ECOLE
NATIONALE
SUPERIEURE
D'ARCHITECTURE
DE
PARIS LA VILLETTE

CYCLE MASTER
COURS THEMATIQUE

SCULPTURE TECTONIQUE

Enseignants : Marc LEYRAL – Raphaël ARLOT

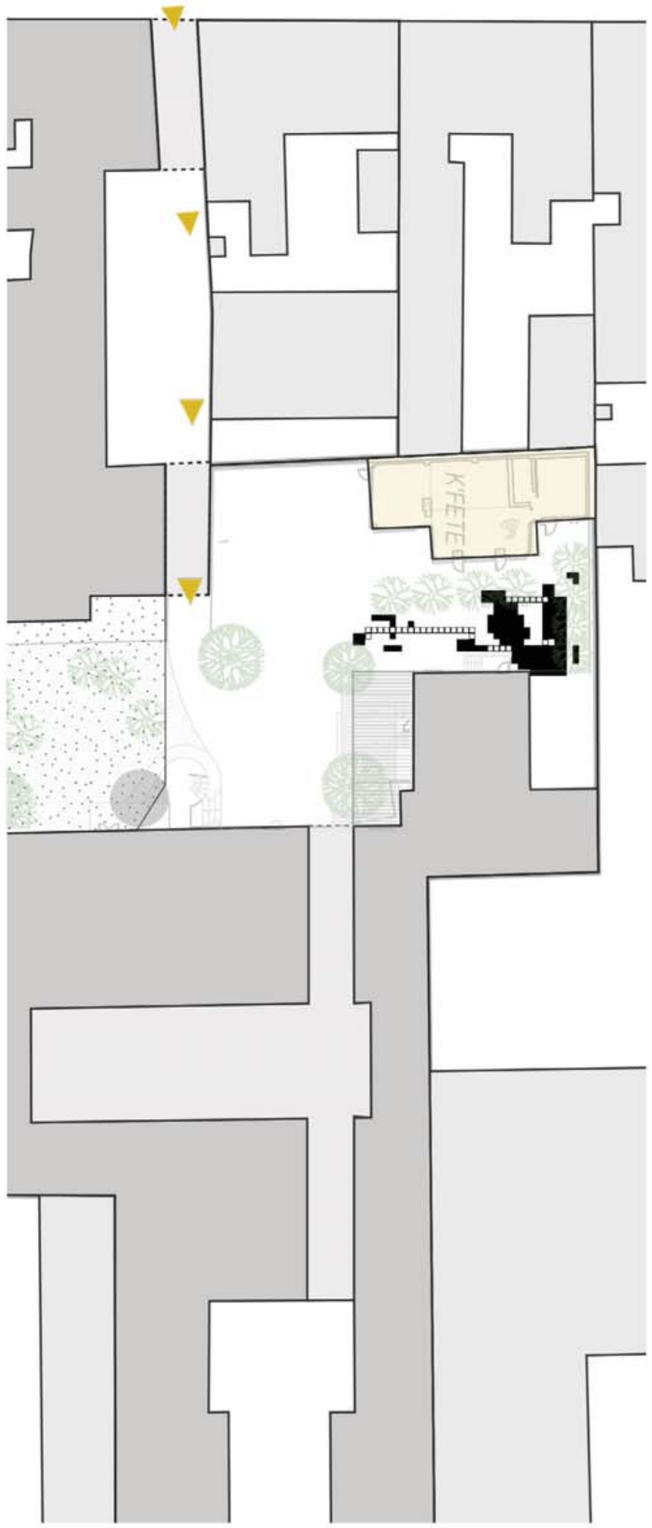
30-03-2016
PHASE AVANT-PROJET

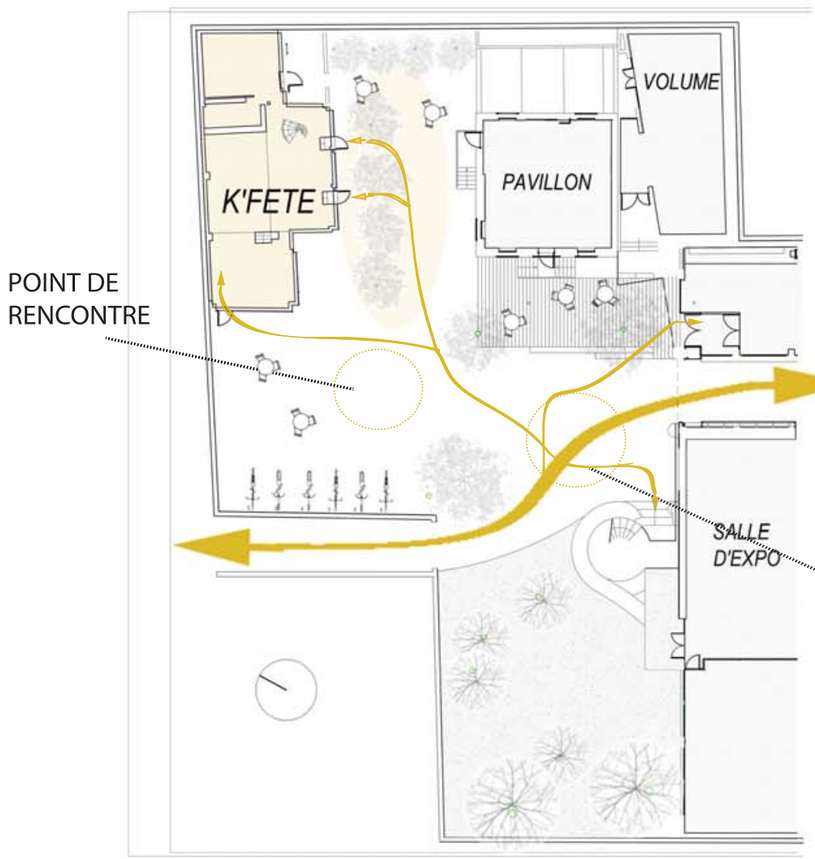
PROJETS SELECTIONNES :

- 1 – LA RIZIERE
  CAMILLE CASTERA ET AUDREY DUBIN
- 2 – O'PERCHE !
  ARNAUD PLANA ET ALEXIANE MURINO
- 3 – DUNE PAVILLON
  ORSO ANGELI ET MARTINA MORO
- 4 – LES TRIASSES
  CAMILLE GENOUD ET ALEXANDRE LEDURE
- 5 – ONDULATION
  ANNELOT WARTNA ET JOHN STENZEL

AUTRES PROJETS :

- 6 – LA PLATEFORME
  MARGARITA ZAKYNTHINOU-XANTHI ET PAVLINA GOUMENAKI
- 7 – CORDELA
  IOANNA MITROPOULOU ET AUGUSTIN AGO GALIMA
- 8 – L'AMPHITERRASSE
  ISIDORA MARIA RODANA ET BANGSEH AKUCHU
- 9 – NATURE 2.0
  ZIYING KUANG ET QUOC BAO TRAN
- 10 – LA FORET
  COEN VAN BERGEIJK ET JAMES ROSS PONTARELLI





Passage

Point de rencontre

Détente

Manger

Fumer

Etre ensemble

Discuter

S'asseoir

S'abriter

S'éclairer

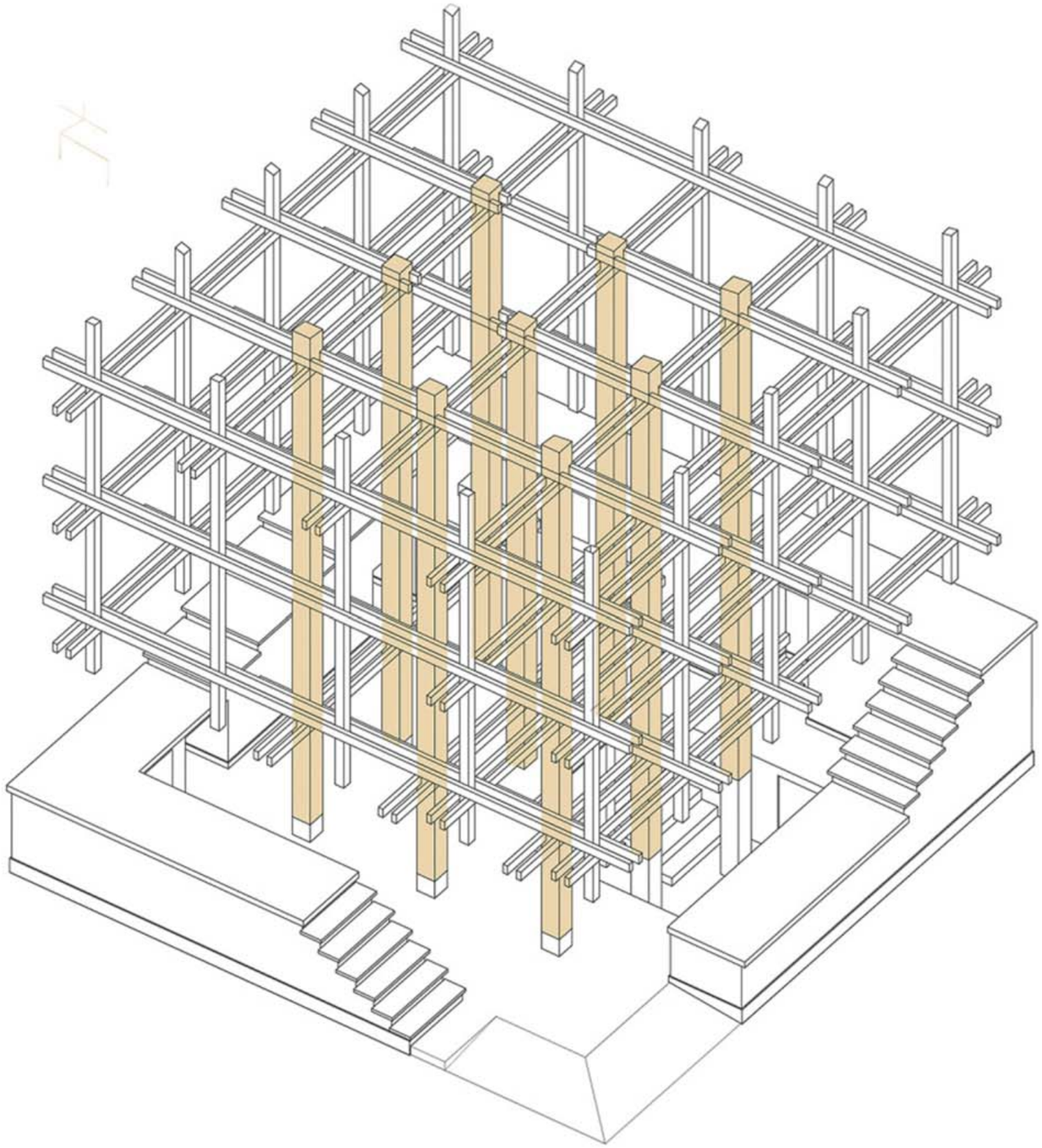


LA RIZIERE - Insertion dans le site

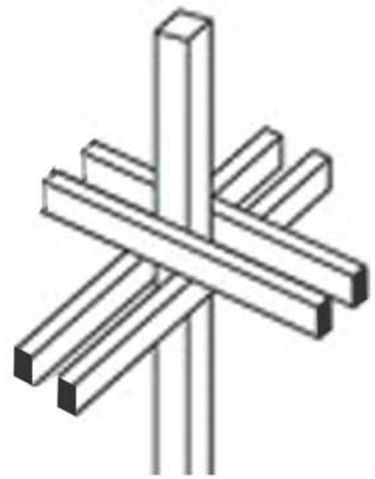
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL

31.03.2016 - **PHASE AVP**

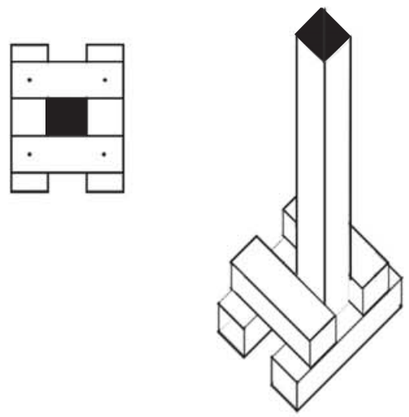
STRUCTURE



Structure : moises



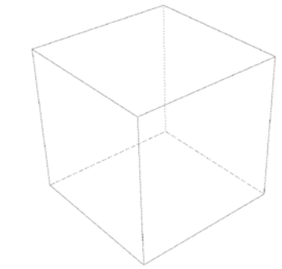
Rapport au sol :
Système de raquette

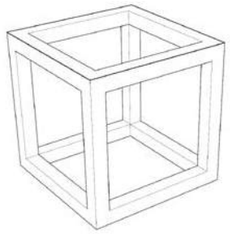


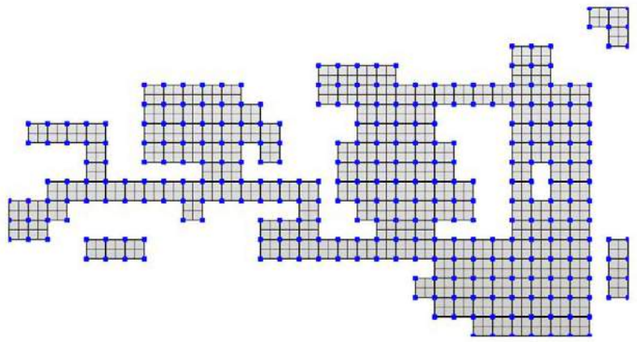
LA RIZIERE - Structure
CASTERA Camille - DUBIN Audrey
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R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

DE L’ESQUISSE A L’AVANT PROJET

PRINCIPE





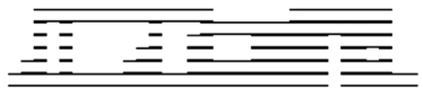


TASSEAUX EN X

DESSUS



FACE



DROITE



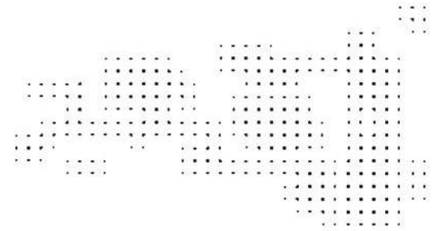
TASSEAUX EN Y

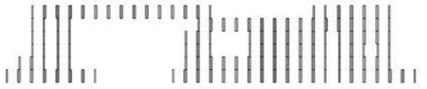




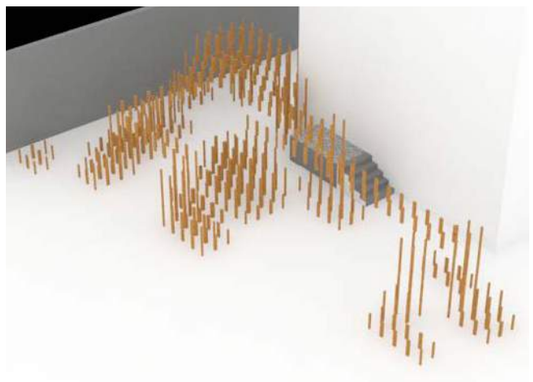


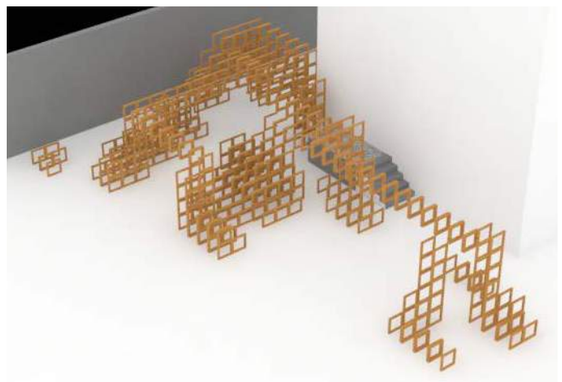
TASSEAUX EN Z

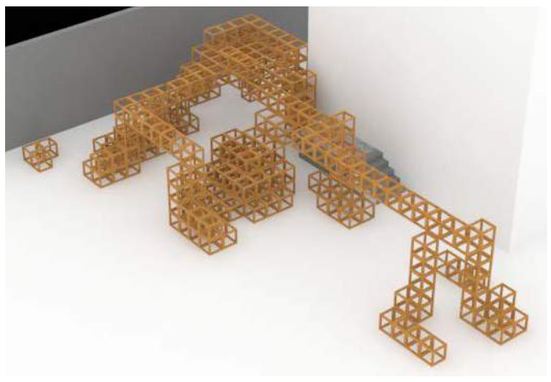


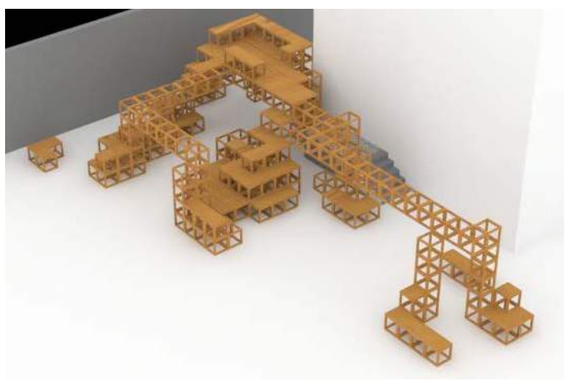












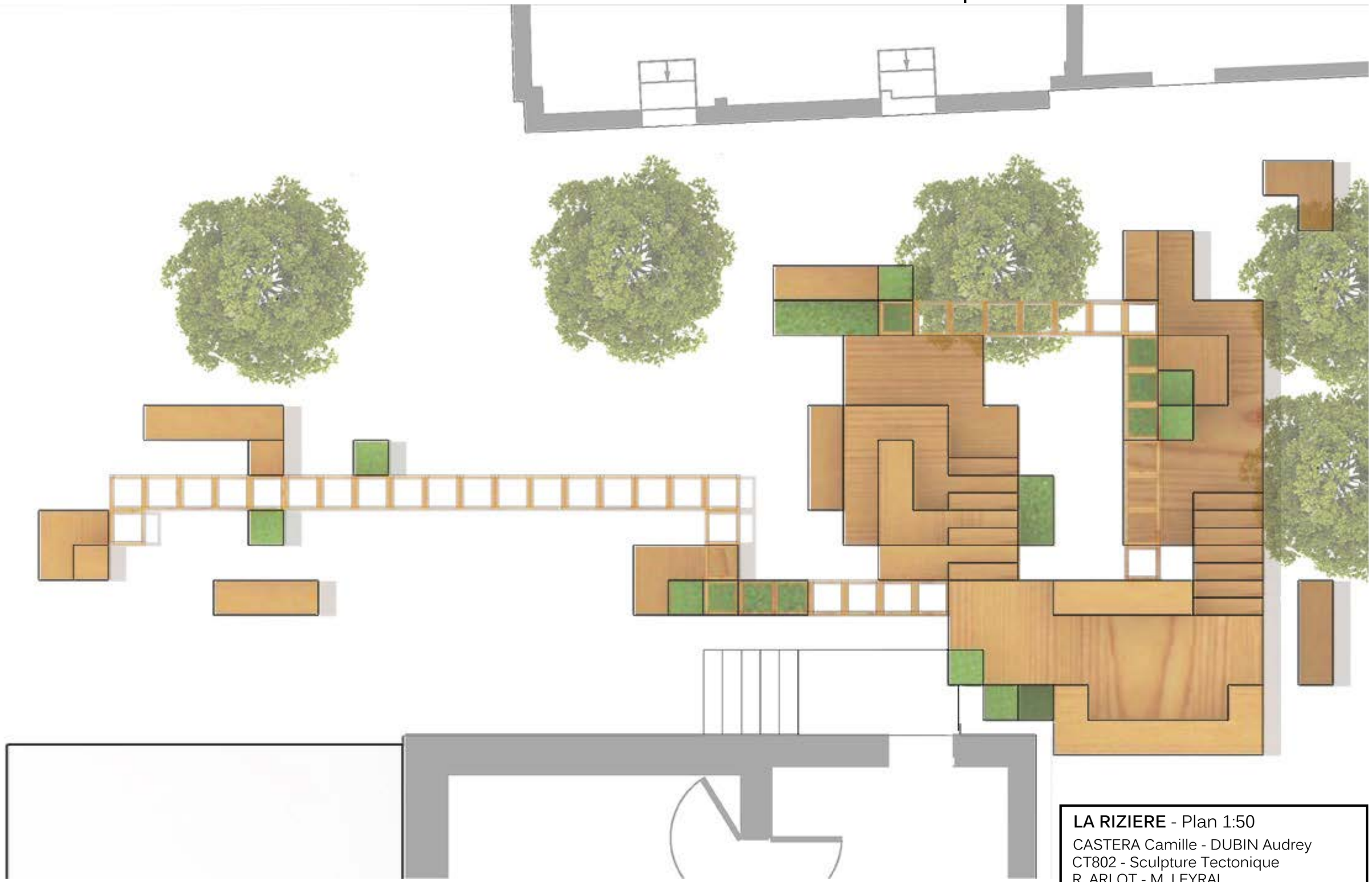
LA RIZIERE - De l’esquisse à l’AVP

CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL

31.03.2016 - **PHASE AVP**

PLAN 1/50

A



A’

LA RIZIERE - Plan 1:50

CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL

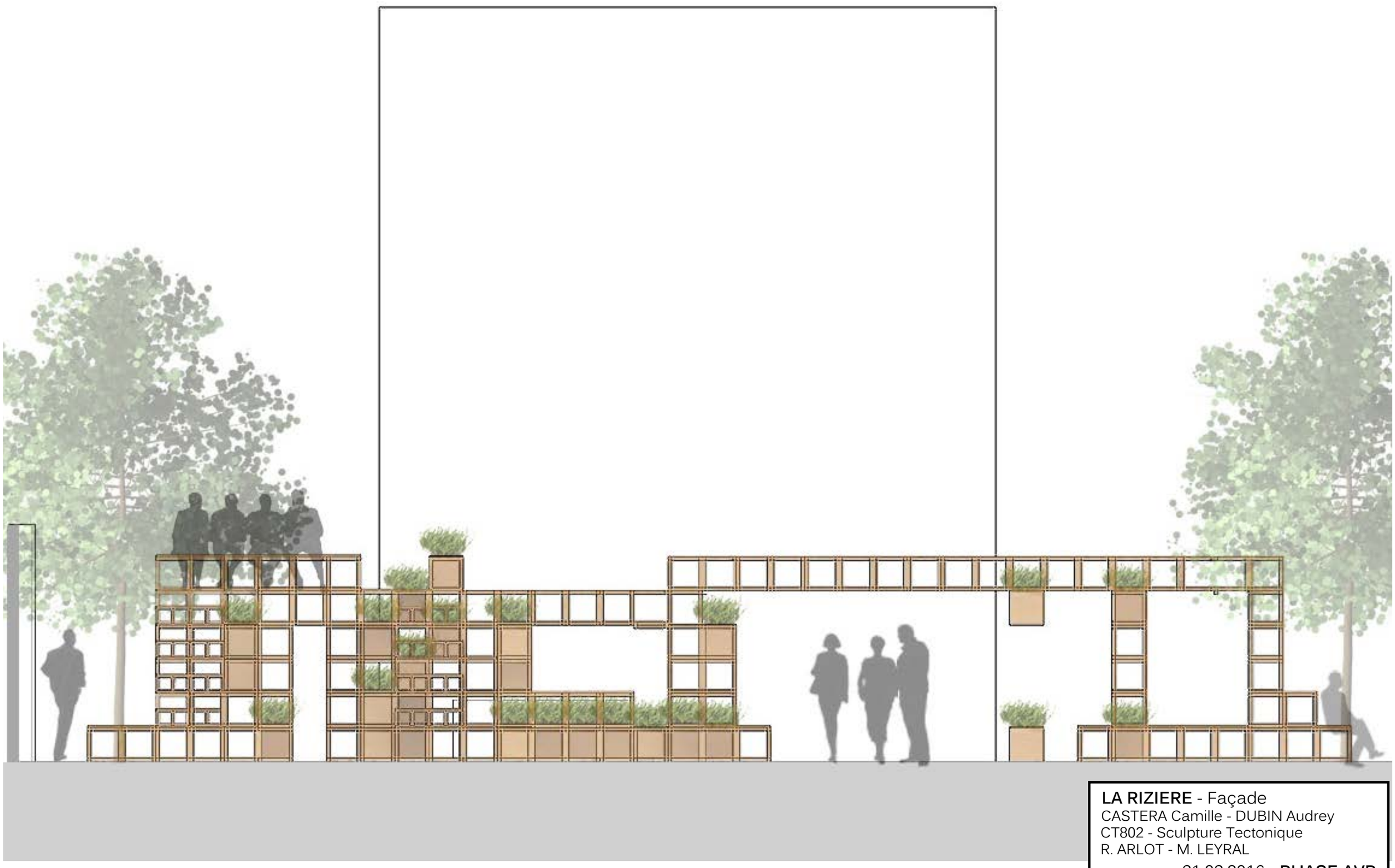
31.03.2016 - **PHASE AVP**

COUPE AA’ 1/50



LA RIZIERE - Coupe AA’ 1: 50
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

FACADE

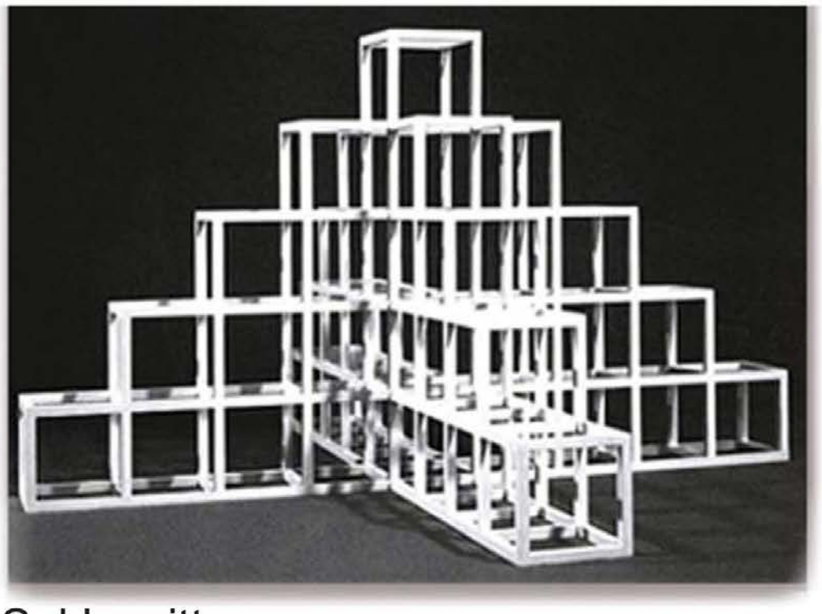


LA RIZIERE - Façade
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

REFERENCES



Sou Fujimoto : Many small cubes



Sol Lewitt

Projet : Rjukan Town Cabin
Lieu : Rjukan, Norvège

Architectes : Rallar Arkitekter
avec ***NTNU LIVE STUDIO***



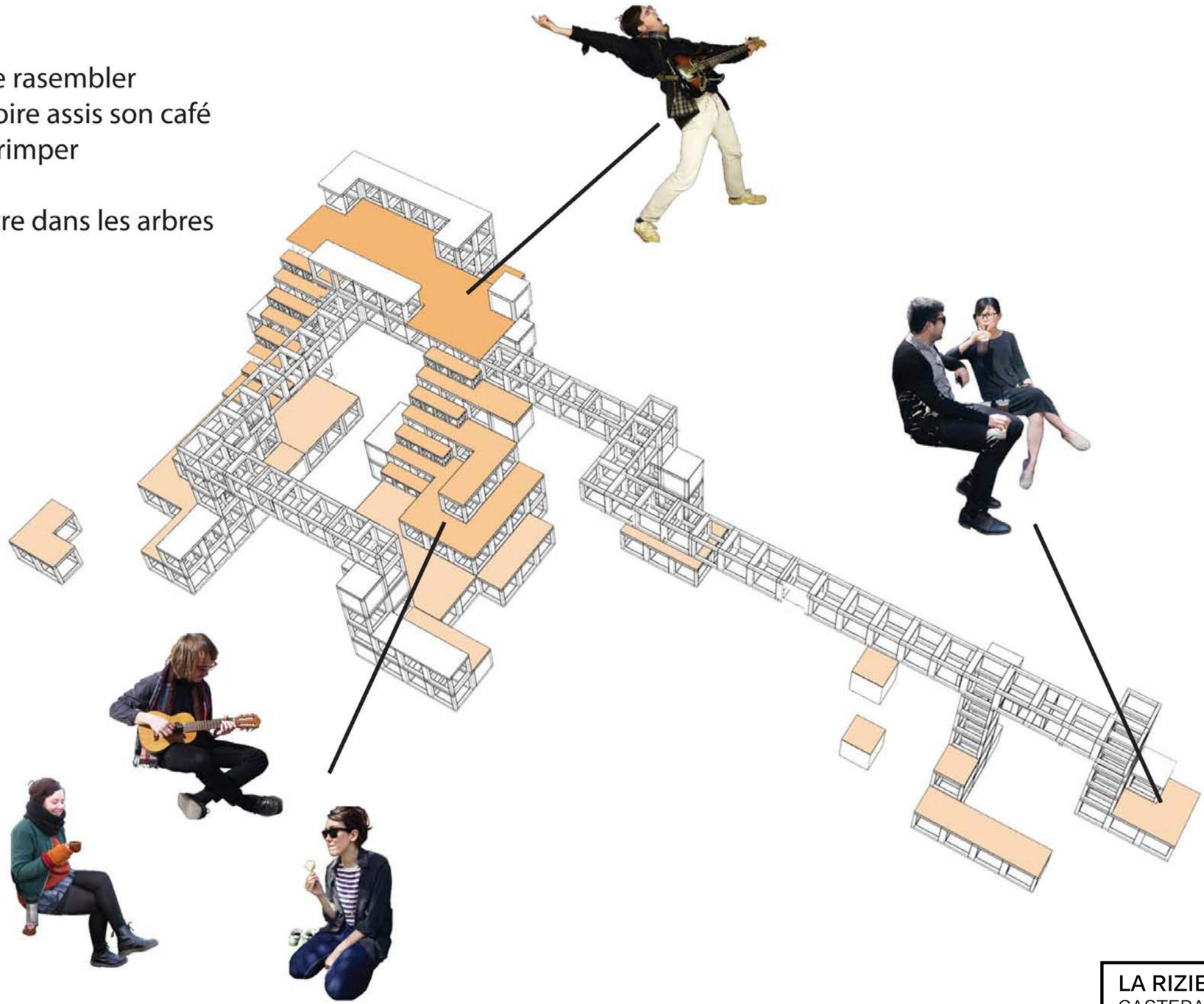


LA RIZIERE - Références
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

USAGES

Se rasembler
Boire assis son café
Grimper

Etre dans les arbres



LA RIZIERE - Usages
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

Eclairer
Accrocher
Se suspendre





LA RIZIERE - Usages
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

Poser son verre
Poser des choses
Cendriers



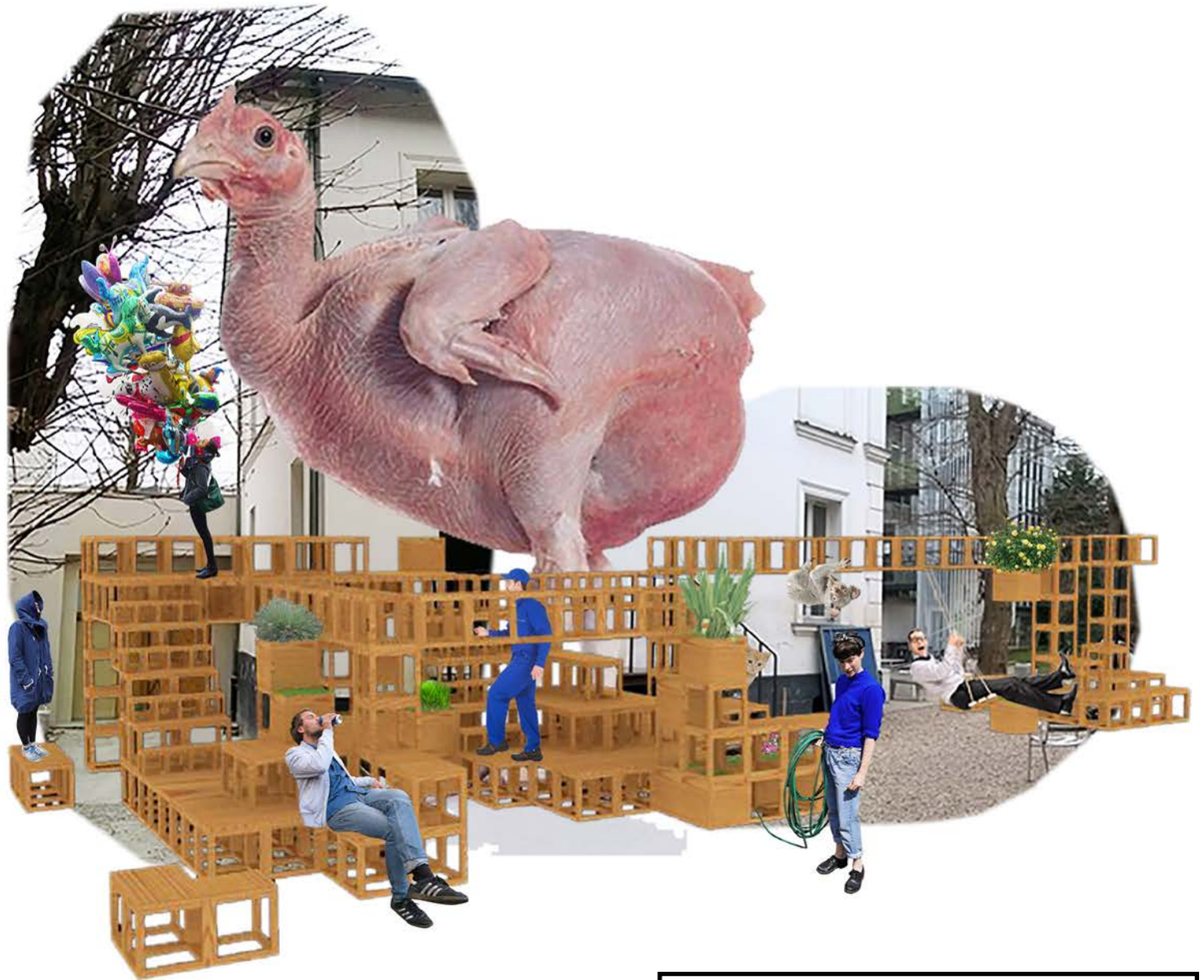
Plantes
Lumieres

LA RIZIERE - Usages
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**

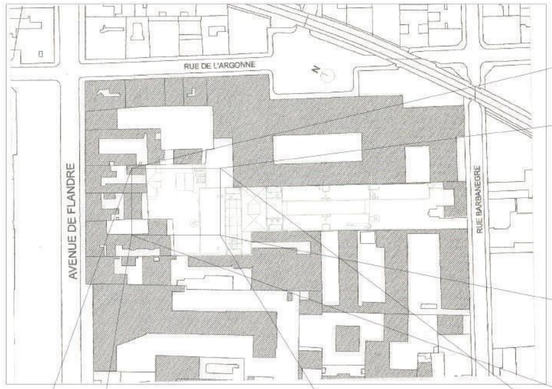
INSERTION DANS LE SITE

LA RIZIERE POUR TOUT // LA RIZIERE POUR TOUS





LA RIZIERE - Insertion dans le site
CASTERA Camille - DUBIN Audrey
CT802 - Sculpture Tectonique
R. ARLOT - M. LEYRAL
31.03.2016 - **PHASE AVP**





a / Espace fumeur Cafet

b / Espace cour abrité (K'Fete)

c / Terrasse administration

d / Espace fumeur Salle 100

e / Ping pong

f / Blocs de pierre / bancs

g / Pelouse

Objectifs :

-Créer un lieu acceuillant devant les entrées de la Cafet'

-Relier les espaces où se rassemblent les gens

-Utiliser la couverture du lieu comme un espace supplémentaire

-Lier les espaces par le sol (un VRAI sol) et par les airs

-Créer un spot pour les concerts de l'école qui soit ouvert à 180°

-Créer un lieu de sieste à l'ombre des arbres



1 / Entrée

2 / Garage à vélos

3 / K'Fete

4 / Cafet'

5 / Administration

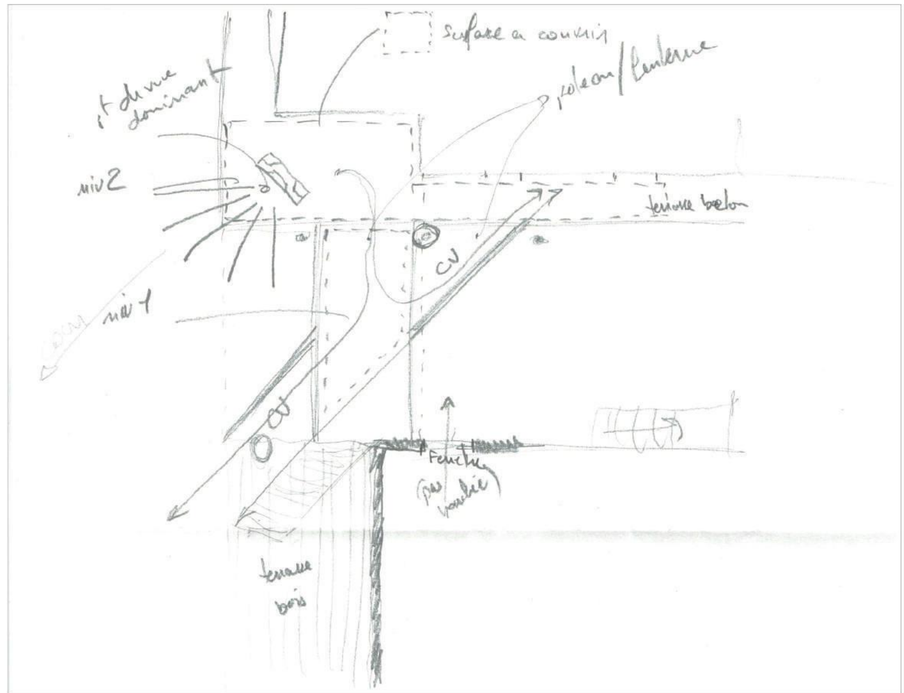
6 / Salle

7 / Accueil

8 / Vers atrium et amphi

9 / Salle 100

L'espace que l'on doit créer sera principalement utilisé durant les saisons froides : Il doit donc améliorer le confort des étudiants durant cette période.
On remarque que les différents lieux de regroupements ne sont pas tous conçus de manière optimale en fonction de leur usage. Par exemple nous n'avons pas d'abris devant la Cafet'.
On constate aussi que certains lieux de passage manque d'aménagements pour pouvoir être pratiqués de tout temps dans de bonnes conditions.

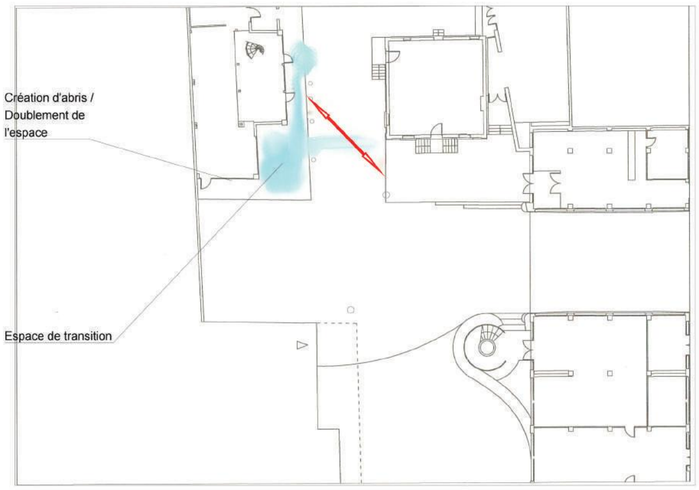


Problematiques :

-Ne pas assombrir la Cafet'

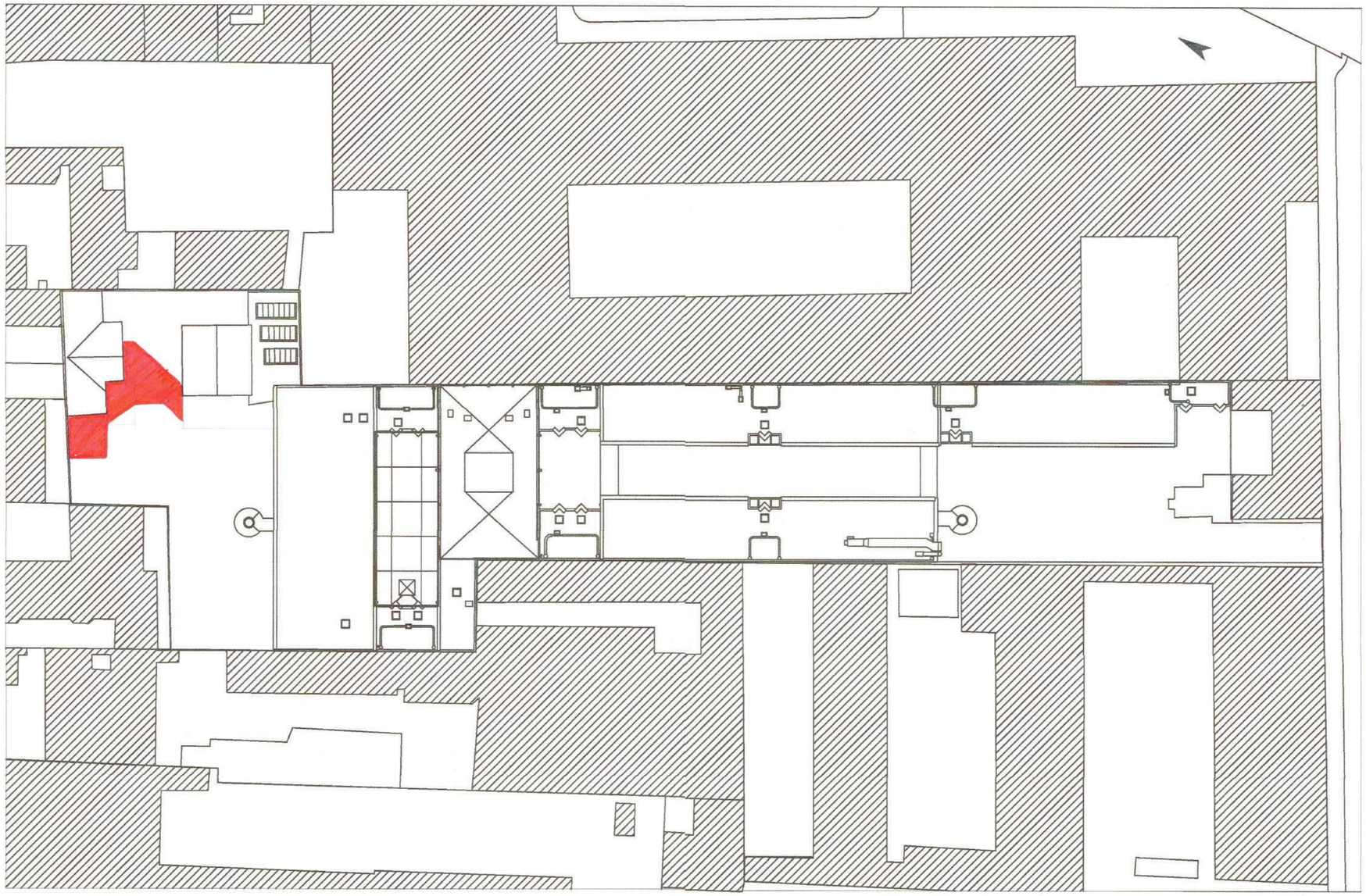
-Rendre l'espace crée facilement accessible

-Ne pas "boucher" l'axe entre la Cafet et l'administration

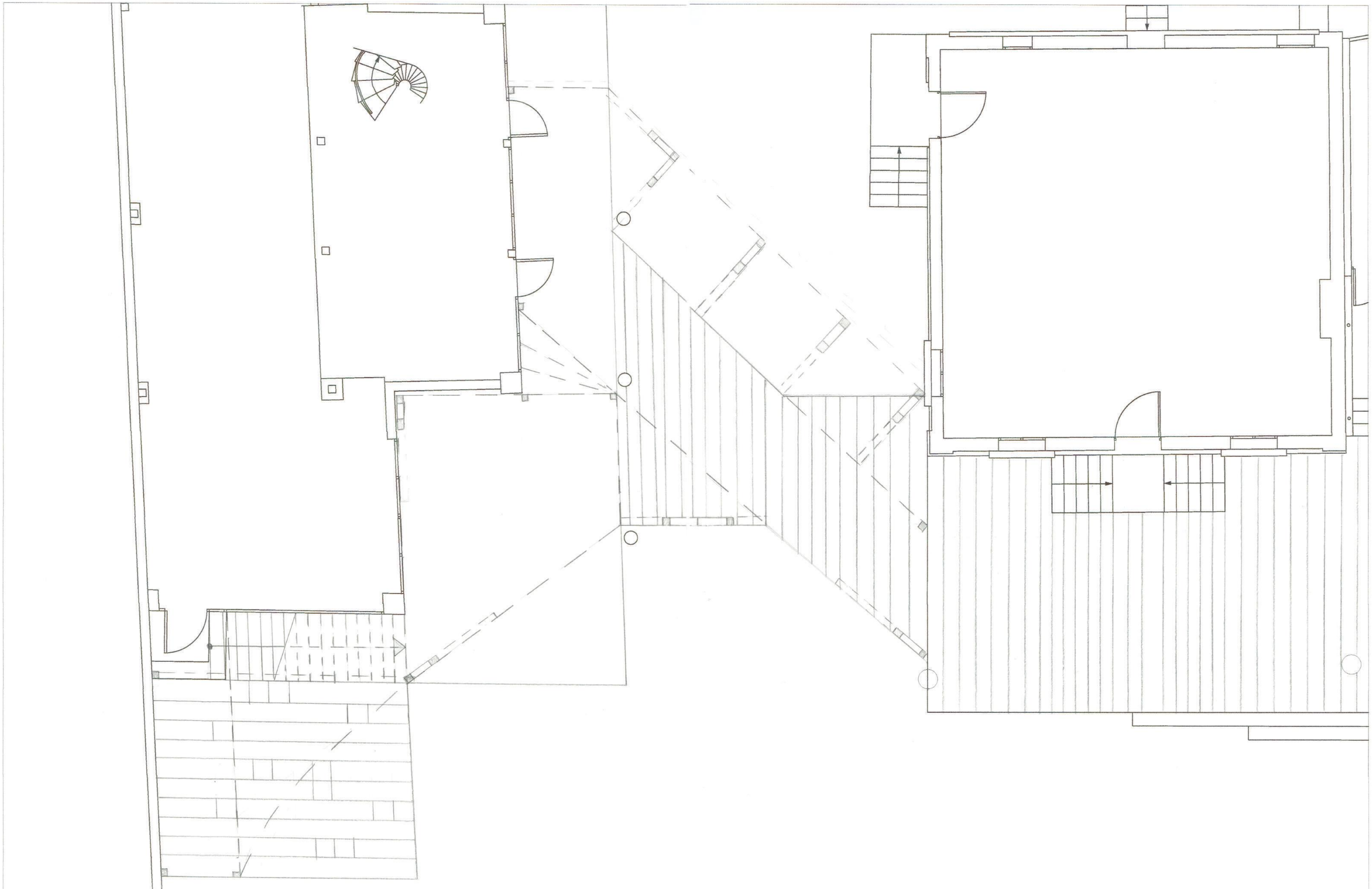


144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiant : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Perché ! Analyse du site	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016

4



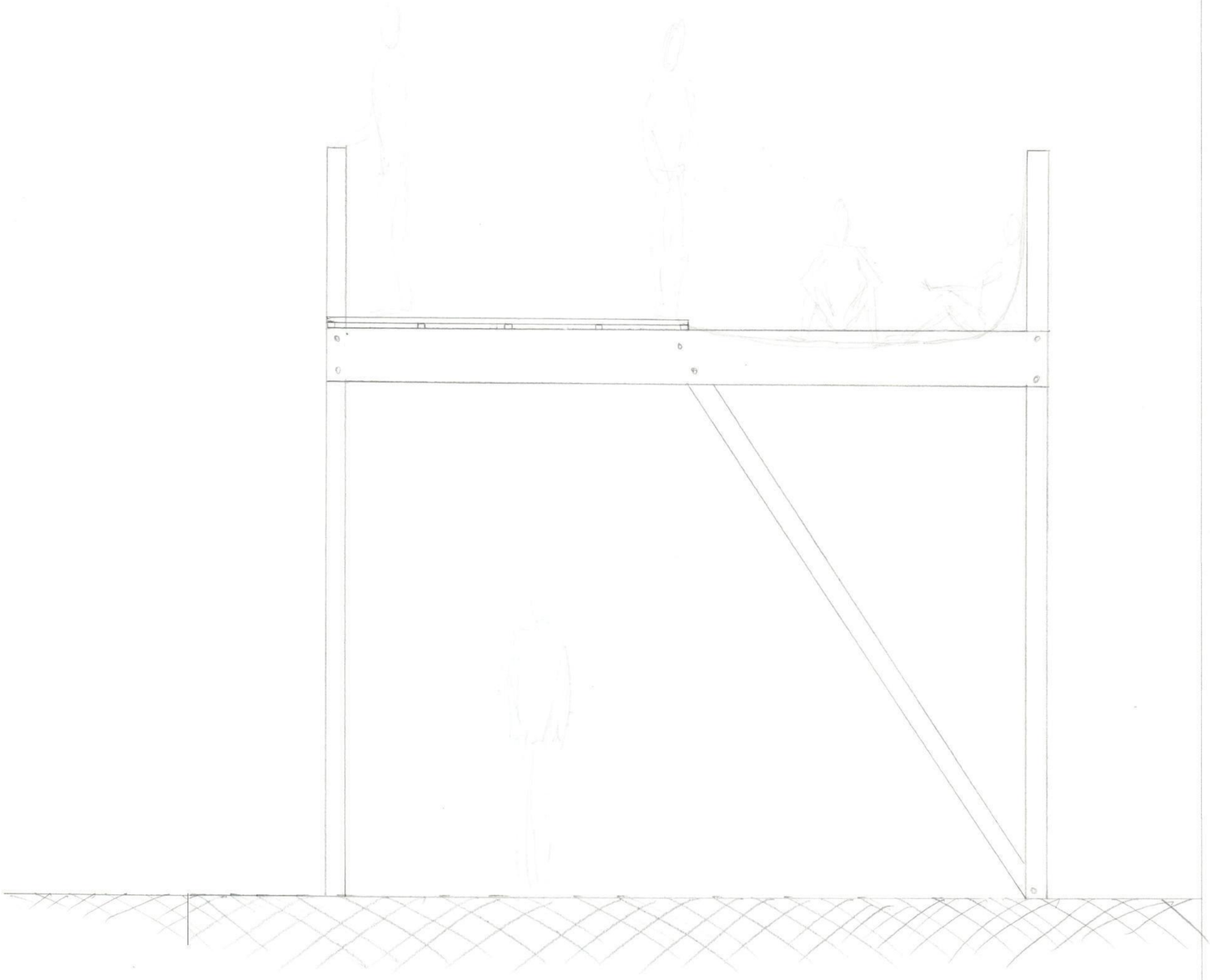
144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiant : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Peché ! Plan de tuation 1/00	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016



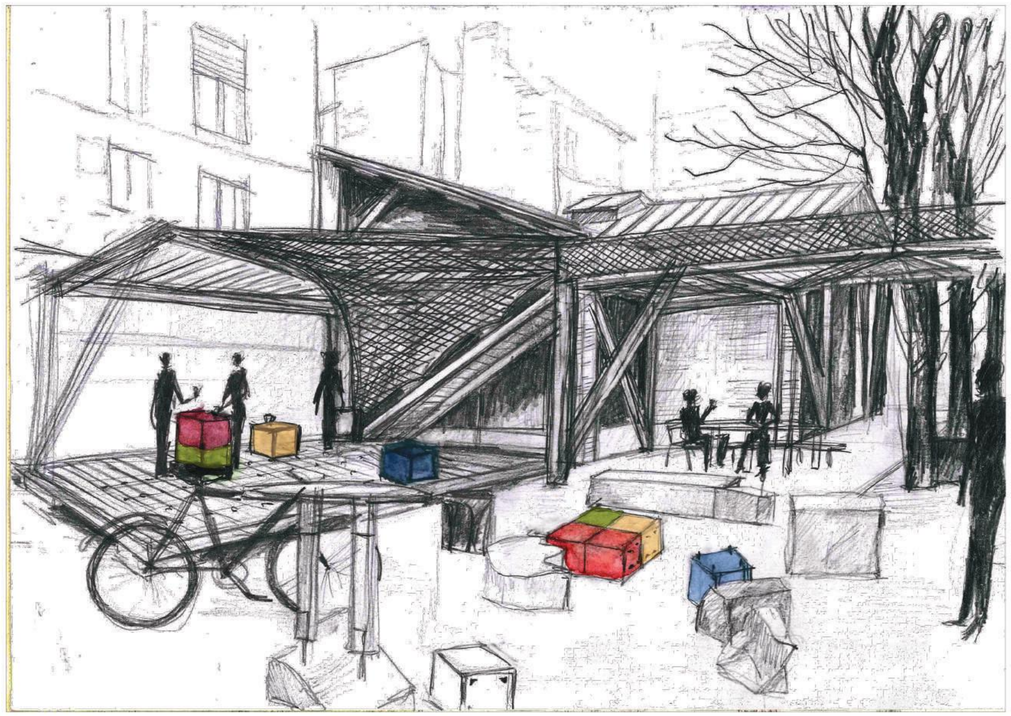
144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiant : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Pe ché ! Plan :DC 1/)	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016

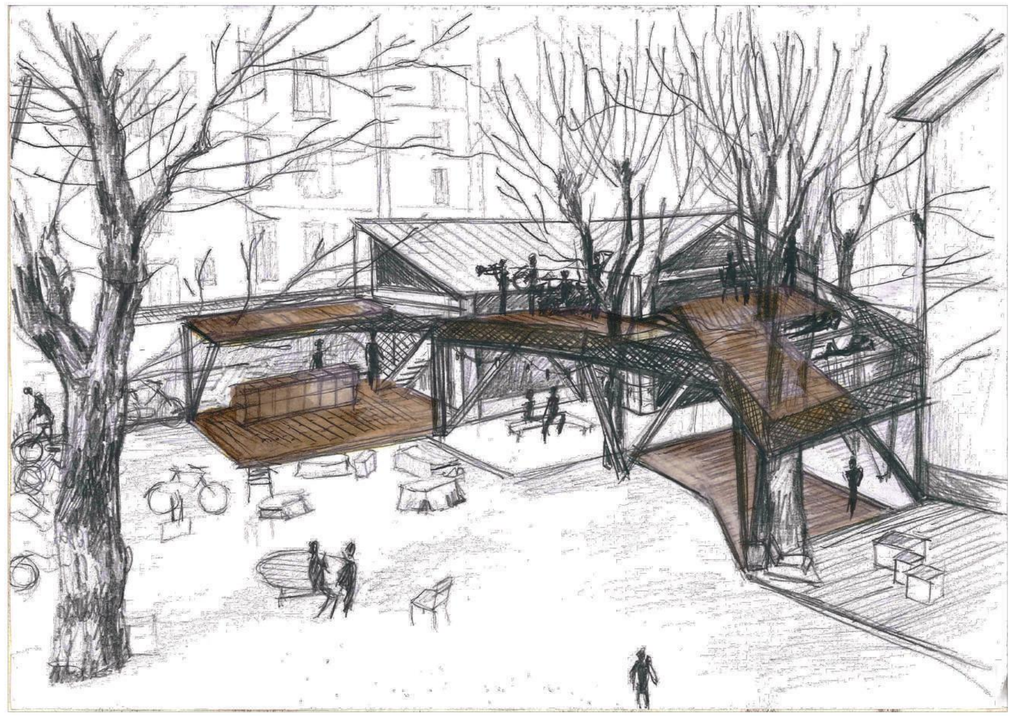
144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiant : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Perché ! Plan 1er 1/50	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016



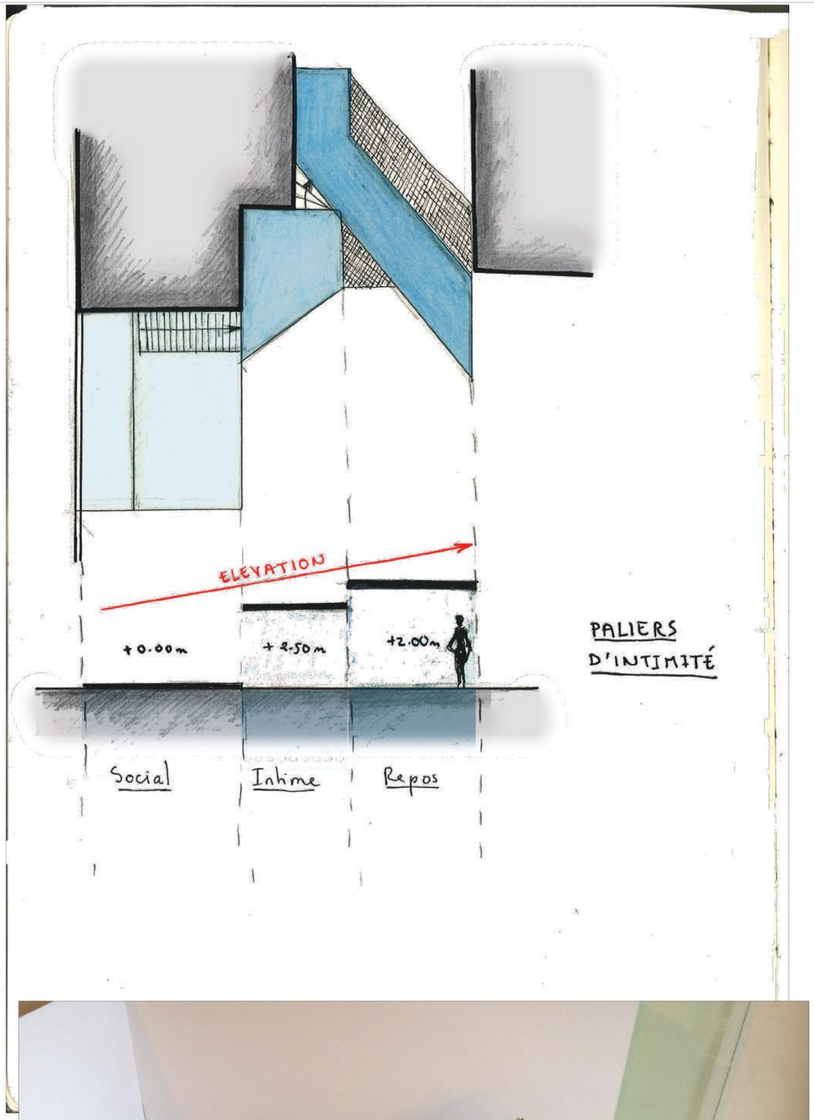


144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiants :		O' Perché !	Enseignants :	Phase Avant Projet AVP
	Arnaud PLANA	Alexiane Murino Leemhuis	Copes	Raphael ARLOT	Date : 30 Mars 2016
	2012492	16E14	120	Marc LEYRAL	



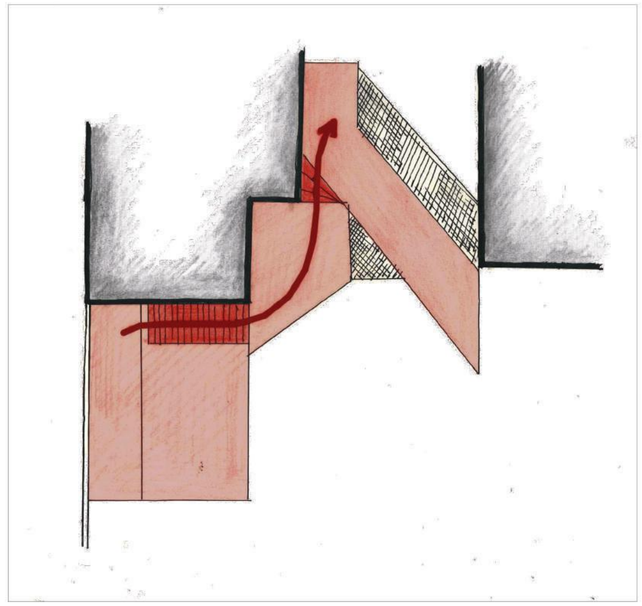


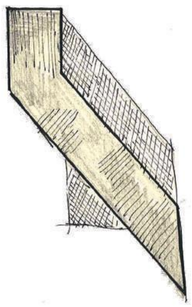
144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiants : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Perché ! Croquis	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016



PALIERS
D'INTIMITÉ







REPOS

Filet Repos

Lit Assise



INTIME

Vue Contempler

Assise Détente

Scène



SOCIAL

Personnalisation

Modules Jeux

Action

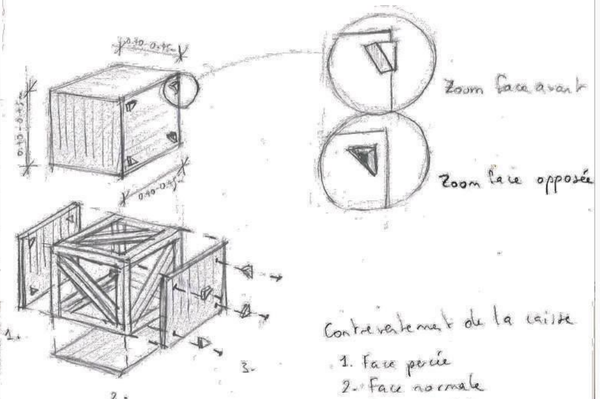
Ludique

Mobile Abrité Bar

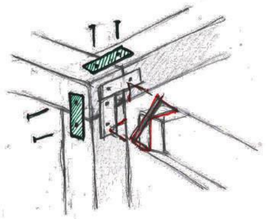
Prolifération

144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiants : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Perché ! Schémas de principes	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016

Assemblages O'perché
(Modules 1/2)



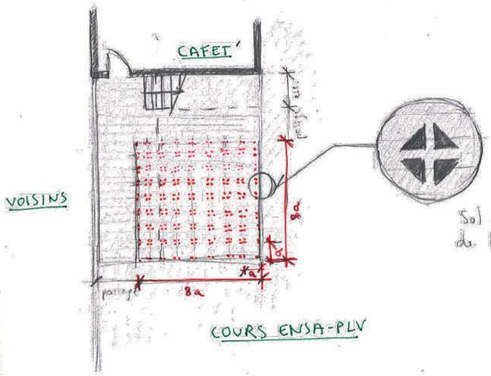
Contreventement de la caisse
1. Face percée
2. Face normale
3. Face avec tenons



— Système plaquettes métalliques et clous

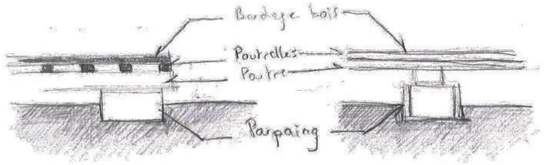
— Système encoches pour contreventements.

Assemblages O'perché
(Modules 2/2)



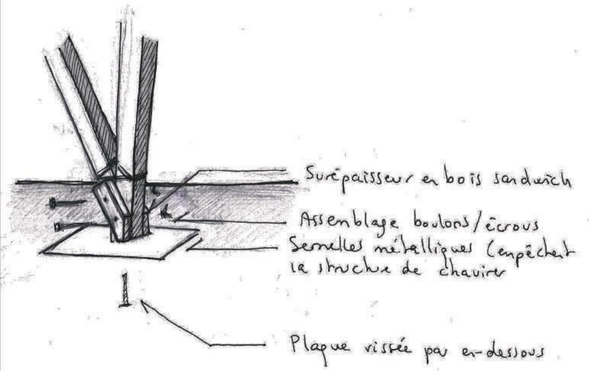
Détails Fondations

1. Accroche au sol de la terrasse au sol

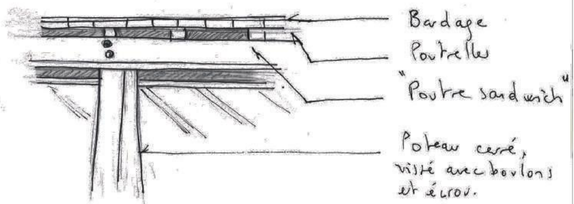


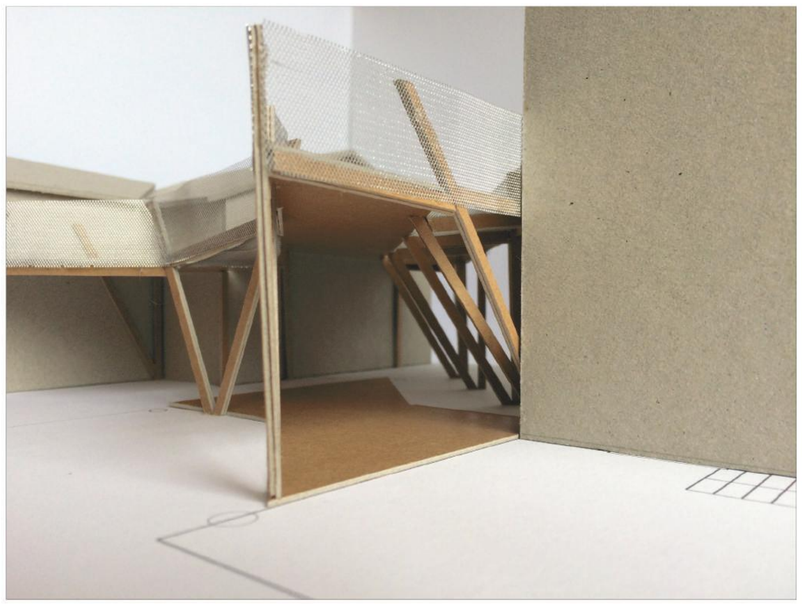
Assemblages O'perché

2. Rapport au sol structure perché



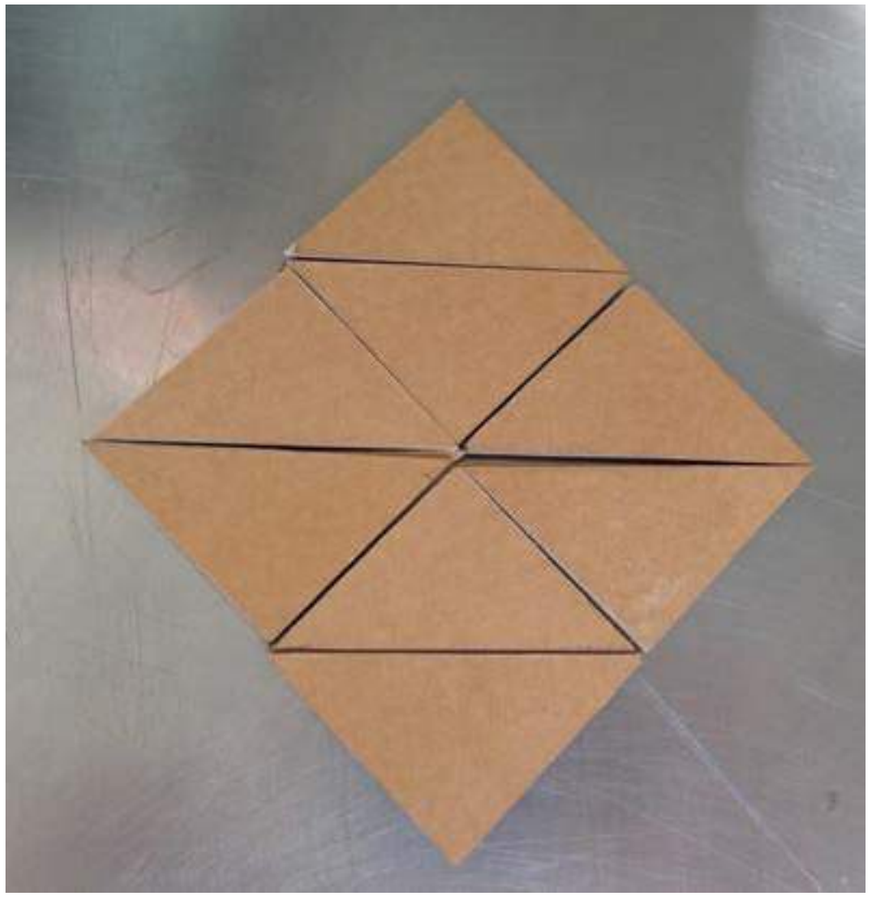
3. Raccord parties suspendues/poteaux





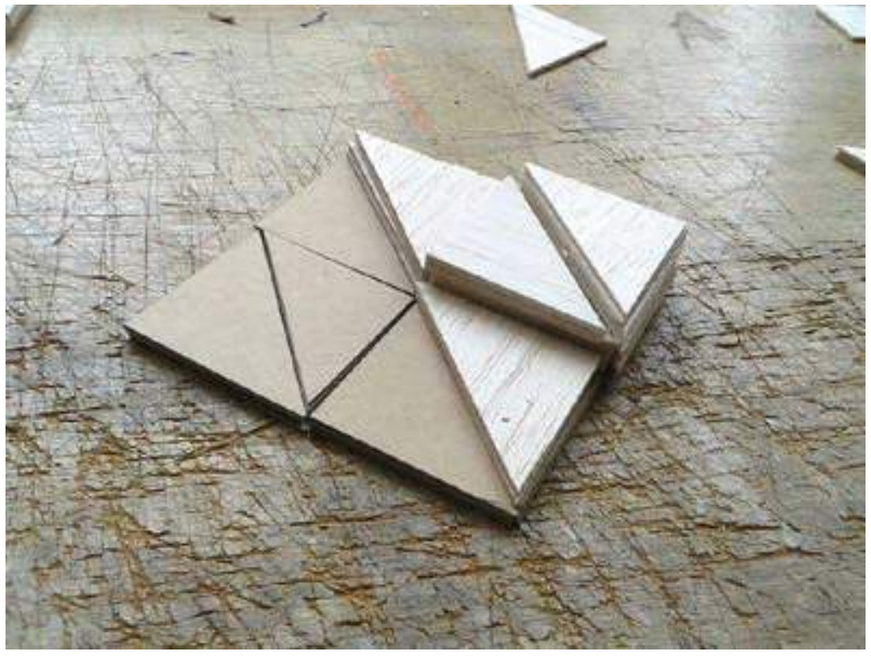


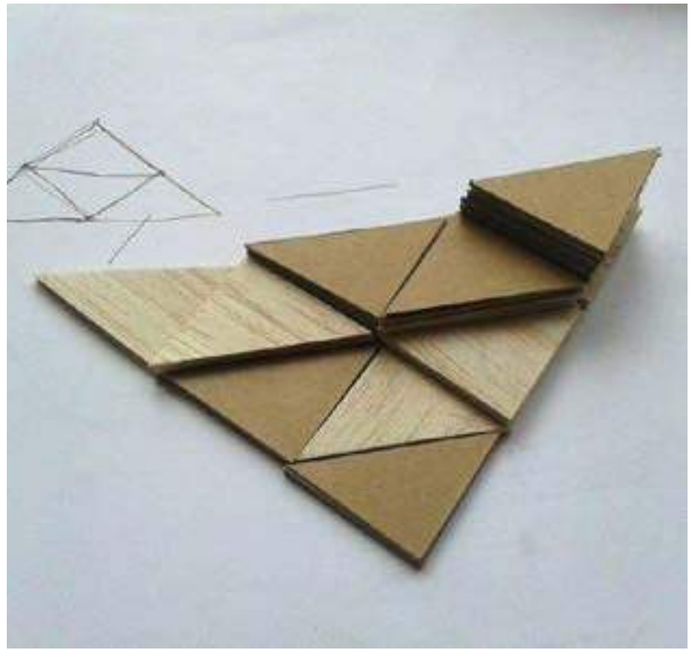
144, Avenue de Flandre 75019 - Paris Cour intérieure Cafet	Etudiants : Arnaud PLANA 2012492	Alexiane Murino Leemhuis 16E14	O' Perché ! Assemblage	Enseignants : Raphael ARLOT Marc LEYRAL	Phase Avant Projet AVP Date : 30 Mars 2016

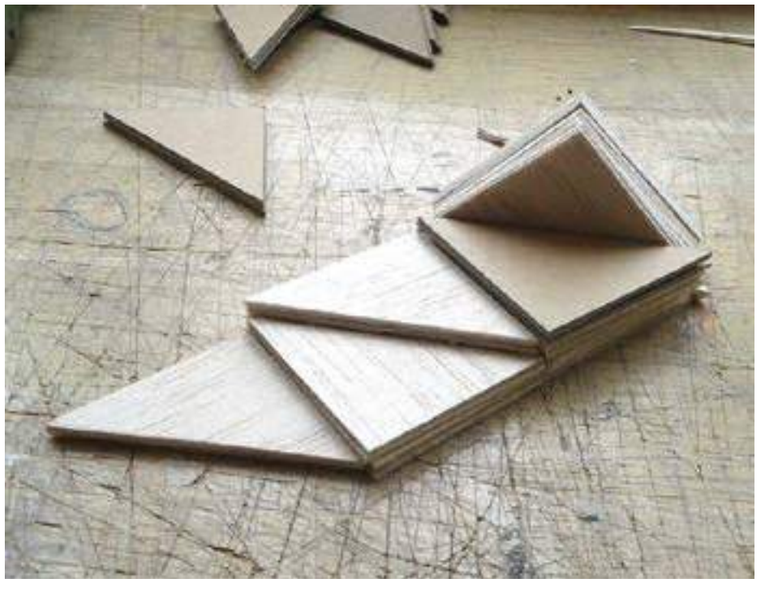








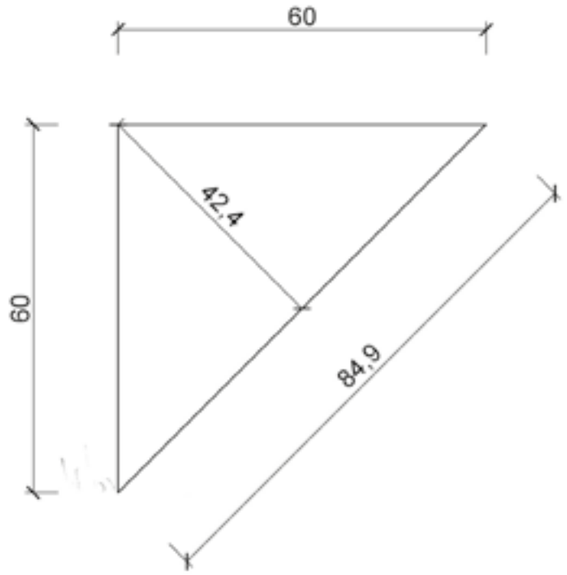


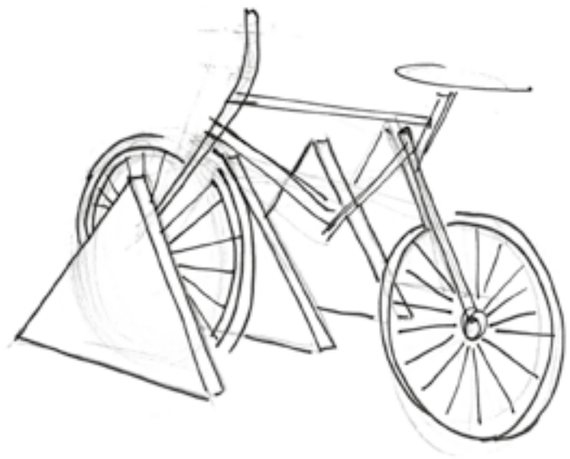


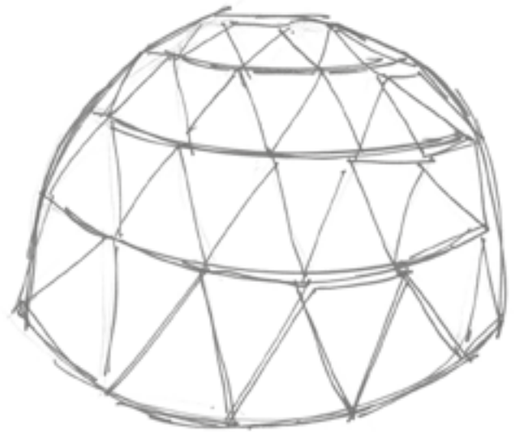
Dune Pavillon

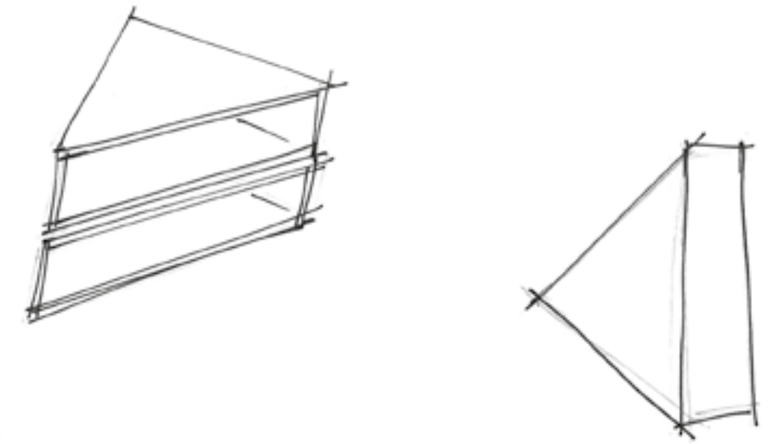
Maquettes

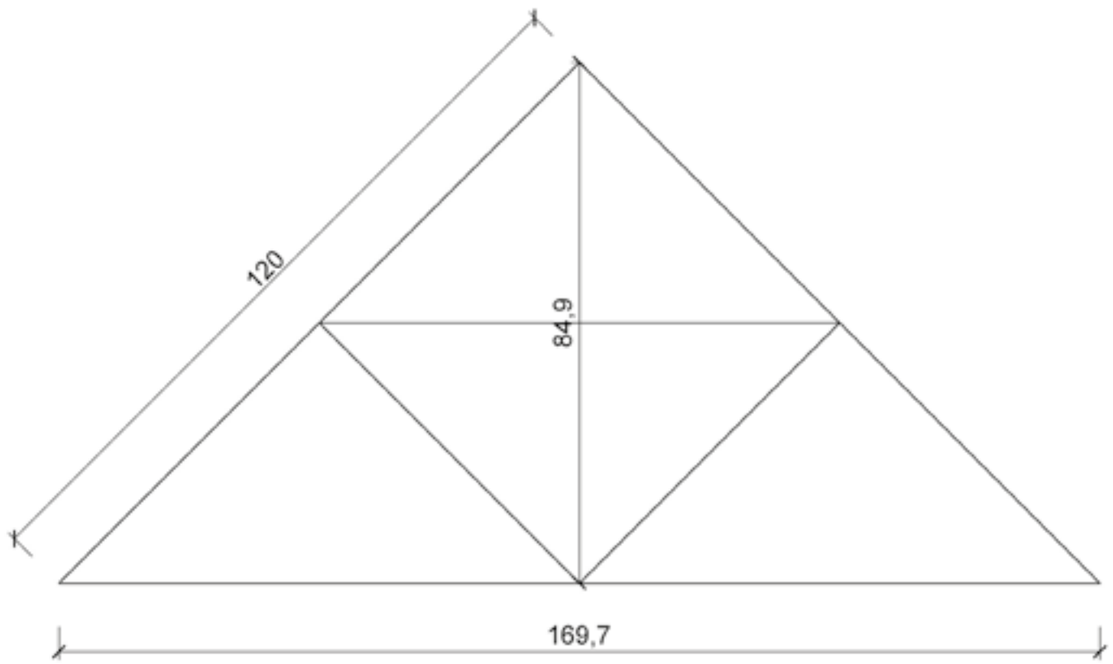
Angeli Orso
Moro Martina

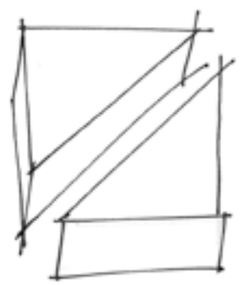


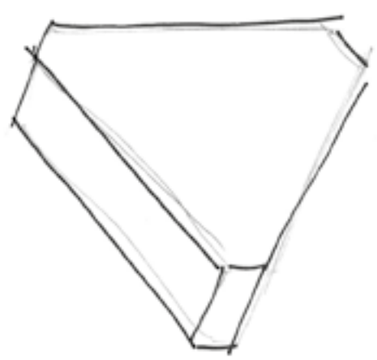








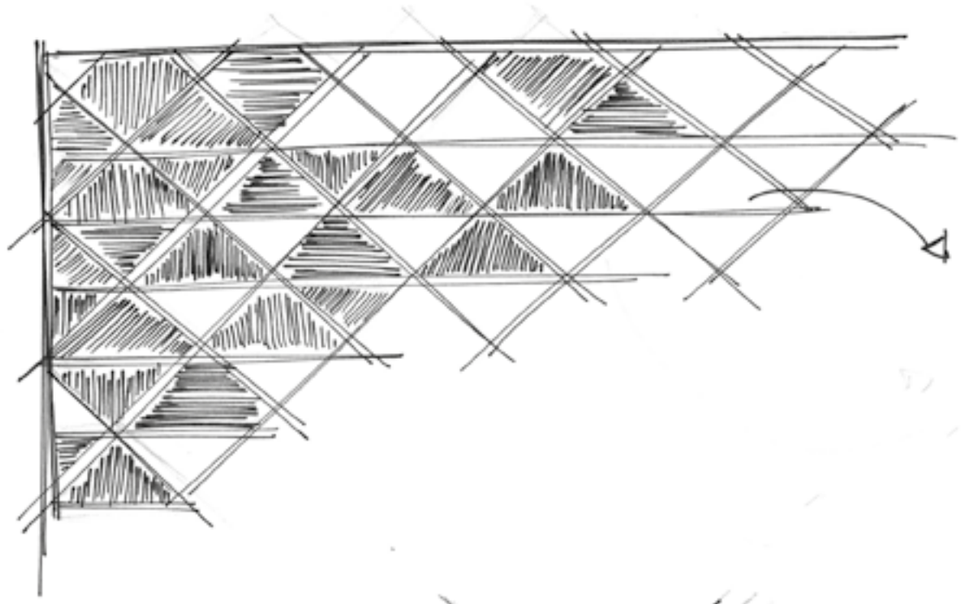


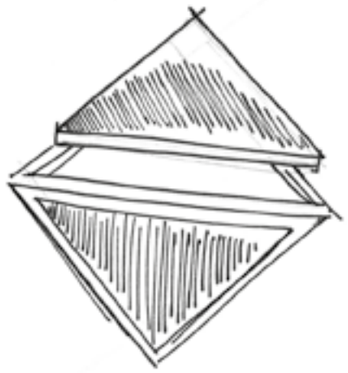


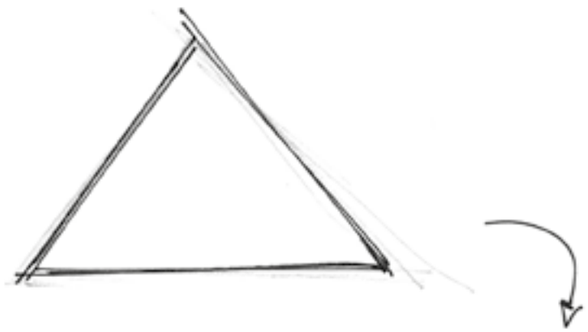
Dune Pavillon

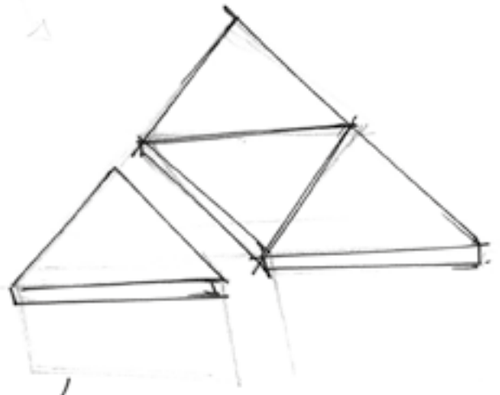
croquis

Angeli Orso
Moro Martina

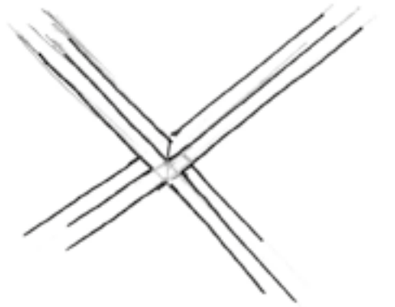




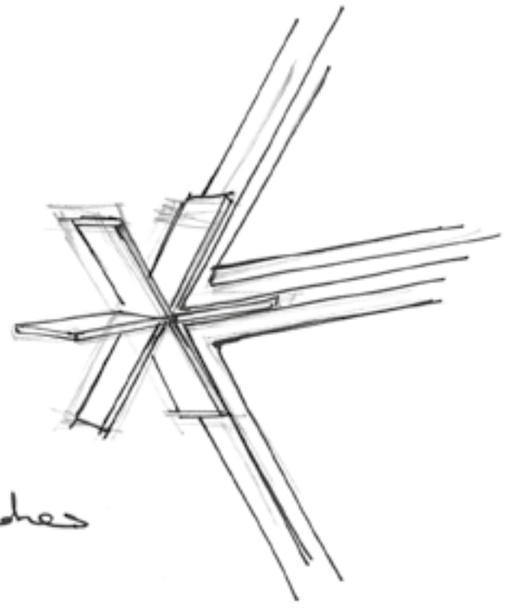














Dune Pavillon

croquis

Angeli Orso
Moro Martina

2 modules



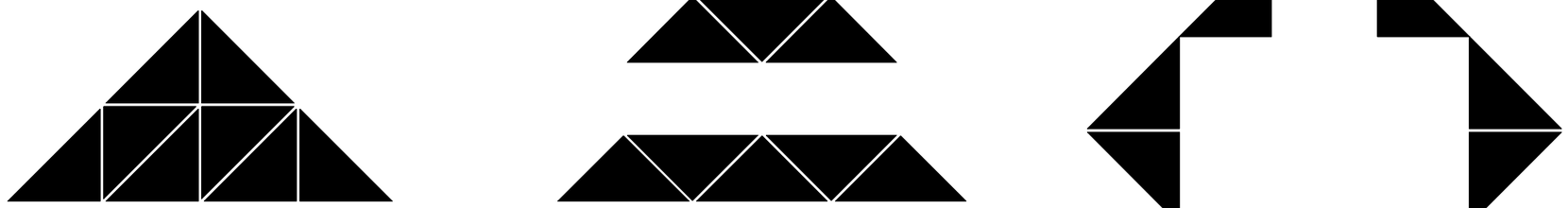
3 modules



4 modules



8 modules



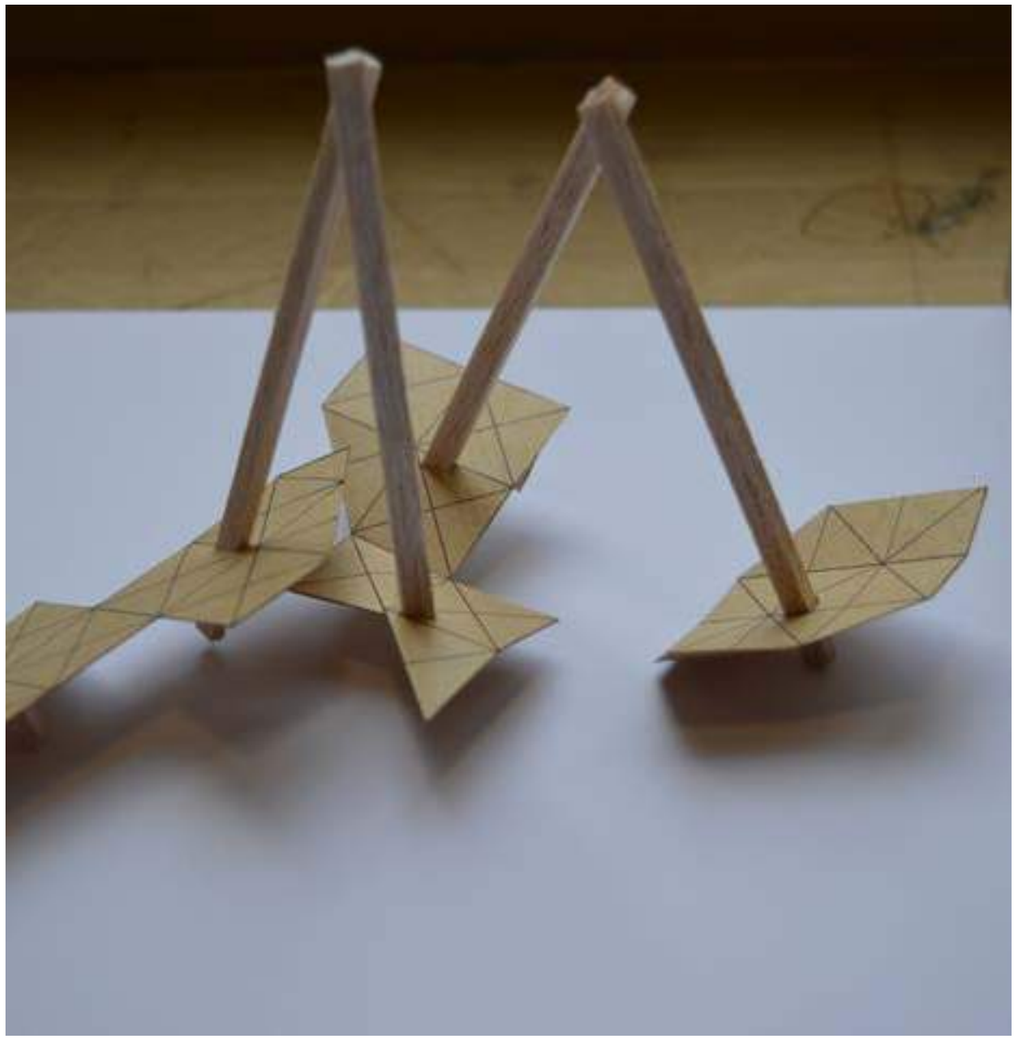
9 modules

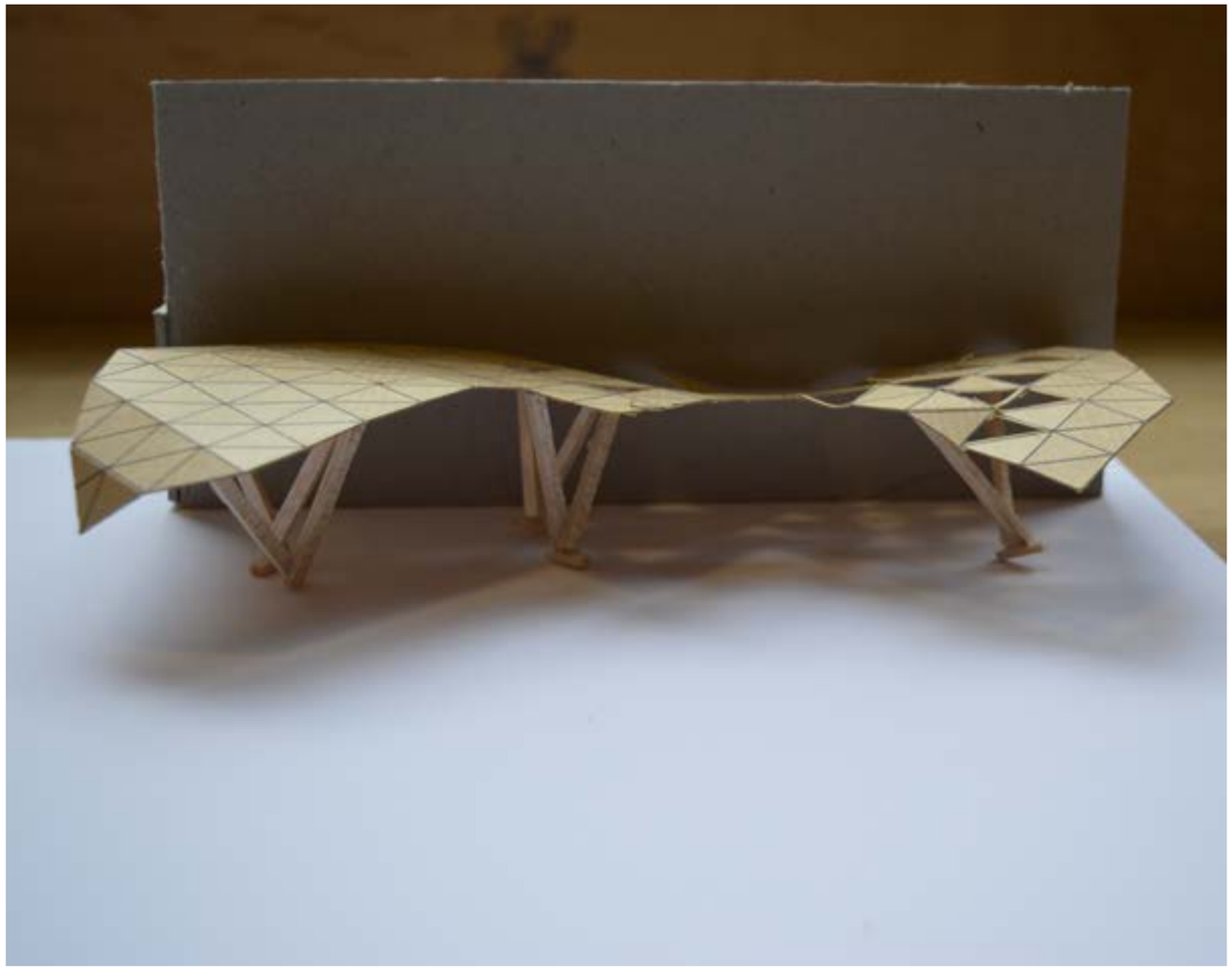


Dune Pavillon

études

Angeli Orso
Moro Martina





Dune Pavillon

Maquettes

Angeli Orso
Moro Martina

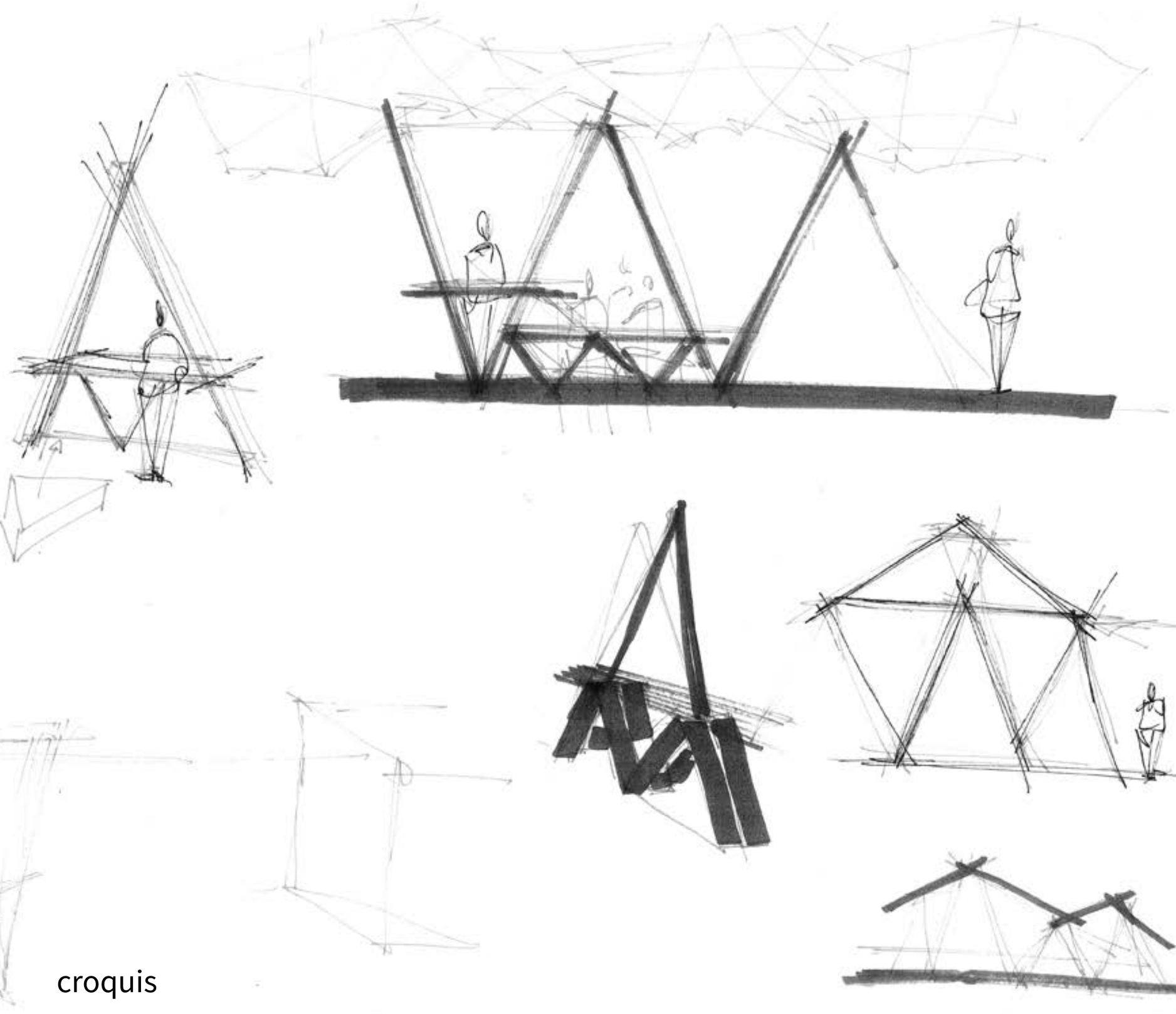




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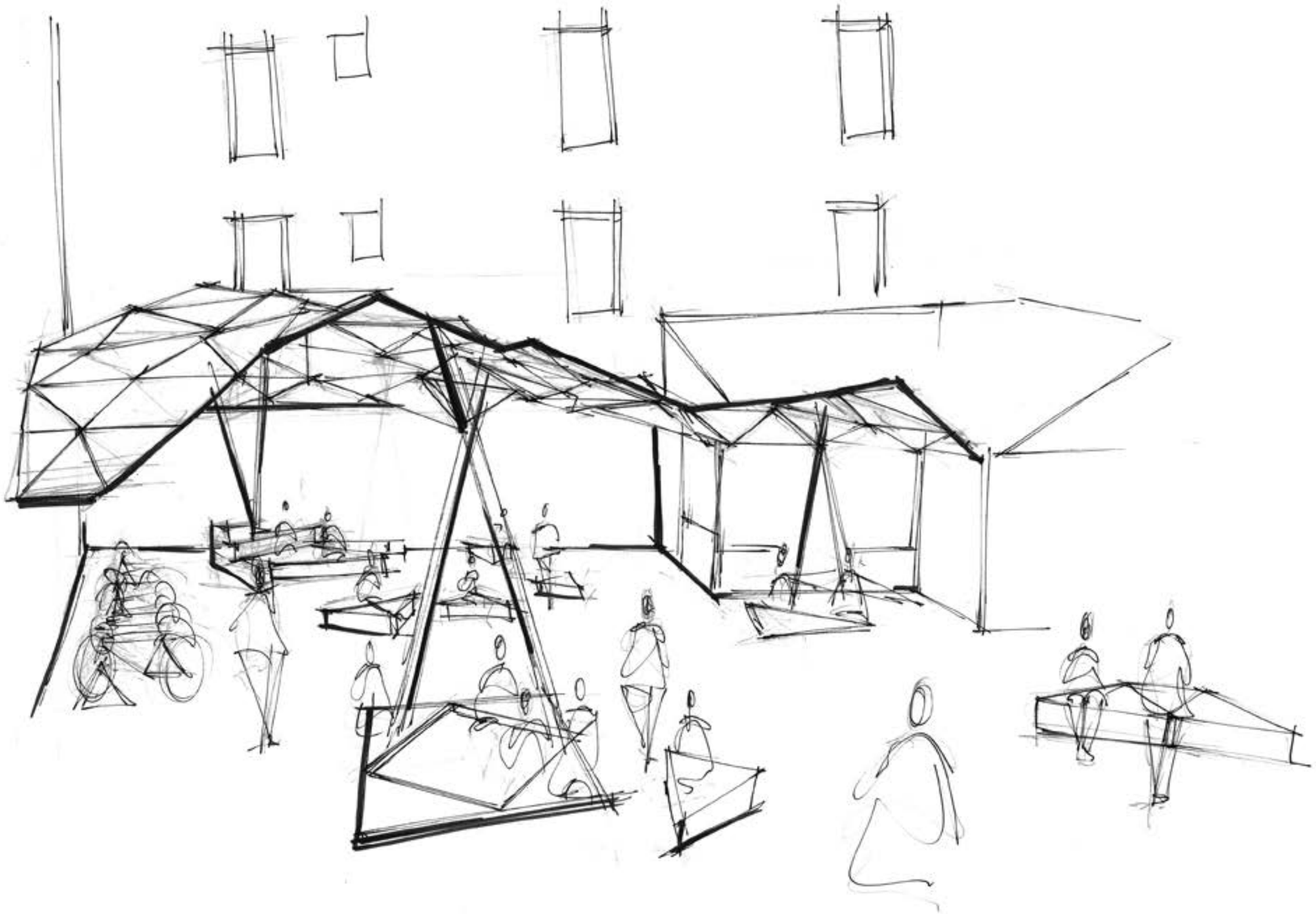
Maquettes

Angeli Orso
Moro Martina



Dune Pavillon croquis

Angeli Orso
Moro Martina



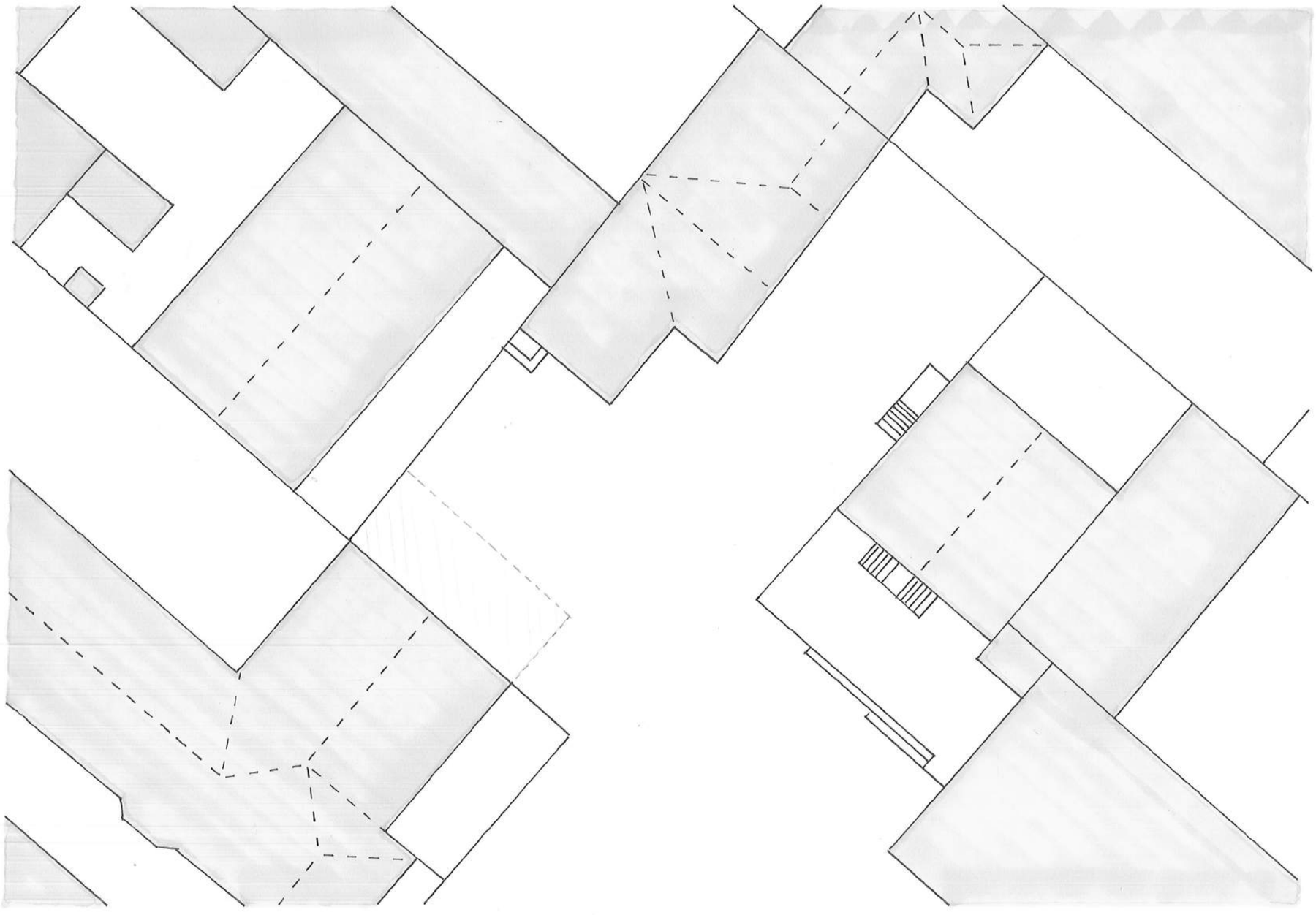
Dune Pavillon croquis

Angeli Orso
Moro Martina

PHASE APS - APV 30 MARS 2016

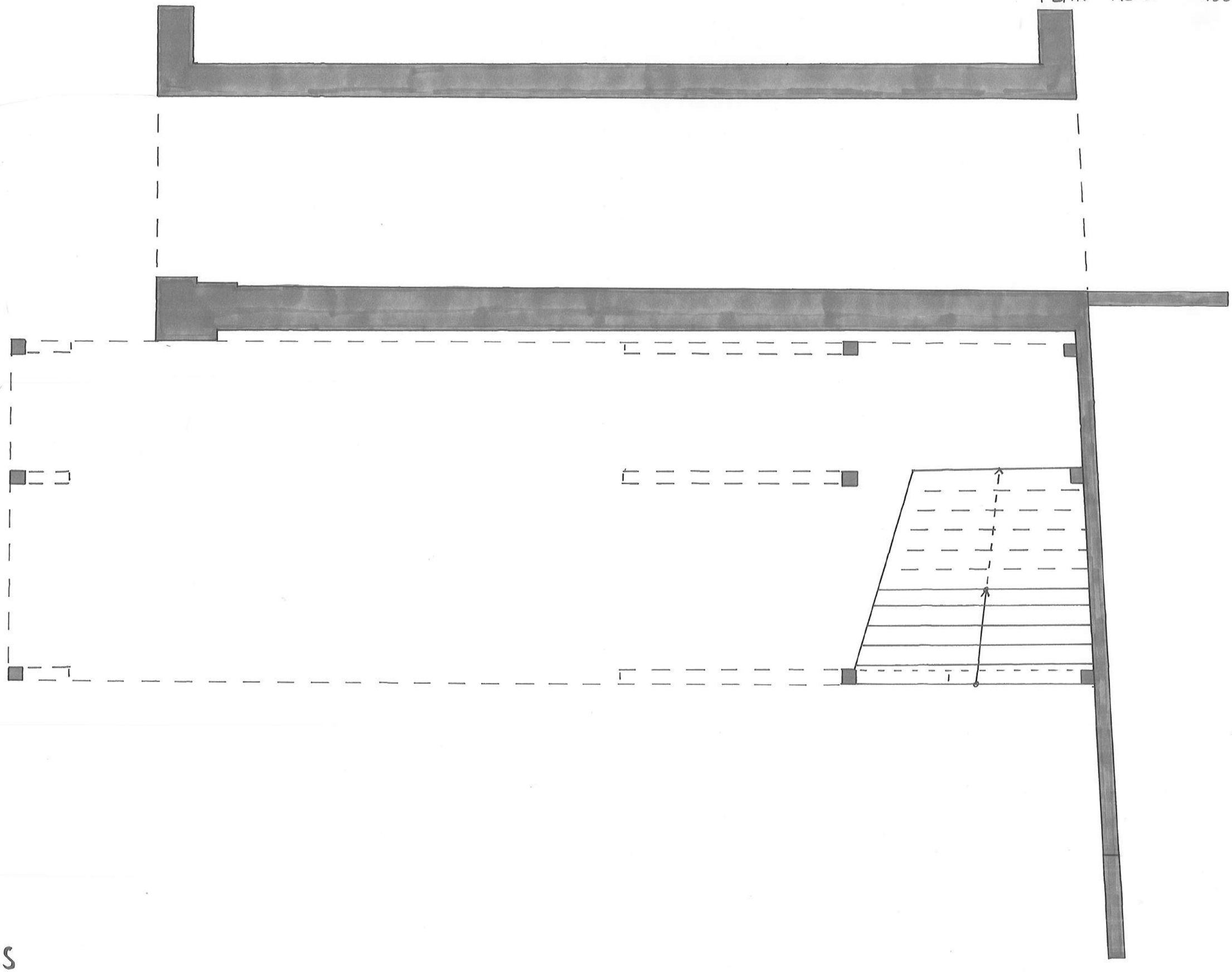
Alexandre LEDURE et Camille GENOUD

PLAN MASSE 1/200



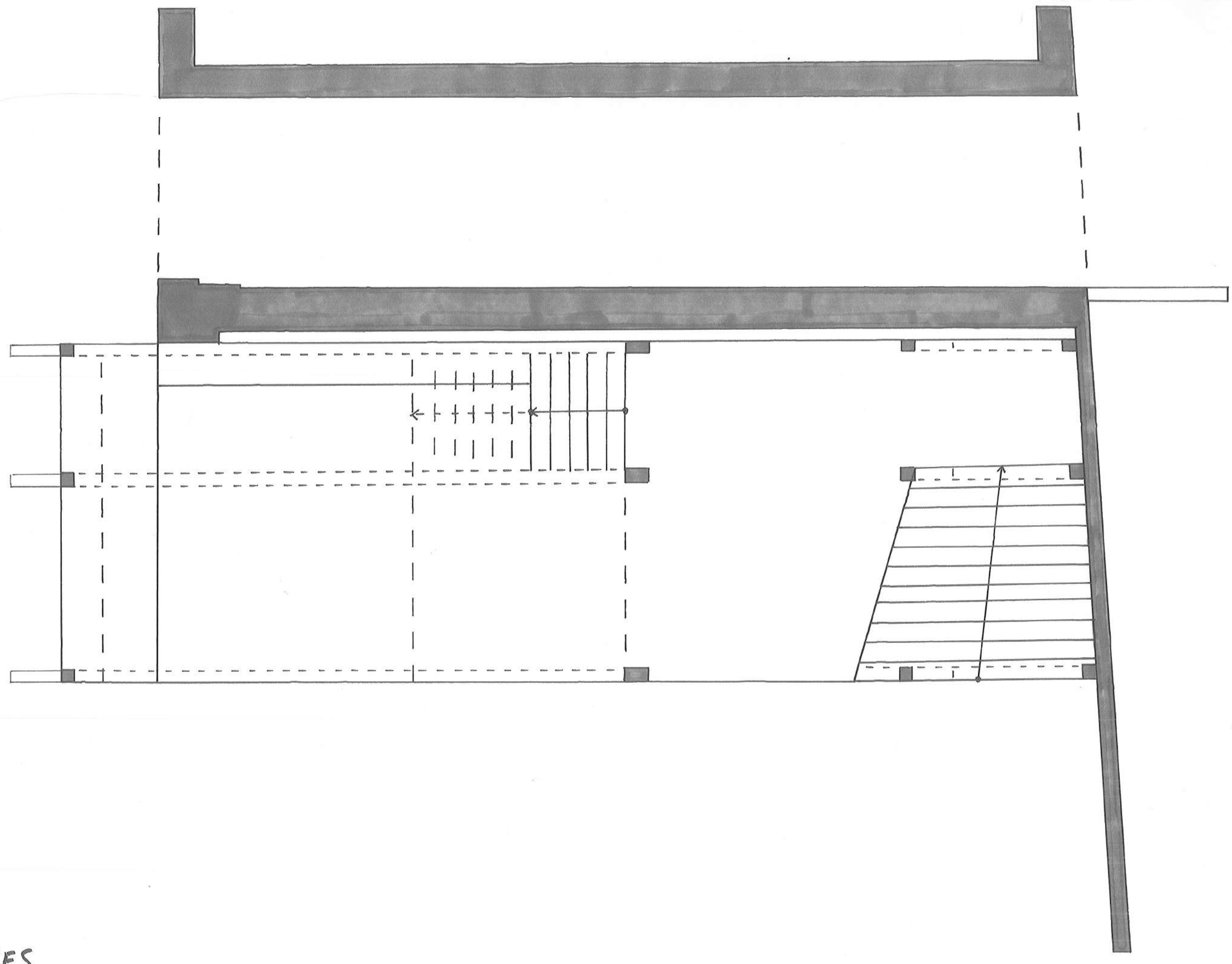
LES TRIASSES

PLAN RDC 1/50



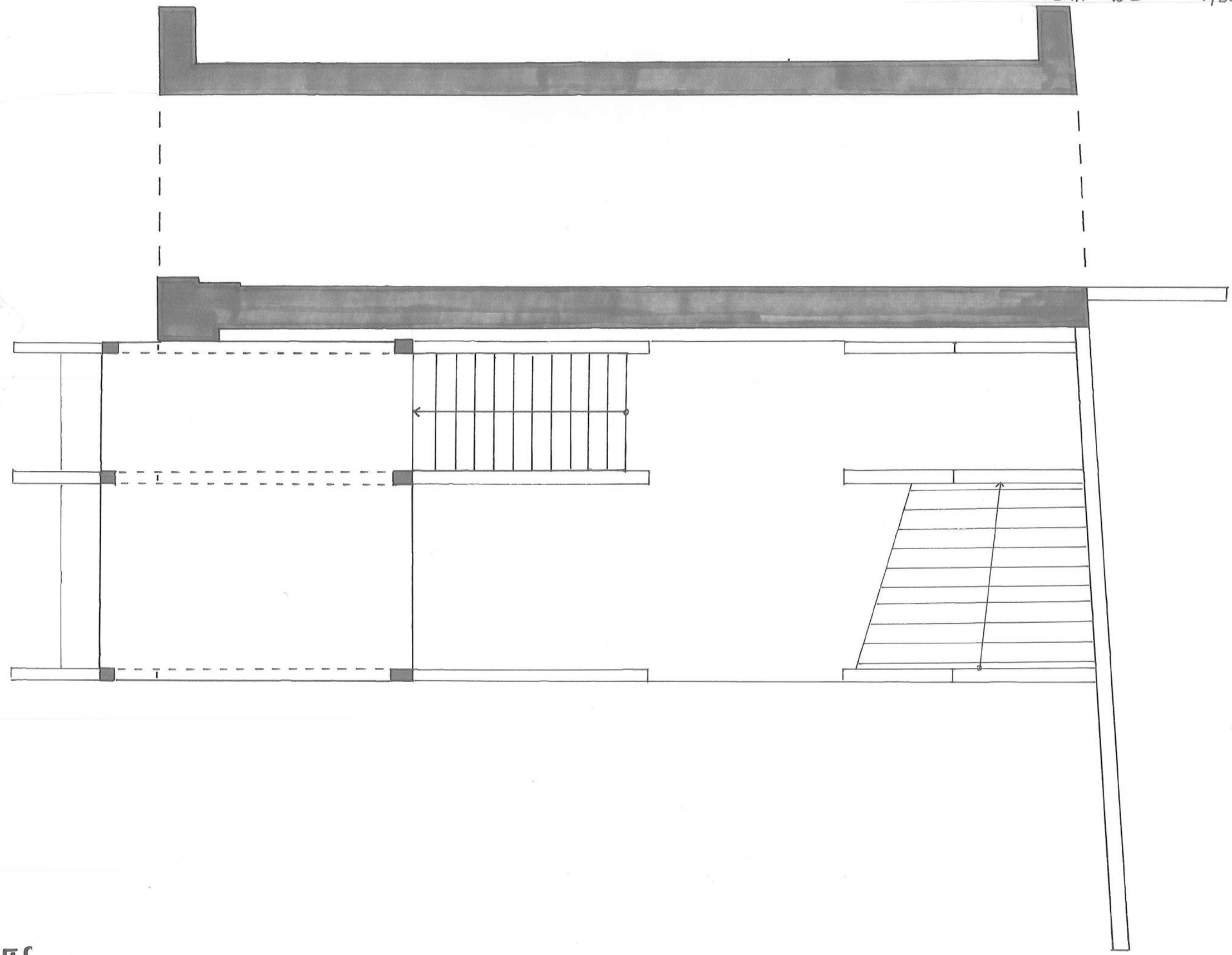
LES TRIASSES

PLAN RDC 1/50



LES TRIASSES

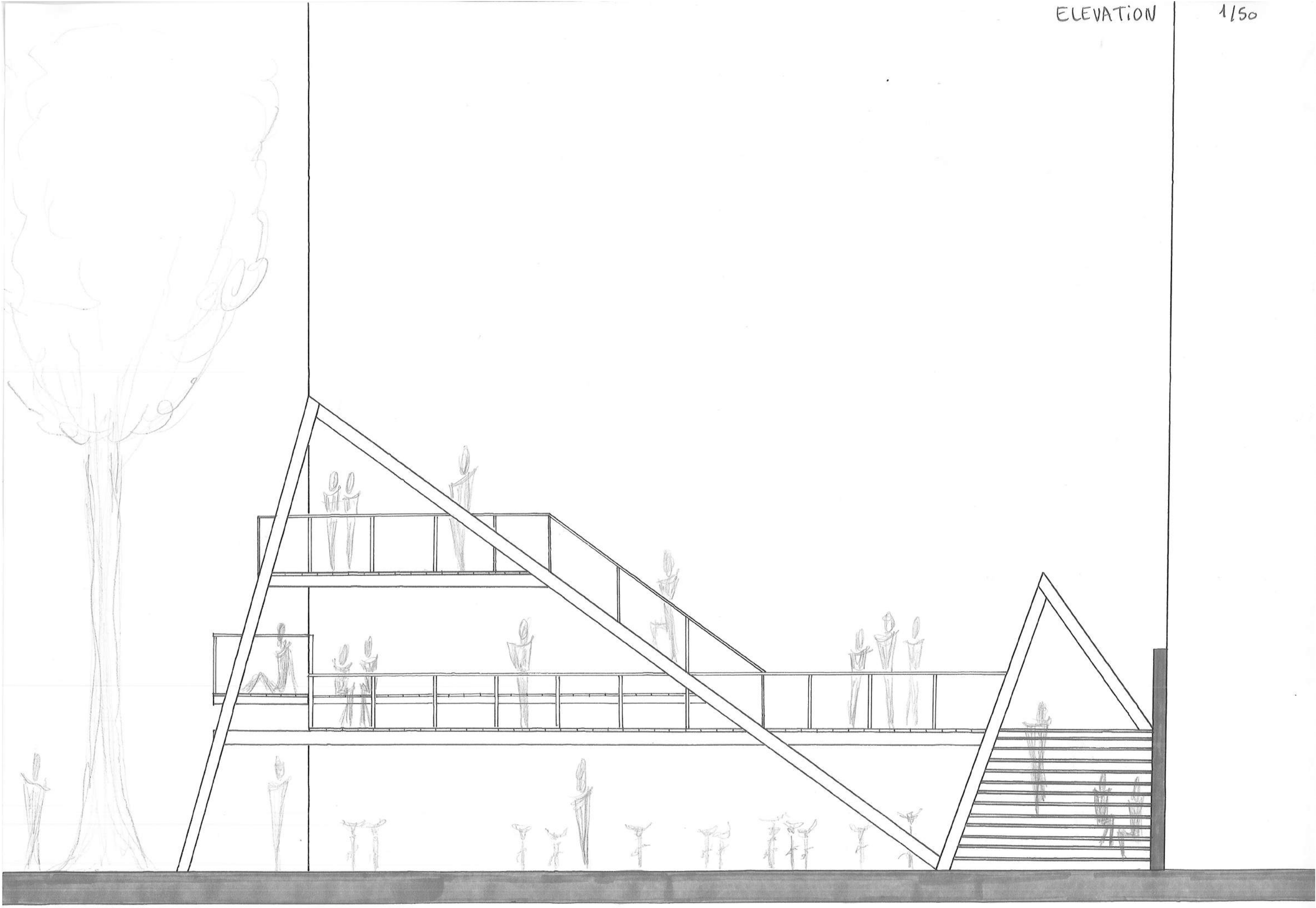
PLAN R@2 1/50



LES TRIASSES

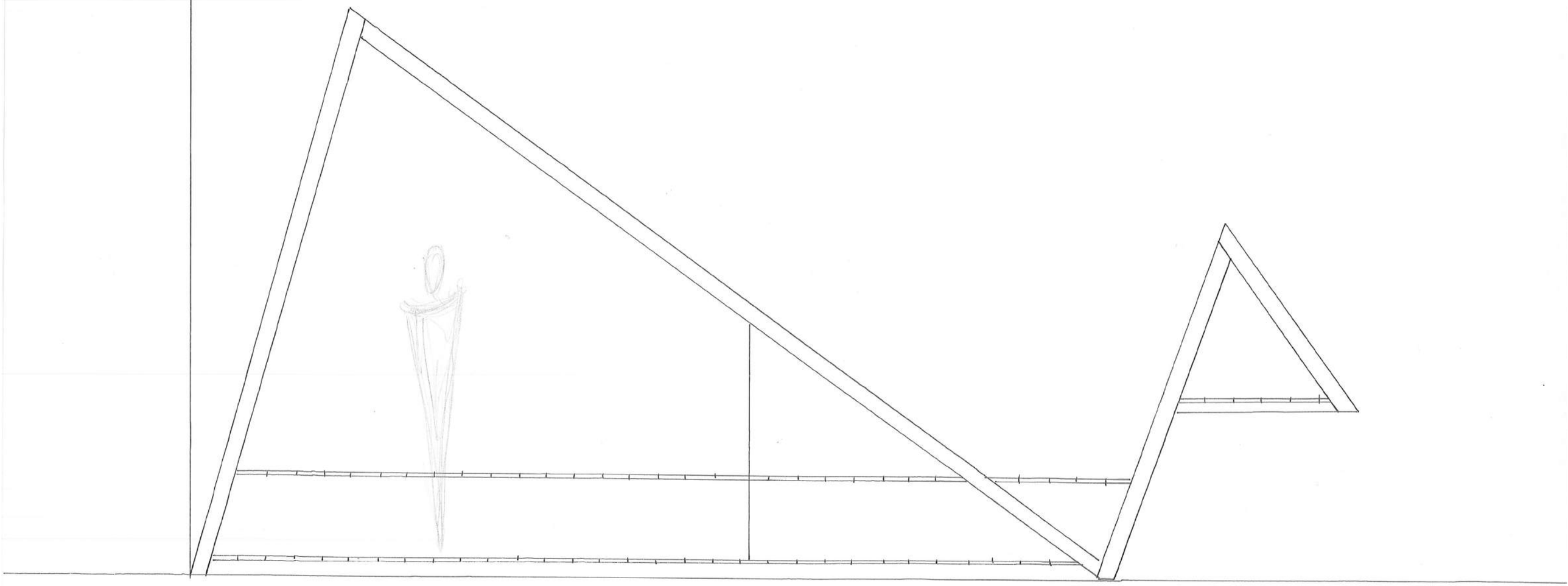
ELEVATION

1/50

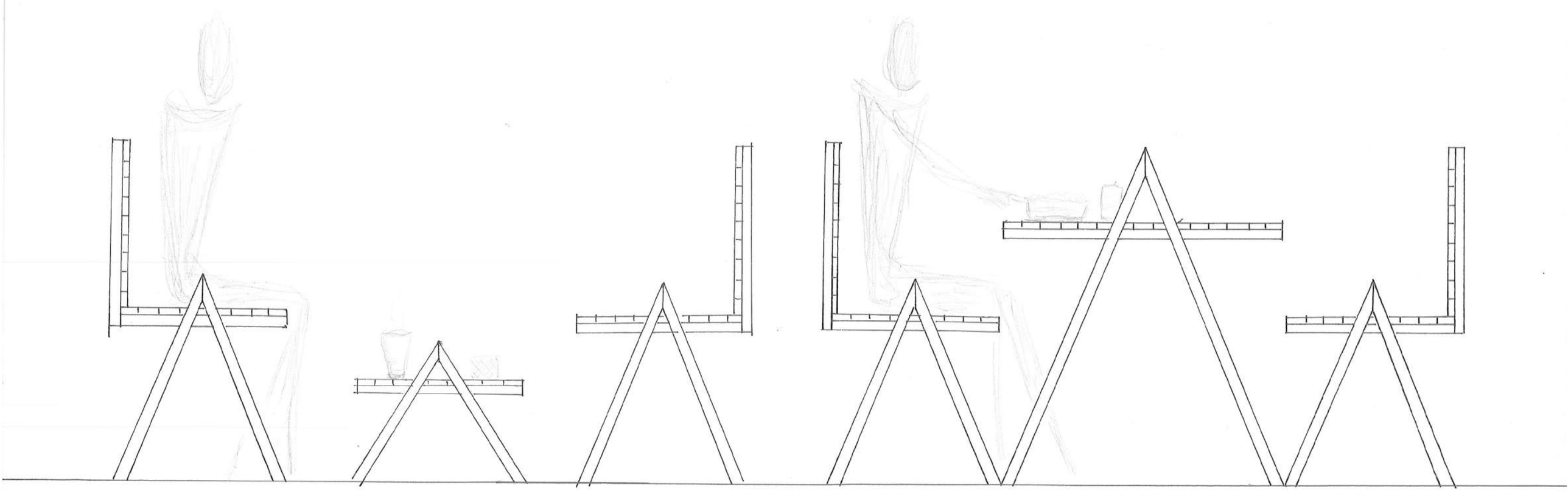


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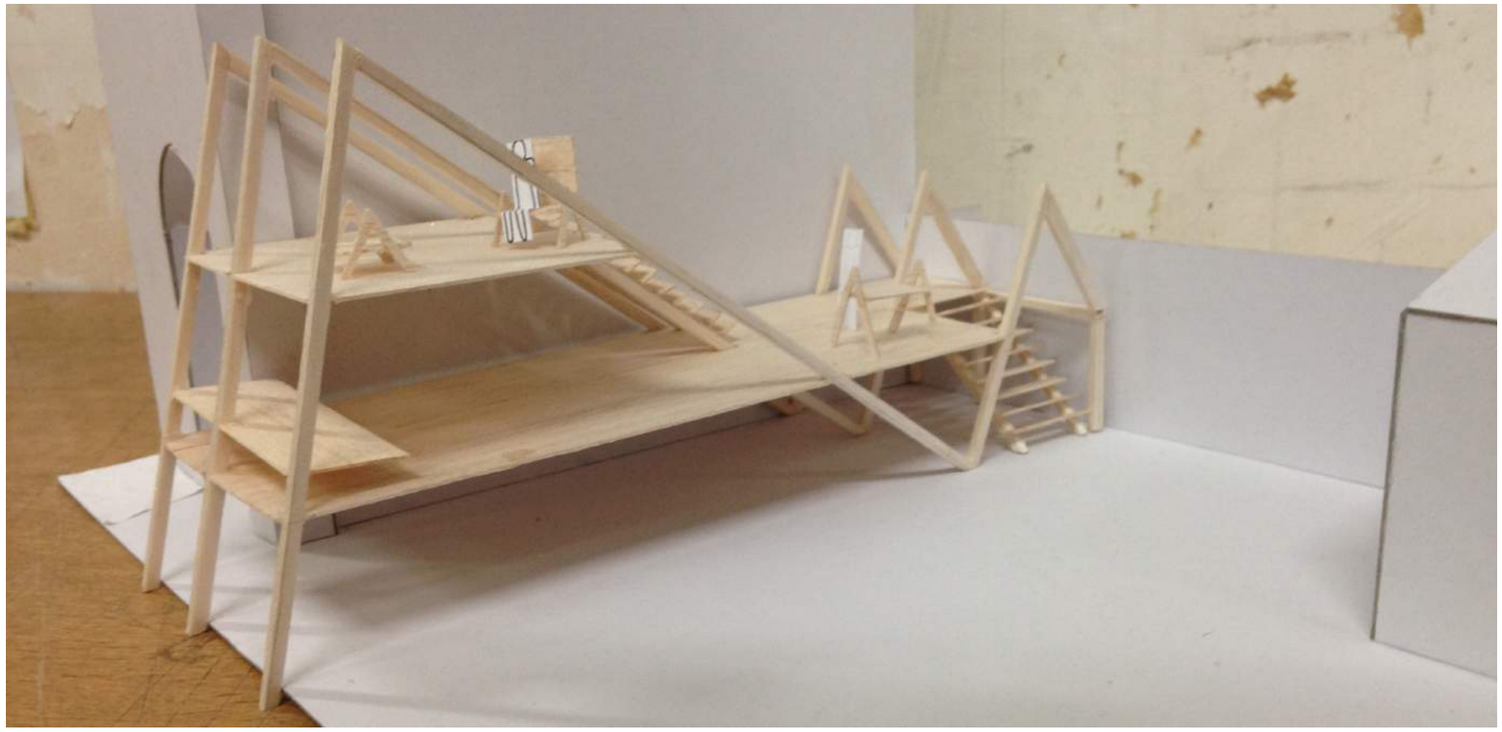
ABRIS DU GARDIEN 1/20

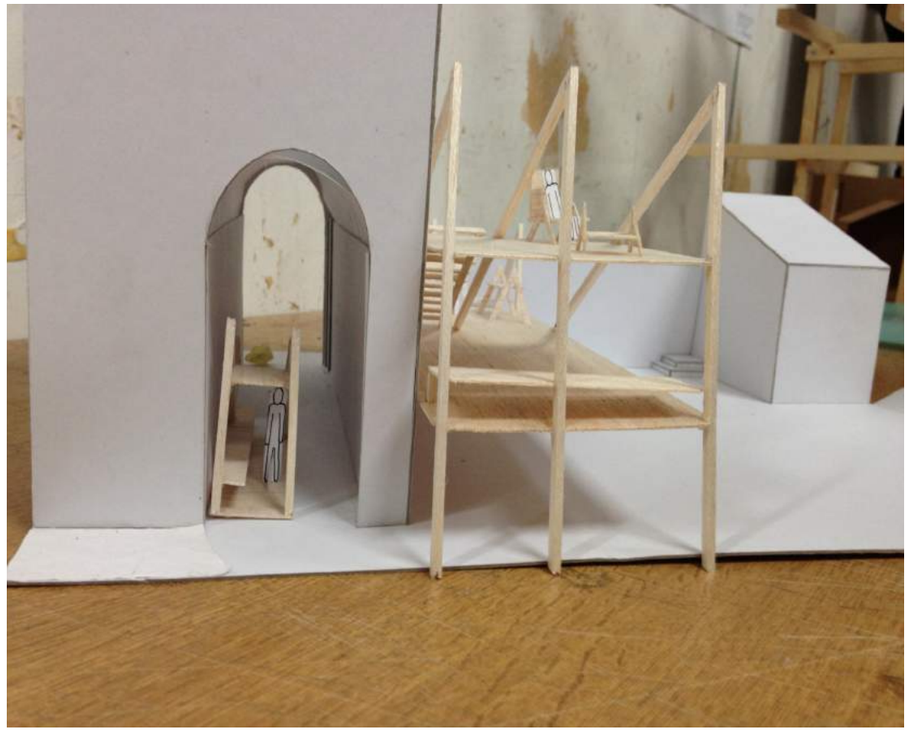


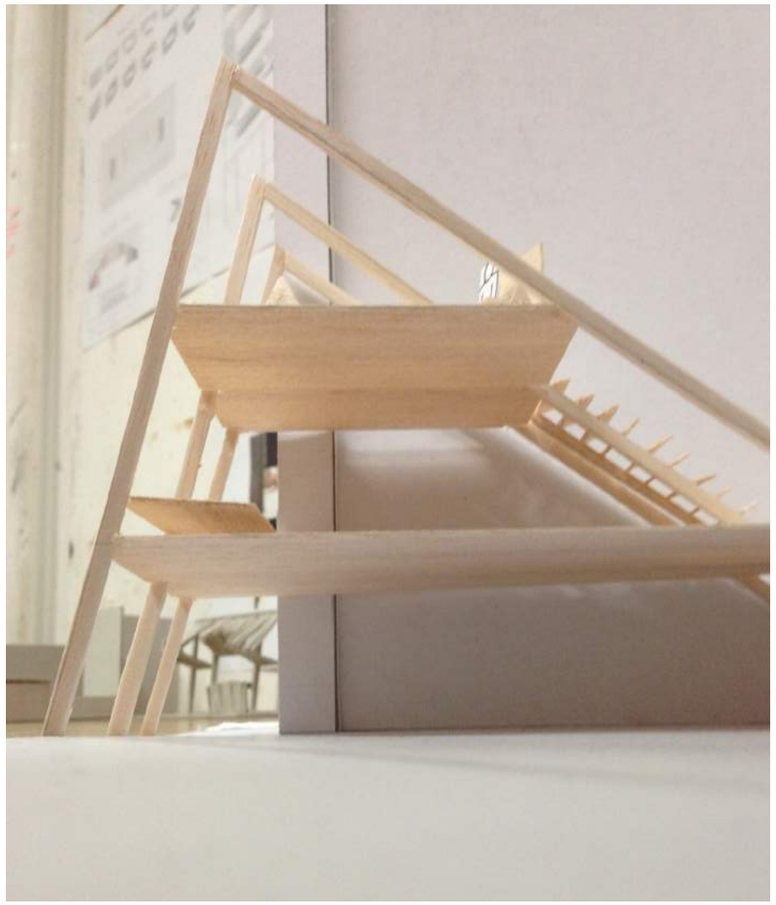
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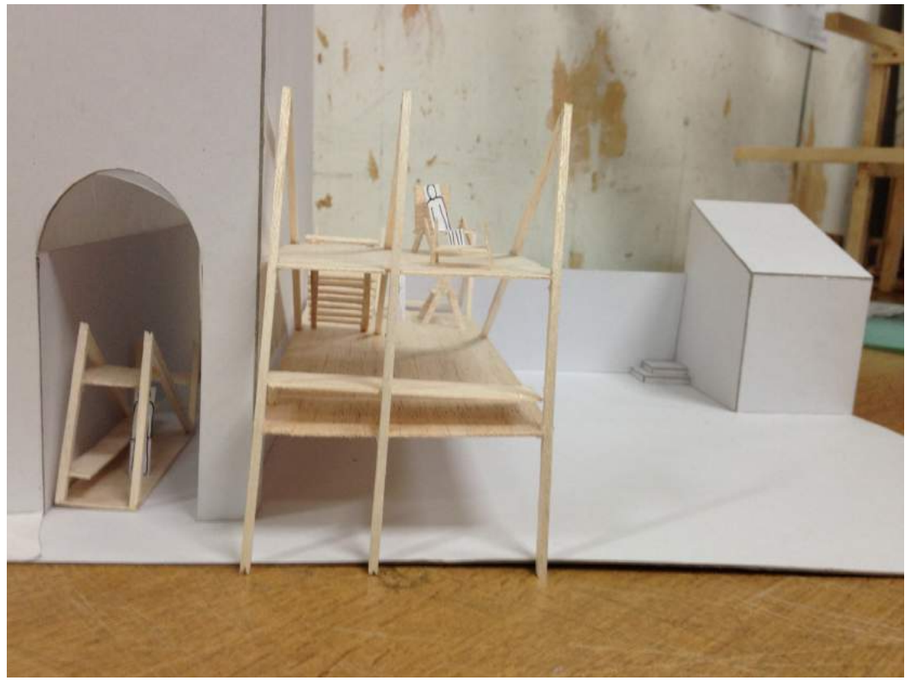
LES TRIASSES











Photos de maquettes

échelle 1/50



ONDULATION

SCULPTURE TECTONIQUE | PHASE AVP | MARS 2016
JOHN STENZEL & ANNELOT WARTNA

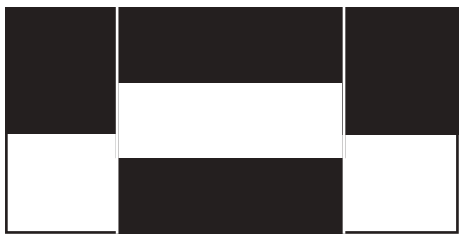
APPARANCES



BRISE-SOLEIL



BRISE-VENT



BAR

SCHÉMA DE FLUX

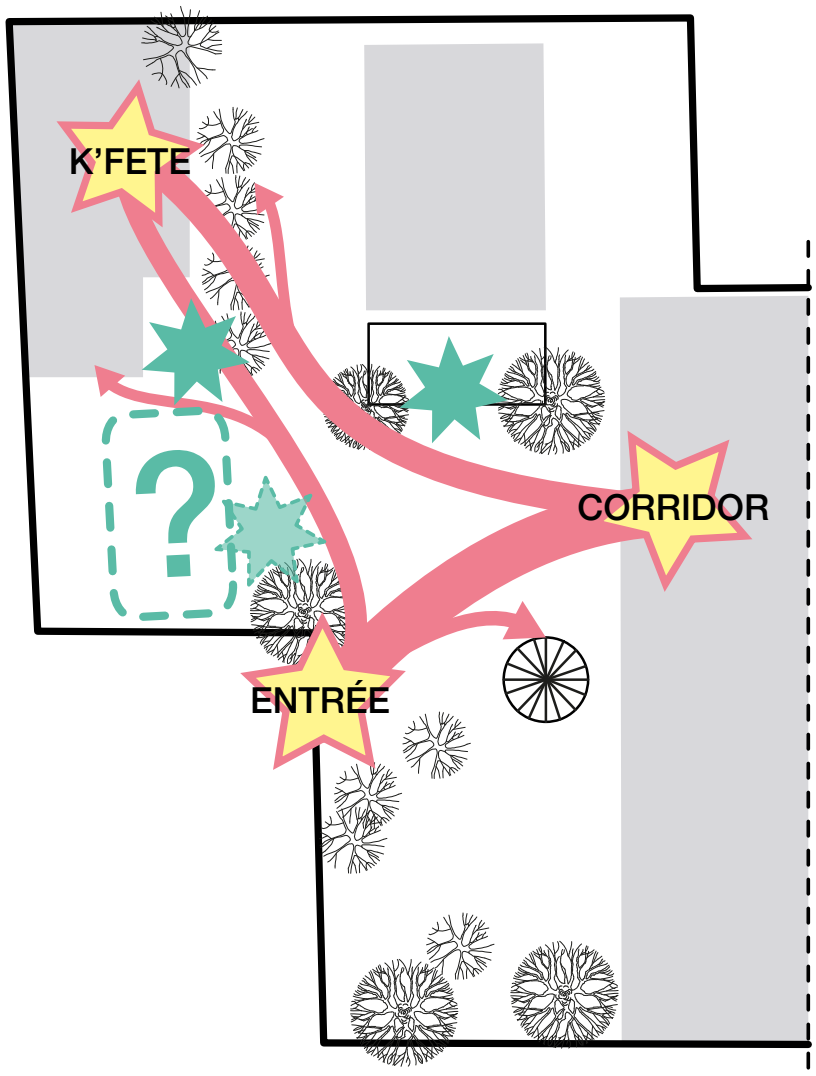
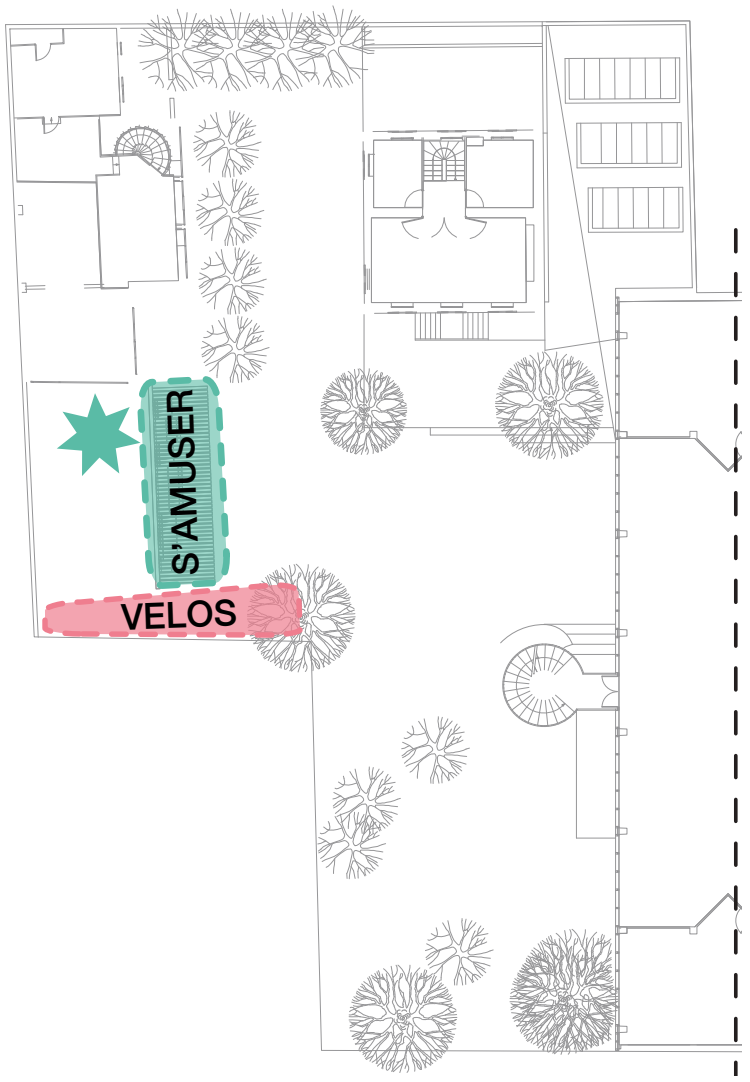
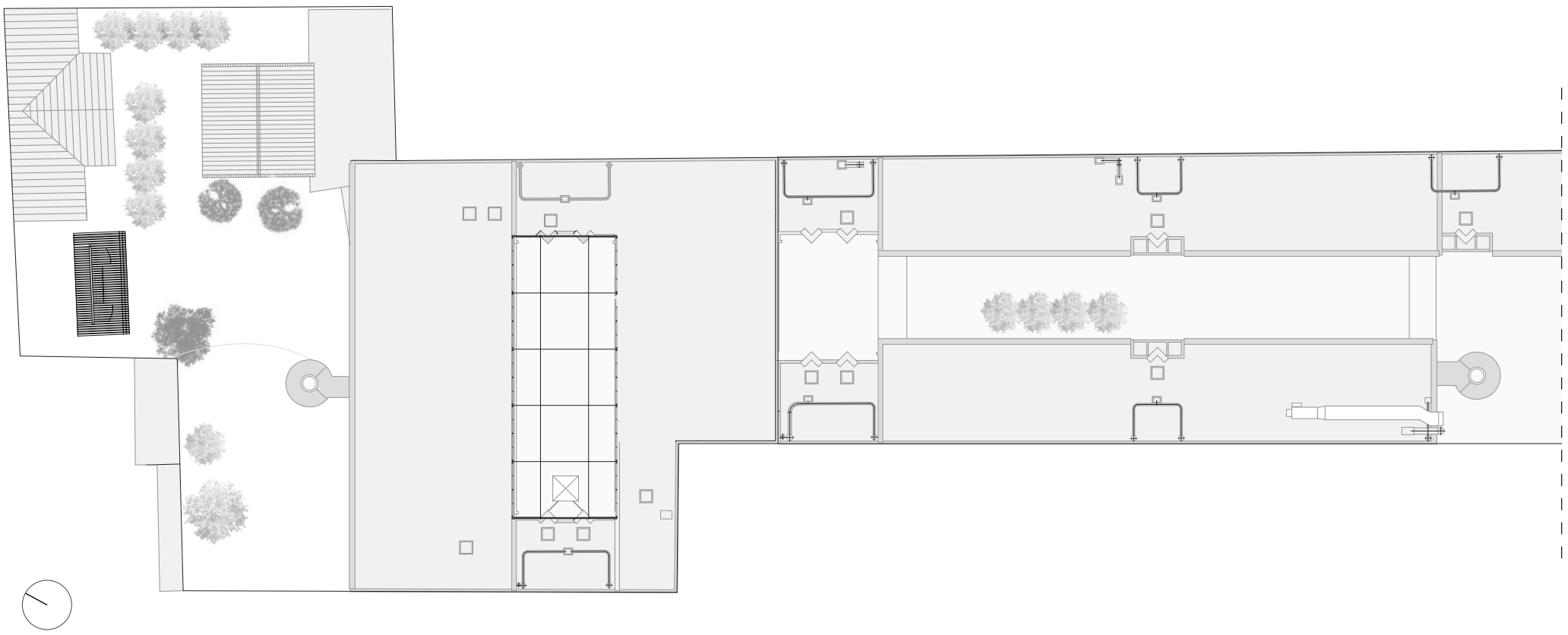


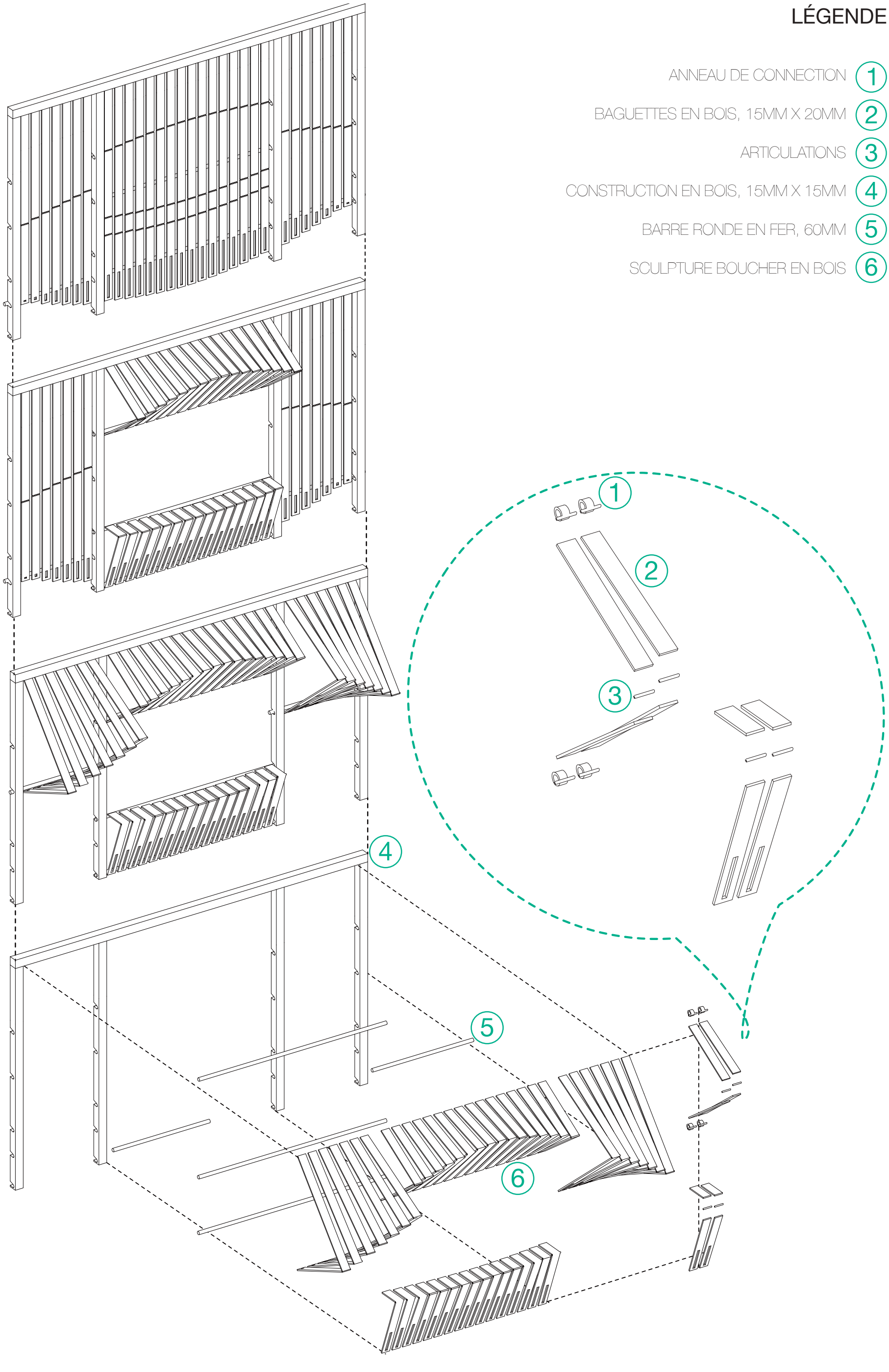
SCHÉMA D'USAGE



PLAN MASSE 1:500



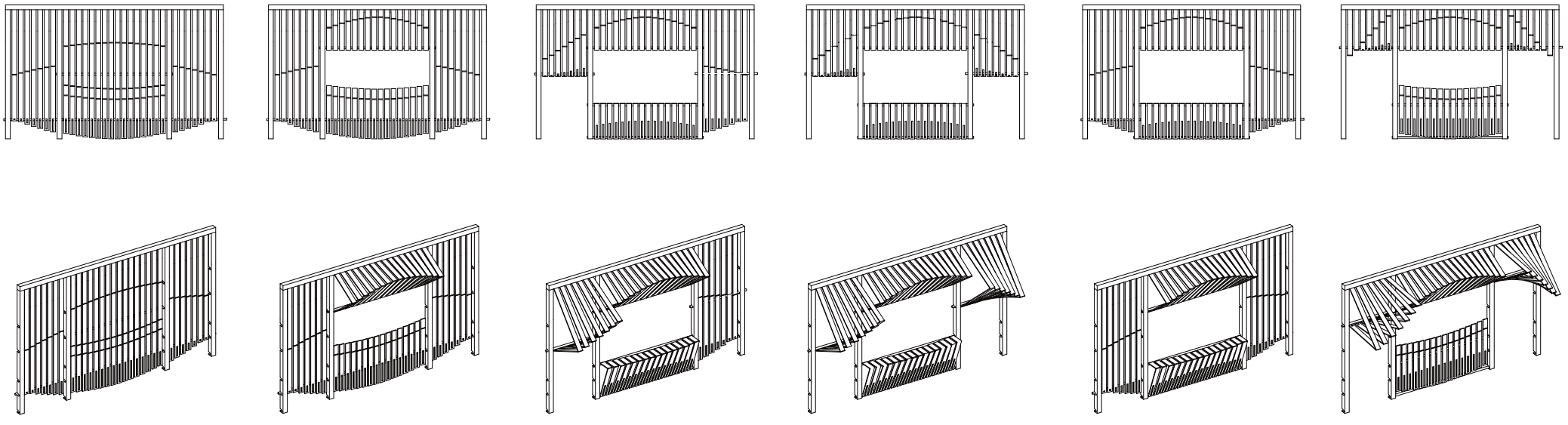
VUE EN ÉCLATÉ



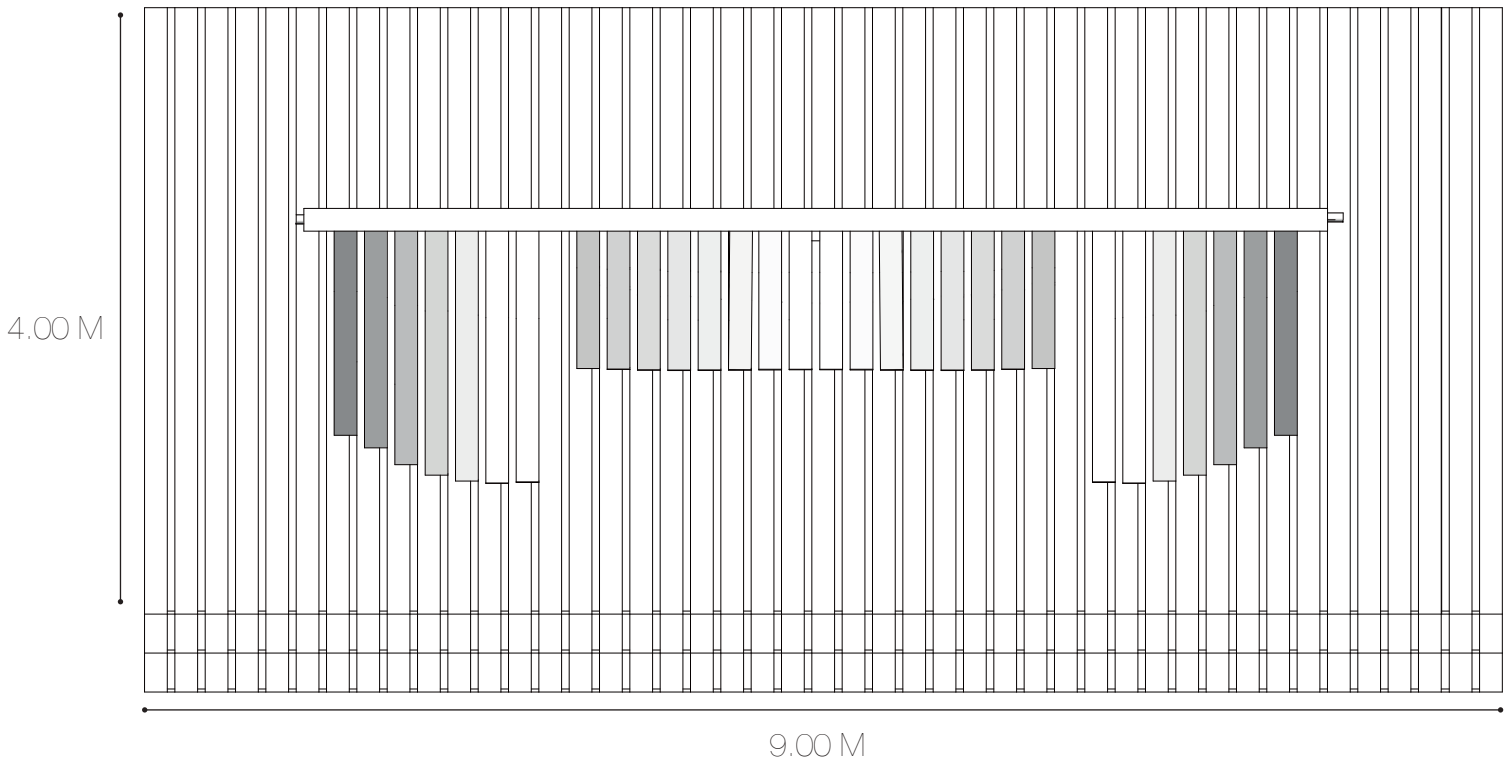
LÉGENDE

1. ANNEAU DE CONNECTION
2. BAGUETTES EN BOIS, 15MM X 20MM
3. ARTICULATIONS
4. CONSTRUCTION EN BOIS, 15MM X 15MM
5. BARRE RONDE EN FER, 60MM
6. SCULPTURE BOUCHER EN BOIS

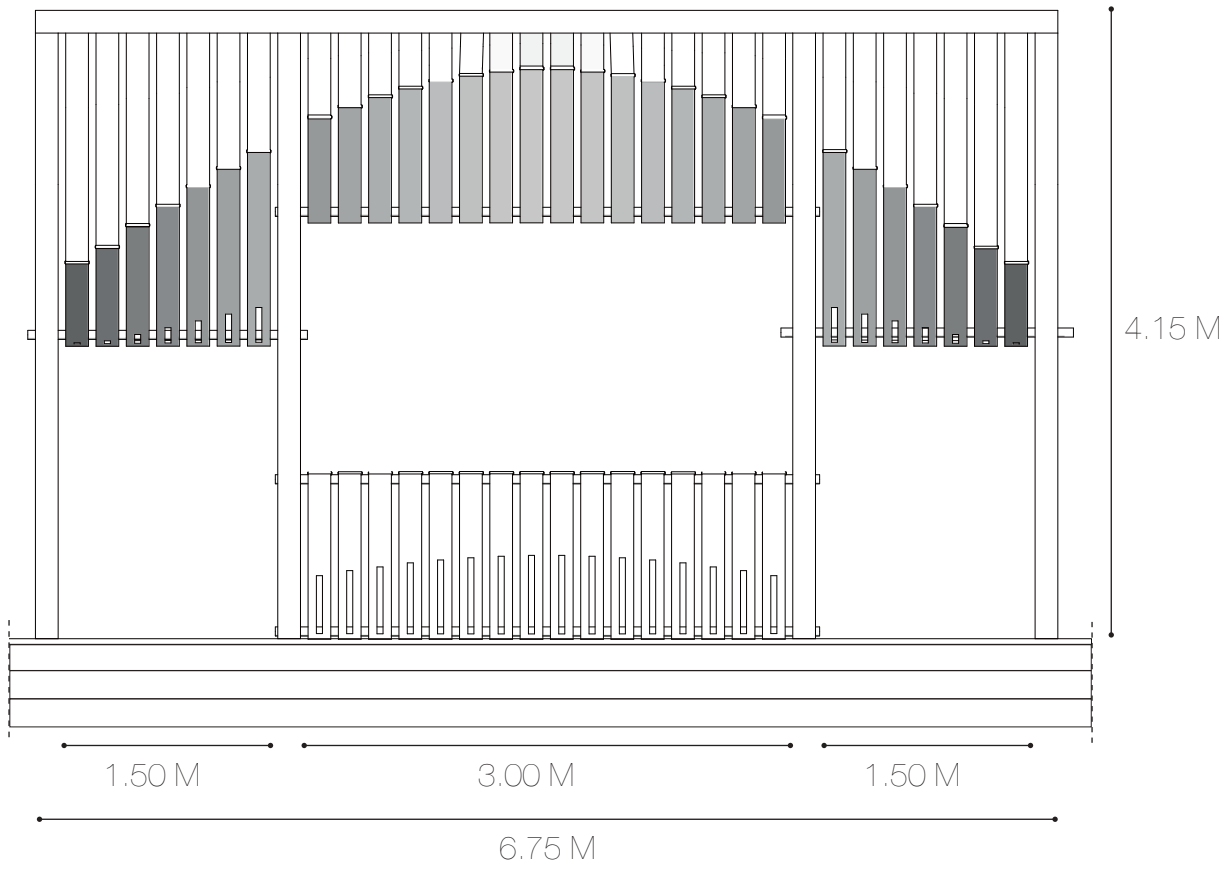
PRINCIPE DE MOBIIITÉ



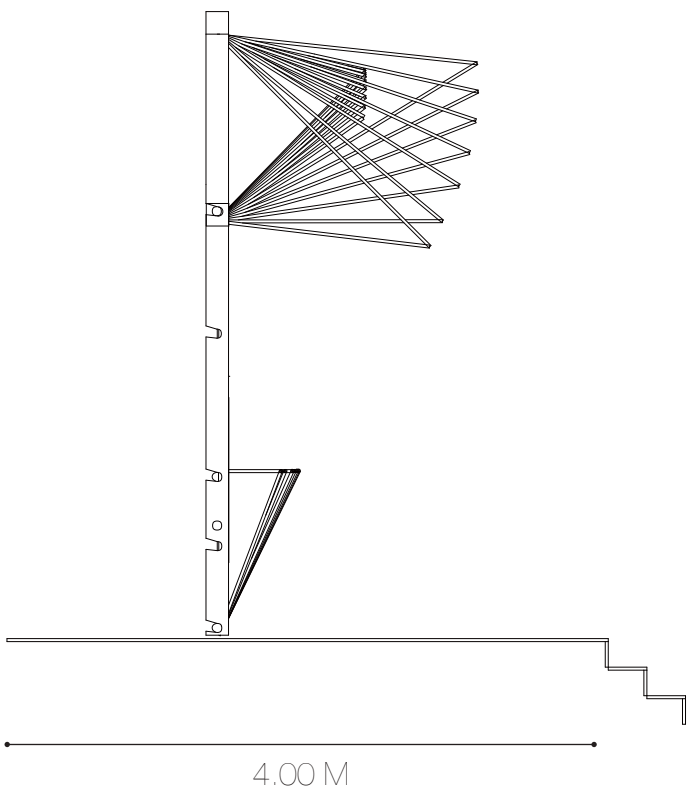
PLAN 1:50



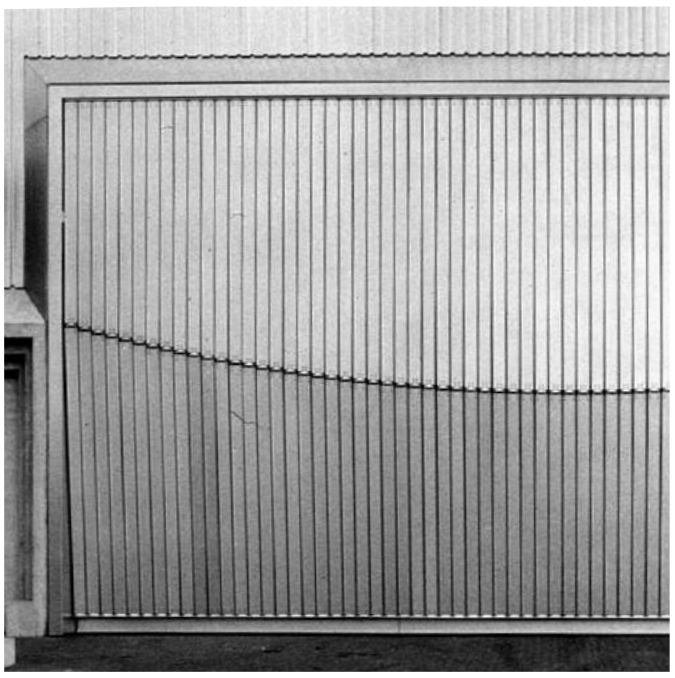
FAÇADE 1:50



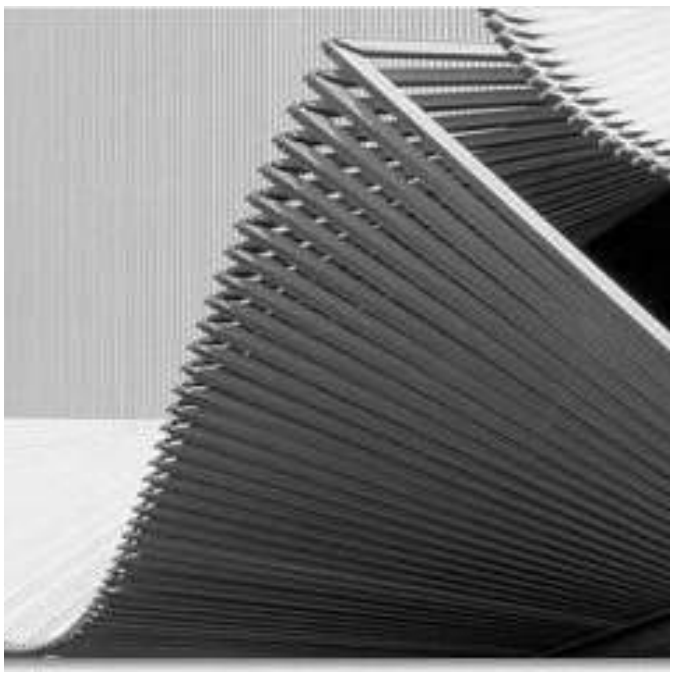
COUPE 1:50



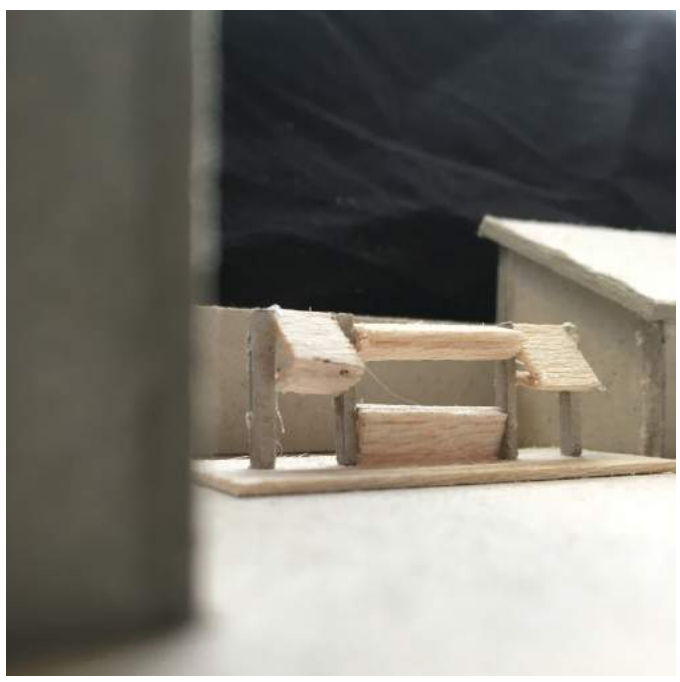
RÉFÉRENCES



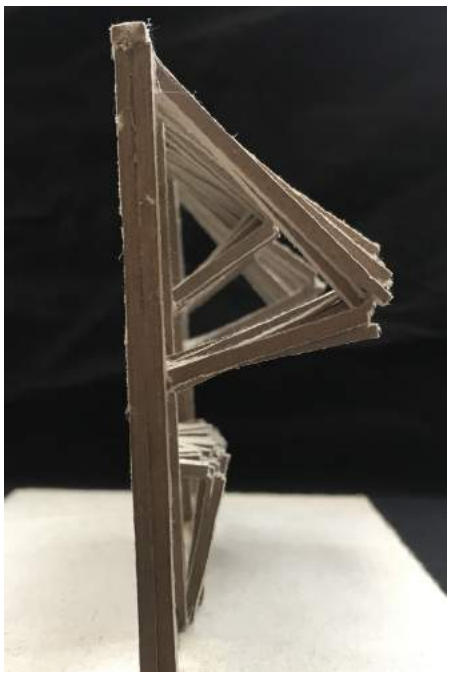




PHOTOS DE LA MAQUETTE

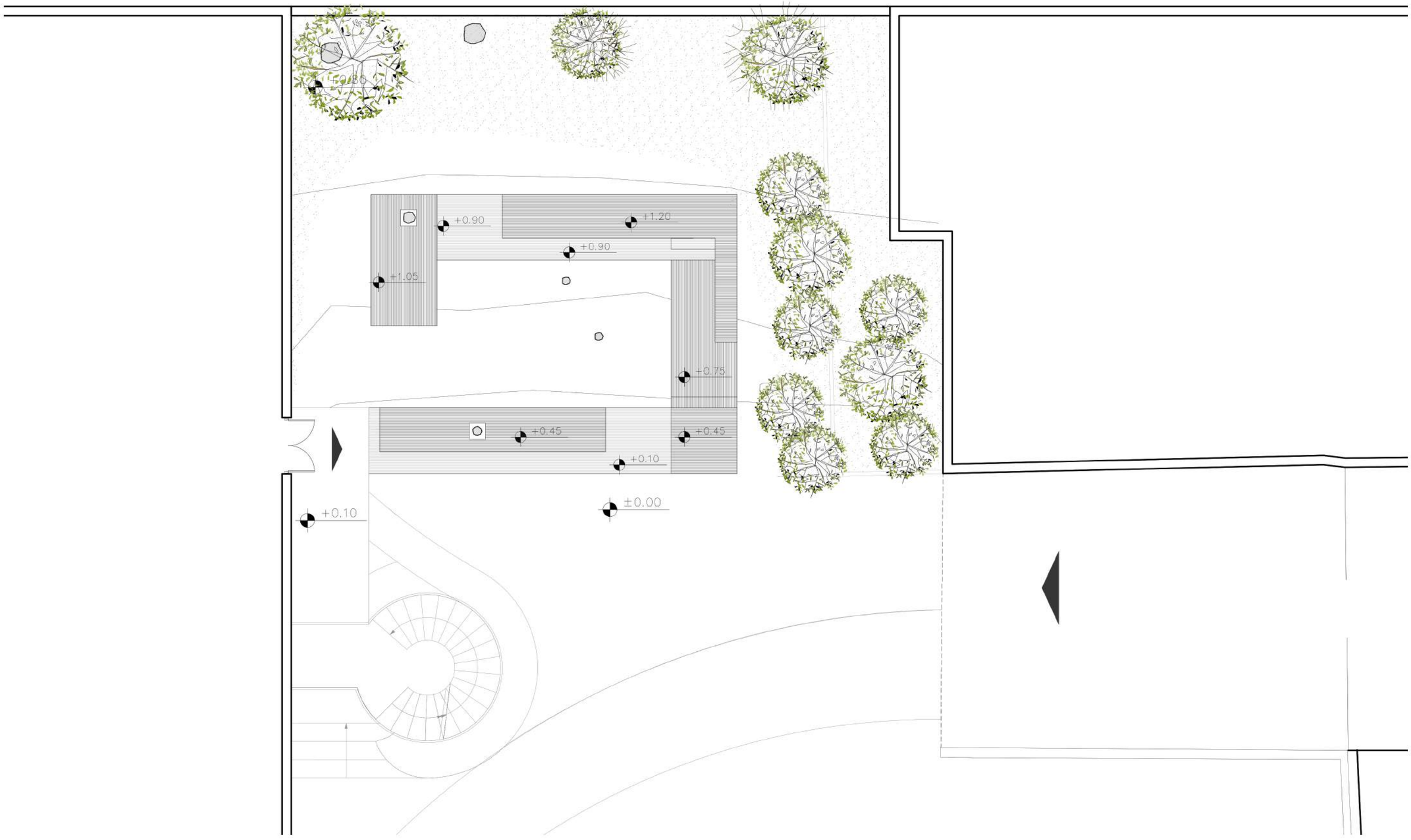




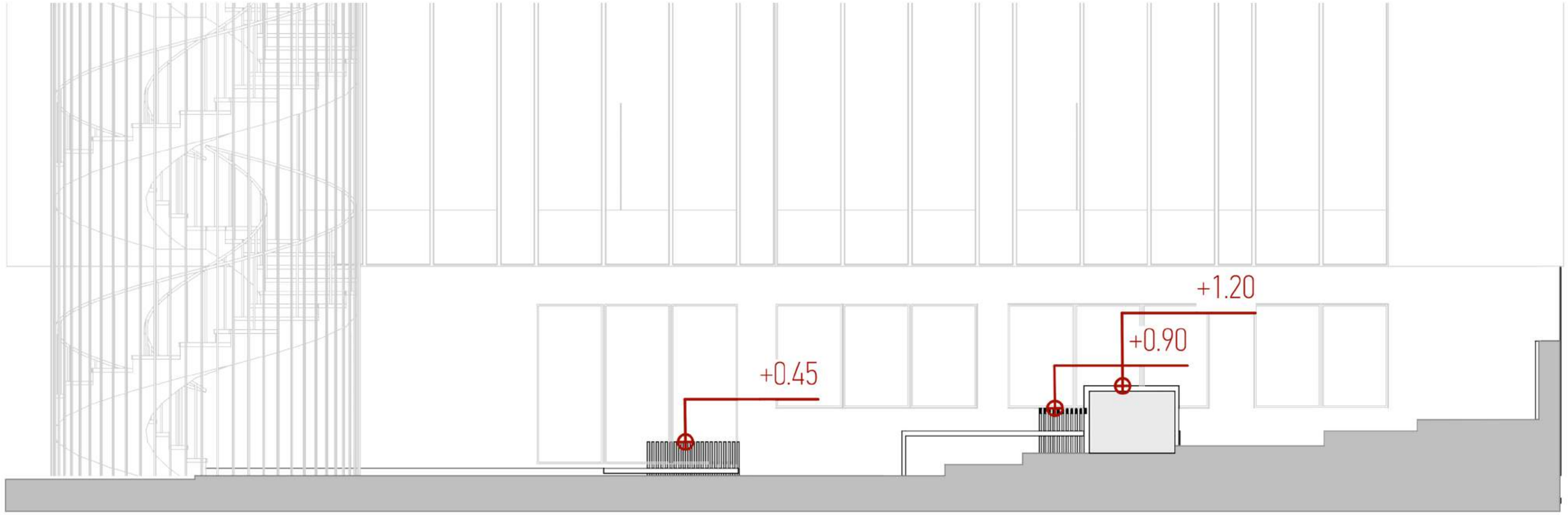


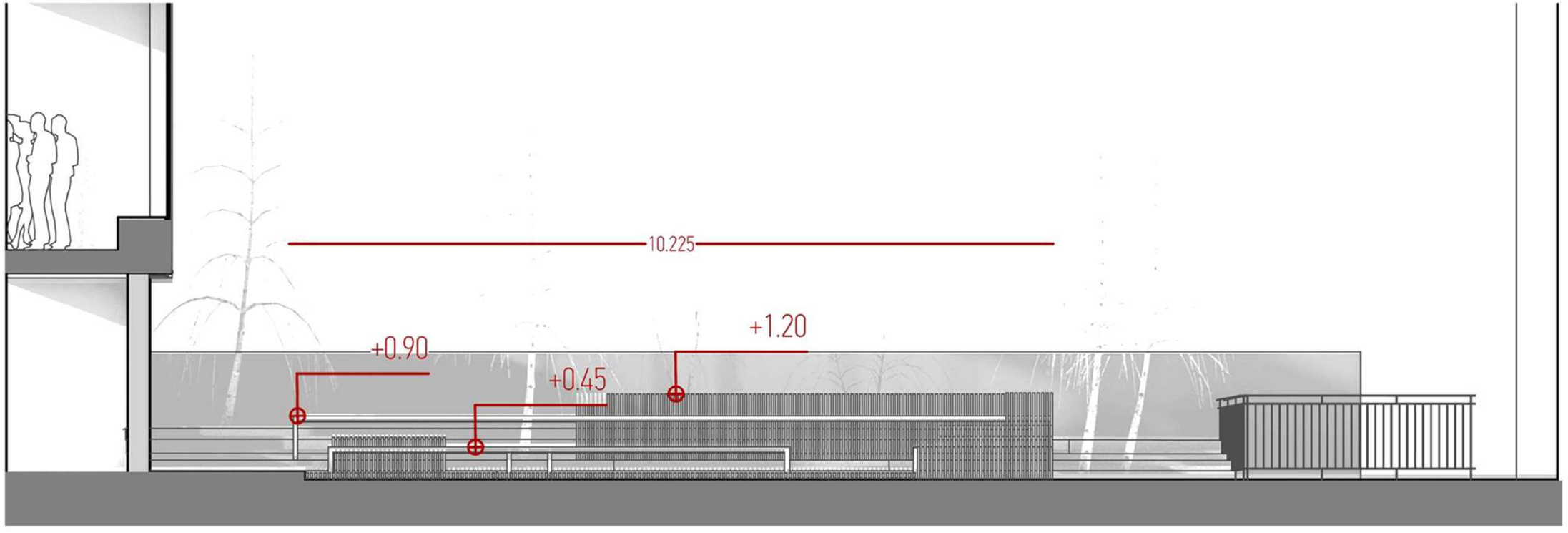


CT 802 SCULPTURE TECTONIQUE | R. ARLOT, M. LEYRAL |
Margarita ZAKYNTHINOU-XANTHI & Pavlina GOUMENAKI | SEMESTER 8 | 30-03-2016

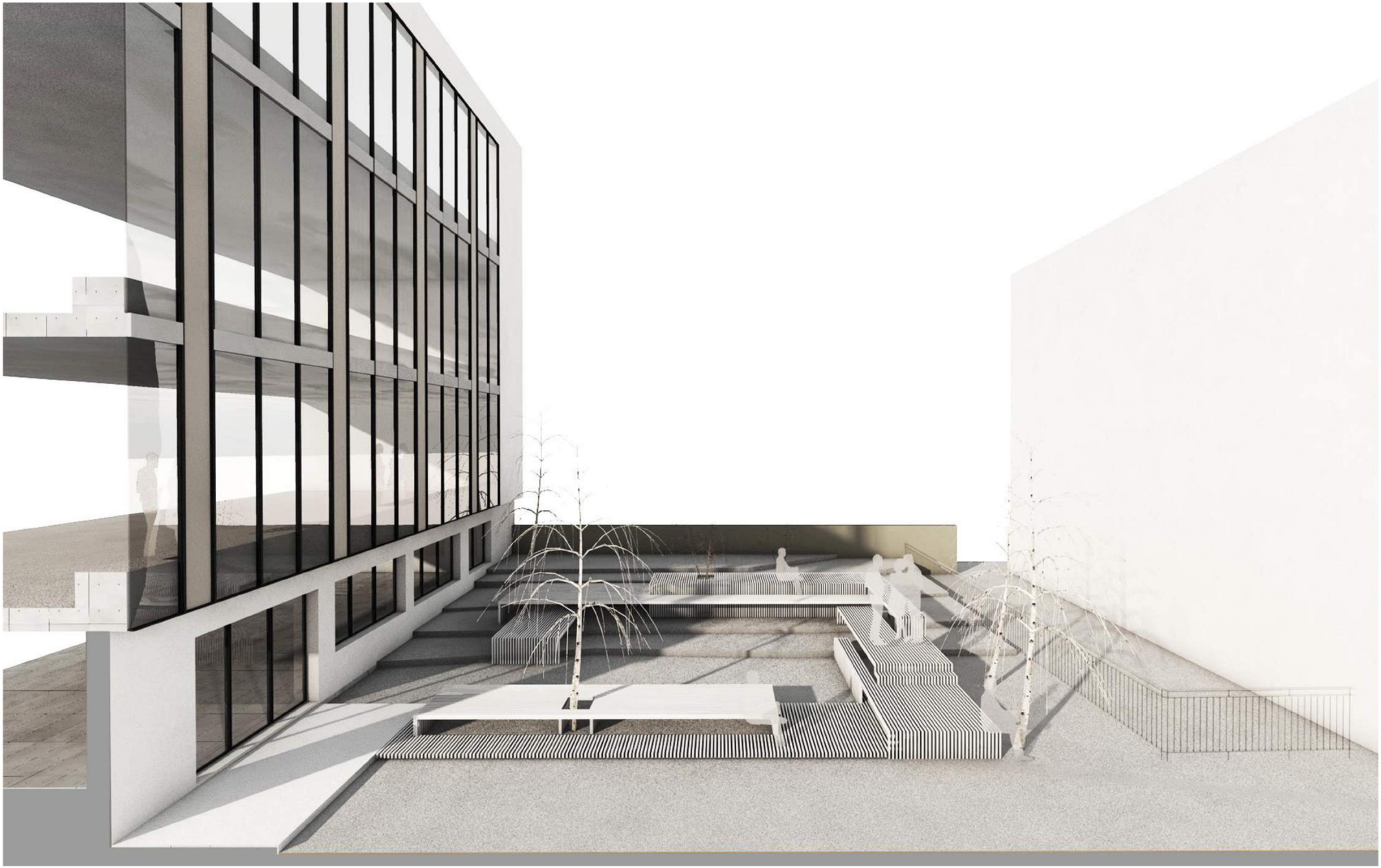


PLAN GÉNÉRALE ÉCHELLE 1/100





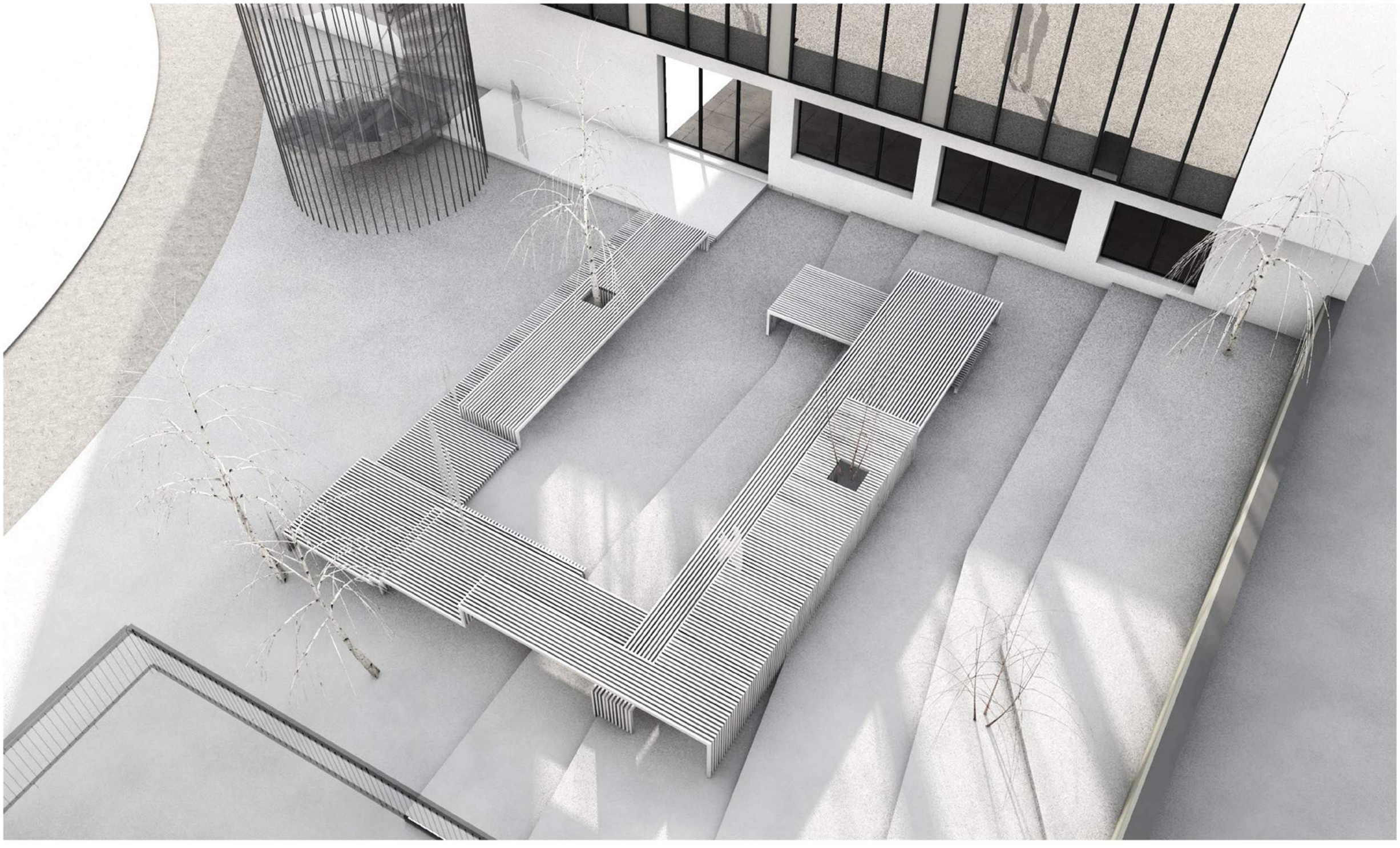
FACADES



PERSPECTIVE

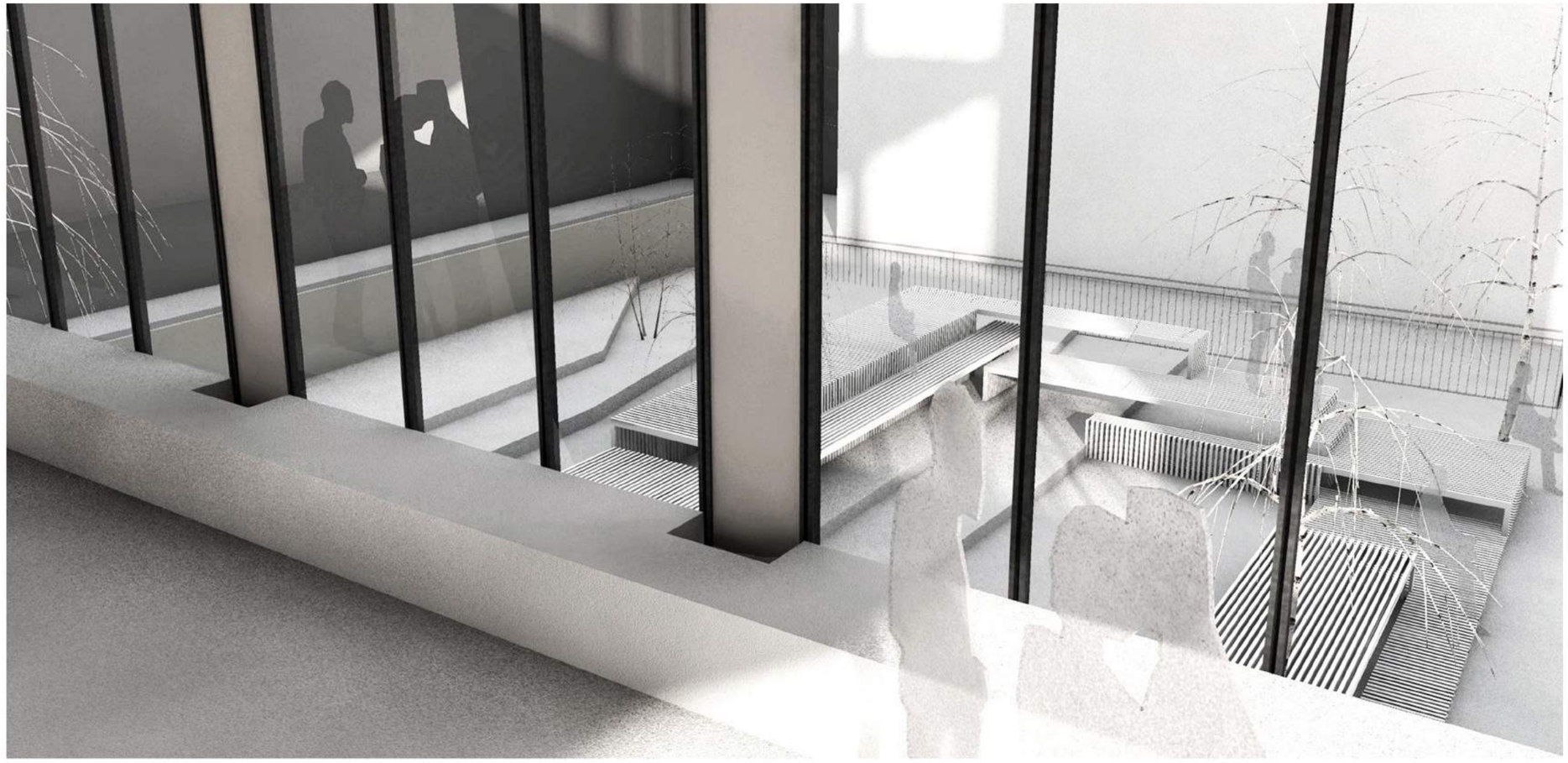


PERSPECTIVE



PERSPECTIVE



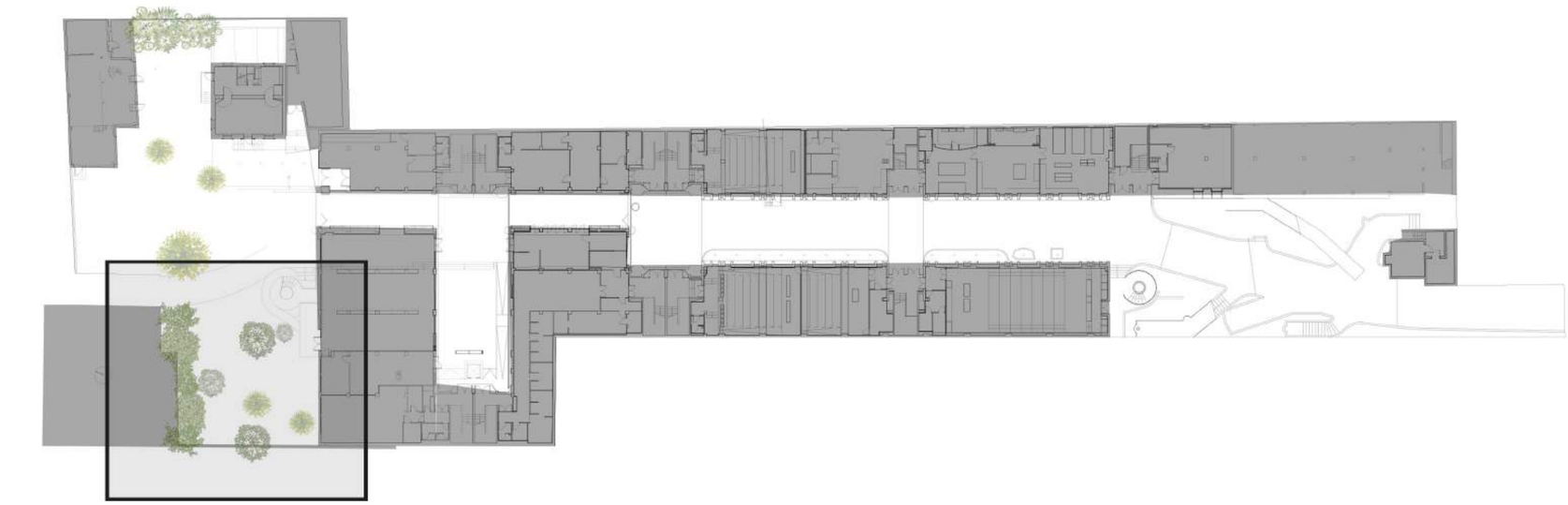


PERSPECTIVES

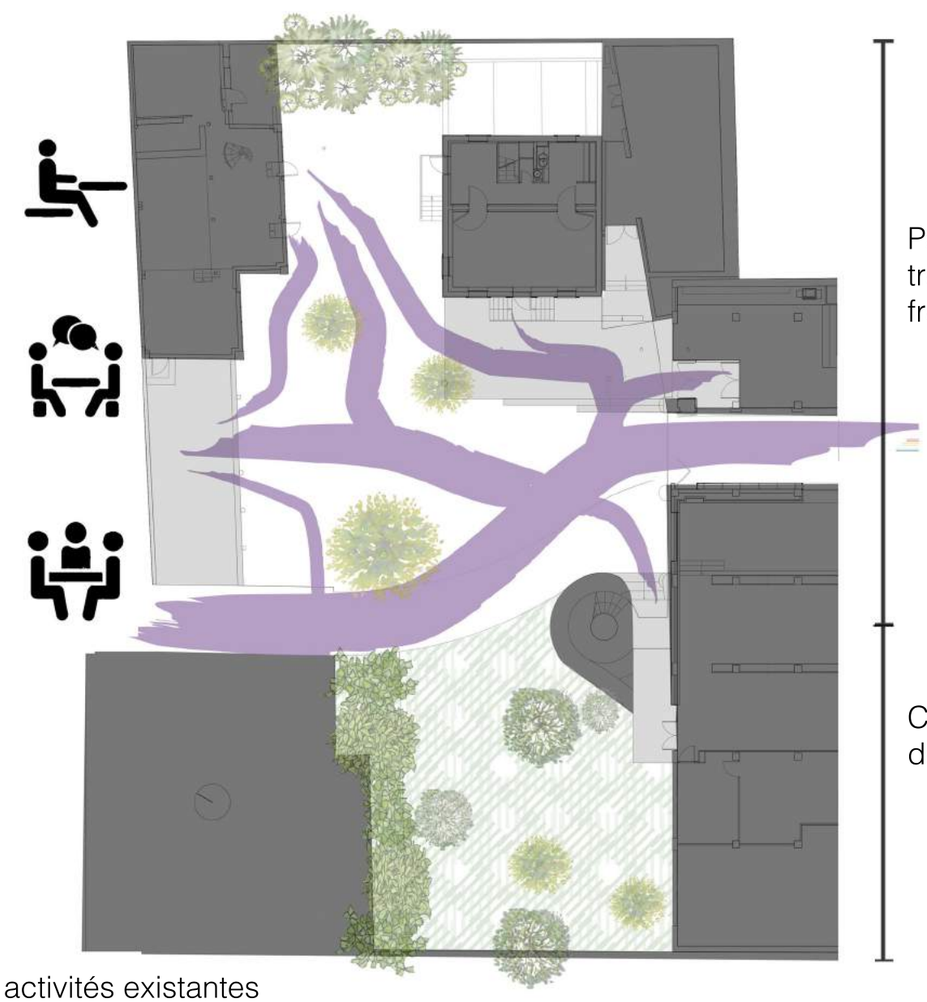
CT 802 SCULPTURE TECTONIQUE | R. ARLOT, M. LEYRAL |
Margarita ZAKYNTHINOU-XANTHI & Pavlina GOUMENAKI | SEMESTER 8 | 30-03-2016



PERSPECTIVE



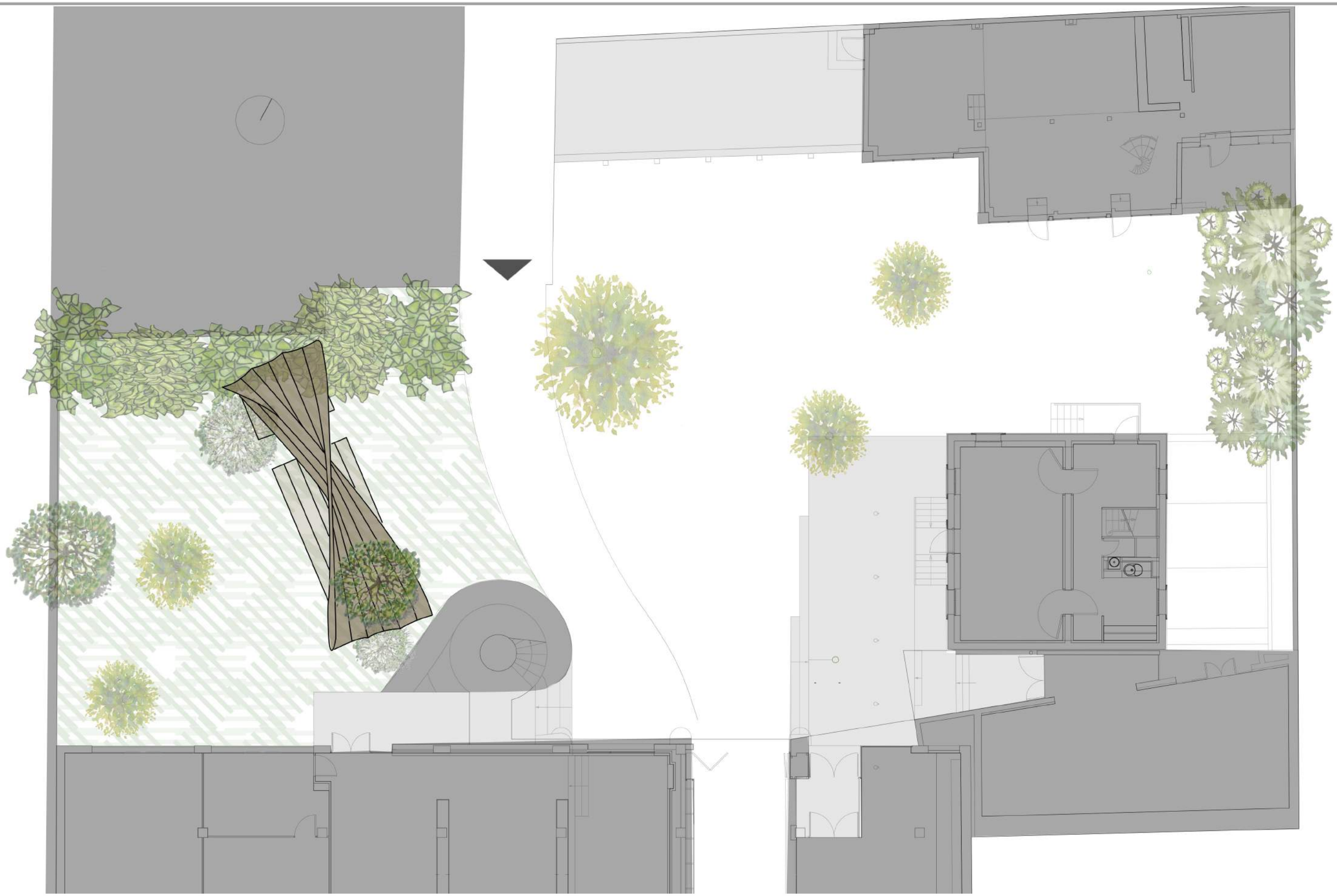
Plan Général



Flux et activités existantes

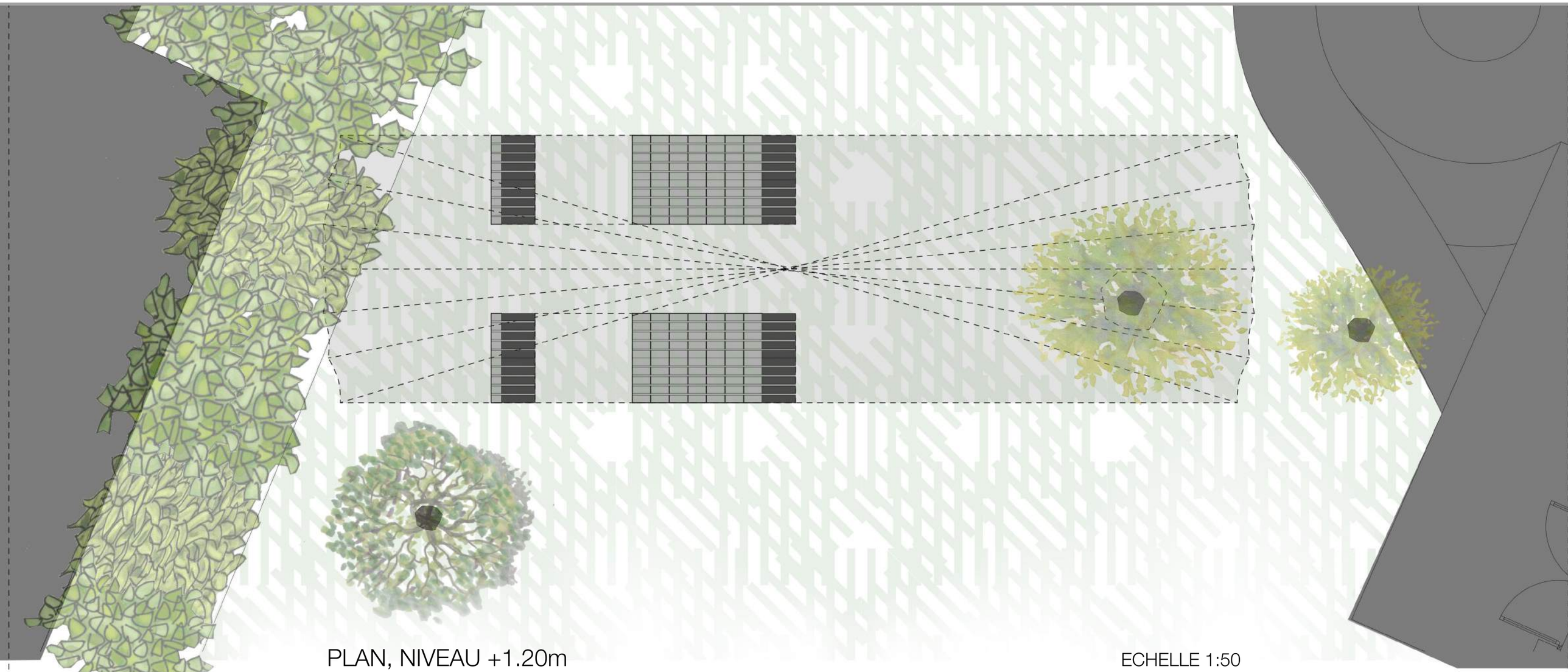


Extension des flux et des usages dans la cour



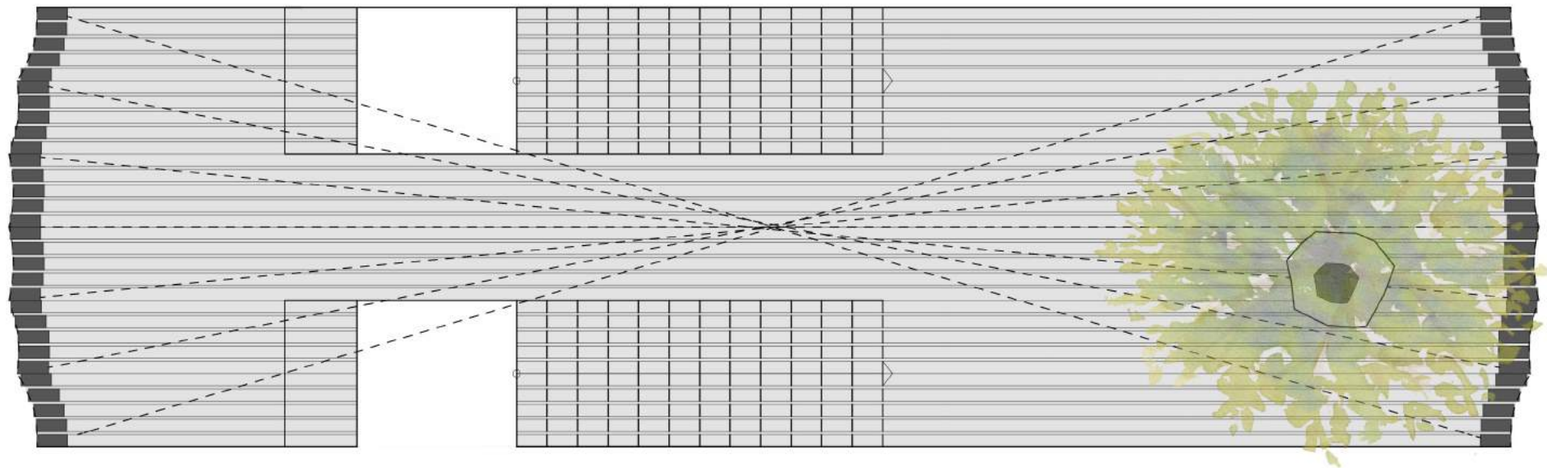
PLAN MASSE

ECHELLE 1:100



PLAN, NIVEAU +1.20m

ECHELLE 1:50

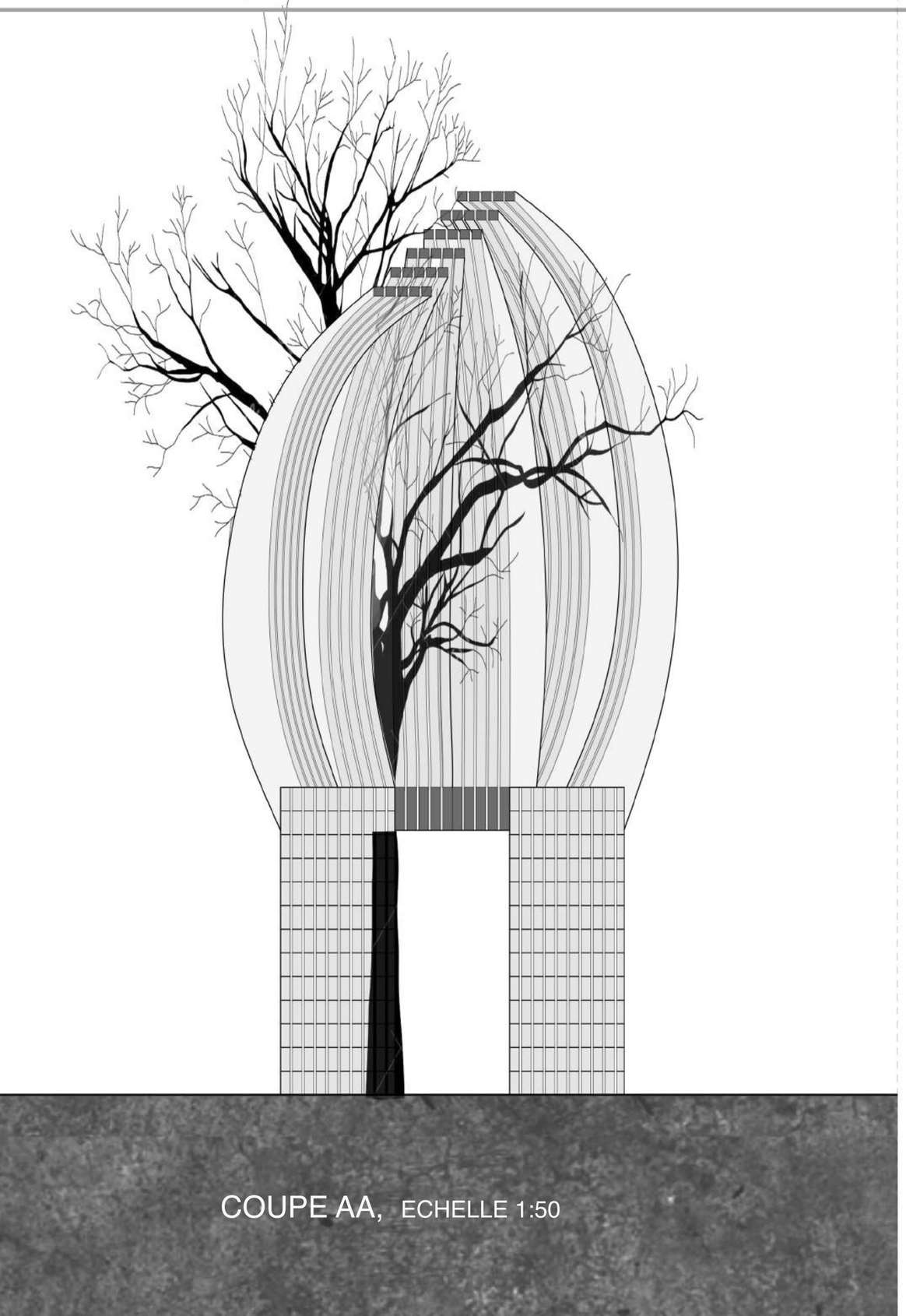


PLAN, NIVEAU +4.00m

ECHELLE 1:50

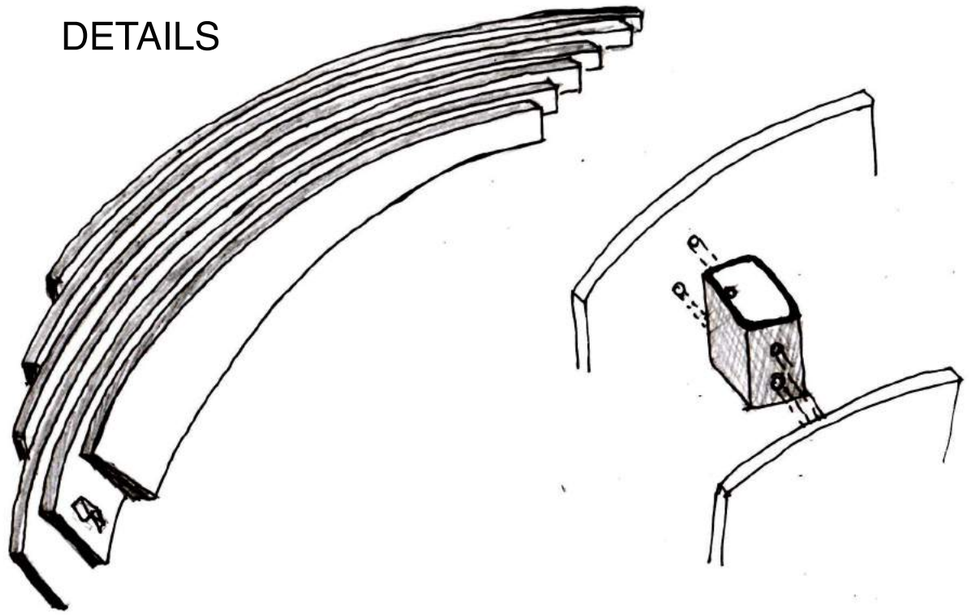


FAÇADE, ECHELLE 1:50



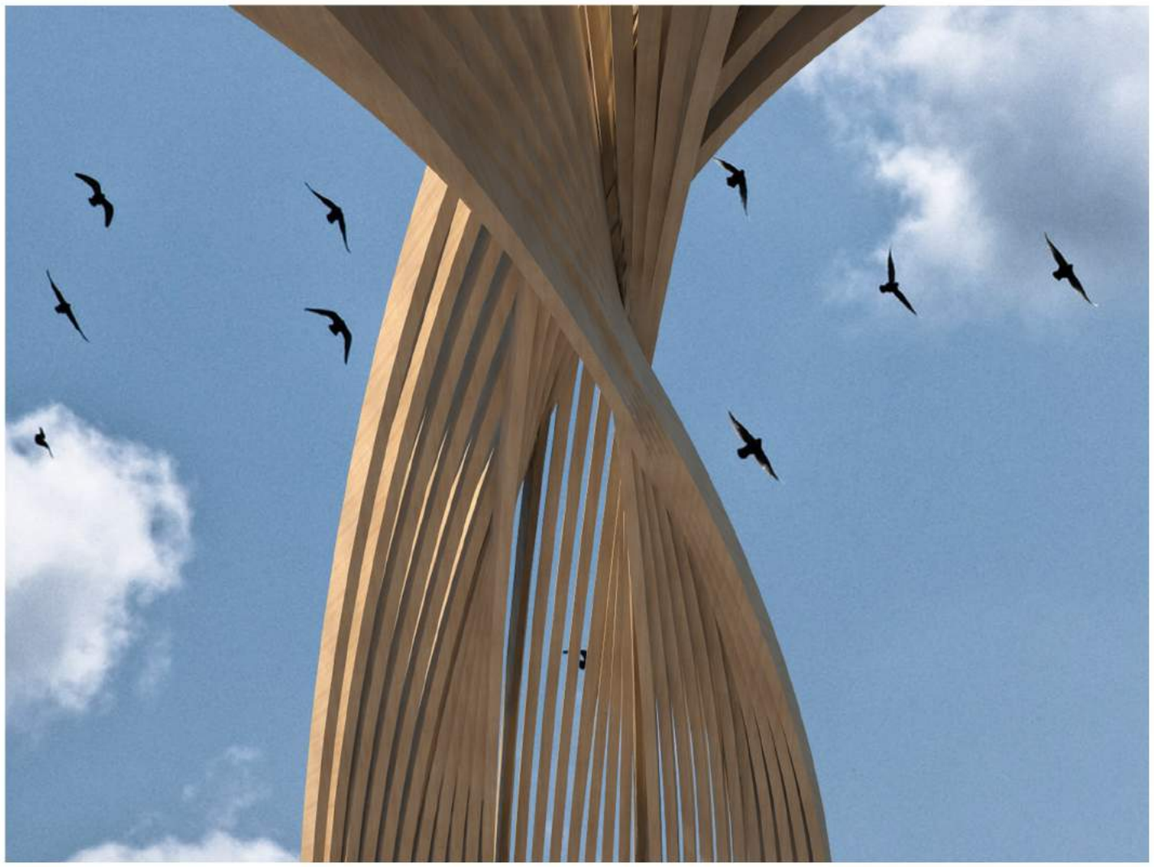
COUPE AA, ECHELLE 1:50

DETAILS

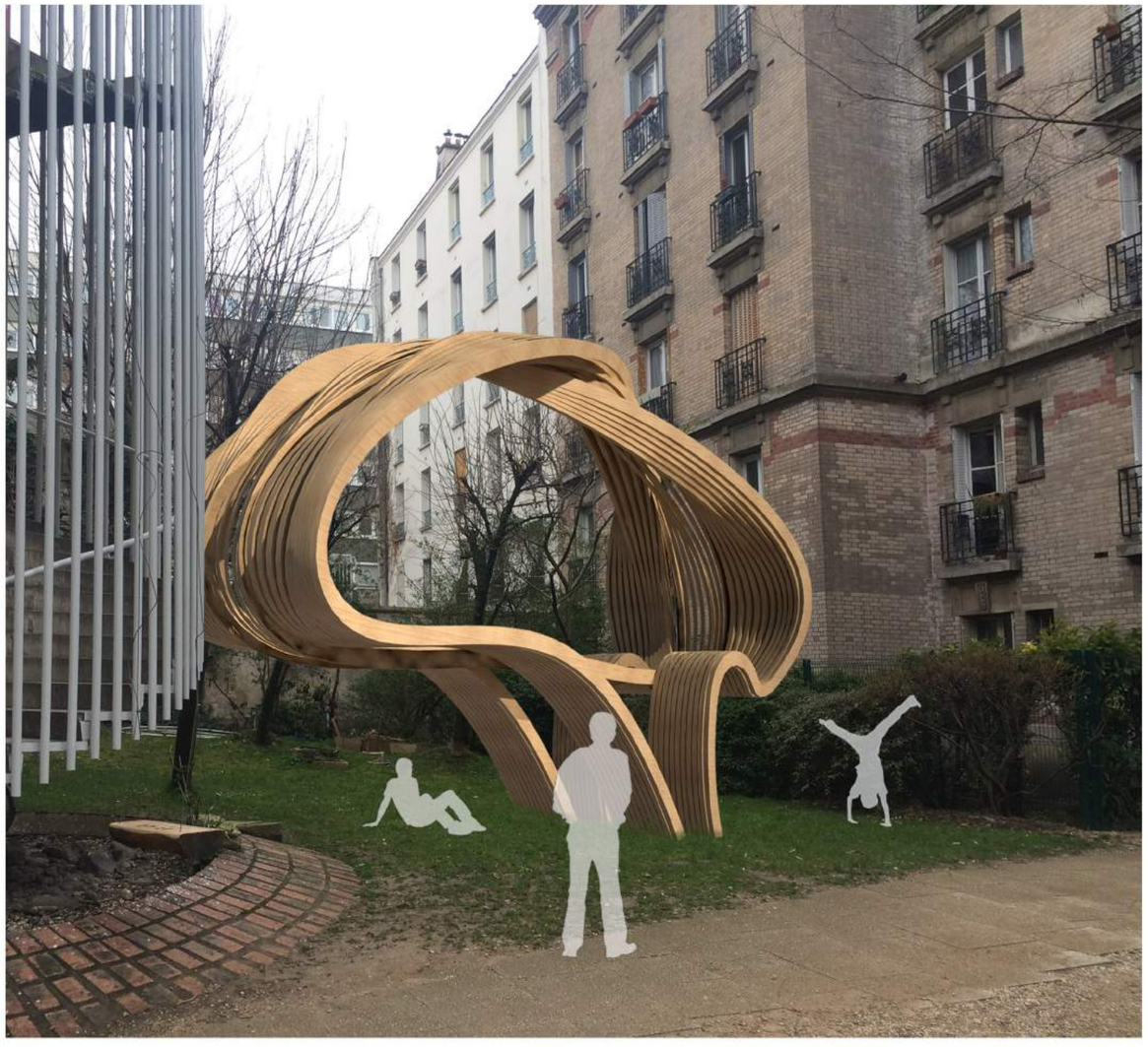


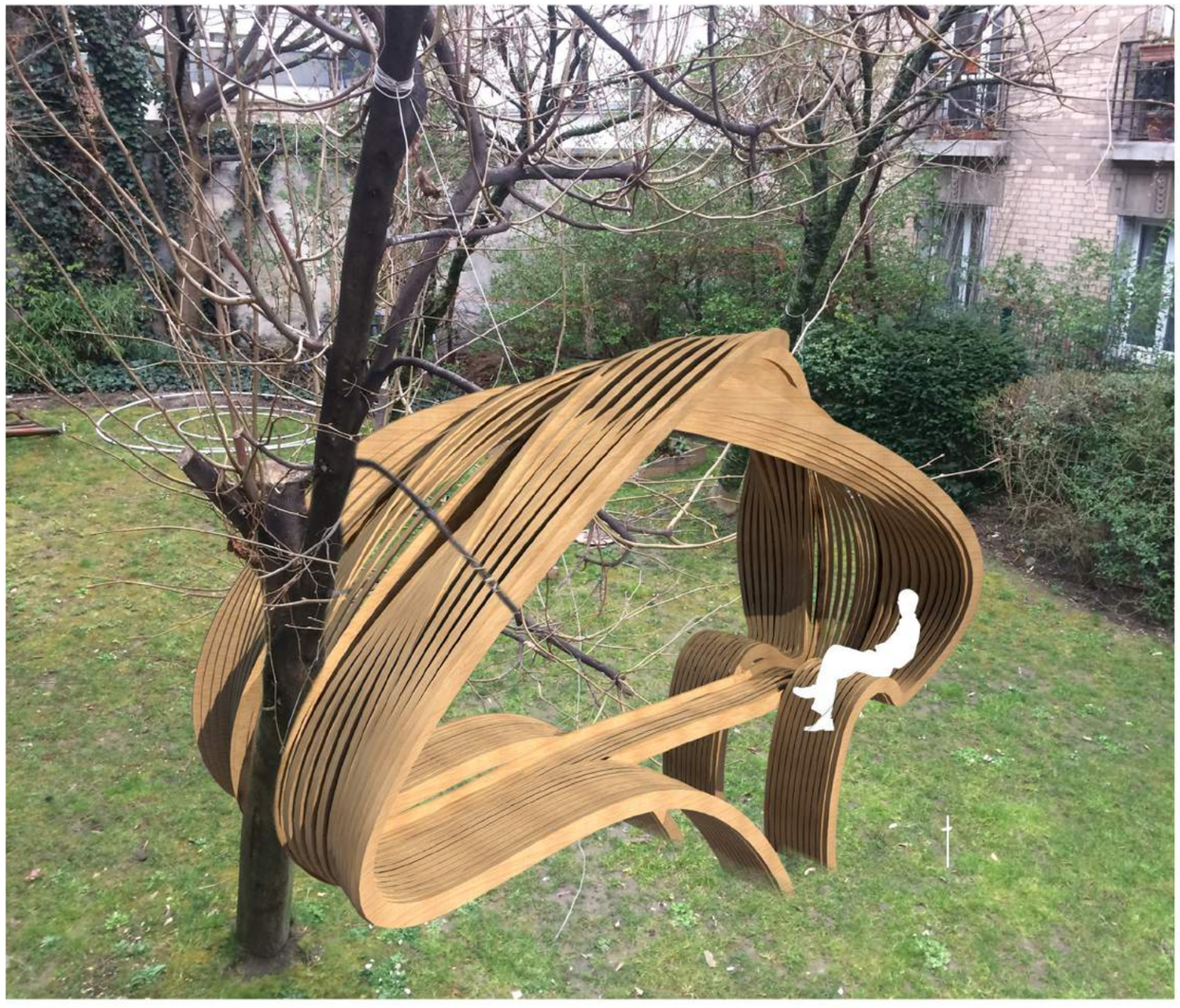
MAQUETTE





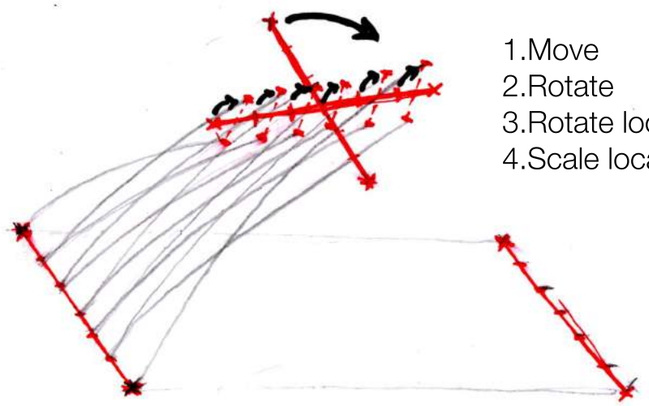




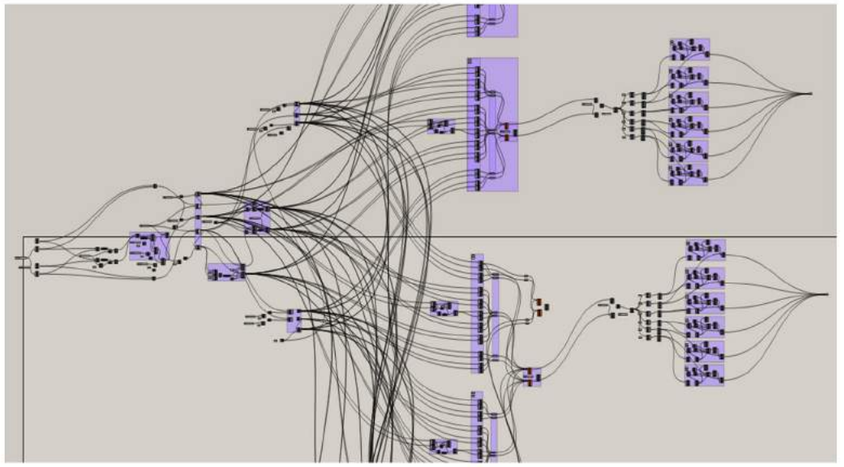


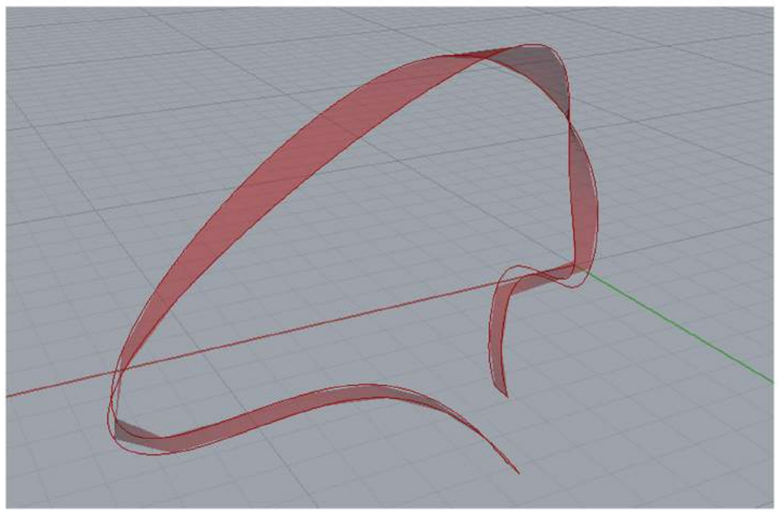
Le problème de la double courbure

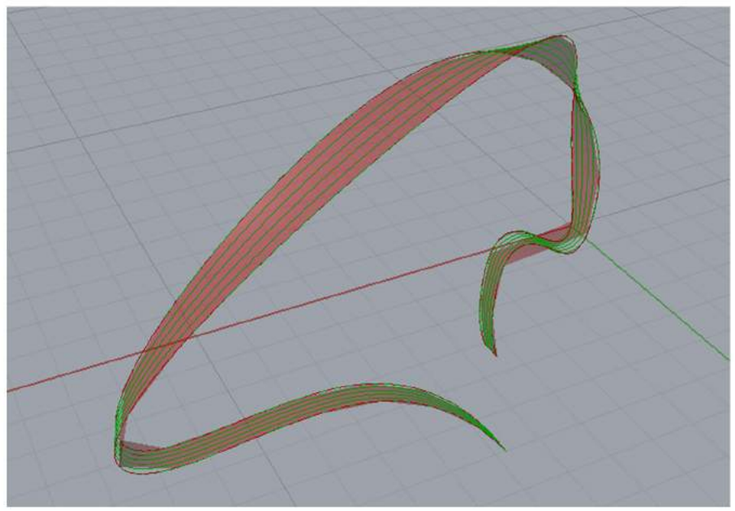
Définition géométrique de la forme

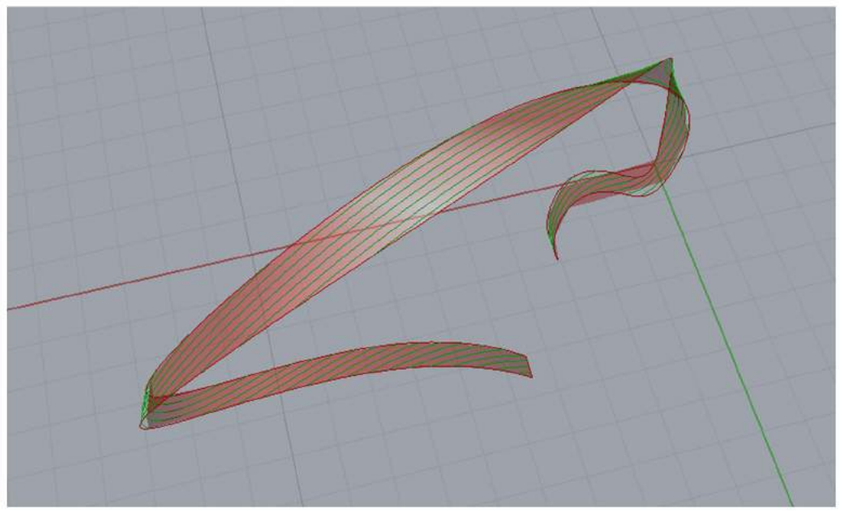


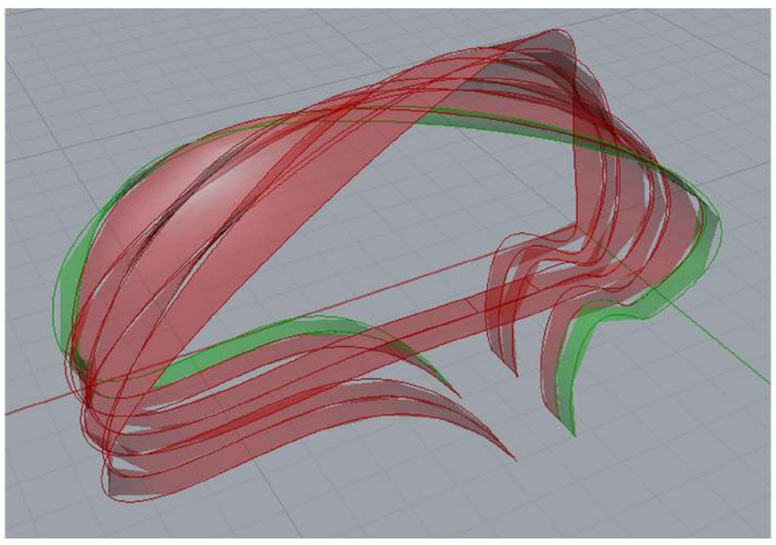
1.Move
2.Rotate
3.Rotate locally
4.Scale locally

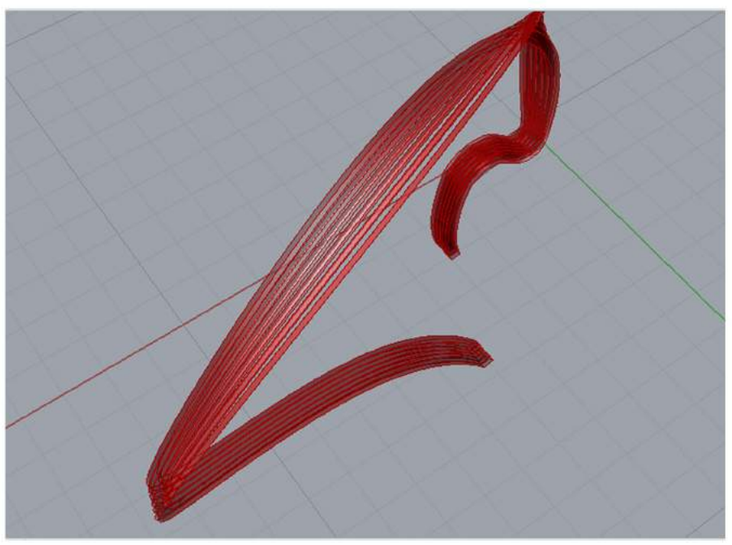


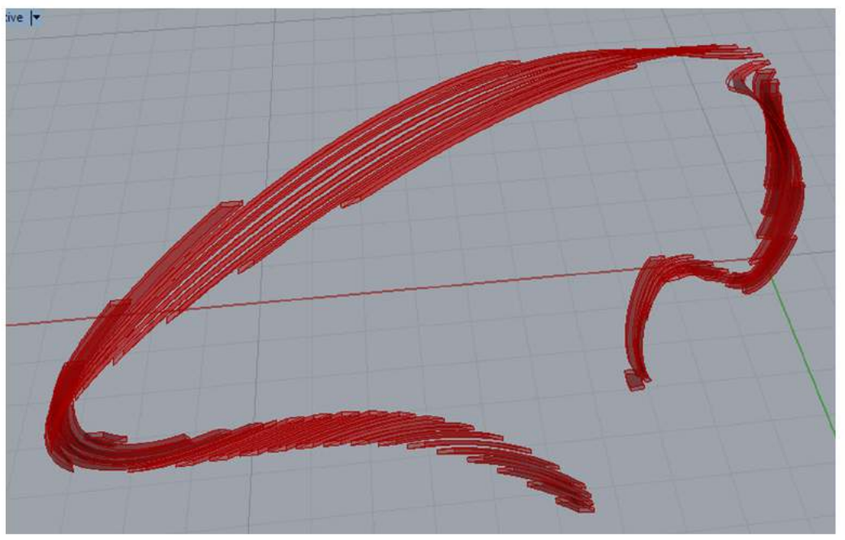




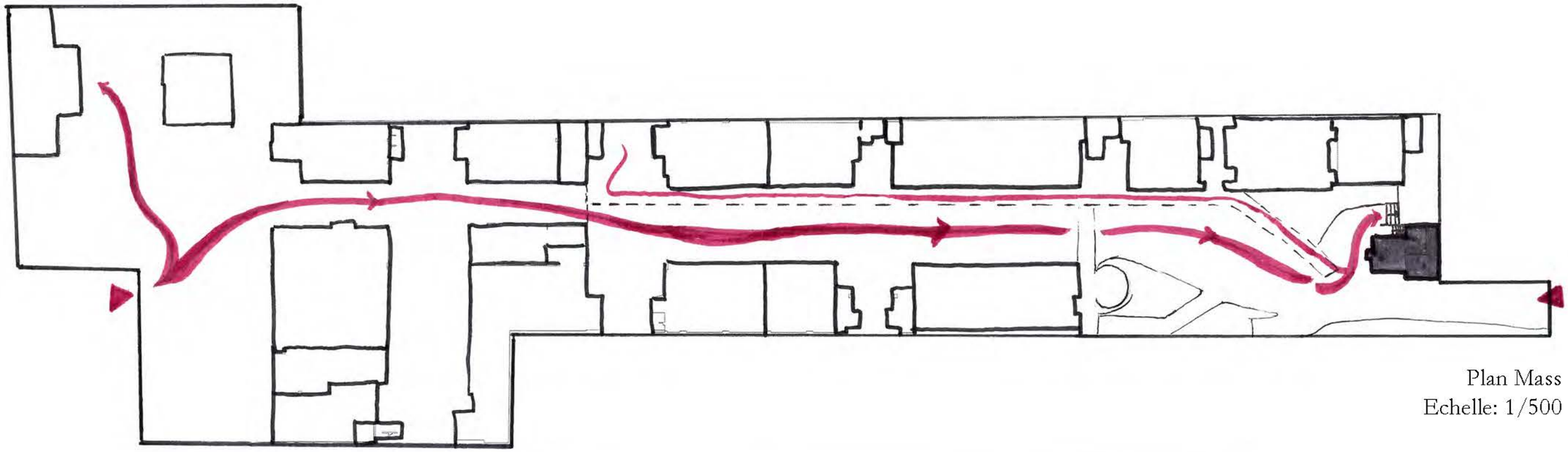






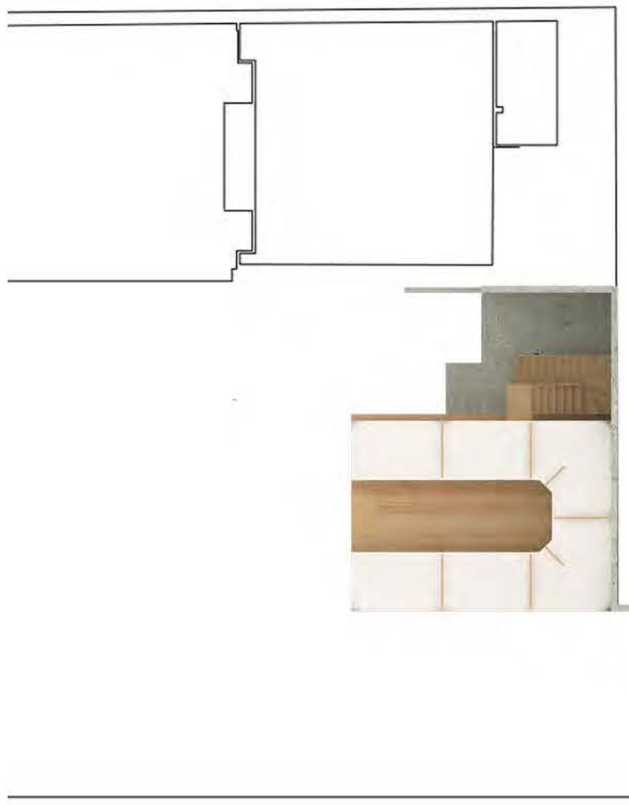


AmphiTerrasse



Plan Mass
Echelle: 1/500

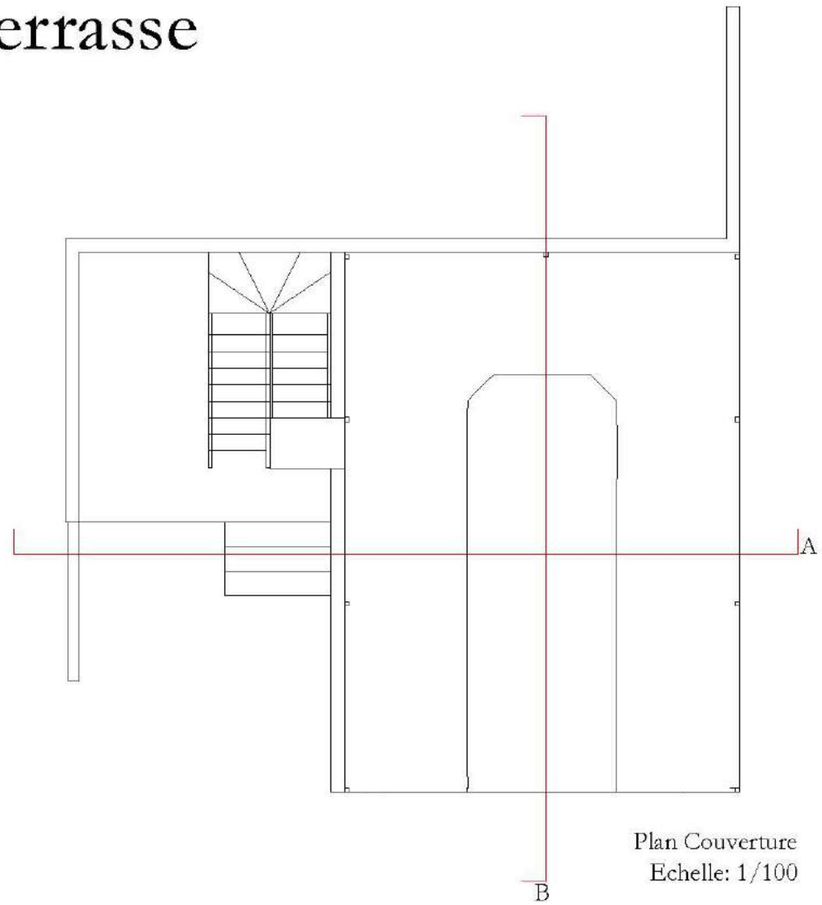




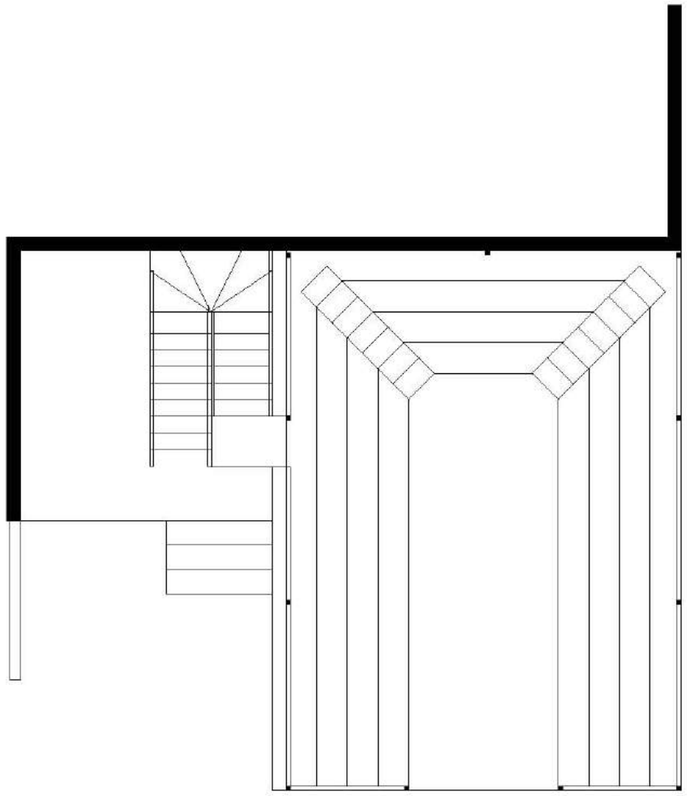
Plan Couverture
Echelle: 1/200

Sculpture Tectonique
Marc Leyral - Raphael Arlot
Isidora Maria Rodana - Bangseh Akuchu

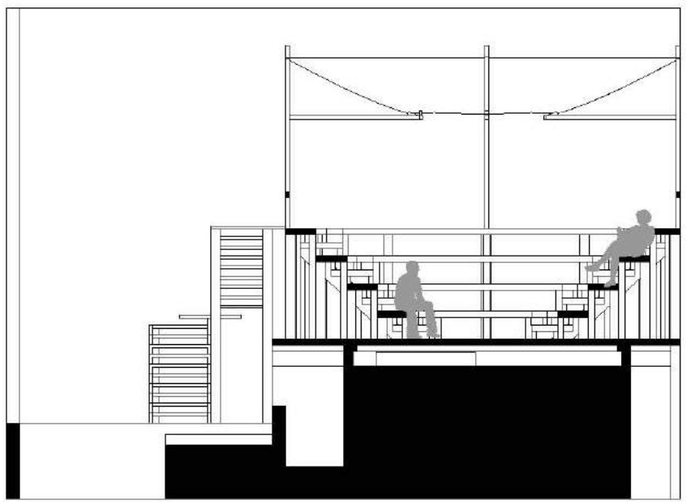
AmphiTerrasse



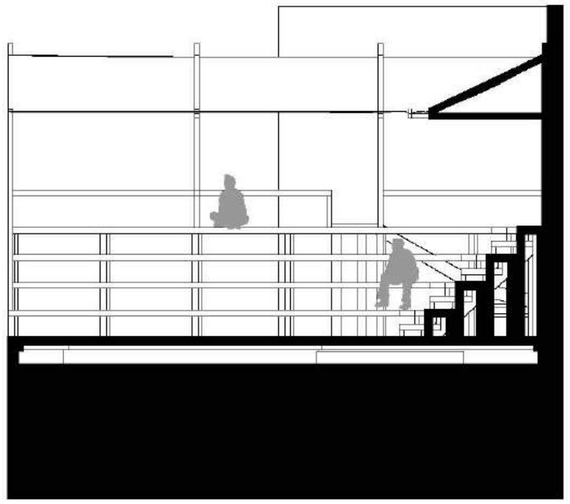
Plan Couverture
Echelle: 1/100



Plan
Echelle: 1/100



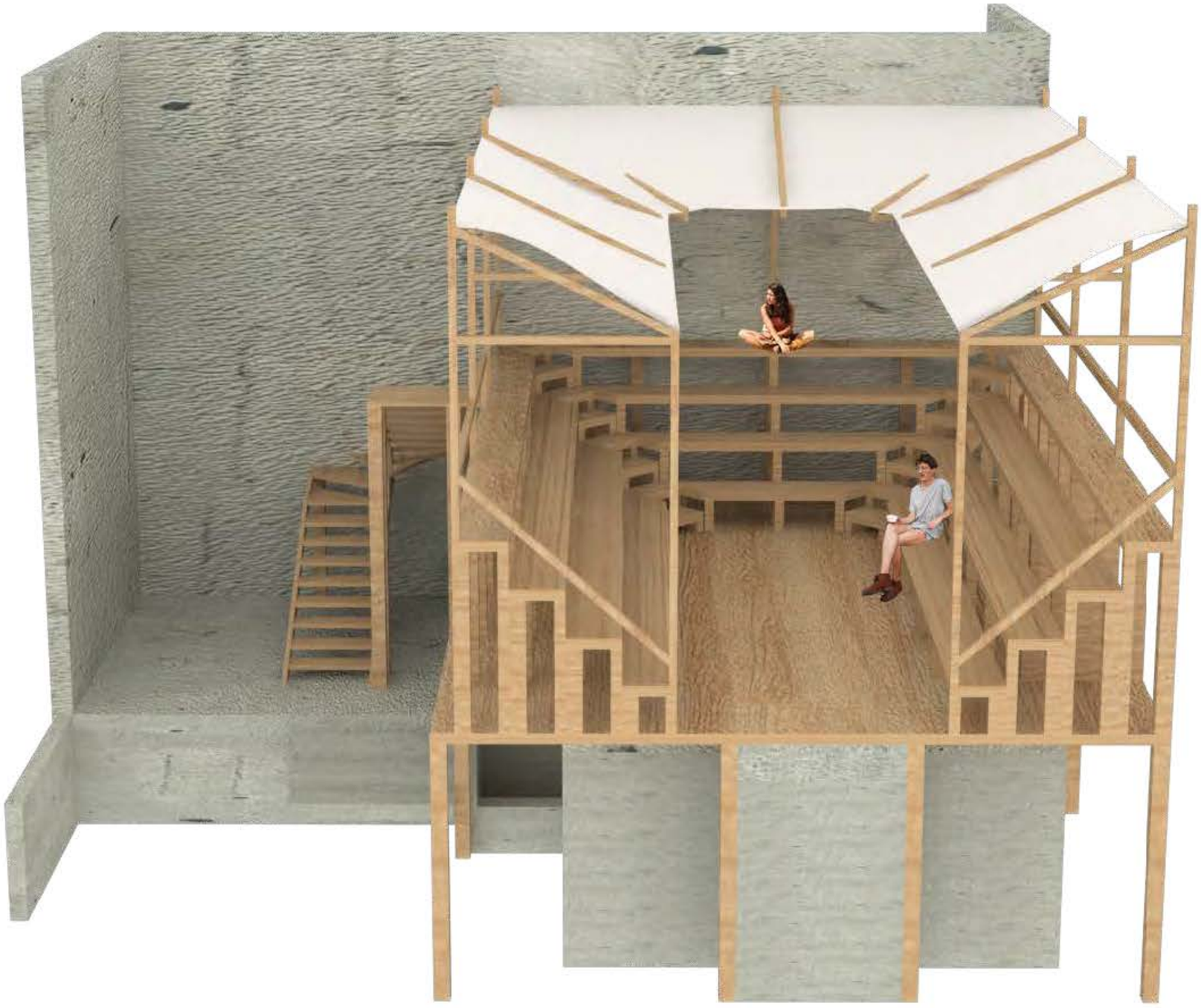
Coupe A
Echelle: 1/100



Coupe B
Echelle: 1/100

Sculpture Tectonique
Marc Leyral - Raphael Arlot
Isidora Maria Rodana - Bangseh Akuchu

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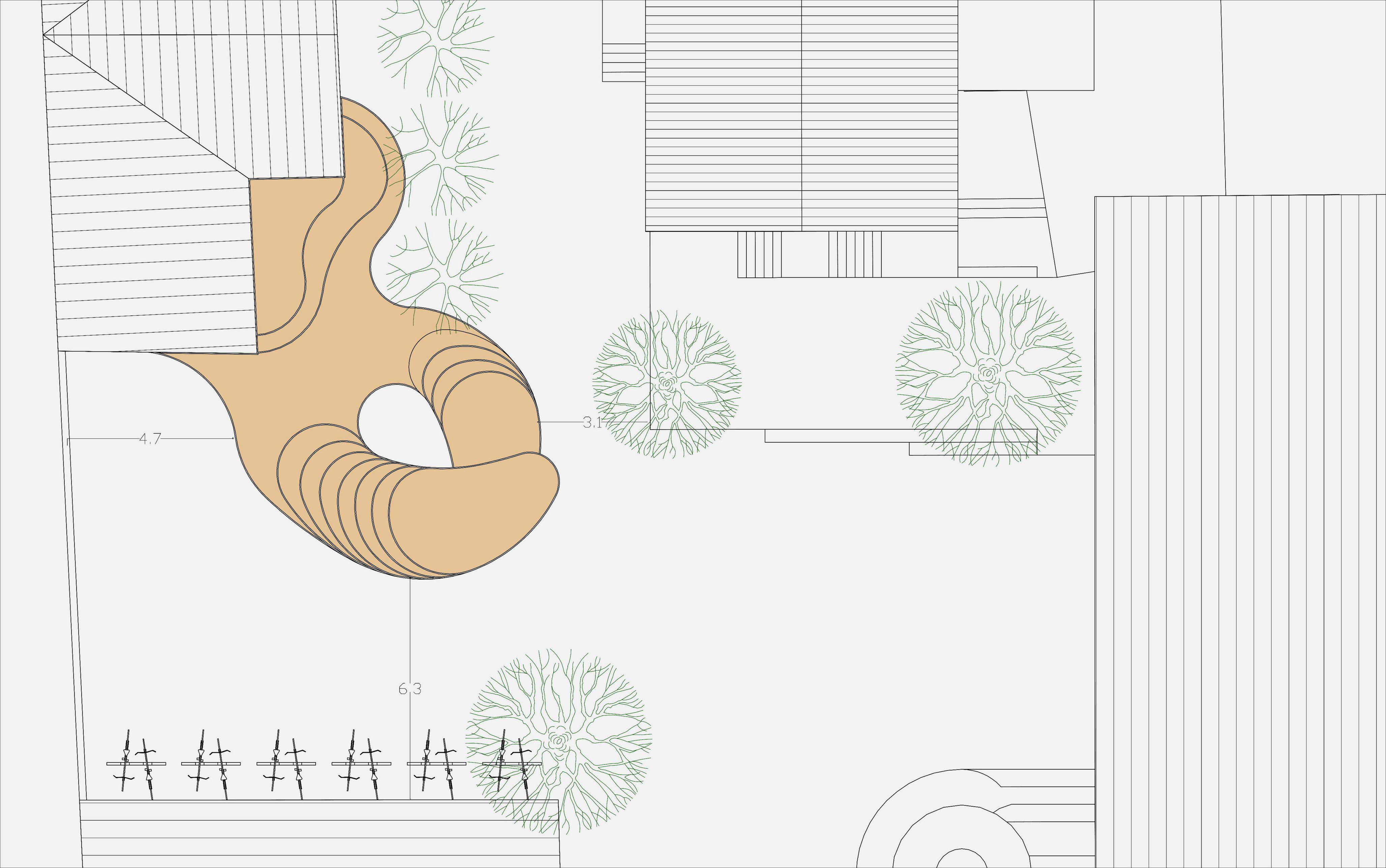


Sculpture Tectonique
Marc Leyral - Raphael Arlot
Isidora Maria Rodana - Bangseh Akuchu

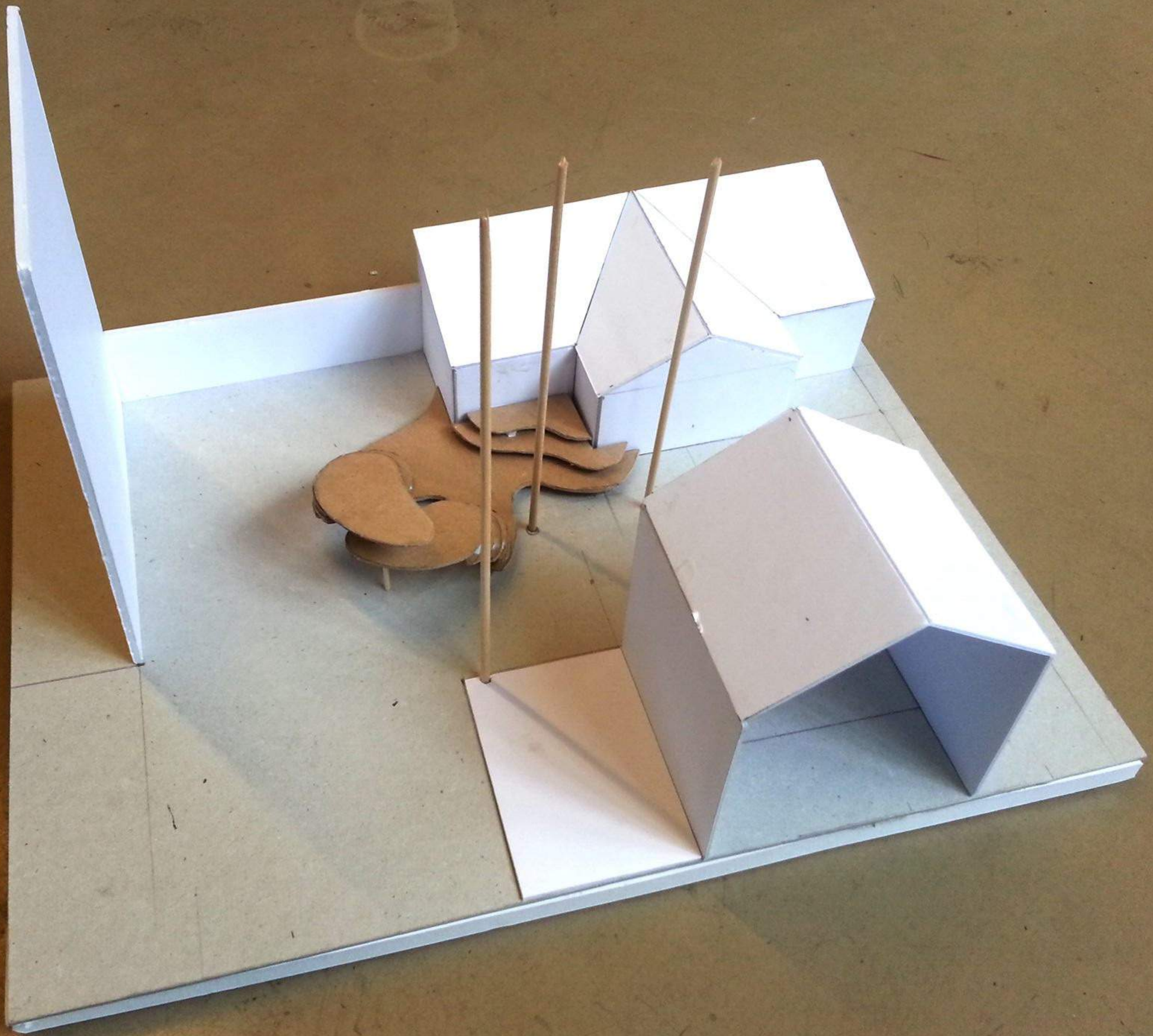
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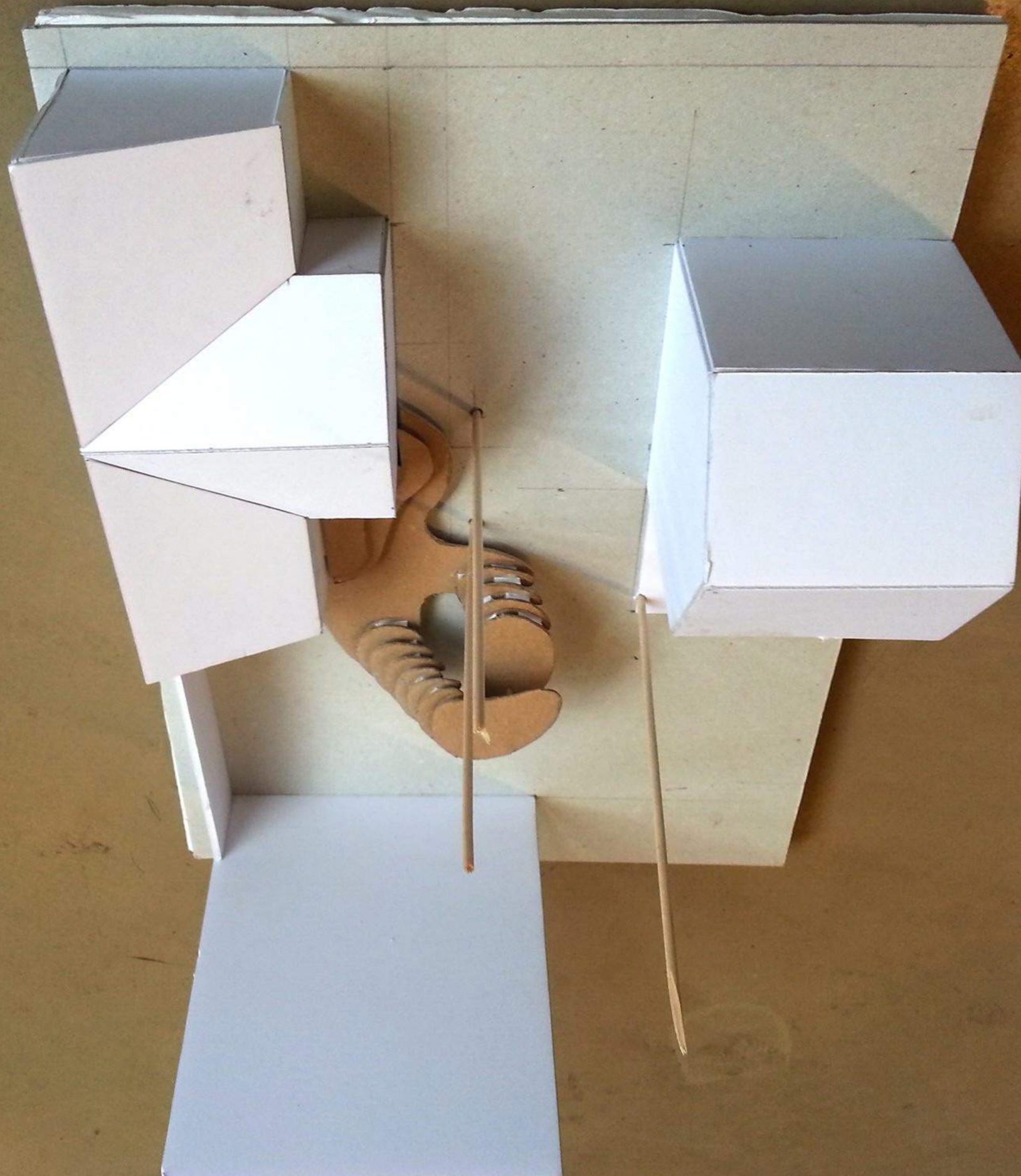


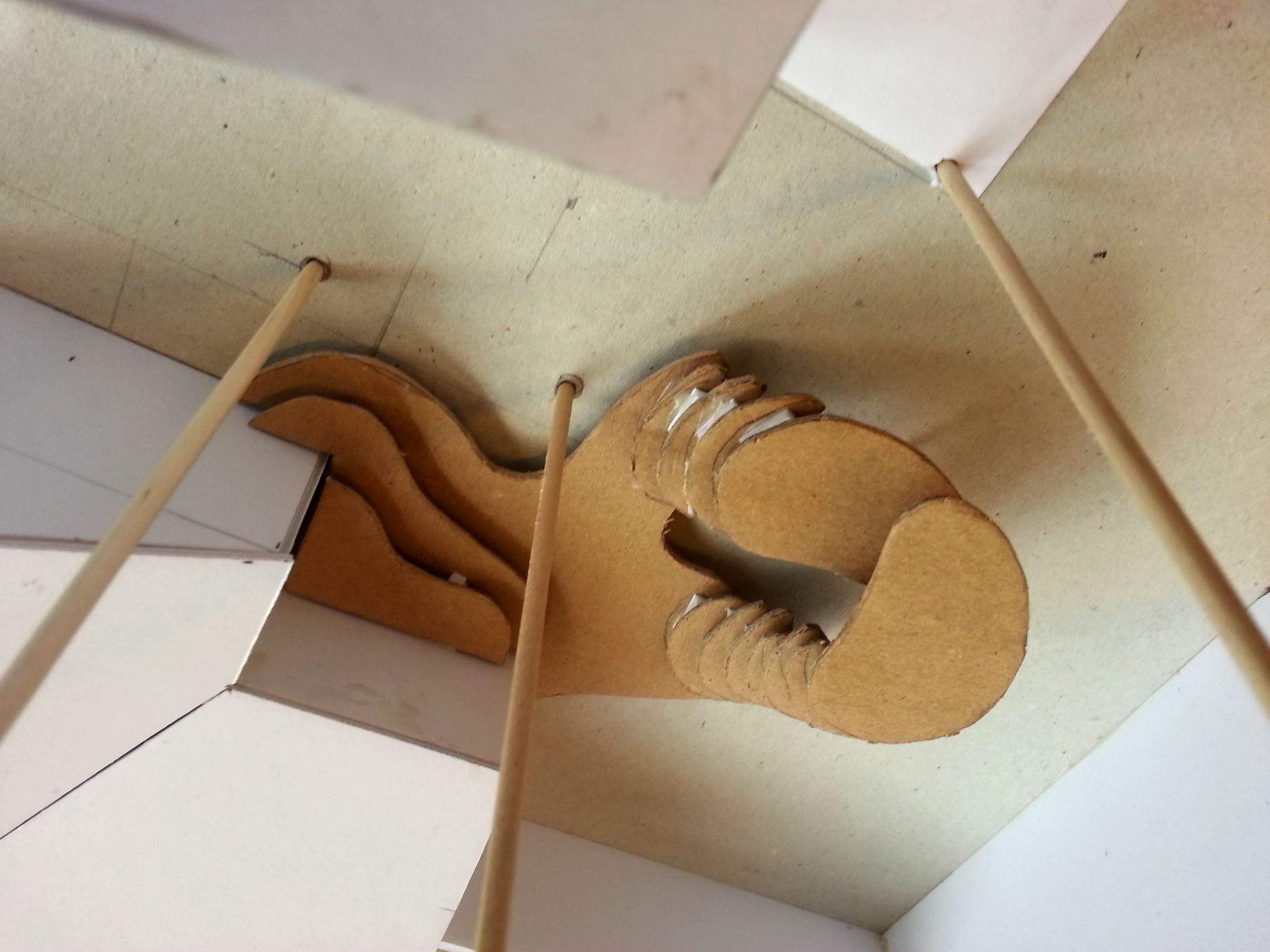
Sculpture Tectonique
Marc Leyral - Raphael Arlot
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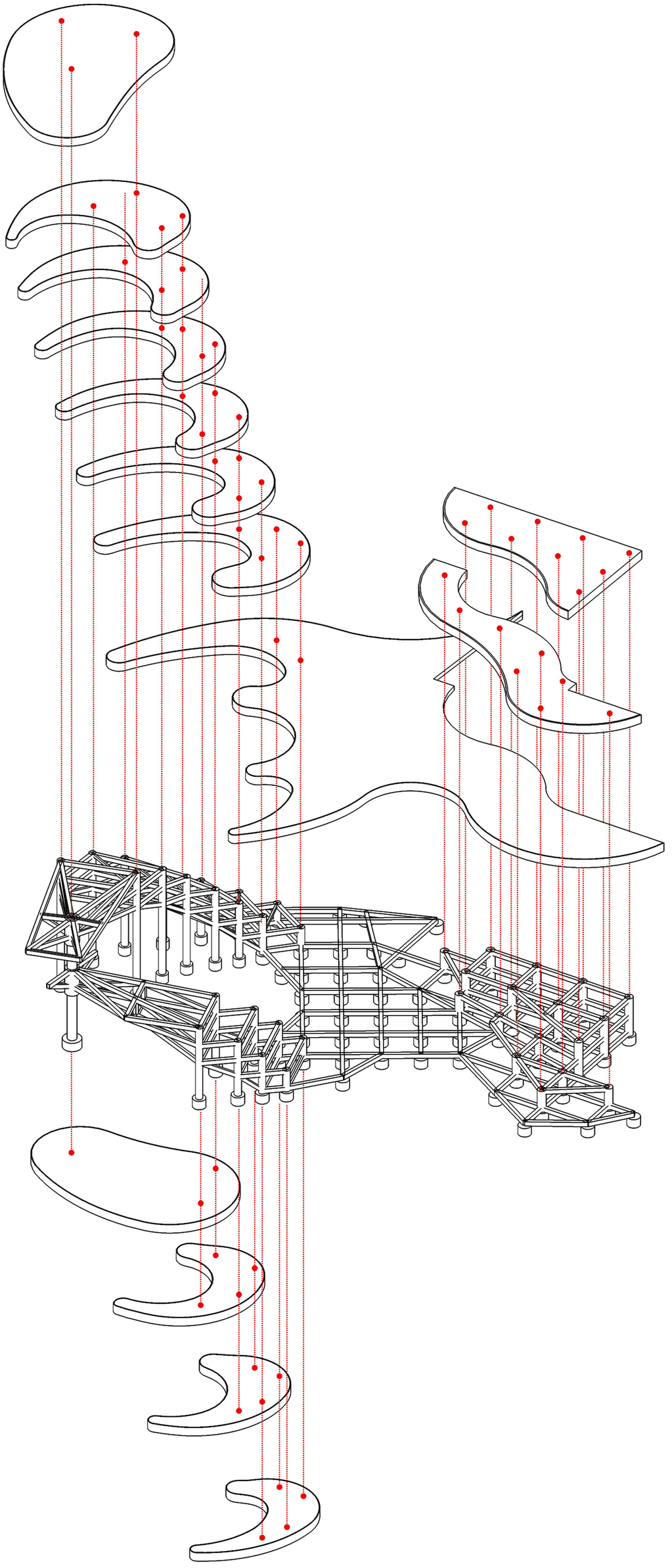

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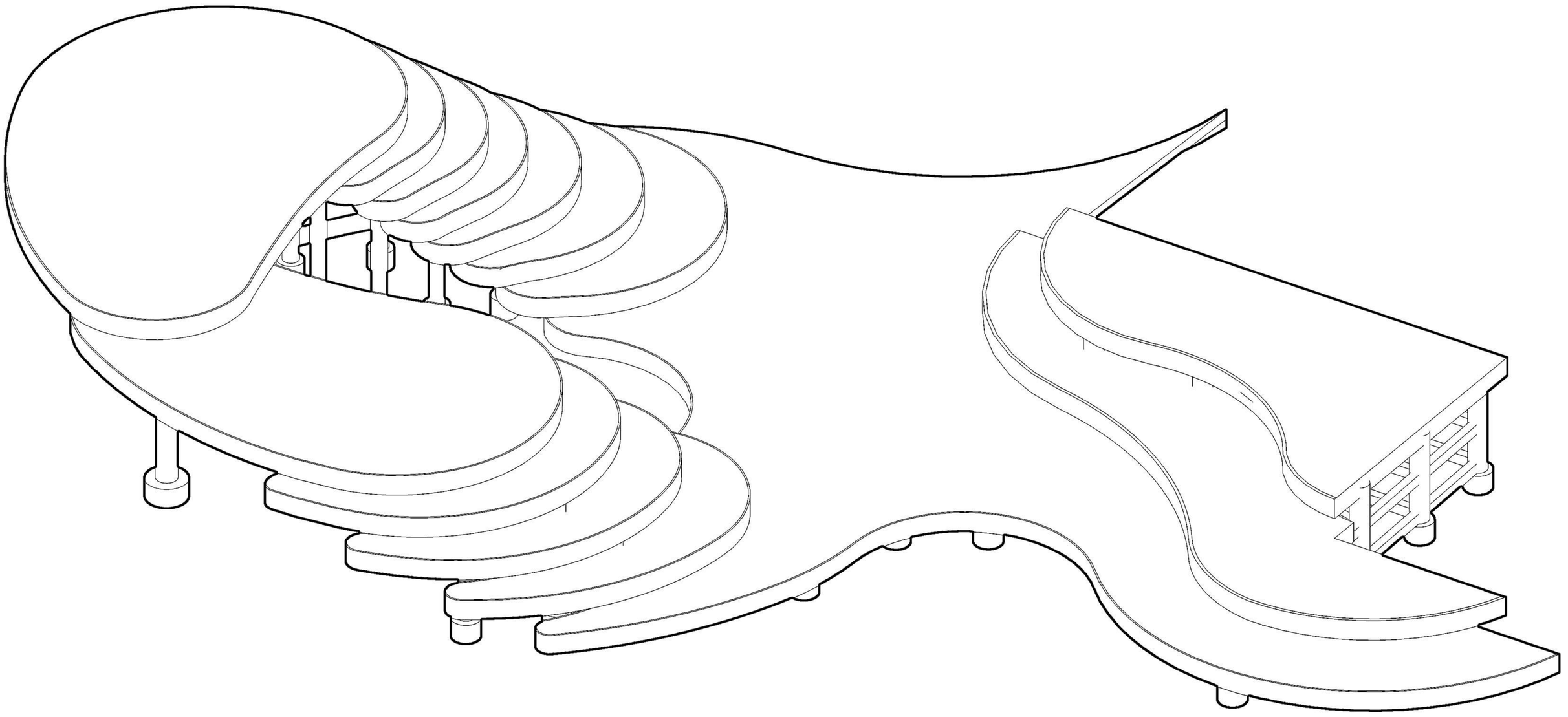


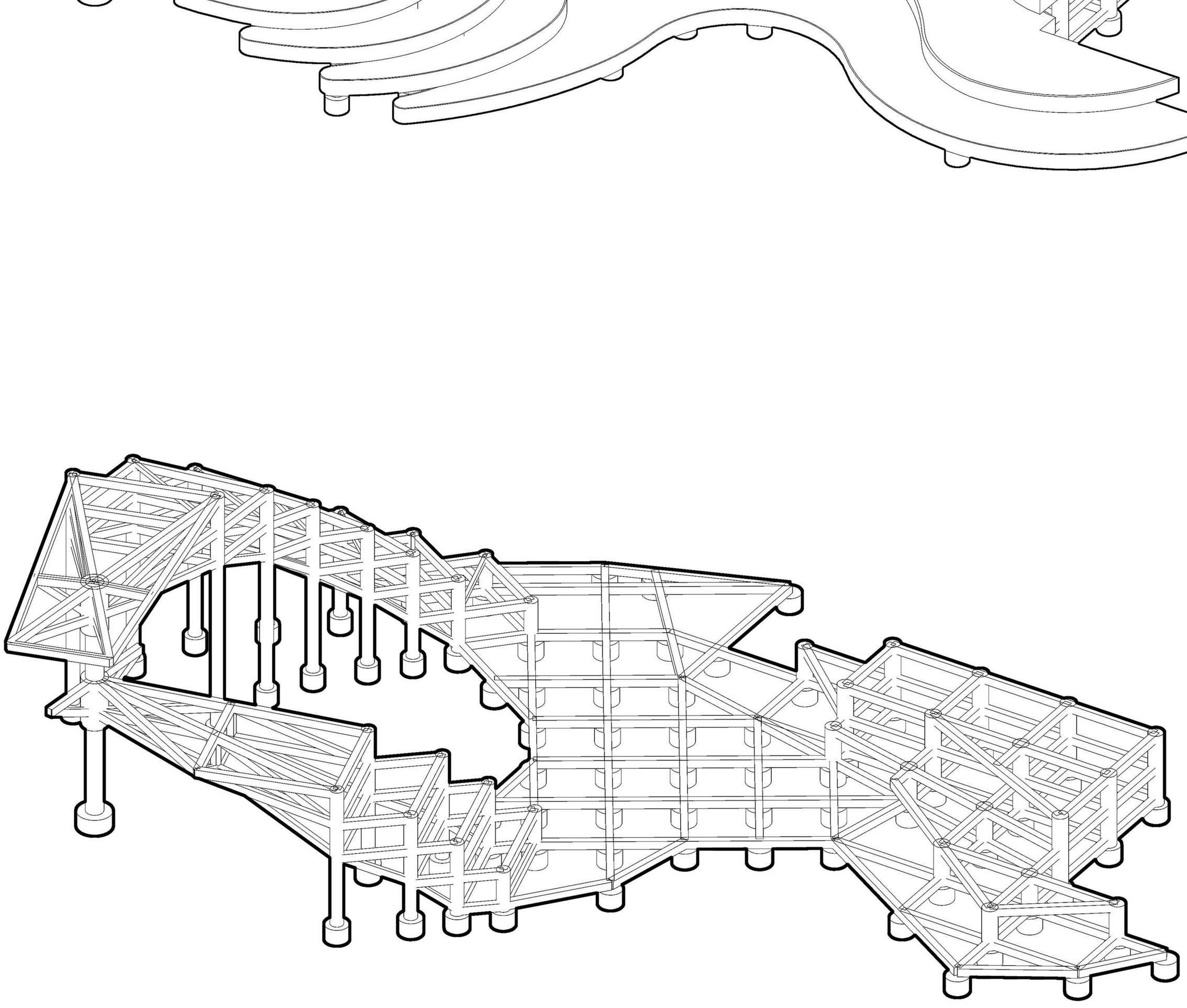


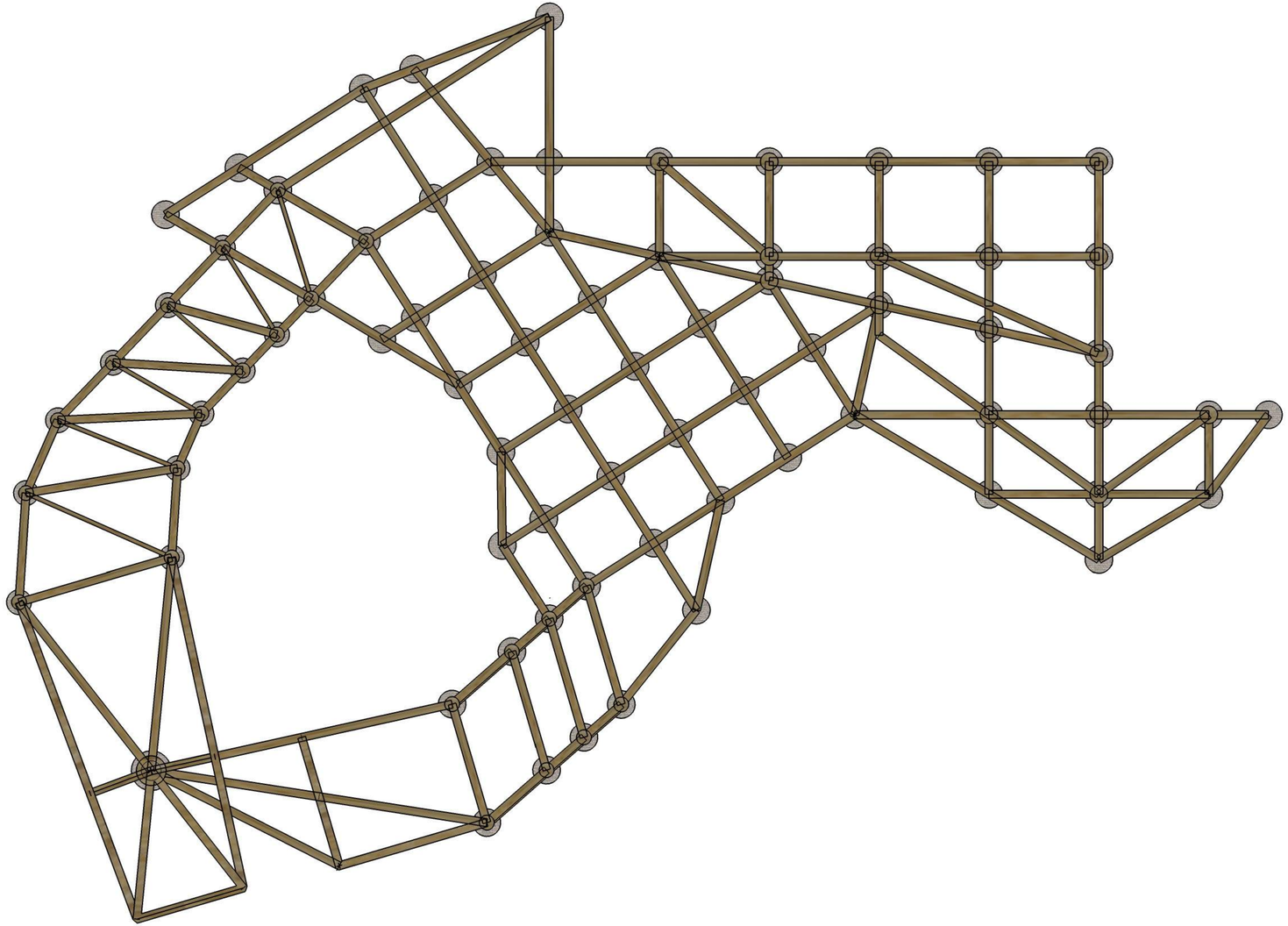


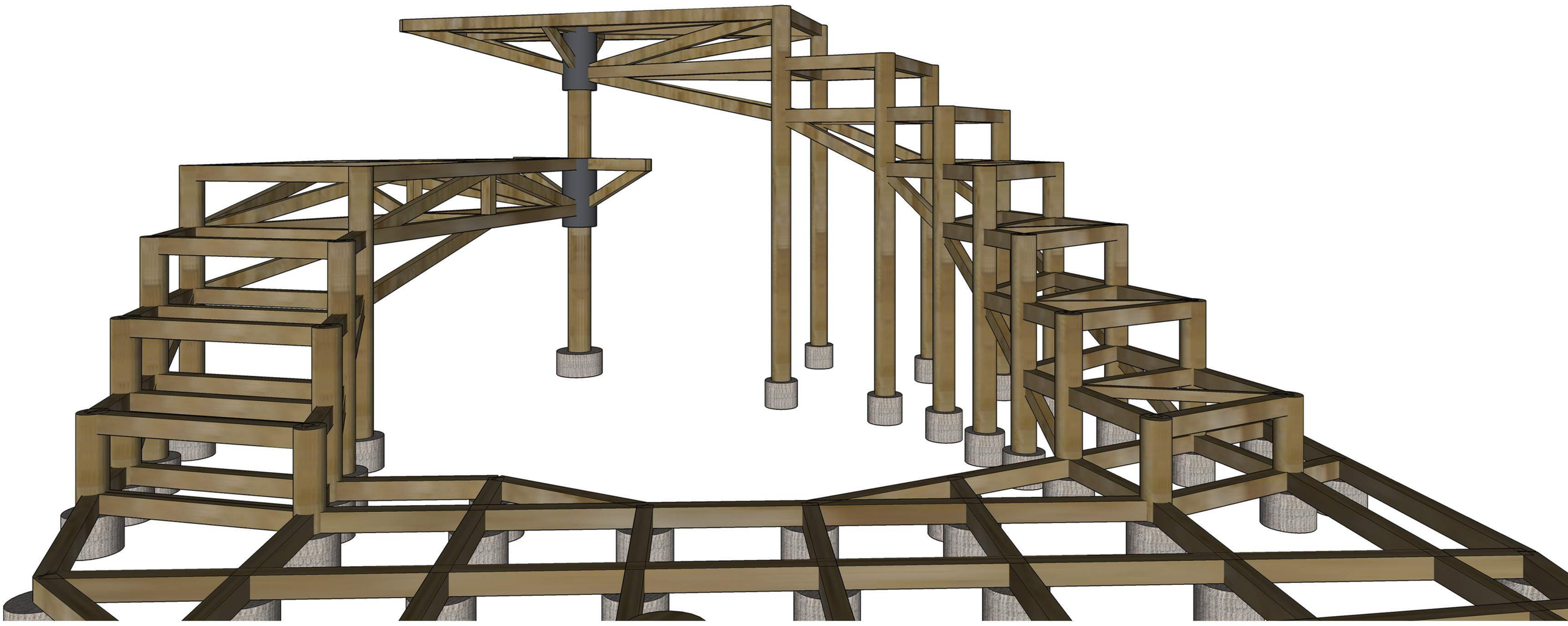


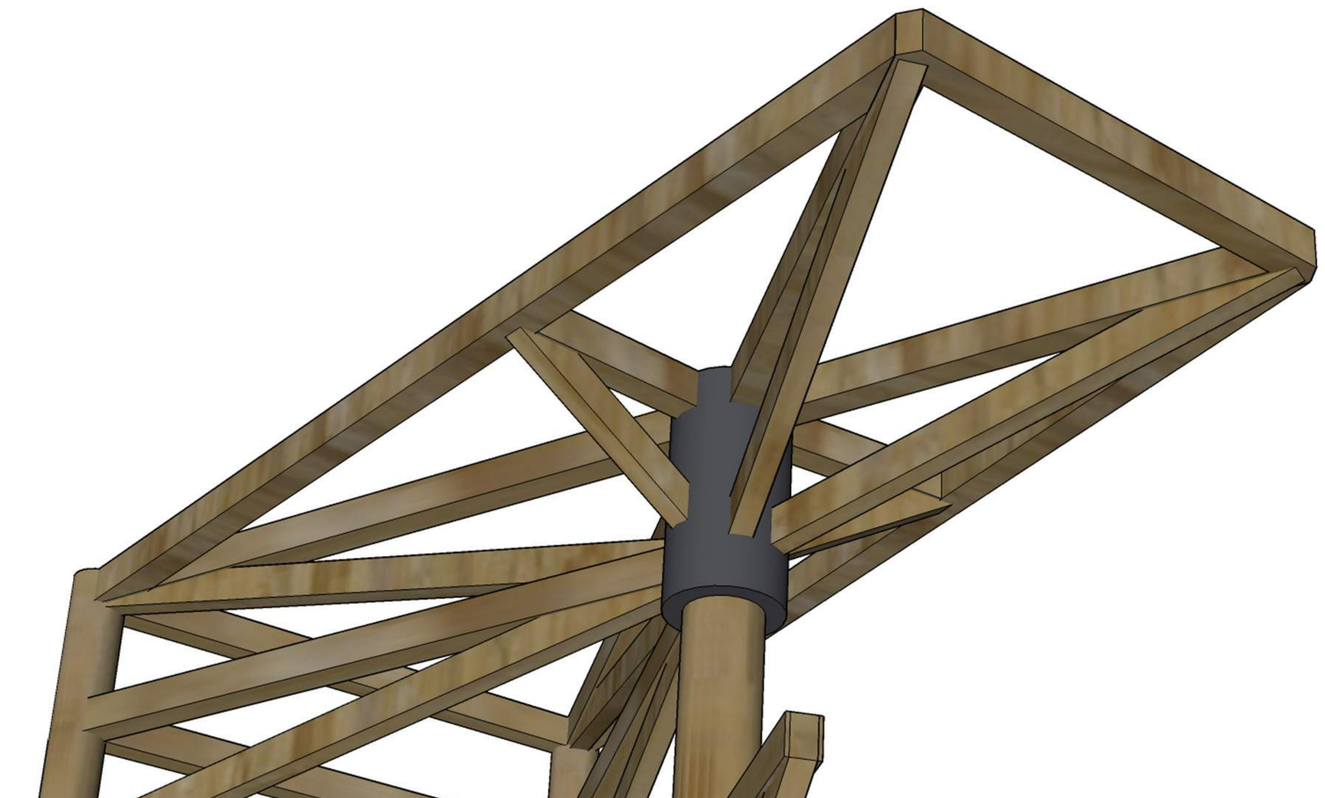


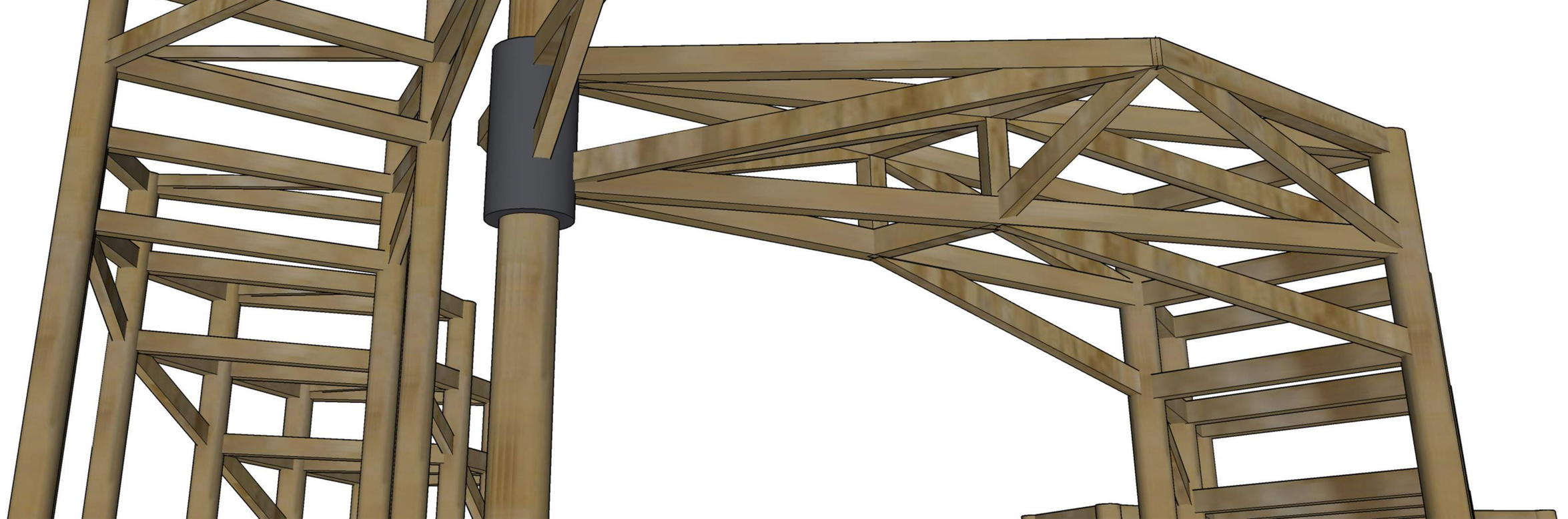












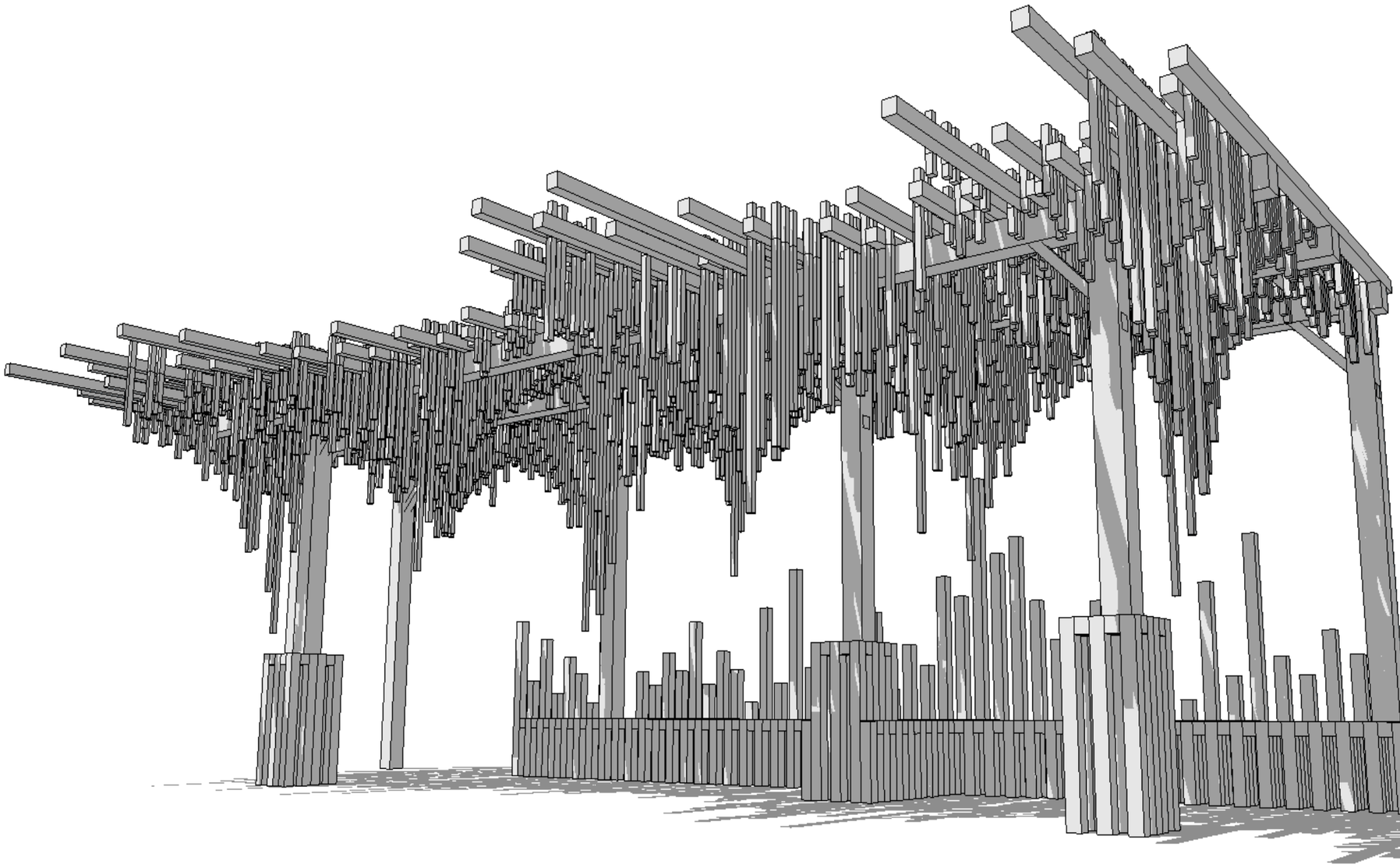












vue 3D







references

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phase avant-projet avp
30 mars 2016

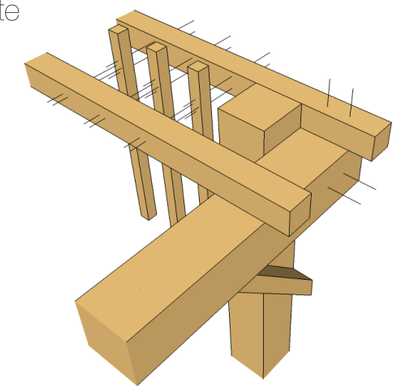


vue dans la court



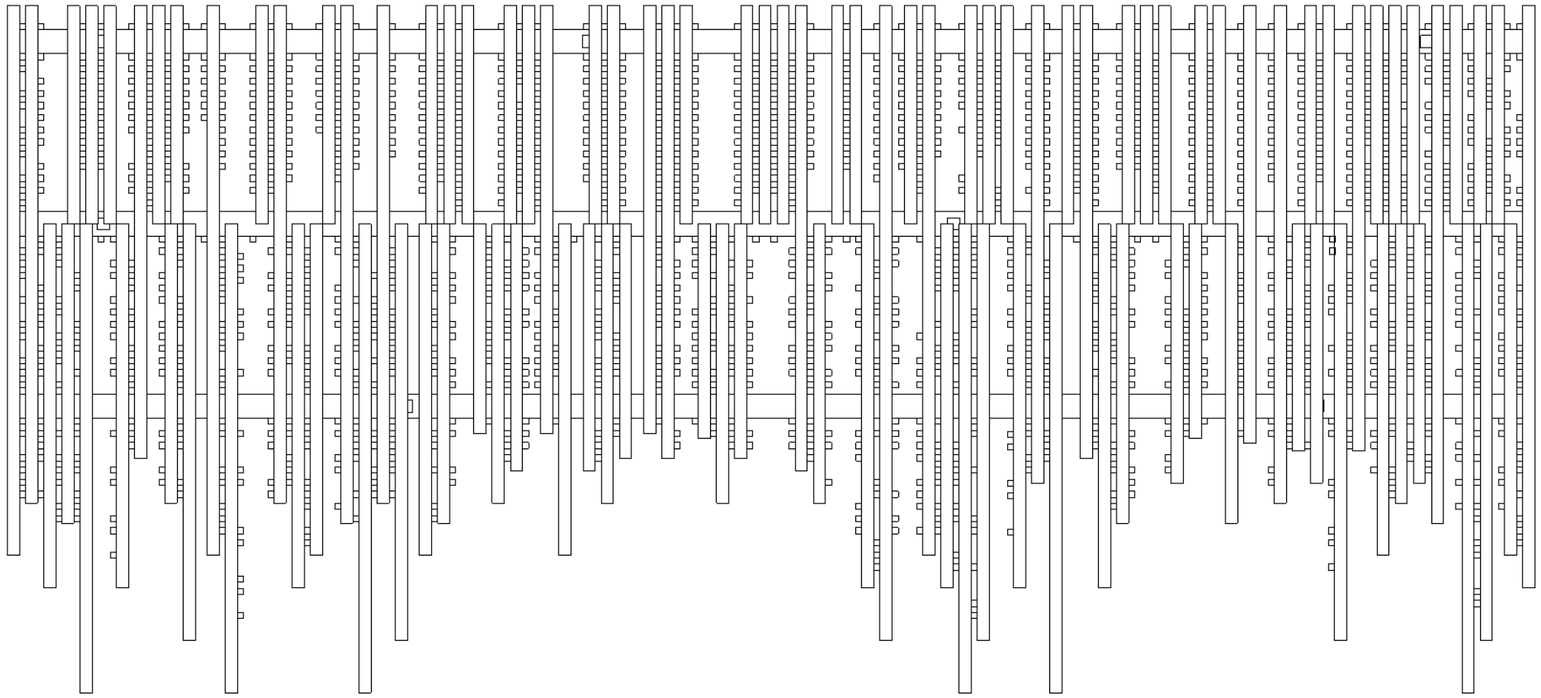


photos maquette

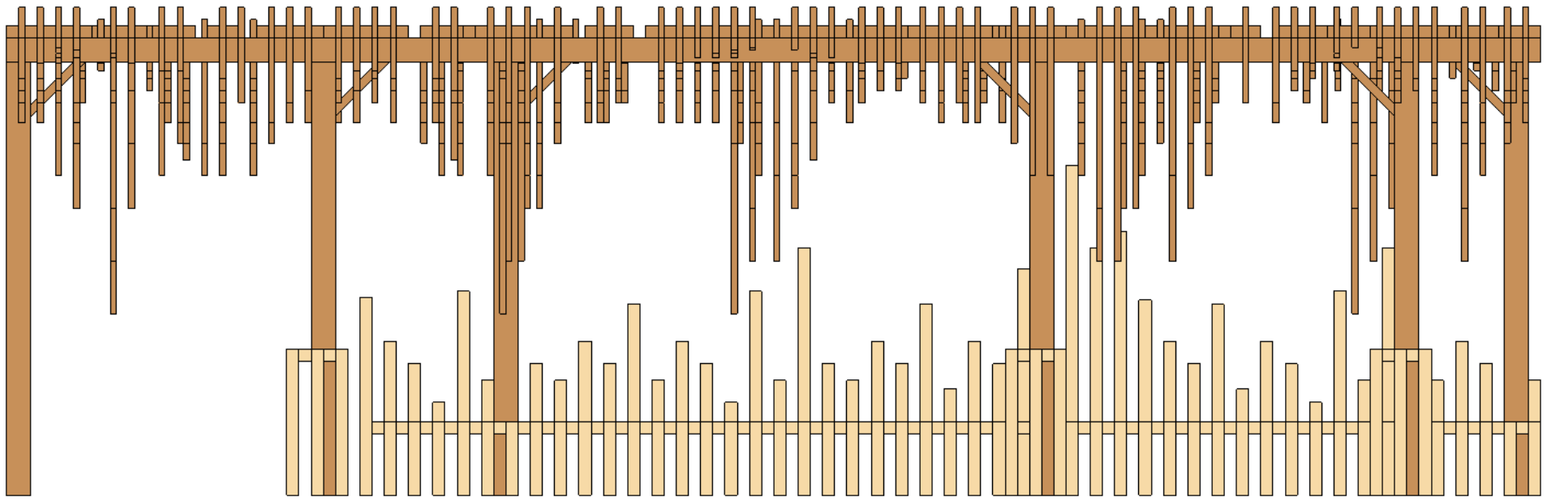


detail d'assemblage

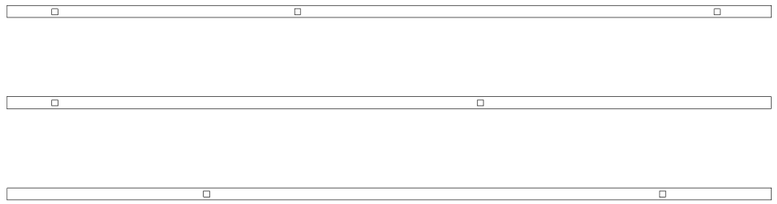
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phase avant-projet avp
30 mars 2016
2 sur 4



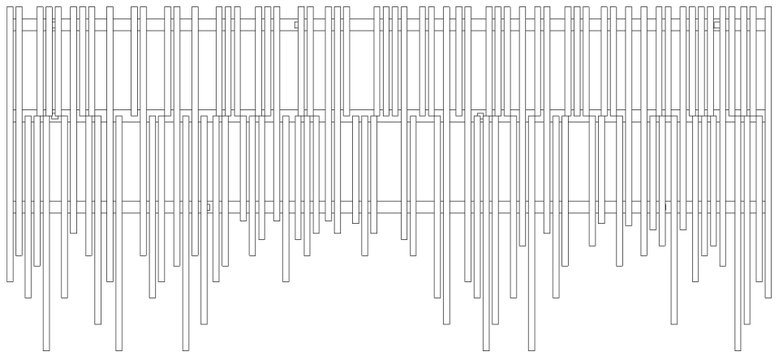
plan 1:50



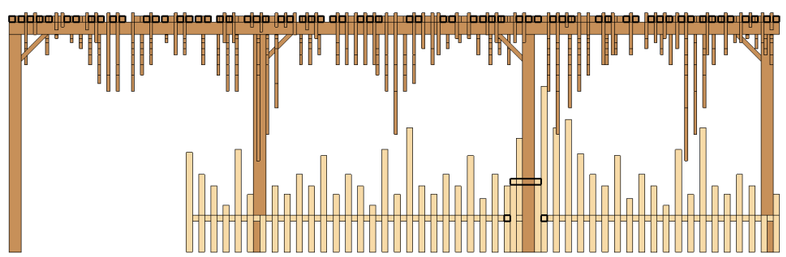
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plan construction 1:100

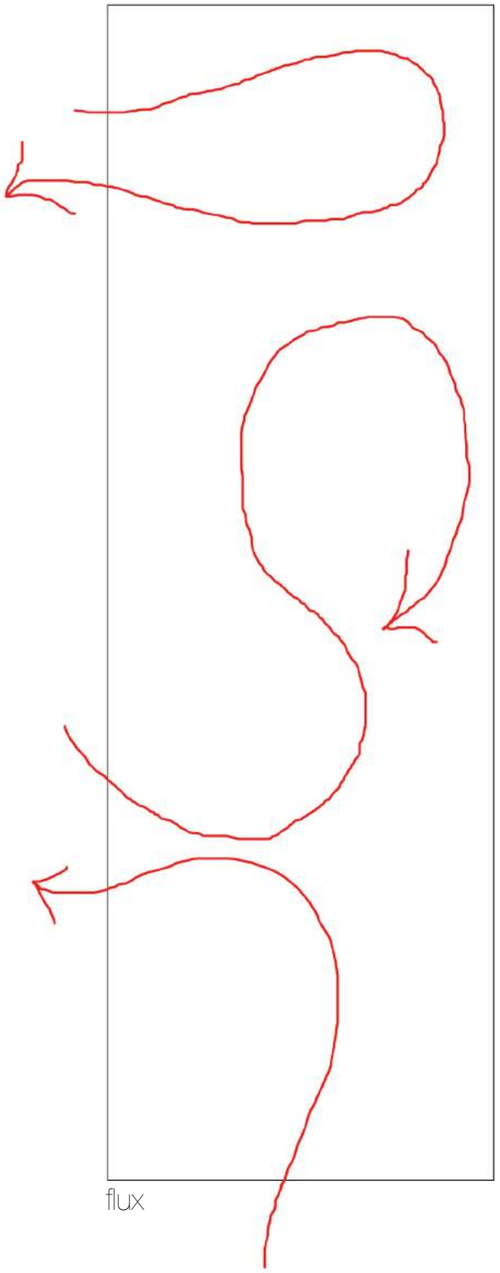


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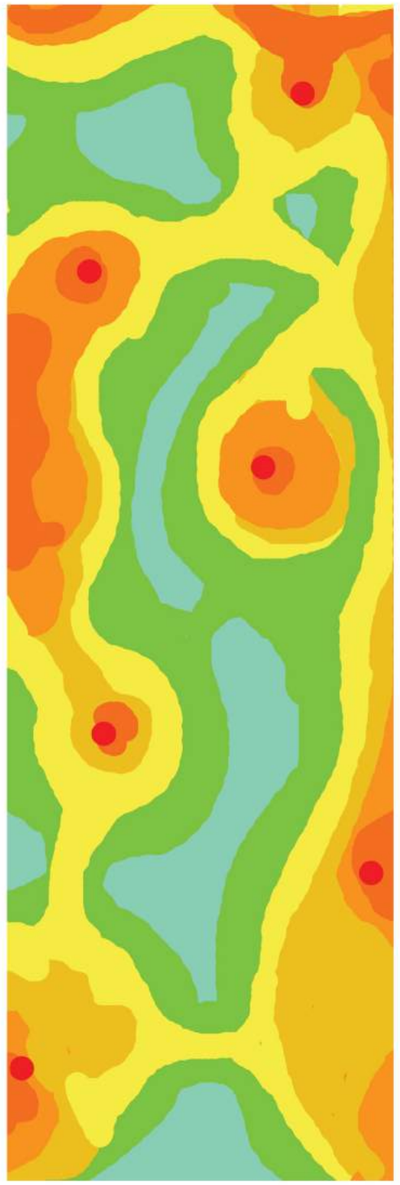


coupe 1:100

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flux



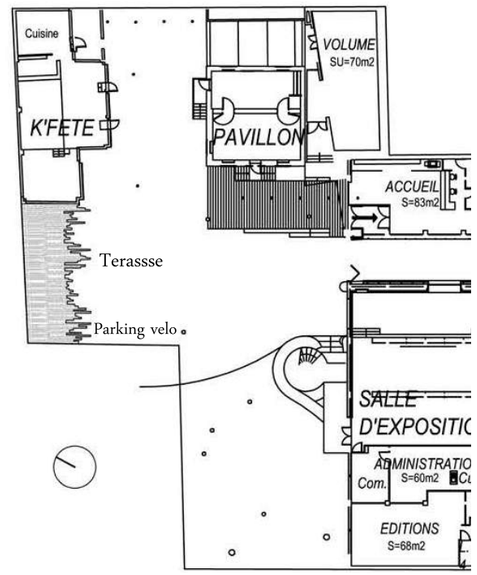
plan de hauteur

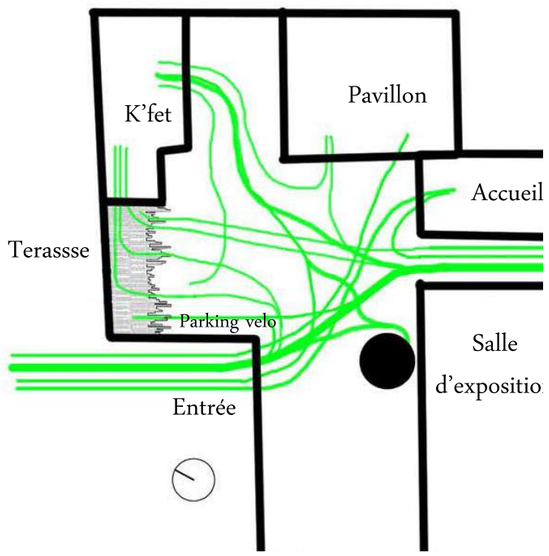


hauteur des poutres



plan des poutres





flux dans la court

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