

# PORTFOLIO

## ARC 3003 - COMPREHENSIVE DESIGN PROJECT

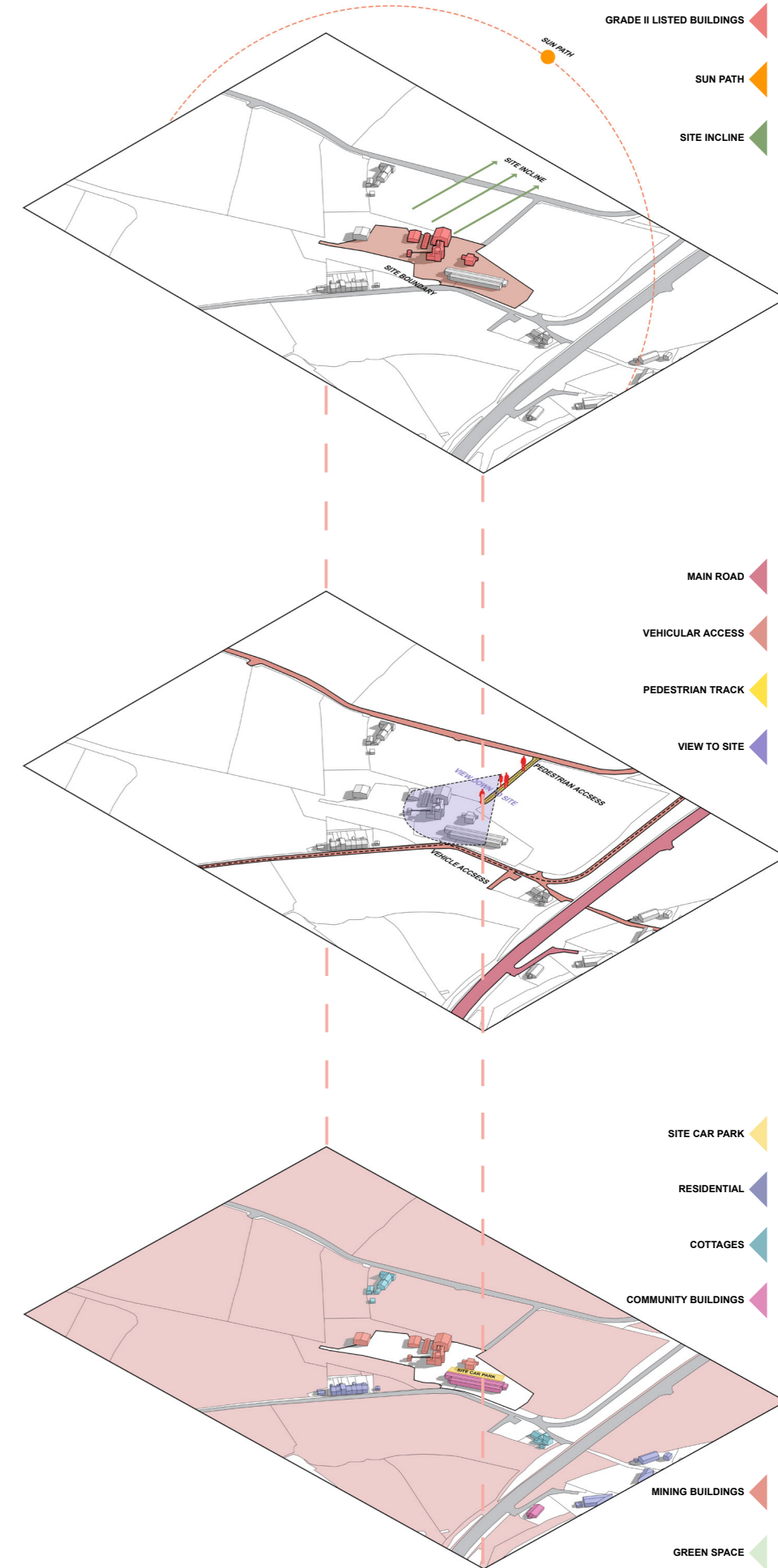
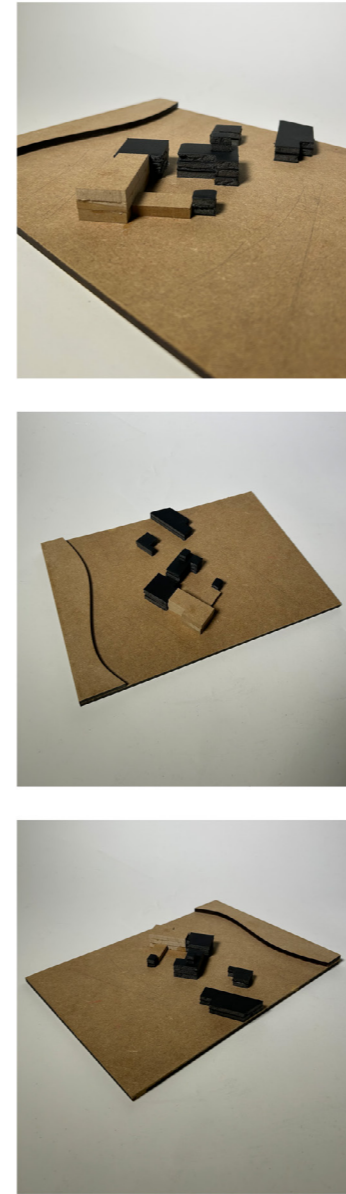
FLORENCE MINE INTEGRATED DESIGN

ALEXANDER CHALLIS 26440226



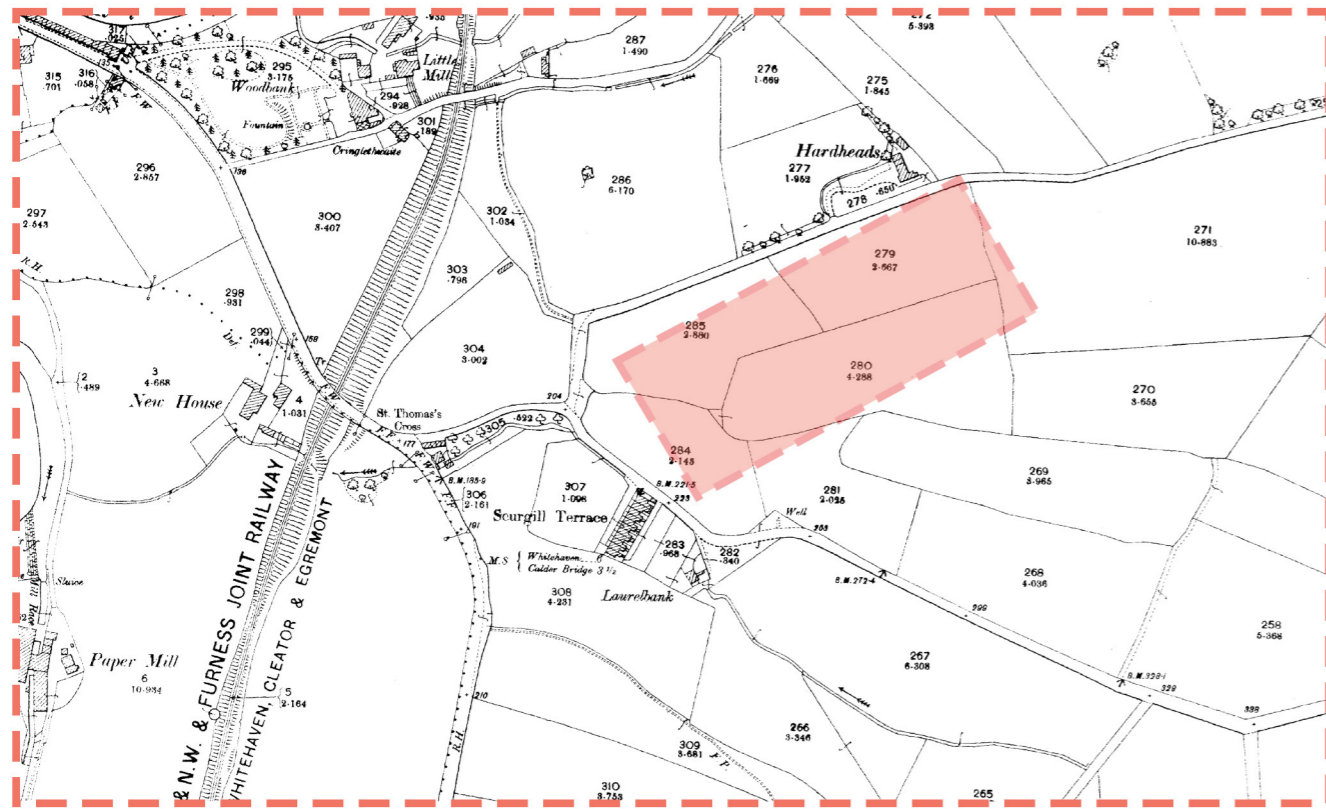
**SITE AND CONCEPT COLLAGE**

THE SITE ANALYSIS AT THE BUILDING LEVEL SCALE REVEALS THE NATURAL SQUARE FORMED FROM THE DETACHED EXISTING BUILDINGS. THIS FORMS A CENTRAL AXIS ON THE SITE AND ALLOWS FOR THE EXISTING BUILDINGS TO BE PART OF THE PROPOSAL CLOSURE OF THE SQUARE. AT MACRO SCALE THE TOWN OF EGREMONT HAS CLEARLY DEVELOPED WEST OF THE SITE LEAVING THIS PORTION OF THE LAND BEHIND. THIS SCHEME SHOULD REVITALISE THIS SIDE OF THE MAIN ROAD.



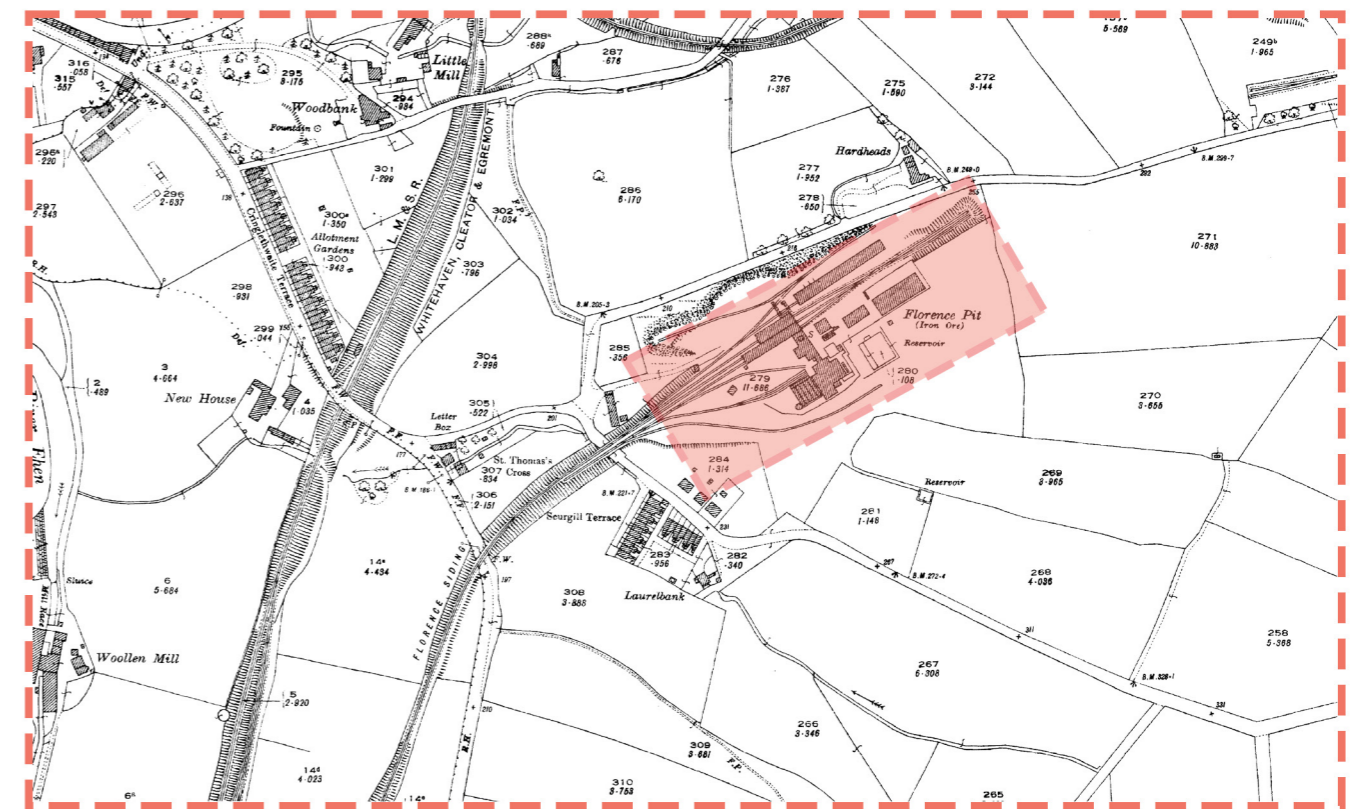
# S W O T

<ul style="list-style-type: none"> <li>- Historical context provides emotional narrative for project.</li> <li>- Strong materiality present in the existing site building.</li> <li>- Appropriate site due to cultural significance.</li> </ul>	<ul style="list-style-type: none"> <li>- Issues of being a site largely separate from town.</li> <li>- Strict regulations due to listed building status.</li> <li>- Limited space around listed buildings for grand project.</li> </ul>	<ul style="list-style-type: none"> <li>- Strong aesthetic to be applied to new project.</li> <li>- Red colour of earth and iron ore presents associations with political context, labour red.</li> <li>- Connections to made directly to history of both site and UK as a whole.</li> </ul>	<ul style="list-style-type: none"> <li>- Existing arts centre on found on the site that was built recently compared to historic buildings.</li> <li>- Narrow access to site via vehicle.</li> <li>- Limited access to modify listed buildings and quality of below ground due to mining.</li> </ul>
---	---	---	---



HISTORICAL CONTEXT 1890's

1:1250



HISTORICAL CONTEXT 1920's

1:1250

OPENED IN 1914 THE FLORENCE MINE IN EGREMONT FORMS PART OF A SITE FROM WHICH THE MAJORITY OF THE BUILDINGS ARE GRADE II LISTED. THE ABOVE MAPS INDICATE THE MINES INFLUENCE ON THE TOWN OF EGREMONT PUTTING IT ON THE MAP AND ATTRACTING WORKERS FOLLOWING THE FIRST WORLD WAR. THE MINE WAS THE LAST DEEP IRON ORE MINE IN EUROPE TO BE CLOSED DOWN IN 1980. THIS WAS IMPART DUE TO THE DECISIONS MADE BY THE GOVERNMENTAL BODY IN THE UK AT THE TIME UNDER MARGARET THATCHER.

## DECLINING SITE ANALYSIS



DIAGRAM OF IRON MINING IN CENTRAL UK

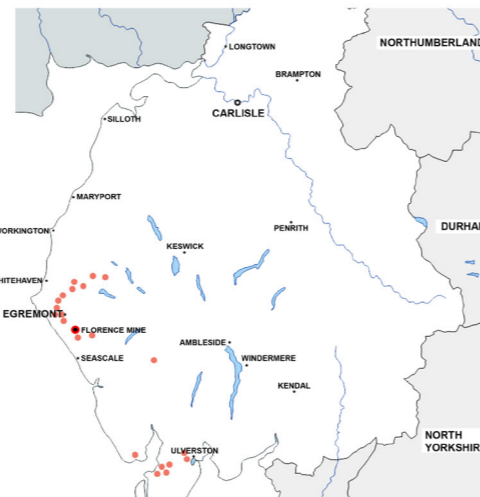


DIAGRAM OF IRON MINE SITES IN CUMBERLAND COUNTY

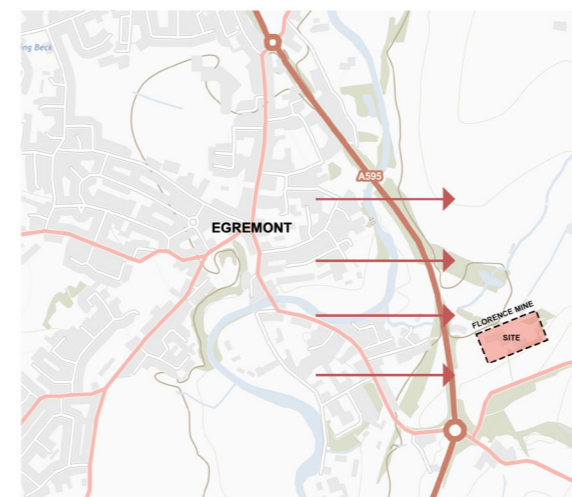


DIAGRAM OF URBAN CONTEXT AND SITE LOCATION

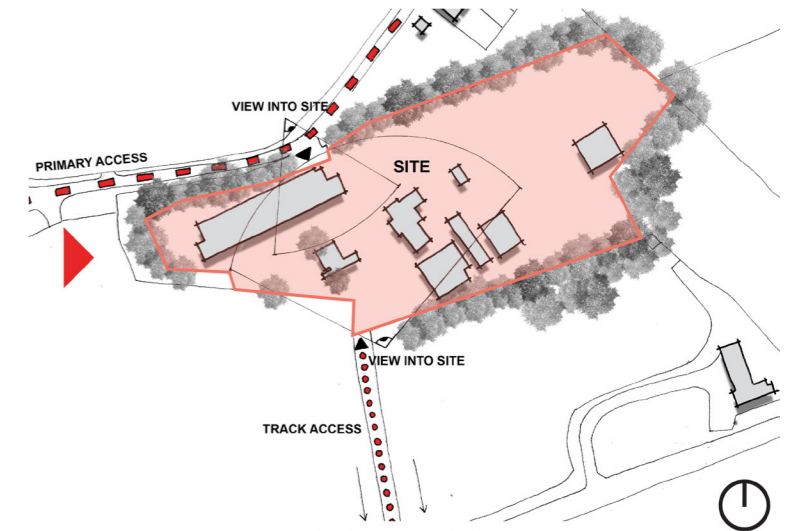
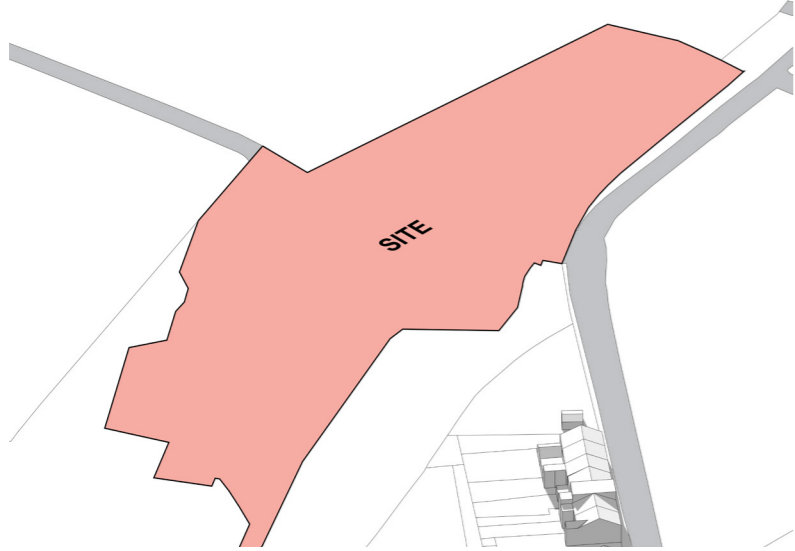
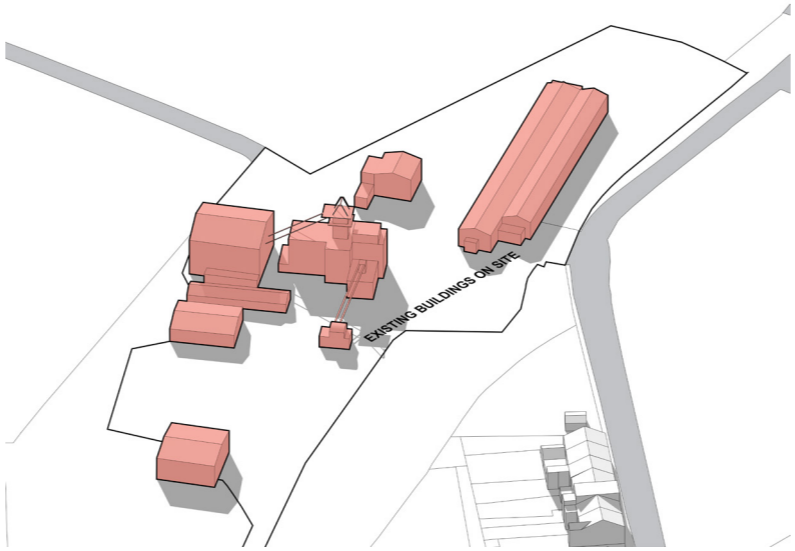


DIAGRAM OF SITE AND IMMEDIATE CONTEXT

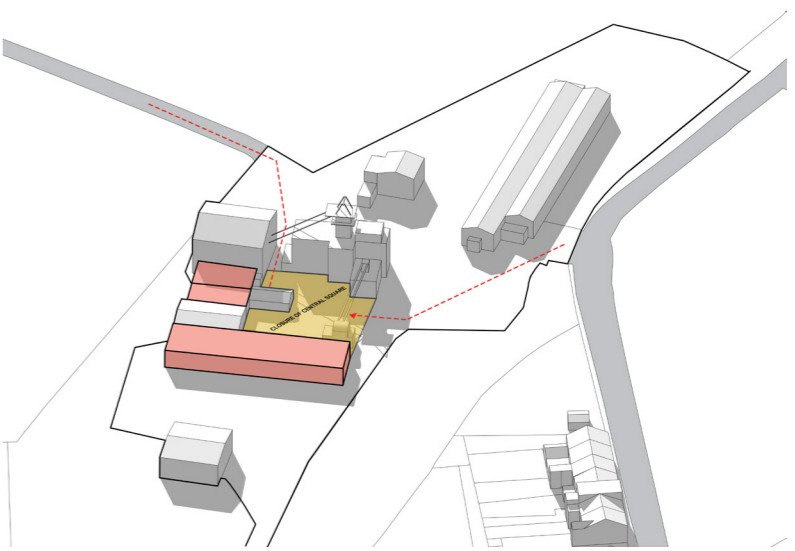
INITIAL MASSING OF PROPOSAL RELATING TO ANALYSIS



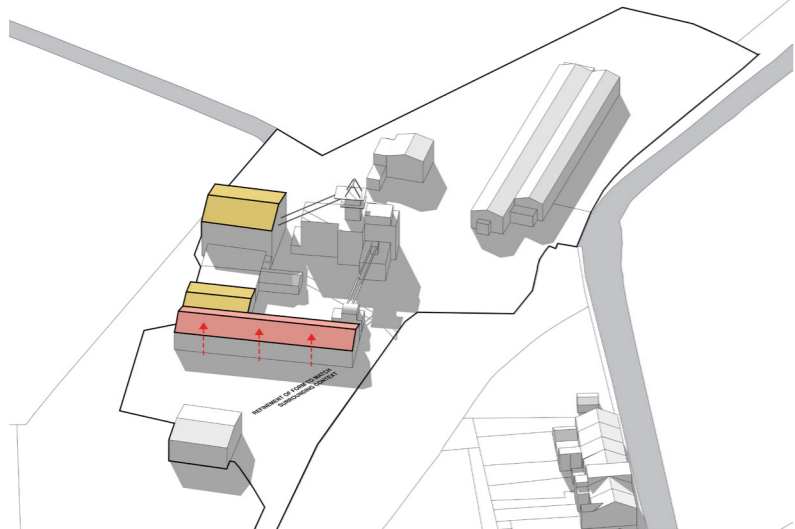
SITE AND SURROUNDING CONTEXT



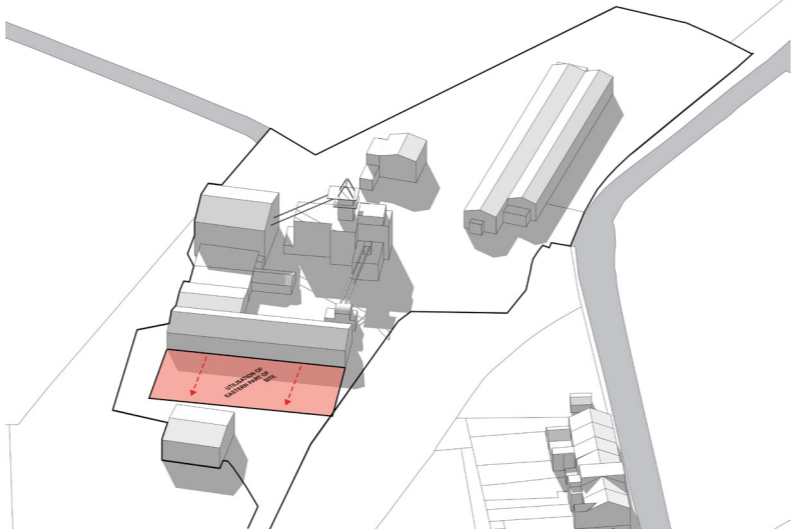
EXISTING BUILDINGS ON SITE



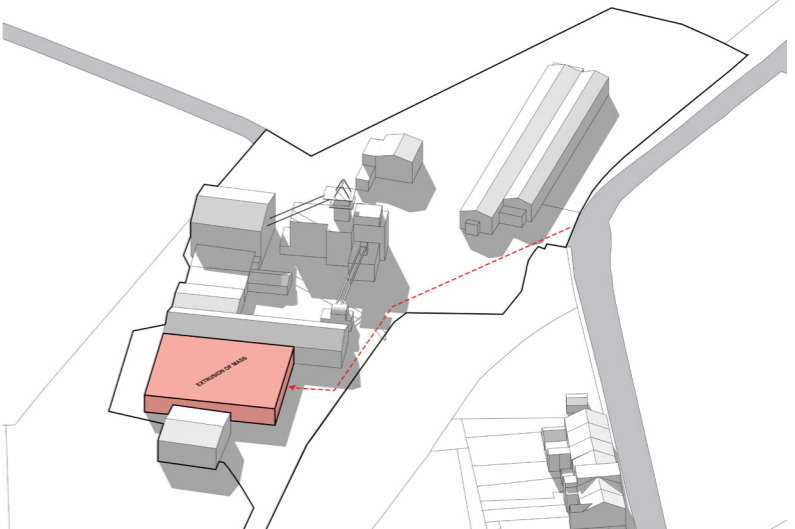
FORMATION OF ENCASING SQUARE AND CENTRE POINT VIA CONNECTIVE BUILDINGS



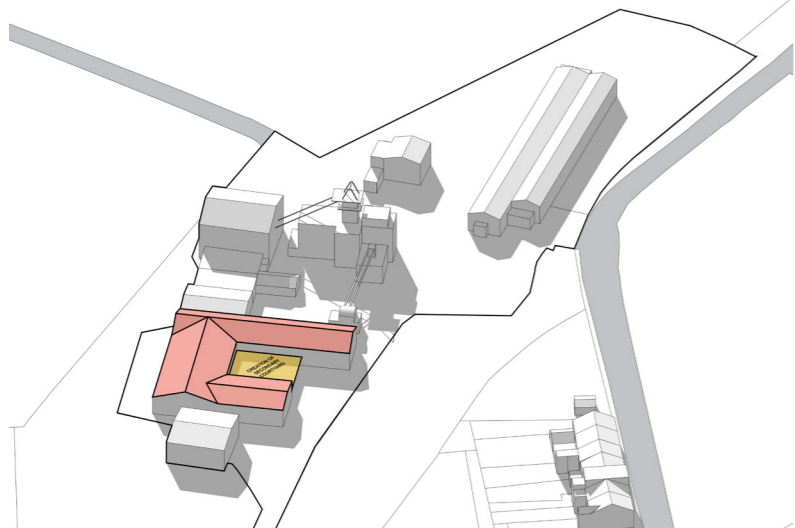
REFINEMENT OF MASSING TO MATCH THE SURROUNDING



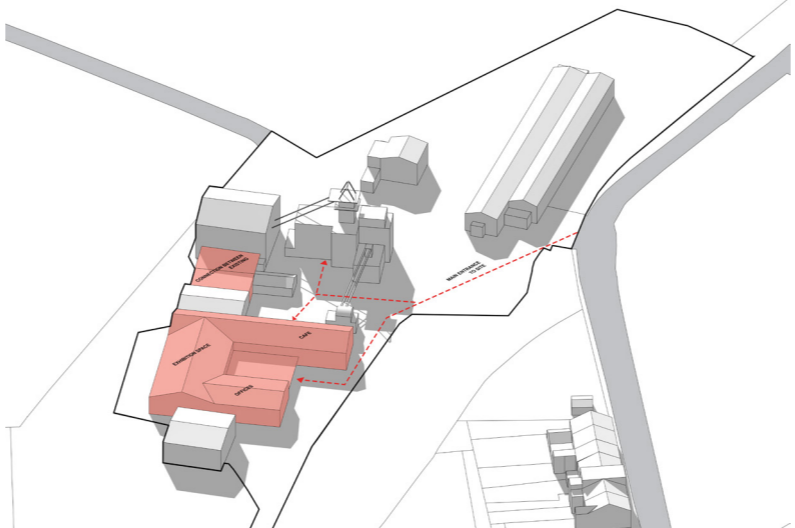
UTILISATION OF EASTERN AREA OF SITE AS POTENTIAL FOR INCREASED FLOOR SPACE AND SECONDARY MASS



ACCESS TO PROPOSED EXTENSION AND MASSING



REFINEMENT OF MASS TO FORM SECONDARY COURTYARD



FUNCTION OF MASSES AND CIRCULATION OF SITE

FUNCTION / DESCRIPTION / NUMBER OF SPACES	
<b>RECEPTION</b>	Proposed entry to the building and administration area. 1 Space
<b>EXHIBITION SPACE</b>	Space dedicated to telling the story of miners experience and paying homage to miners strikes. 3 Spaces
<b>TOILETS</b>	Accessible toilets for public building. 6 Spaces
<b>OFFICES/ SEMINAR ROOMS</b>	Extra space for any administration of building and bookable education. 2 Spaces
<b>CAFE</b>	Space for building revenue and seating/ eating area for visitors. 1 Space
<b>KITCHEN</b>	Facilities to facilitate Cafe. 1 Space

**FORMATIVE 1 REFLECTION**

THE FIRST FORMATIVE CONCERNED A SITE ANALYSIS AND CONCEPTUAL MASSING THAT RESPONDED TO GATHERED INFORMATION. THE FEEDBACK WAS FOCUSED ON A BETTER DEPICTION OF THE NARRATIVE THE PROPOSAL WAS RELIANT ON AND THE SUBSEQUENT DRAWINGS THAT CAME FROM THIS.



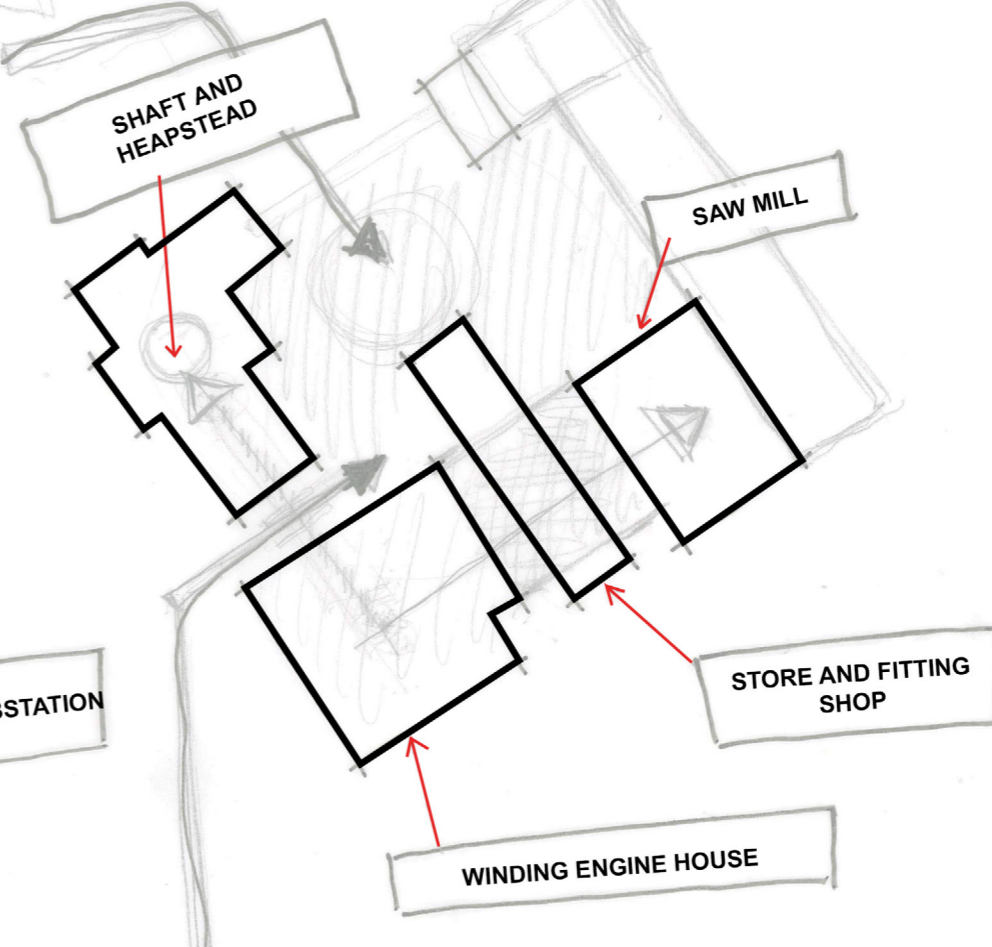
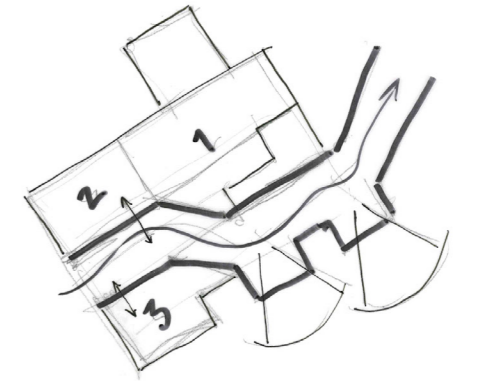
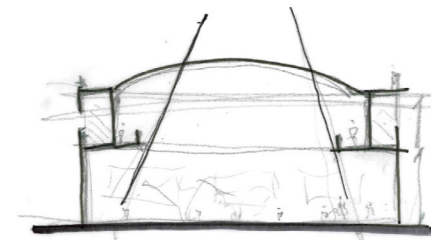
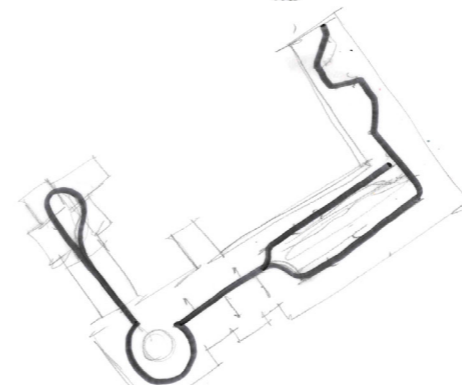
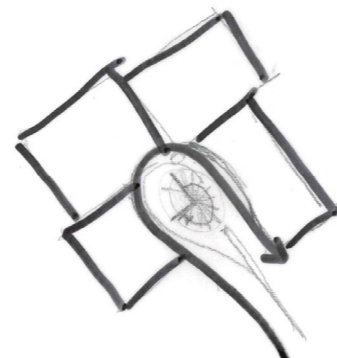
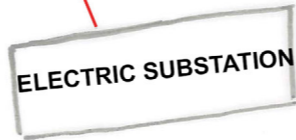
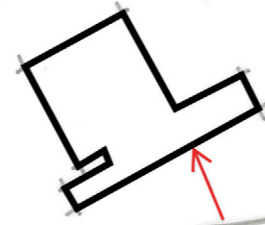
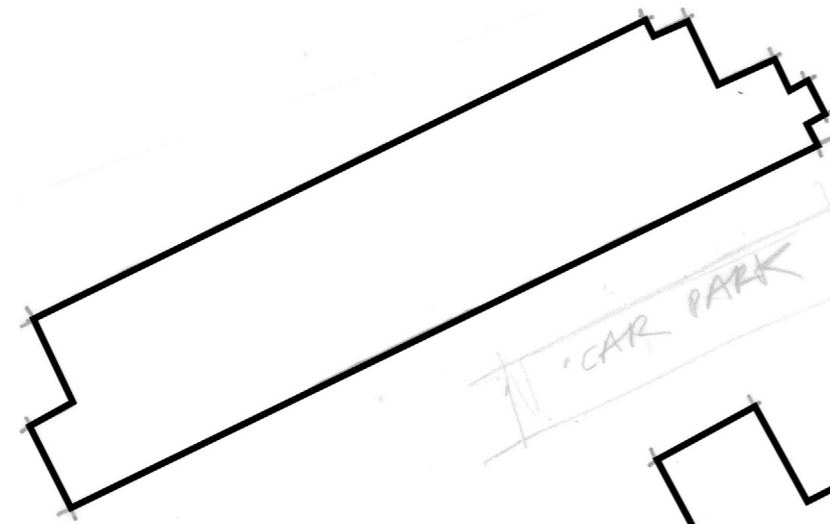
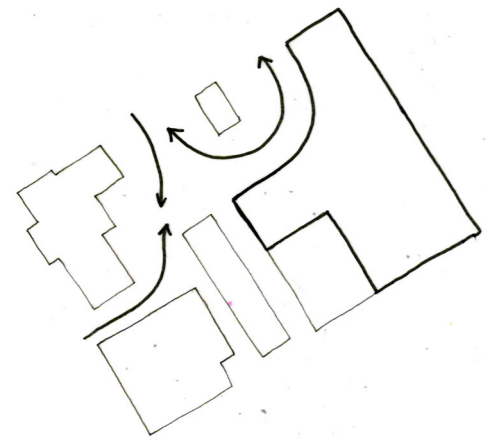
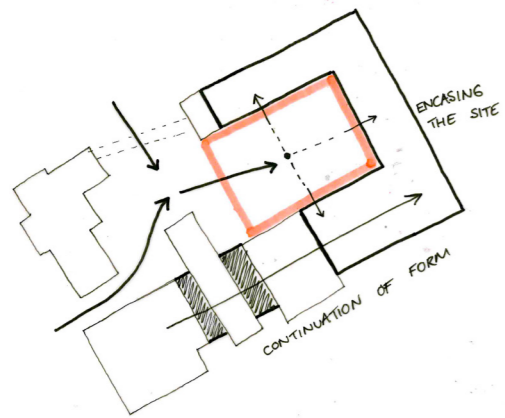
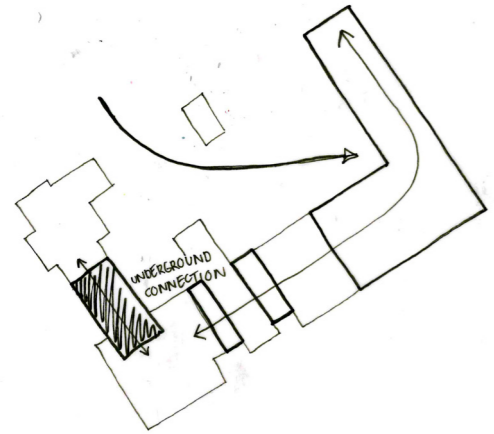
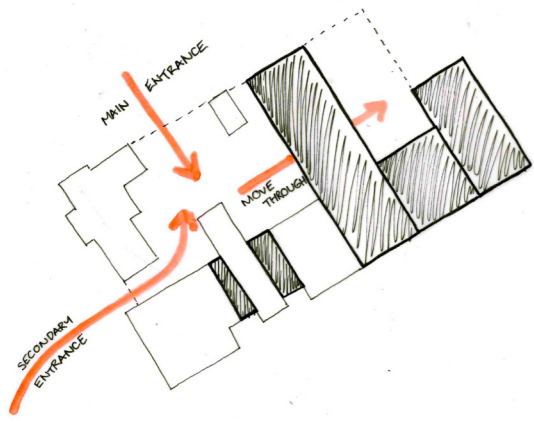
**SITE AND CONCEPT COLLAGE**

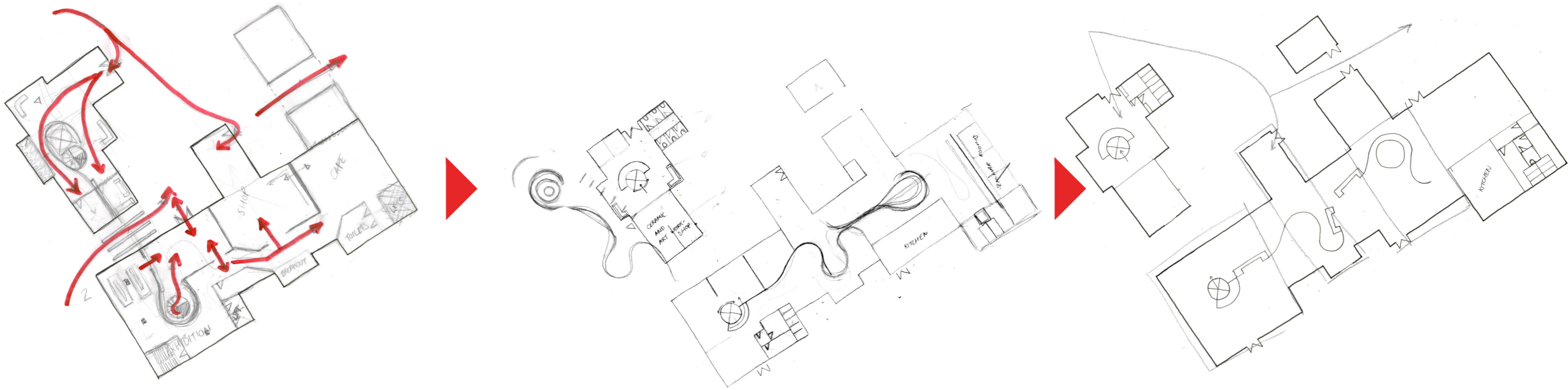
THE COLLAGE COMBINES IMAGERY FROM THE SITE AND RELEVANT HISTORIC PICTURES TO EXPLORE MATERIALITY, NARRATIVE AND THE EMOTIONAL BODY BEHIND THE EXHIBITION CENTRE. THE KEY THEME WAS AREAS OF HISTORY THAT DIVIDED BRITAIN, AND SO MARGARET THATCHERS MINING STRIKES IN THE 1980'S PRESENTED THE SUBJECT MATTER FOR A SEMIOTIC DESIGN THAT USED PHENOMENOLOGICAL PRINCIPLES TO COMMUNICATE THIS EMOTION.

# FLOOR PLAN DEVELOPMENT

HISTORIC FUNCTION SITE PLAN 1:500

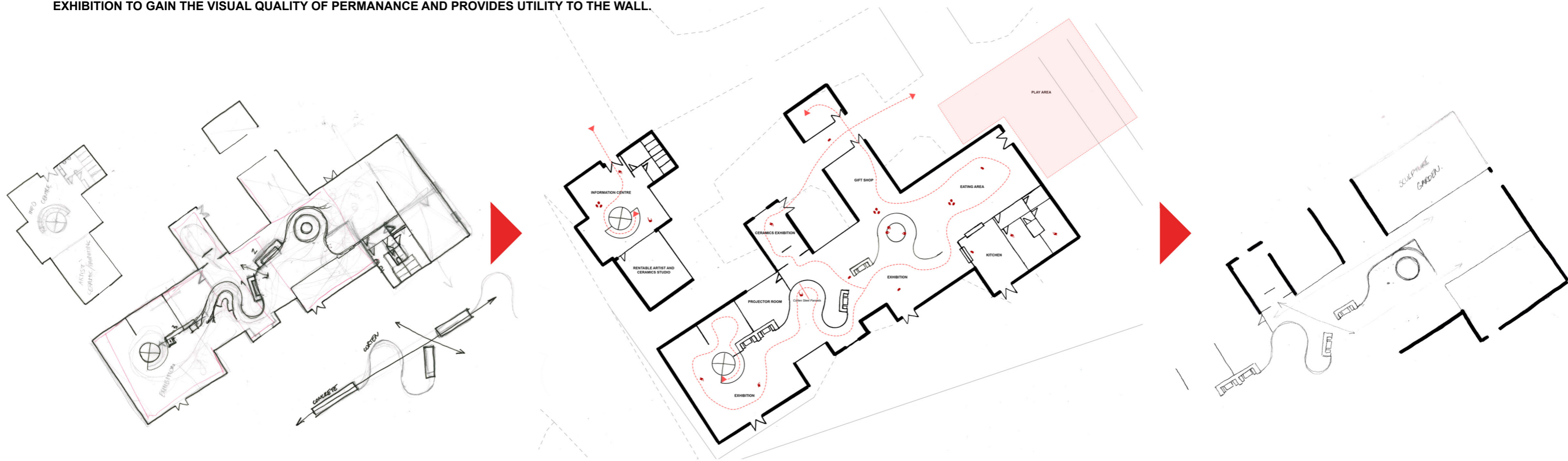
UNDERSTANDING THE PRIOR FUNCTION OF THE SITE FROM HISTORIC MAPPING WAS THE FOCUS DURING THIS STAGE. THIS WOULD INFORM DESIGN DECISIONS LATER IN THE DESIGN. INITIAL CONCEPTS FOR SITE ARE ALSO EXPLORED.





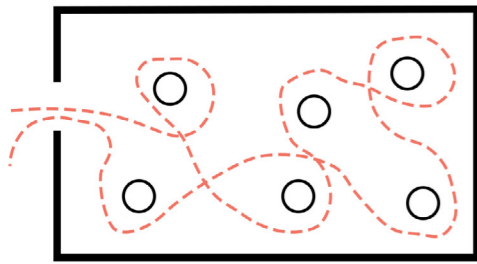
## FLOOR PLAN DEVELOPMENT

SEVERAL ITERATIONS OF THE FLOOR PLAN CONTINUED TO DEVELOP THE SCHEME AROUND THE TRANSITION FROM THE MINING EXPERIENCE AT BASEMENT LEVEL, TO LARGE OPEN, WELL LIT EXHIBITION SPACE. CIRCULATION PATTERNS ARE EMPLOYED IN THE FORMATION OF THE CORTEN STEEL WALLS. THICKER AREAS ALONG THIS WALL ALLOW FOR MOMENTS ALONG THE JOURNEY SUCH AS SEATING AND TABLES. THESE THICKER CONCRETE ELEMENTS ALLOW FOR THE EXHIBITION TO GAIN THE VISUAL QUALITY OF PERMANENCE AND PROVIDES UTILITY TO THE WALL.

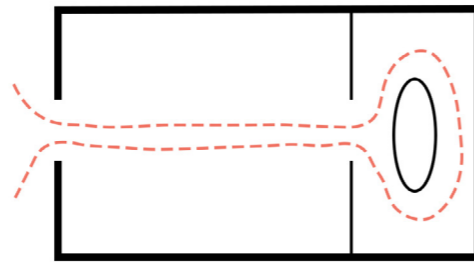


DIVERTING CIRCULATION PATTERNS

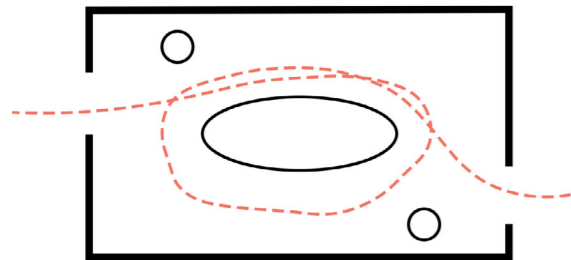
FREE MOVEMENT



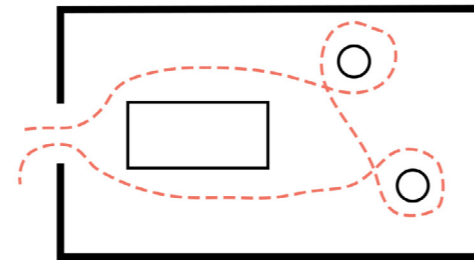
INNER SANCTUM



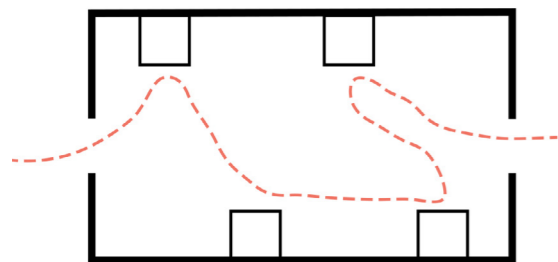
HERO OBJECT



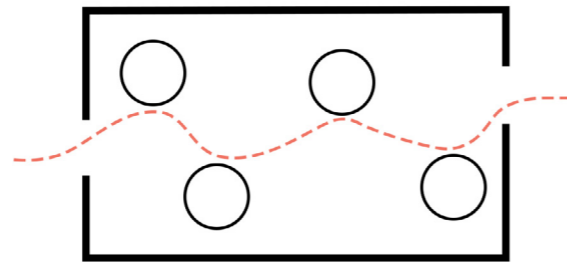
IN AND OUT



LILY PAD FLOW

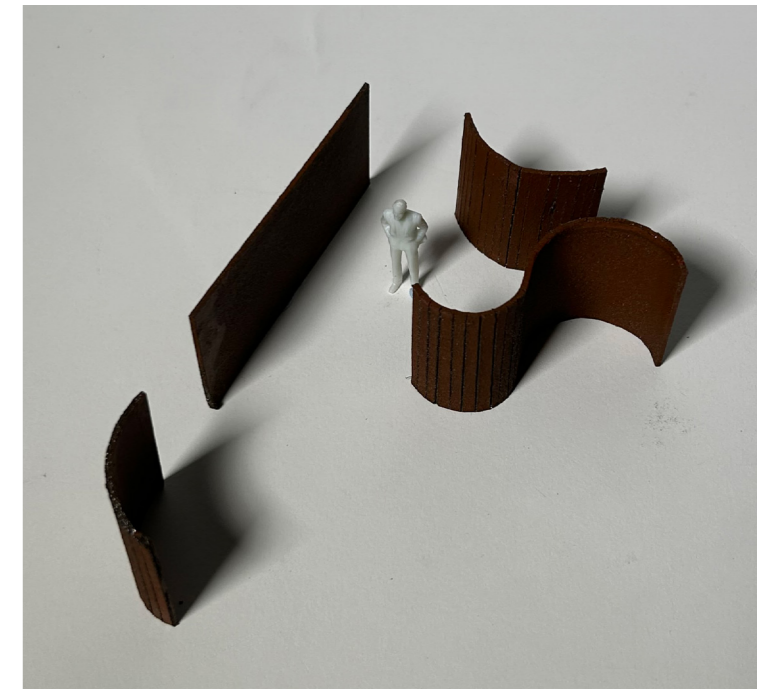
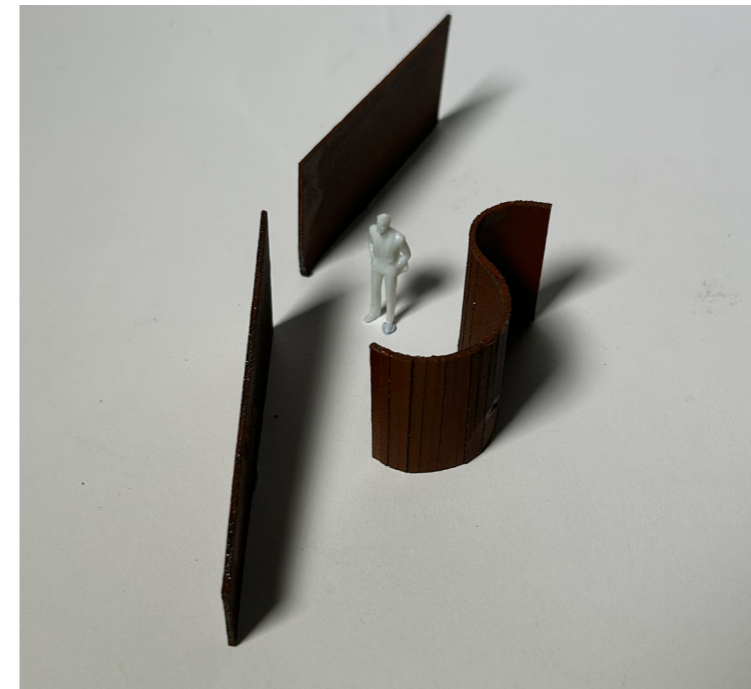


GIVEN ROUTE

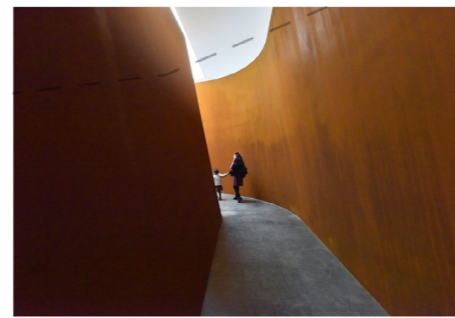


MODEL MAKING PROCESS 1:200

THESE MODELS EXPLORE DIFFERENT CONCEPTS FOR CIRCULATION PATTERNS FORMING EXHIBITION SPACES. THE MODELS EMULATE THE CORTEN STEEL PANNELS SHOWN ON THE DESIGN AND LEAD TO THE FINAL PROPOSAL LAYOUT.

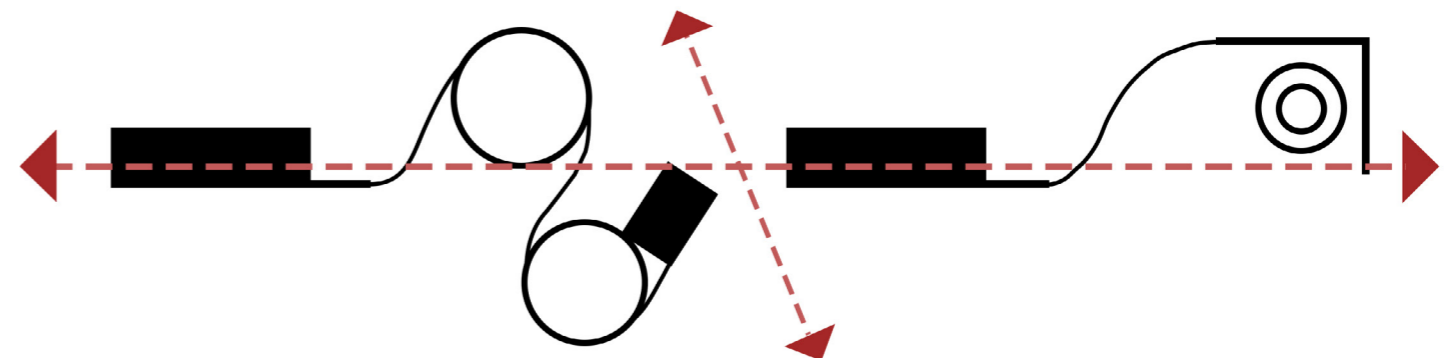


PARTI DIAGRAM FOR INTERIOR EXHIBITION



PRECEDENT STUDY - RICHARD SERRA

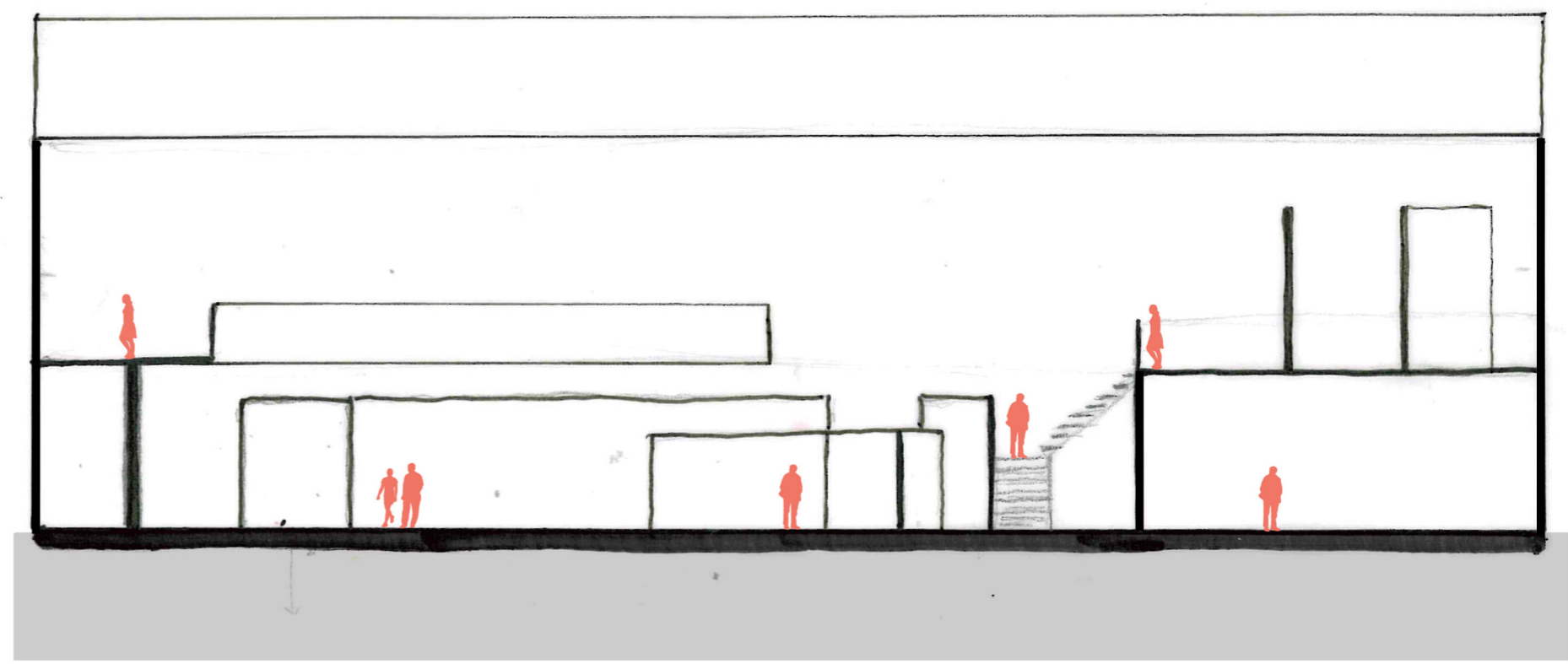
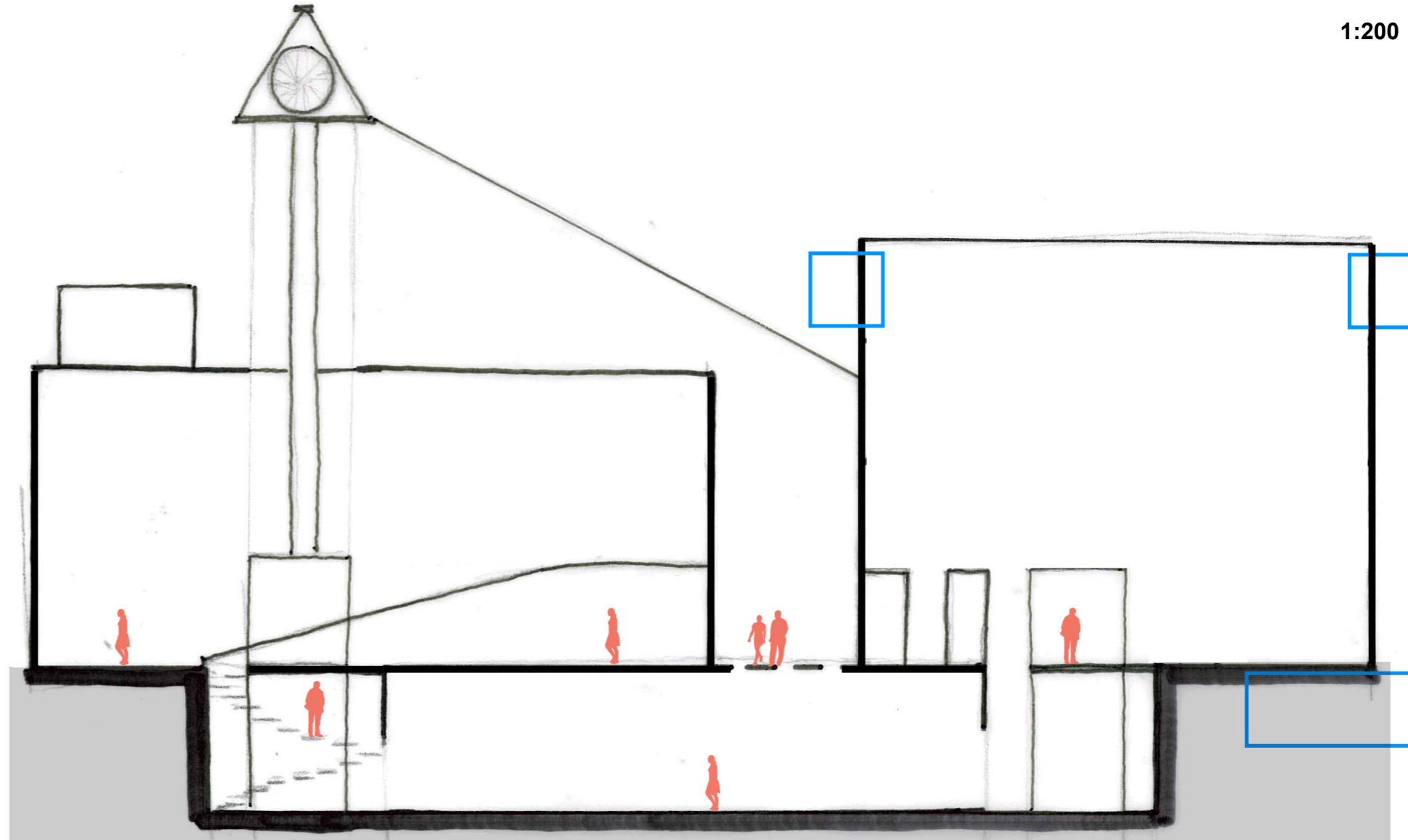
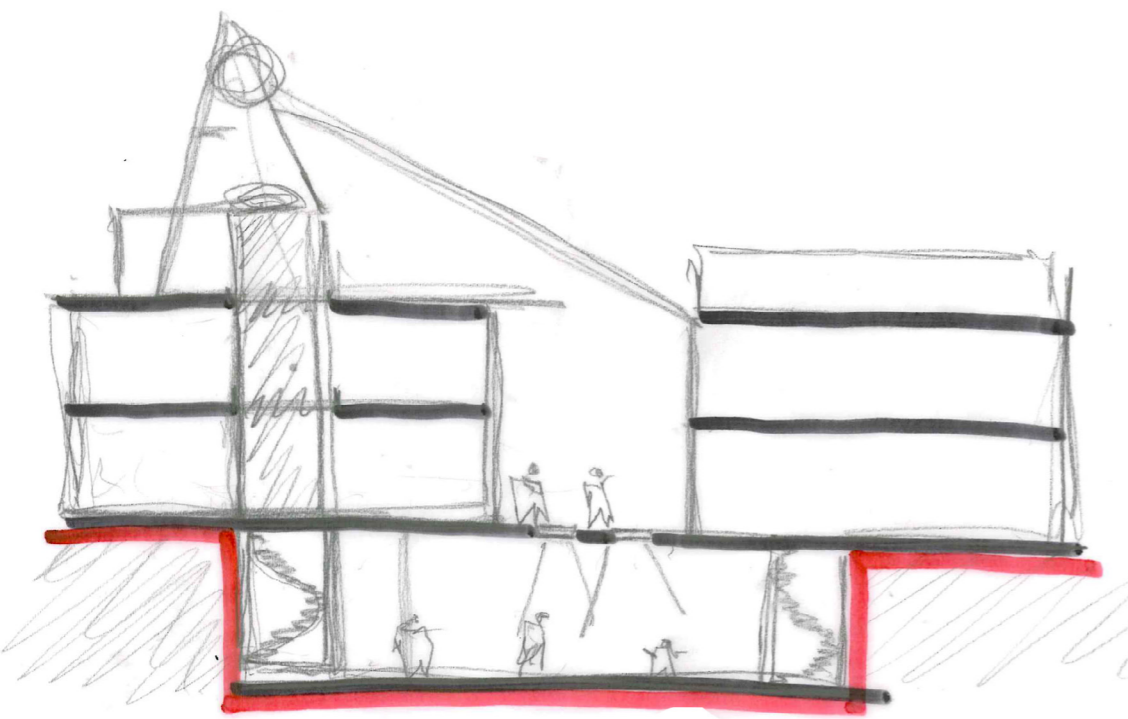
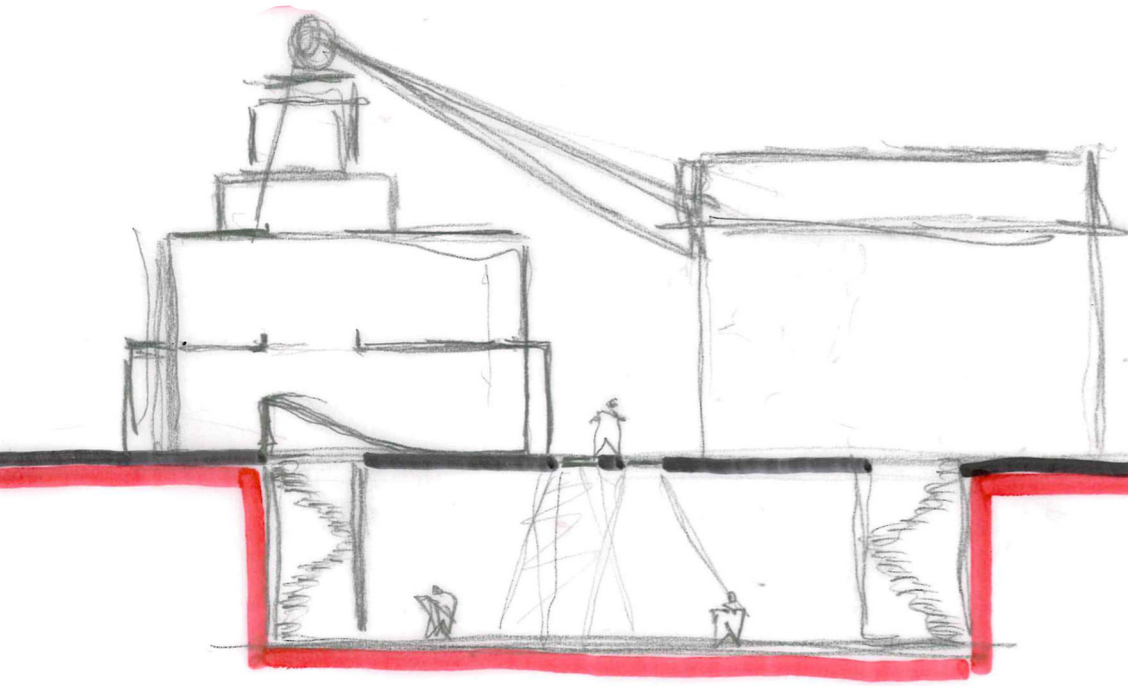
RICHARD SERRA USES CORTEN STEEL PANNELS AS SCULPTURAL ELEMENTS TO FORM UNIQUE AND ORGANIC SPACES. WITH THE SAME MATERIALITY AS THE PROJECTS FACADE, THESE THIN PANNELS COULD BE USED TO MANIPULATE CIRCULATION PATTERNS AS TESTED THROUGH MODEL MAKING.



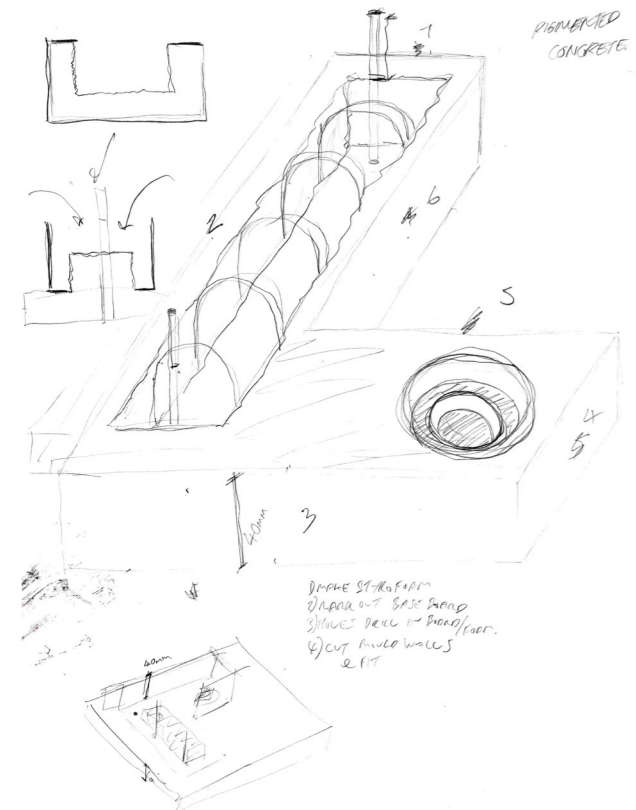


## FORMATIVE 2 REFLECTION

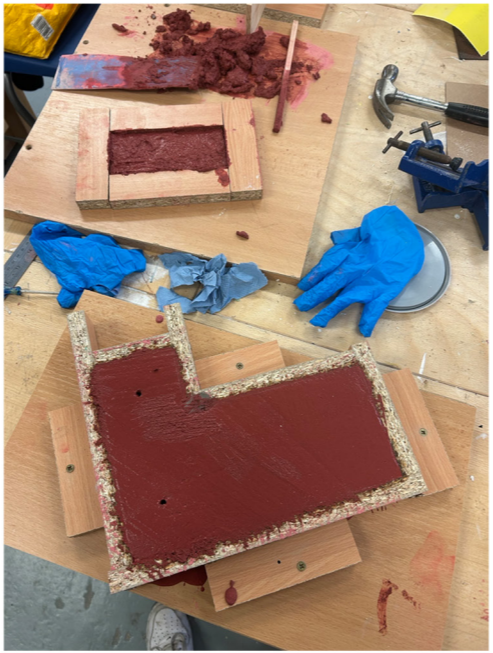
FORMATIVE 2 SOLIDIFIED THE DESIGN AT FLOOR PLAN LEVEL ALLOWING THE BUILDING TO BE DRAWN TO A HIGHER STANDARD FROM THIS POINT. DETAILING AND FURTHER SECTIONAL EXPLORATION WAS REQUIRED. ALSO, EXPLORING THE DESIGN THROUGH PHYSICAL MODELS WAS ALSO THE FOCUS FOR THE FOLLOWING FORMATIVE.



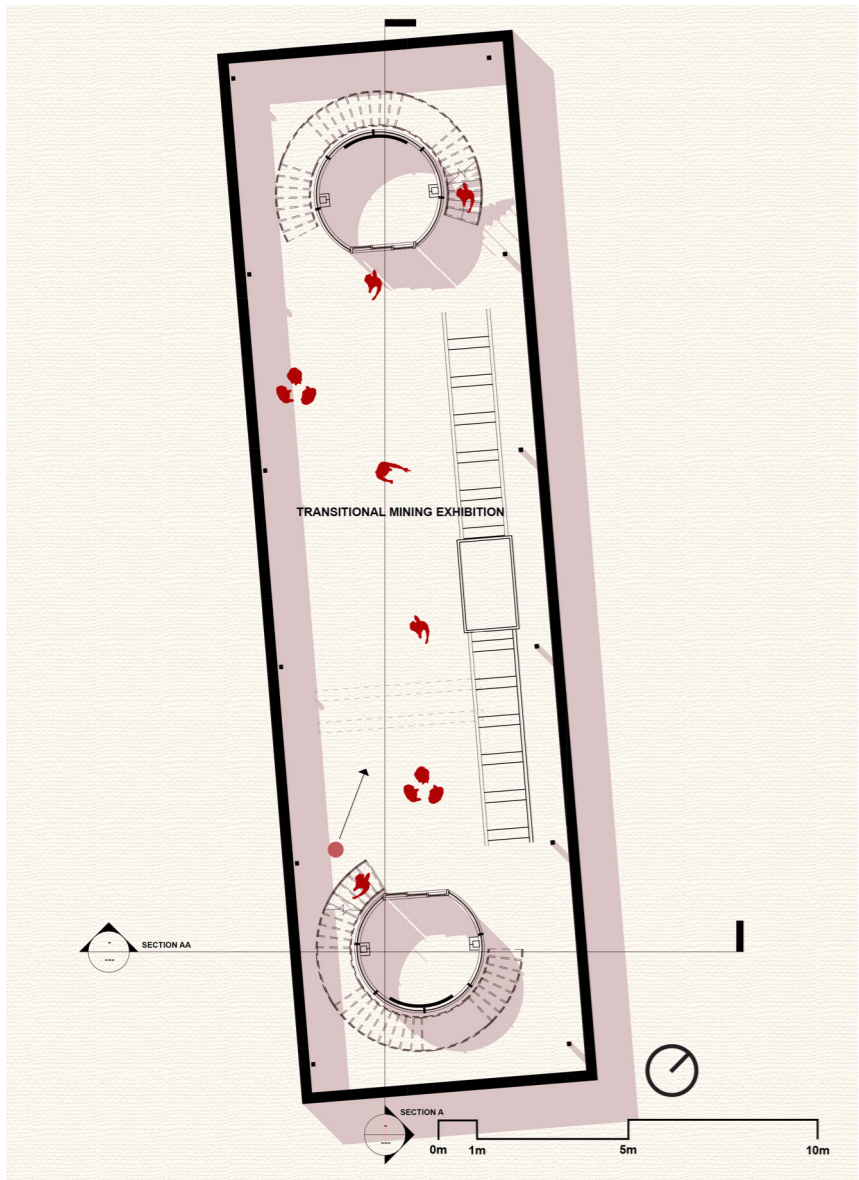
**MODEL MAKING PROCESS**



**BASEMENT FLOOR PLAN 1:200**

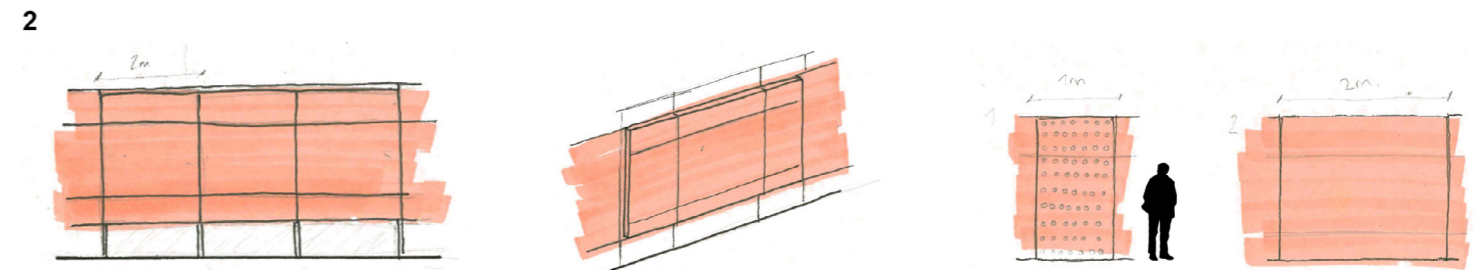
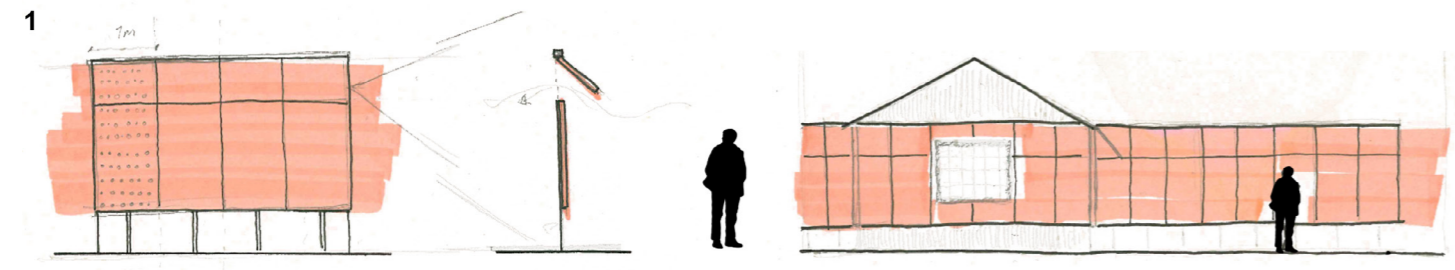


**CONCRETE BASEMENT MODEL 1:200**



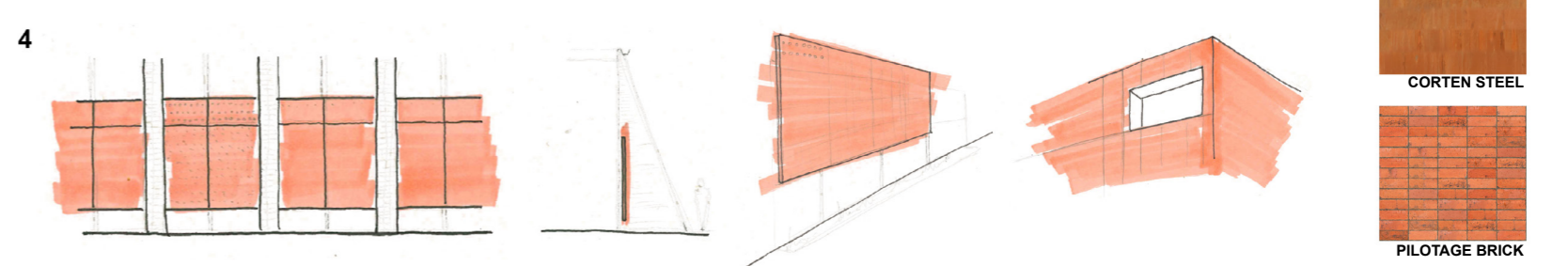
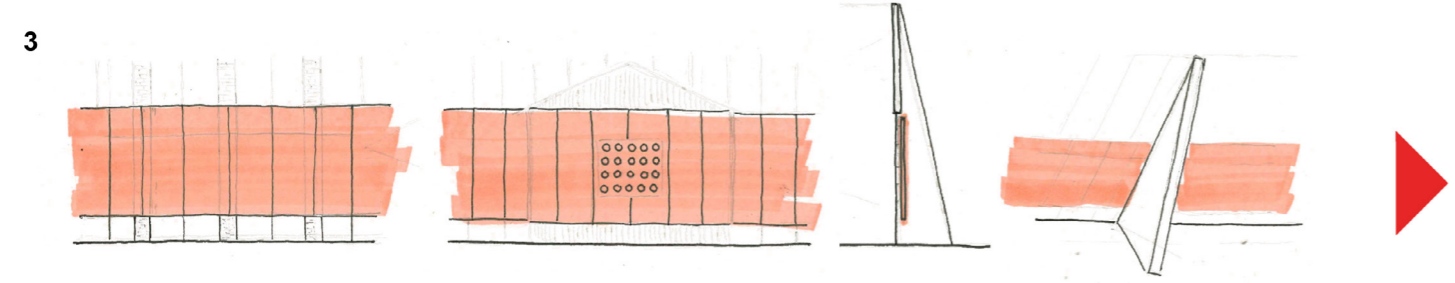
**MODEL MAKING PROCESS**

THIS MODEL WAS CREATED AT 1:200 SCALE IN RESPONSE TO FORMATIVE 2. MODEL MAKING BECAME A FOCUS IN EXPLORING THE SPACES I DESIGNED AND THE BASEMENT AREA WAS A PARTICULAR AREA OF INTEREST. PIGMENTED CONCRETE WAS USED TO EMULATE THE TEXTURAL AND AESTHETIC QUALITY FOUND ON THE SITE.

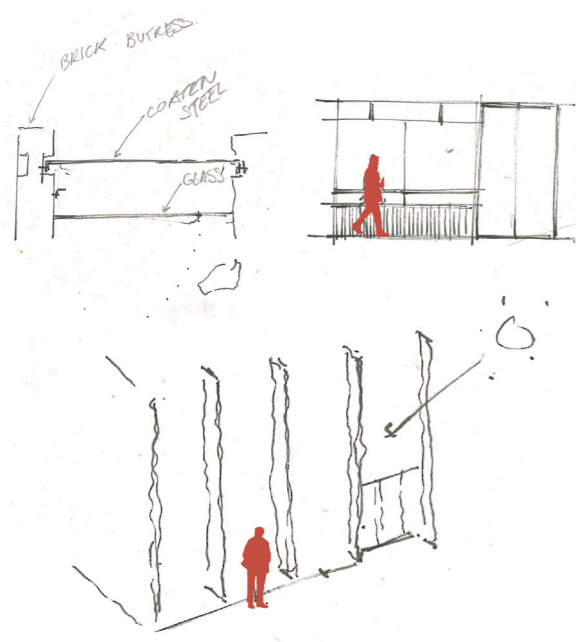


**ELEVATION DESIGN PROCESS**

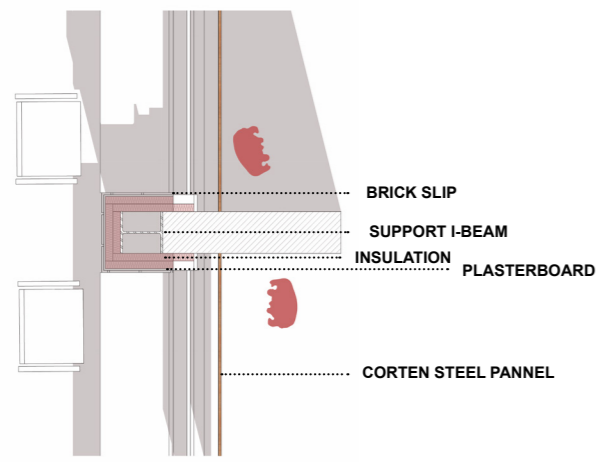
THE MATERIALS USED AIM TO EMULATE BOTH THE COLOUR OF THE SITE AND THE WEATHERED AESTHETIC OF THE COLLIERY BUILDINGS THAT EXIST ON SITE. THE PRIMARY CONCEPTS FOR THE FACADE DESIGN REVOLVED AROUND VERTICAL RYTHM AND HORIZONTAL DATUM LINES THAT ARE RELATABLE AT A HUMAN SCALE. THE CORTEN STEEL PANNELS ACT AS A WRAP AROUND THE PROPOSAL FOLLOWING THE DATUM HEIGHT LINES AND BECOMING AN AESTHETIC FEATURE OF BOTH THE INTERIOR AND EXTERIOR FACADE.



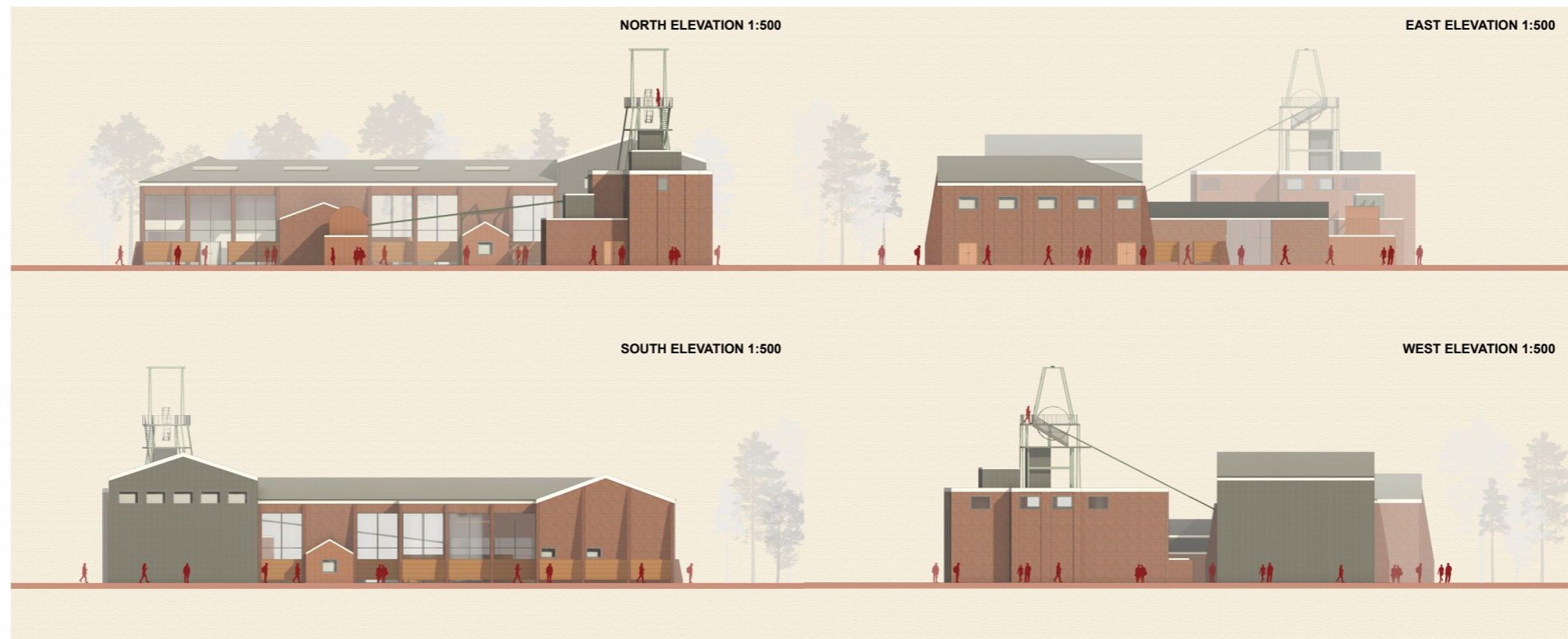
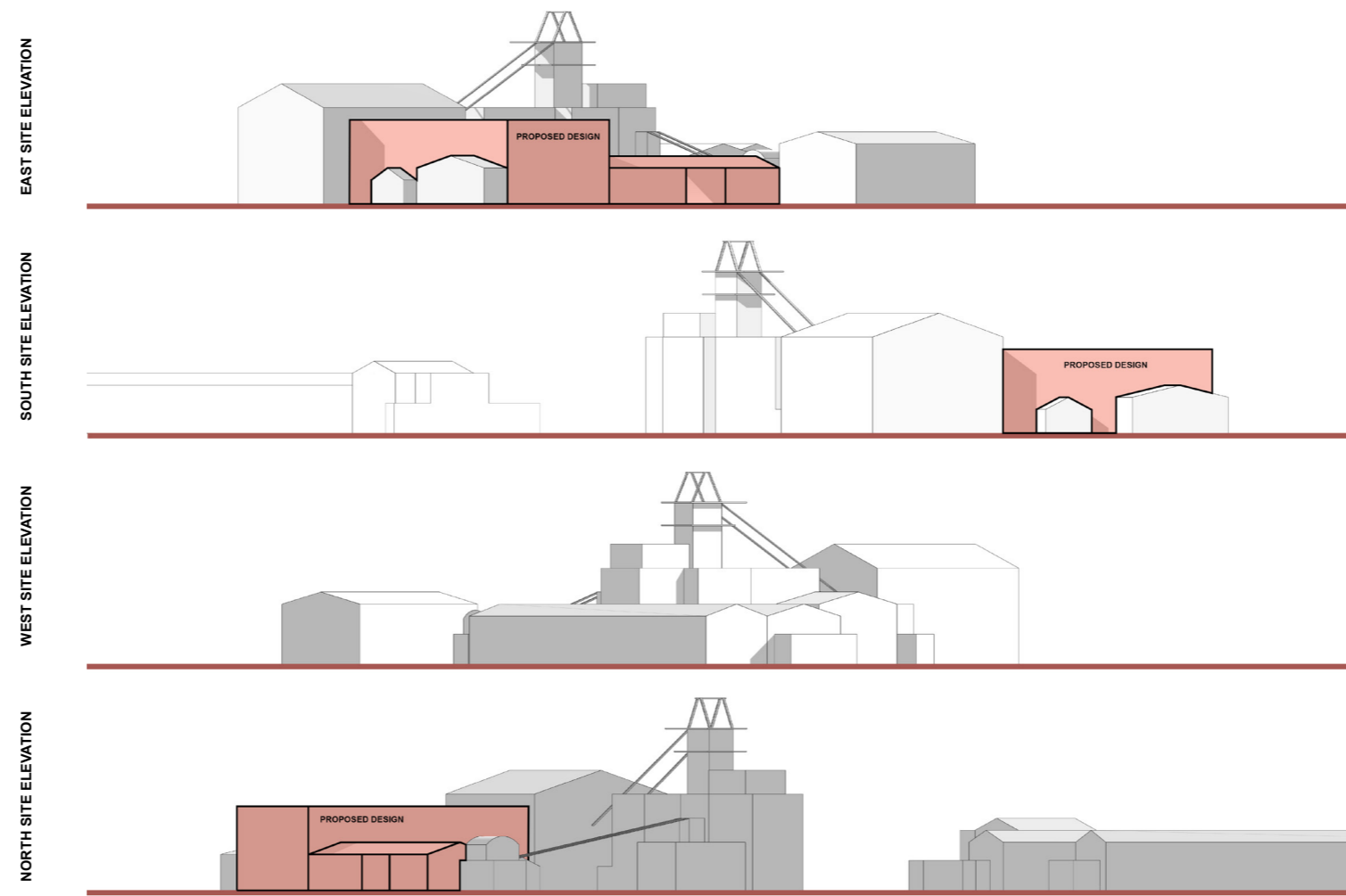
**FACADE DESIGN PHYSICAL MODEL 1:50**



**PROPOSAL BUTRESS PLAN DETAIL 1:20**

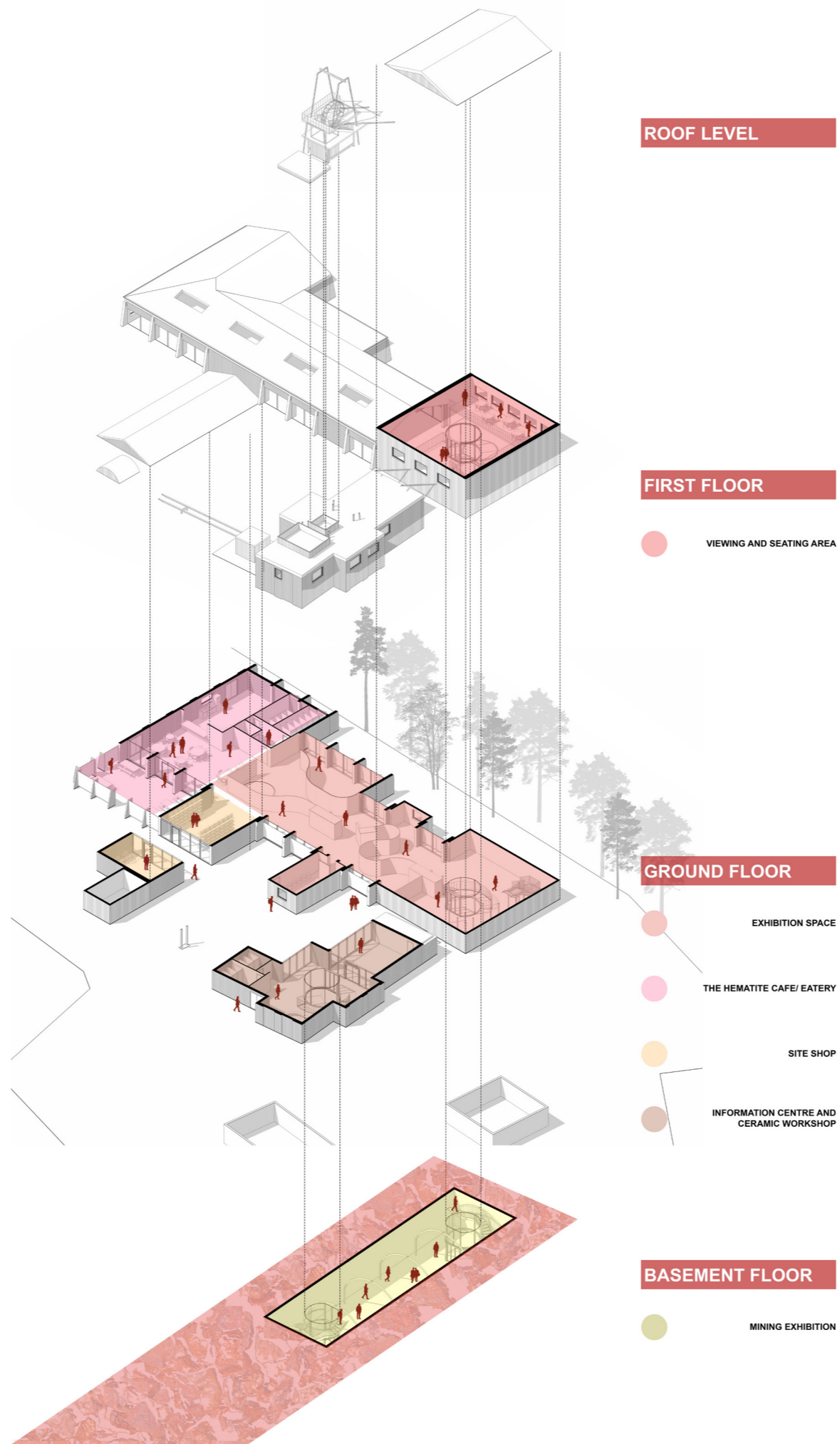


INITIAL ELEVATION VIEWS OF MASSING



FORMATIVE 3 AND 4 REFLECTION

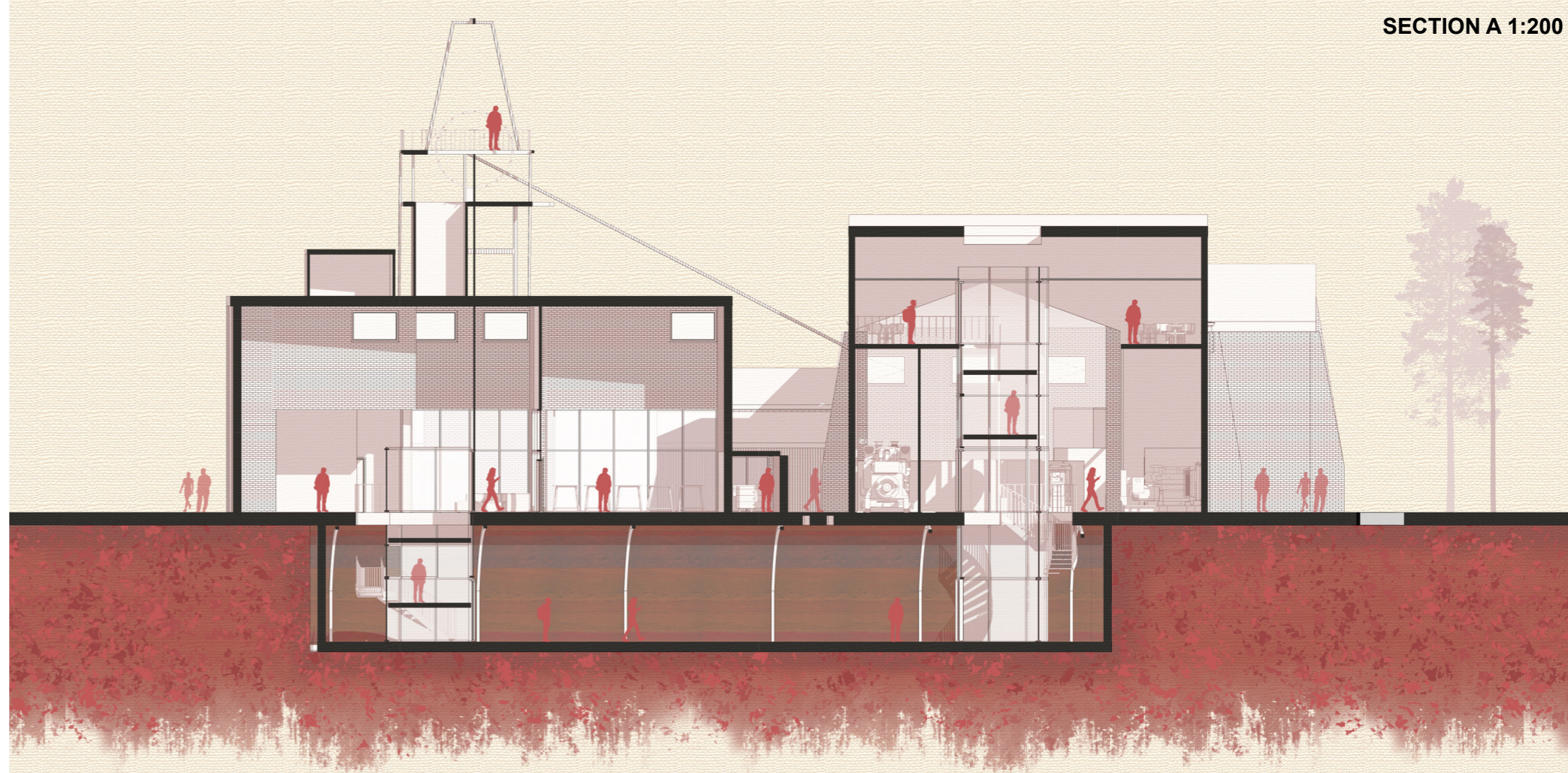
HAVING PRODUCED THE PHYSICAL MODELS FOR THE PROJECT, FEEDBACK NOW ORIENTATED AROUND THE CREATION OF A 3D MODEL AND TECHNICAL DRAWINGS FOR ALL CONVENTIONAL DRAWING METHODS. VISUALS ARE ALSO NOW THE FOCUS IN REPRESENTING THE SPOKEN QUALITIES OF THE INTERIOR AND EXTERIOR SPACE DESIGNED. MINOR CHANGES TO DETAILING AND AN UNDERSTANDING OF THE PROPOSED STRUCTURAL APPROACH FOLLOWED THESE FORMATIVES.



FACADE INTERIOR AND EXTERIOR VISUALS



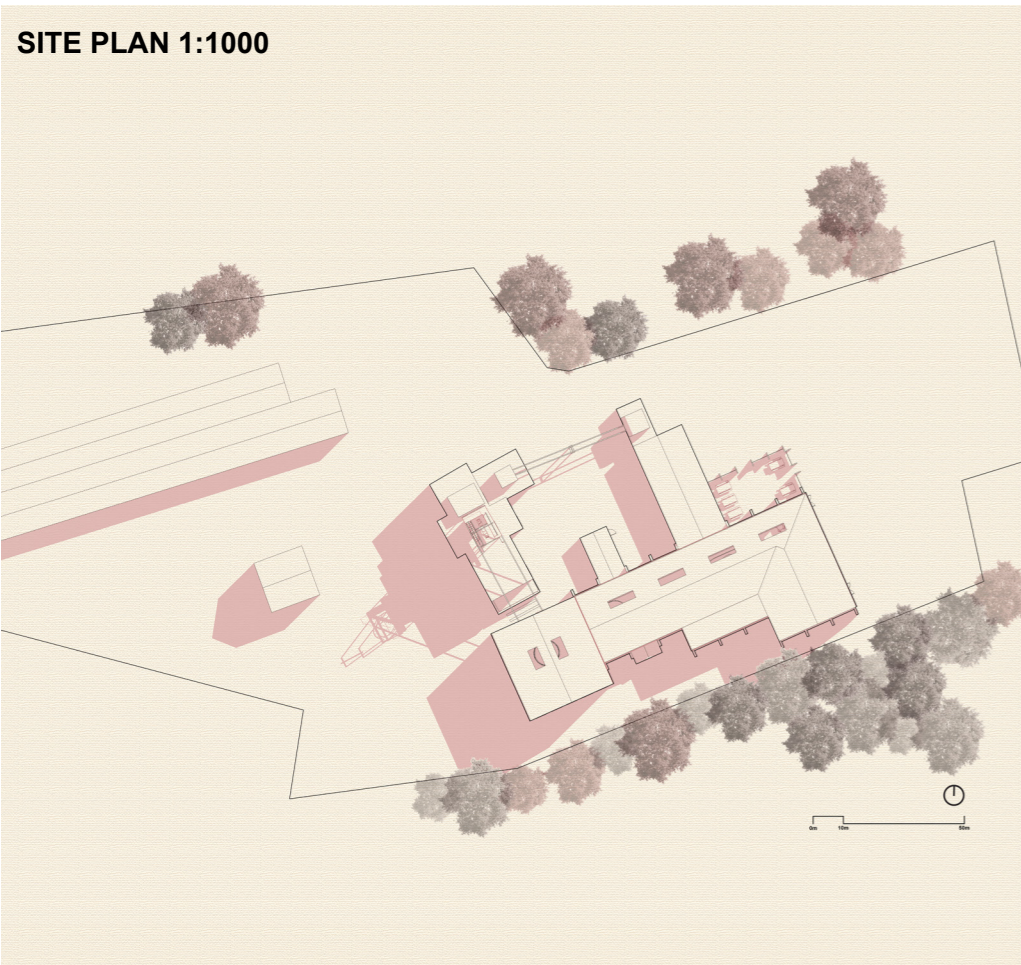
SECTION A 1:200



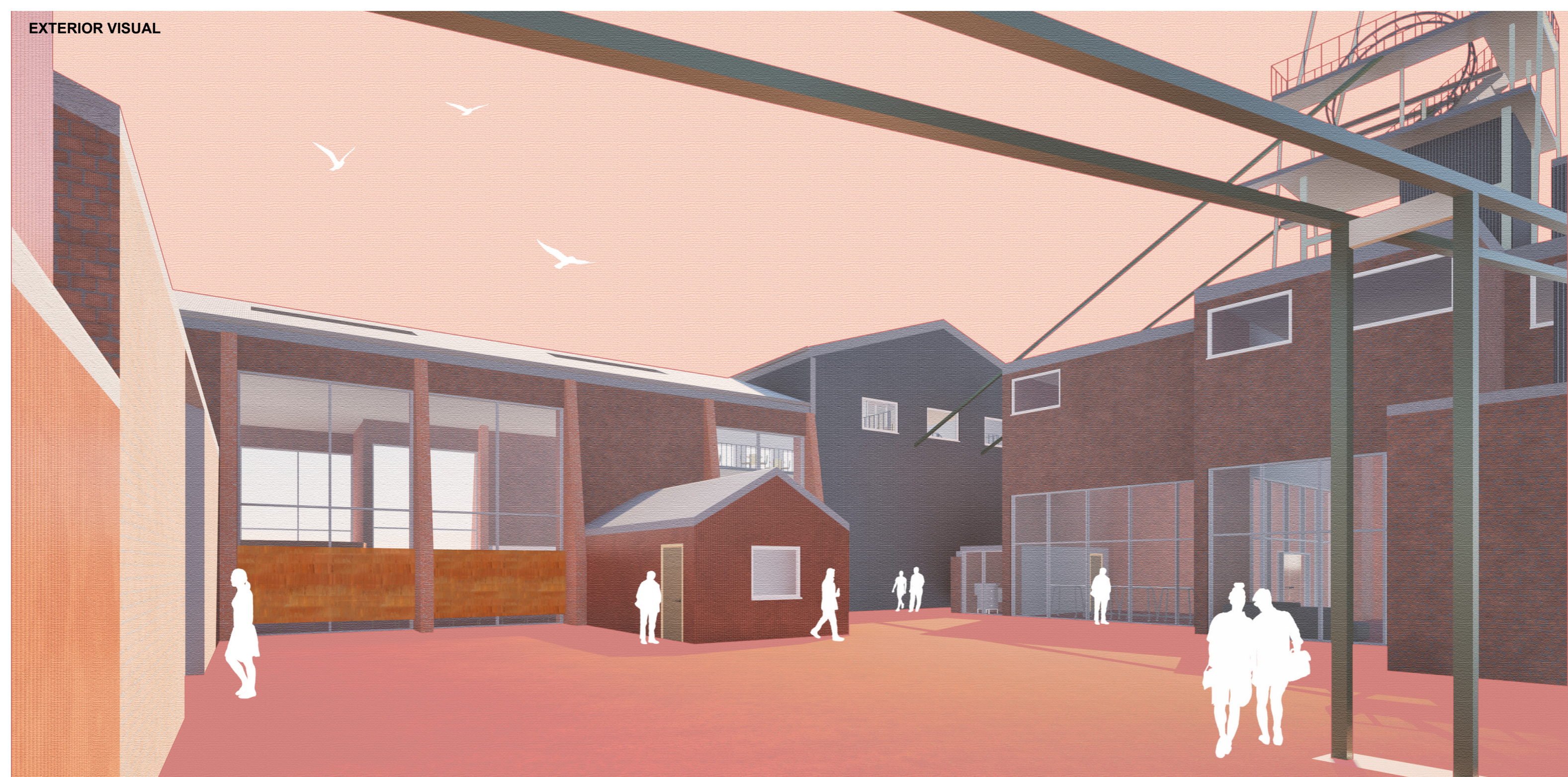
SECTIONAL STUDY AA 1:200



SITE PLAN 1:1000



EXTERIOR VISUAL



INTERIOR VISUALS

