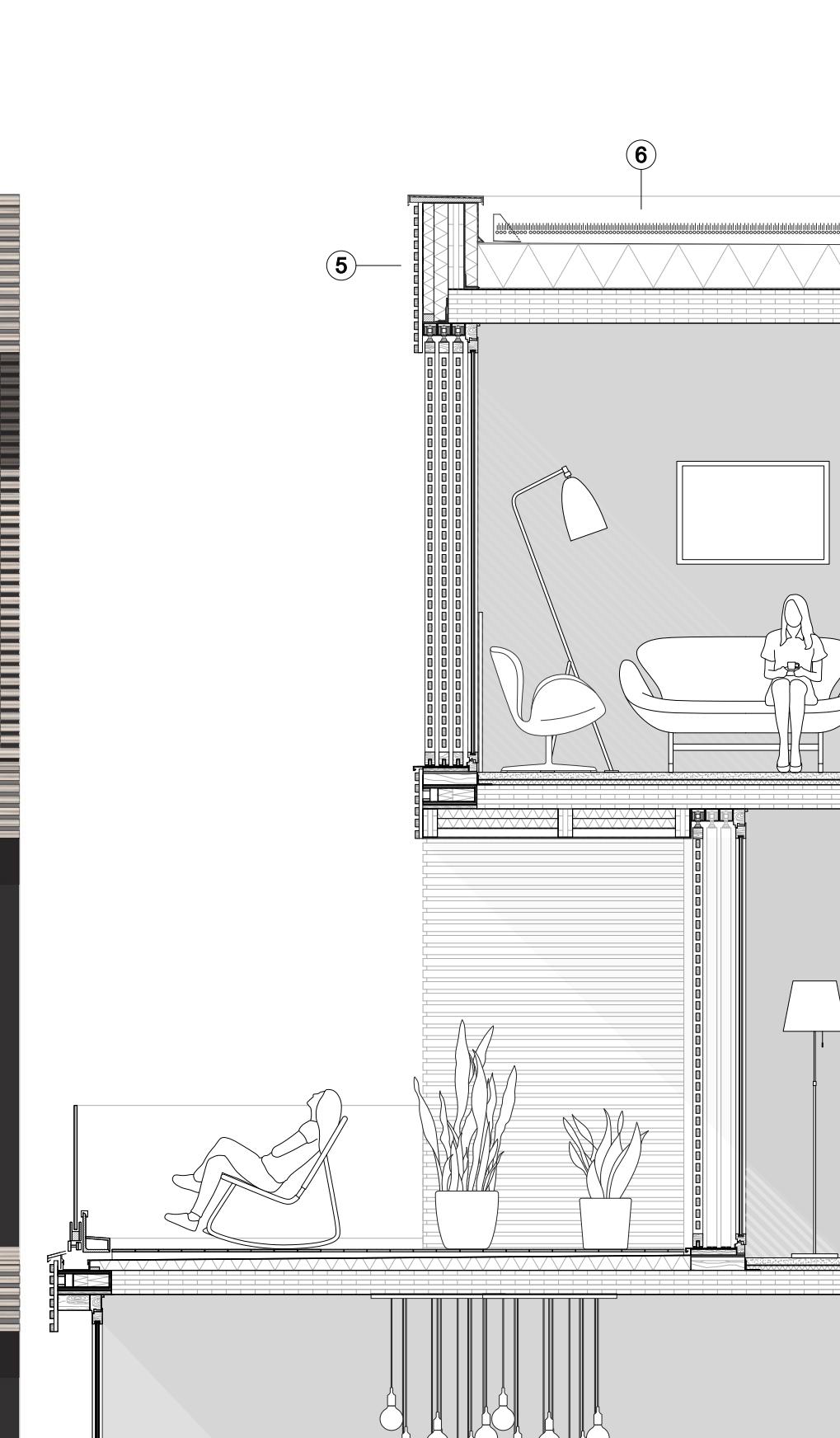
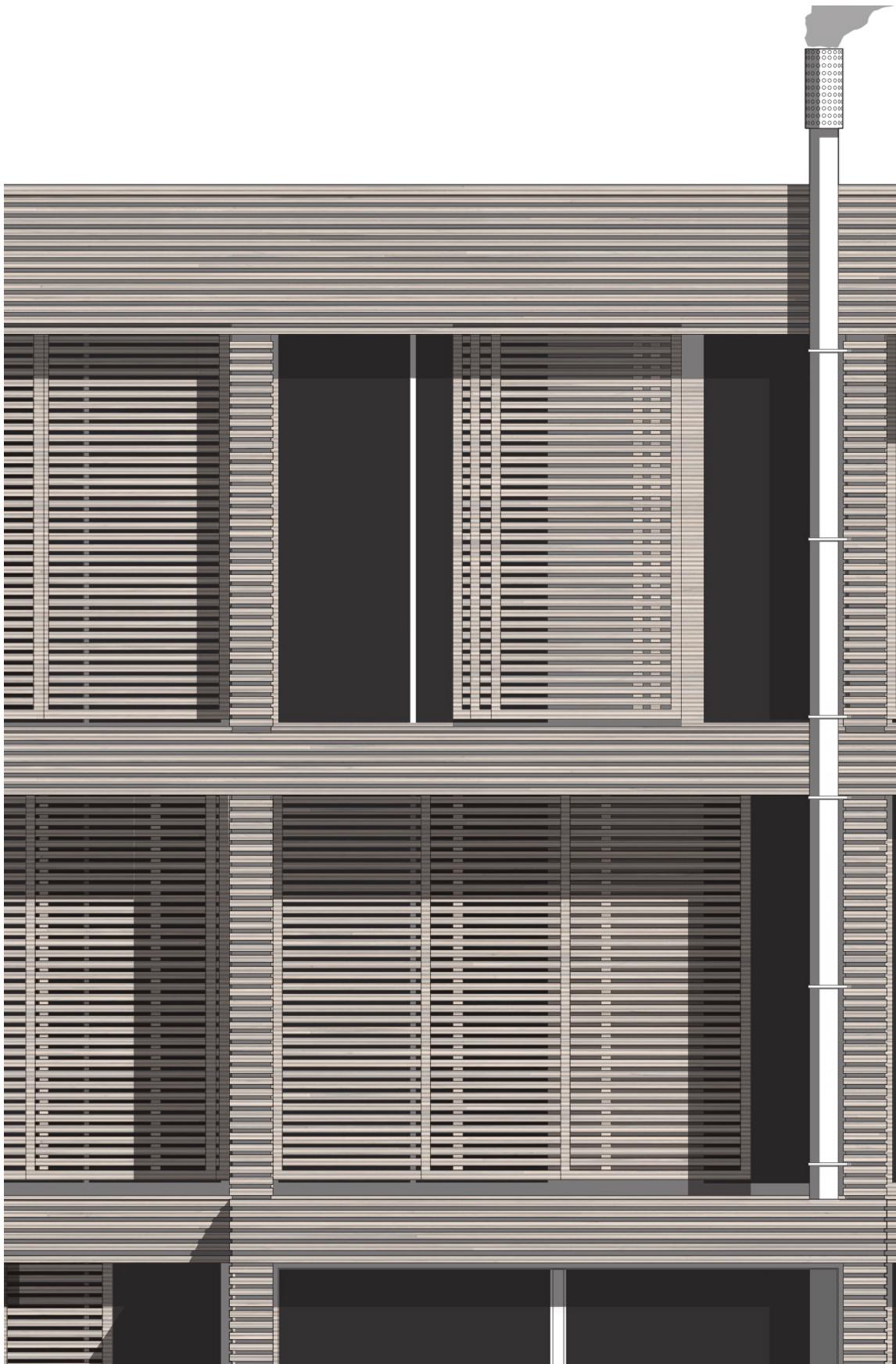


THE HILL

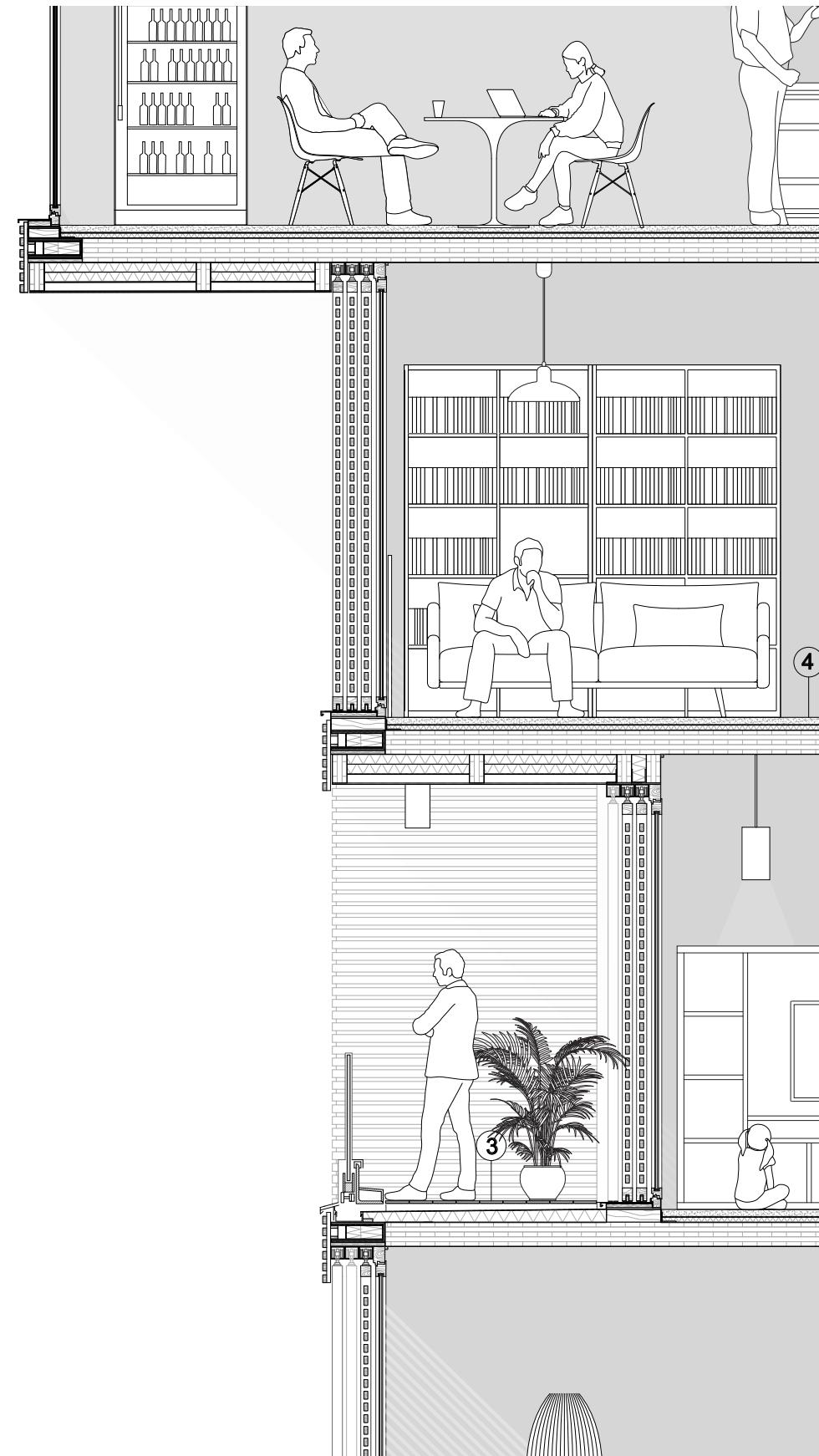
Shahryar Beyzavi + Tristan Snyder +
Lovejeet Gehlot

Lars + Christina

Facade Details and Environmental Systems Integration



THE HILL



Shahryar Beyzavi + Tristan Snyder +
Lovejeet Gehlot

Lars + Christina

Facade Details and Environmental Systems Integration

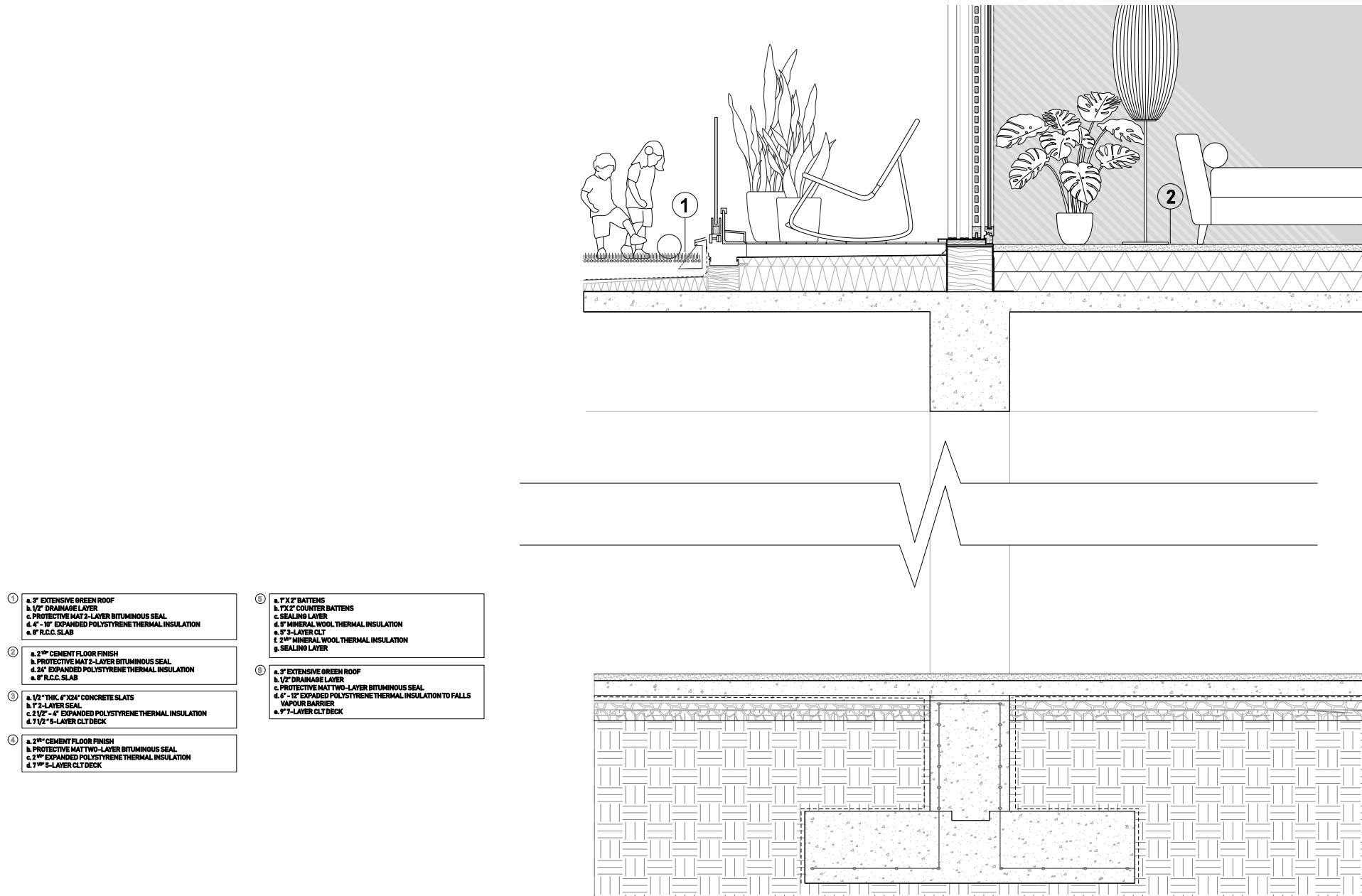
Our project revolves around promoting the use of wood to bring in the CLT industry to the region and introduce employment opportunity. Therefore, we have incorporated wood battens, CLT floor, and Glulam columns. In addition, the units are made with load bearing walls that allow for the push and pull of units from one floor to another.

THE HILL

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Lovejeet Gehlot

Lars + Christina

Facade Details and Environmental Systems Integration



Passive and Active Environmental Systems and Facades

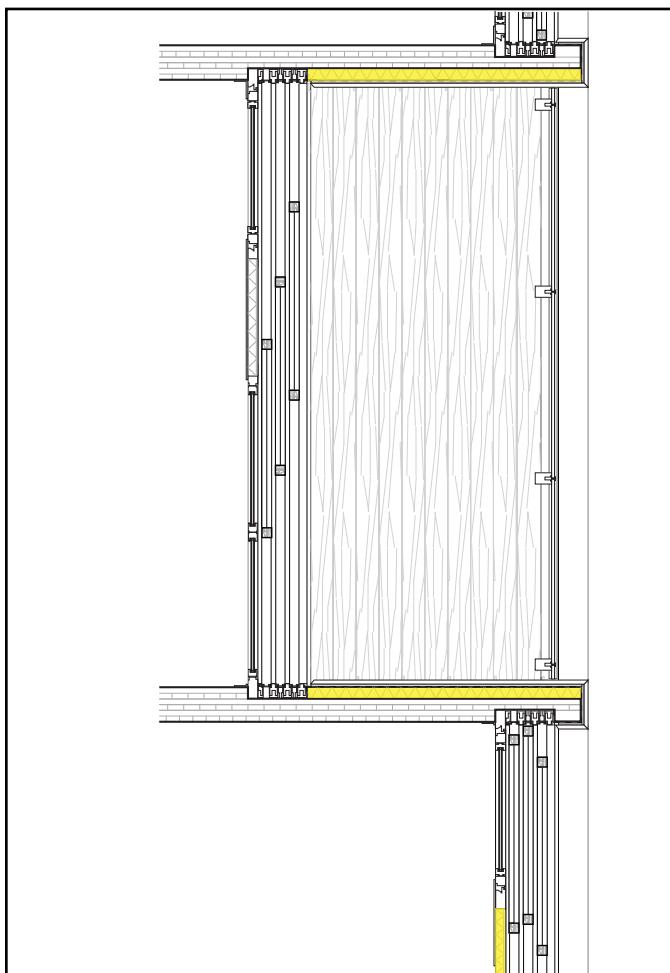
Shahryar Beyzavi + Tristan Snyder +
Lovejeet Gehlot

Lars + Christina

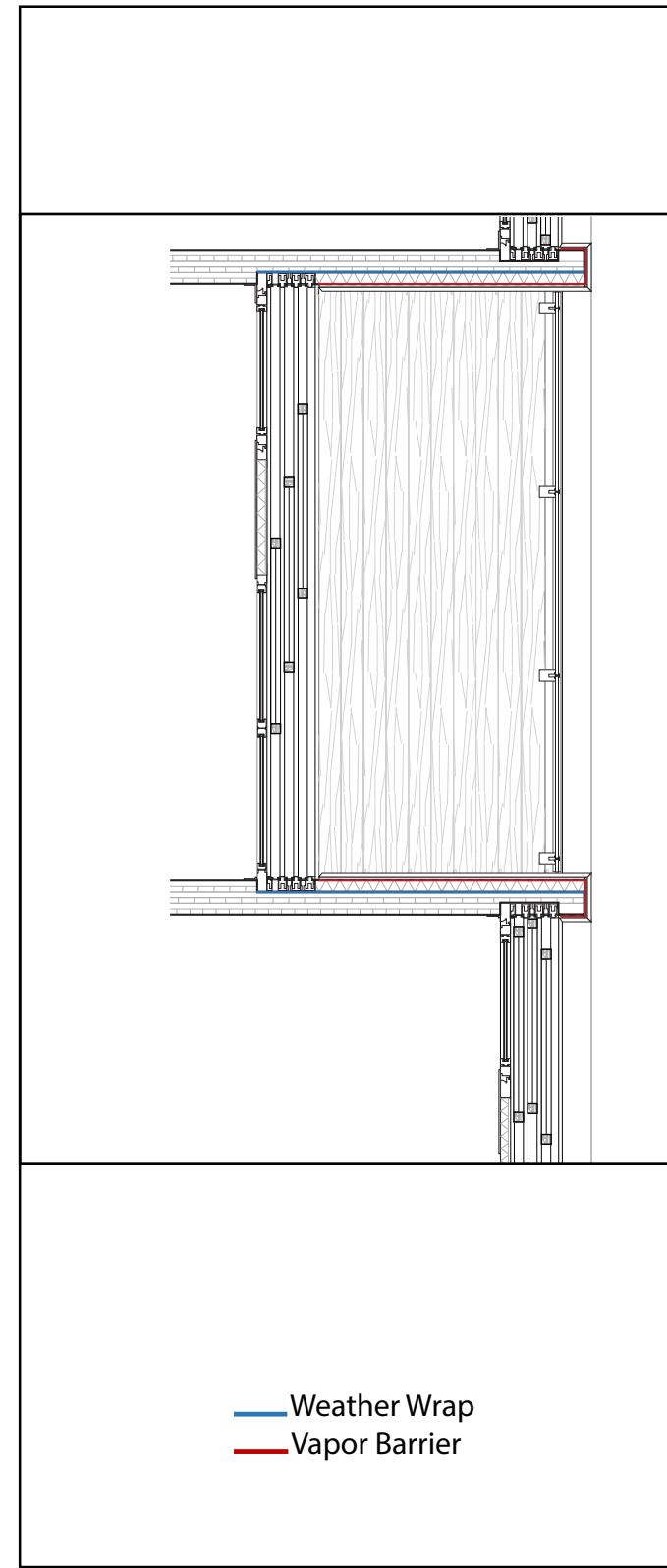
Facade Details and Environmental Systems Integration

Insulation

U-value Roof (R-Value) 0.18
 U-Value Wall (R-Value) 0.22 W/m²K
 (ft²/F/kBTU/h)
 U-Value Floor (R-Value) 0.3 W/m²K
 (ft²/F/kBTU/h)



Insulation Layer



— Weather Wrap
 — Vapor Barrier

Component	Thickness	Conductivity	Resistance
SEALING LAYER	0.03125"	0	0
CLT	5"	5.20	26
WEATHER BARRIER	0.015	0.25	0.00375
MINERAL WOOL THERMAL INSULATION	2 1/2"	7.25	18.125
SEALING LAYER	0.03125"	0	0
Total R		44.12875	
U value		0.22 (btu/h)(ft ² F)	

Calculation U Value
 SI or IP units