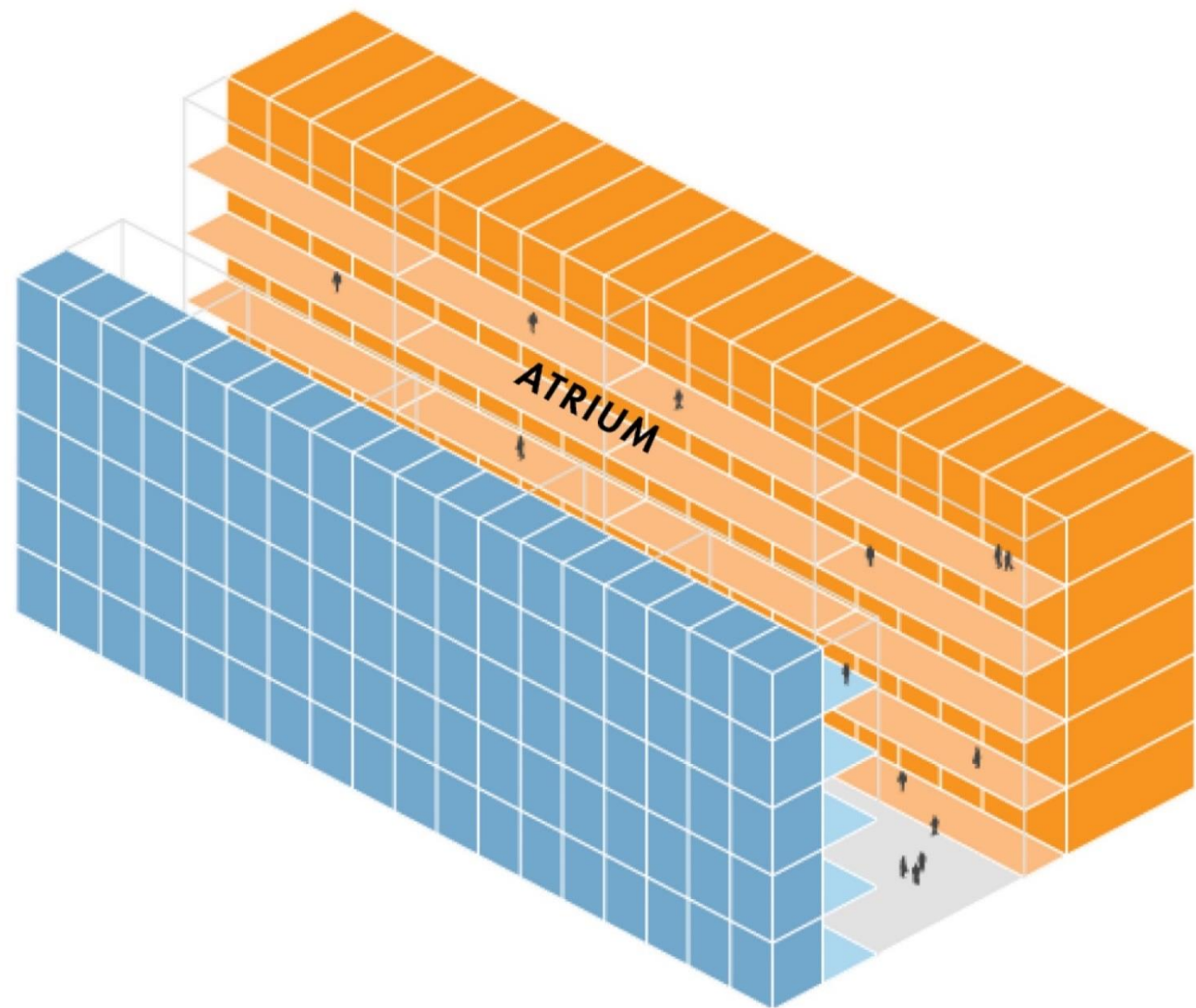


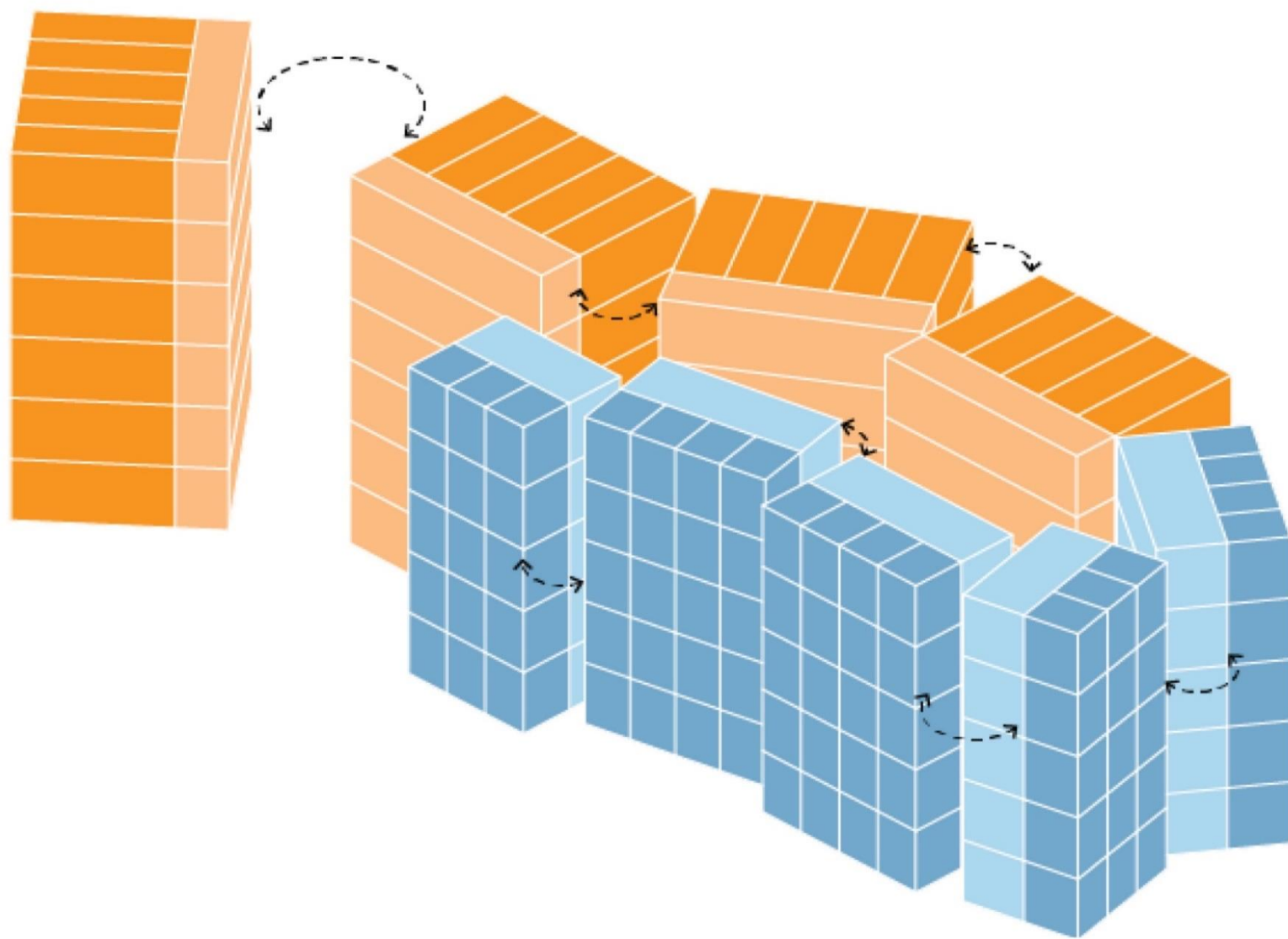




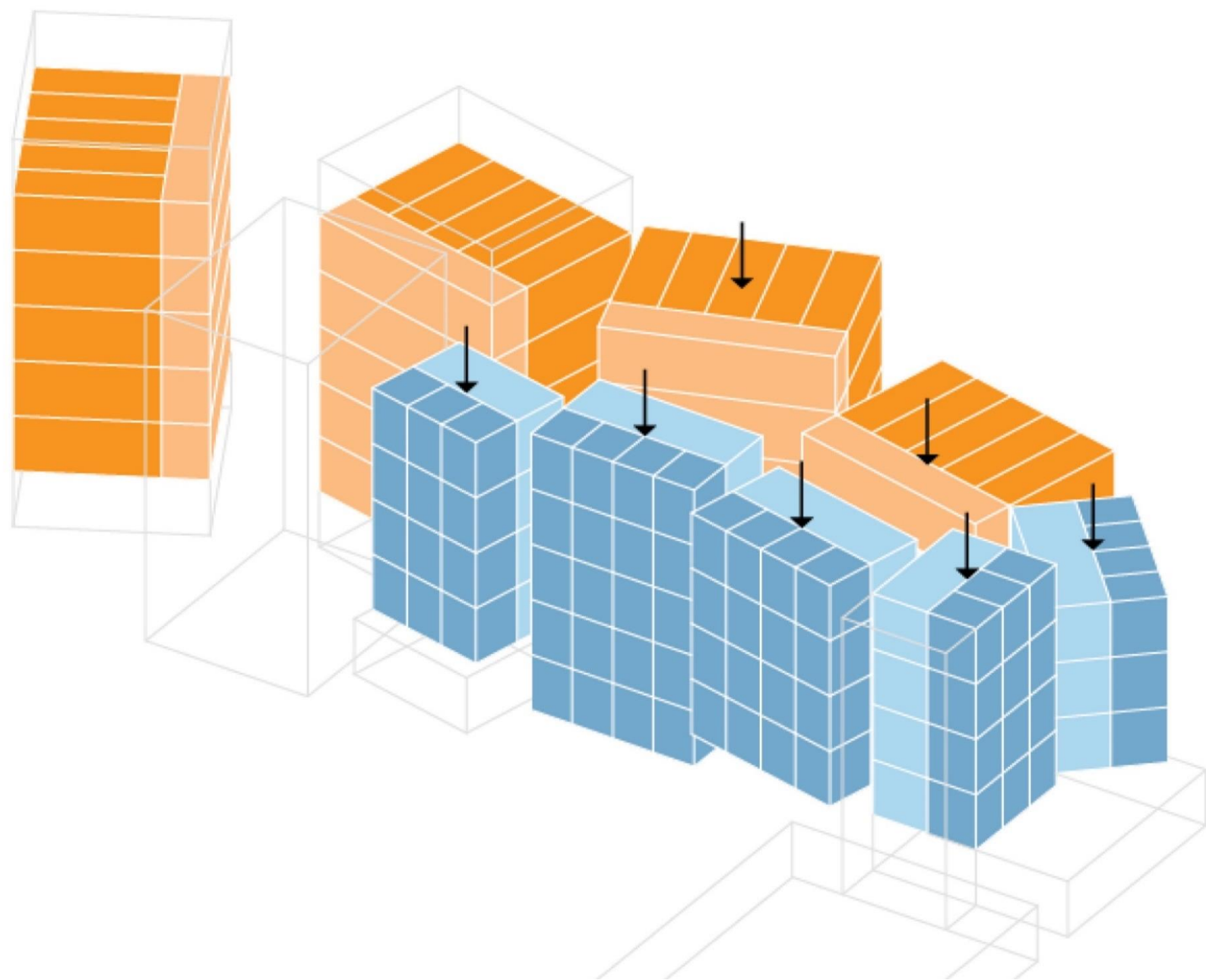












**71%**  
ASF to GSF





An aerial photograph of a suburban neighborhood. The image shows a dense arrangement of houses with various roof colors (brown, grey, red), interspersed with green trees and lawns. A network of roads and parking lots is visible. The overall scene is a typical suburban residential area.

**Design is...  
for the  
birds**



# CLIFF SWALLOW





# CLIFF SWALLOWS!!!



## METHODS FOR EXCLUDING CLIFF SWALLOWS FROM NESTING ON HIGHWAY STRUCTURES

Final Report CA05-0926  
August 24, 2009

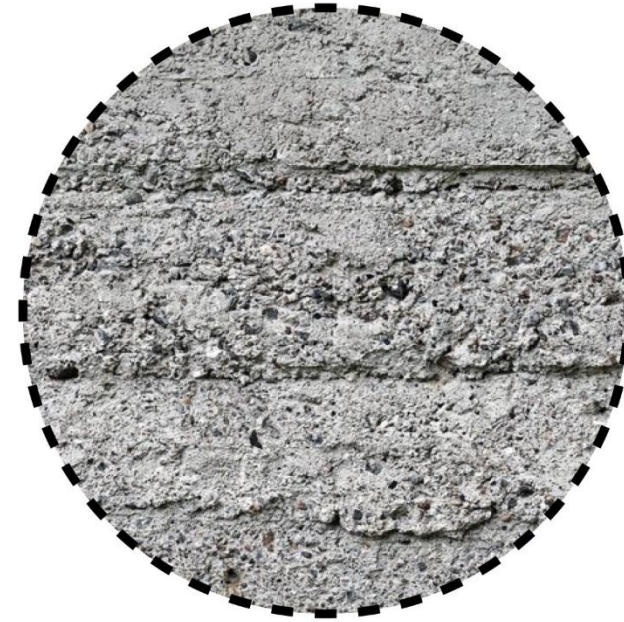
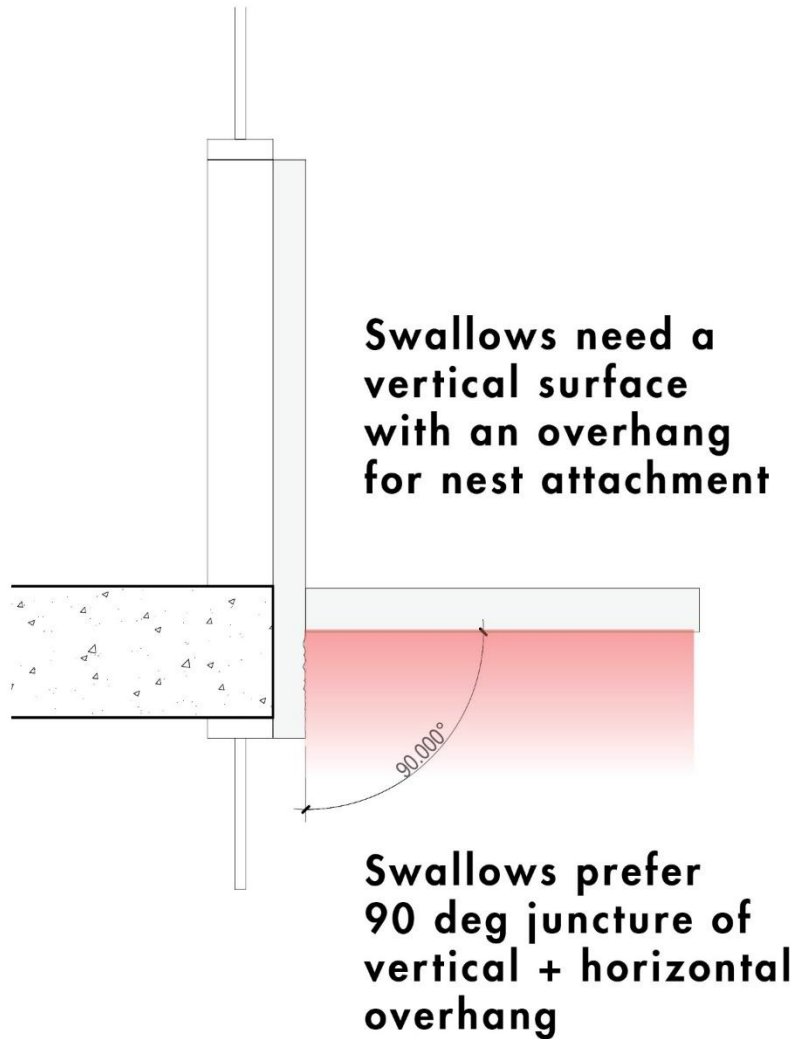


*Prepared for:*  
State of California  
Department of Transportation  
Division of Research and Innovation  
Office of Materials and Infrastructure Research  
1101 R Street  
Sacramento, CA 95811

*Prepared by:*  
Robert W. Coates, Michael J. Delwiche<sup>1</sup>  
W. Paul Gorenzel, Terrell P. Salmon<sup>2</sup>  
<sup>1</sup>Biological & Agricultural Engineering  
<sup>2</sup>Wildlife, Fish, and Conservation Biology  
University of California, Davis  
One Shields Avenue  
Davis, CA 95616

**UC DAVIS**  
UNIVERSITY OF CALIFORNIA

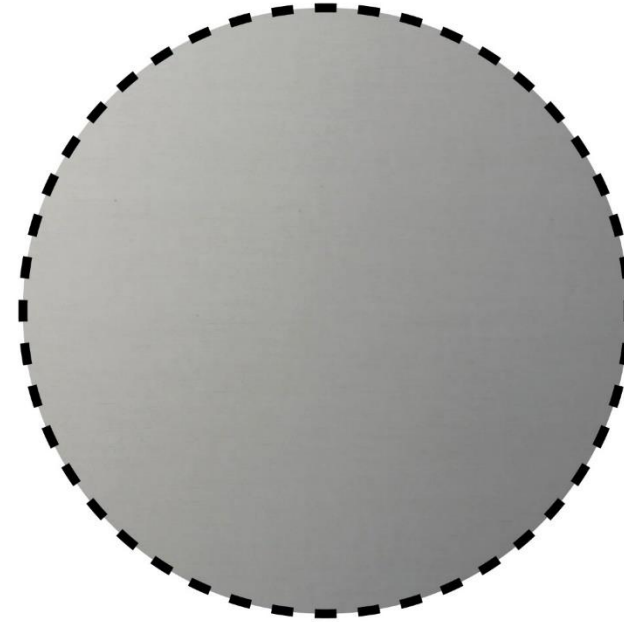
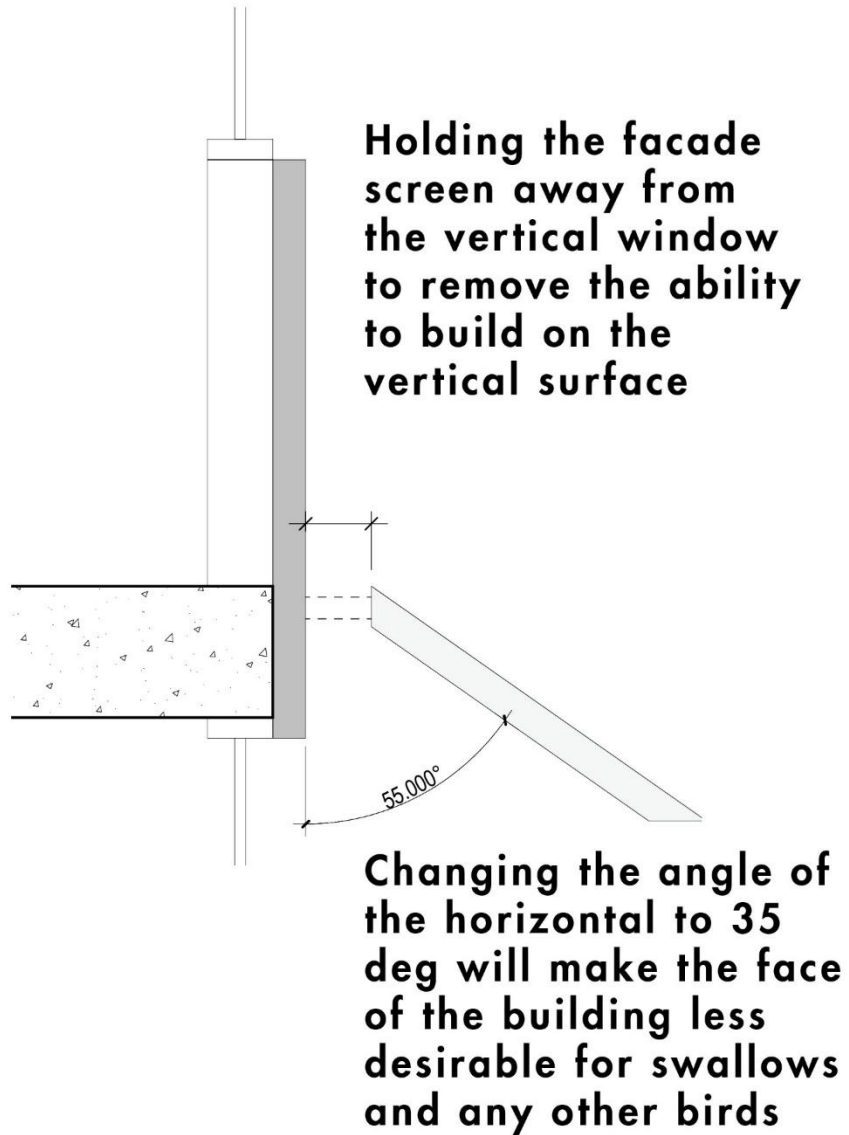
# NESTING REQUIREMENTS



Substrate texture affects nest attachment, swallows prefer rough uneven surfaces that provide a good foothold and suitable surface for nest attachment

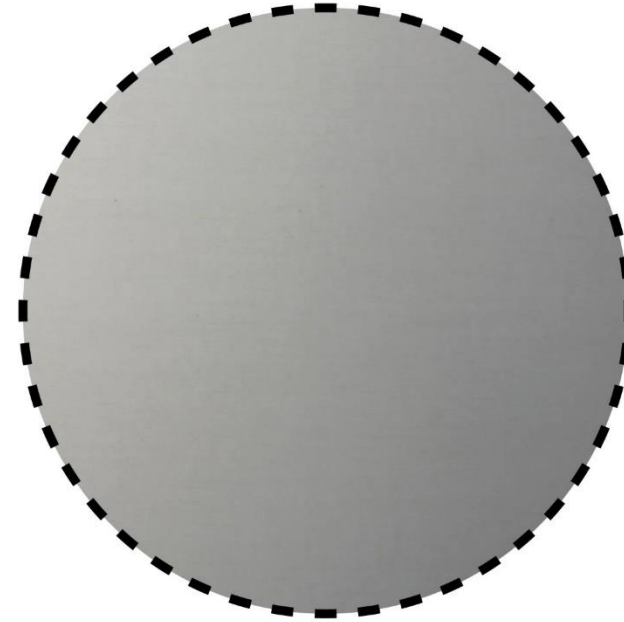
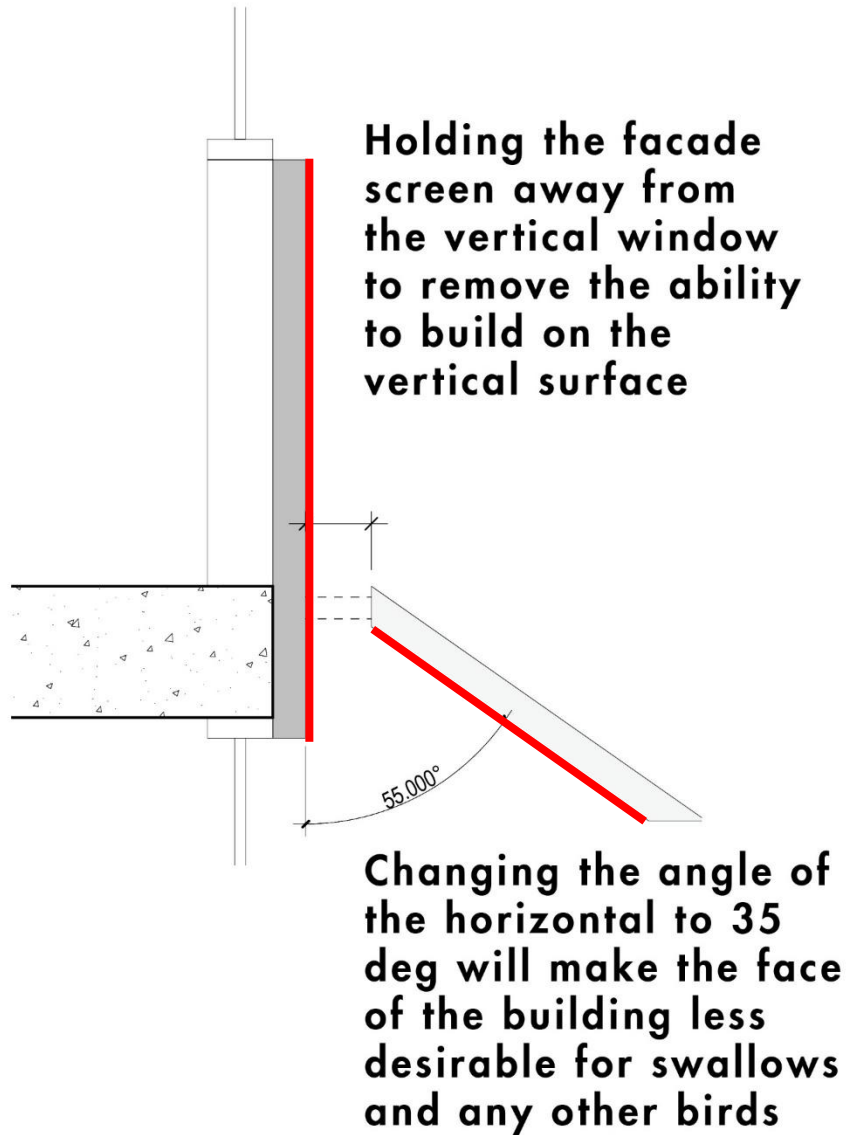


# MITIGATION



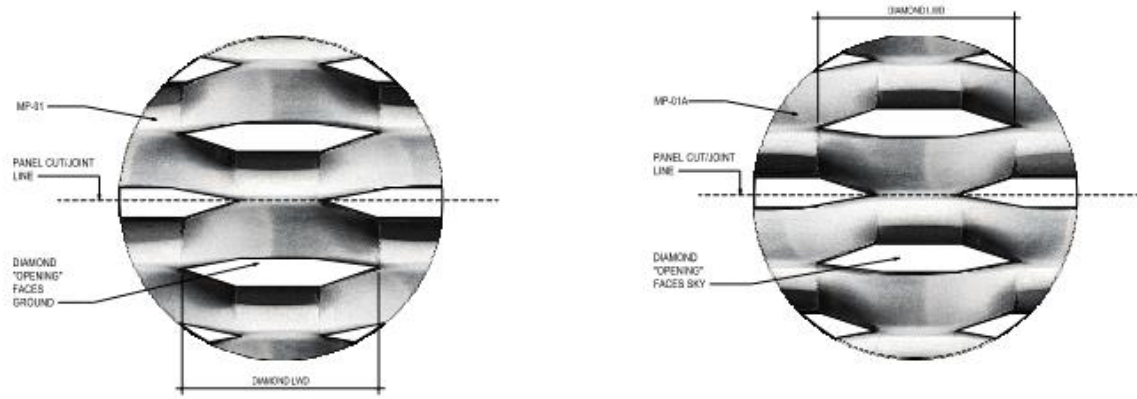
Choosing a substrate texture that is smoother will affect swallows ability to find a good foothold and suitable surface for nest attachment

# MITIGATION



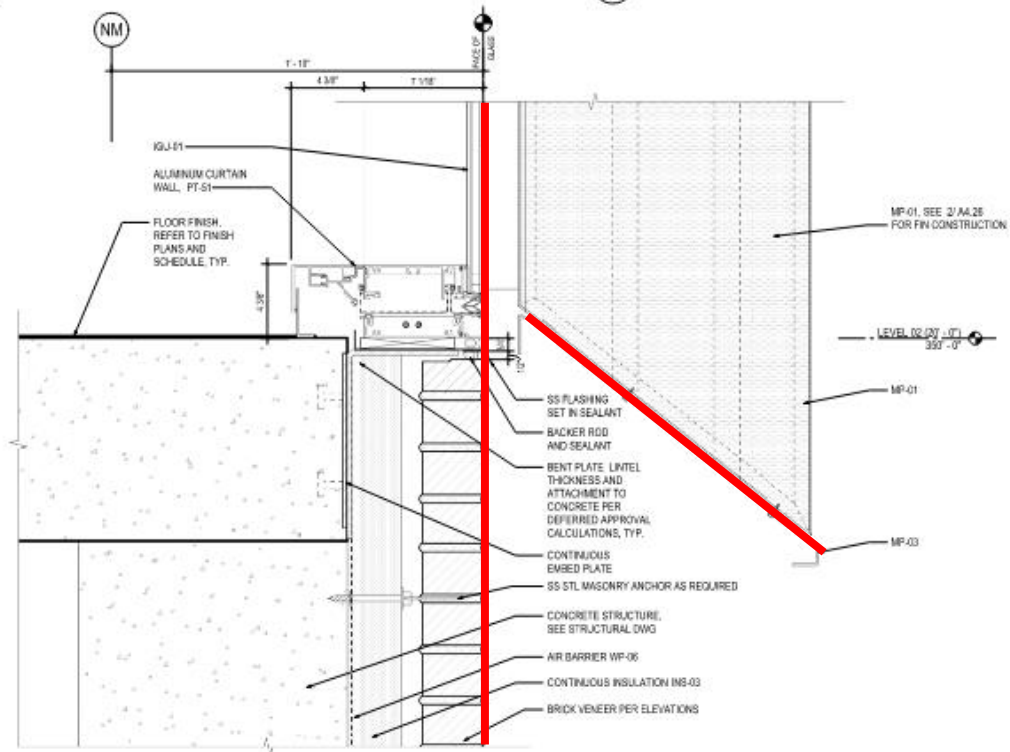
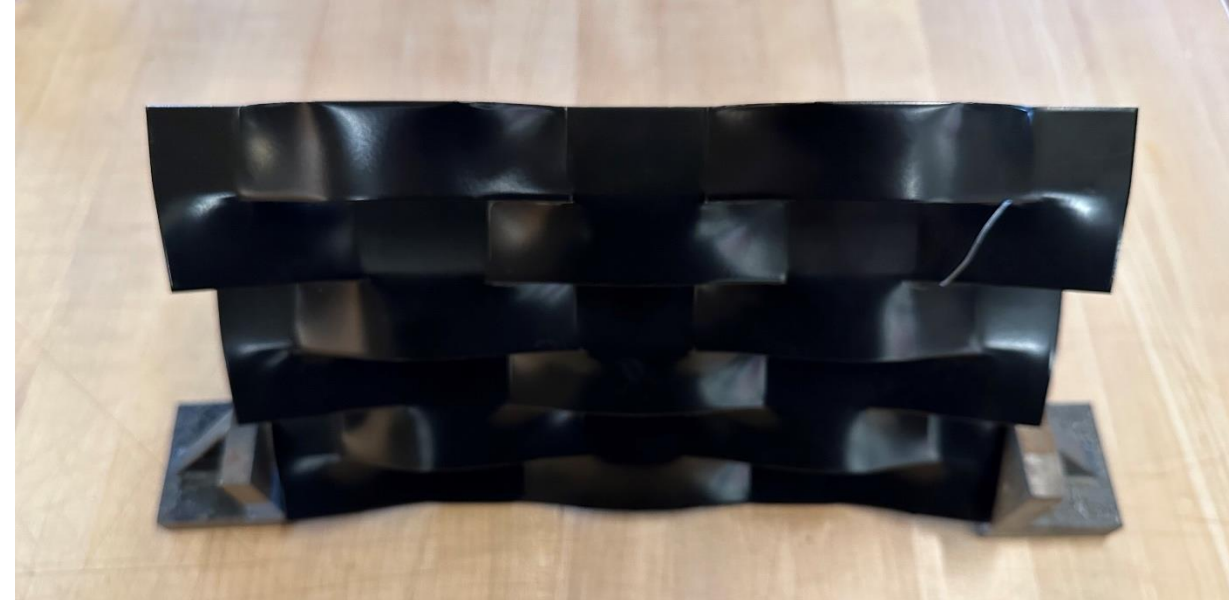
Choosing a substrate texture that is smoother will affect swallows ability to find a good foothold and suitable surface for nest attachment



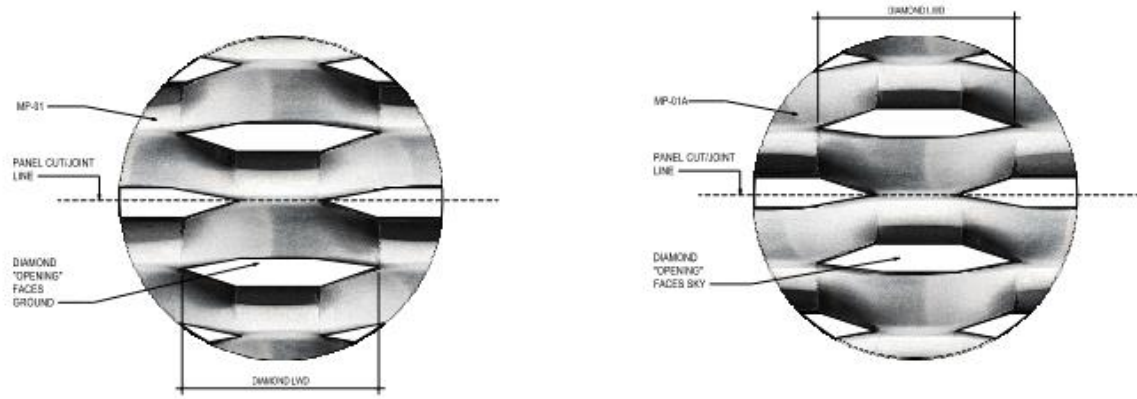


3 EXPANDED METAL MESH - PATTERN ORIENTATION AT FINS  
A4.24 1' 10" = 1'-0"

2 EXPANDED METAL MESH - PATTERN ORIENTATION AT ROOF SCREEN  
A4.24 1' 10" = 1'-0"

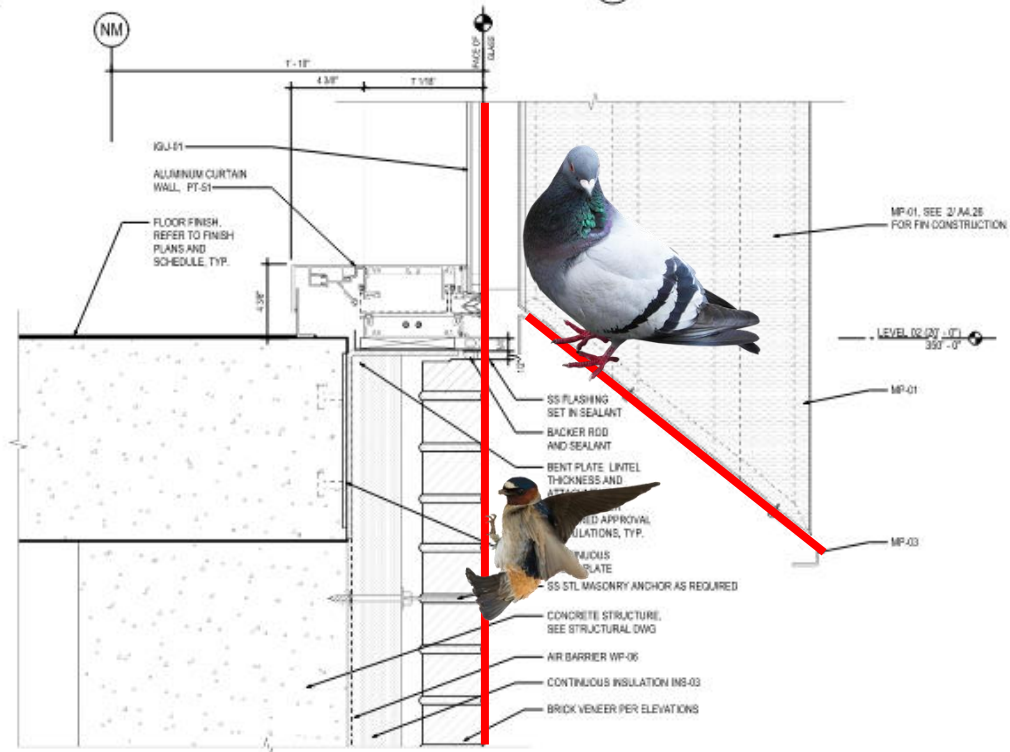
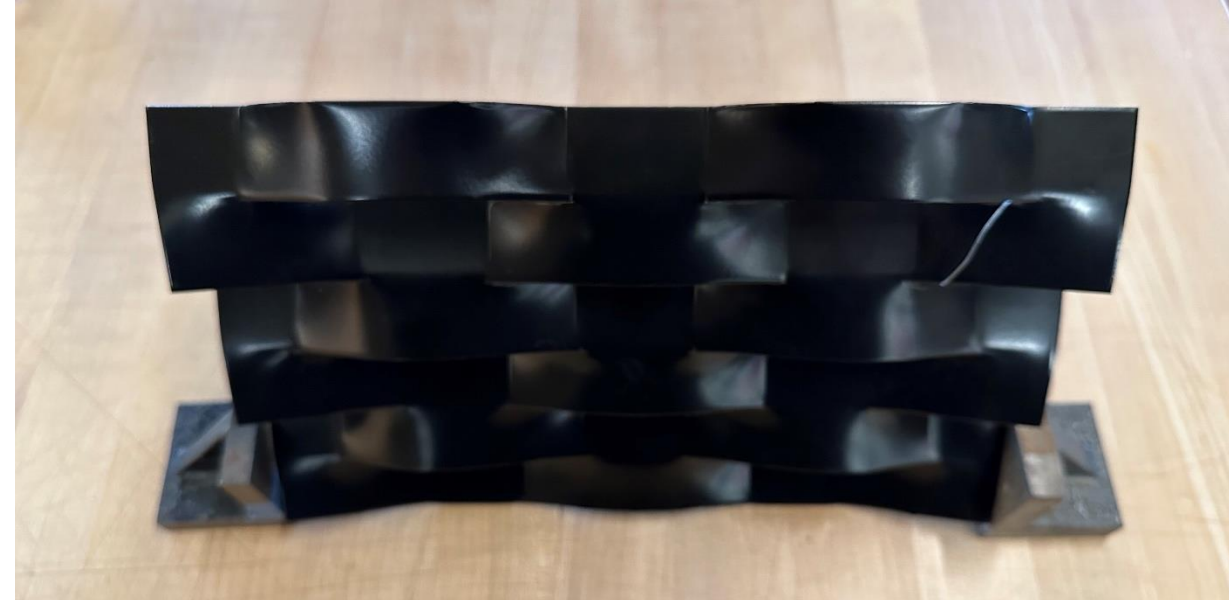


4 SECTION DETAIL - CURTAIN WALL SILL AT BRICK  
A4.24 3' = 1'-0"



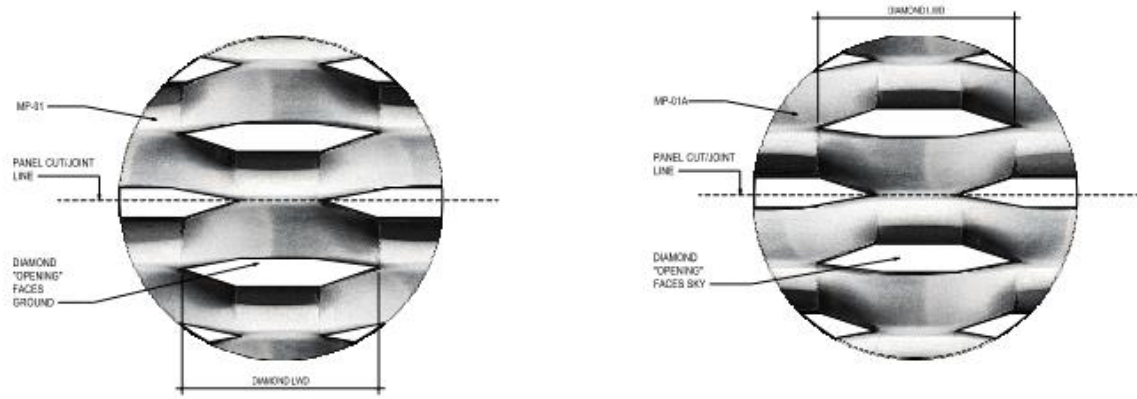
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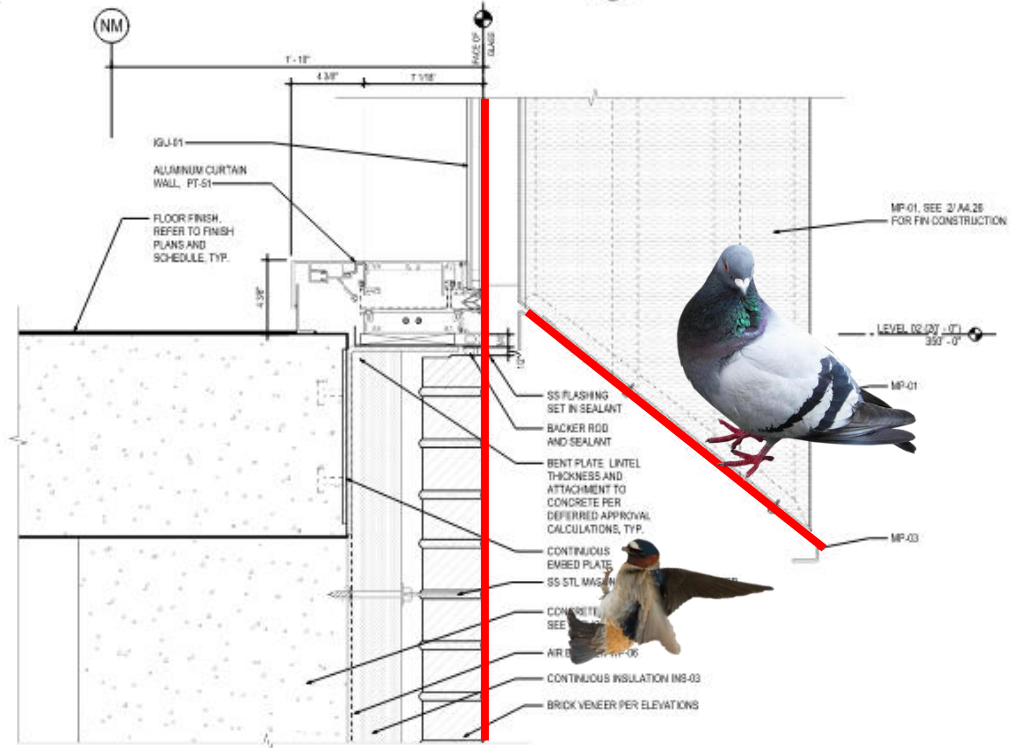
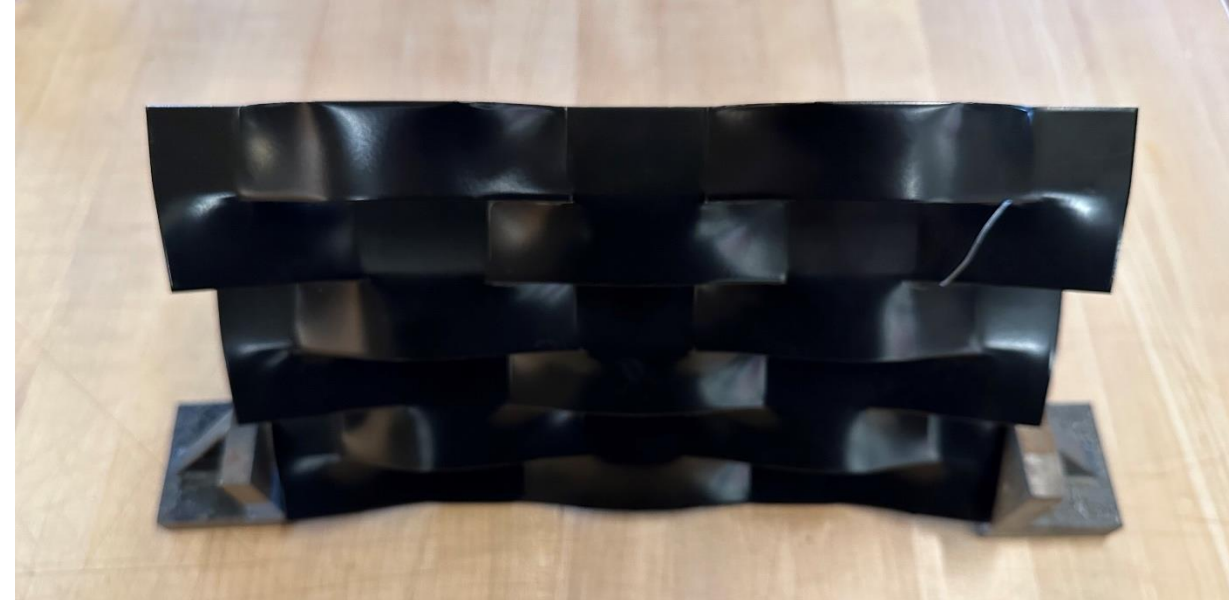
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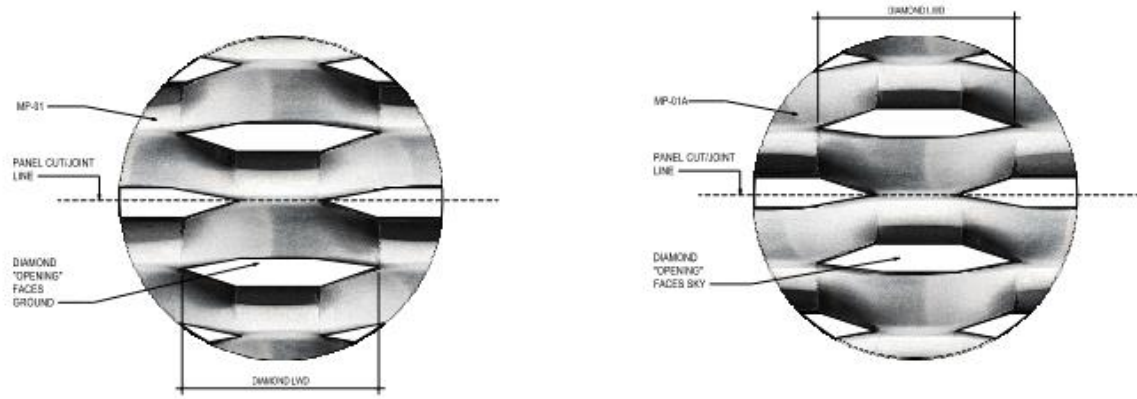


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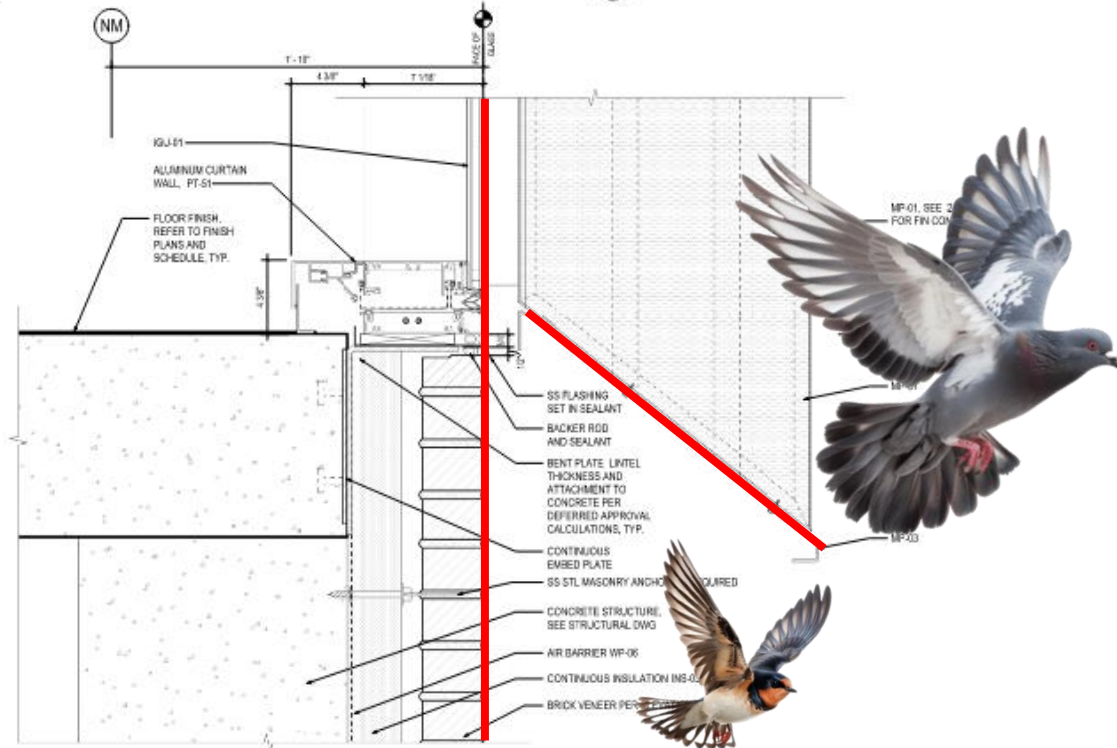
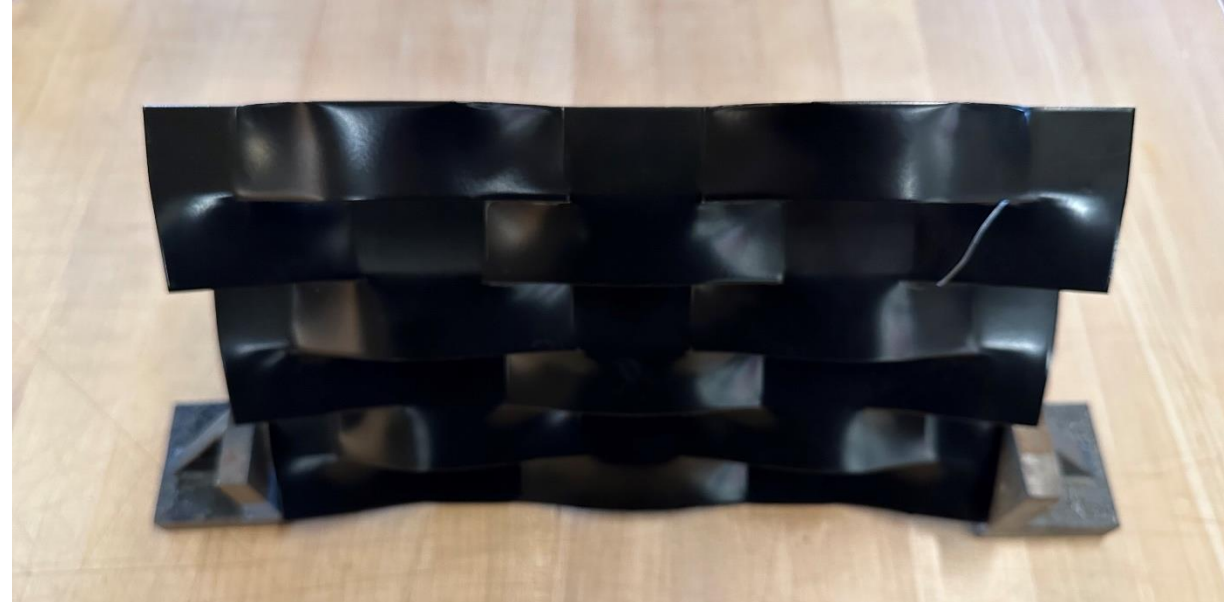


4 SECTION DETAIL - CURTAIN WALL SILL AT BRICK  
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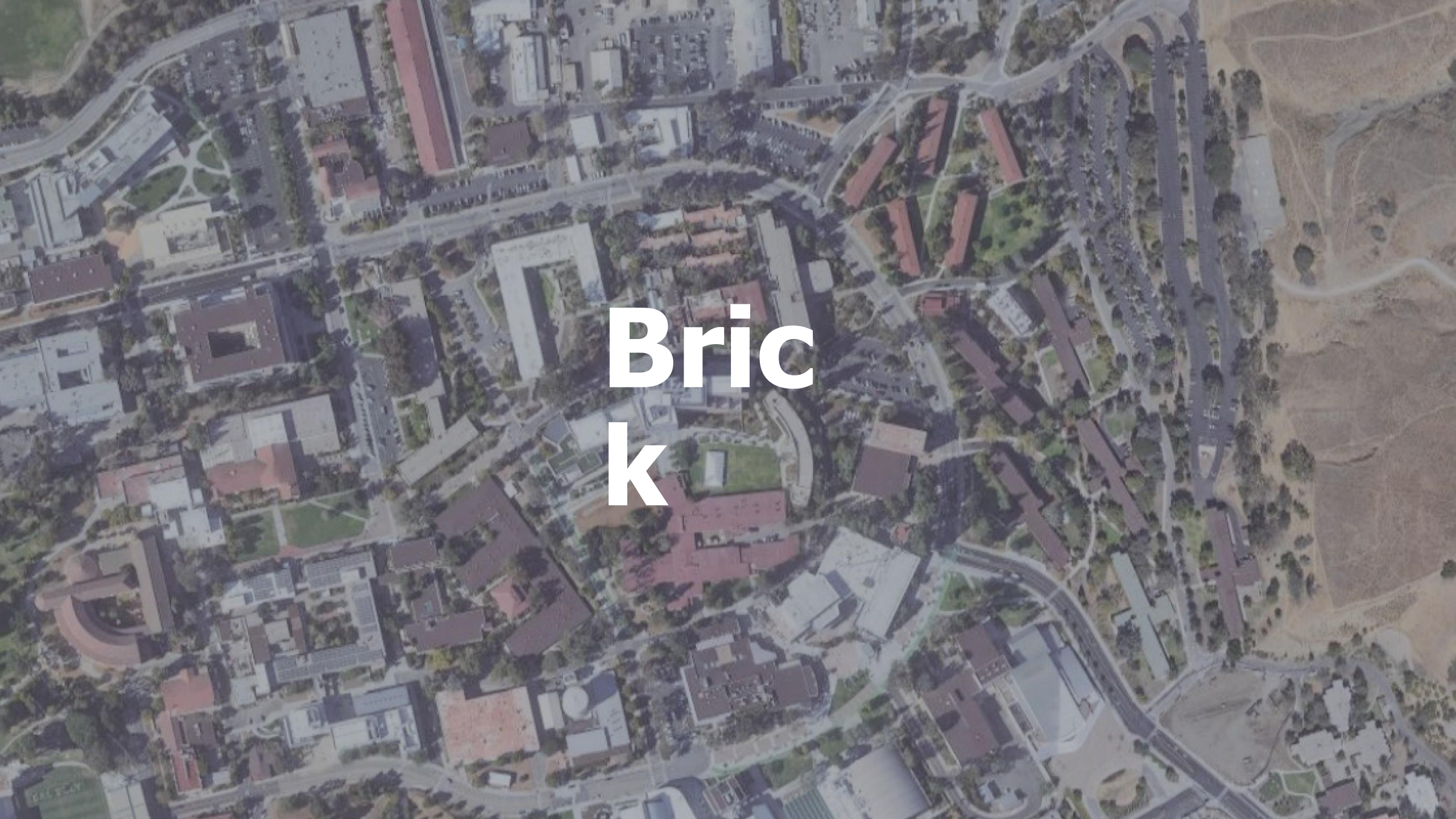


4 SECTION DETAIL - CURTAIN WALL SILL AT BRICK  
A4.24 3' = 1'-0"



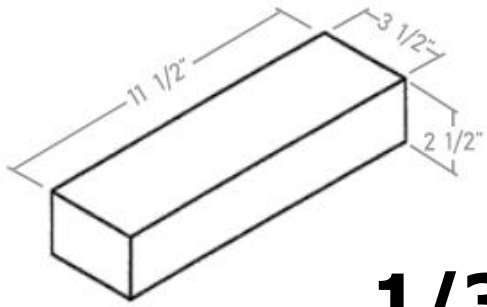




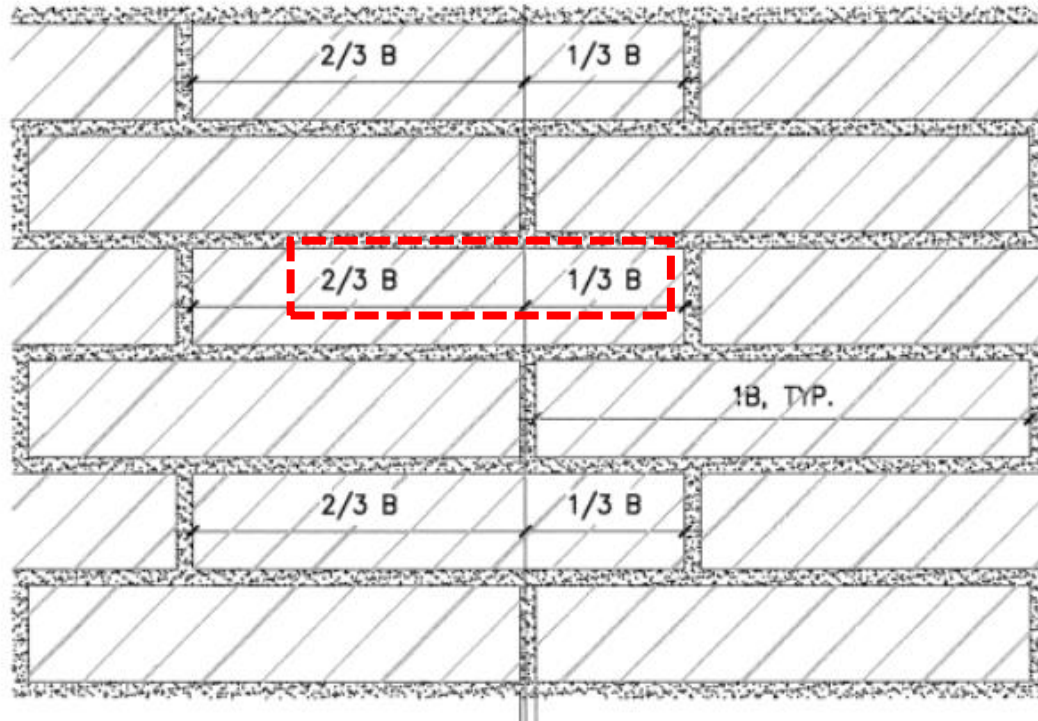
An aerial photograph of a suburban neighborhood. The image shows a dense collection of houses with various roof colors, including red, brown, and grey. There are many green trees scattered throughout the area, and winding roads are visible. The overall scene is a typical suburban residential area.

# Brick

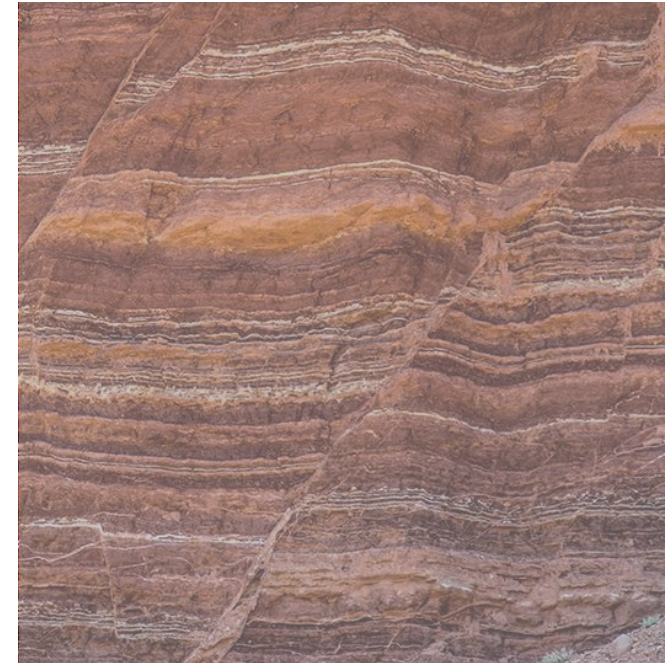




## 1/3 OFFSET RUNNING BOND



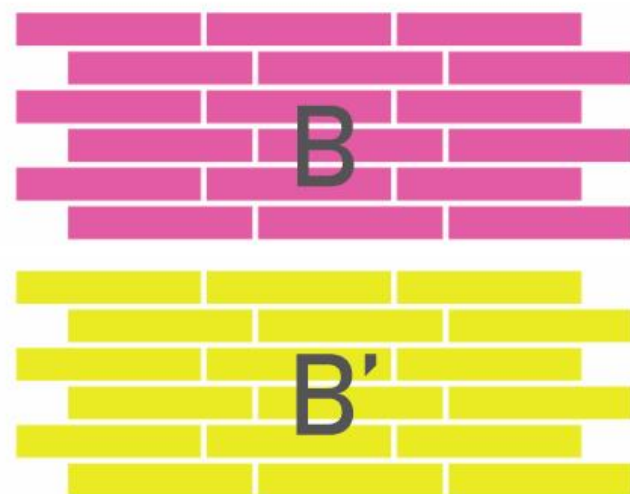
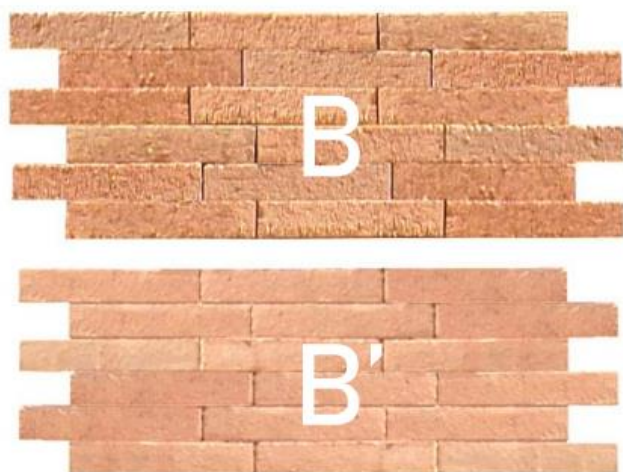
# SEDIMENTAR Y



Saltillo Brick



UCR Brick

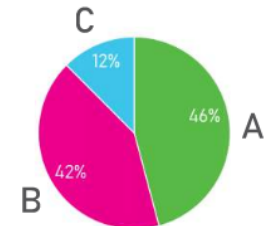


Pueblo Brick

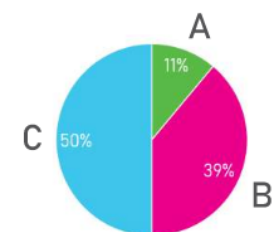




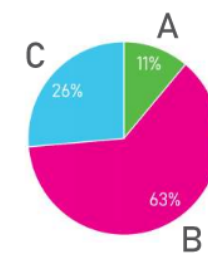
Mix 1



Mix 2



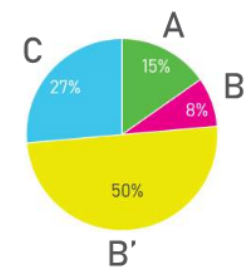
Mix 3



Mix 4



Mix 5



Mix 1



- 46%: A 
- 42%: B 
- 12%: C 

Mix 2



- 11%: A 
- 39%: B 
- 50%: C 

Mix 3



- 11%: A 
- 63%: B 
- 26%: C 

Mix 4



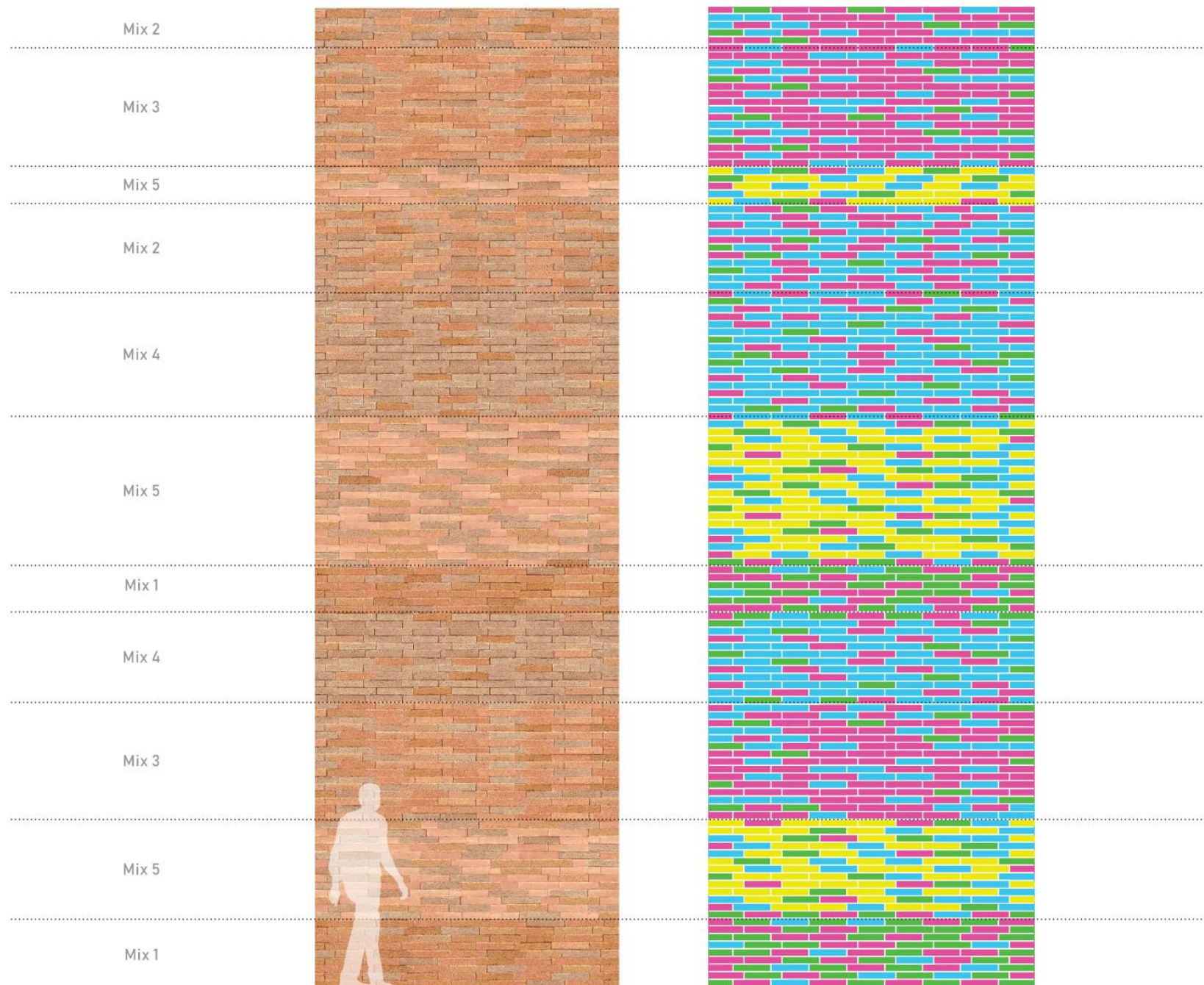
- 12%: A 
- 25%: B 
- 63%: C 

Mix 5



- 15%: A 
- 8%: B 
- 50%: B' 
- 27%: C 







@ PACIFIC CLAY





An aerial photograph of a suburban neighborhood. The image shows a dense arrangement of houses with various roof colors (brown, grey, red) interspersed with green trees and lawns. A winding road runs through the center of the neighborhood. In the upper right corner, there is a large, open, dry field. The overall scene is captured from a high angle, looking down on the landscape.

# Discere Faciendo





WILLIAM AND LINDA FROST  
CENTER FOR RESEARCH  
AND INNOVATION  
181

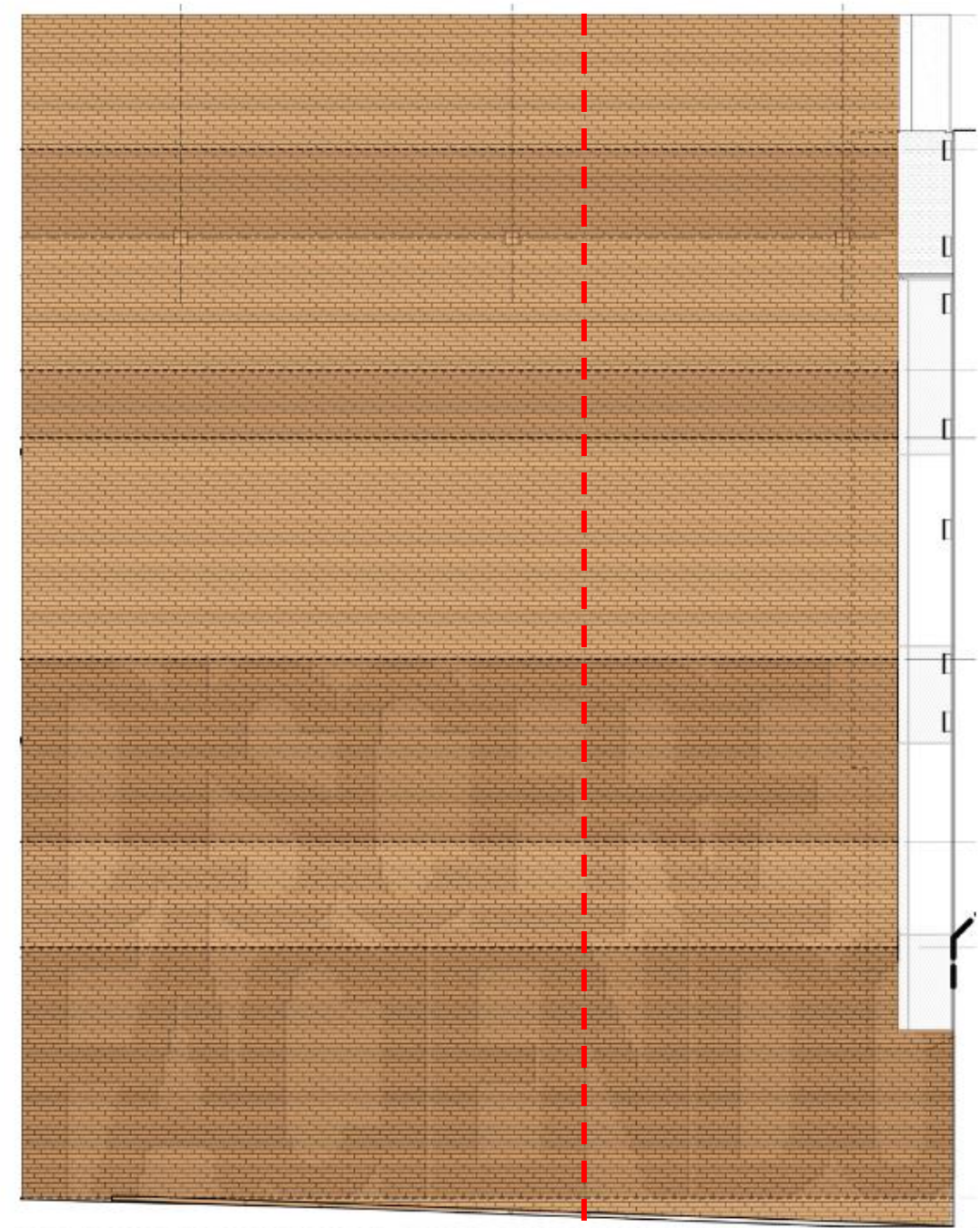


Typography

**DISCERE  
FACIENDO**



Breezeway







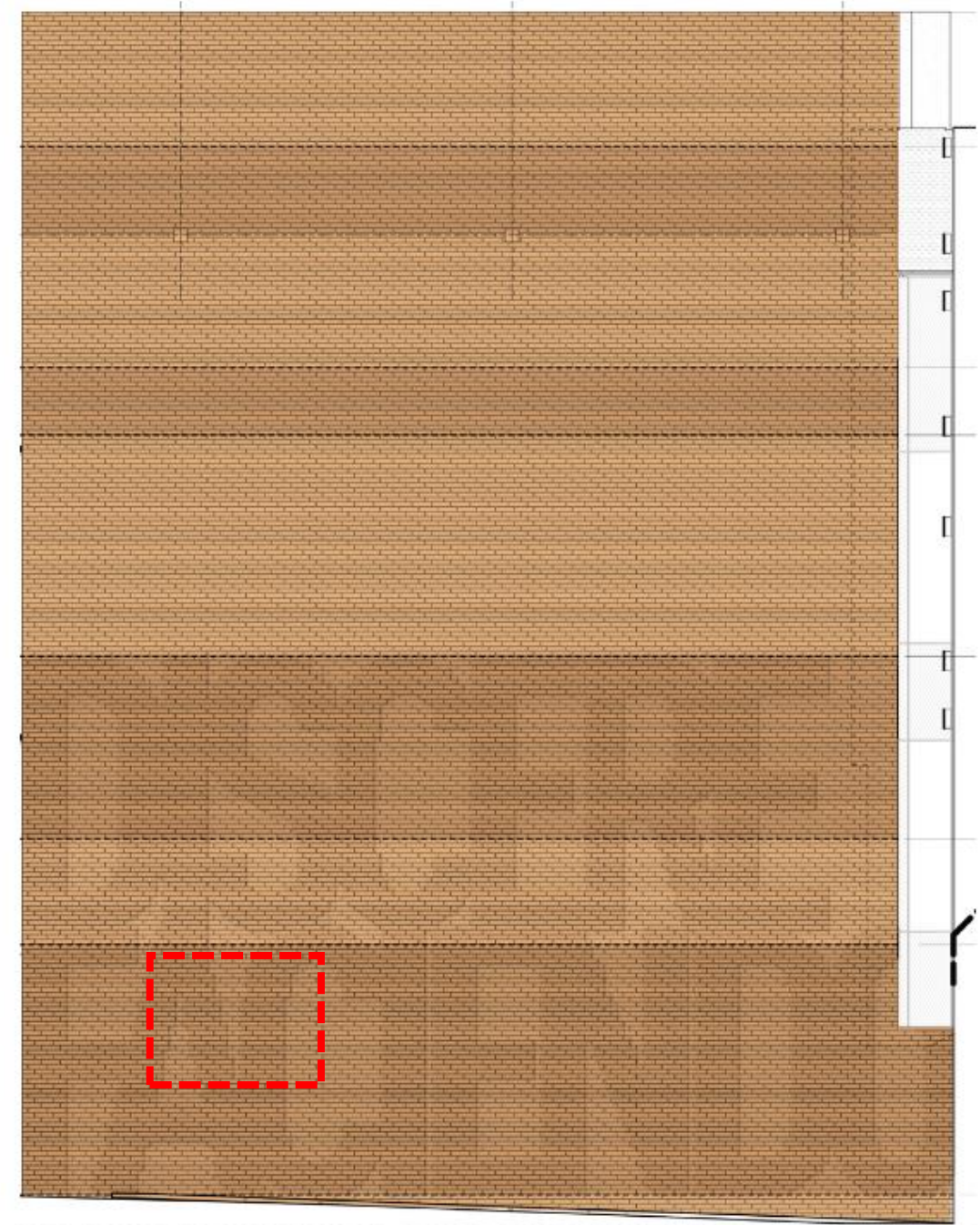


Typography

**DISCERE  
FACIENDO**

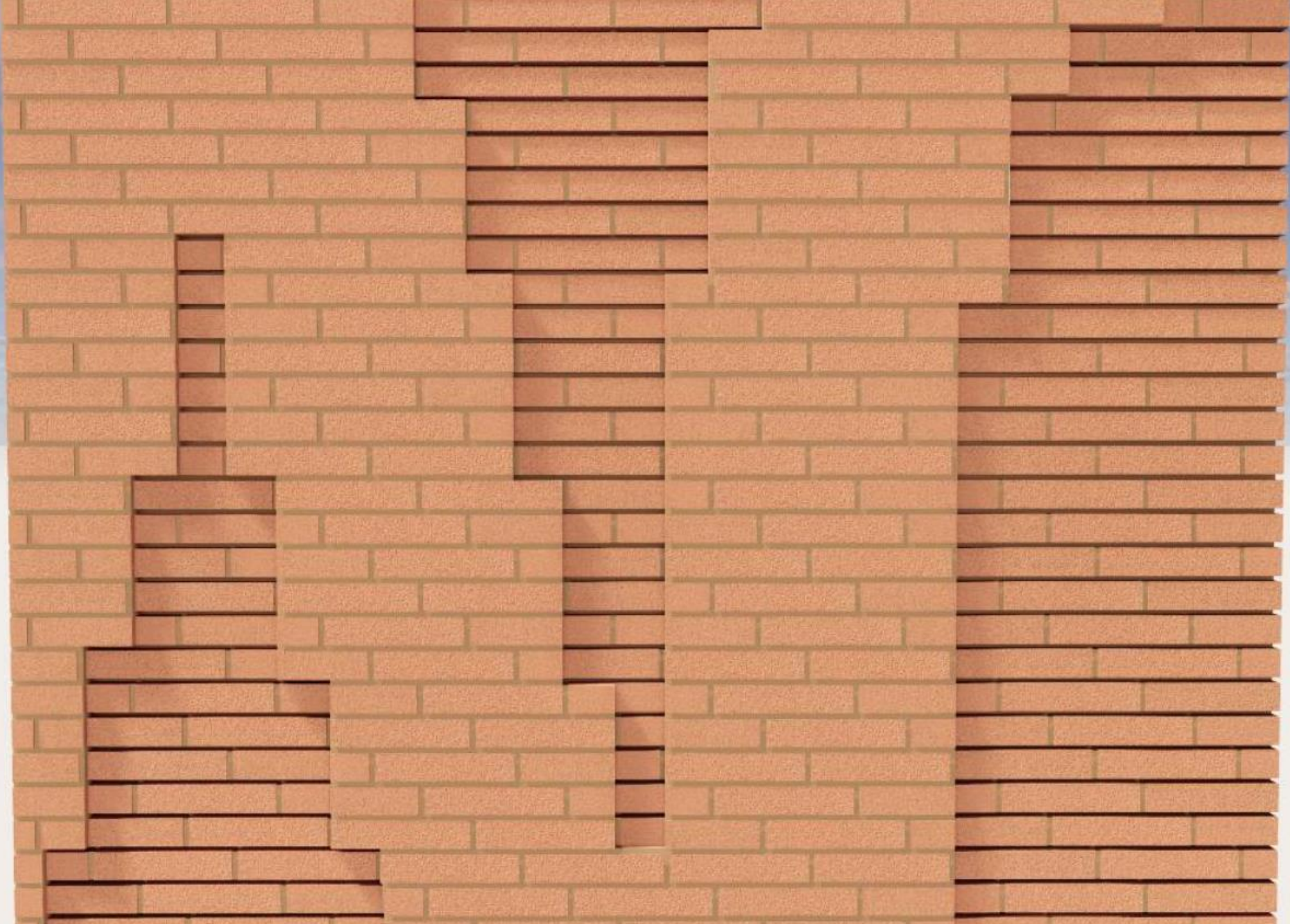


Breezeway





FLUSH





FLUSH





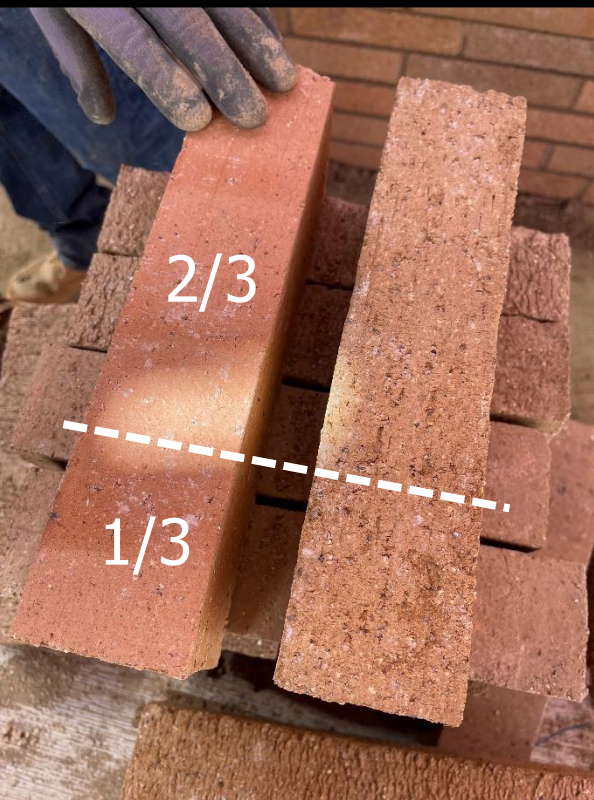
@ WINEGARDNER



























































**WILLIAM  
AND LINDA  
FROST**  
•  
**CENTER FOR RESEARCH  
AND INNOVATION**

**WILLIAM AND LINDA FROST  
CENTER FOR RESEARCH AND INNOVATION**

With their commitment to Cal Poly's College of Science and Mathematics in 2017, William Frost, 212 Boelterway and Linda Frost made the largest gift to the California State University system in its history. Through their generosity and unwavering support, the Frosts have transformed science and mathematics education at Cal Poly, greatly enhancing resources for undergraduate research and providing the first gift to support construction of this four-story, 1.33-acre, state-of-the-art interdisciplinary research center that features configurable classrooms, hands-on learning programs and cutting-edge laboratory space dedicated to undergraduate research.







# Credits

## Winegardner

Casey Ricks, President

Stephen Silliman, Project Manager

Kenny Thompson, Foreman

## Winegardner Crew

Luis Alvarado  
Cristopher Baires  
Yjuan P Bocage  
Raul A Caballero  
Ronaldo S Candelario  
Adrian Cardenas  
Julio Castellanos  
Brian Castillo  
Steve Cooper  
Andres Cruz  
Fermin Cruz  
Jose Jr Davila  
Adan Delgadillo  
Brandon Delgado  
Michael DeNucci  
Josue A Diaz  
Gilberto Dominguez  
Tyrone Z Eugene

Brandon J Flynn  
Mario Fuentes  
Eric G Garcia Cruz  
Sergio Garcia  
Abel Gonzales  
William Gonzalez  
Mauro Jr Guerrero  
Elvis Guevara  
Epigmenio Gutierrez  
Rosendo Hernandez -  
Reyes  
Jesse Hernandez  
Steve Horcasitas  
Christopher M Kubesh  
Felix Lopez  
Francisco Madrigal  
Shane Mahnesmith  
Jose J Jr Marcelo  
Antonio G Martinez

Jose G Martinez  
Leopoldo Martinez  
Joshua Medina  
Edgar A Jr. Medina  
Edgar M Sr. Medina  
Leonardo Mendoza-  
Sandoval  
Juan C Meza  
Joseph D Moya  
Reginaldo Nevarez  
Jose Pereida  
Luis G Perera  
Marco A Posada-  
Vazquez  
Brandon S Robbins  
Pascual A Rodriguez  
Felipe Ruvalcaba  
Leobardo Ruvalcaba  
Moises Salazar  
Manuel Jr. Salsberry

Jose A Sanchez  
Eric S Schrader  
Max R Searle  
Humberto G Silva  
Christopher Solorio  
Ariel I Solorzano Abarca  
Jose Soto  
Andy Suarez  
Willie Talley  
Reinhardt Theron  
Kenneth J Thompson  
Leonardo Torres  
Valderrama  
Fabian Torres  
Ivan Torres  
Westley T Van -  
Greuningen  
Humberto Vargas  
Juan C Vazquez  
Calvin Warren  
Marvin Williams

## Pacific Clay

Josh Higgins

## Cal Poly San Luis Obispo

**ZGF** - Architecture

**JAMA** - Structural

**AEI** - MEP

**RFD** - Lab Planning

**Sherwood** - Civil

**JLJA** - Landscape

**Vantage** - Technology

**CIA** - Food Service

**Gilbane** - CM





# TIMELESSNESS: The Legacy of Brick





















*A Prospect of the Colledges in Cambridge in New England*

*N. Howard*

*J. Loughton*

*J. Mather*



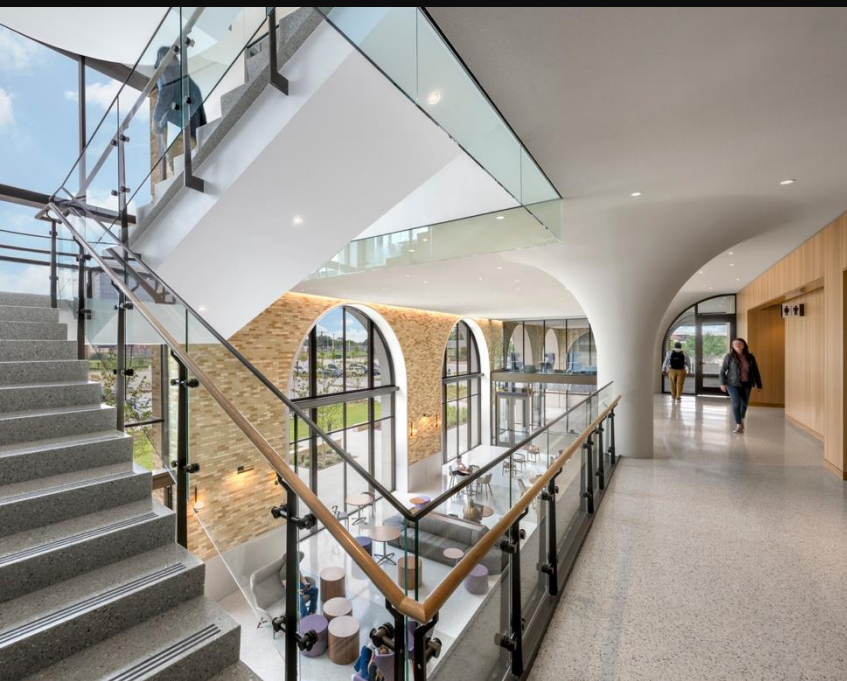
CO ARCHITECTS





CO ARCHITECTS





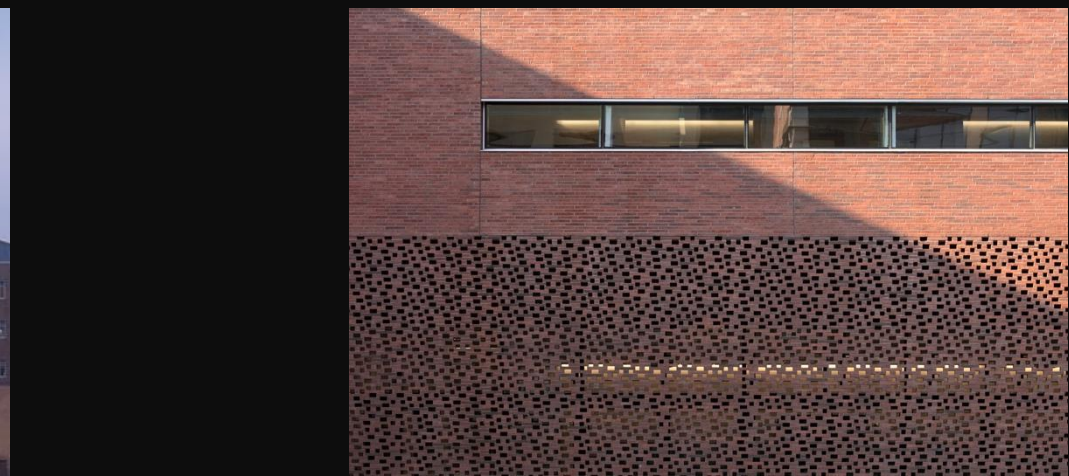
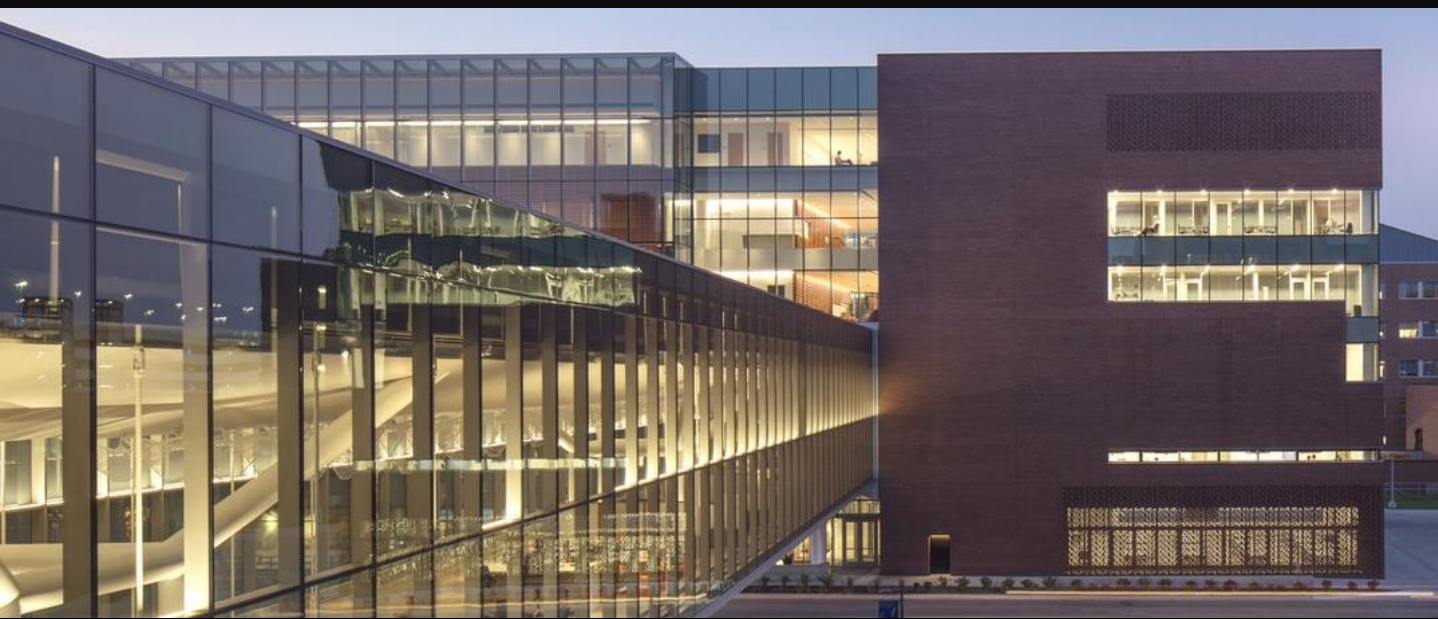
CO ARCHITECTS





**CO ARCHITECTS**





CO ARCHITECTS



Established 1954;  
fourth in the UC  
system.

Approximately  
26,000 students  
today.

Core campus:  
600 acres  
Agriculture Research:  
500 acres

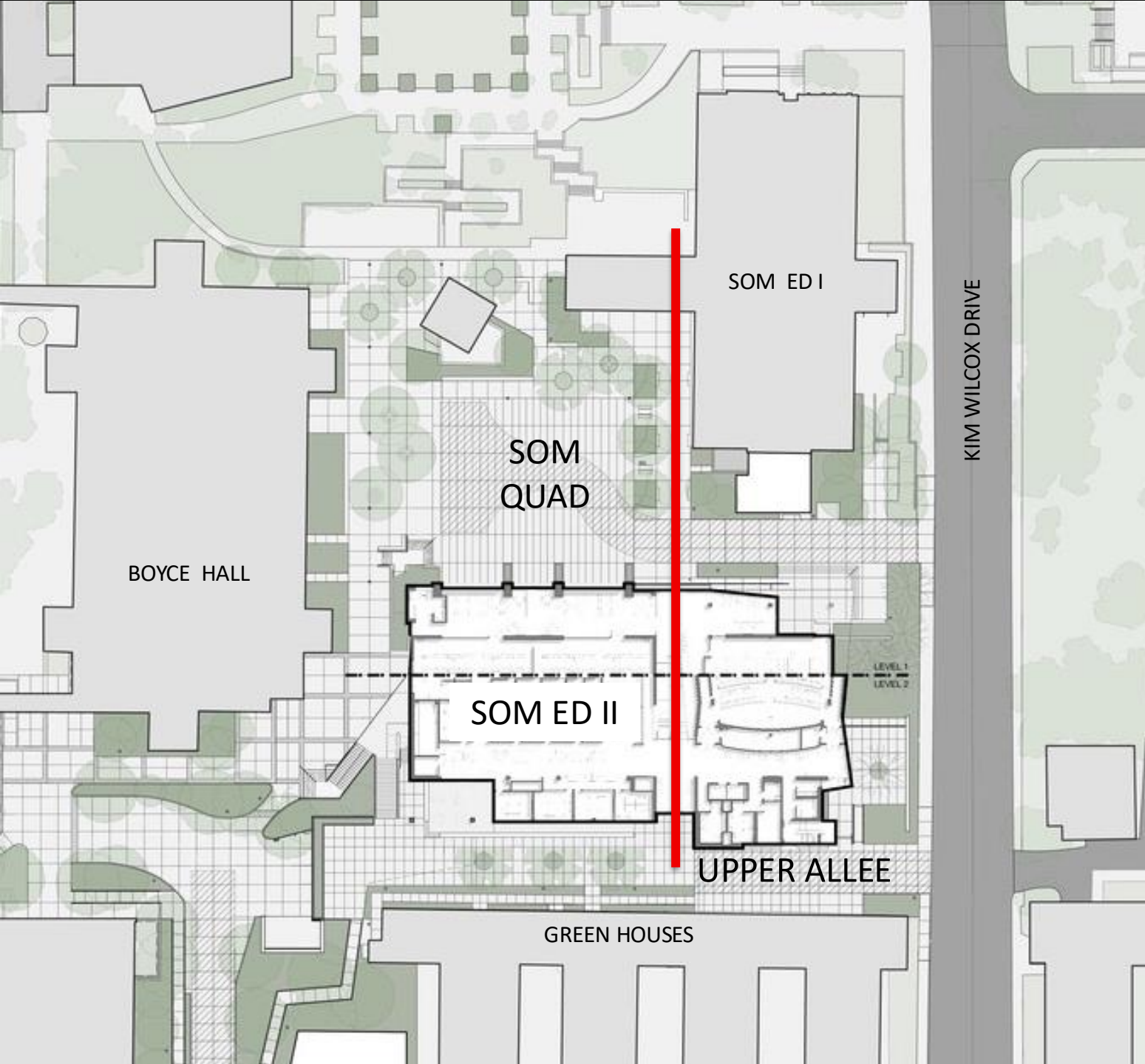




# UC Riverside Historic Core







## Quick Facts

Team Contractor: **Hensel Phelps**

Competition Phase: **11/2020 ~ 02/2021**

Design Phase: **03/2021 ~ 03/2022**

Construction Phase: **08/2021 ~ 09/2023**

Size: **90,600 GSF**      Cost: **\$88.7M**

Sustainability: **LEED Platinum**

**CO ARCHITECTS**













SCHOOL OF MEDICINE EDUCATION II

895





CO ARCHITECTS





CO ARCHITECTS





CO ARCHITECTS

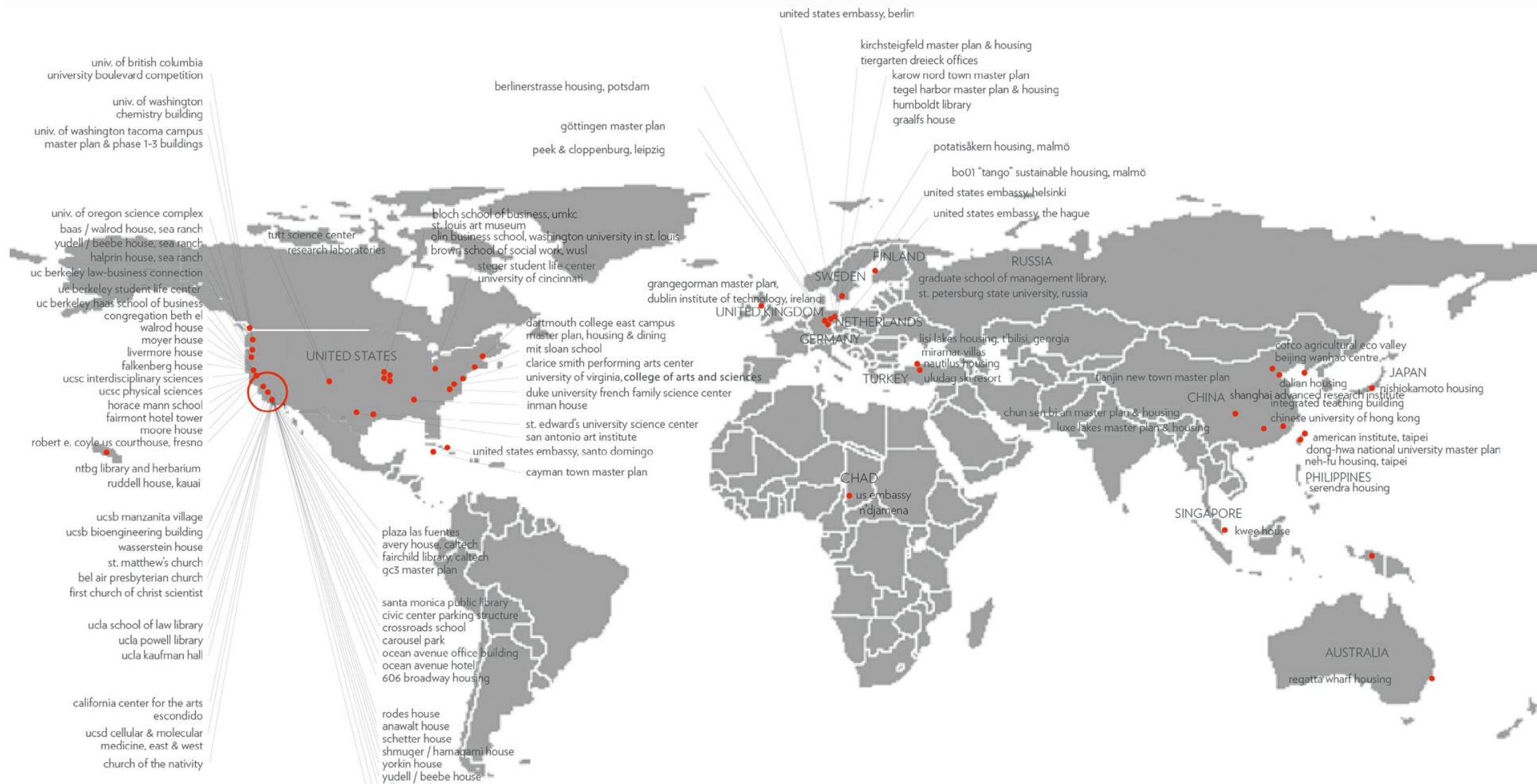




THANK YOU



# Moore Ruble Yudell: a Global Practice





# Campus Architecture & Planning



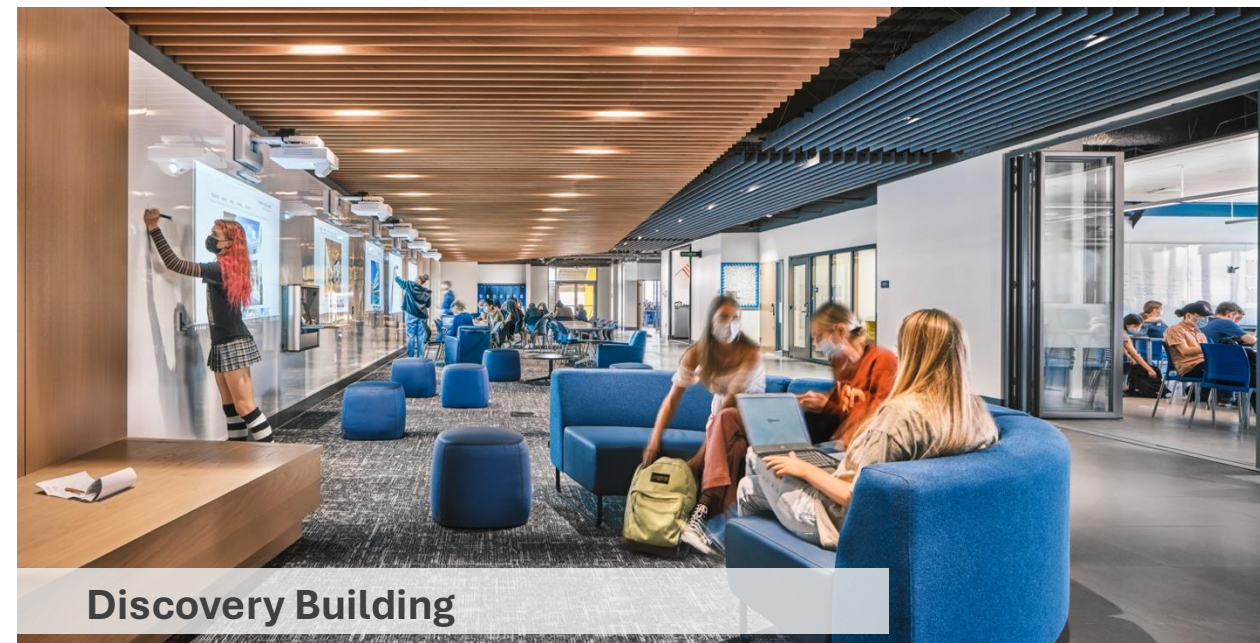
**U. Denver Community Commons**



**UC Berkeley Lower Sproul**



**UC Santa Barbara Bioengineering**



**Discovery Building**

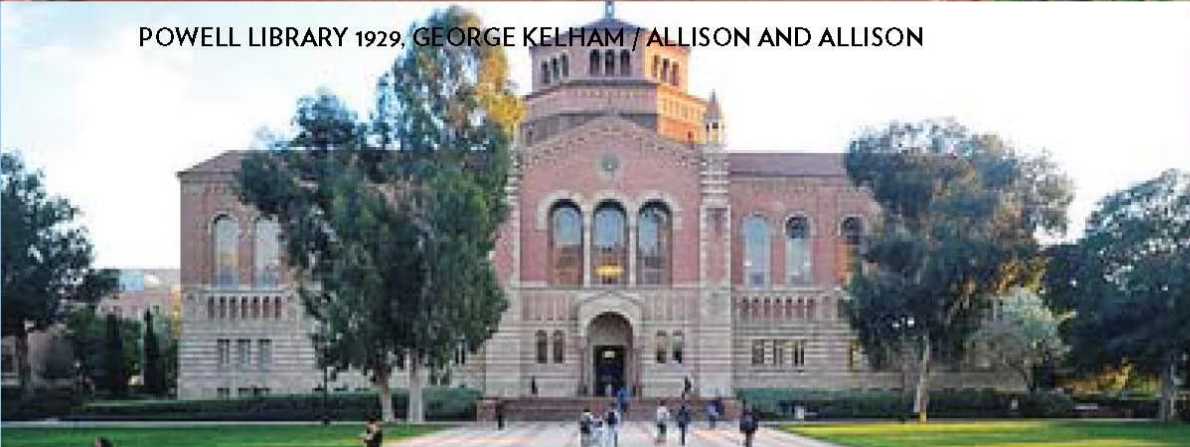




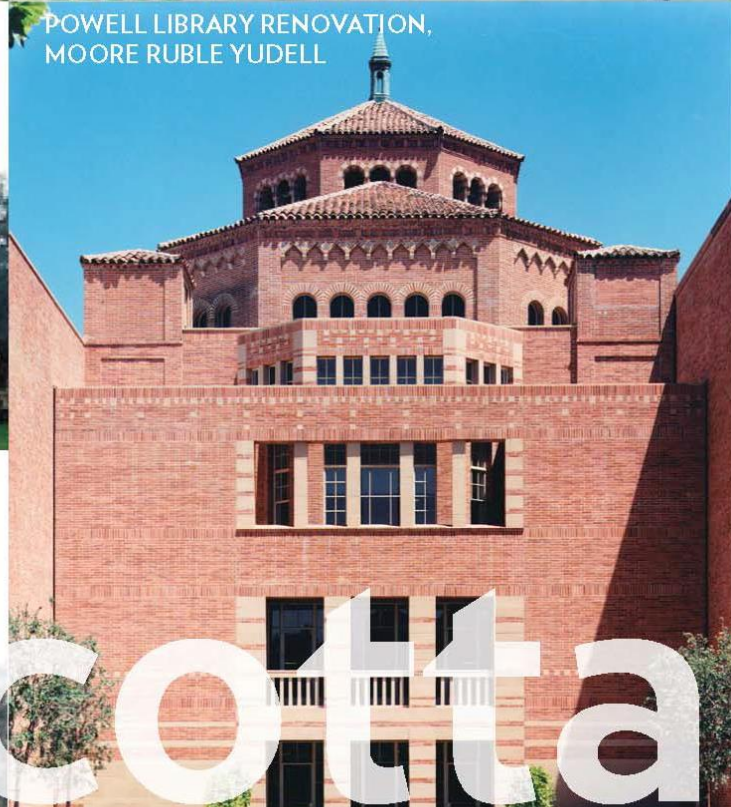
ROYCE HALL 1929, GEORGE KELHAM / ALLISON AND ALLISON



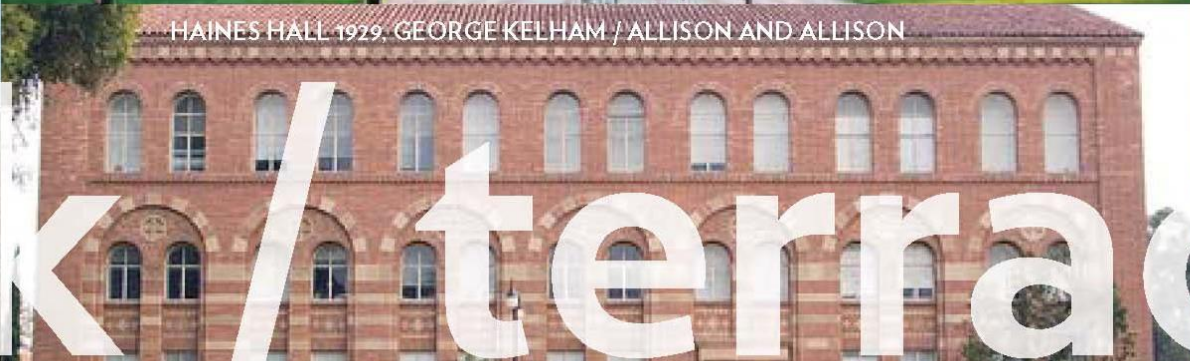
DARLING LAW LIBRARY, MOORE RUBLE YUDELL



POWELL LIBRARY 1929, GEORGE KELHAM / ALLISON AND ALLISON



POWELL LIBRARY RENOVATION,  
MOORE RUBLE YUDELL



HAINES HALL 1929, GEORGE KELHAM / ALLISON AND ALLISON

brick / terracotta



# Powell Library



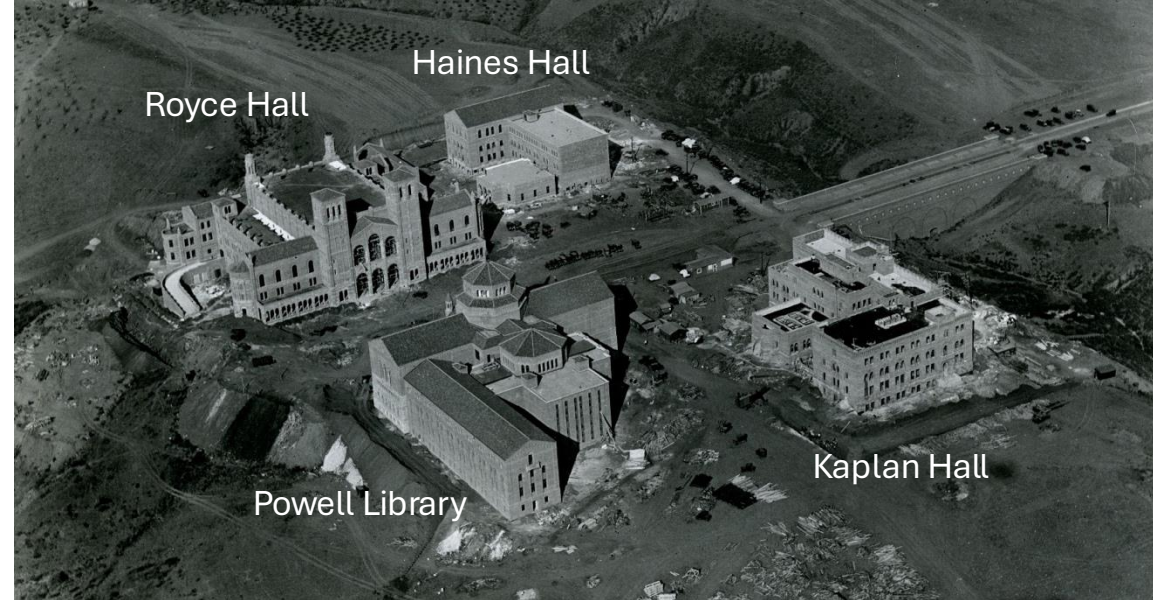




**Historic Landmark:** One of UCLA's original four campus buildings, dedicated in 1929

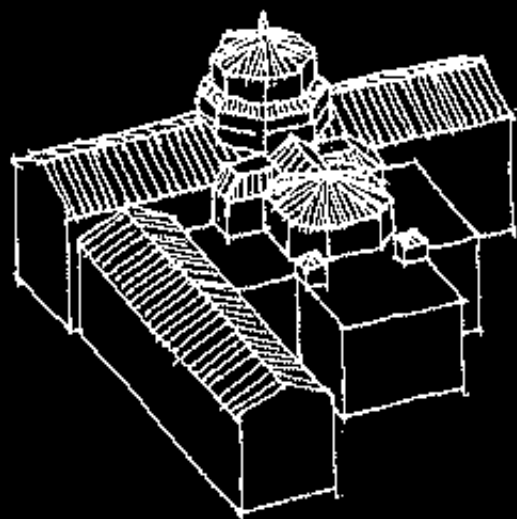
This is a wide-angle aerial photograph of the Westwood Campus in 1928. The image shows a large, sprawling campus with several large, multi-story buildings. The campus is surrounded by a mix of open fields and wooded areas. In the background, a range of mountains is visible under a clear sky. The overall scene depicts a well-planned academic environment.

**Aerial View of Westwood Campus, 1928 - University Archives**

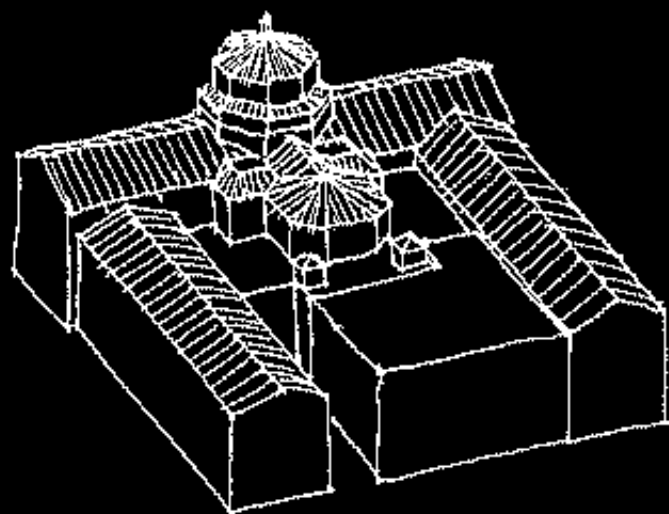


**Dedication of Westwood Campus, October 1926 -**

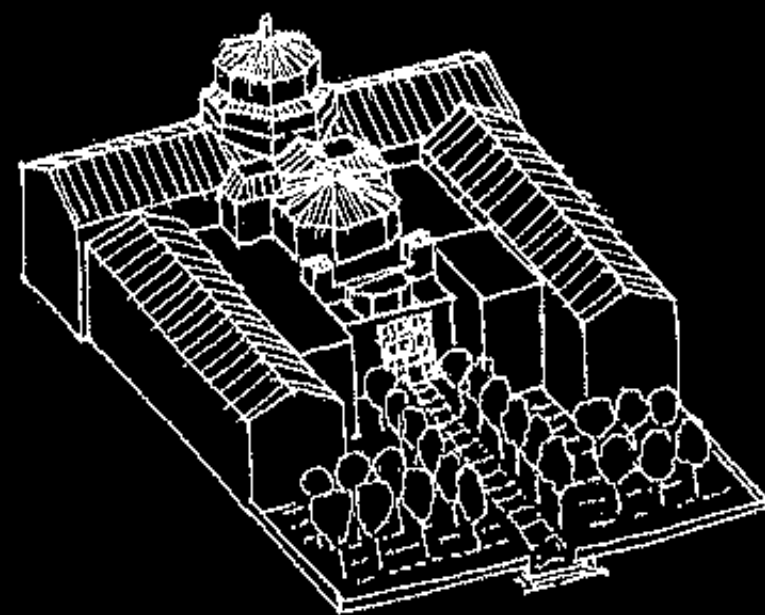




1924  
original



1957  
with stack addition



1996  
restoration  
and renovation





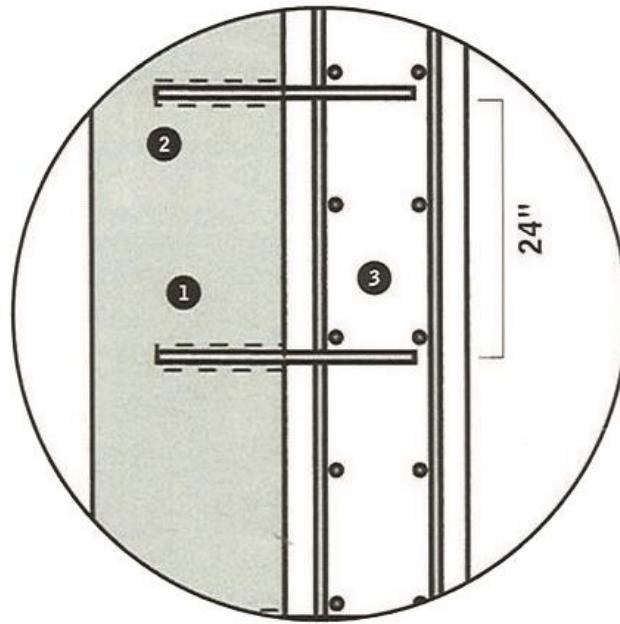




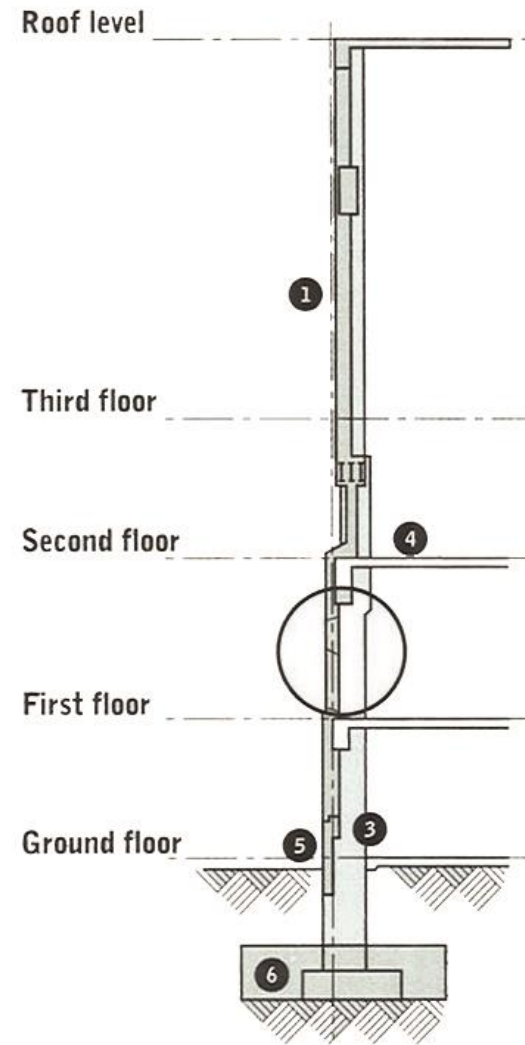


shotcrete was pumped onto the brick

shotcrete and steel reinforcements



- ① Existing brick wall
- ②  $\frac{3}{4}$ "-dia. threaded rods, grouted into brick
- ③ New shotcrete with steel reinforcing
- ④ Existing slab
- ⑤ Existing concrete wall
- ⑥ Enlarged footing



Typical exterior wall section



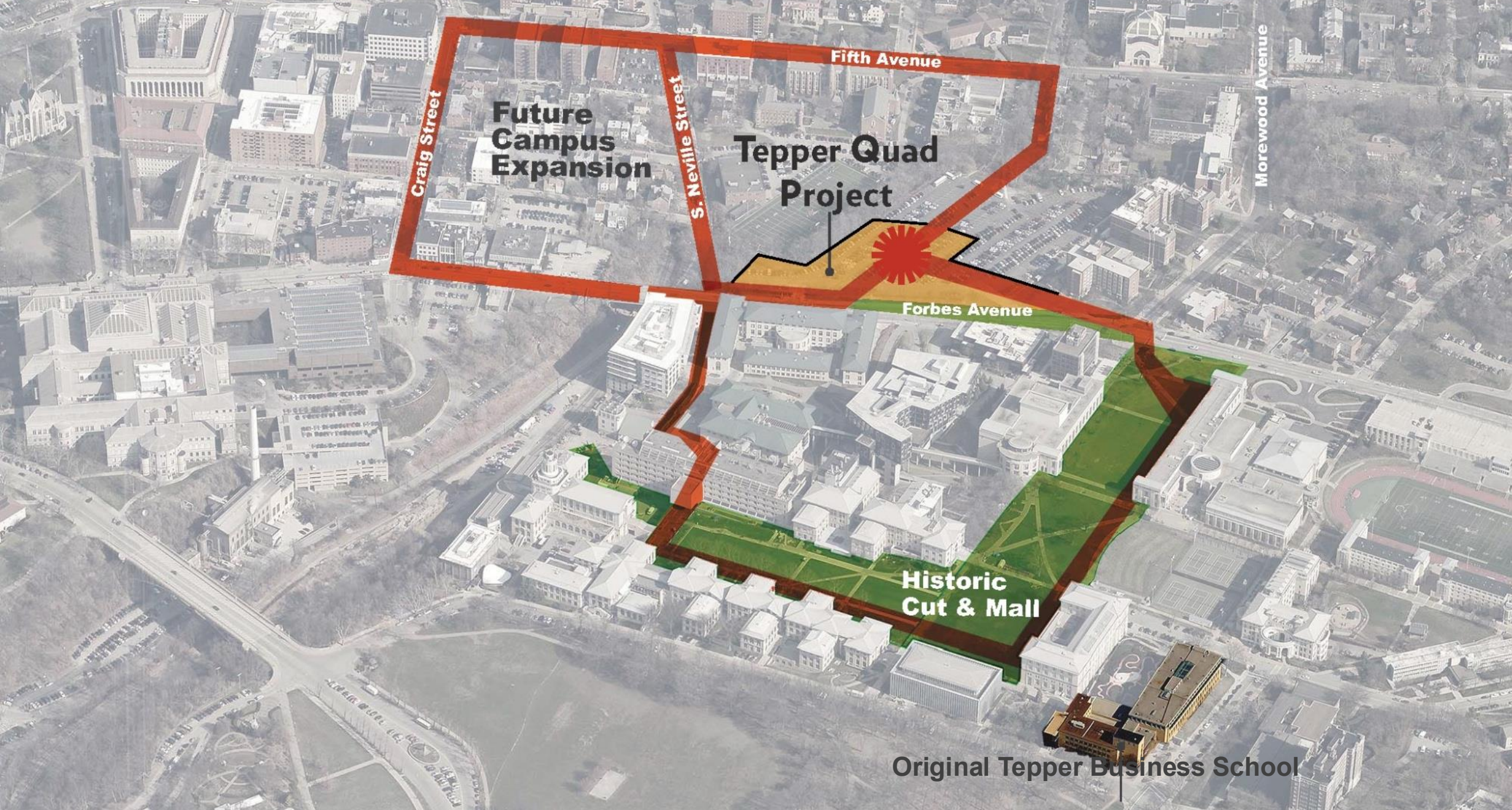




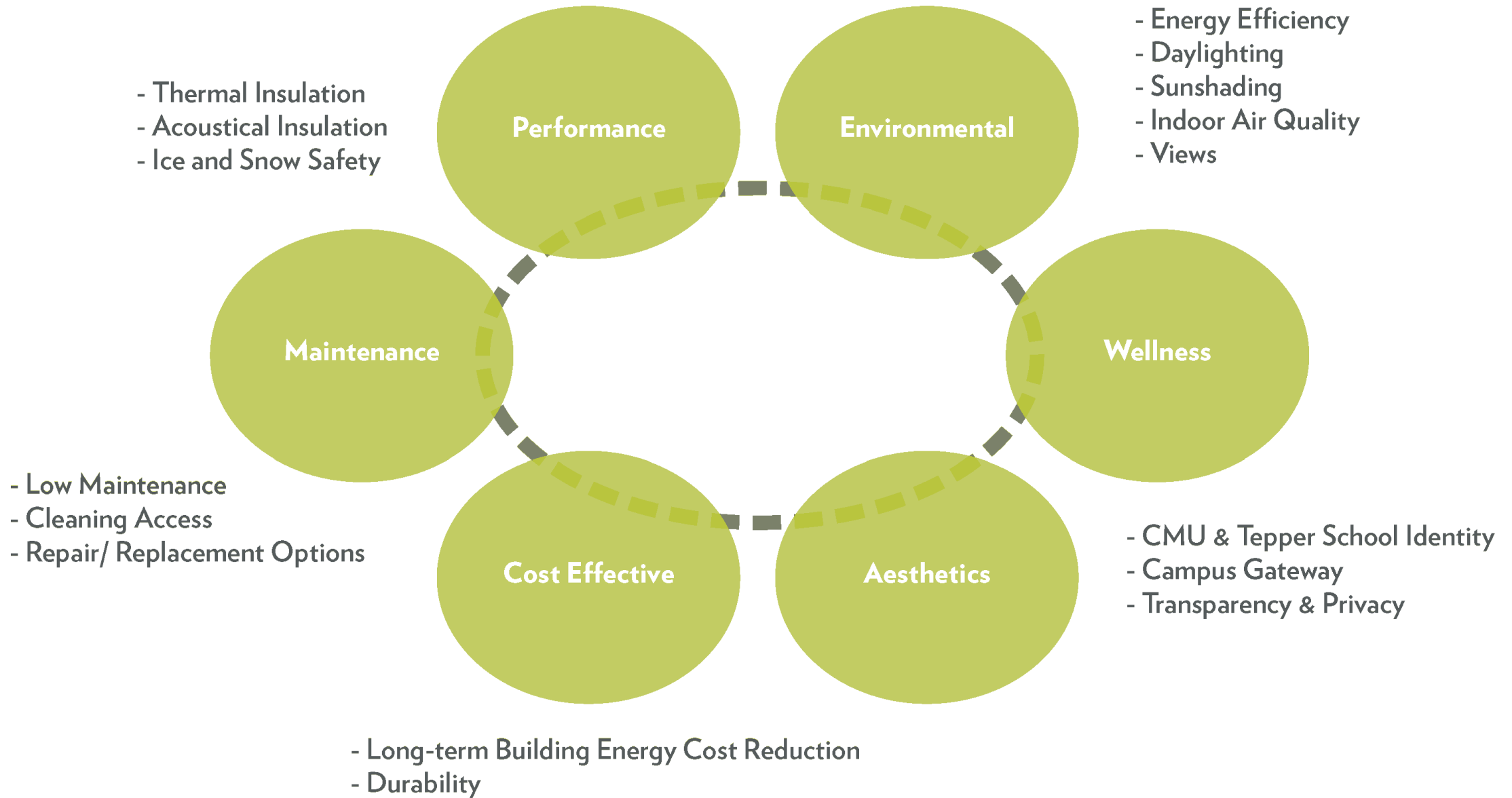
An aerial night photograph of the Carnegie Mellon University Tepper Quad. The central focus is a modern, multi-story building with a large glass-enclosed atrium and a flat roof. The building is surrounded by landscaped green spaces with young trees and walkways. To the left, a multi-lane road shows light trails from traffic. In the background, the Pittsburgh skyline is visible, dominated by the tall, illuminated PPG Place tower. The sky is a deep orange and red from the setting or rising sun.

# Carnegie Mellon University Tepper Quad









**FACADE RESEARCH**





HAMMERSCHLAG HALL



HAMBURG HALL



COLLEGE OF FINE ARTS



HUNT LIBRARY



GATES HILLMAN COMPLEX



PORTER HALL

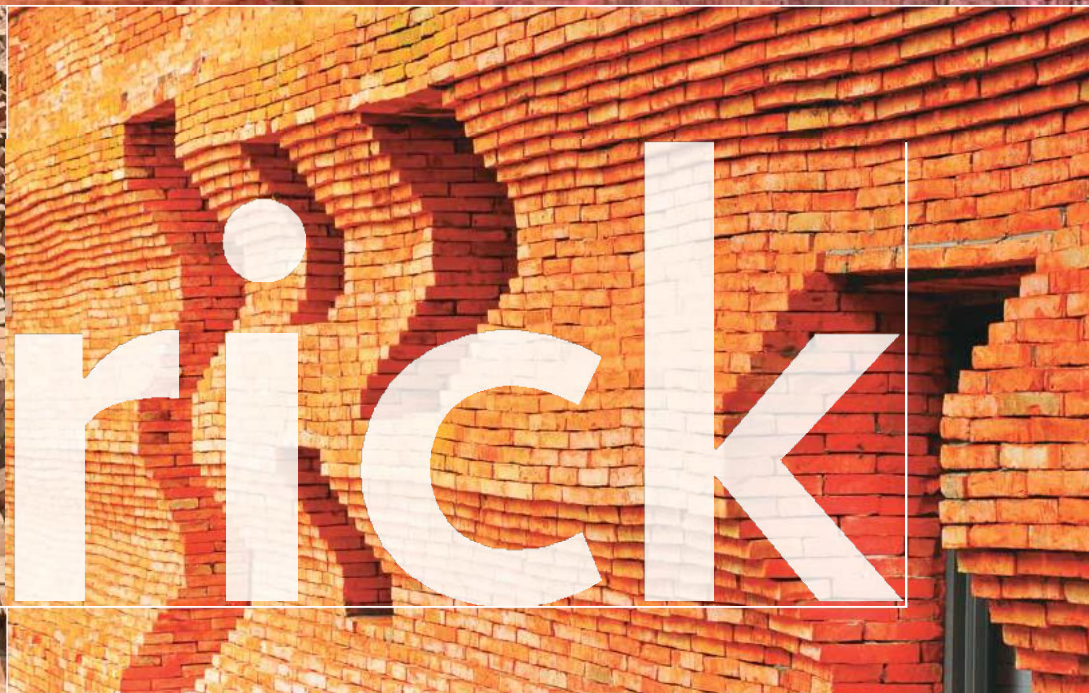
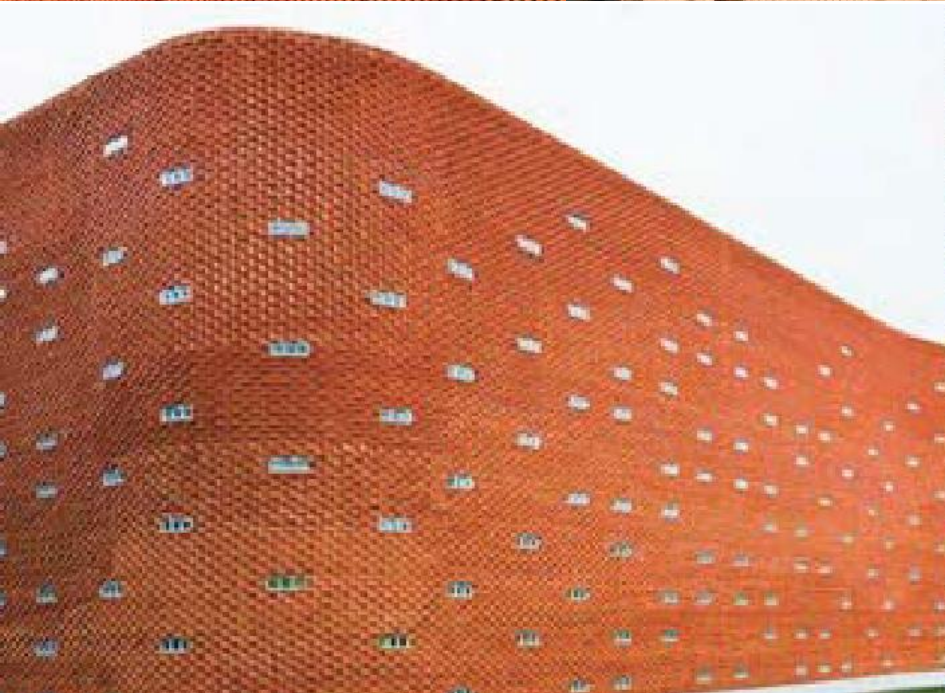


# CAMPUS MATERIALS CONTEXT









brick



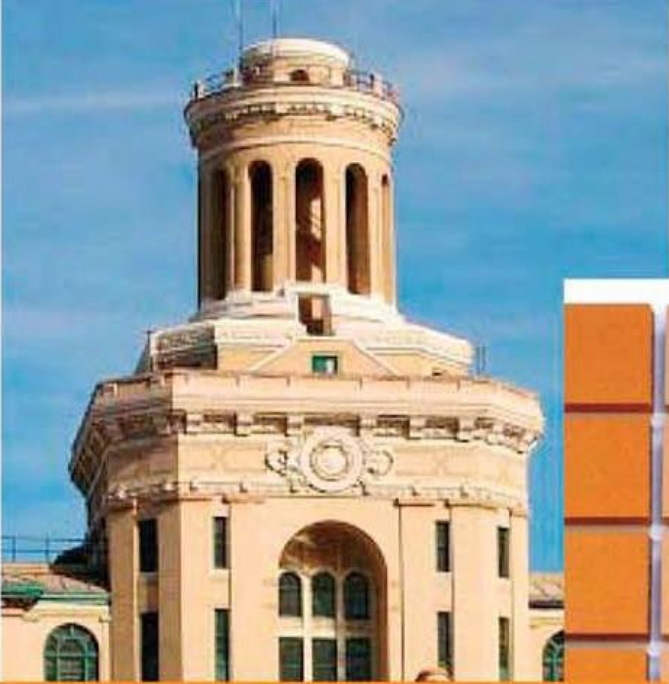


Henry Hornbostel



Kittanning Brick and Fire Clay Company





Warm and Welcoming



Indoor / Outdoor

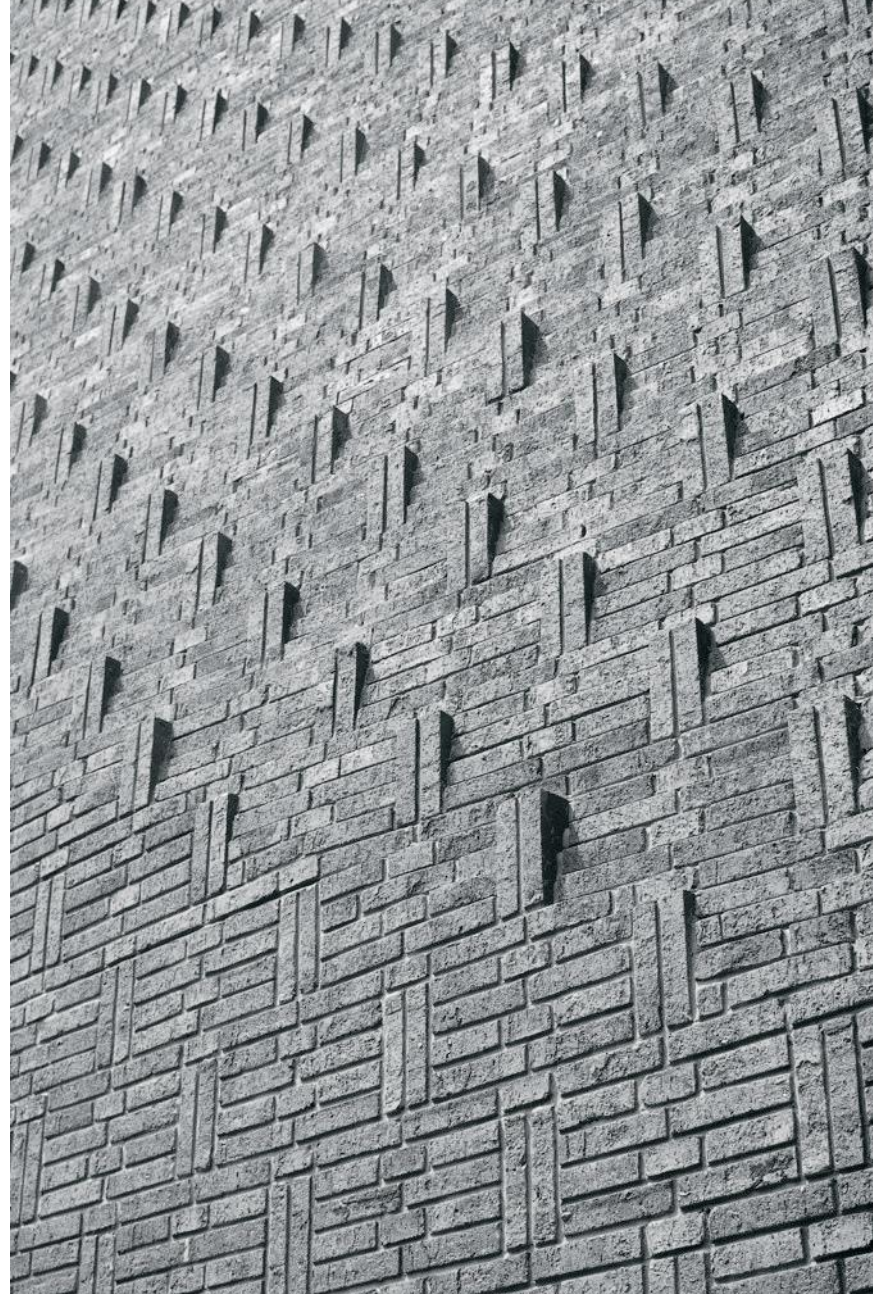


Transparency





**simple plane of brick**

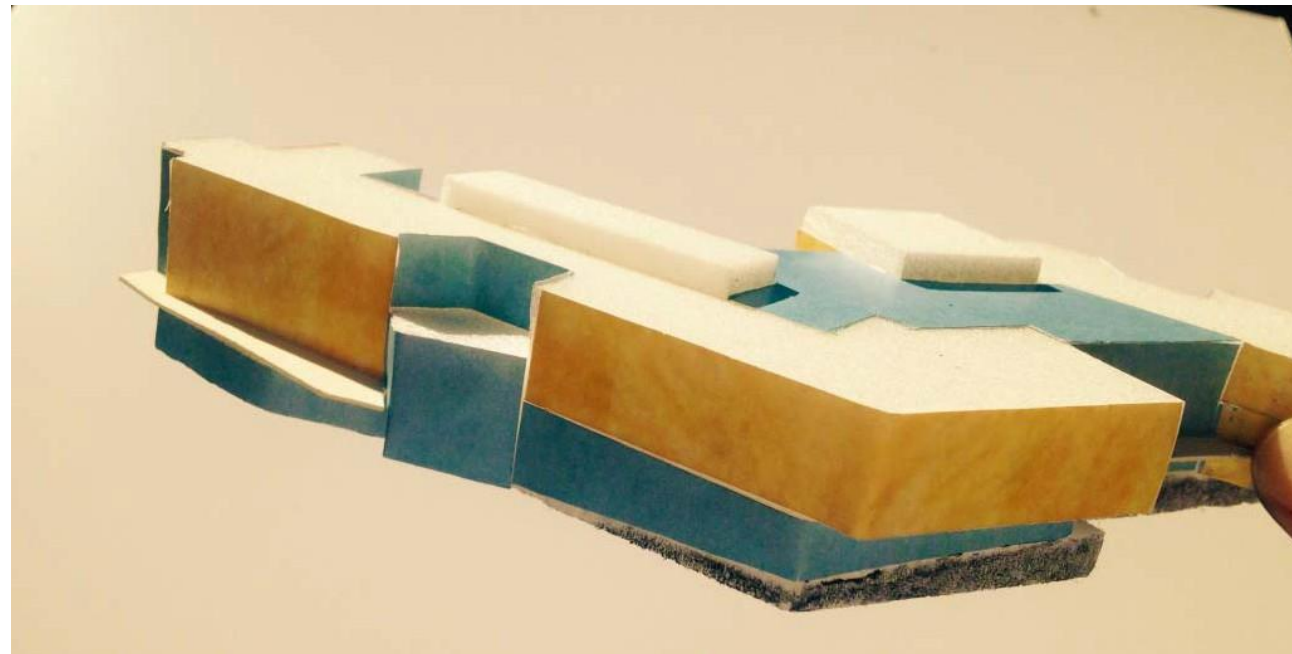
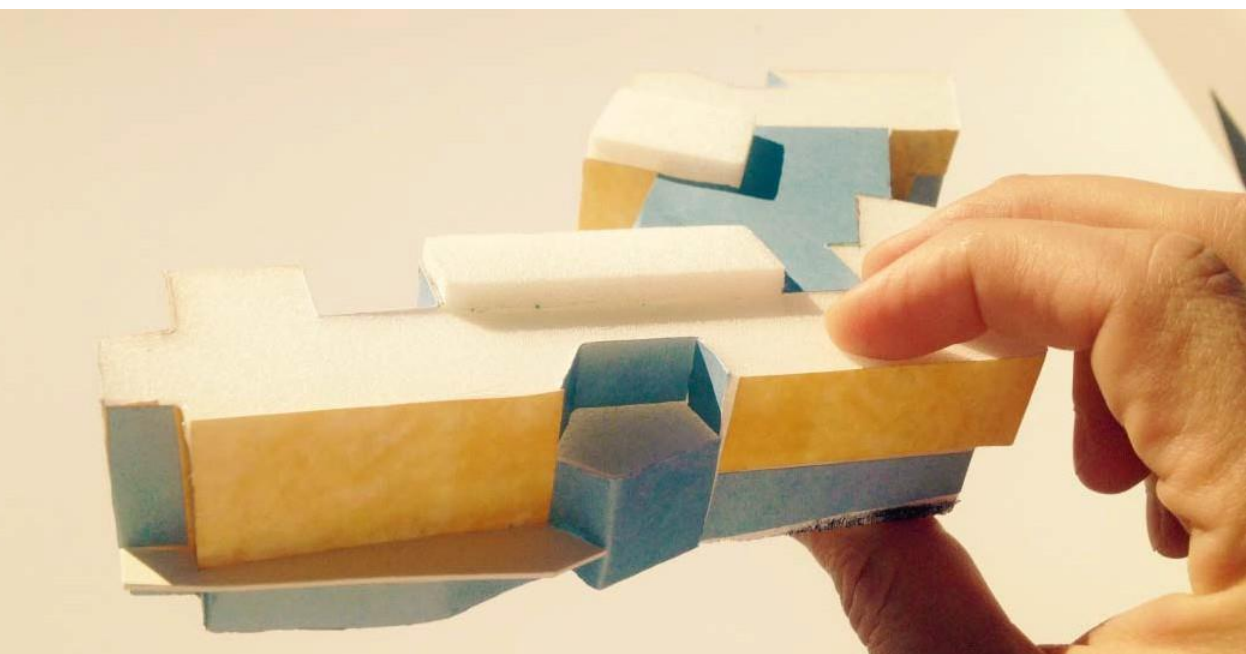
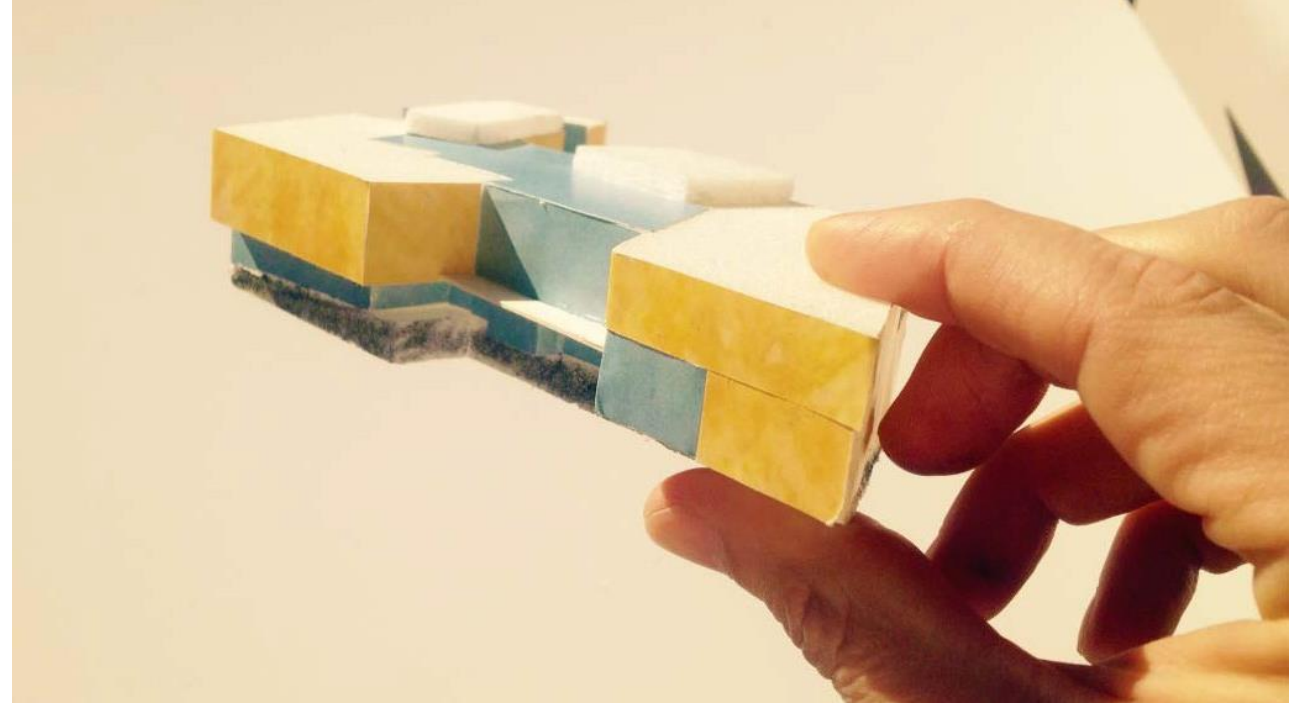
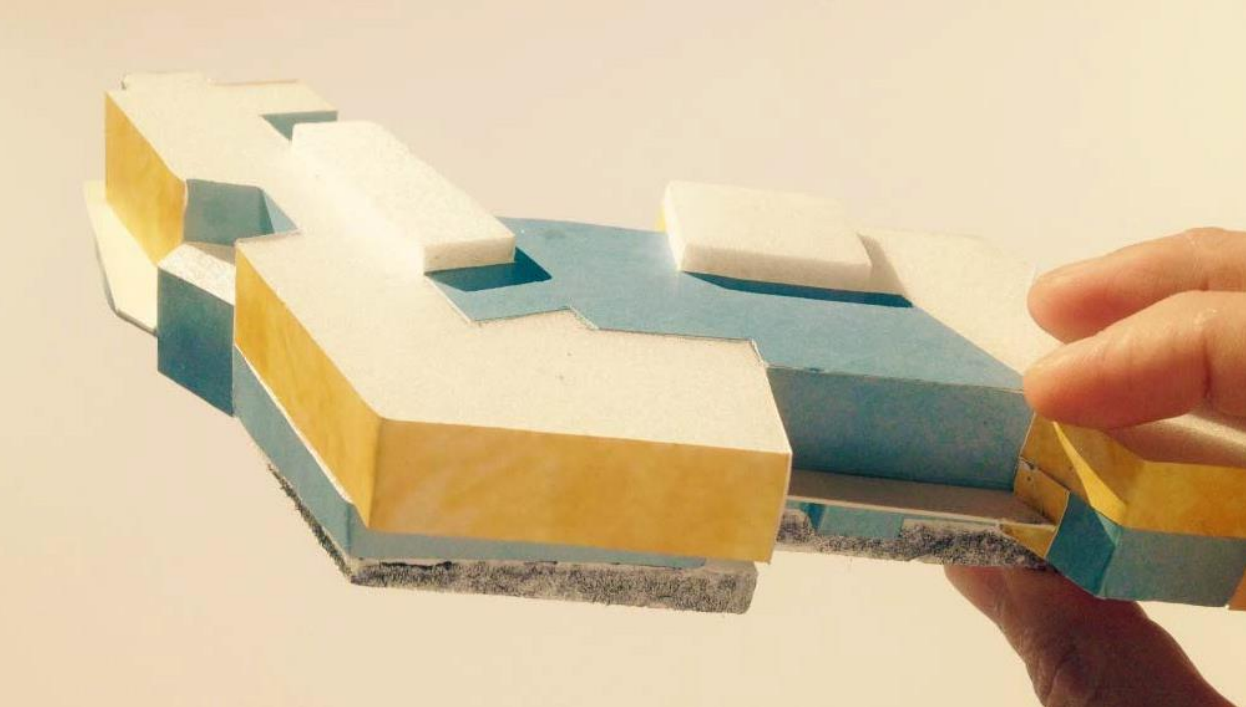


**three-dimensional organizations**



**brick and other material combinations**





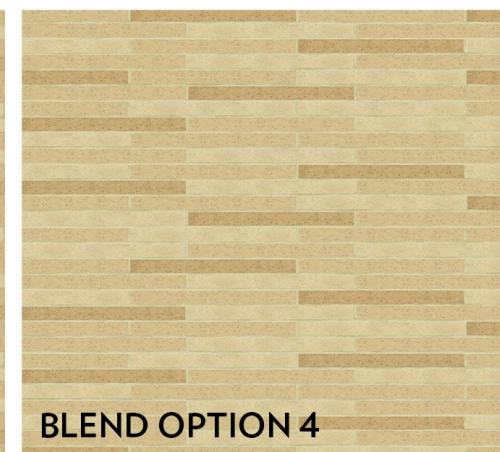












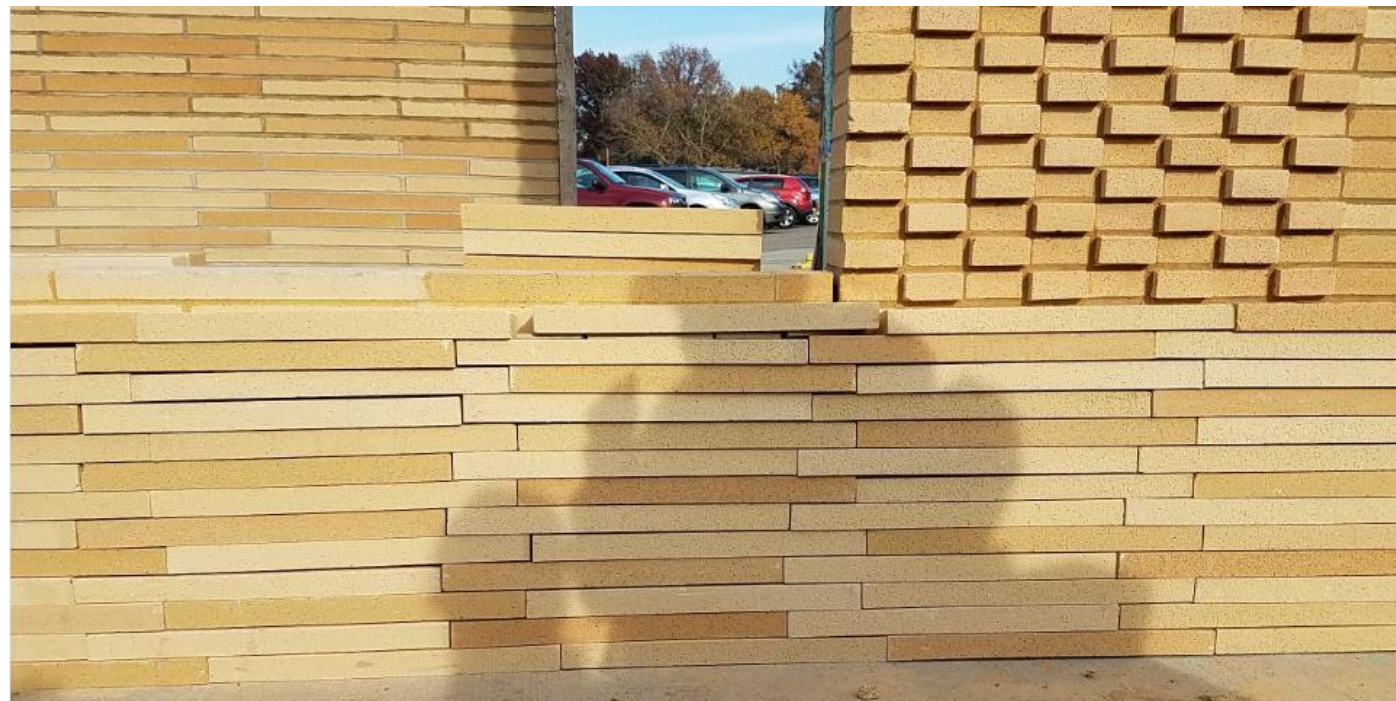




# BLEND SELECTION

PREVIOUS BLEND

RECOMMENDED BLEND











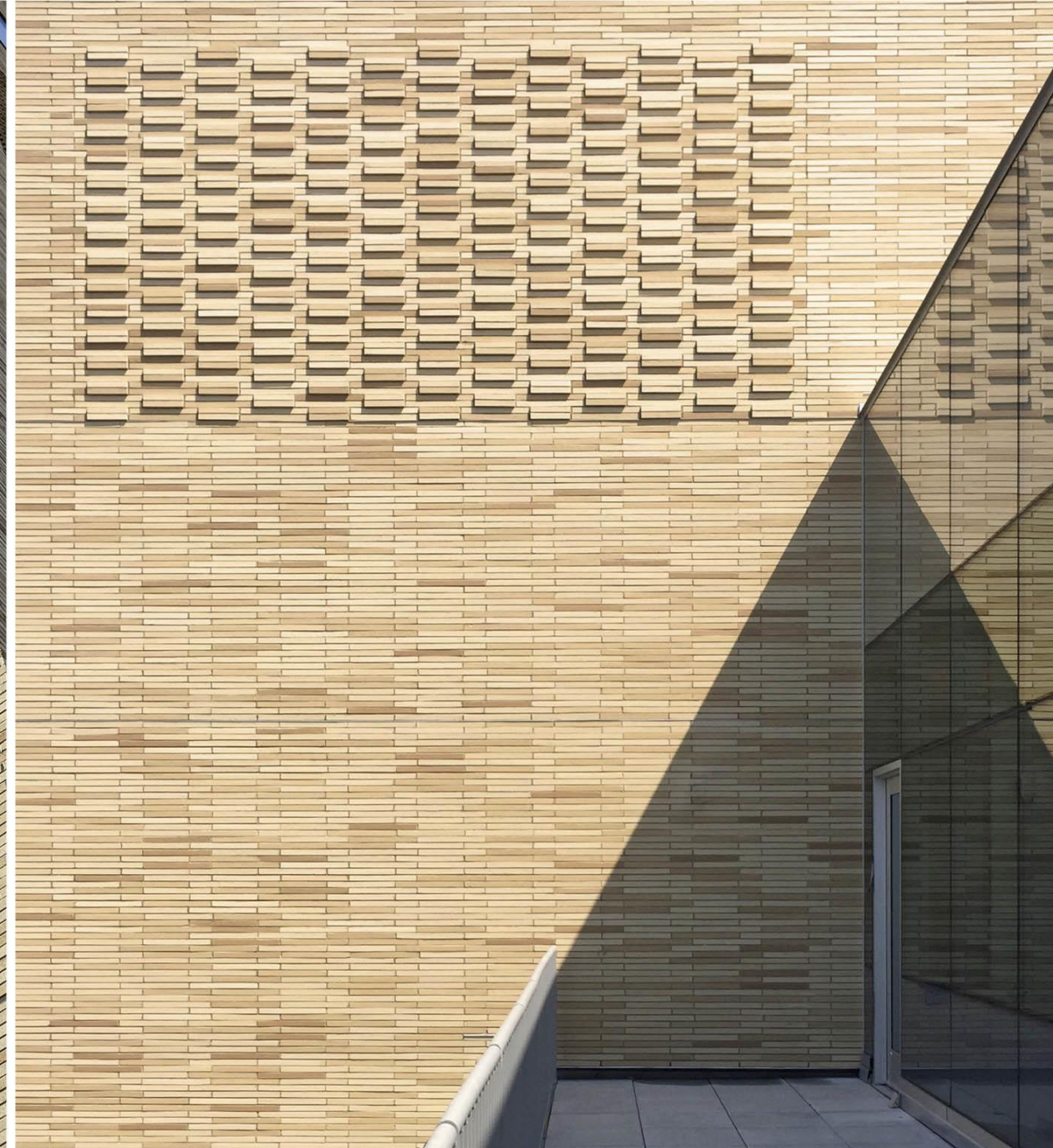
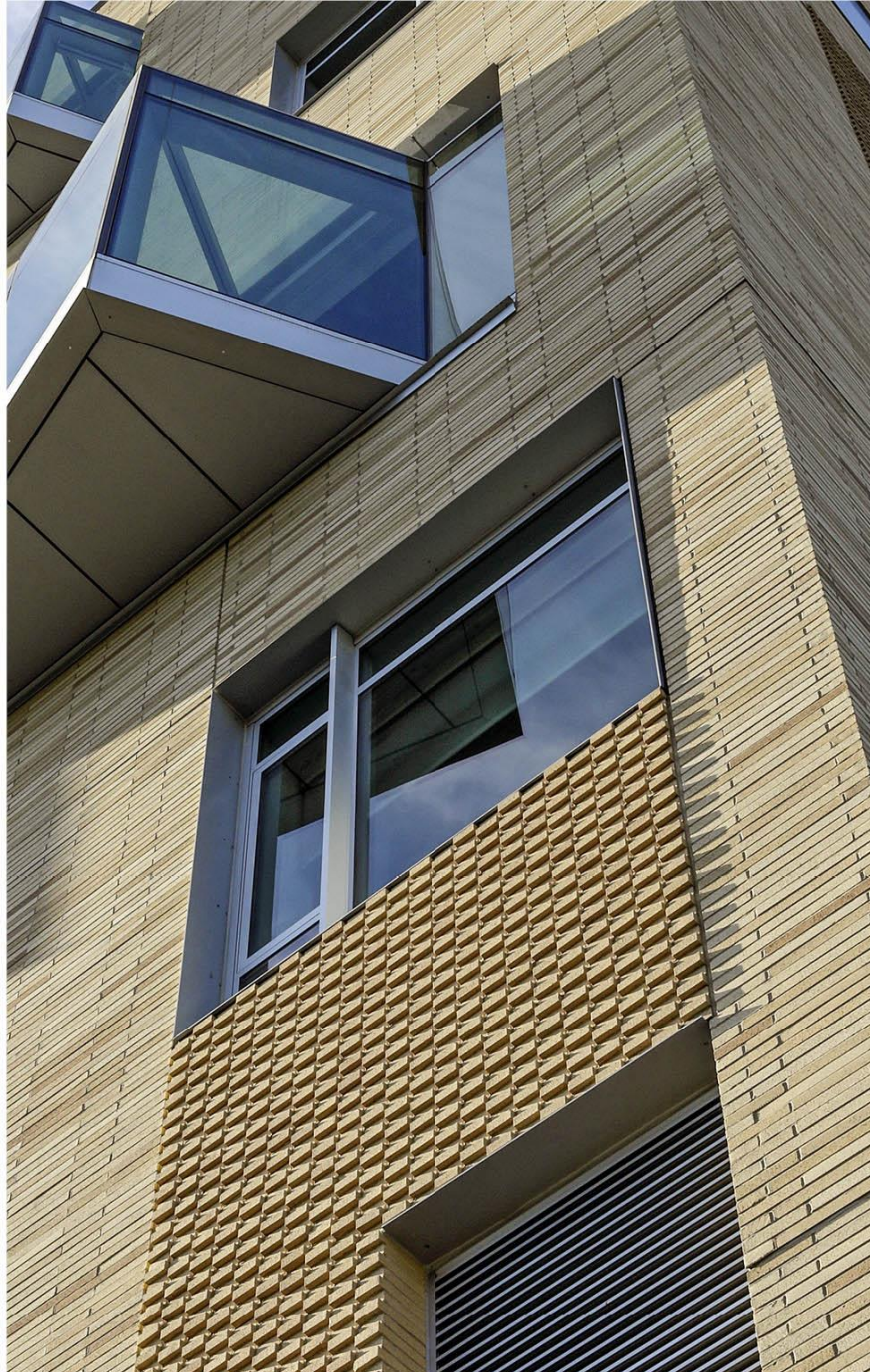
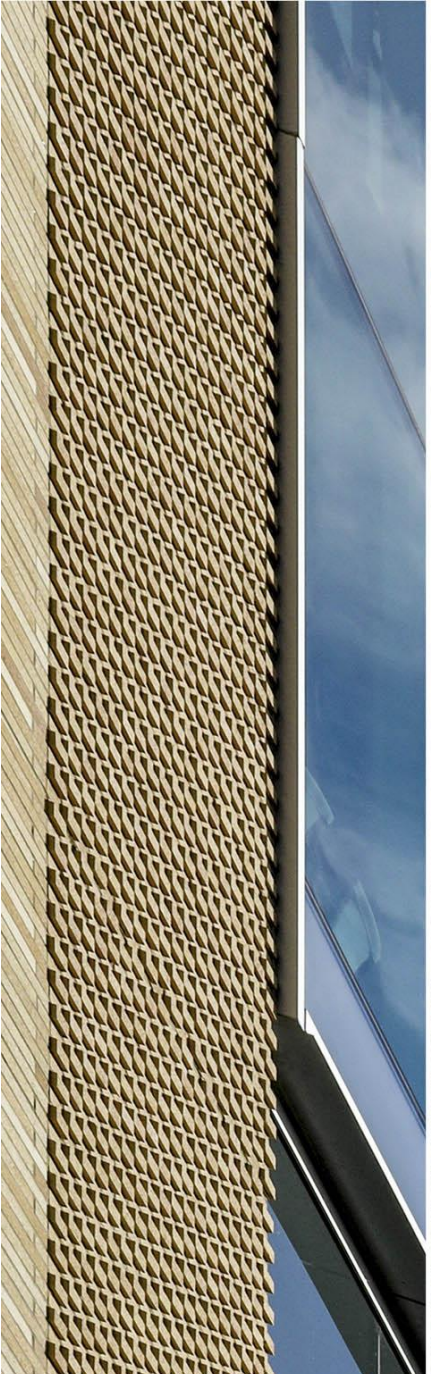














# UC Riverside School of Business







UC Riverside School of Business Building

moore ruble yudell architects & planners



# Connecting Place & People







# Inspired by Campus Heritage



UC Riverside School of Business Building

moore ruble yudell architects & planners



# Themes & Materials



**Entry arcade, glassy bays and photovoltaics crate iconic identity**



**Architectural concrete, bays, metal sunshades and photovoltaics create a rich palette**



**Shading elements, brick detailing, bays and photovoltaics create syncopation without added ornamentation**



**Building steps down and angles in harmony with natural topography**



# Welcoming Open Arms





# Movement Engages Community



A central pathway naturally guides movement and views up through the open lobby and out to the Hillside Gardens on Level 2.



# Authentic Expression





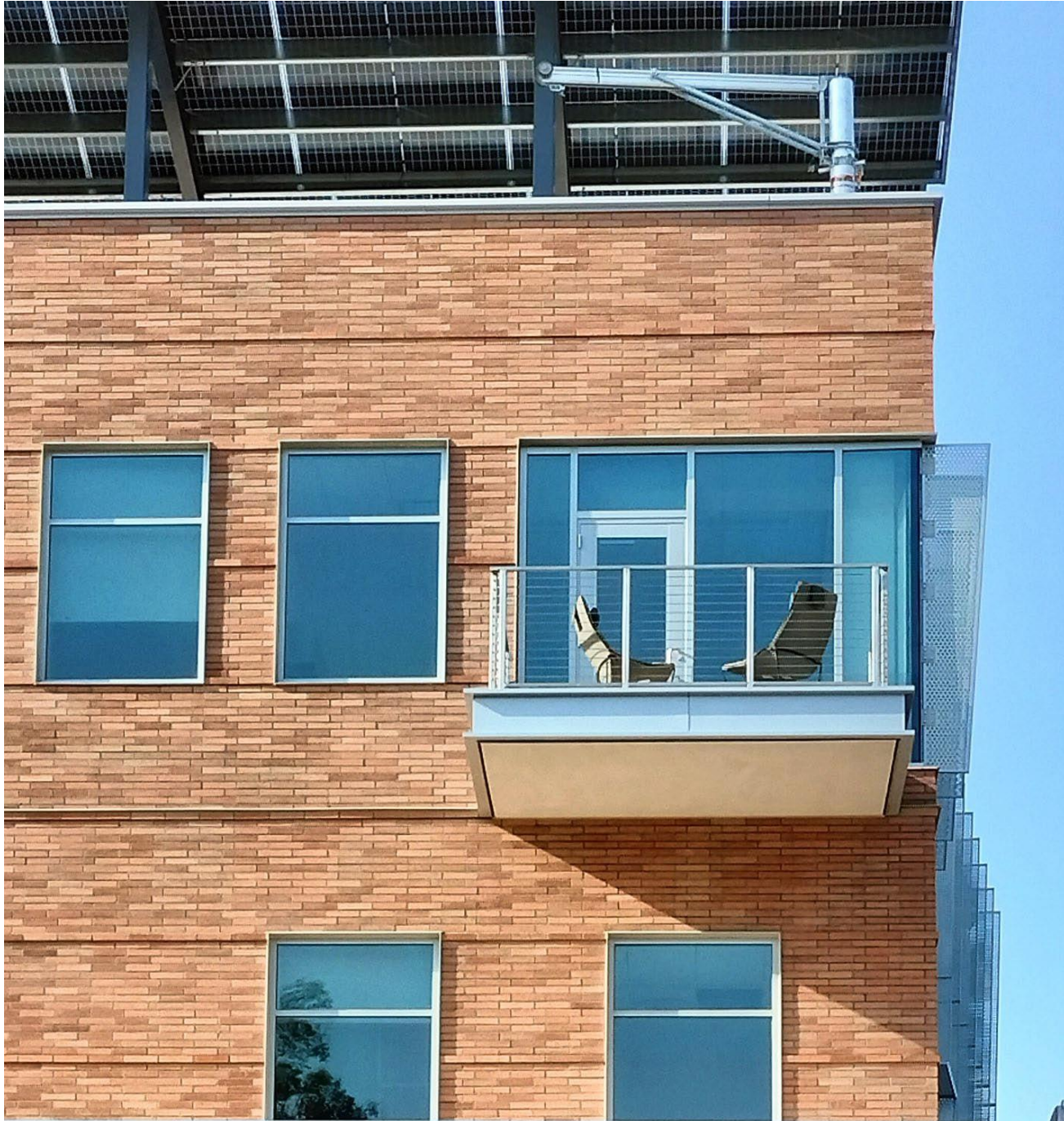


UC Riverside School of Business Building

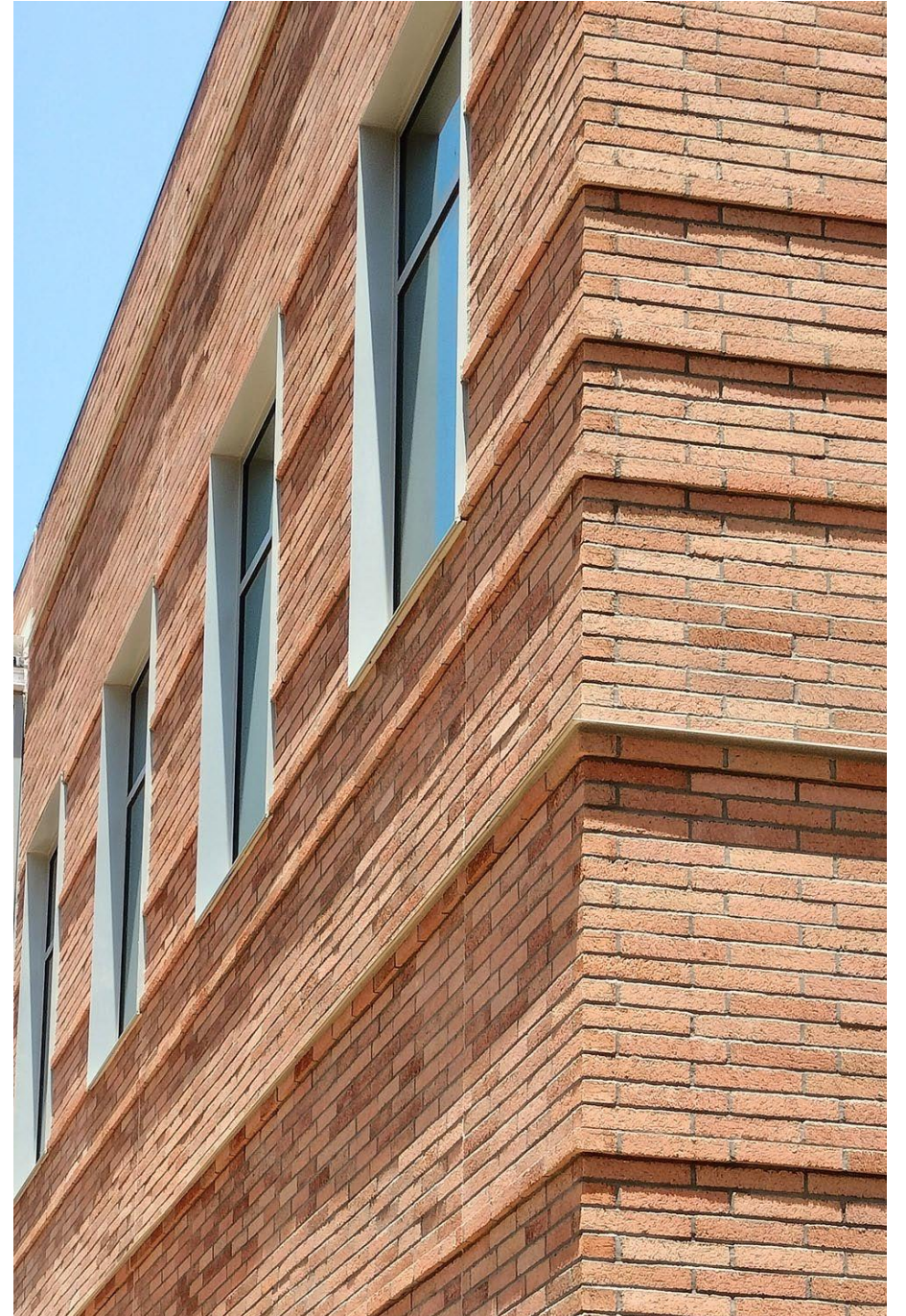


moore ruble yudell architects & planners





UC Riverside School of Business Building



moore ruble yudell architects & planners



# A Dynamic Hub for Campus and Community





# Aggie Square

Purpose

Place

Presence

Performance

ZGF





# Aggie Square

**Purpose**

Place

Presence

Performance

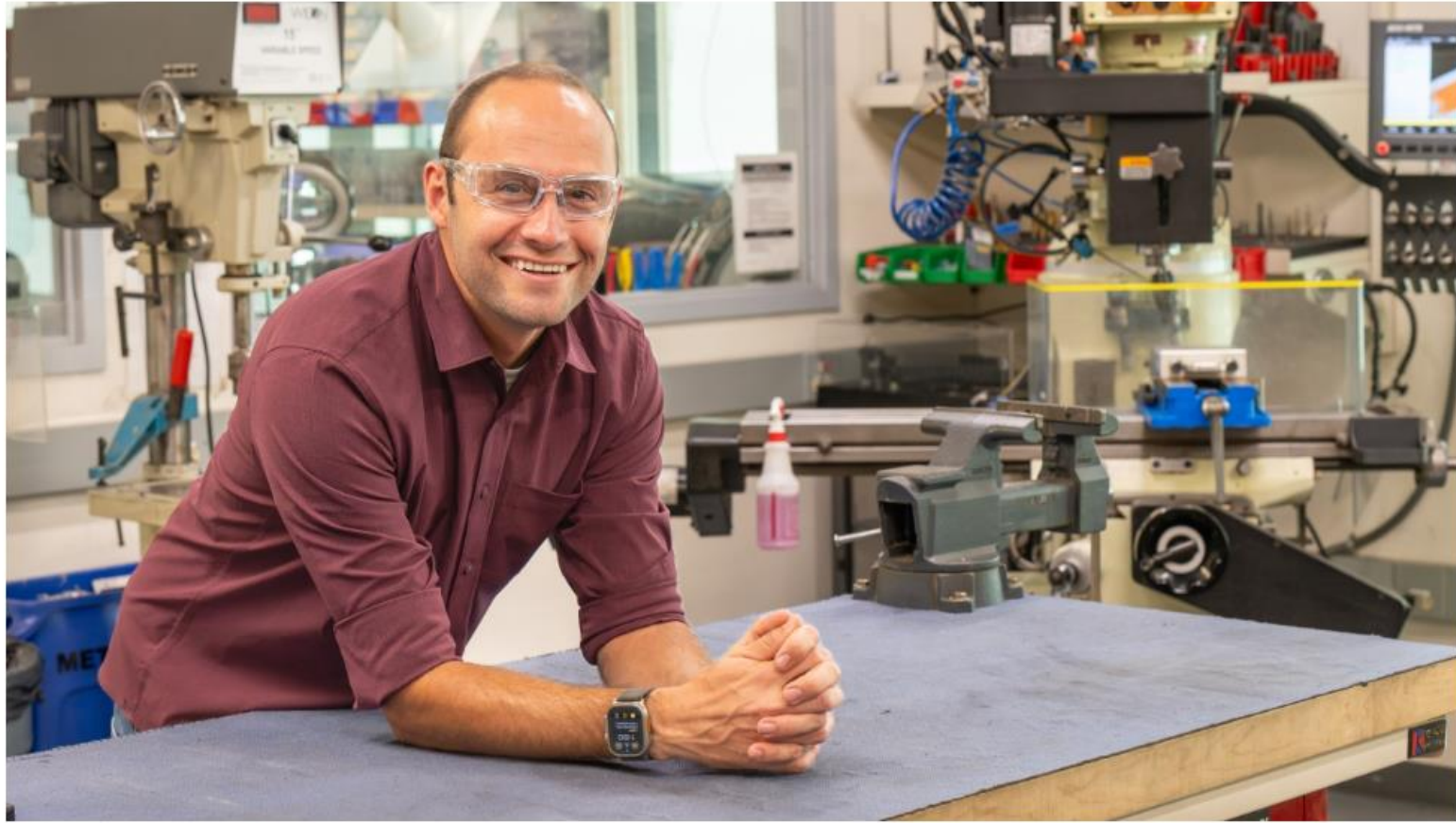
ZGF











*Steven Lucero is director of UC Davis Tech Foundry. (Michael Bannasch/UC Davis)*

## **Q&A: How Tech Foundry Hopes to Have an Impact at Aggie Square**

### **Facility Creates Prototypes, Specialized Tools and More**



## Separating Conjoined Twins Part 3: Preparing for the Surgery of a Lifetime









# UC DAVIS: TWO CAMPUSES





MED CENTER

# UC DAVIS - SACRAMENTO CAMPUS





# CALIFORNIA STATE FAIR

SACRAMENTO







**Porch-inspired gathering  
spaces Indoor/ outdoor  
connection**



**Sacramento Vernacular  
Historic rail-yard brick**





# ACTIVATING THE GROUND PLANE





### HEAT RECOVERY

recovers energy from lab exhaust air streams



### HEAT RECOVERY CHILLERS

generate heating and cooling simultaneously



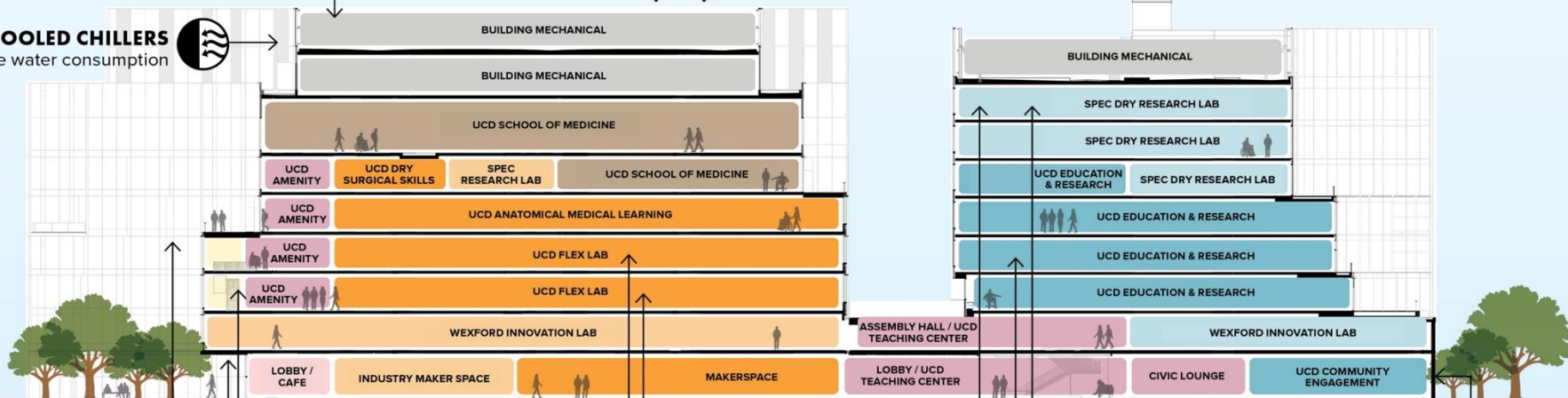
### AIR SOURCE HEAT PUMPS

provide high-efficiency heating and cooling within a single system



### AIR COOLED CHILLERS

reduce water consumption



EUI  
**96 kBtu/sf-yr**

typical lab is more than double that

ENERGY

**30%**

Site Energy Cost Savings

**33%**

Annual Site Energy Savings

WATER

**32%**

Annual LEED WEC2 Savings

EMISSIONS

**96%**

Annual GHG Emissions Savings

### HIGH-PERFORMANCE ENVELOPE

achieves 40% WWR with low-e glazing; curtainwall fabricated locally within 2 miles



### SHADED COLONNADE

wraps the perimeter to support outdoor use



### WELLNESS

open stairs encourage vertical circulation



### DAYLIGHT AND VACANCY SENSORS

reduce lighting when spaces are unoccupied



### DECOUPLED VENTILATION AND COOLING

utilizes active and passive chilled beams



### BRICKS

sourced from a manufacturer within 10 miles



### ATOMIZING HUMIDIFICATION

uses high-pressure treated water to humidify air, leveraging recovered heat in lieu of electric steam to improve overall energy efficiency



### DEMAND CONTROL VENTILATION

adjusts airflow based on air quality and occupancy



### PROCESS STEAM

uses multiple small boilers, with air source heat pumps providing first-stage heating, to improve efficiency, turndown, and system redundancy





# LOCAL SUPPLIERS

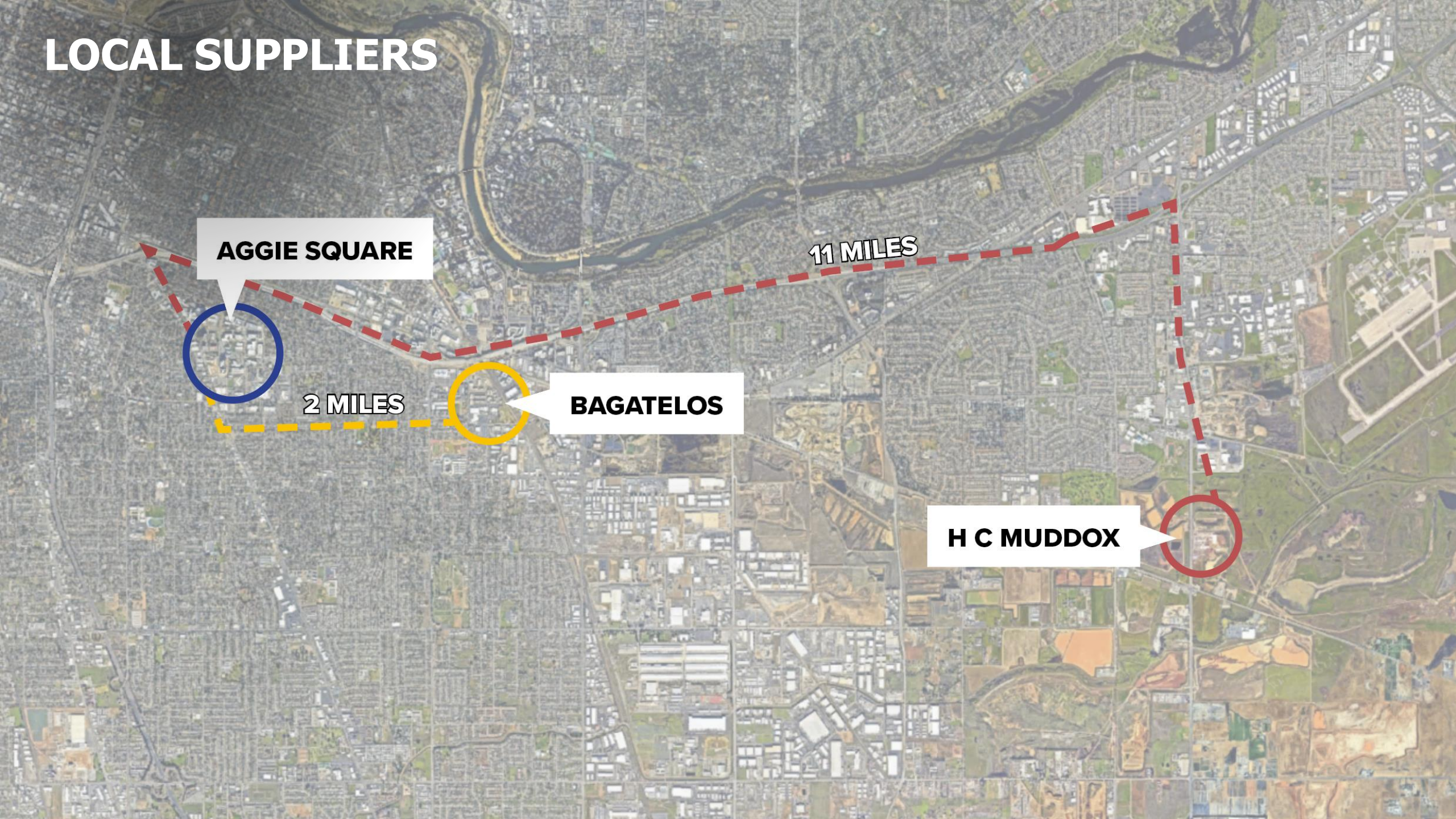
**AGGIE SQUARE**

**11 MILES**

**2 MILES**

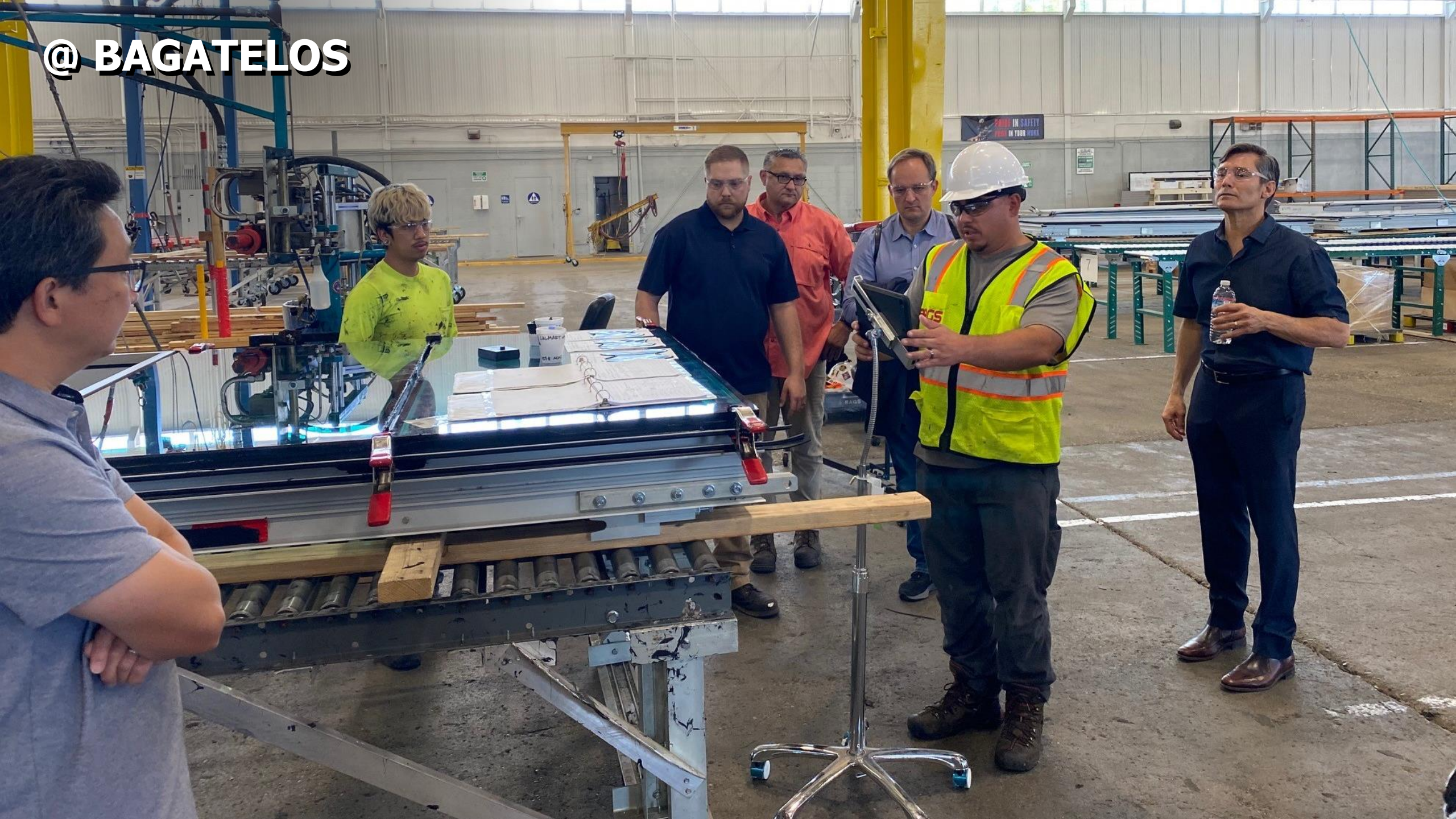
**BAGATELOS**

**H C MUDDOX**





**@ BAGATELOS**





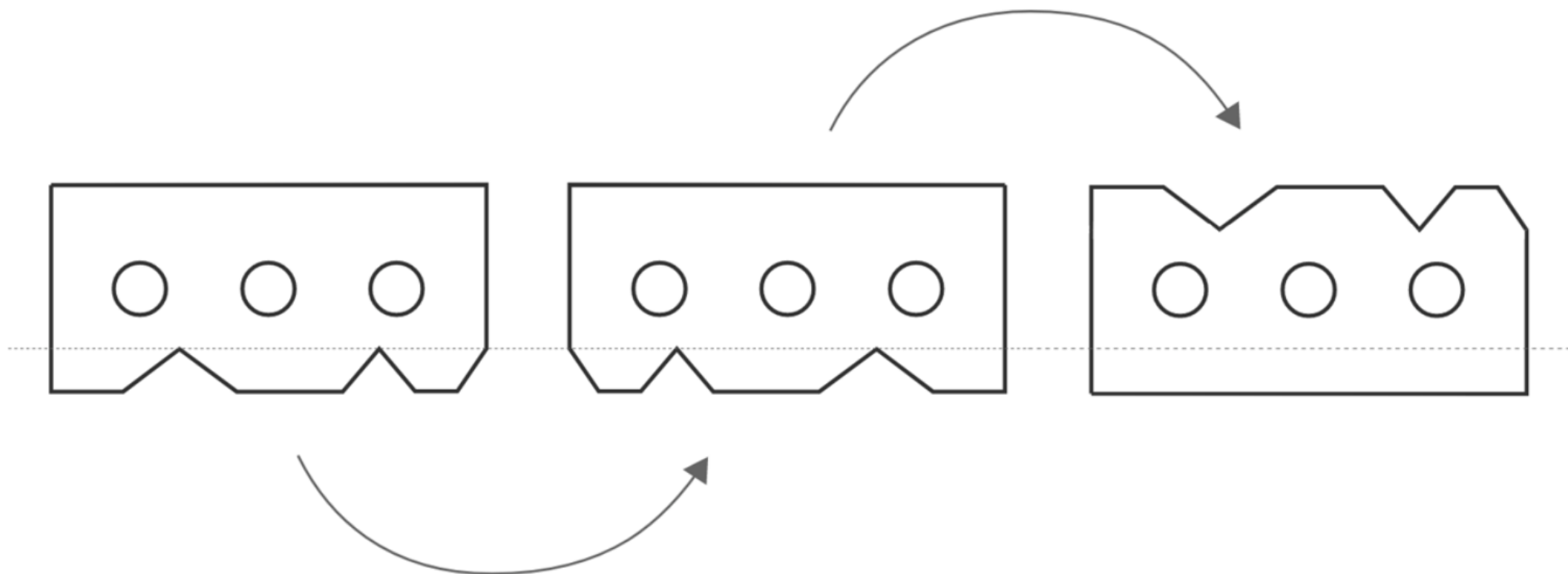
@ HC MUDDOX



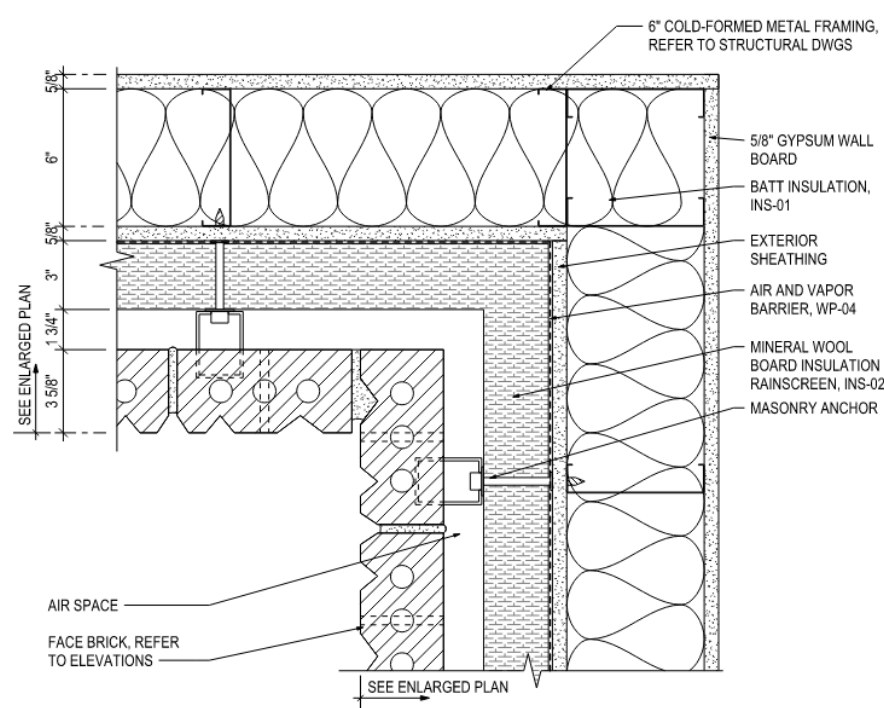




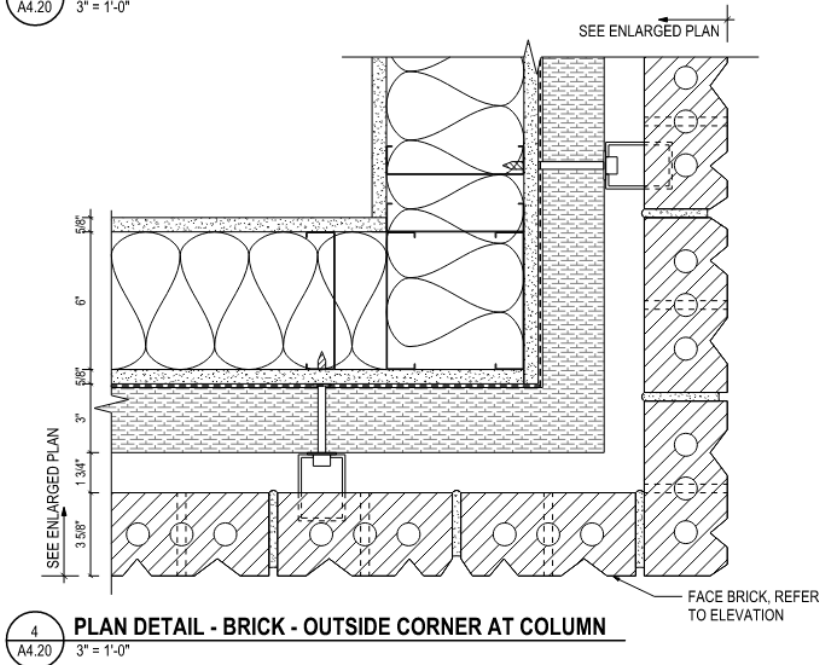








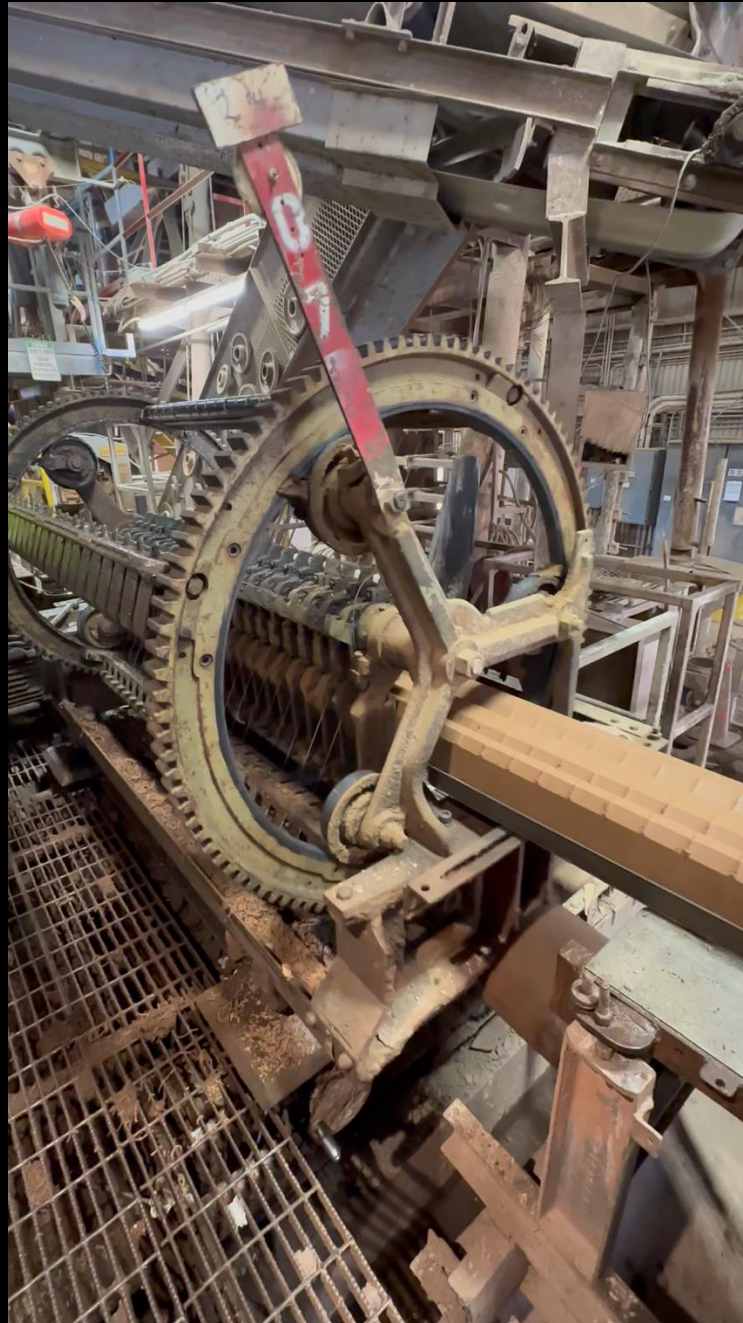
3 **PLAN DETAIL - BRICK - INSIDE CORNER AT COLUMN**  
A4.20 3" = 1'-0"



4 **PLAN DETAIL - BRICK - OUTSIDE CORNER AT COLUMN**  
A4.20 3" = 1'-0"













# JOHN JACKSON MASONRY



























































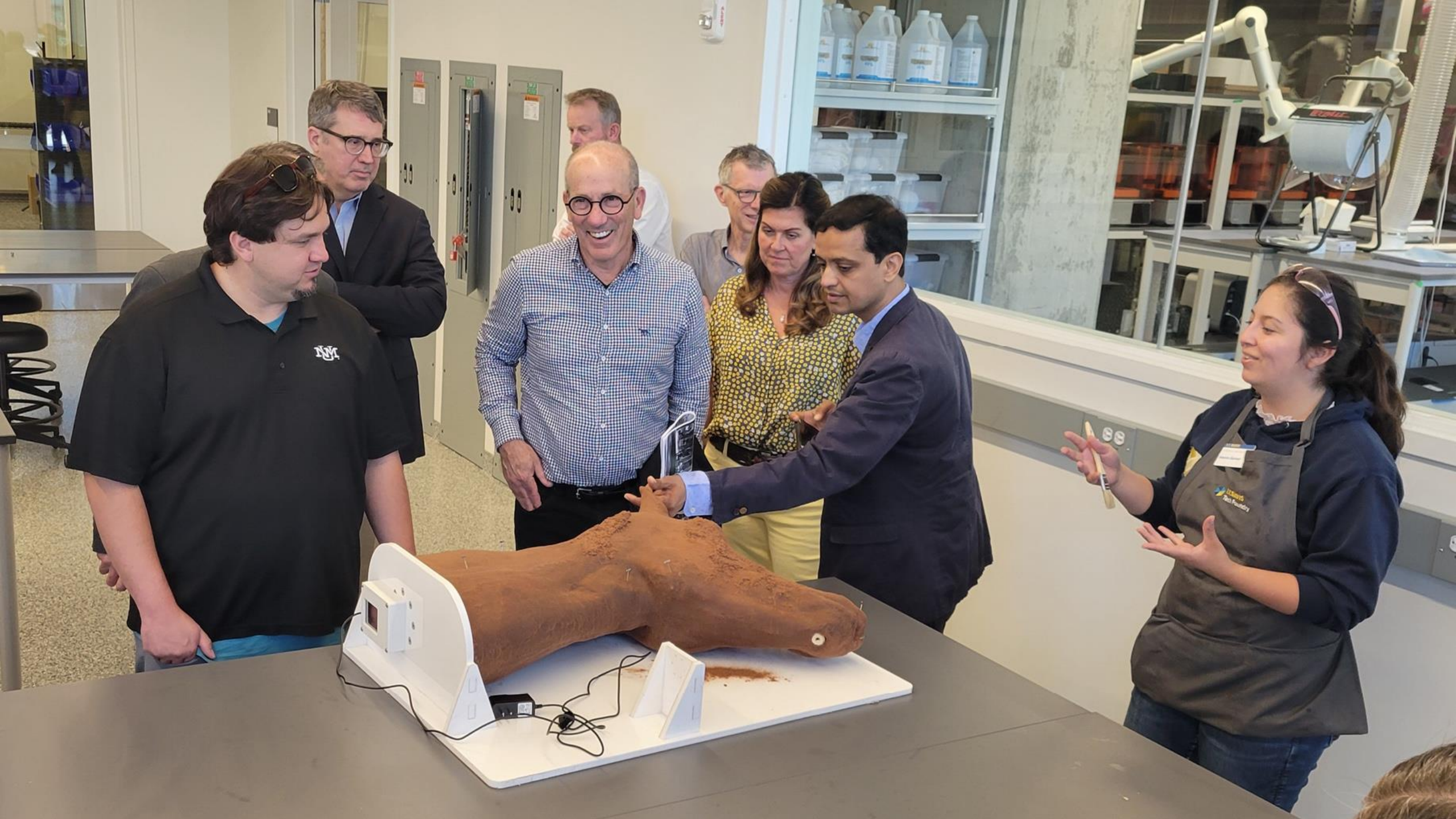




















RESEARCH | April 15, 2025

## Diana Farmer wins top national award for innovative fetal spina bifida stem cell research



# Spina Bifida Helps Dogs First

## UC Davis Veterinary and Medical School Team Gives Bulldog Pups a Brighter Future

by Karen Finney | August 24, 2017





*UC Davis is the only place where this type of cross-disciplinary, transformational medicine could happen, according to Farmer.*

*"It's rare to have a combination of excellent medical and veterinary schools and strong commitment to advancing stem cell science at one institution," she said.*

***"I've often said that I have the greatest job on the planet, because I get to help kids," Farmer said. "Now my job is even better, because I get to help puppies too."***





# Credits

## **John Jackson Masonry**

Tom Sneed, President / PM

Jamison Newell, Foreman

Robert Prater, Superintendent

Robert Aves

John Delgado, Jr.

Brian Sunkuist

Robert Jackson

## **H.C. Muddox**

Jodi Holmes Escamilla

## **Wexford Science + Technology UC Davis**

**ZGF** - Architecture / Lab Planning

**Thornton Tomasetti** - Structural

**AEI** – MEP / IT

**Cunningham** - Civil

**RELM / Atlas Lab** – Landscape

**Whiting-Turner** - CM



**Thank You!**

**#masonry  
matters**

**CALIFORNIA  
MASONRY**  
SUMMIT  
& EXPO  
**2026**

[www.CaliforniaMasonryCouncil.org](http://www.CaliforniaMasonryCouncil.org)

