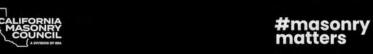
DESIGN TRENDS, SUSTAINABILITY,
BENEFITS AND CHALLENGES OF DESIGNING
WITH CMU







DESIGN TRENDS, SUSTAINABILITY,
BENEFITS AND CHALLENGES OF DESIGNING
WITH CMU

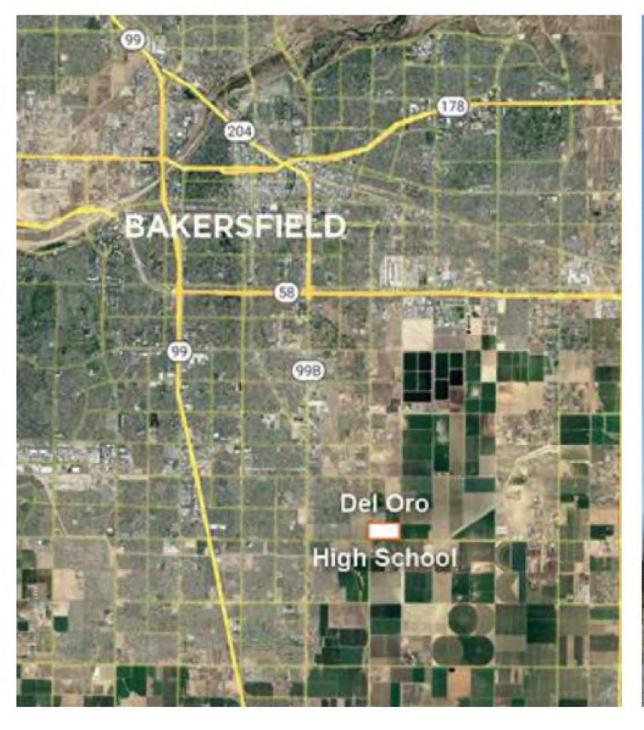


James Krueger Director of Design, HMC Architects



#masonry matters







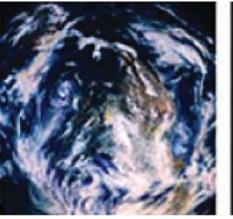




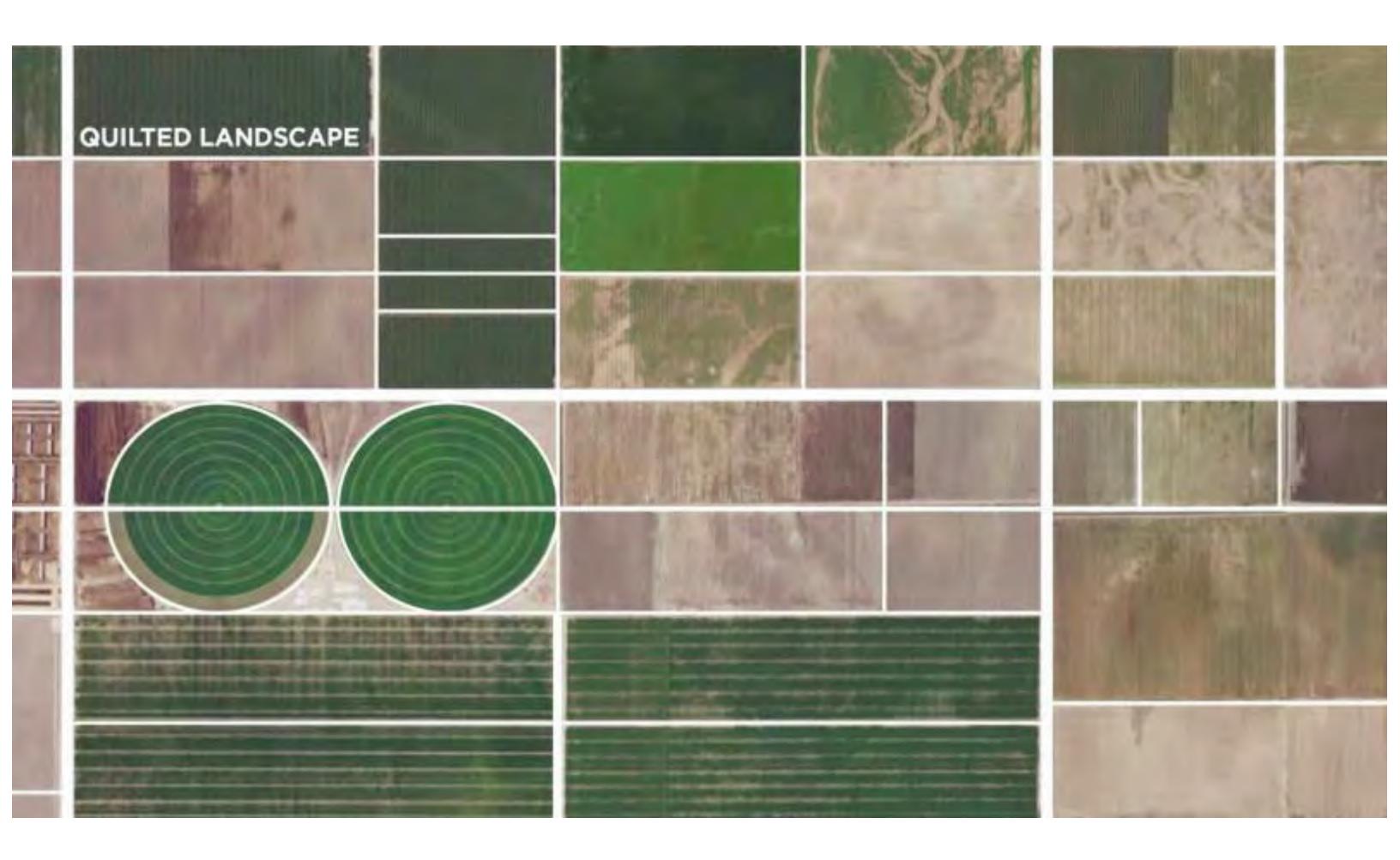




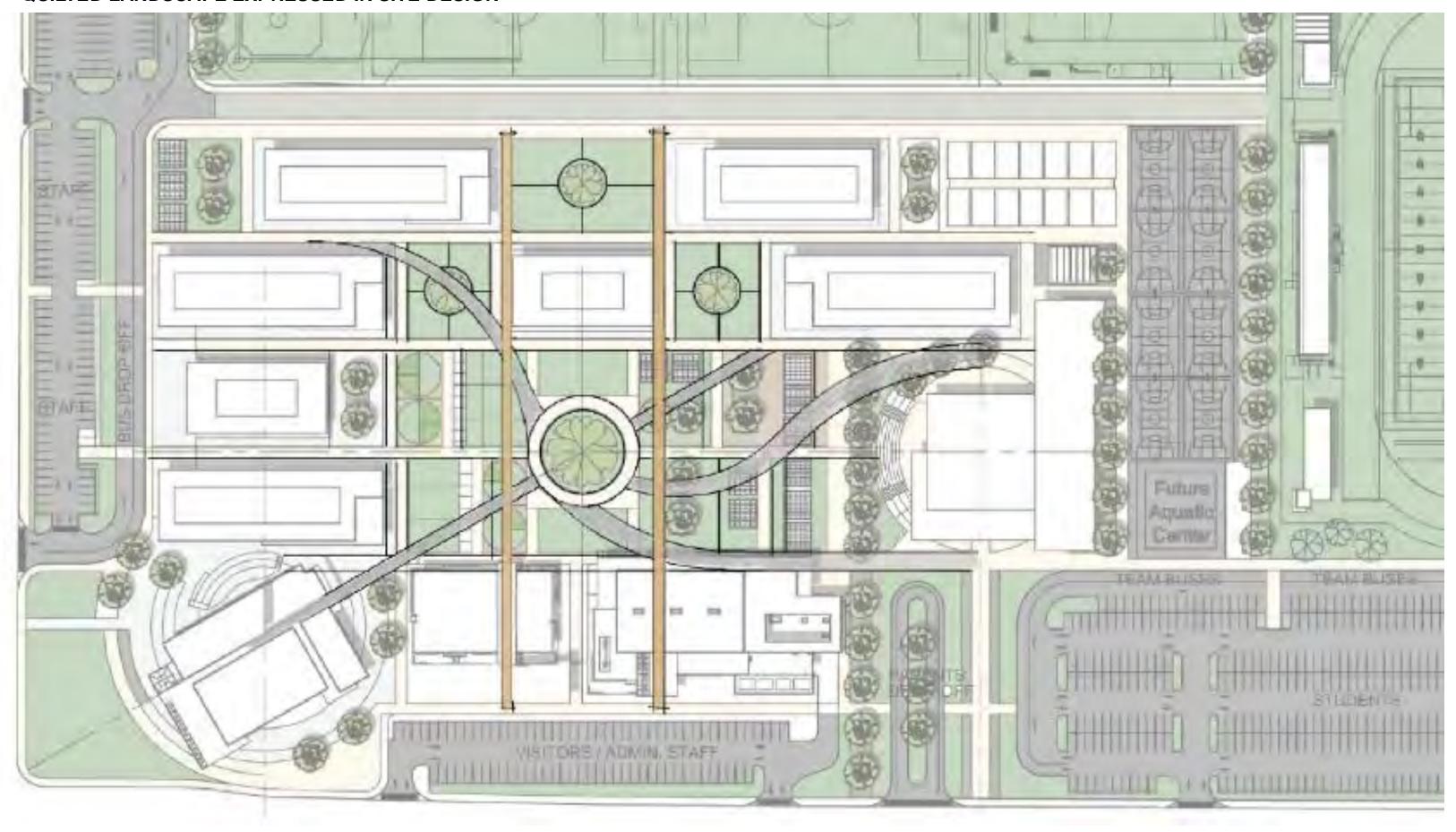


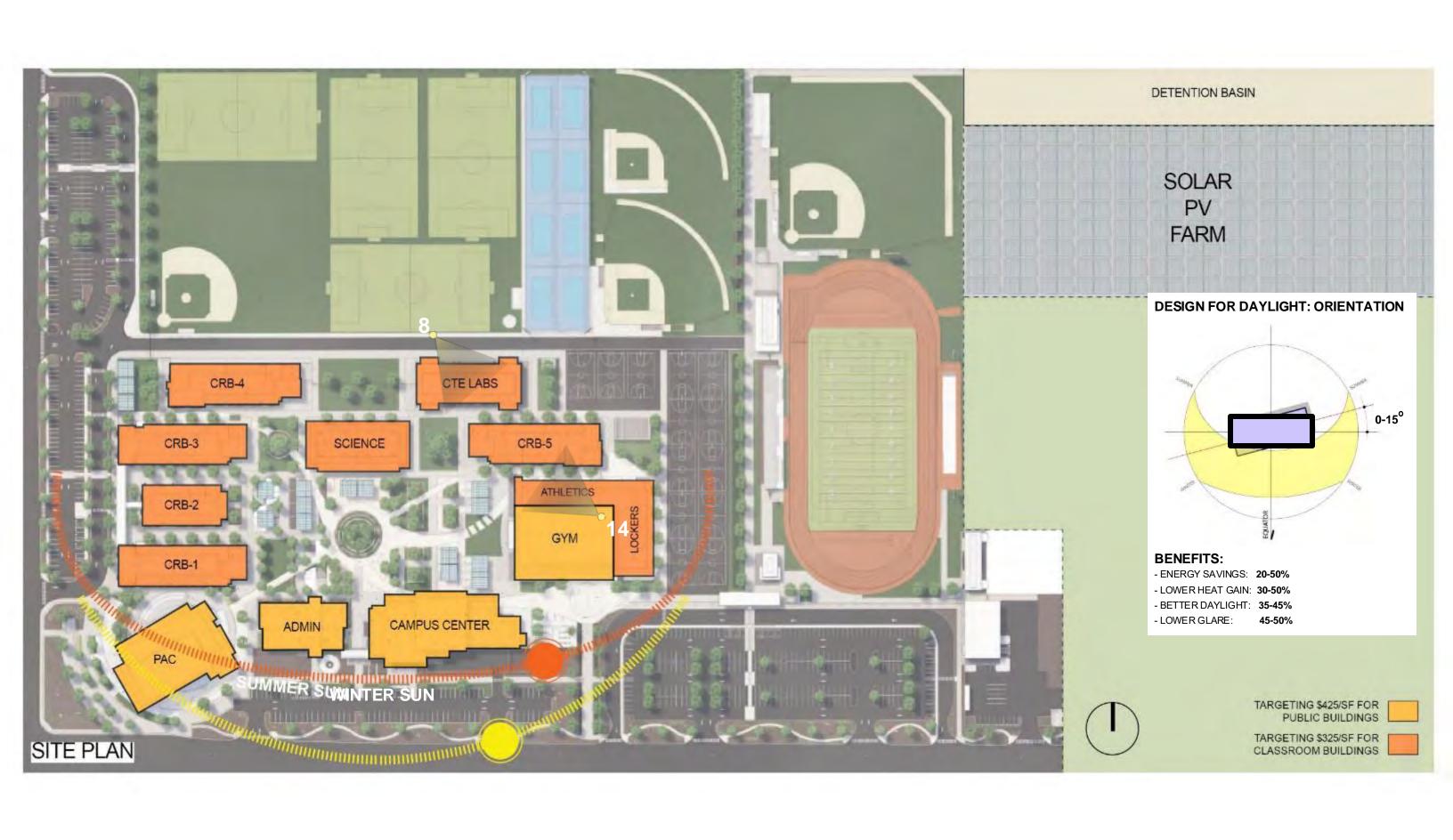






QUILTED LANDSCAPE EXPRESSED IN SITE DESIGN





PLANNING: CREATING AN IMMERSIVE DESIGN PROCESS FOR EQUITY & INCLUSION

We created an immersive design process that engaged diverse voices, resulting in real-time decision making. We worked side-by-side, testing ideas in real time, and building consensus along the way.

MORNING

We presented ideas from the Ed Spec and held Listening Sessions with the District, User Groups, and Community. District leadership then offered their input and suggestions.

3 Day Process

MID-DAY

We worked onsite to refine and continue developing ideas based on District feedback.

AFTERNOON

We met with District and User Groups to present ideas and receive feedback.

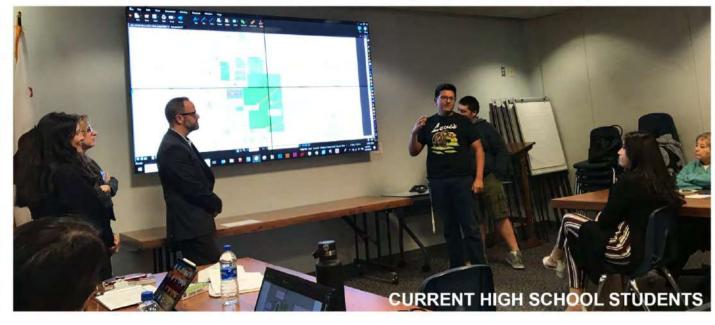
EVENING

We worked that night to refine ideas to present to the District leadership team and key staff members in the morning.

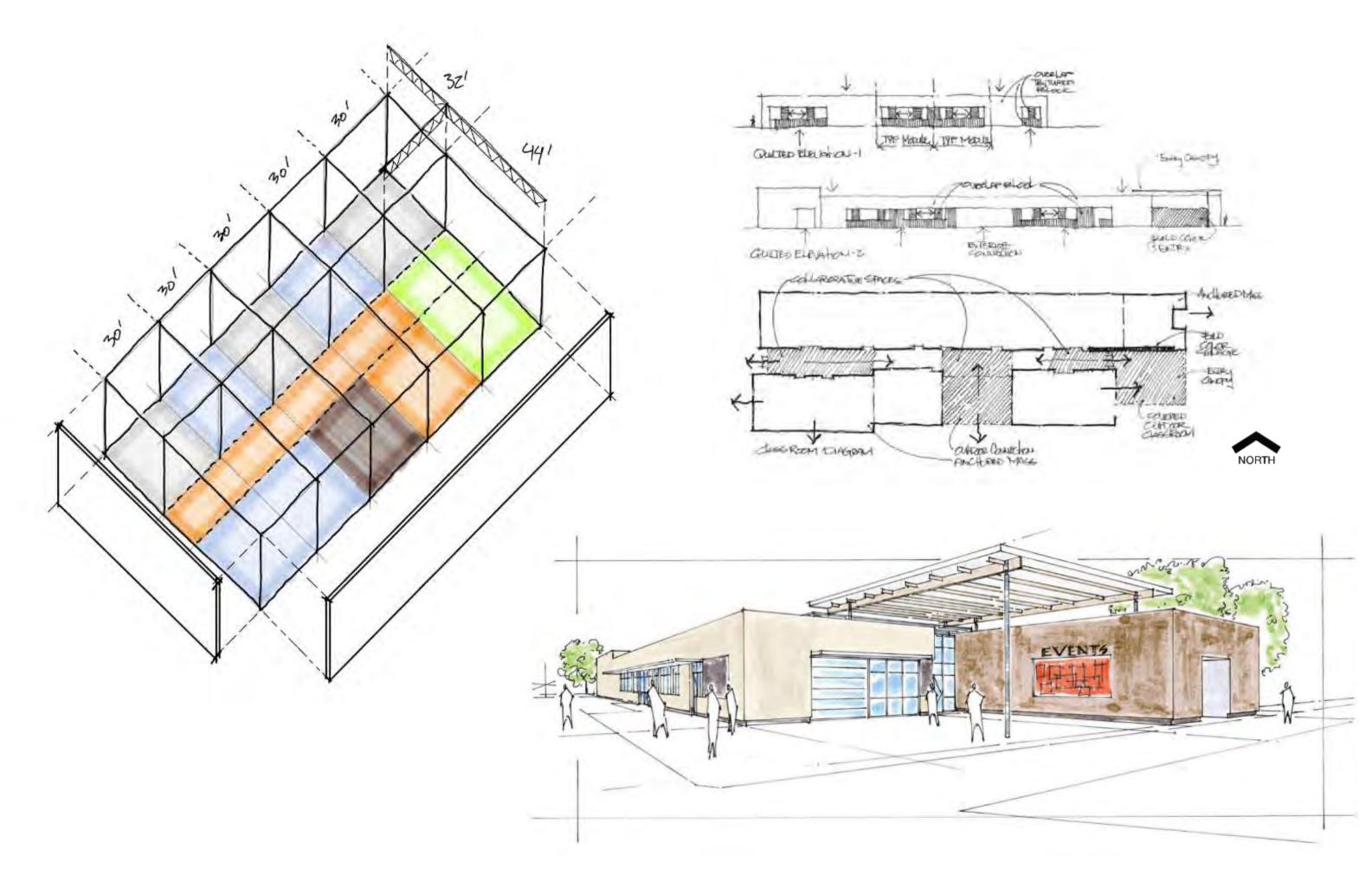
This process started with us exploring and challenging the Ed Spec to ensure we met the district's goals, and continued until we completed Schematic Design.

THIS PROCESS RESULTED IN MORE ENGAGED PARTICIPANTS AND, WE BELIEVE, BETTER, MORE RAPID DECISION MAKING.





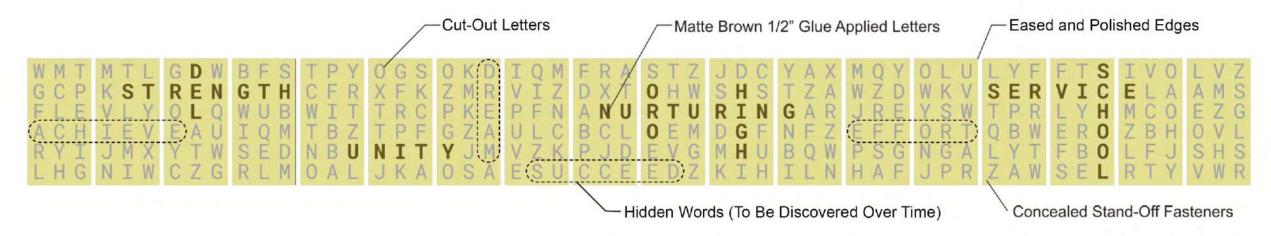




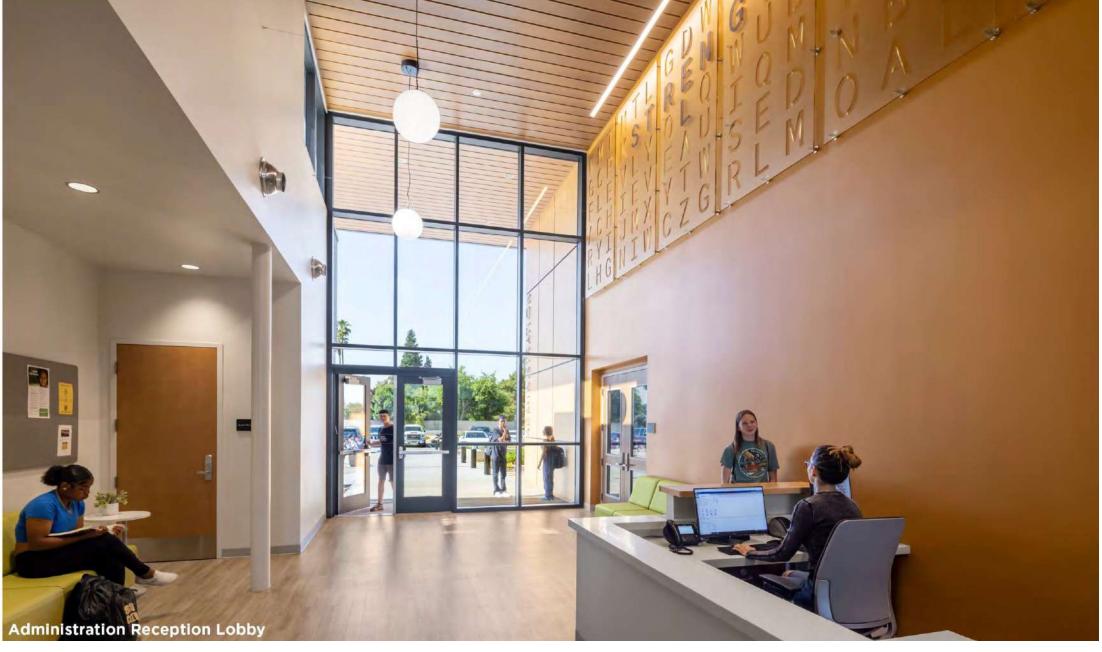


DESIGN FOR DISCOVERY

Admin Lobby Word Search

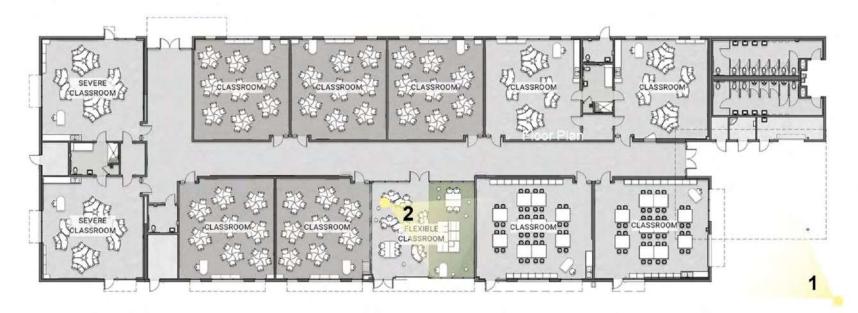










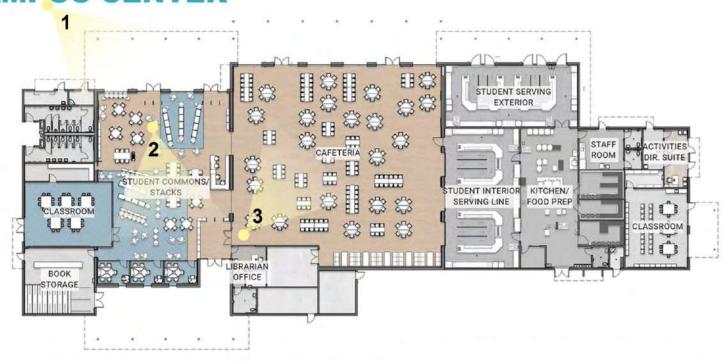




DISCOVERY PAVILION FLOOR PLAN



CAMPUS CENTER





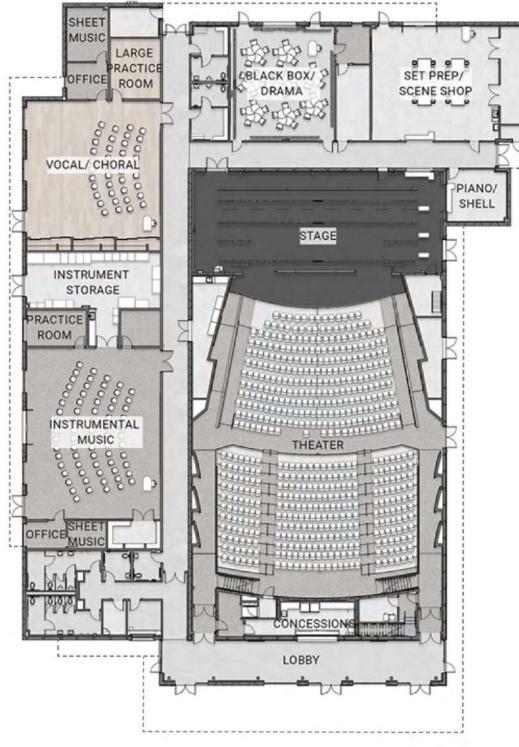












PERFORMING ARTS











2,500

12%

Reduction in Grade Failure Rates

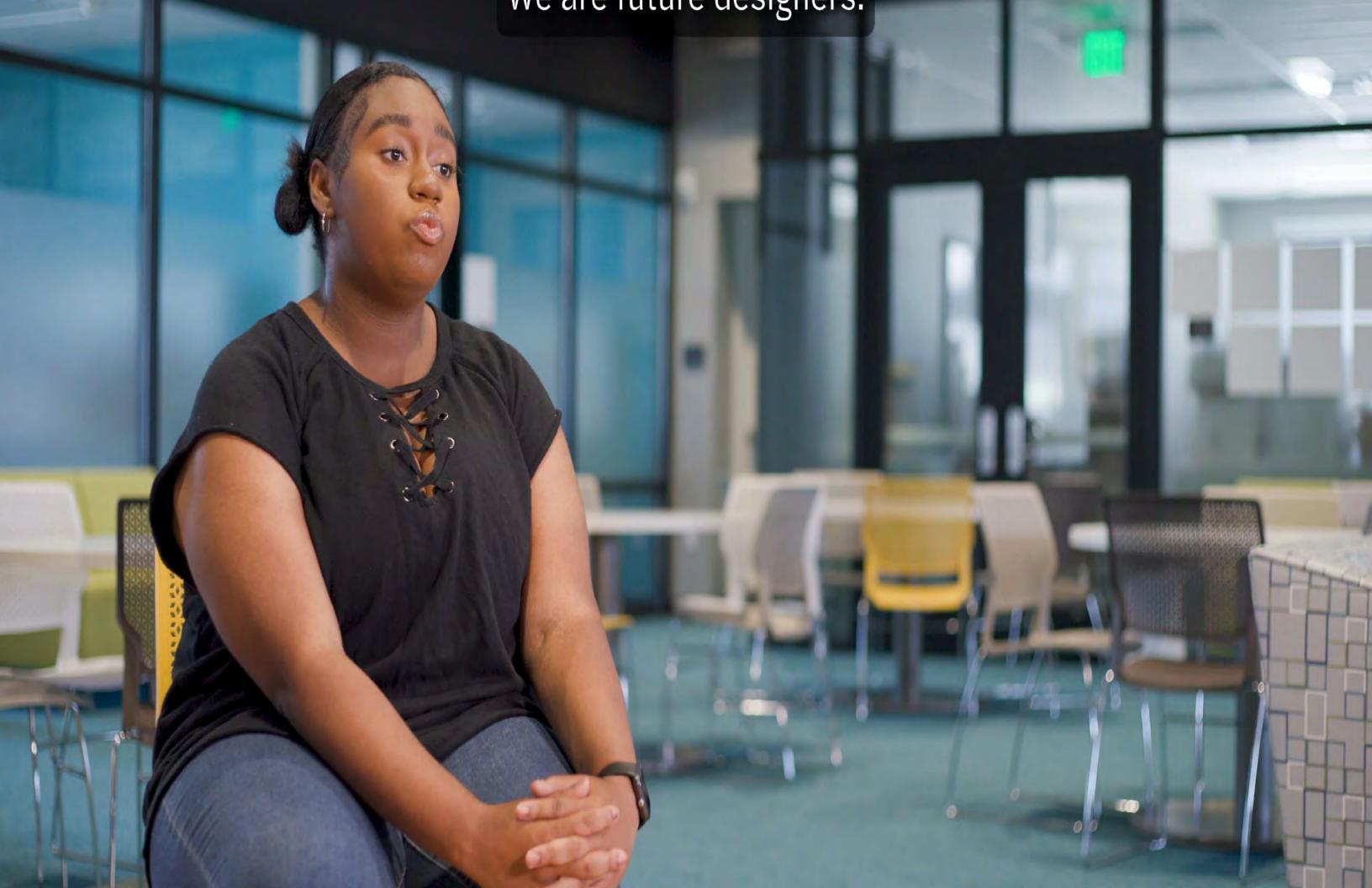
89% Increase in Studen Receiving 4.0 GPA Increase in Students

"This place is different. The whole design of the facility was meant to inspire learning."

Gail Bentley Del Oro High School Principal.







DESIGN TRENDS, SUSTAINABILITY, BENEFITS AND CHALLENGES OF DESIGNING WITH CMU



Athenel Trazo Senior Designer, AC Martin



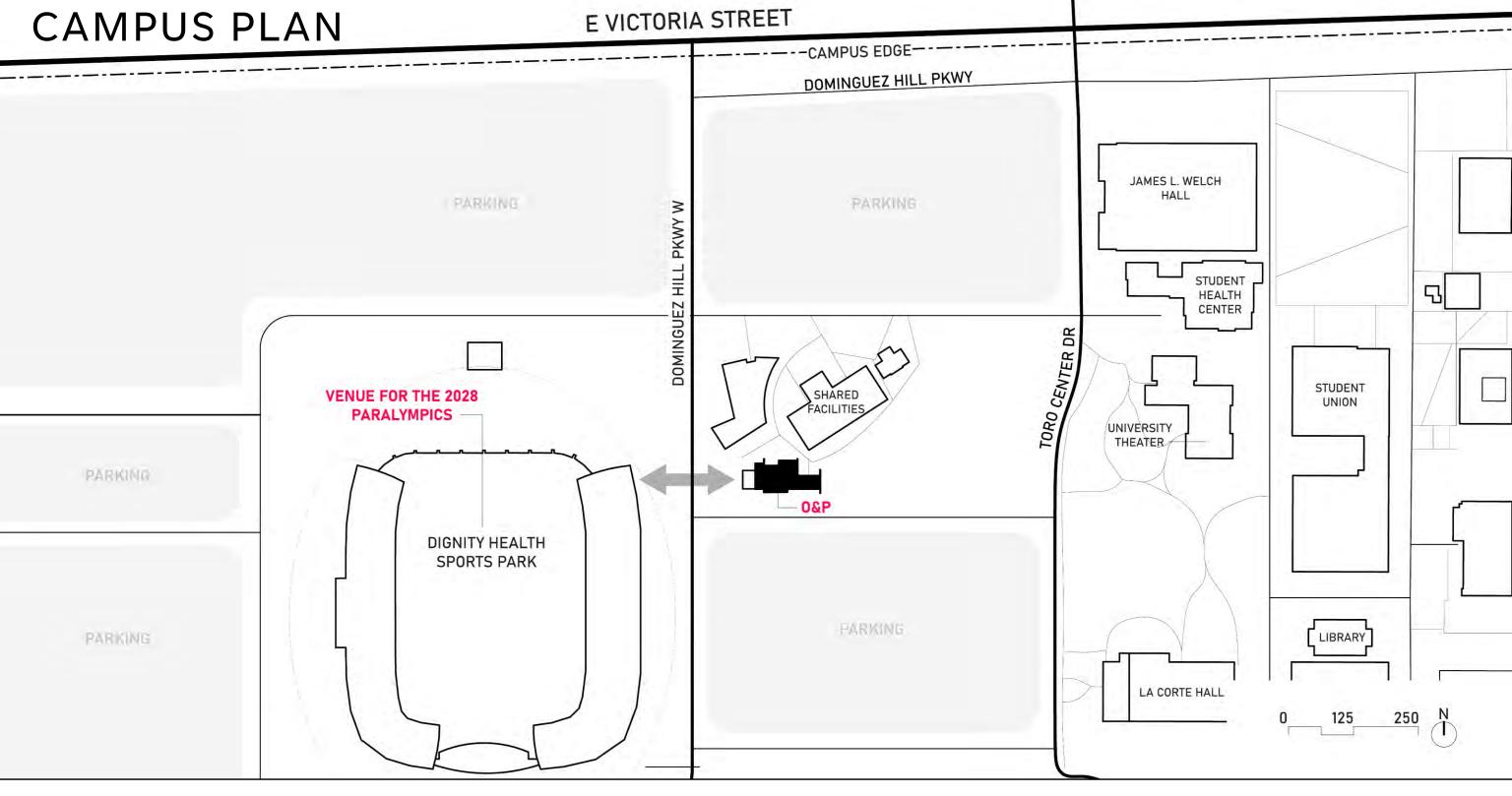
#masonry matters



VISION

- Create a distinctive permanent home for the only O&P program in the CSU system
- Highlight innovation and collaboration
- Increase community engagement
- Draw more people to vocational programs





ACMARTIN





The CSUDH Orthotics and Prosthetics Fabrication Lab will serve as the repair facility for events held in the adjacent Dignity Sports Park at the 2028 Paralympic Games.

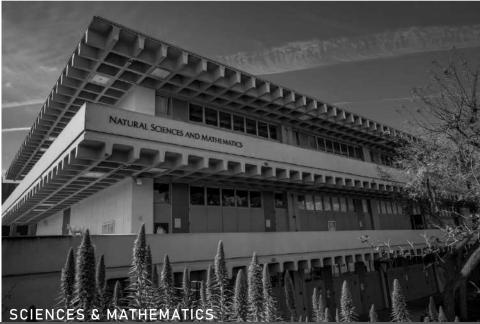














ACMARTIN

ELEVATIONS

- (A) EXTERIOR CEMENT PLASTER
- (B) CMU IN NATURAL GREY PRECISION FINISH
- (C) CMU BREEZE BLOCK IN NATURAL GREY PRECISION FINISH
- (D) METAL PANEL IN DARK BRONZE
- (E) EXPOSED STEEL STRUCTURE W/ HIGH PERFORMANCE COATING
- (F) ALUMINUM STOREFRONT SYSTEM W/ HIGH PERFORMANCE GLAZING







ACMARTIN



ACMARTIN





DESIGN TRENDS, SUSTAINABILITY,
BENEFITS AND CHALLENGES OF DESIGNING
WITH CMU

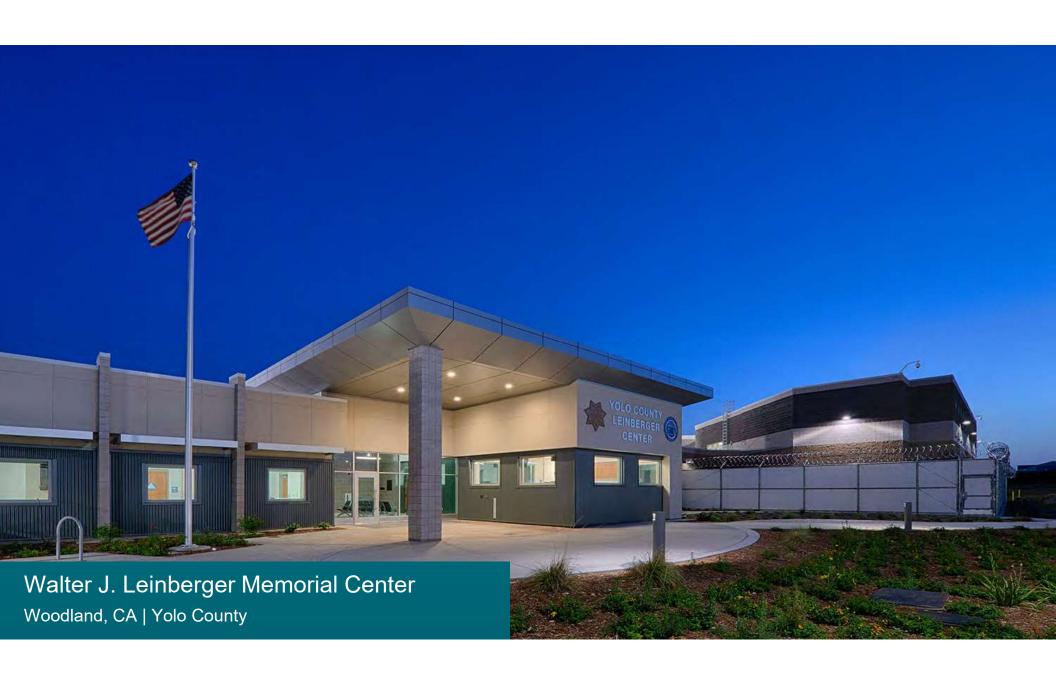


Carol Lanham Principal, Lionakis Civic Studio



#masonry matters

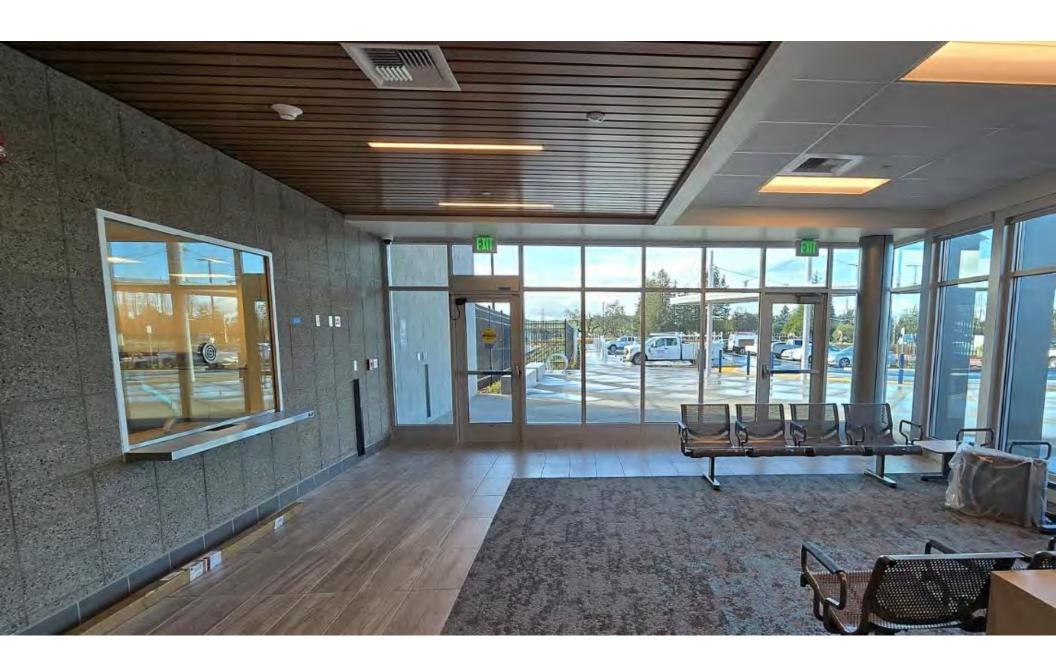


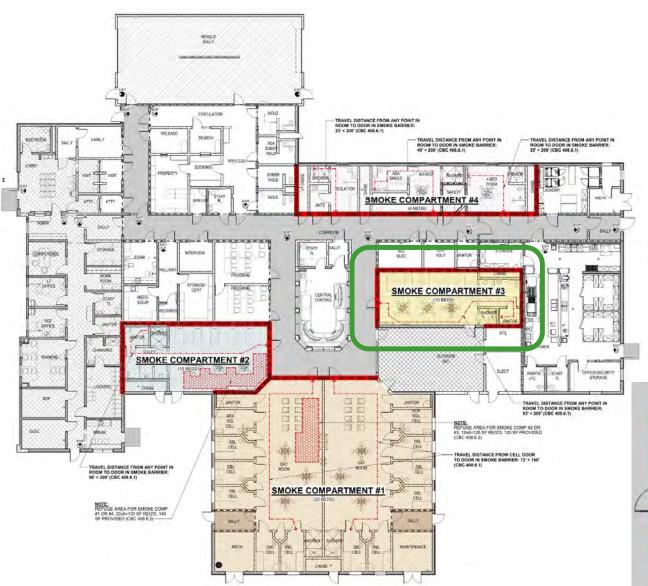


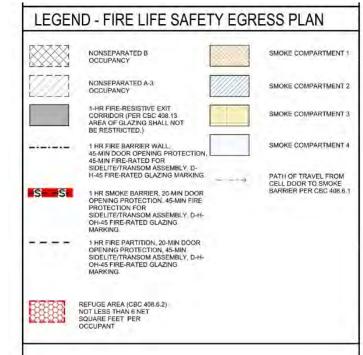


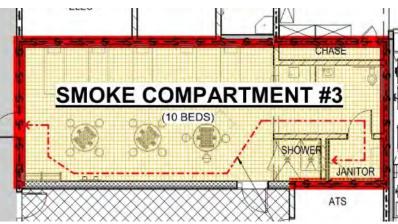


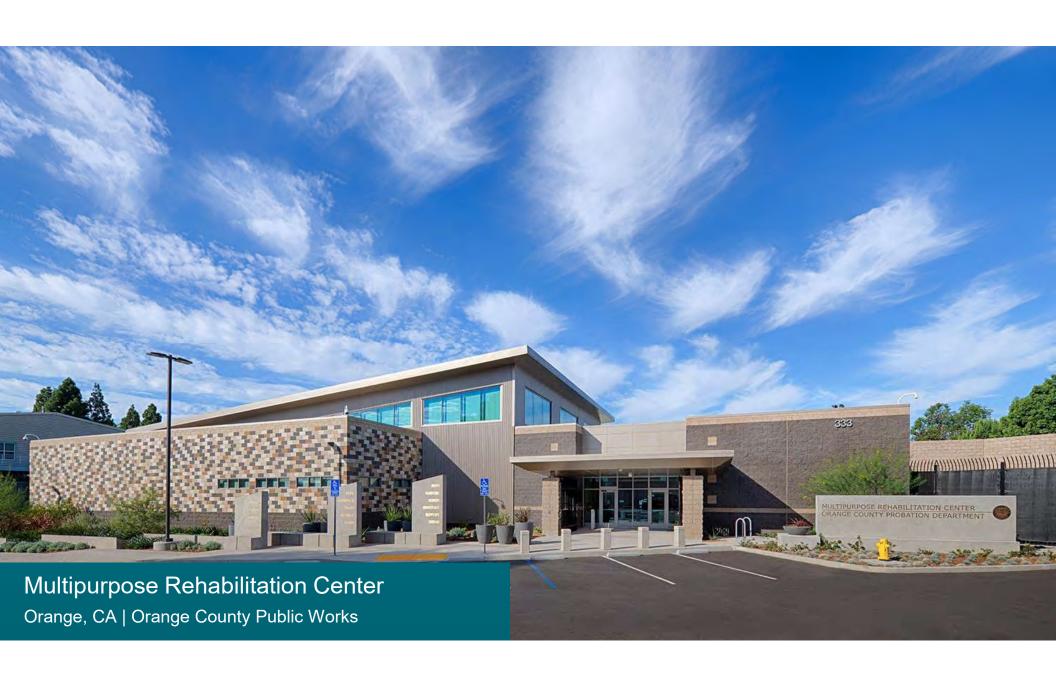




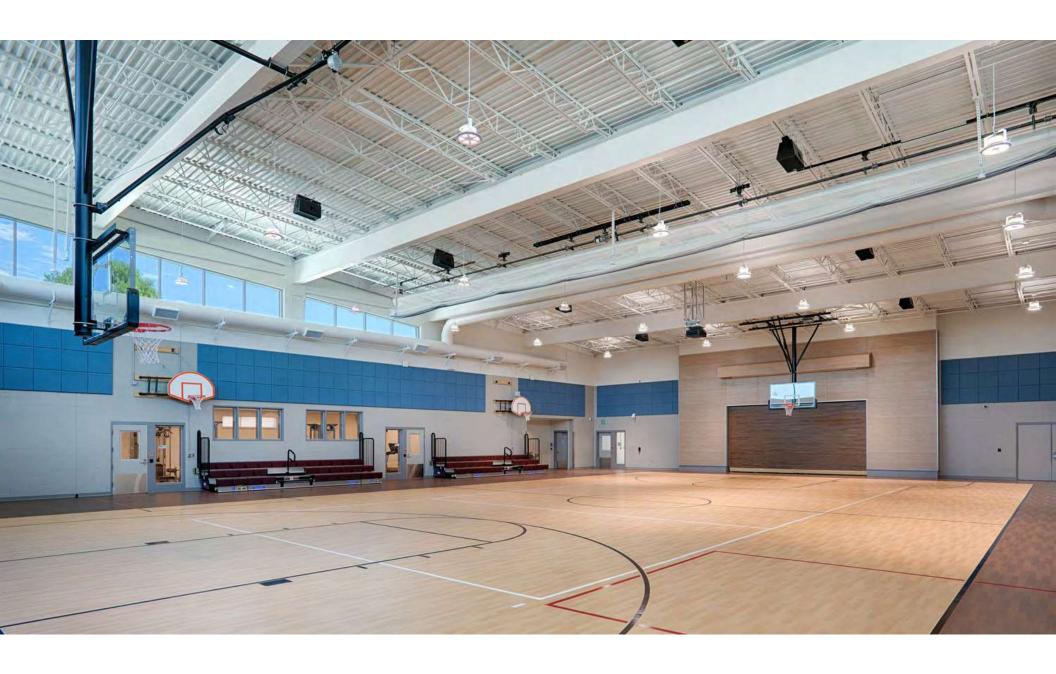




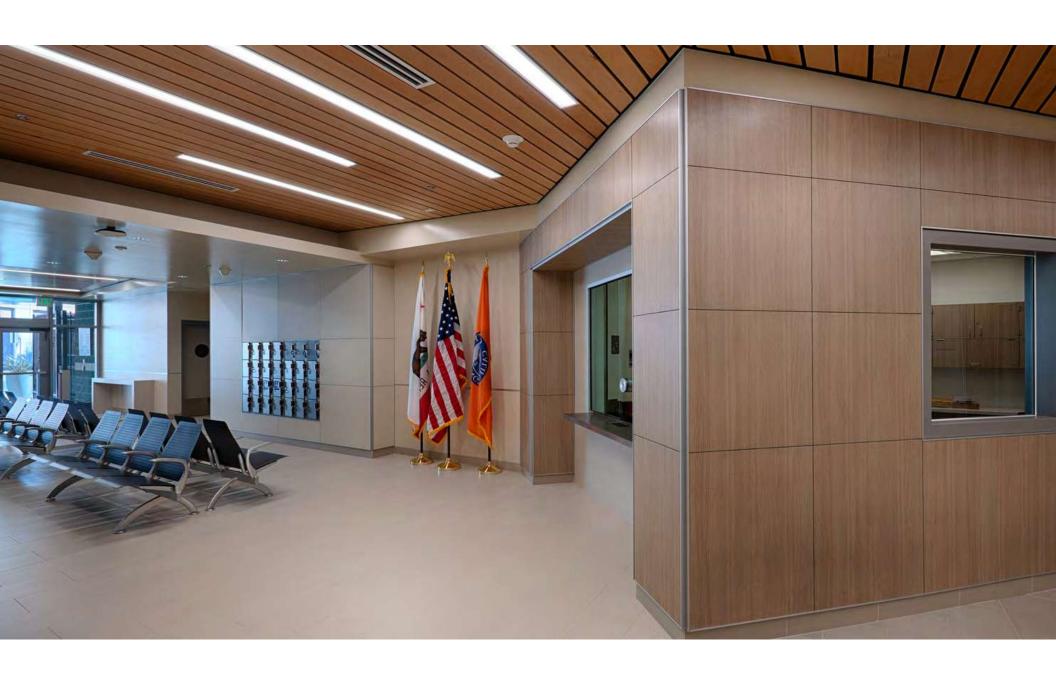














CONCRETE MASONRY ARCHITECTURE PANEL

DESIGN TRENDS, SUSTAINABILITY,
BENEFITS AND CHALLENGES OF DESIGNING
WITH CMU



Dominique Houriet
Architect and Partner, oo-d-a studio



#masonry matters

[oo-d-a]

develop / design / build

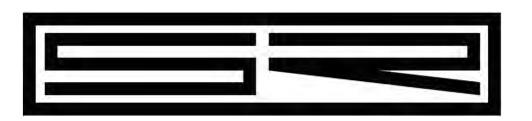




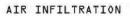






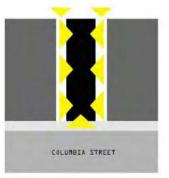








CIRCULATION



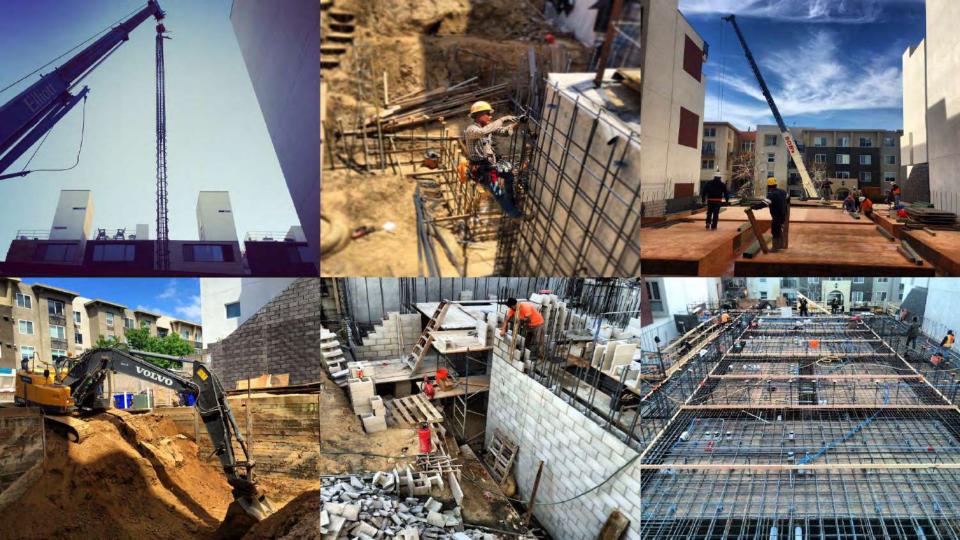
LIGHT WELLS



FENESTRATIONS

















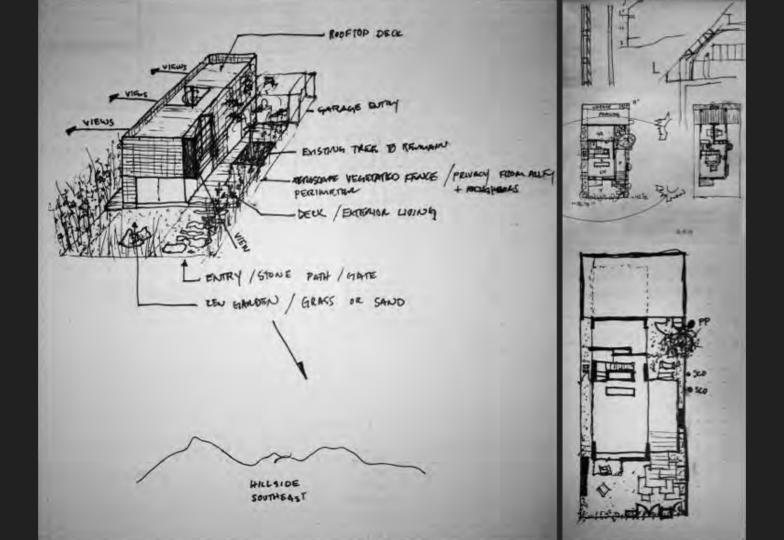


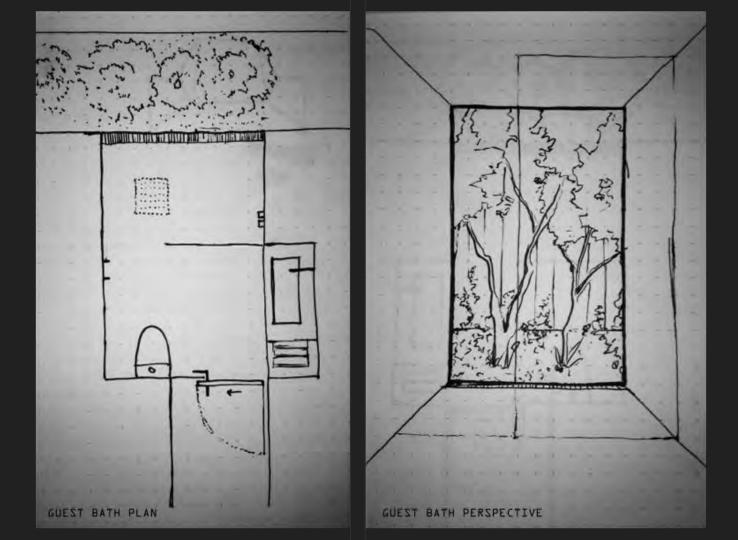


HUH SECOND LEVEL . W



HUL ROOF DECK . W







2

EAST ELEVATION

1/4" + 110"















SANDIEGO HOME/GARDEN

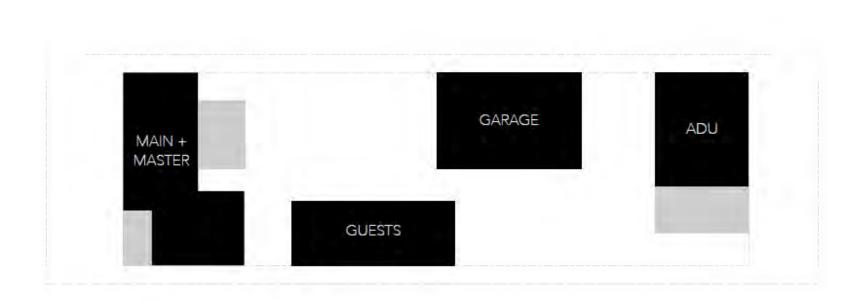
LIFESTYLES

A Warm Welcome

Nostalgic modern gem, upside-down family home, artful remodel



THREE4















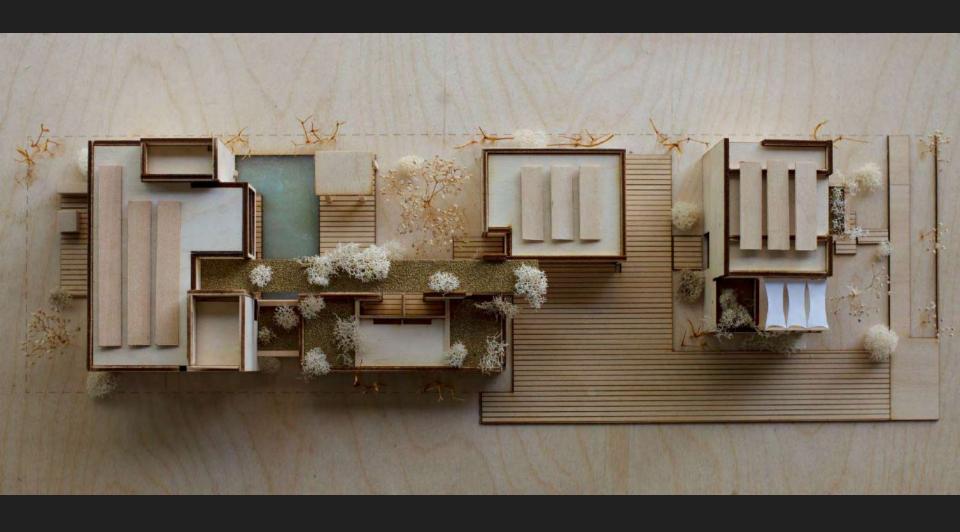












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SHOVEL READY, 32 UNIT COMPLETE COMMUNITIES PROJECT IN HEART OF NORTH PARK.

UNITS

10 LOFTS

21 STUDIOS

1TWO BEDROOM

5 AFFORDABLE UNITS

PARKING

8 GARAGE

1 ADA

1 SURFACE

3 MOTORCYCLE

13 BIKE RACKS

AMENITIES

ROOF TOP DECK (OCEAN VIEWS)

ELEVATOR

LARGE PRIVATE PATIOS

INTERIOR / EXTERIOR LIVING

DOCUMENTS AND BUDGETS

FULL SET OF CDs

SET OF HARD BIDS

CONSTRUCTION BUDGET

PROFORMA

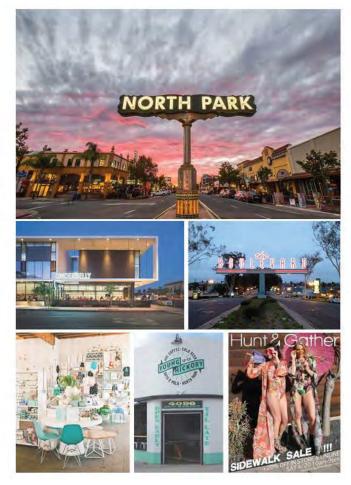
SDGE WORK ORDERS

RIGHT OF WAY PERMIT

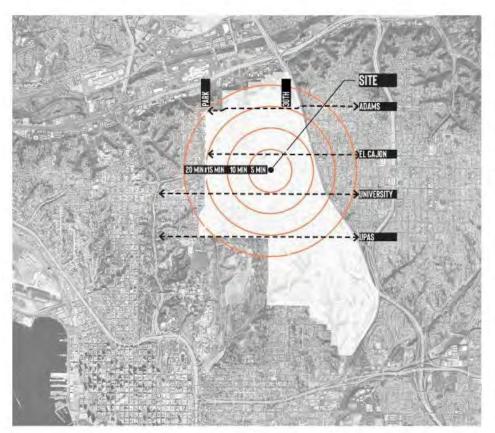


LOCATION.





LOCATION.









ALLEY

B. 1 BEDROOM / LOFT

C 2 BEDROOM.

D. STUBIO

E. PRIVATE PATIO

F. ELEVATOR

G ELEVATOR MACHINE ROOM

H. EXIT STAIR 1

EXIT STAIR 2
 J. ZEN GARDEN

K. PLANTER

T BOWWON TISEN JIMEE

M. BIKE PARKING

N. PARKING

O. ADA PARKING

P. MOTOR CYCLE PARKING

Q. MAILBOXES

R. TRASH SHOOT

S. FIREPUMP

T. ELECTRICAL METER

U. STORAGE LOW VOLTAGE

V. TRANSFORMER



POLK AVE

LEVEL: 02

A. SIDEWALK

B. 1 BEDROOM / LOFT

C. 2 BEDROOM

DI STUDIO

E. PRIVATE PATIO

F. ELEVATOR

IS ELEVATION MACHINEROOM

H. EXIT STAIR 1

I. EXIT STAIR 2

J. ZEN GARDEN

K PLANTER

L. COMMON OPEN STACE

M.BIKE PARKING

N. PARKING

O. ADA PARKING

P. MOTOR CYCLE PARKING

Q. MAILBOXES

R. TRASH SHOOT

5 FIREPUMP

T ELECTRICAL METER

U. STORAGE LOW VOLTAGE

V. TRANSFORMER



ALLEY

- A. SIDEWALK
- B | BEDROOM / LOFT
- C. 2 BEDROOM
- D. STUDIO
- E. PRIVATE PATIO
- F. ELEVATOR
- IG. ELEVATOR MACHINE ROOM
- H. EXIT STAIR 1
- I. EXIT STAIR 2
- L ZEN GARDEN
- IS PLANTER
- L. COMMON OPEN SPACE
- M. BIKE PARKING
- N. PARKING
- O. ADA PARKING
- P. MOTOR CYCLE PARKING
- Q MAILBOXES
- R. TRASH SHOOT
- 5. FIRE PUMP
- T. ELECTRICAL METER
- U. STORAGE LOW VOLTAGE
- V. TRANSFORMER



POLK AVE



RENT ROLL.

UNIT	UNIT TYPE	SF	PSF (MONTHLY)	PSF JANNUALI	RENT (MONTHLY)	RENT IANNUALI
Unit 1 - 1 Bedroom Loft	lofts	690	\$3.80	\$45.65	S2.624.88	S31498.50
Unit 2 - 1 Bedroom Loft	lofts	690	\$3.73	S4478	\$2,574.85	\$30,898.20
Unit 3 - 1 Bedroom Loft Very Low (15%)	lofts	690	\$213	\$25.54	\$1,46873	\$17,624.74
Unit 4 - Studio	studio	496	S459	\$55.04	\$2,275.00	S27,300,00
Unit 5 - Studio	studio	496	\$4.34	S5202	S2.150.16	\$25,80192
Unit 6 - Studio - Managers Unit	studio	496	S289	\$34.67	S1,433.03	\$17,196.32
Unit 7 - 2 Bedroom - Moderate (15%)	2 bedroom	882	\$3.20	538.45	\$2.825.71	\$33,908.49
Unit 8 - Studio	studio	496	\$4.84	\$58.06	\$2,400.00	\$28,800.00
Unit 9 - Studio	studio	496	S4,59	\$55.04	S2,274.99	S27,299,84
Unit 10 - Studio	studio	496	\$4.59	\$55.04	S227499	527,299.84
Unit 11 - Studio	studio	496	\$459	\$55.04	\$2,27499	\$27,299,84
Unit 12 - Studio - Very Low (15%)	studio	496	\$235	\$2824	\$1,167.13	\$14,005.55
Unit 13 - Studio	studio	496	S459	\$55.04	\$2,27499	\$27,299.84
Unit 14 -Studio	studio	496	\$4.64	\$55.65	\$2,300.20	\$27,602.40
Unit 15 - Studio	studio	496	\$4.59	\$55.04	\$2,27499	\$27,299,84
Unit 16 - Studio	studio	496	\$4.59	\$55.04	\$2,274.99	\$27,299.84
Unit 17 - Studio-Low (10%)	studio	496	\$283	\$33,92	\$1,40219	\$15,826,30
Unit 18 - Studio	studio	496	S4.64	\$55,65	S2.300.20	S27,602.40
Unit 19 - Studio	studio	496	\$4.59	\$55.04	S2.274.99	\$27,299.84
Unit 20 - Studio	studio	496	\$459	\$55.04	S227499	S27.299.84
Unit 21 - Studio	studio	496	\$459	\$55,04	S2,274,99	S27,299.84
Unit 22 - Studio-Moderate (15%)	studio	496	\$4.43	S53.13	S2196.04	S26,352.48
Unit 23 - Studio	studio	496	S474	\$56.85	\$2,349.80	S28.197.60
Unit 24 - 1 Bedroom Loft	lofts	690	\$3.91	\$46.96	S2.700.20	\$32,40240
Unit 25 - 1 Bedroom Loft	lofts	690	S3.84	\$46.09	SZ650.18	\$31,802.10
Unit 26 - 1 Bedroom Loft	lofts	690	\$3.84	S46.09	\$2,650.18	S31,802.10
Unit 27 - 1 Bedroom Loft	lofts	690	\$3.84	\$46,09	S2,650,18	S3180210
Unit 28 - 1 Bedroom Loft	lofts	690	\$3.95	\$47,39	S2,725.00	\$32,700.00
Unit 29 - Studio	studio	496	\$4.69	\$56.25	\$2,325.00	\$27,900.00
Unit 30 - 1 Bedtoom Loft	lofts	690	\$3,95	\$47.39	S2,724.93	\$32,699.10
Unit 31 - Studio	studio	496	\$459	\$55,04	\$2,27499	\$27,299.84
Unit 32 - 1 Bedroom Loft	lofts	690	\$3.95	S47.39	\$2,724.93	\$32,699.10
Building Total					\$73,368.35	\$880,420,21



COST + ASSUMPTIONS.

General	Areas
Units	32
Parking Spaces	10
Parking Ratio	0.31
Parking GSF	843
Residential Efficiency	59,80%
Gross Bldg. SF	31,262
NRSF Residential	18,198
Parking SF	843

Cost Breakdown	lotal	Per SF (Gross)	Per SF (Net)
Hard Costs	\$9,019,652	\$289	\$496
Loan Terms		Construction	Perm
Rate		TBD	TBD
Term		24 Months	95 Months
LTC		TBD	TBD
Loan Amount		TBD	TBD

Stabilization	Total	Per Unit
Effective Gross Income	\$949,690	\$29,678
Operating Expense	\$270,505	-58,453
NOI @ Stabilization	\$679,186	\$21,225
Stabilized Value	\$16,979,646	\$530,614

Unit Mix	Units	SF	Rent PSF
1 Bed 1 Bath Loft	10	690	\$3,69
Studios	21	496	\$4.32
2 Bed 1 bath loft	1	882	\$3.20
Total / Avg.	32	2,068	\$4.03

Hard Costs	Total	S/Unit	\$/SF
Construction Hard Costs	\$7,036,920	\$219,904	225
Demo	\$30,000	\$938	1
Parking	\$315,938	\$9,873	10
General Requirements	\$10,300	\$322	O.
Hard Cost Contingency (12%)	\$887,179	\$27,724	28
Site Supervision	\$739,316	\$23,104	24
Total Hard Costs (Gross)	\$9,019,652	\$281,864	\$289
Total Hard Costs (Net)	\$9,019,652	\$281,864	\$496























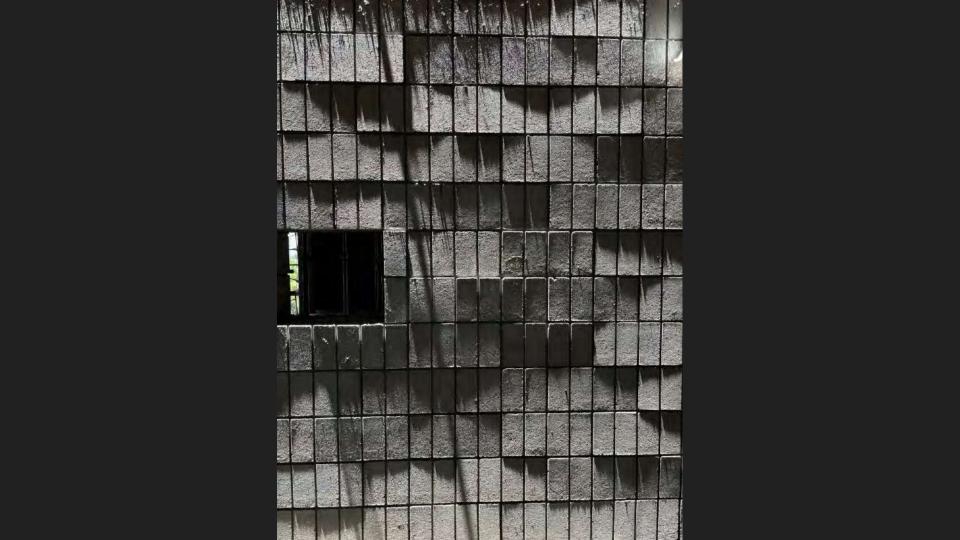


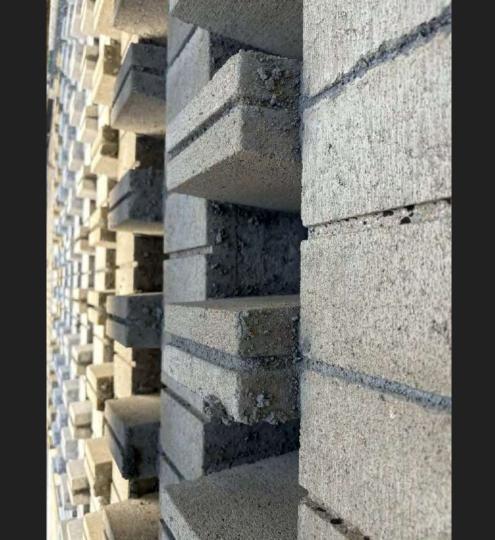


















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