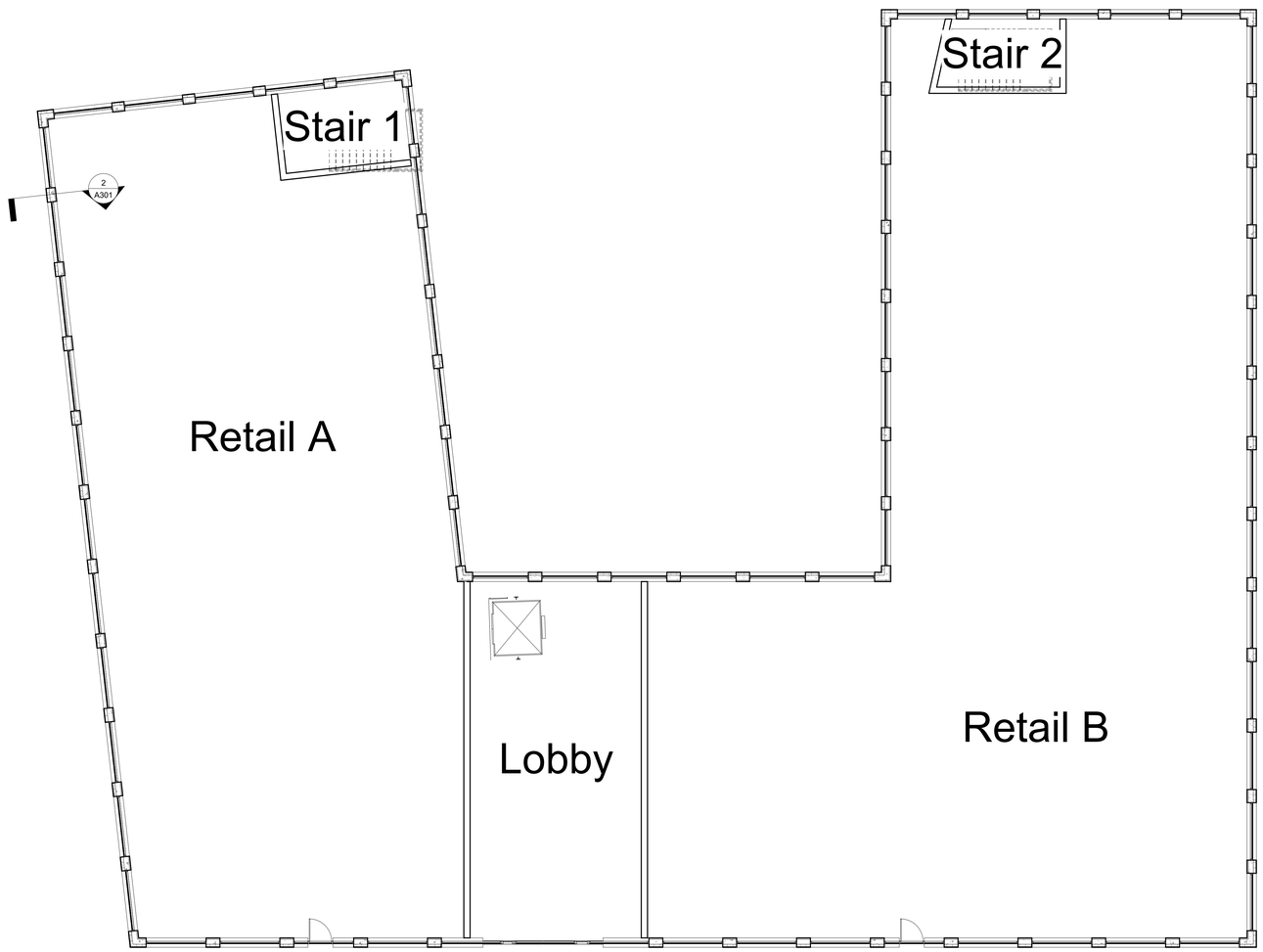


GROUND FLOOR (Level 1, concrete podium): Lobby + Retail A + Retail B. Entry = 16ft storefront curtain wall at the lobby with a double glass door.
Walls: Ext Wall - Ground Concrete Podium (R-22.6). Slab: 6in concrete slab on grade + 2in XPS (R-10.9). Stair 1 + Stair 2 go to the street, elevator + service shaft at the core.

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Courtyard Block - San Mateo (Module 4)

Ground Floor Plan

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

A101

Scale 1/8" = 1'-0"

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TYPICAL FLOOR (Levels 3-7, wood frame over 2-level concrete podium = 5 over 2): 14 units = 2 Studio / 6 x 1 Bed / 4 x 2 Bed / 2 x 3 Bed.
Core: Stair 1 (fully modeled, 20 risers @ 6.6in, 11in treads), Stair 2 remote, elevator, service shaft running Level 1 to Roof.
TRAVEL DISTANCE (red line): farthest point in the 3 Bed unit to Stair 2 = approx. 126 ft. Max allowed 250 ft (sprinklered) = OK. All unit doors 36in (min 32in clear).
Walls: Ext Wall - Upper Wood Stud (R-29.9). Floors: Wood I-Joist + Gypcrete (finish floor separate from structure).

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Courtyard Block - San Mateo (Module 4)

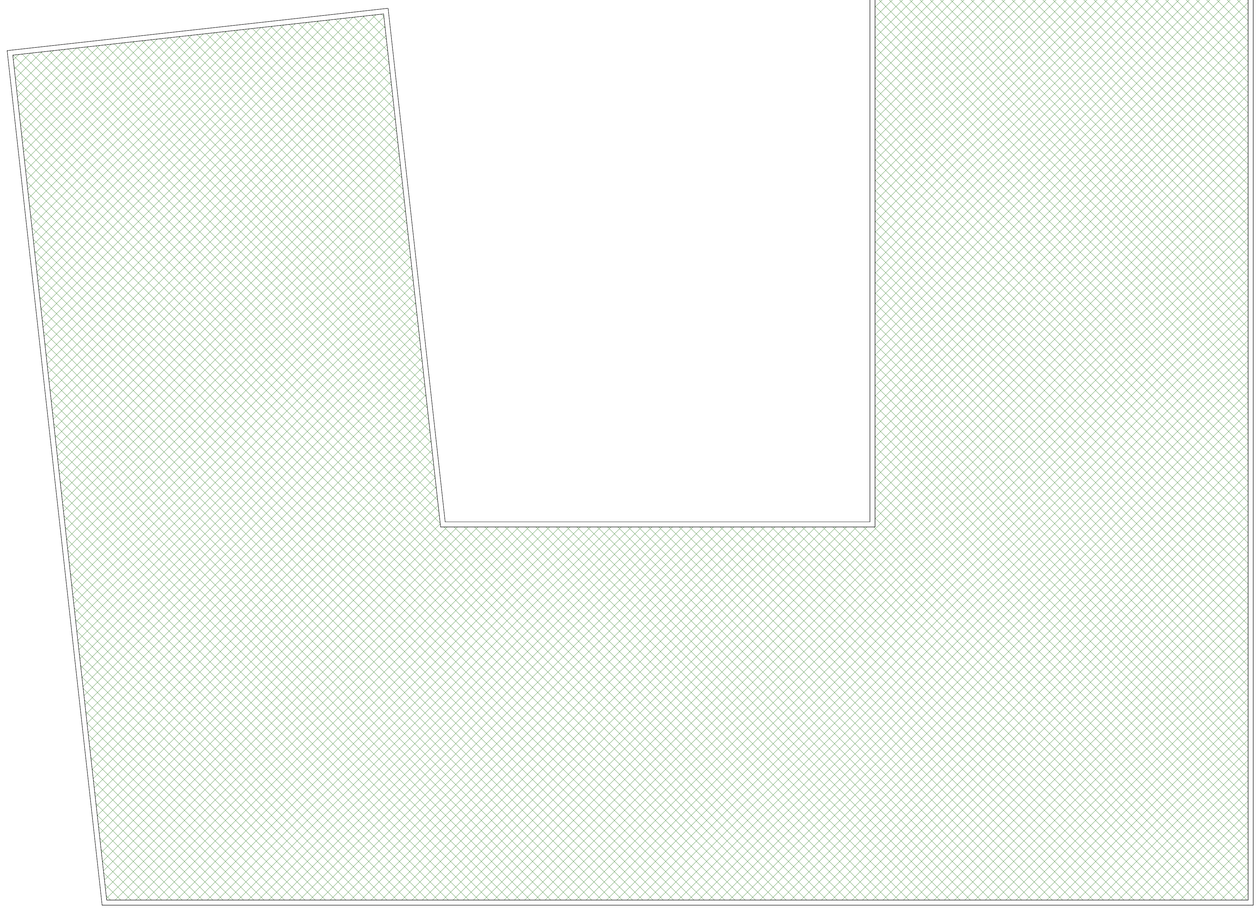
Typical Floor Plan (Levels 3-7)

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

A102

Scale 1/8" = 1'-0"

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ROOF: Green roof over the whole roof (no terrace). Roof - Green Roof (R-41): 4in growing medium / drainage board / membrane / cover board / 6in polyiso / plywood deck / I-joists / GWB.

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Courtyard Block - San Mateo (Module 4)

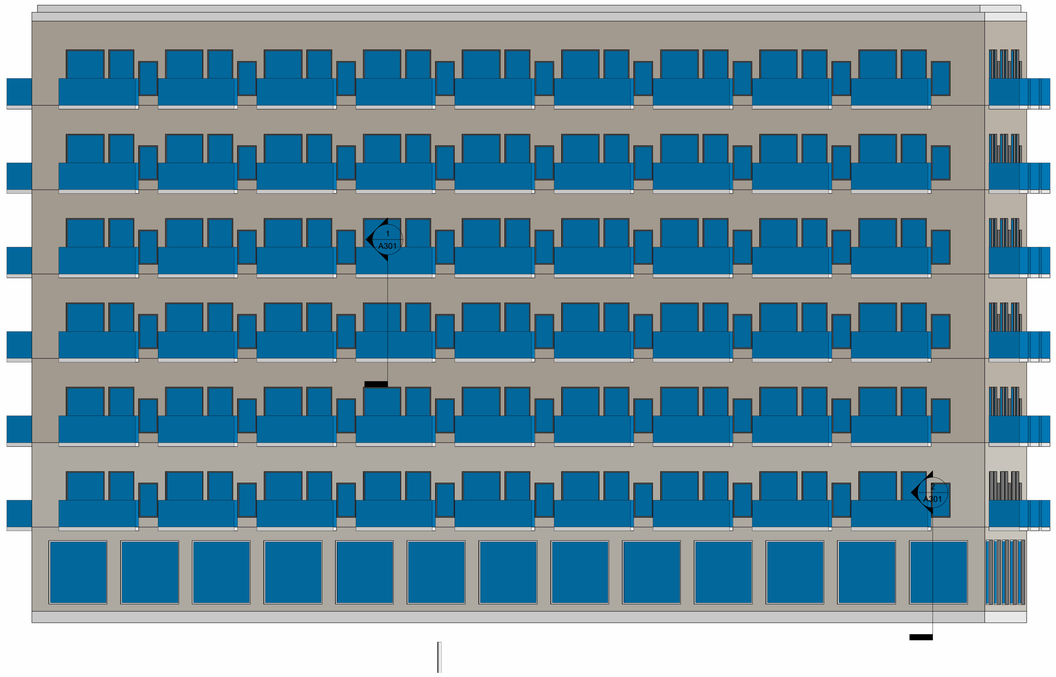
Roof Plan

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

A103

Scale 1/8" = 1'-0"

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SOUTHEAST ELEVATION (shaded facade): 2ft-0in horizontal overhangs over every SE window, Levels 2-7 (156 total).
Why: my Week 2 sun hours study showed the long SE facade gets the most direct sun. At San Mateo (37.6 N) the summer noon sun is ~76 deg high, so a 2ft overhang shades a 6ft tall window, while the winter noon sun (~29 deg) still comes in under it. SE and SW windows also use the lower SHGC glass (U-0.28, SHGC 0.25).

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Courtyard Block - San Mateo (Module 4)

Southeast Elevation (Shaded)

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

A201

Scale 1/8" = 1'-0"

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NORTHEAST ELEVATION (street / main entry): storefront curtain wall at the lobby entry bay only. North-facing glass: U-0.30, SHGC 0.40 (more winter daylight, less sun to block).

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Courtyard Block - San Mateo (Module 4)

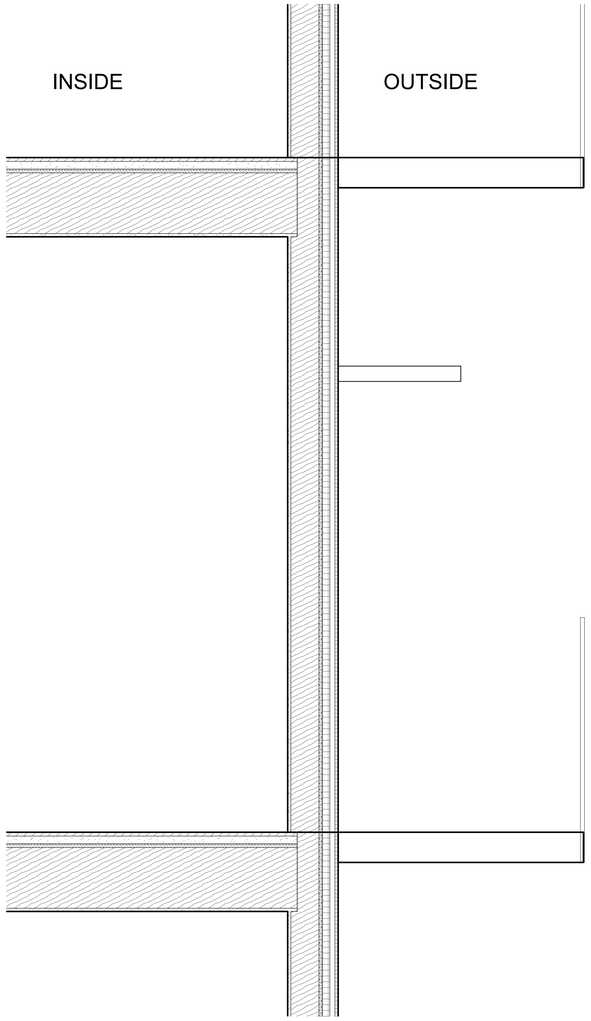
Northeast Elevation (Entry)

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

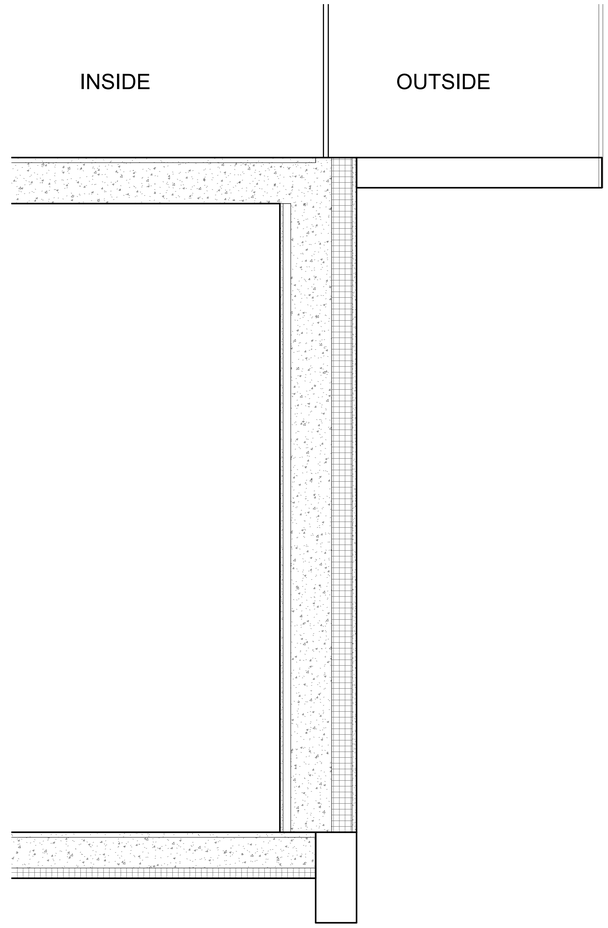
A202

Scale 1/8" = 1'-0"

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UPPER WALL LAYERS
(outside to inside)
1 5/8in fiber cement siding
2 1in rainscreen air gap
3 1-1/2in mineral wool board (cont. insulation)
4 5/8in plywood sheathing
5 2x6 studs @16in o.c. + R-21 batt
6 5/8in gypsum board
TOTAL R-29.9



GROUND PODIUM WALL LAYERS (outside to inside)
1 7/8in cement plaster
2 4in XPS rigid insulation (cont.)
3 8in cast-in-place concrete
4 1-1/2in furring / air space
5 5/8in gypsum board
TOTAL R-22.6

WALL SECTIONS at 1in = 1ft-0in, layers numbered outside to inside. LEFT: typical upper wall, Ext Wall - Upper Wood Stud, total R-29.9 (min R-19). RIGHT: ground floor wall, Ext Wall - Ground Concrete Podium, total R-22.6.
Floors: Wood I-Joist + Gypcrete (3/4in vinyl / 1-1/2in gypcrete / 3/4in plywood / 11-7/8in I-joists + batt / 5/8in GWB). Podium slab 8in concrete + 1in finish.

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No.	Description	Date

Courtyard Block - San Mateo (Module 4)

Wall Sections

Project Number	CEE120A-M4
Date	Issue Date
Drawn By	V. Lim
Checked By	CEE 120A

A301

Scale 1" = 1'-0"

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