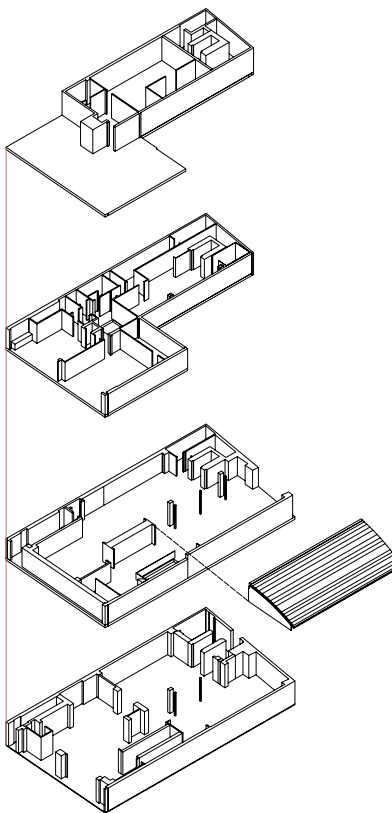
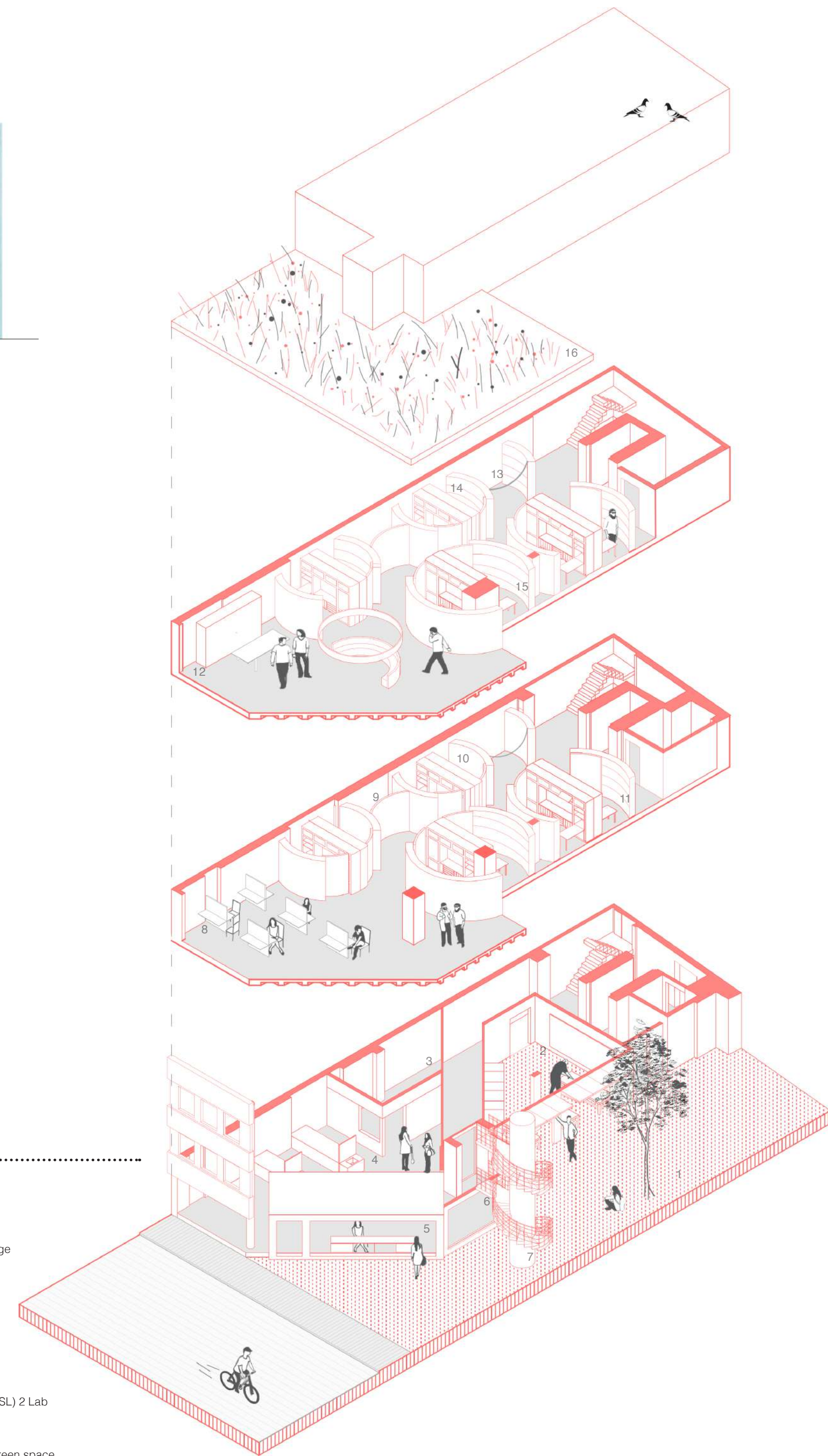


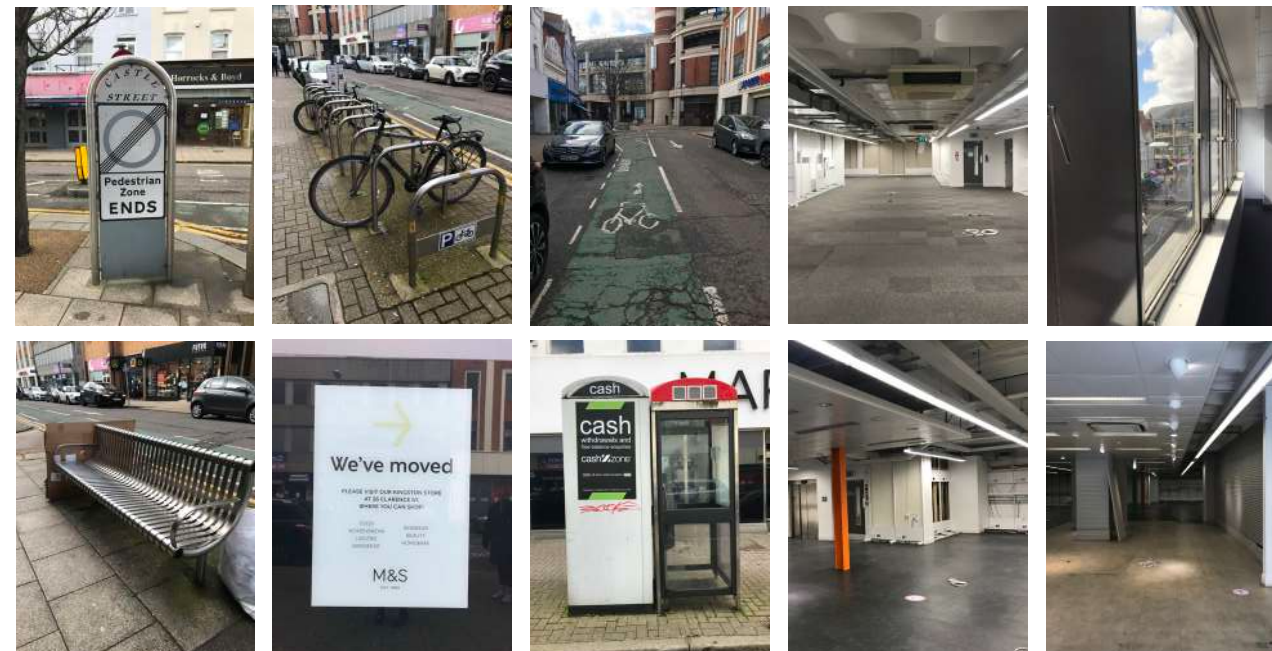
# Shared Biotech laboratories and Workshop for Sustainable Material Generation

In order to transition to a circular economy, sustainable material alternatives need to be integrated into our everyday. This design incorporates shared biolab and 3D workshop on the ground floor putting often hidden scientific research on display for use by the studio and short term renters on the floors above. The space is a melting pot for inquisitive individuals and groups from diverse backgrounds to collaborate and learn.



19-23 Fife Rd, Kingston upon Thames KT1 1SB. Adjacent to the pedestrian high street on a diverse street with high foot fall. 1970s concrete structure building with coffered ceiling with deep, dark plan only offering little natural light and ventilation from the front. Later addition of steel first floor plate and curved roof to create more floor space, part of old fashioned pre COVID-19 mentality where more = more stock = more money.

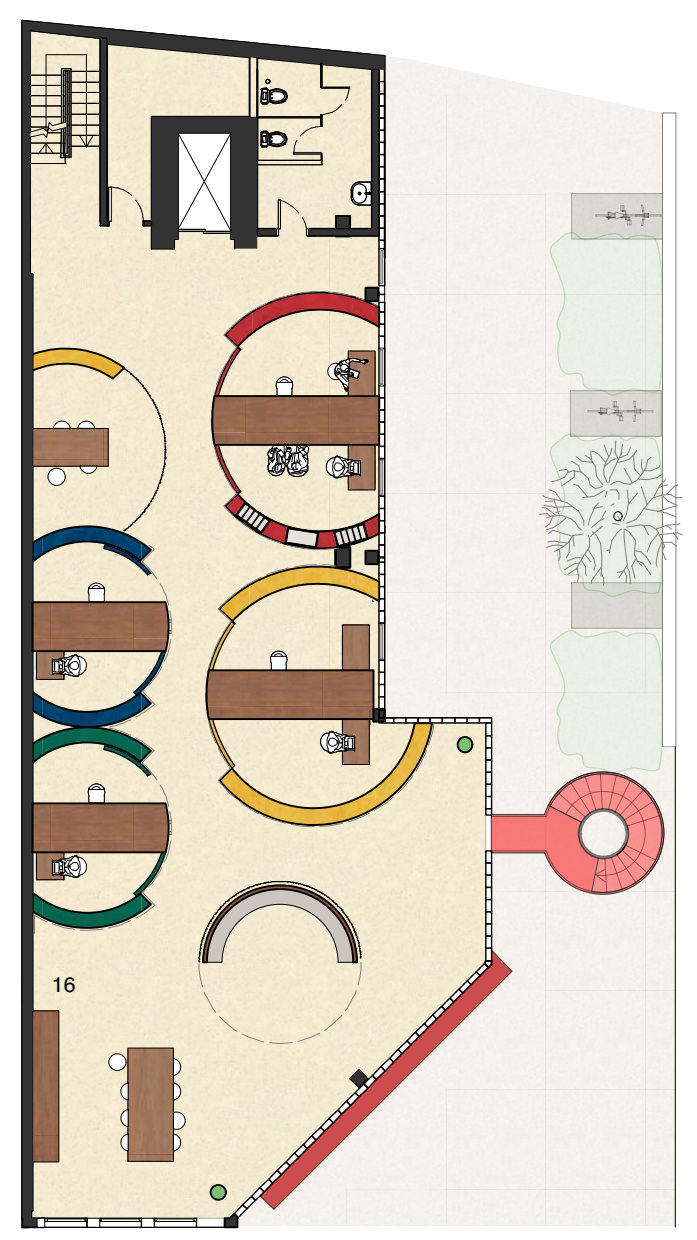
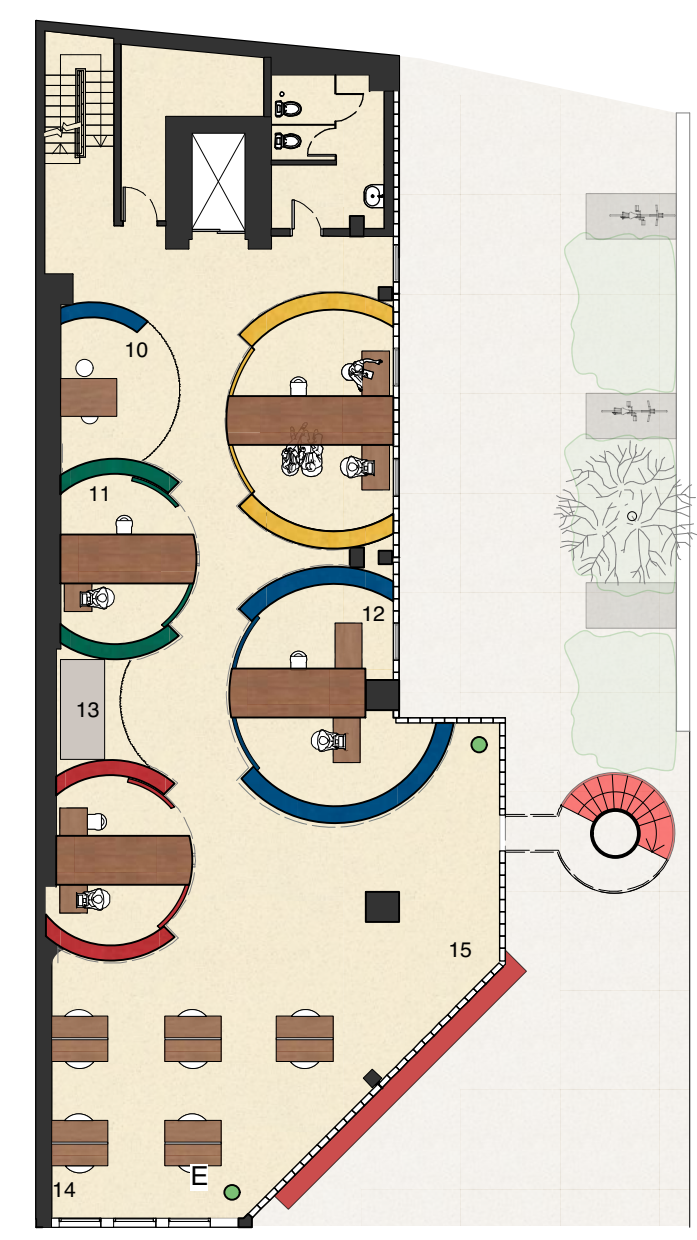
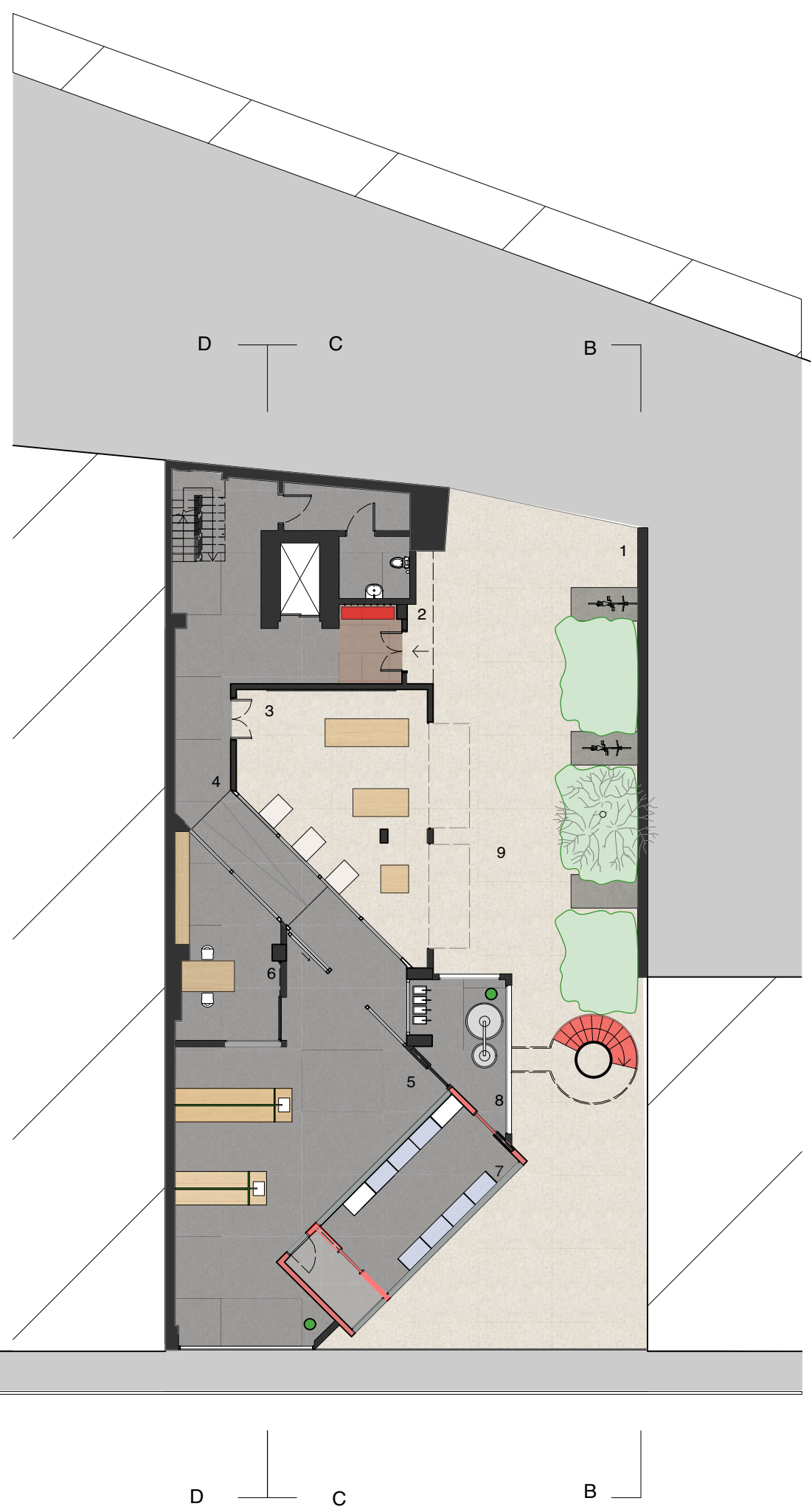
## EXISTING BUILDING



- 16. Wild flower sedum roof
- ROOF**
- 15. Four large studios
- 14. Four regular studios
- 13. Private meeting room
- 12. Communal space including lounge area, kitchen and dining table
- SECOND FLOOR**
- 11. Four large studios
- 10. Four regular studios
- 9. Kitchenette
- 8. Short term rent able work space
- FIRST FLOOR**
- 7. External spiral staircase
- 6. Plant room
- 5. Self contained Bio Safety Level (BSL) 2 Lab
- 4. Bio Safety Level (BSL) 1 Lab
- 3. Technician Laboratory
- 2. 3D Workshop Space
- 1. Public realm and courtyard and green space
- GROUND FLOOR**



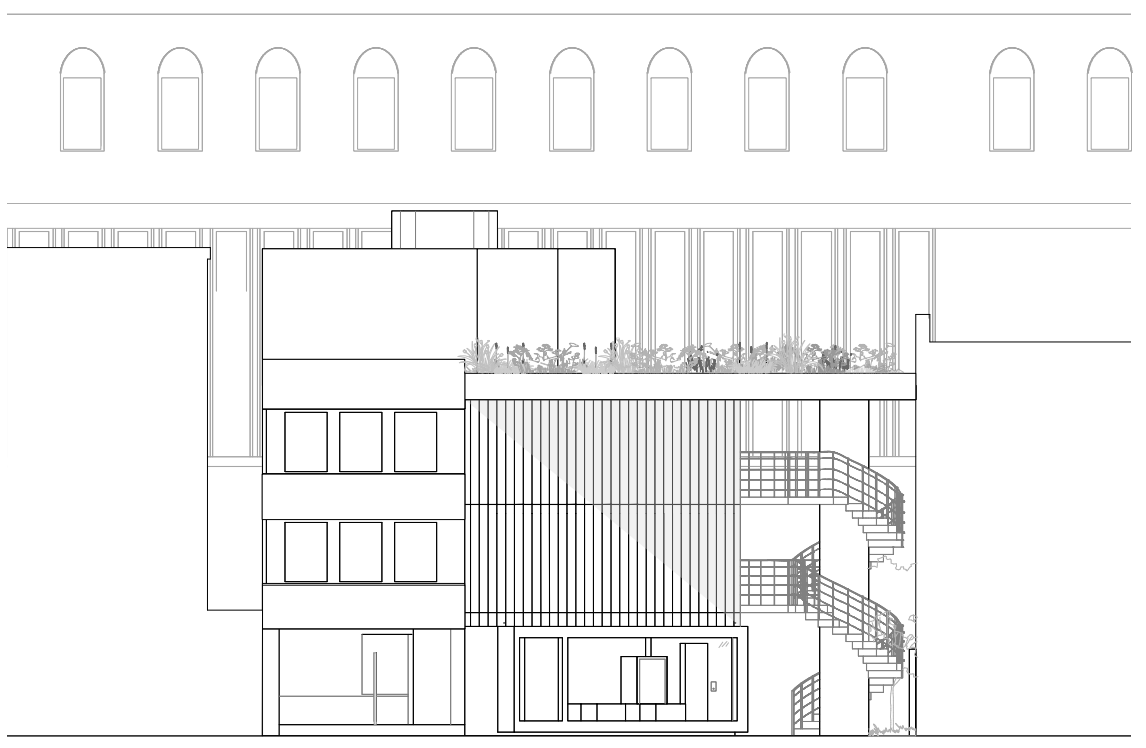
- Key
1. Courtyard and public realm
  2. Main entrance
  3. 3D workshop
  4. Central glass corridor
  5. Bio Safety Level 1 Laboratory
  6. Technicians laboratory
  7. Bio Safety Level 2 Laboratory
  8. Plant room
  9. Flooding garage style doors
  10. Private meeting room
  11. Small studio
  12. Large studio
  13. Kitchenette
  14. Short term workspace
  15. Partially obscure channel glass facade
  16. Studio common area with sofa, table and kitchen



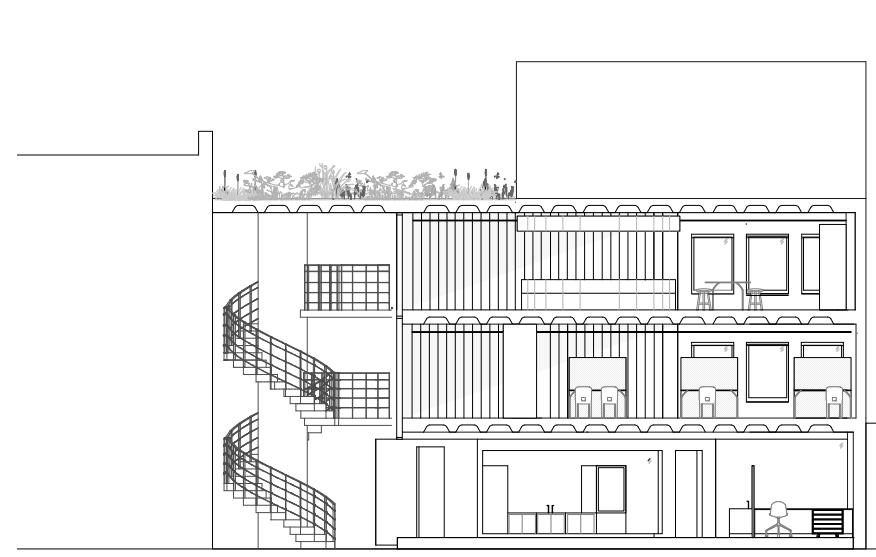
Rendered Plans  
Scale 1:200 @A2



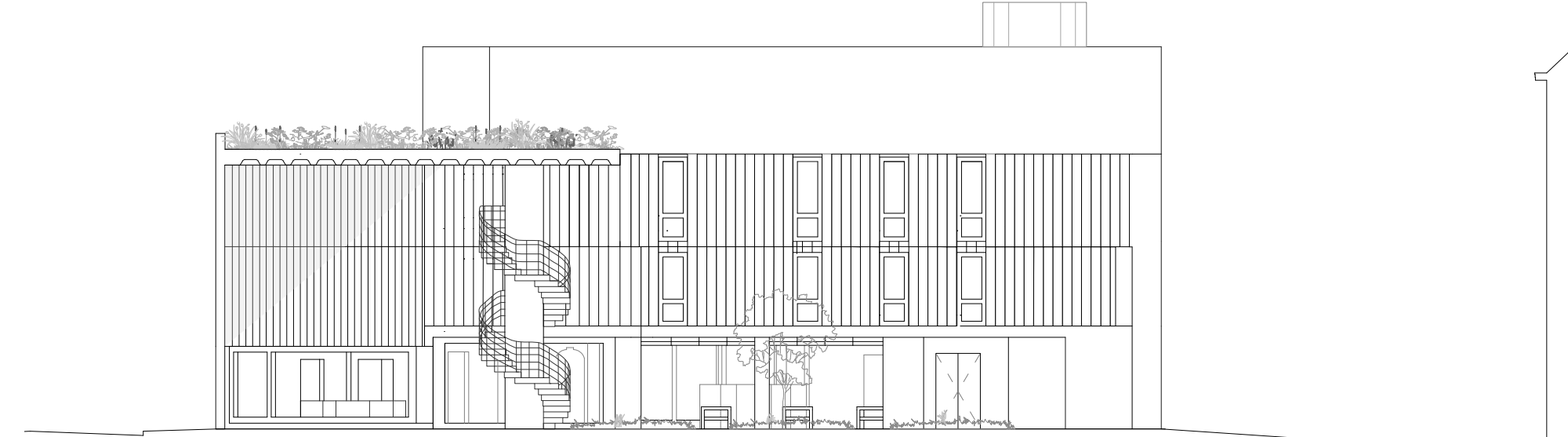
View from courtyard with 3D workshop garage doors, channel glass first and second floor facade, external staircase and plant room.



Front Elevation AA  
Scale 1:200 @A2



Section EE  
Scale 1:200 @A2

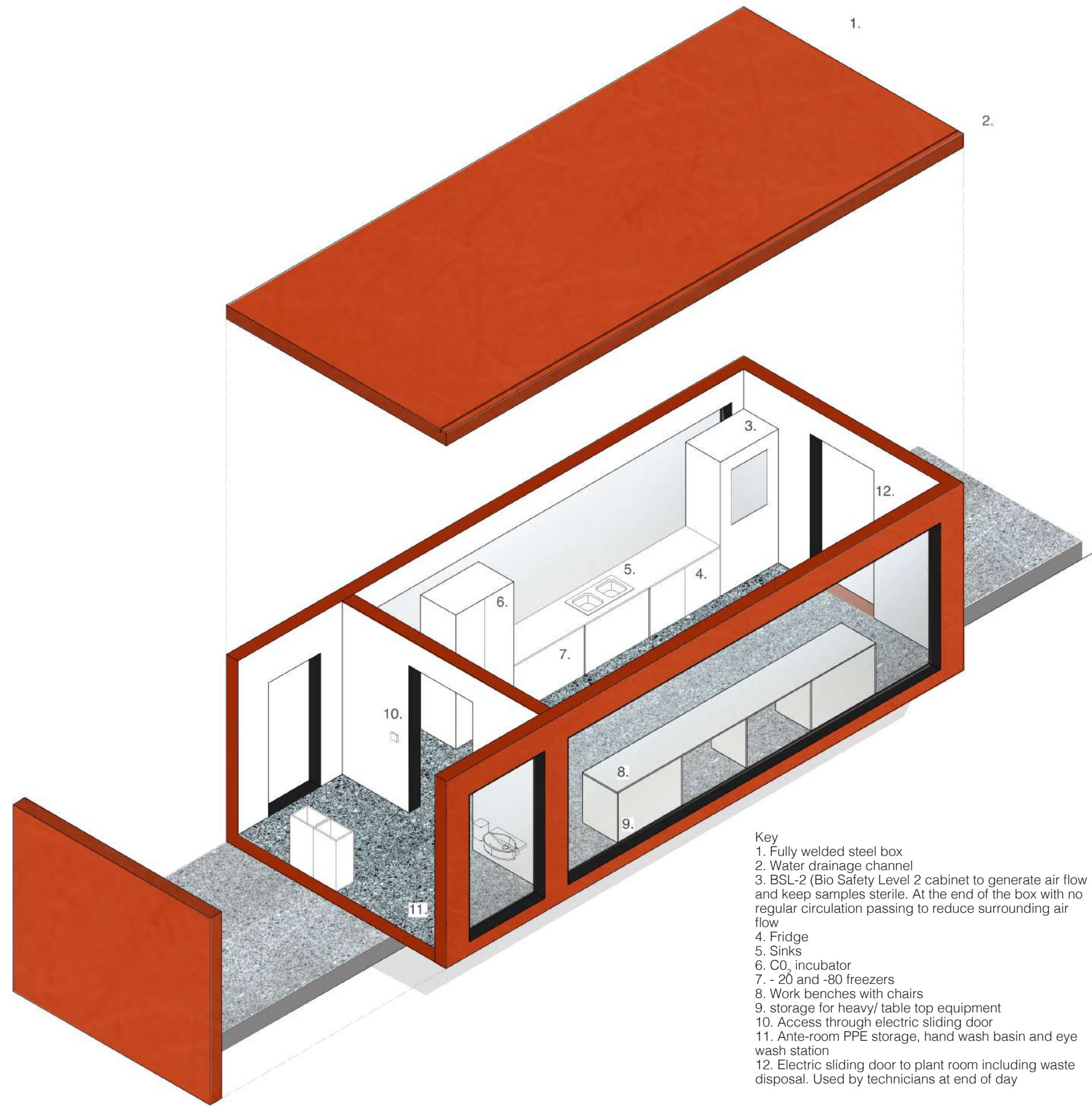


Side Elevation BB  
Scale 1:200 @A2

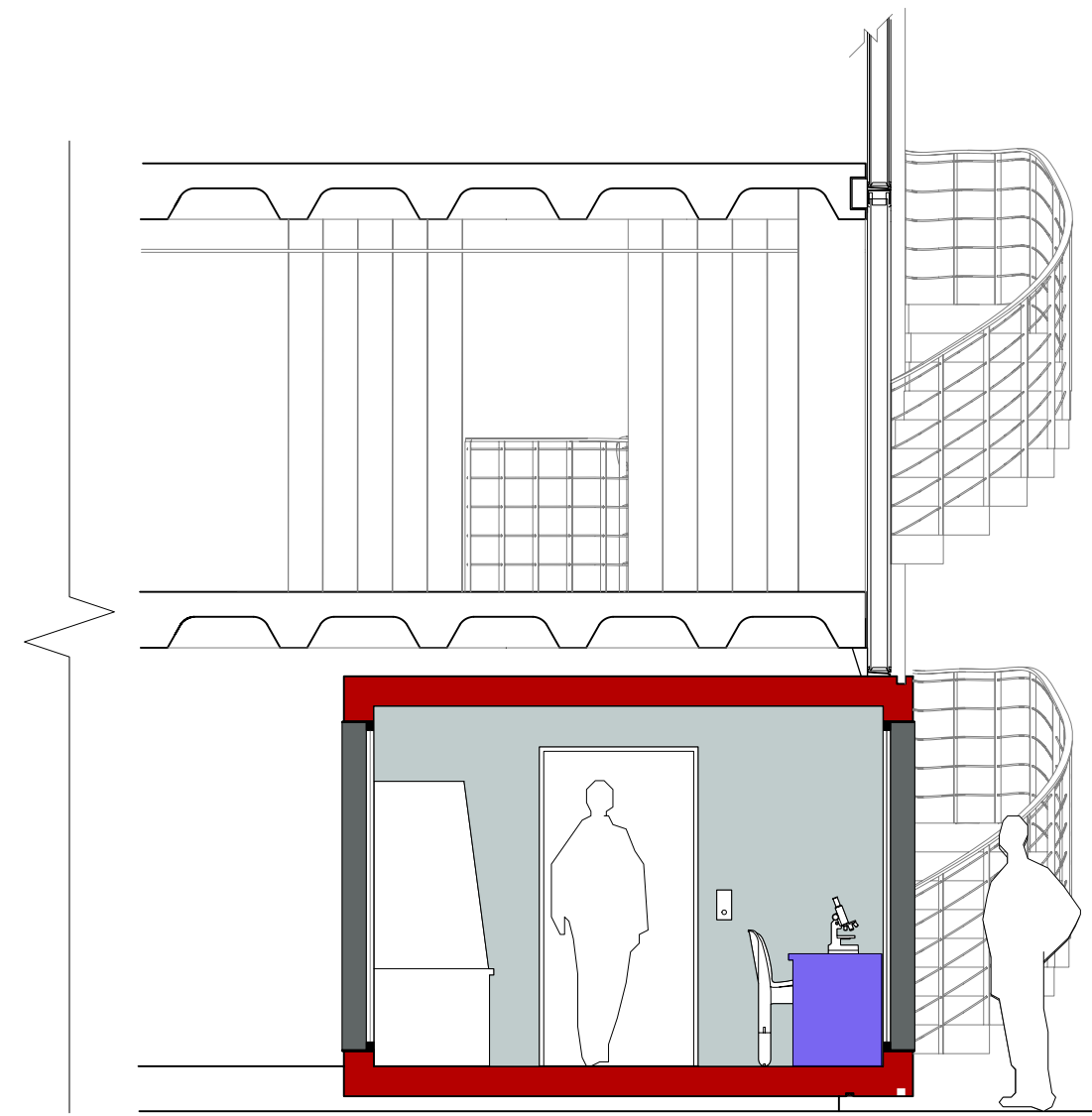
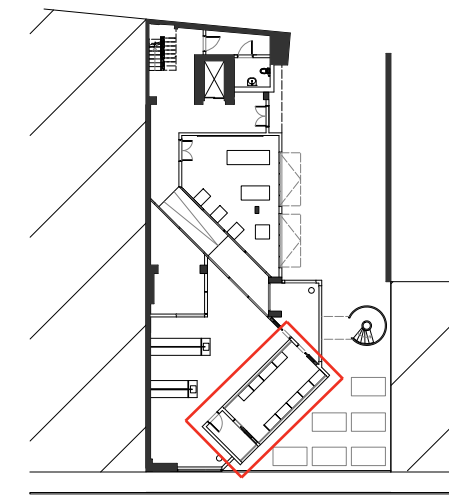


# Bio Safety Level 2 Laboratory Box

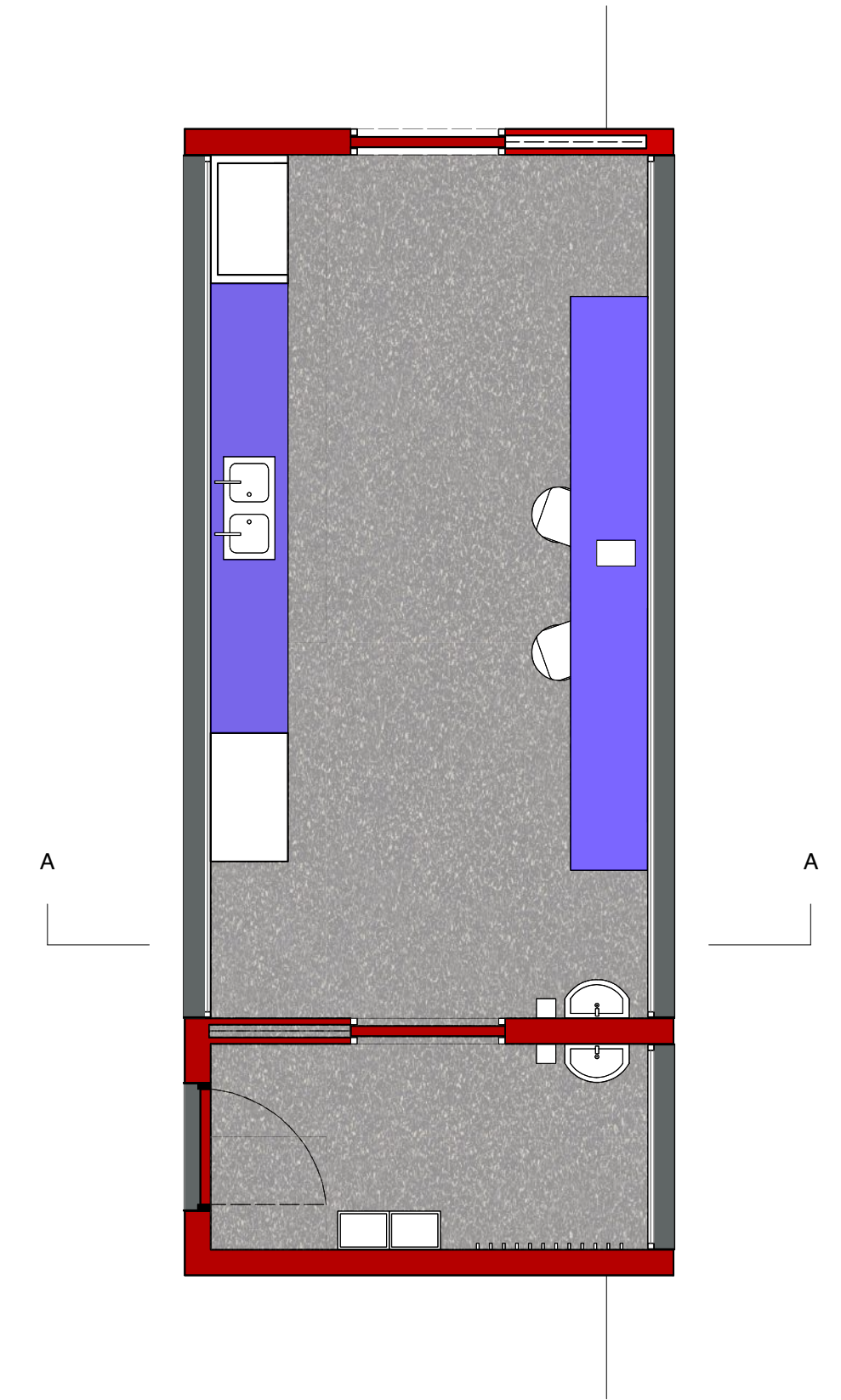
Movable self contained steel BSL-2 ban box protruding from new facade with large windows on both long sides. This puts the research on display like a shop window with thick frame, recessed glass and contrast window recess.



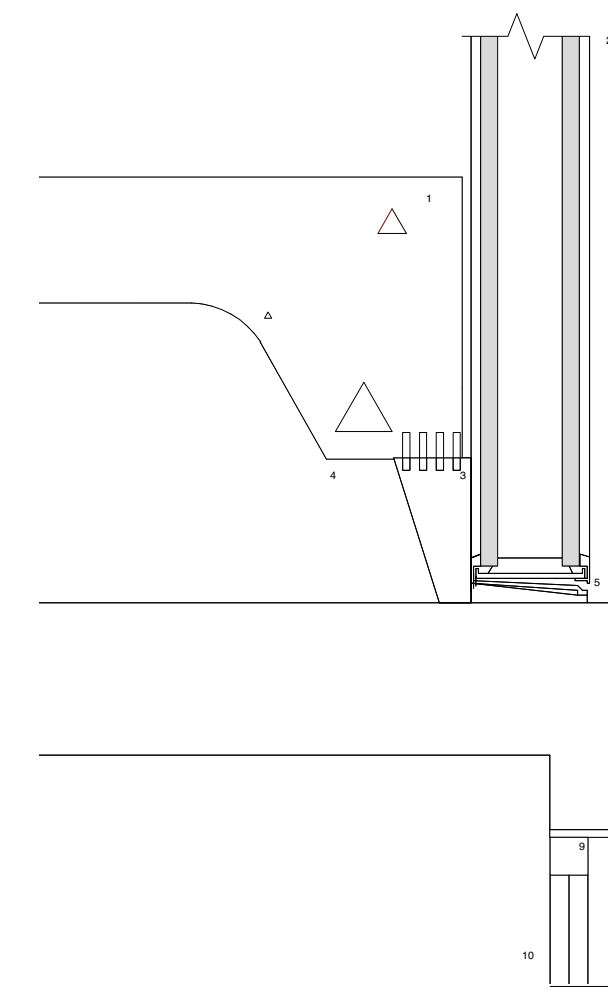
- Key
1. Fully welded steel box
  2. Water drainage channel
  3. BSL-2 (Bio Safety Level 2 cabinet to generate air flow and keep samples sterile. At the end of the box with no regular circulation passing to reduce surrounding air flow
  4. Fridge
  5. Sinks
  6. CO<sub>2</sub> incubator
  7. - 20 and -80 freezers
  8. Work benches with chairs
  9. storage for heavy/ table top equipment
  10. Access through electric sliding door
  11. Ante-room PPE storage, hand wash basin and eye wash station
  12. Electric sliding door to plant room including waste disposal. Used by technicians at end of day



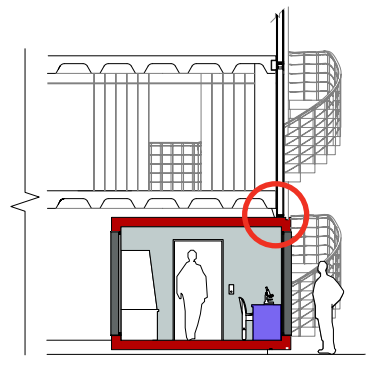
Section AA  
Scale 1:50 @A2



Rendered Section CC  
Not to Scale



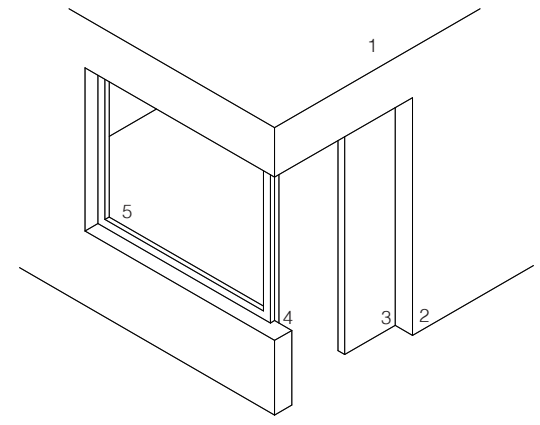
- Key
1. Existing coffered ceiling concrete first floor plate
  2. Channel glass facade - translucent
  3. Steel fin preventing flex in channel glass over hang
  4. Gap allowing light between box and ceiling
  5. Rubber seal allowing box to be removed and taken to a new location.
  6. Red fully sealed steel BSL-2 laboratory
  7. Water channel
  8. Contrasting black exterior window reveal aiding shop window effect
  9. Window frame
  10. Internal BSL-2 laboratory
  11. External public realm



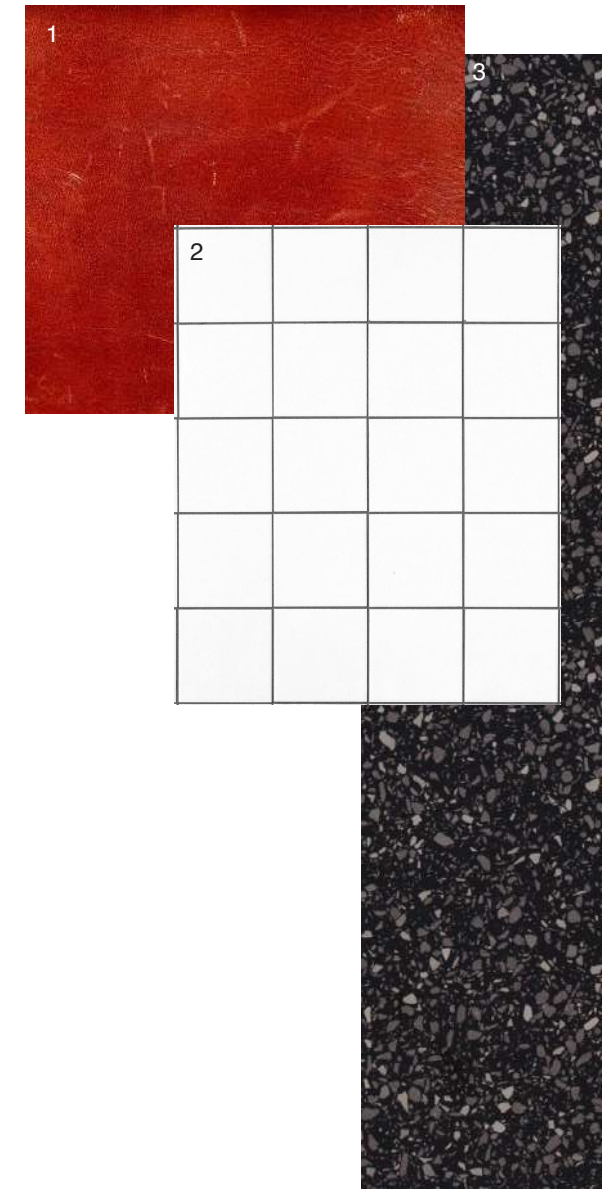
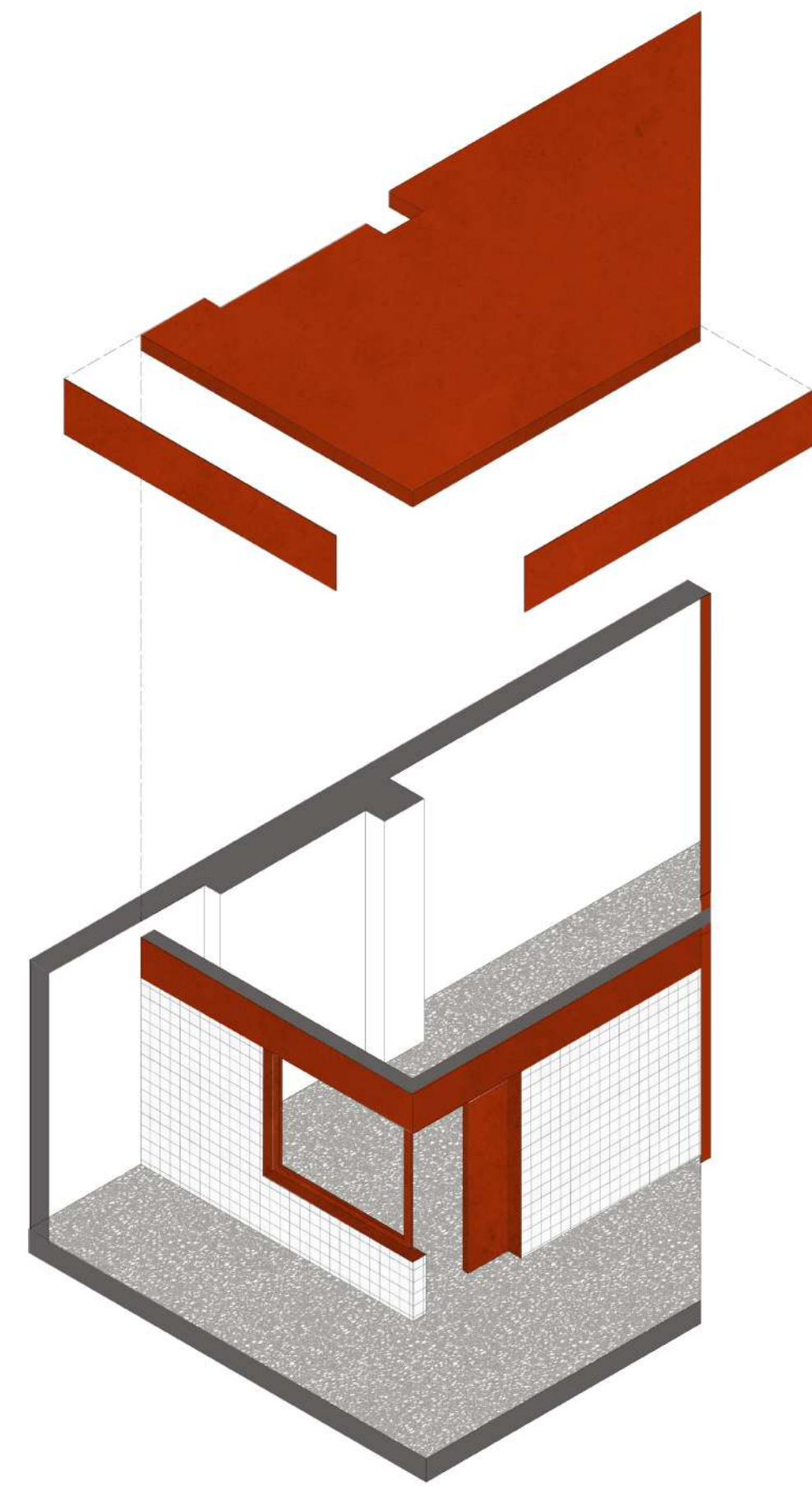


# Technicians Laboratory

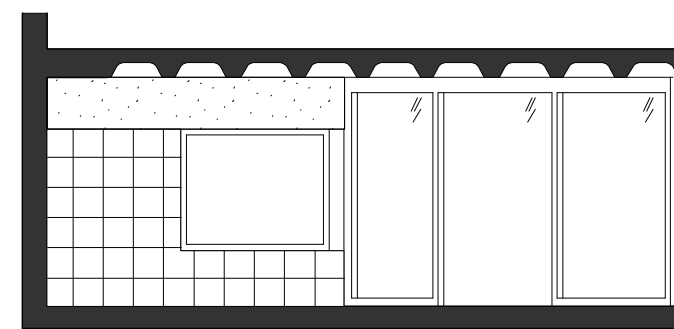
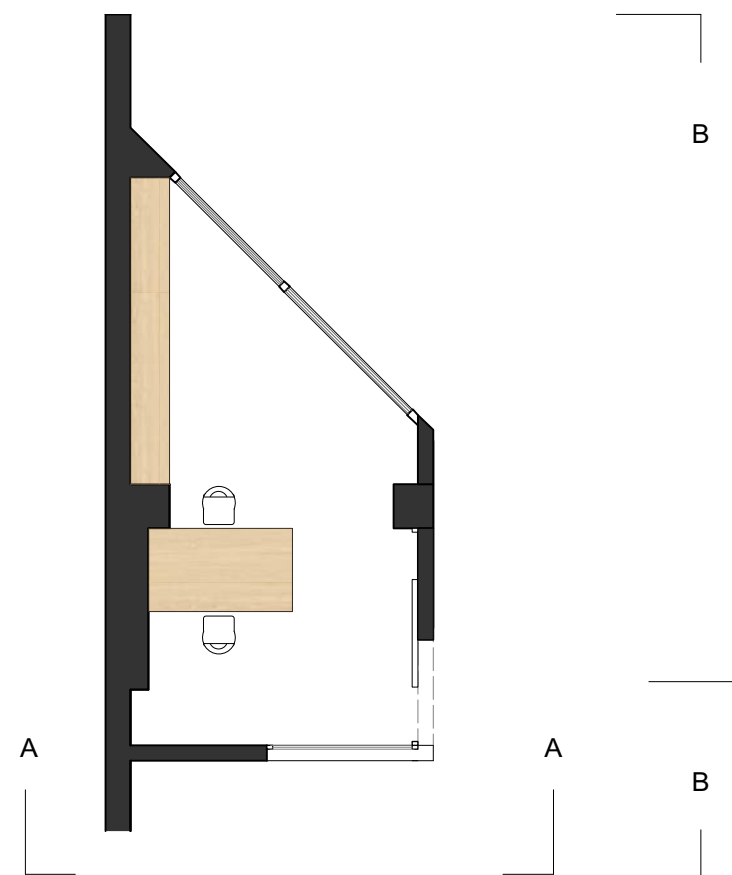
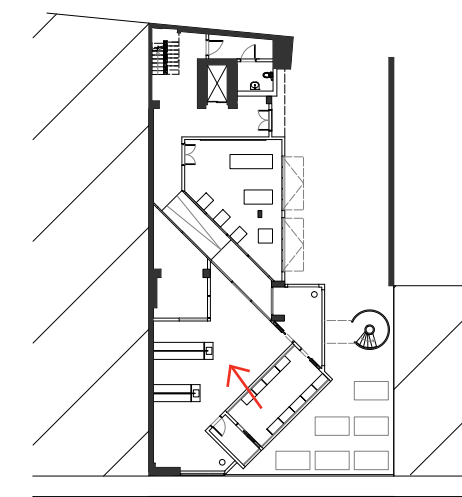
Big enough for 2/3 technicians to work full time to support and guide lab and workshop users. Large window and glass corridor allow technicians to see into both spaces. Recessed corner window / sliding door junction with over hang and windowsill.



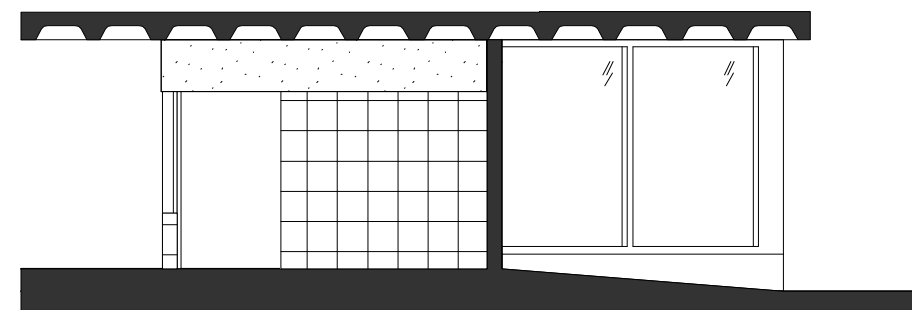
- Key
- 1. Red powder coated steel 'lid' roof
  - 2. Square tiles walls
  - 3. Internal sliding door
  - 4. Door frame
  - 5. Recessed window frame



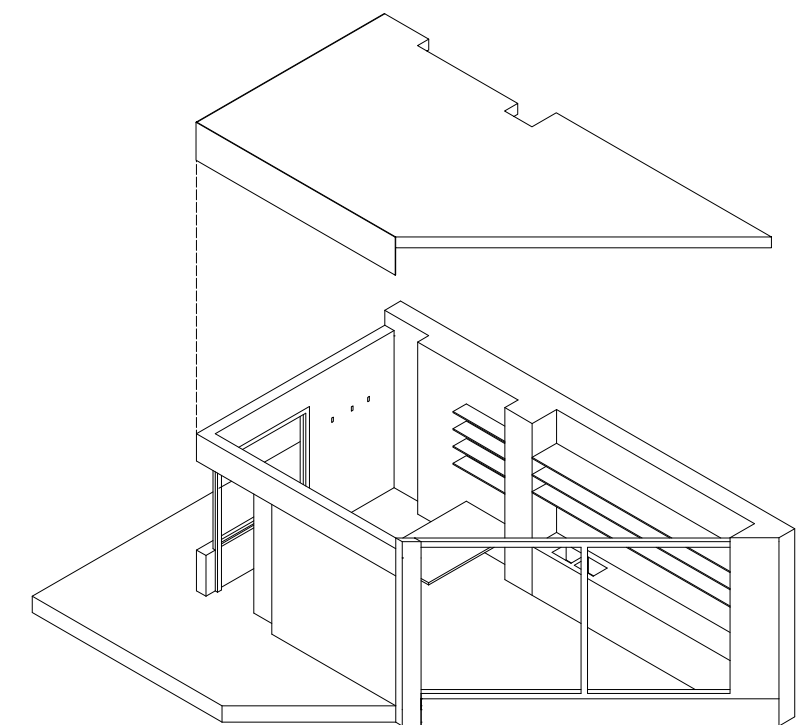
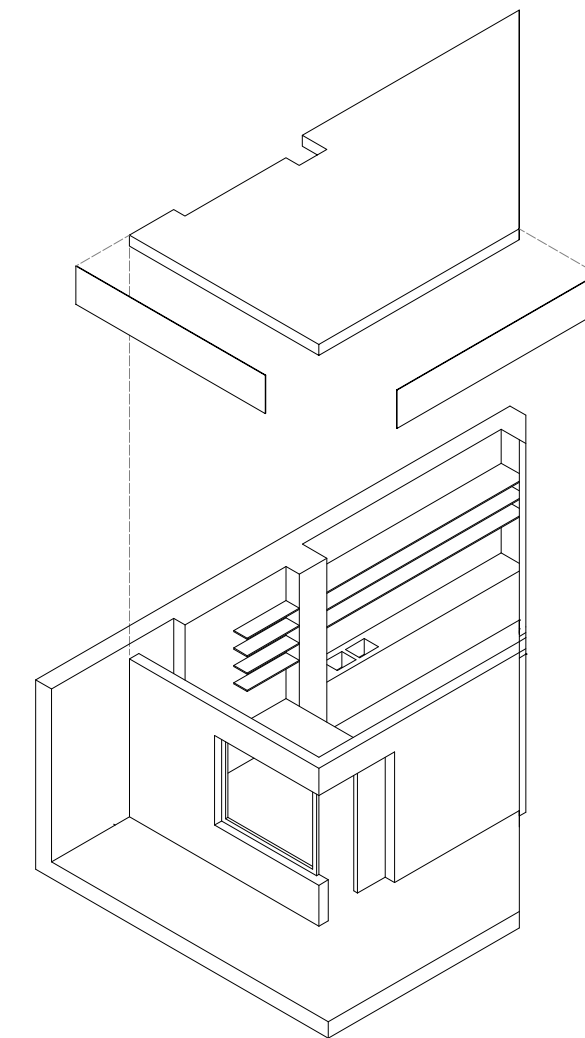
- Key
- 1. Red powder coated steel
  - 2. Square white ceramic tile
  - 3. Black recycled plastic terrazzo linoleum



Section AA



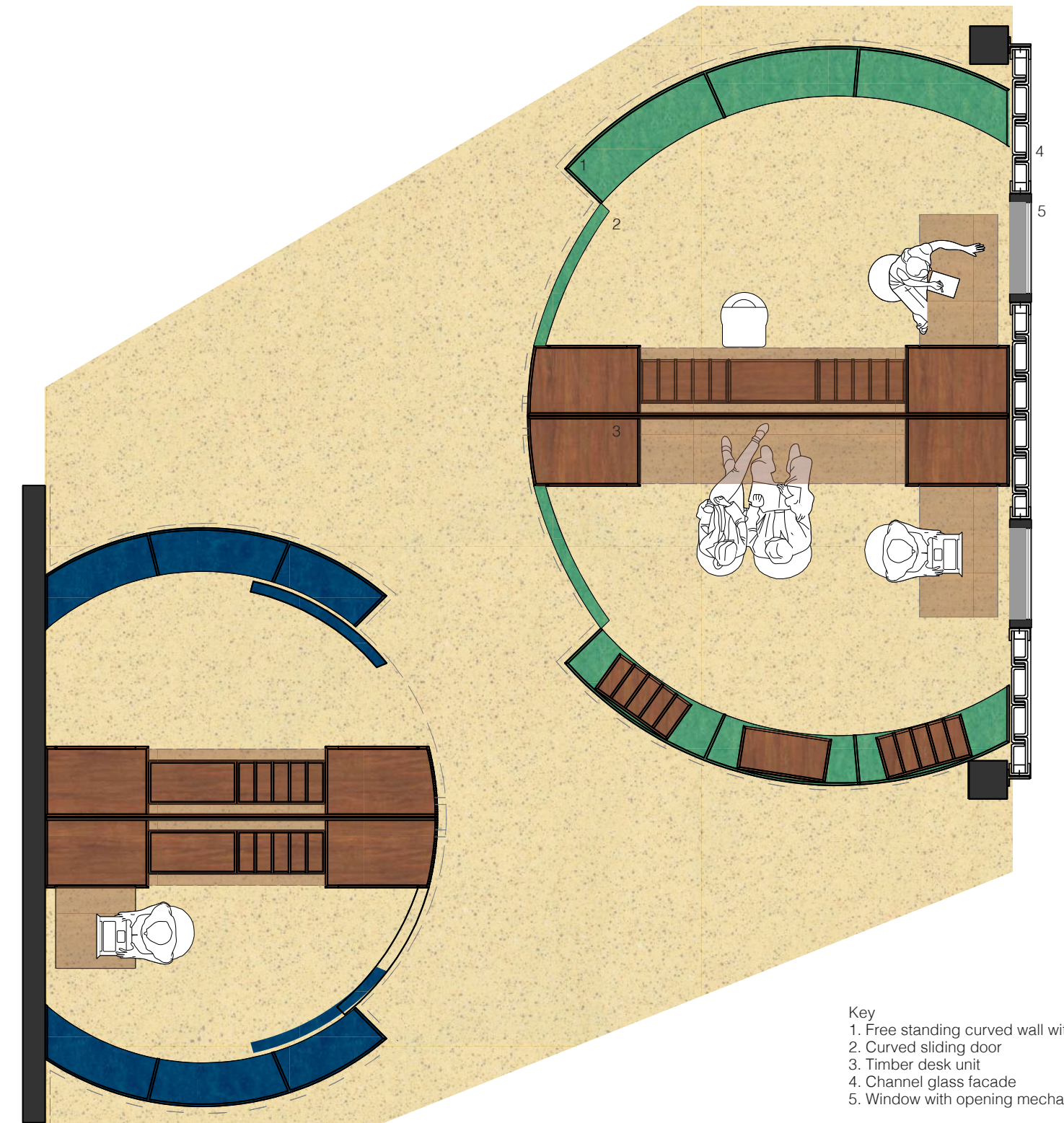
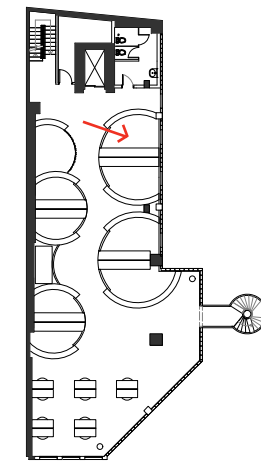
Section BB



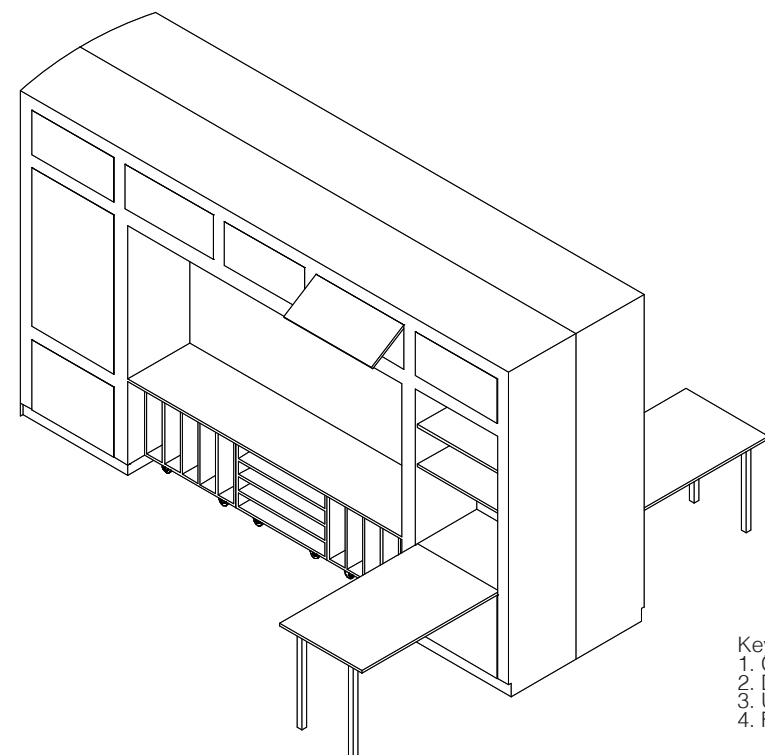


# Studios

Eight larger and eight smaller studios are spread across the first and second floors. 3 people can comfortably work in a large studio and 1/2 in a small studio. Both sizes are crated with a Parblex Plastic curved shelving wall and a timber work unit. The unit includes fold down desk and dresser space with either two or three shelves on castors which can be stored in the curved wall so the space can be used as further work space for additional people.



- Key
1. Free standing curved wall with shelving
  2. Curved sliding door
  3. Timber desk unit
  4. Channel glass facade
  5. Window with opening mechanism



- Key
1. Cupboards
  2. Dresser / desk space
  3. Units on castors
  4. Fold out table

