

UNIVERSITY OF IDAHO COLLEGE OF NATURAL RESOURCES PITKIN NURSERY RESEARCH CENTER

Design Intentions: Create a space where someone can always be LEARNING about the RESEARCH happening around them by visually connecting all spaces of the facility and connect around a central gathering space. This provides a SERVICE to the user by INVOLVING them in the process.

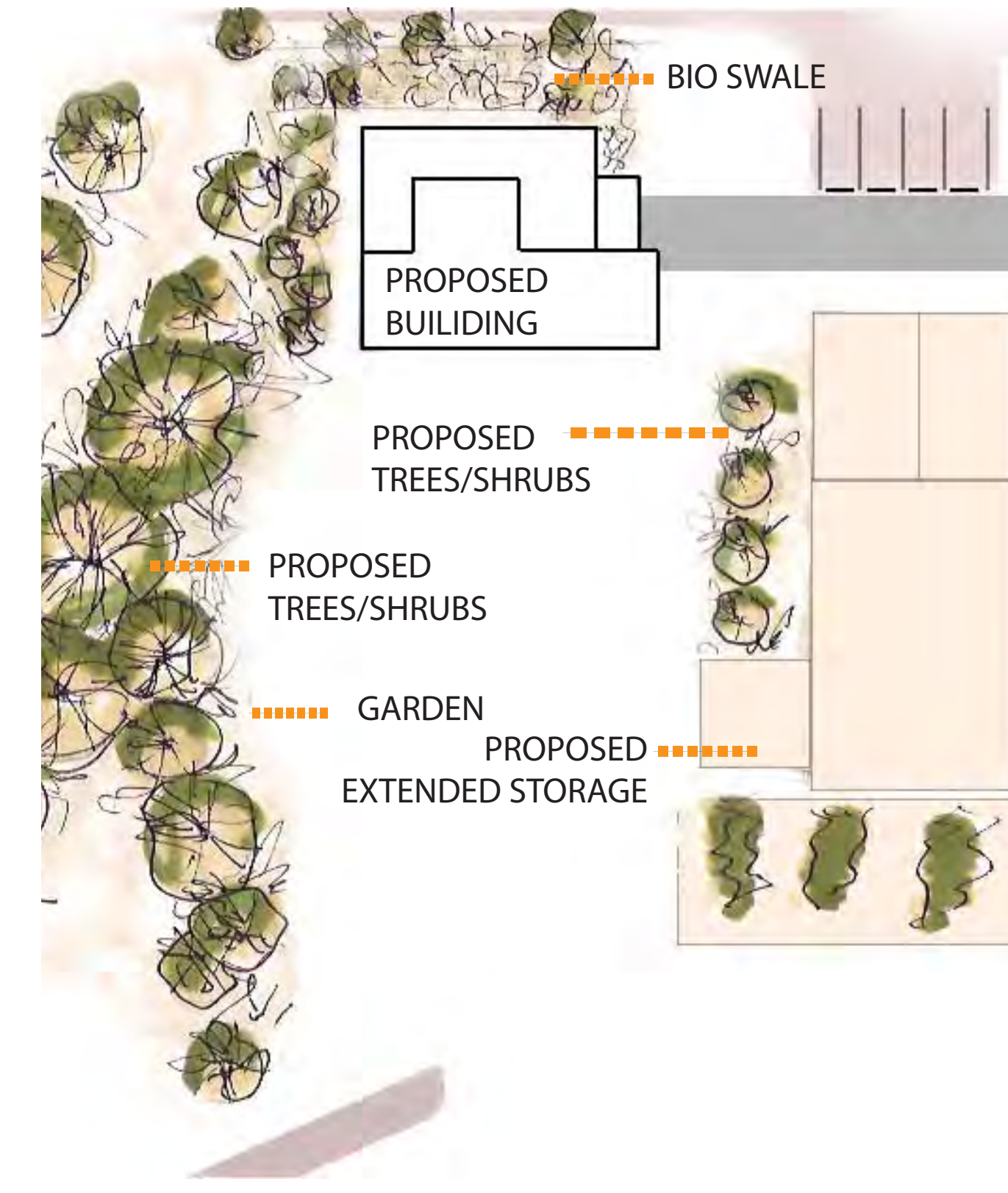
Design Strategies: regional materials used, exposed structure, capture/redirect water to bioswale, allow light to enter spaces, filter harsh light, enhance electrical light distribution with a reflective ceiling, visually and physically connect spaces with Nana Walls and centralized floorplan, and operable windows for heat exchange.



VIEW INTO CENTRAL FLEX SPACE



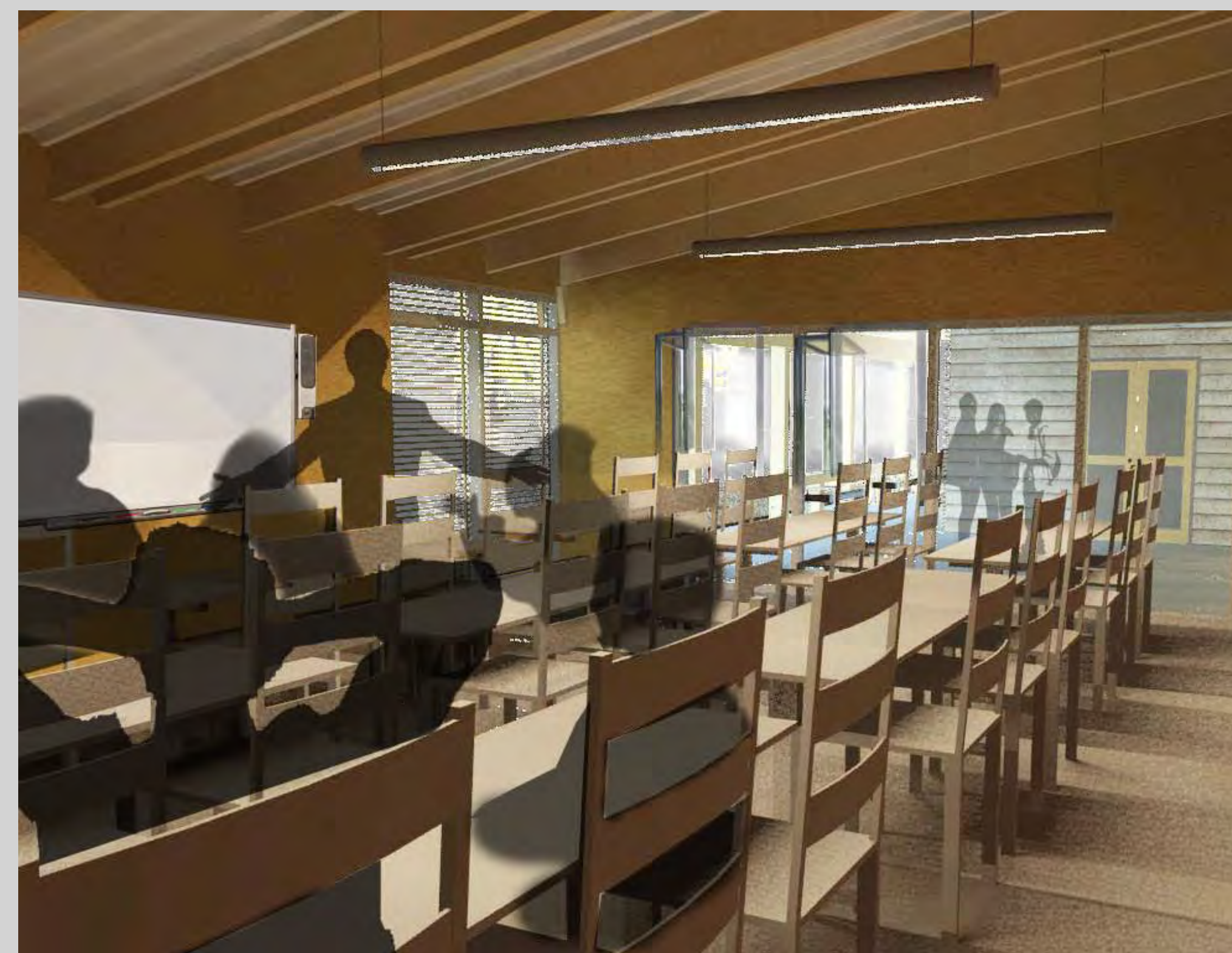
SOUTH ELEVATION 3/32"=1'0"



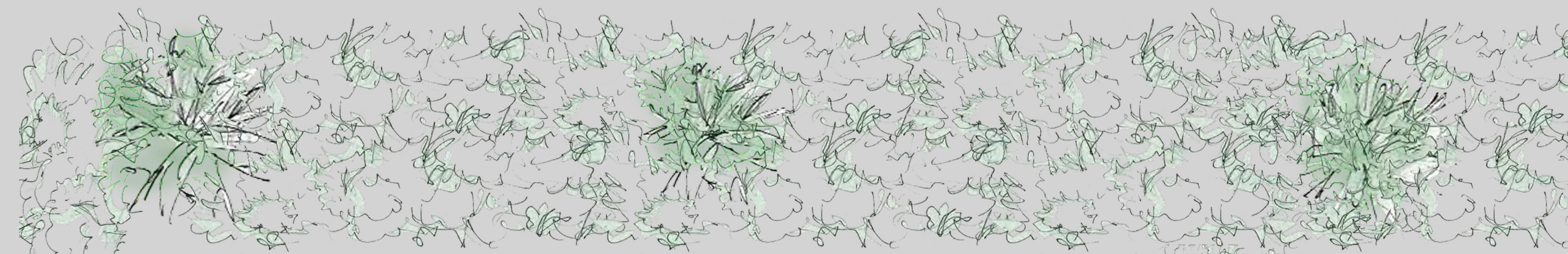
SITE PLAN 1/32"=1'0" N



ENTRY VIEW FROM NORTH EAST



VIEW FROM CLASSROOM TOWARD BACK PATIO



FLOOR PLAN 3/32"=1'0" N

PROGRAM

1	CLASSROOM	600 SF
2	SALES ROOM	230 SF
3	FLEX SPACE	600 SF
4	RESEARCH OFFICE	170 SF
5	OFFICE	137 SF
6	SEED ROOM	200 SF
7	2 RESTROOMS	80 SF EA
8	MECH ROOM	25 SF
9	OUTDOOR GATHERING	

MATERIALITY



Cross Laminated Timber Walls

- All interior walls are premanufactured CLT
- Wood can be grown in Idaho
- Manufactured in British Columbia

http://www.bcl-casa.kr/en/cross_laminated_timber_bbs.php



Brick Veneer Wall

- A Brick Veneer wall is located on the North side of the classroom to tie into the University and the objective of learning, which the research facility shares

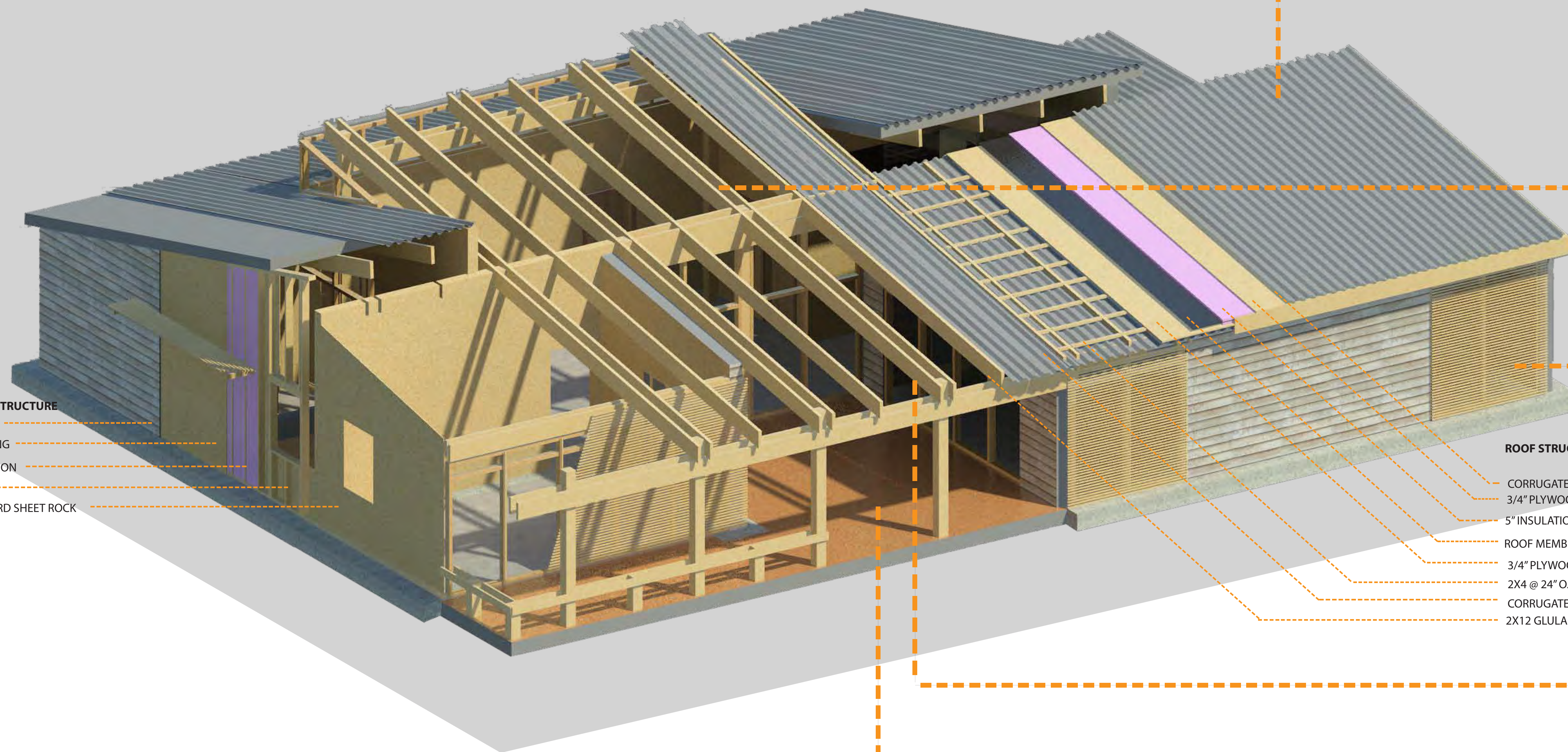
<http://darringraycorp.files.wordpress.com/2011/08/bricks.jpg>



Nana Wall

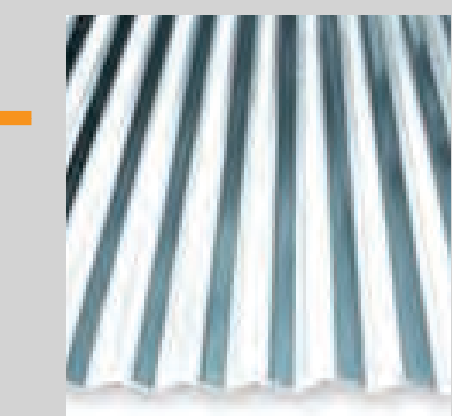
- Nana Walls Visually and Physically connect the spaces

http://www.gardenvisit.com/assets/madge/nanawall_folding_door/original/nanawall_folding_door_original.jpg

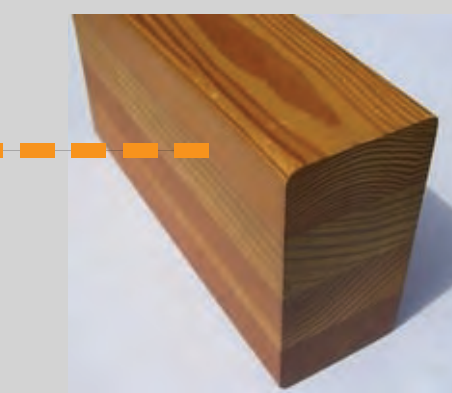


EXTERIOR WALL STRUCTURE
 WOOD LAP SIDING
 1/2" OSB SHEATHING
 R11 BATT INSULATION
 2X6 @ 16" O.C.
 1/2" GYPSUM BOARD SHEET ROCK

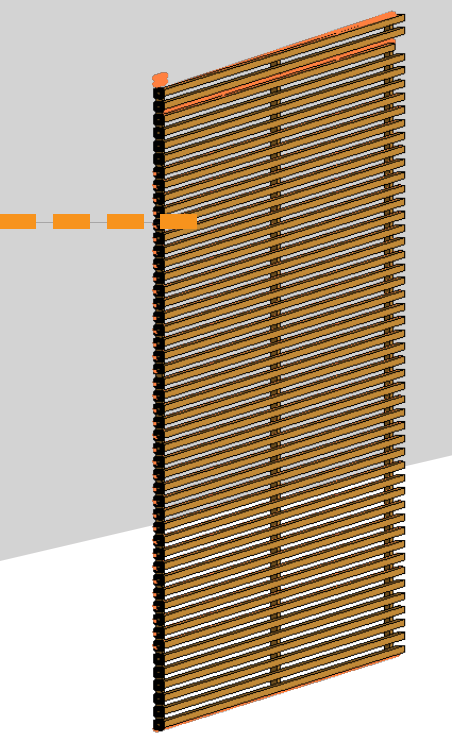
ROOF STRUCTURE
 CORRUGATED STEEL ROOF
 3/4" PLYWOOD COVER BOARD
 5" INSULATION
 ROOF MEMBRANE
 3/4" PLYWOOD COVER BOARD
 2X4 @ 24" O.C.
 CORRUGATED STEEL CEILING
 2X12 GLULAM RAFTERS



Corrugated Steel Roof and Ceiling
 -Corrugated steel helps support the overall idea of the research facility
 -helps reflect the electrical lighting around the rooms
http://100.lalimg.com/photo/v0/128368906/Galvanized_Corrugated_Metal_Roofing_Sheet.jpg_250x250.jpg



Glue-Laminated Structural Engineered beams and posts
 -Douglas Fir wood grown in Idaho
 -Manufactured in Grangeville, ID
 -Assembled in Boise ID
 3 1/2" x 12" rafters and beams
 8" x 8" columns
<http://www.panabodehomes.com/buildingproducts/>



1" x 1" Wood Screen
 -Cedar wood grown in Idaho
 -Manufactured in Grangeville, ID
 1" x 1" wood slats with 1" gap between
 -blocks harsh light
 -allowing views out
 -filtering views into spaces
<http://blog.lamidesign.com/2009/03/rain-screen-cladding-xhouse1.html>



Polished Concrete Flooring
 -Concrete floor acts as a thermal mass
 -Helps support the overall idea of a research facility
<http://www.chillwebsites.com/clientfiles/x19md/files/483/Image/Lot%2062%20Scored%20.JPG>



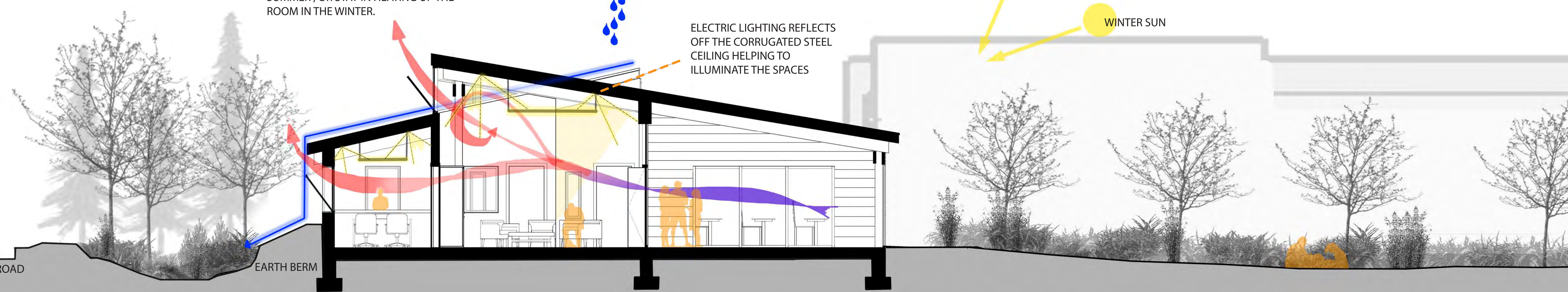
Cedar Decking
 -1x4 Cedar Decking
 -Grown in Idaho
 -Manufactured in Grangeville
<http://www.front-porch-ideas-and-more.com/images/western-red-cedar.jpg>

HEAT RISES AND CAN EITHER ESCAPE THROUGH THE CLERESTORIES IN THE SUMMER, OR STAY IN HEATING UP THE ROOM IN THE WINTER.

ELECTRIC LIGHTING REFLECTS OFF THE CORRUGATED STEEL CEILING HELPING TO ILLUMINATE THE SPACES

SUMMER SUN

WINTER SUN



PLANT SCIENCE ROAD

EARTH BERM

VEGETATED SWALE

N/S SECTION 1/4"=1'0"