

### THE BODLEIAN LIBRARY



The Bodleian Library is the main research library of the University of Oxford, and is one of the oldest libraries in Europe. With over 12 million items, it is the second-largest library in Britain after the British Library.

### THE VATICAN LIBRARY



The Vatican Apostolic Library, more commonly called the Vatican Library or simply the Vat, is the library of the Holy See, located in Vatican City. Wikipedia

### THE BRITISH LIBRARY



The British Library is the national library of the United Kingdom and the largest library in the world by number of items catalogued. It holds well over 150 million items from many countries

### THE LIBRARY OF ALEXANDRIA



The Royal Library of Alexandria or Ancient Library of Alexandria in Alexandria, Egypt, was one of the largest and most significant libraries of the ancient world. It was dedicated to the Muses, the nine goddesses of the arts.

## PHYSICAL POSTER

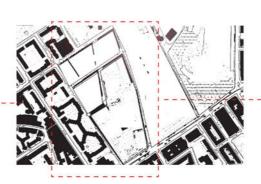
### The British Library

The British Library is the national library of the United Kingdom and the largest library in the world by number of items catalogued. It holds well over 150 million items from many countries.

My observation's focal point: The King's library tower // UG to level 3.

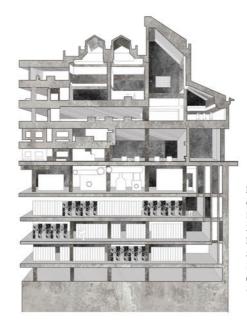








Located in St Pancras



Building height (above ground): 47.07m Depth below ground: 24.54m Brick: 10 million Steel reinforcement: 150,000 tonnes Concrete: 180,000 tonnes

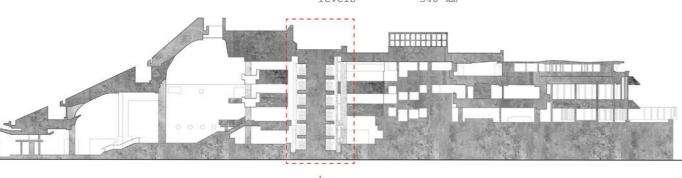






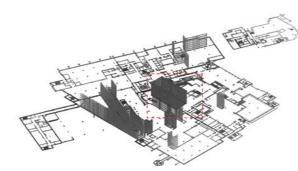
basement levels reading room levels

shelving 340 km

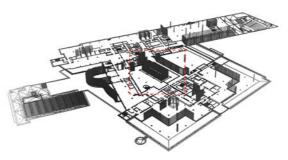


Houses books collected by King George III 65,000 volumes of printed books 19,000 pamphlets Six-storeys UV-filter glass

The King's Library



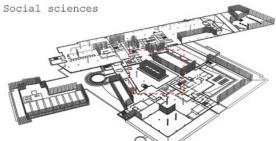
UPPER GROUND King's Library Main entrance Reader registration



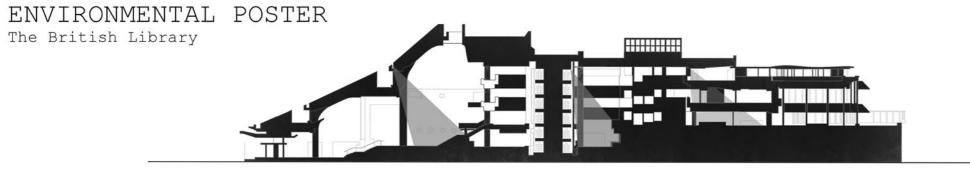
LEVEL TWO Restaurant Conservation uncovered Reading rooms: Humanities Manuscripts Science



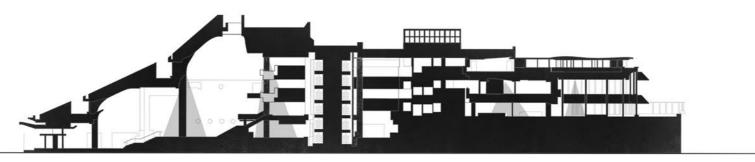
LEVEL ONE Newsroom Reading rooms: Humanities Rare books and music



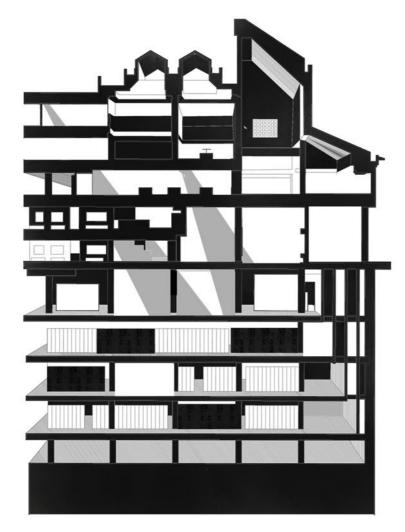
LEVEL THREE Reader's lounge Newsroom Reading rooms: Asian and african studies Maps Science



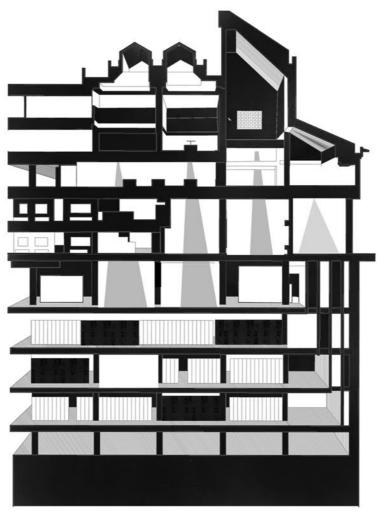
Natural lighting.



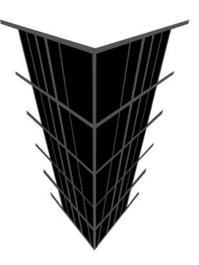
Artificial lighting.

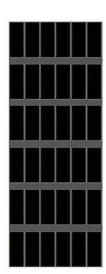


Natural lighting.



Artificial lighting.

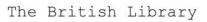


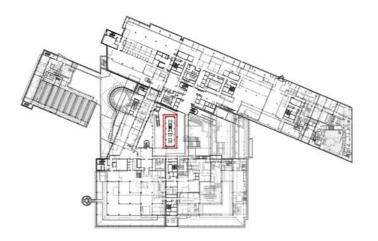




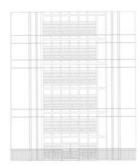
After a technical evaluation, LED lights were chosen for lighting and protecting the kings library. Using the latest solid-state, surface-mount LED technology, 1800mm 6ft) LED Tubes, could achieve the precise colour temperature and lighting levels whilst reducing the power consumption by over 60%. Additional savings are also achieved in running the environmental control system as the heat output of an LED Tube is significantly less than that of a fluorescent. The books are on view to visitors behind UV-filter glass which, together with the environmental control system, helps maintain appropriate light, temperature and humidity levels.

## INFRASTRUCTURAL POSTER



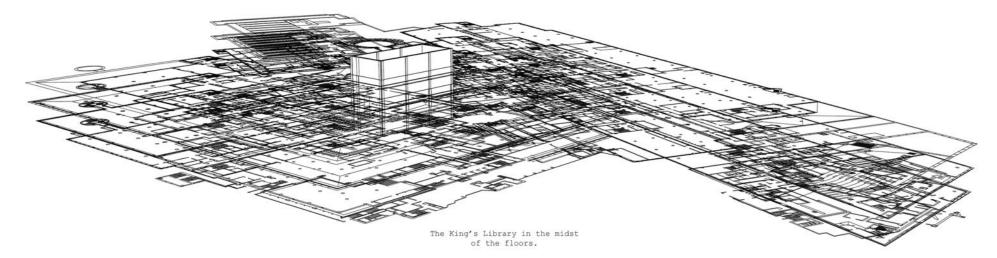


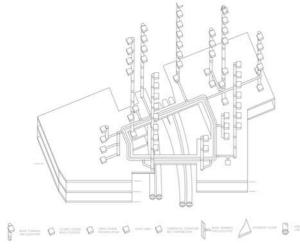
The King's Library in plan.

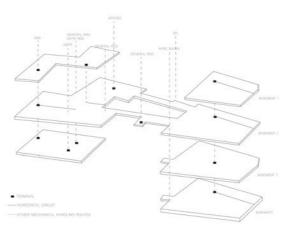


	ADDITION AND RESERVED

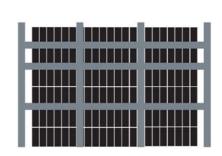
A study of The King's Library.

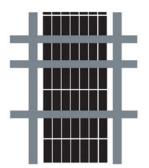


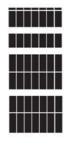


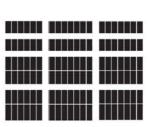


The journey of a book.

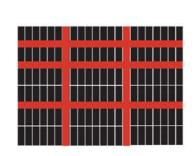














A study of movement through secret entrances. The diagrams shows the relationship between the floors connected to the pillars and kings tower and how a secret passage way can be created using this structural relationship.







floors and pillars

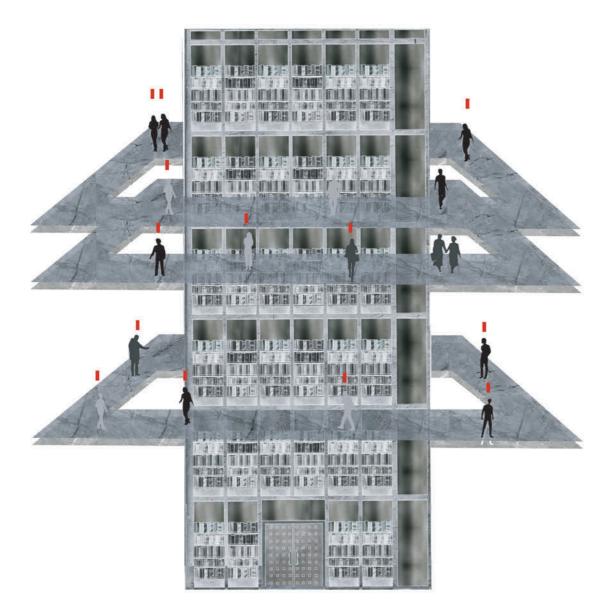
the king's tower

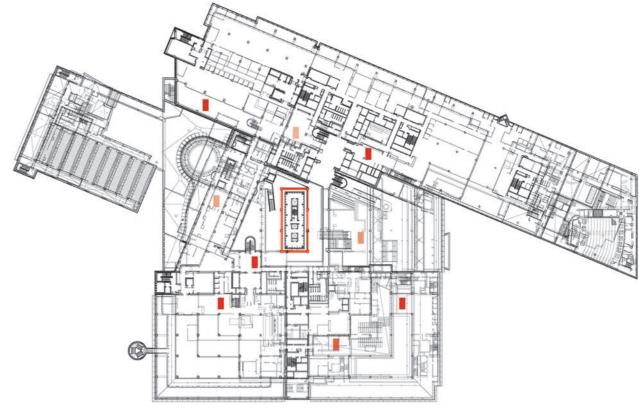
# EPHEMERAL POSTER The British Library

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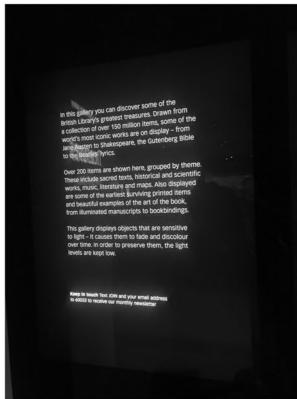
The King's library was designed to be a 'universal' library; one that represented all the world's knowledge. The collection covered a vast range of subjects, from early printing and philosophy to architecture, topography and painting; from astrology and biology to agriculture and ancient languages. It included books by Jews, Muslims, Catholics and Protestants.

This narrative tells a story of the books in the King's library becoming one and subliminally influencing the users of the Library.

## FOCAL RESEARCH

The recurring subject on each of my visits to the libraries was the emphasis on the protection of books and precious items. It became clear to me that the environment of the libraries would have to go to lengths to protect the objects. I translated this as books having the power to control their environment and even the librarians in order to meet their needs and have protection. And so this began the idea of flipping this around and designing a building that controls the fate of the books and the books therefore lose the power of being protected.





Notices to the public for the protection of books in the British Library.

HANDLING		
Type of Handling	Damage	
Removing books from the shelf by hooking the top or edges of the spine with fingers.	Splitting and eventual loss of spine covering material and endbands, especially in hollow back books.	
Replacing books on shelves without ensuring that there is enough room and/or hitting shelf in the process.	Book corners will be damaged. Sometimes leads to text block damage, and damage to the bindings of adjacent books.	
Opening books wider than the binding structure will allow or without supports <sup>8</sup> .	Splitting of sewing thread or glues along spine and compression of covering materials, leading to complete breakdown of the structure.	
Piling books up haphazardly or too high.	Damage to bindings and increased risk of books falling, leading to detached covers and broken sewing.	
Using ink pens - biros, fountain pens, felt tips etc. instead of pencils.	Indelible or tenacious marks.	
Inserting slips of paper to mark leaves but not removing them after use.	Chemical damage to leaves unless slips are acid- free and lignin-free. Dirt ingress causing staining and increased risk of mould/insects. Distortion of book structure.	
Using Post-it notes to mark leaves.	Stains and sticky residues causing long-term damage, especially to leaves.	

STORAGE			
Problem	Damage		
Books leaning over.	Permanent distortion and eventually detached boards.		
Shelf too full of books.	Distortion. Broken spines and joints when books are retrieved.		
Shelf not full enough.	Distortion. Risk of material falling off shelves.		
Books of disparate height or depth shelved next to one another.	Distortion of bindings and text blocks, cracked joints.		
Books stored in piles that are too high or not graded up from largest item at bottom to smallest on top.	Distortion. Risk of material falling when books are retrieved.		
Books stored fore-edge down.	Distortion. Severe structural damage.		
Tall books (generally 45cm or more) stored upright.	Distortion. Excessive strain on bindings.		
Books stored on shelving that is not deep enough.	Distortion. On mobile shelving there is a risk of protruding books hitting material on the opposite shelf.		
Recess at ends of shelves.	Lost (hidden) books. Risk of mould growth in microclimate.		
Lip on shelf or above it.	Risk of damage when books are retrieved, especially to tall books.		
Protruding screws and shelf supports.	Scratched and/or indented binding.		
Shelving without full-depth backs or full-height sides.	Distortion. Risk of books falling off shelf.		
Rough or split shelves.	Abrasion.		
Overlong shelf span.	Bowing shelf. Distortion. Risk of damage when material retrieved.		

ENVIRONMENT			
Factor	Level	Damage	
Relative humidity	High (above 65%)	Mould growth and insect infestations. Rusting staples, pins and clips. Increase in the rate of chemical degradation of paper by acid- catalysed hydrolysis. Corrosion of iron gall inks <sup>4</sup> . Increased evidence of foxing <sup>2</sup> .	
(RH)	Low (below 40%)	Reduced flexibility, particularly of parchment, vellum and leather. If combined with high temperatures, embritlement of binding materials, structures and leaves.	
	Fluctuating	Distortion of bindings and text blocks, especially if books of different sizes are shelved together.	
	High	If combined with low RH levels, drying, curling and distortion of paper.  If combined with a high RH, accelerated mould growth.	
Temperature	Low	Generally fewer problems unless dose to freezing, when fats in leather congeal and reduce flexibility. Combined with moderate or low RH provides good storage conditions for many materials.	
Light	All	All light, whether natural or artificial, causes damage and its effects are cumulative. Ultraviolet radiation causes bleaching, discolouration and the breakdown of organic materials e.g. flaking of leather, weakening of bookcloth, embrittlement and yellowing of paper. It is impossible to judge light levels accurately by eye and even on duil days light levels are often high.	
	High	Abrasion and excessive movement of dirt around the building.	
Air movement	Low	Increased risk of mould and insect outbreaks due to the formation of microclimates.	
Pollutants	All	The major pollutants are ozone, dust and the oxides of sulphur and nitrogen.  Caseous pollutants weaken all organic materials.  General dust and dirt stain paper and increase the risk of mould and pests.	

Causes of damage to books.

Type of enclosure	Format and materials	Use
Polyester wrapper	Tailor-made from static grade polyester and similar in format to a dust jacket but with a double crease along fore-edge of each board.	Protects books during removal/replacement and whilst on shelves. Also protects user from decaying covering materials. Used for limp bindings? books with textle ties (if left untied), books with red rot or deteriorating sprinkled bindings? reversed leather (suede) bindings, especially if next to one another, and for books with dust jackets.
Tapes	13mm wide cotton tapes, used in pairs. Unbleached, black or brown.	To tie up books with detached stiff board(s); must never touch text block and should be tied with a granny bow at the fore-edge.
Bookshoe	Similar to a slip-case but without spine or head covered and with a text block support, tailor-made from archival board of varying thicknesses.	To support book with covers larger than text block, especially with splitting or weakened joints or where text block touches shelf; to support alboard(s); books with despix to support a book taller or deeper than neighbours; to aid handling when book spines that are wider than the rest of the book interlock when on the shelf.
Type of enclosure	Format and materials	lica

Type of enclosure	Format and materials	Use
Phase box	4-flap box, tailor-made from archival board* of varying thicknesses and with a fastening. Optional internal text block supports**.	To protect vulnerable material, e.g., books in several pieces; those in need of tapes but where the tape would touch the text block; those in need of tapes but with a damaged spine (e.g. flaking leather); material in excellent condition which should remain as such limp material; books with deckle edges (to prevent dust deposition); to keep several slim items together; to support a book taller or deeper than neighbours.
4-flap wrapper	4-flap enclosure, ready made from archival board or manilla paper, usually with several creases to allow for different thickness of material.	Protection for slim material or loose leaves.

Type of enclosure	Format and materials	Use
Phase wrapper	3-flap wrapper, leaving spine of book visible, tailor-made from archival board of varying thicknesses with a tab fastening. Optional internal text block support.	Similar to a phase box but for use in historic interiors where the aspect of a room is important; to support a book taller or deeper than neighbours. If a spine is unstable and cannot be cleaned easily then a phase box should be used.
Fore-edge wrapper	2-flap wrapper covering boards and fore-edge of book, tailor-made from archival board and secured with tapes.	Protects books during removal/ replacement and whilst on shelves. Used for limp bindings, books with clasps, books with textile ties (not to be confused with tapes). Useful in historic interiors but tapes make it unhelpful in most libraries <sup>23</sup> .
Polyester pocket	Ready made from static (0) or non-static (516) grade polyester (mylar® or melinex®) and sealed along 2 or 3 edges.	Protection for single-section or flat material (the former requires non-station polyester).

Materials and methods used to protect books.

### DESIGN BRIEF

The library is owned by a secret society. You will find that the members of this secret society are men of power, they believe that books carry authority of knowledge over the mind and the wrong books in the wrong hands leads to a threatening knowledge and therefore disaster. These men have the power to change this, so they have decided to create a 'new knowledge'. Under this new knowledge, books of a new age are being created and the society have decided to destroy the books that go against their new knowledge. However, their plans must be kept within the circle of their society - which is why they have created a library that is designed to change overnight from a protector to a destroyer. The men want these books in their library to be destroyed within a certain amount of years to begin a new society. As a smooth transition takes place from the books being destroyed to the replacement of the books under their 'new knowledge' the public will become familiar with this new knowledge and subconsciously begin to follow it, therefore creating a new society shaped by these men of power.

During working hours the books that have been chosen to be destroyed over time are placed in protection materials to fool the public, they will be led to believe that these are books are 'precious items' that must be treated with care. Books under the new knowledge will be placed on shelves at a slow intelligent pace, to avoid raised suspicions and allowing the public to be drawn in and led by these books over time. The process of destroying the books happens between closing hours. At 4am all books are returned to shelves, ready to open the library to the public. In doing all this, the society aims to create a new knowledge, one that does not harm society, but builds it.

### MANIFESTO

#### A TOOL

"For the secret society the library is a physical tool."
The library becomes a device to create a new knowledge.

#### PURPOSEFUL

"Behind each book lies a greater purpose"

The library should not just aim to create a space that lets the user read, write and so on, it should aim to leave an imprint on the user that on every visit it should subliminally re-shape and influence the user's mind.

#### A WATCHER.

"What she did not know is that there were eyes watching the eyes reading."

In order for the secret society to grow, it is important to observe and understand each user's interest of books.

#### REBIRTH

"To unite minds to become one through the creation of new books of a new knowledge."

A new order must replace the old order.

THE LIBRARY AIMS TO CREATE A NEW SOCIETY, ONE THAT DOES NOT HARM SOCIETY, BUT BUILDS IT.

### SUBLIMINAL

The library (SS) works in the subliminal, working behind the scenes to establish this greater good of a new knowledge avoids protest, the users mind being subliminally reshaped by the books of a new knowledge stops them from refusing it.

#### KNOWLEDGE IS POWER

The library values the power of the mind and how knowledge can control it.

#### HIERARCHY

To keep order in place, there must be a higher power over the users (in this case, The Kirkman leaders).

### EVOLUTION

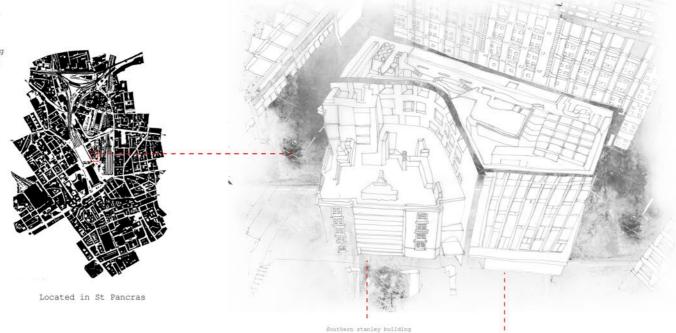
The way the user's mind begins does not have to determine it's ending.

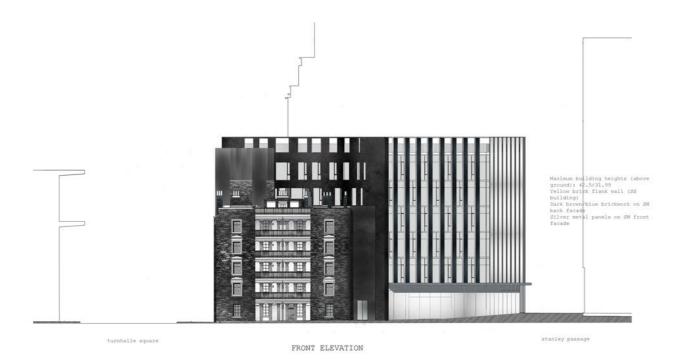
### PHYSICAL POSTER The Stanley Building

The Stanley Buildings were built in 1864-65 by the Improved Industrial Dwellings Company to provide a higher standard of accommodation for King's Cross workers. There were originally four flats per floor, later converted to two.

four flats per floor, later converted to two.
Flat roofs were provided for clothes drying and children's play areas. The flats were unusual in that they provided completely self contained accommodation. There were originally 5 blocks housing 104 families. Today only one remains. The building is an early example of the use of concrete in construction — used because it was cheaper and reduced the risk of fire.

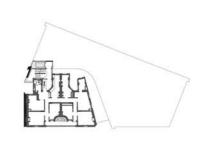
The remaining Stanley building has being restored and the structure updated with a modern addition.

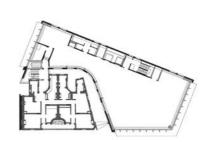


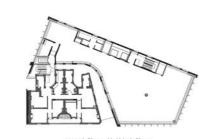




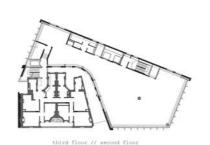






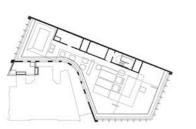


first floor (as building)



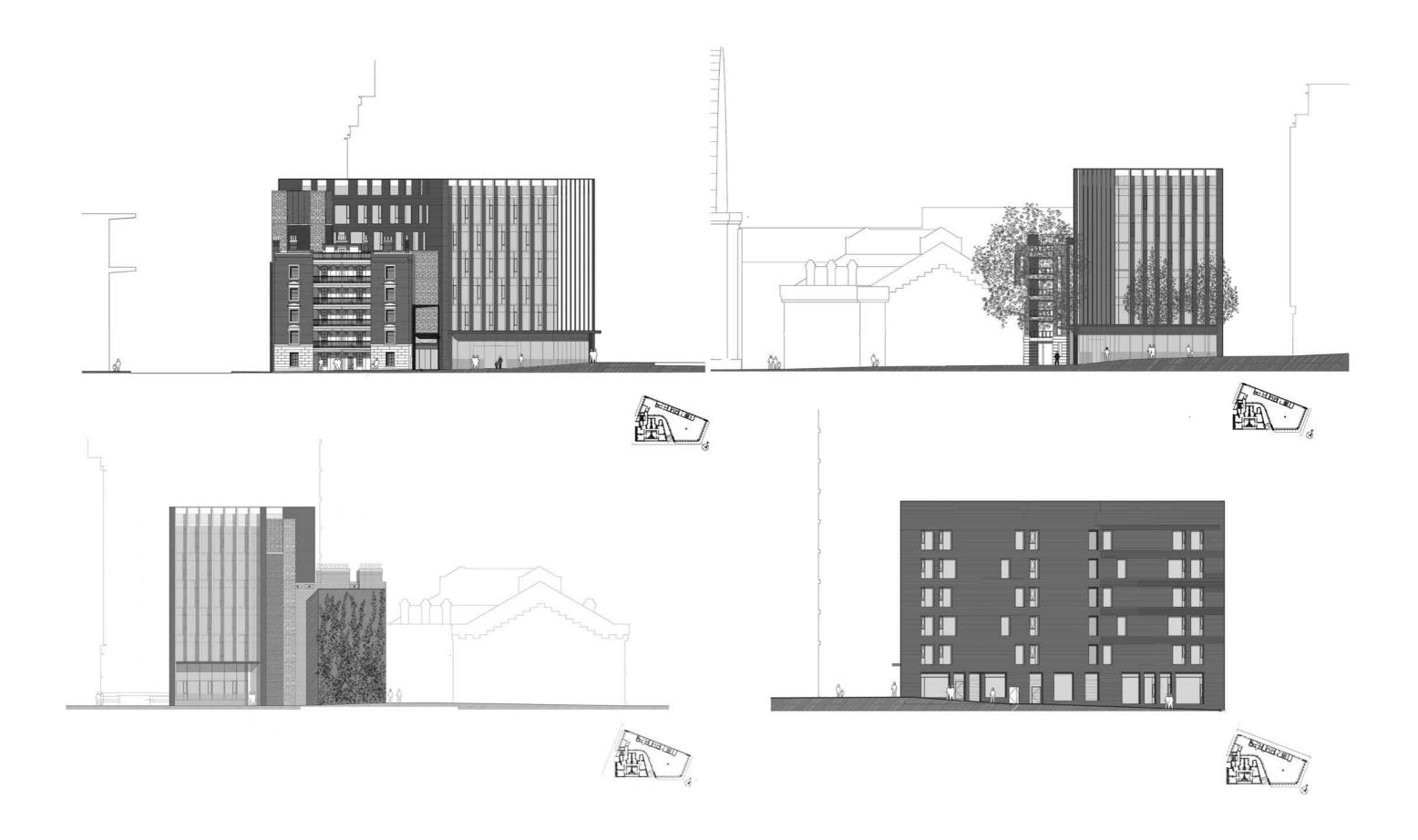




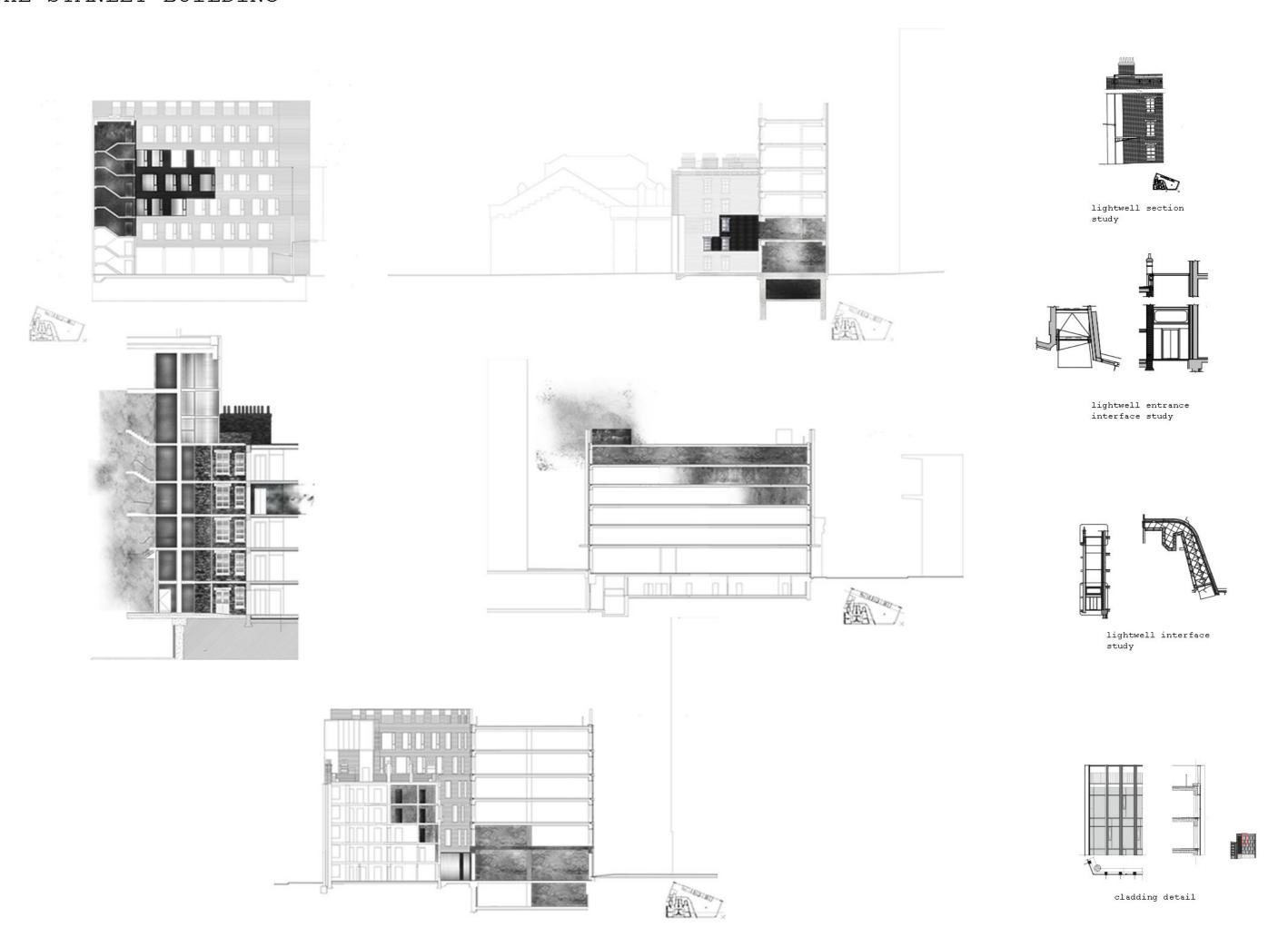


PLANS

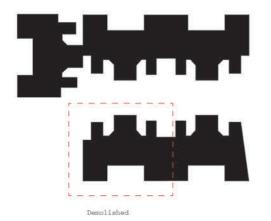


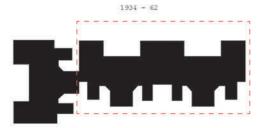


## THE STANLEY BUILDING



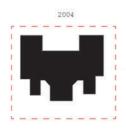
1870





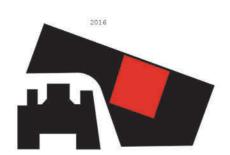


Destroyed by bombings in WWII

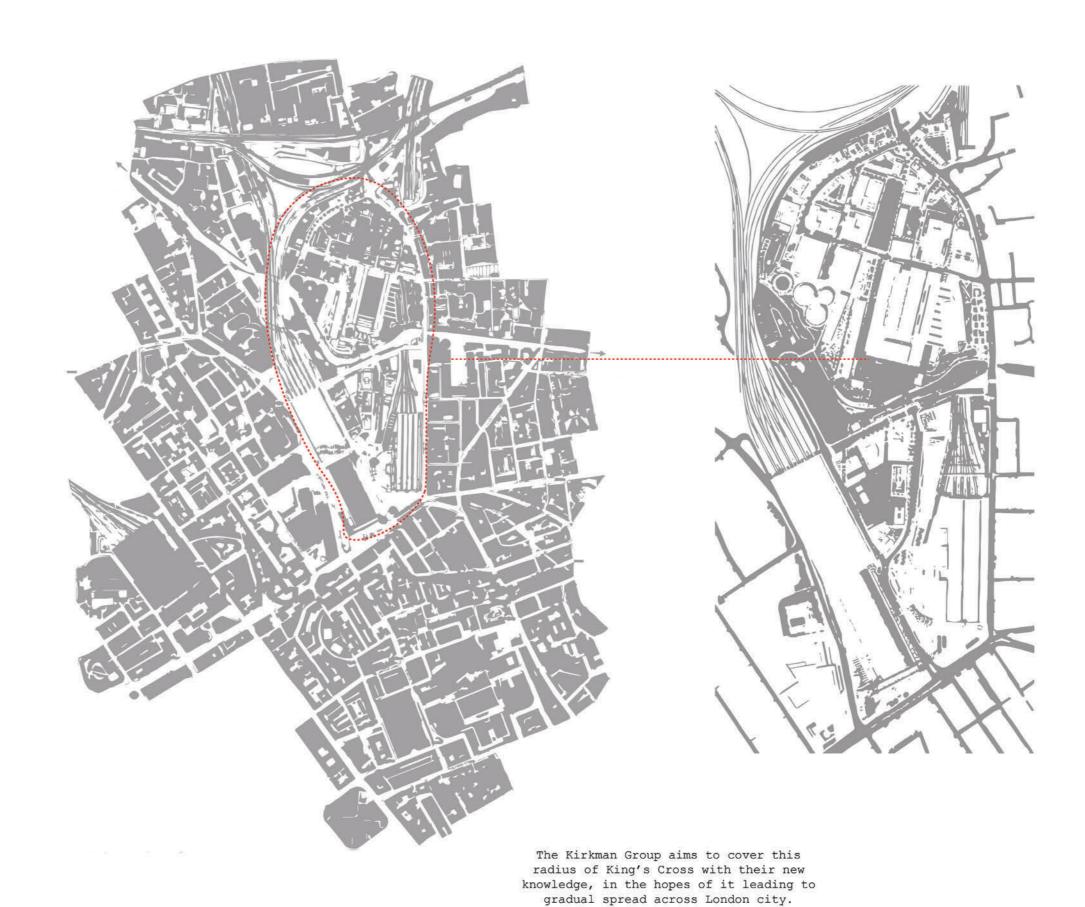


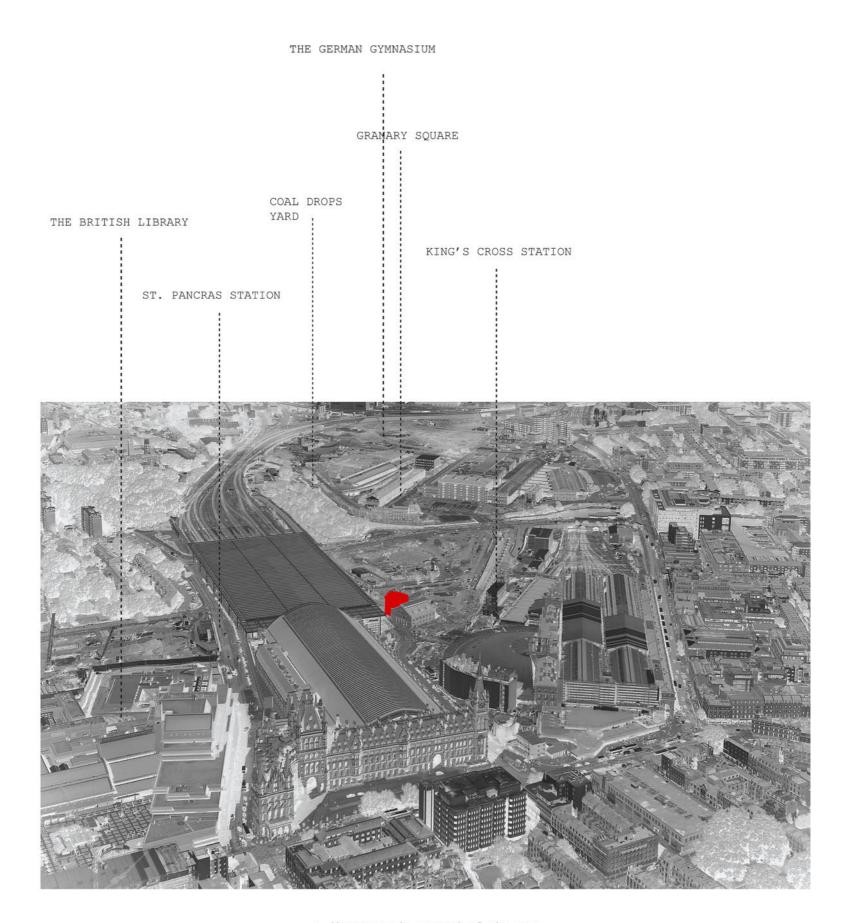


Demolished for King's Cross development









A diagrammatic spread of the new knowledge over time using the hotspots in St. Pancras.



1 year



2 years



3 years



4 years

## LOOTING MOBS DEFY GOEBBELS

# Jewish homes fired, women beaten Synagogue burned and shops

A LL OVER CERMANY TONIGHT THE JEWS ARE OWNERING IN TERROR. THEIR SHOPS ARE WELCKED AND LOOTED, THEIR SYMPOCOUS ARE SURNING, THEIR HOMES ARE AT THE MERCY OF GANCS DRUNK WITH DISTRUCTION. NOT EVEN HE PROCLAMATION OF DR. COBBELS, THE PROPAGANDA AIMISTER—BROADCAST THIS AFTERNOON AND AGAIN

SYNAGOGY EX and Jowh hape were leveled at home at feedin systems and the state of the city and togeth, above see at 0 burning organizers. Feeding of the feeding and the state of the city and togeth, above see at 0 burning organizers. Feeding of the feed Jewish doop to the flesh Paper.

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## Daily Mail

# WHO WILL SPEAK FOR ENGLAND?

Daily Mail

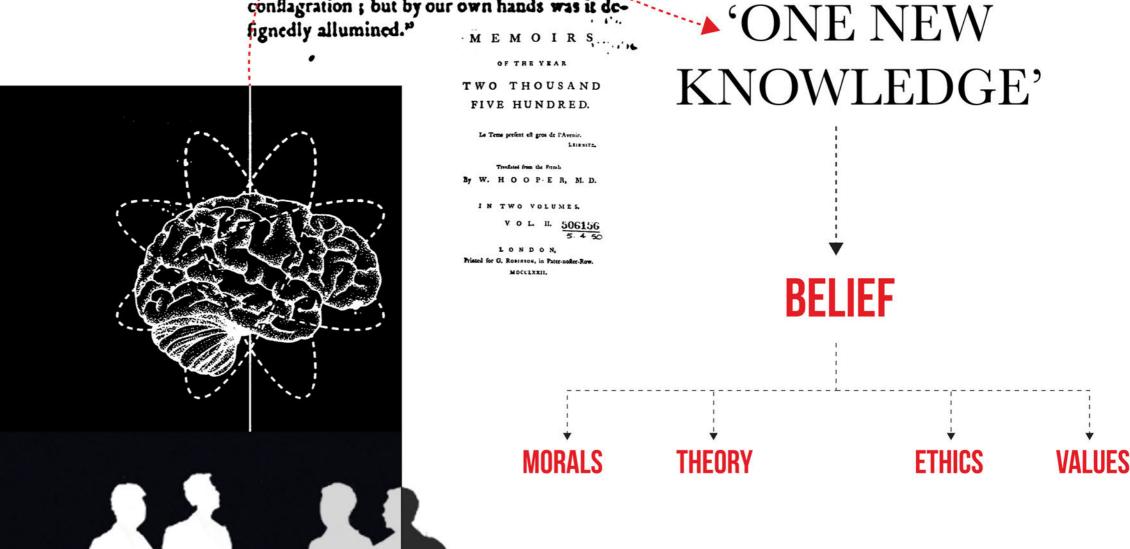
COMMENT



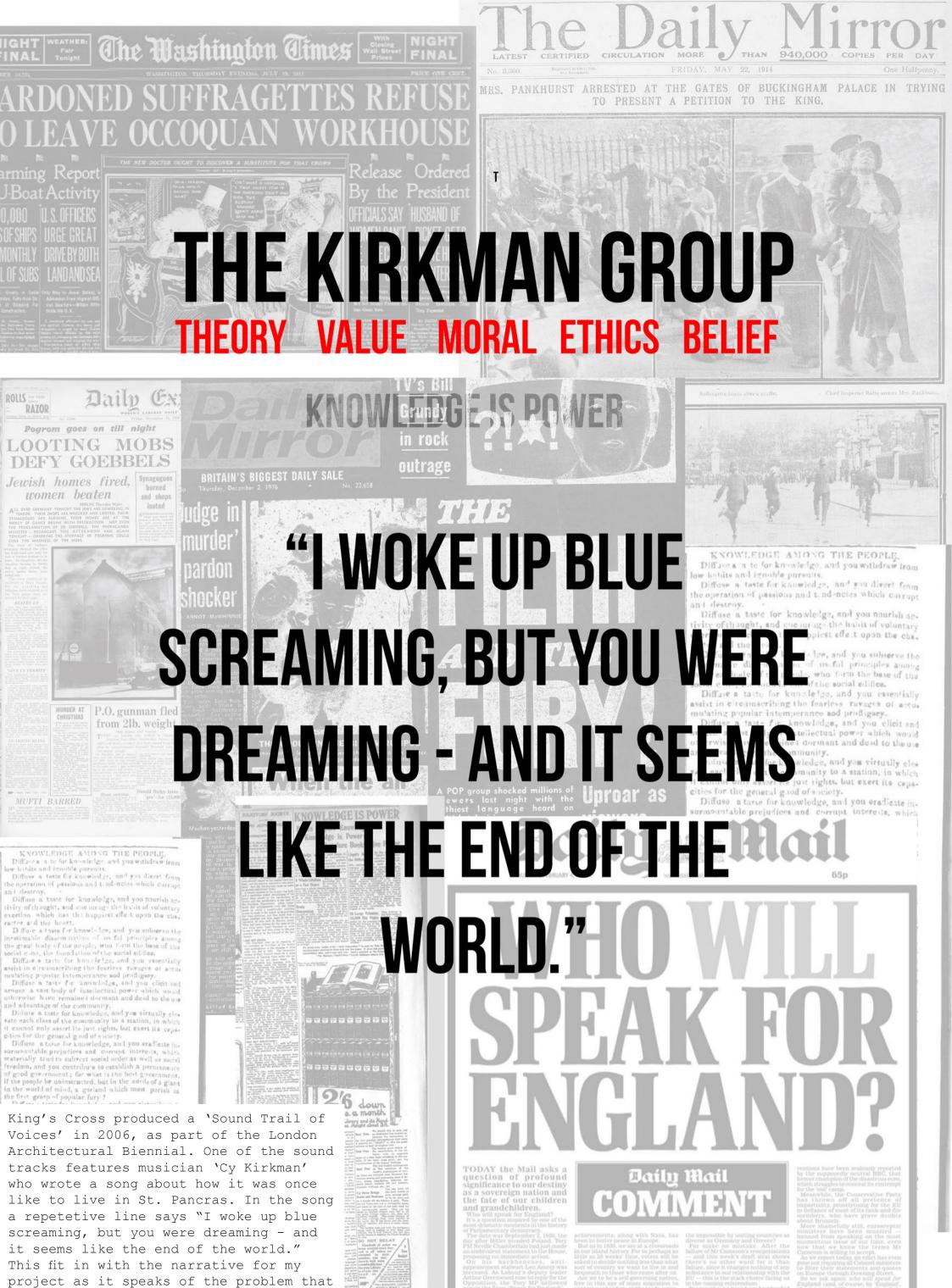


## The King's Library. -

In the room of those sour galleries of an immense length, and which contained many thousands of volumes, I could find only one small closet, in which were several books that seemed to me far from voluminous. Surprised at so great a change, I ventured to ask if some fatal conflagration had not devoured that rich collection?—" Yes," they replied; " it was a conflagration; but by our own hands was it defignedly allumined."



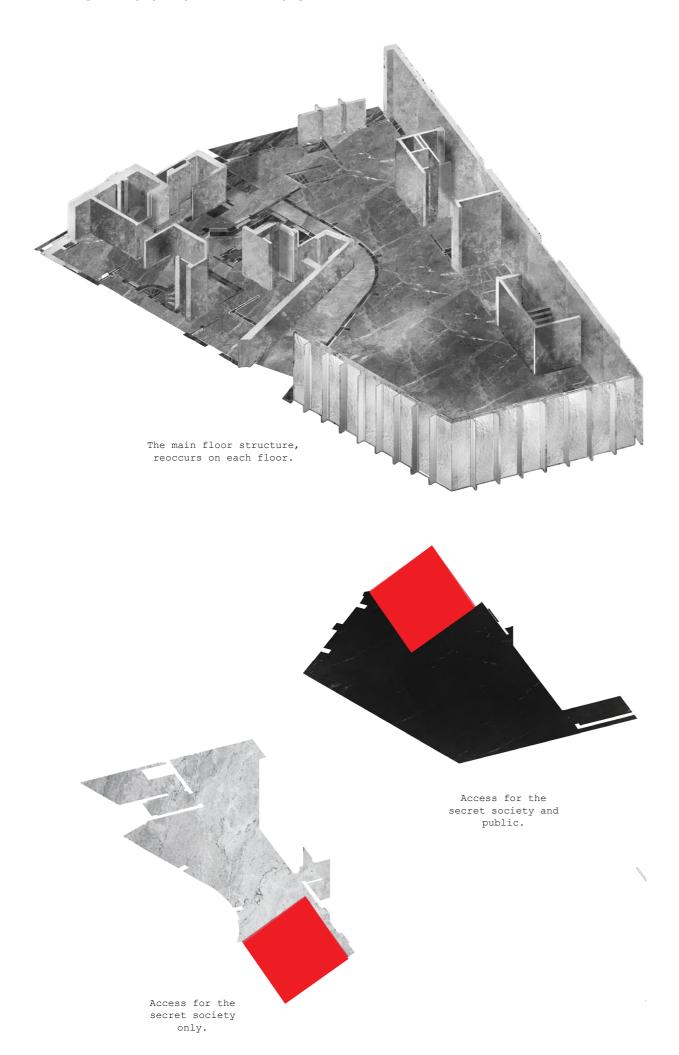
The quote above is from the book 'Memoirs of the year 2500' by Louis Sebastien Mercier . The passage comes from a man who dreams of entering the King's library and seeing all the books had disappeared. In the story we find out that books were being destroyed because of the content they carried and the belief that they were leading the mind astray. This instigated my idea of creating a library owned by a secret society with the desire to begin a new knowledge - one that would not lead the mind astray. The society believes what shapes one's mind is the 'morals', 'theories', 'ethics' and 'values' they believe in, therefore the floors for the public in the building are built upon these genres.

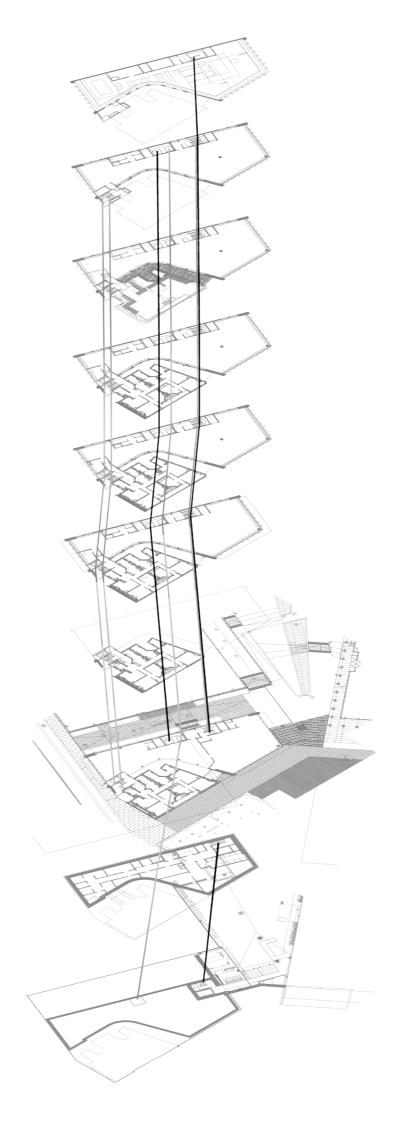


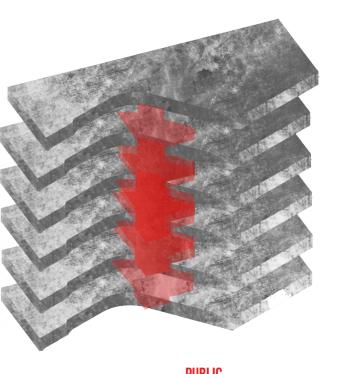
the Secret Society want to cure - hence why I named the society 'The Kirkman

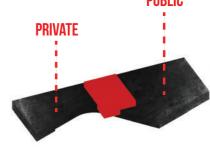
group'.

## INFRASTRUCTURAL POSTER

















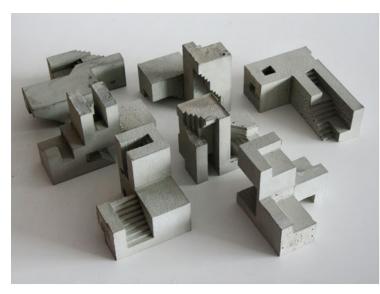






Tower Tower through Tower SS Public floors building

DAVID UMEMOTO
'Soma Cube Series'

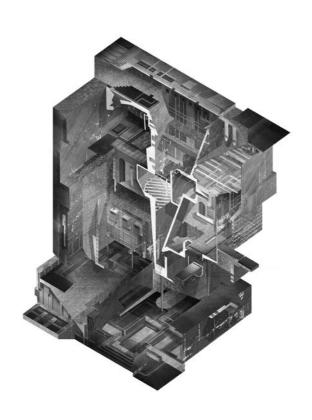


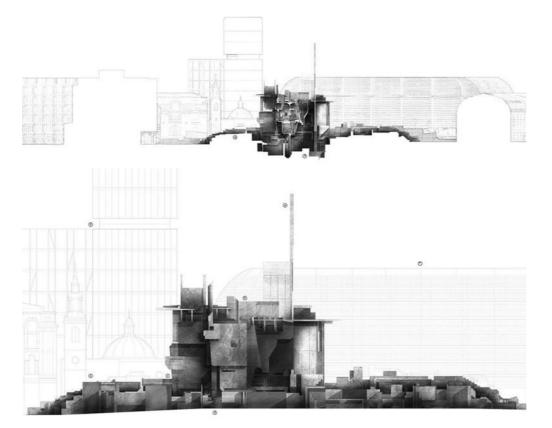


I found the work of Umemoto useful for the forming of my tower. His approach is self-described as "rigorous," with each sculpture comprising of modular sections that can be reorganized to create new forms.

#### BENJAMIN FERNS

'The Pontifical Academy of Sciences'





This project is by Benjamin Ferns 'The Pontifical Academy of Sciences', established in 1603 with Galileo as chair, in the project he relocates the academy to the City of London to provide a new education system to tackle the Square Mile's lack of moral purpose.

To creates his academy he uses a monochrome mass of libraries and ritualistic lecture spaces set in a landscape to induce physical and metaphysical wandering, meeting and reflection. His proposal goes beyond a religious or scientific typology, he investigates the potential of collage through Baroque painterly characteristics and oblique perspectives. The style of my portfolio is influenced by this project.

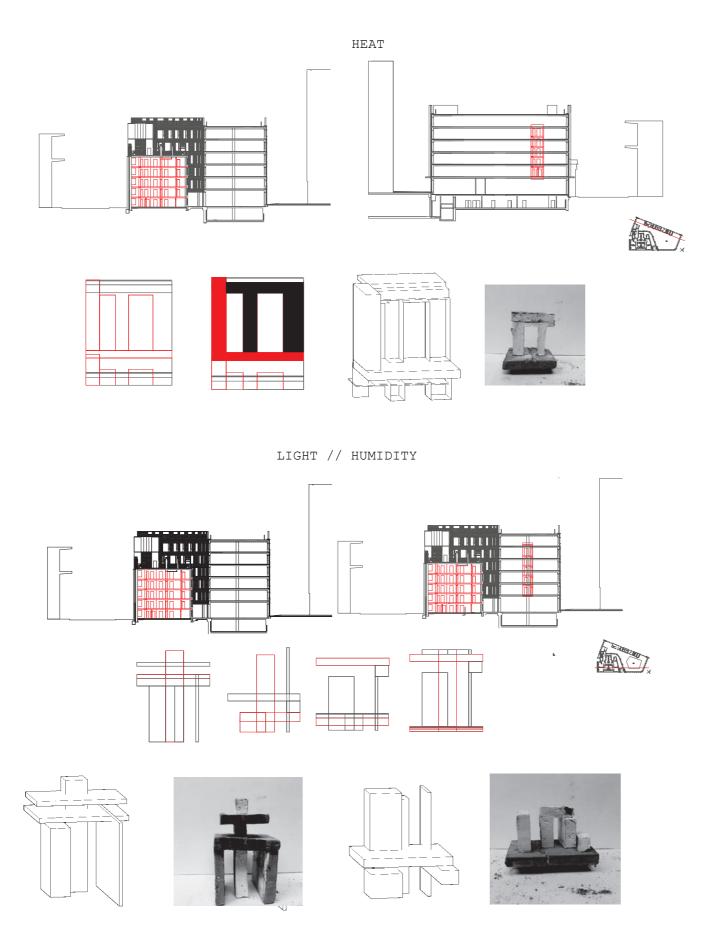
CARLO SCARPA 'Castelvecchio Museum'

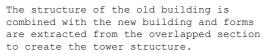


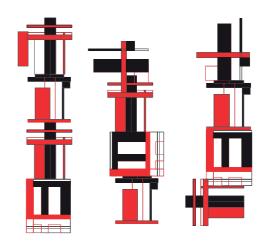




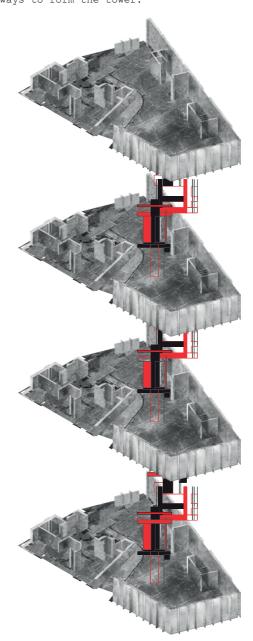
The Castelvecchio museum designed by Carlo Scarpa has been another precedent for the form of my tower. The form and displacement of the spaces carry a weightiness that I'd like my spaces to carry.





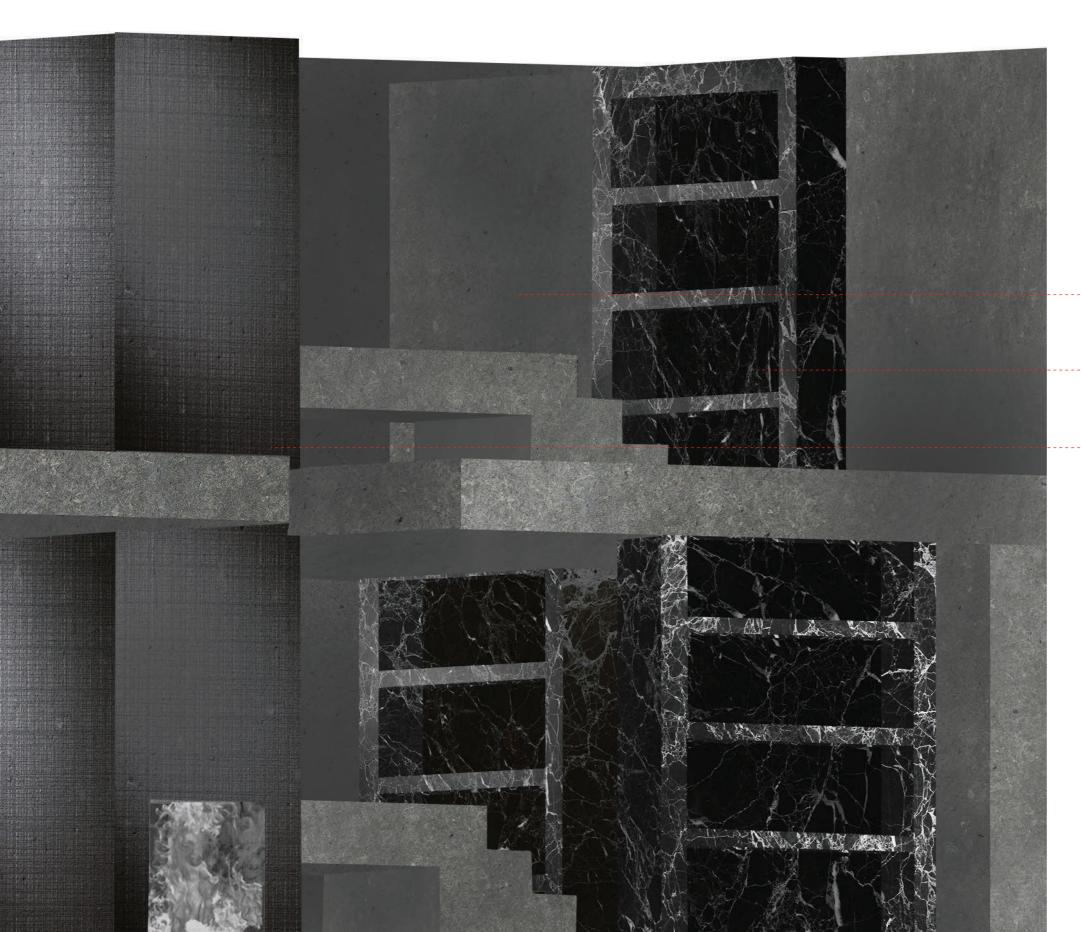


Forms created from overlapping the old and new building are put together in different ways to form the tower.



The tower forms will go through each floor creating an intervention through the building.







#### MATERIALITY



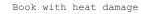
Urban grey flamed stone



Mira black stone



Grigio danese stone



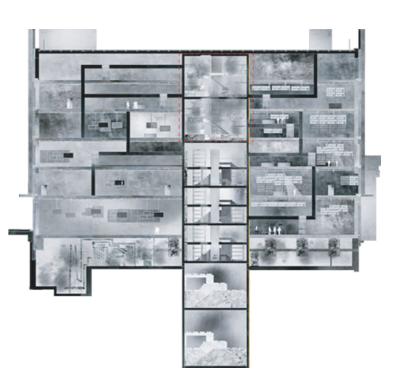
### HEAT

Heat accelerates damage, causes permanent distortion, cracking, change of sheen and melting of adhesives and paint. Insects reproduce faster and eat more at higher temperatures as well. The National Parks Service's, Museum Collections guide states that reactions double in rate with each increase of 18°F. The recommended temperature for spaces where human comfort is a factor is between 60-77°F. For storage of paper records with only occasional retrieval, a constant temperature within the range from deep freeze to about 64°F would be suitable as per the National Information Standards Organization (NISO) Environmental Guidelines for The Storage of Paper Records.

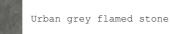
Books in the tower are placed into a furnace at different heights depending on how much damage needs to be done to the book. The closer to the source of fire, the more the damage.

### THE TOWER 'HUMIDITY' FLOORS





### MATERIALITY





Mira black stone



Book with water damage

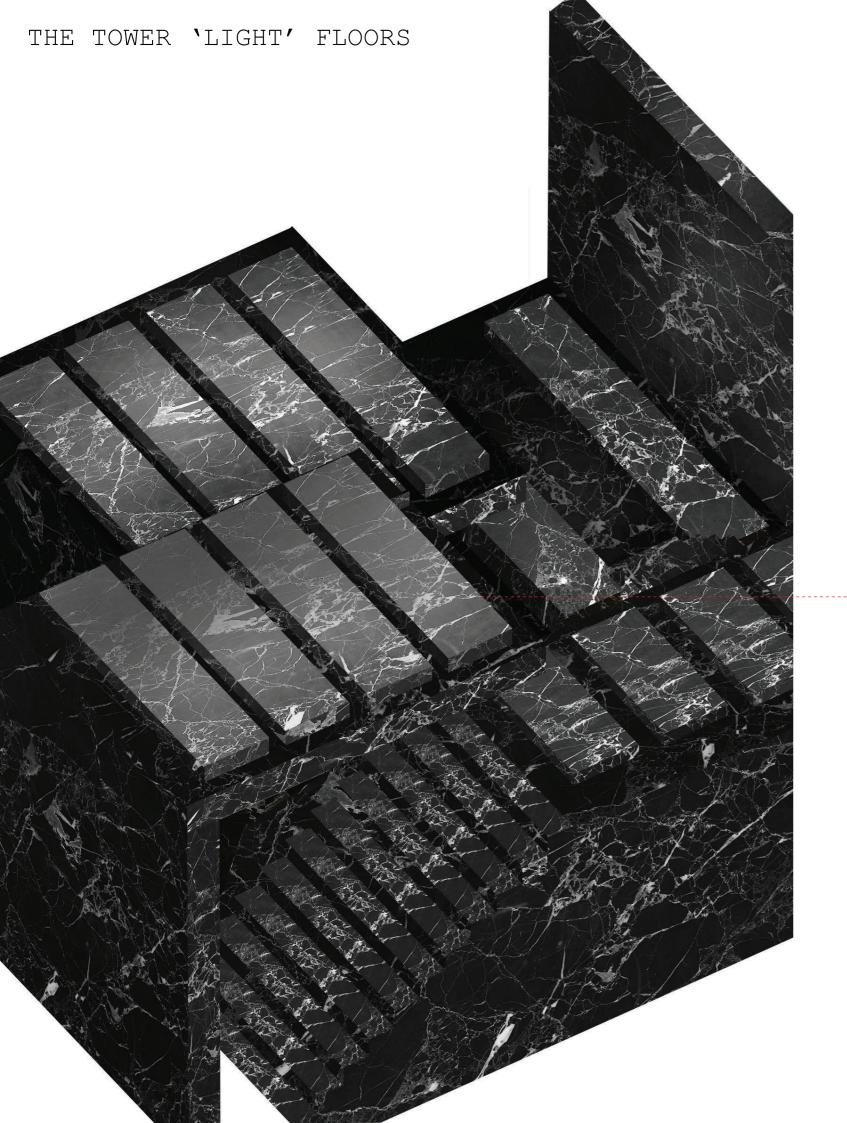


Grigio danese stone

### HUMIDITY

'Relative Humidity' refers to the amount of water vapor in the air, expressed as a percentage of the maximum amount the air could hold at the same temperature. When warm air is cooled, the RH goes up. When cold air is heated, the RH lowers.Cellulose, as the raw material of paper, is hygroscopic. This means it responds to changes in relative humidity by expanding when humidity levels are high and contracting when they are low. Paper has an attraction to water since it contains water on its surface and within its chemical structure. Surface water is eliminated first when RH is low. Once this supply is exhausted structural water is given up. High humidity can lead to insect activity, delamination, bleeding of watercolors, distortions, adhesions of coated paper, ink transfer and mold growth. Mold stains and weakens paper and leather. The 2011 Specification for Environmental Condition for Cultural Collection released by the British Standards Institute describes that below 25% RH, the risk of physical damage increases rapidly and at 75% RH and above. The recommended RH lies between 45-65% With an allowed fluctuation of  $\pm 5\%.$  The safe RH boundary usually cited to prevent mould growth is below 65%, although 70% has also been cited.

A tower with slots for books will go through two of the floors in the tower. Pools of water surround the tower. Steam will rise from the pools causing the pages of the books to warp.





### MATERIALITY



Urban grey flamed stone



Mira black stone



Grigio danese stone

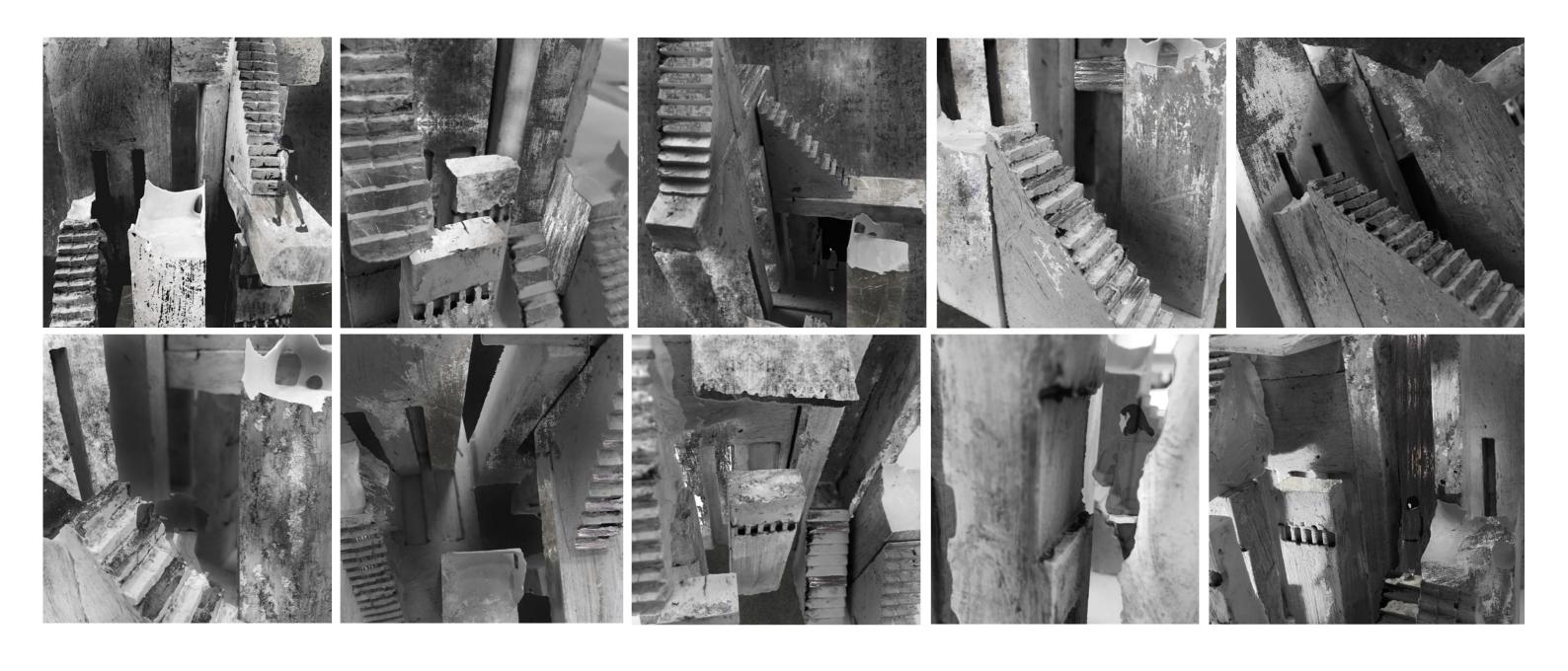


Book with light damage

LIGHT
Light accelerates deterioration of library and archival materials. It leads to weakening and embrittlement of cellulose fibers and can cause paper to bleach, yellow, or darken. It also causes media and dyes to fade or change color, altering the legibility and/or appearance of documents, photographs, art works, and bindings. Any exposure to light, even for a brief time, is damaging, and the damage is cumulative and irreversible.

## A JOURNEY THROUGH THE TOWER

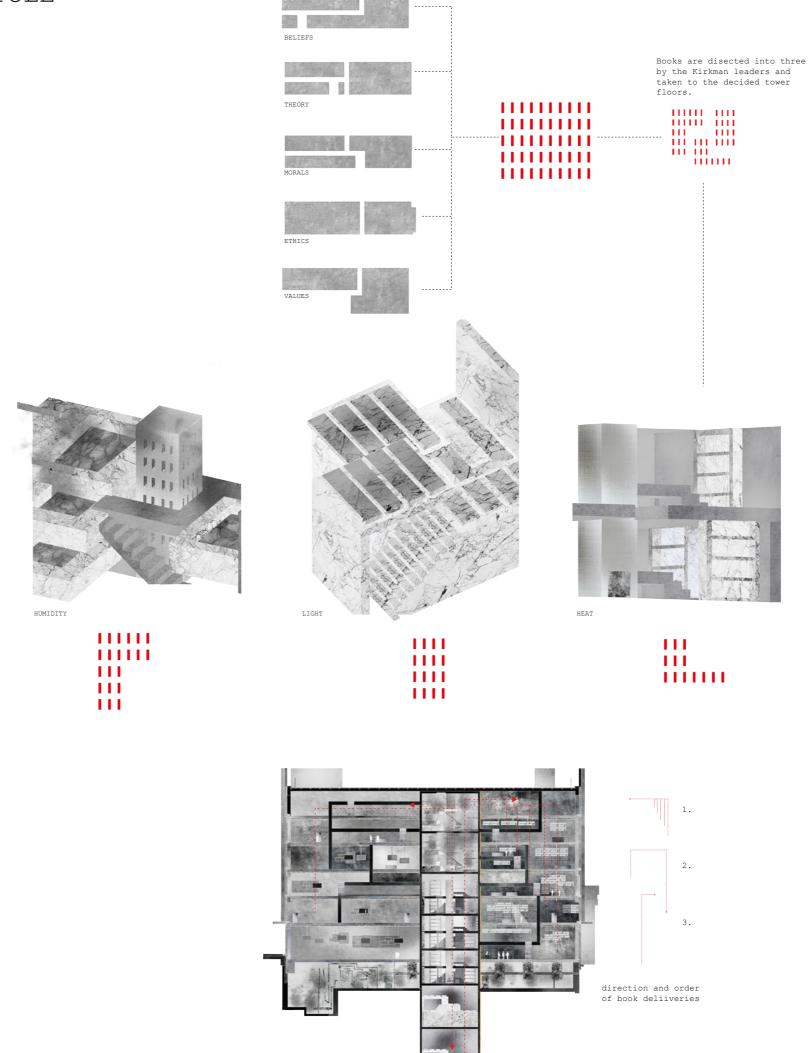
A collection of small plaster casts arranged in different iterations to create a journey through a tower.



## DAILY BOOK DESTRUCTION CYCLE

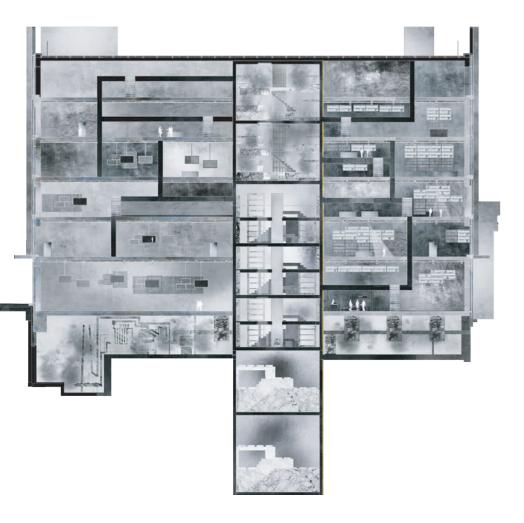
50 books an hour undergo the destruction process.

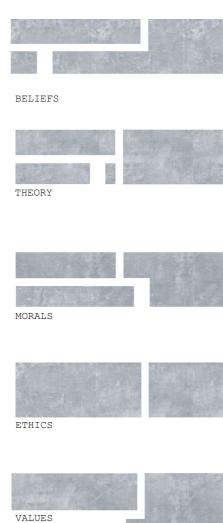
(And therefore 100 books a day from each floor // 2500 books a week // 10,000 books a month)

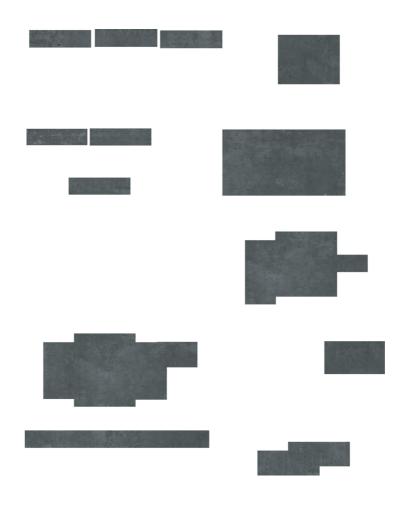


## BOOK MAPPING

The library is split into the five genres that the society believe make up the right human knowledge. The Kirkman books under the 'new knowledge' are subliminally embedded within the books across the genres.





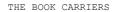


BOOK LAYOUT KIRKMAN BOOK PLACEMENT

## CHARACTER MAPPING







The book carriers move across each floor of the library and deliver them to the Kirkman Group leaders located in the sorting room.

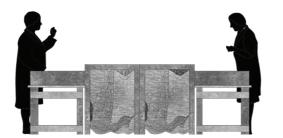






THE KIRKMAN GROUP

The Kirkman Group leaders discuss through each book deciding which books are to be destroyed and how they will undergo destruction.





THE BOOK SORTERS

The Book Sorters take the decisions of the leaders forward and sort the books into the appropriate categories.





THE DISTRIBUTORS

The Distributors take the books to undergo destruction through the tower into their assigned rooms (LIGHT / HEAT / HUMIDITY).



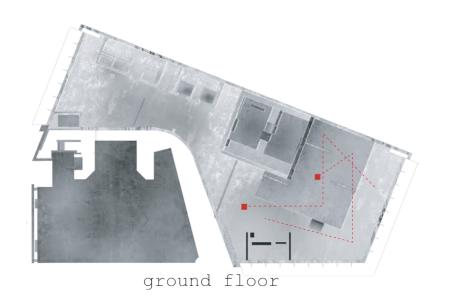


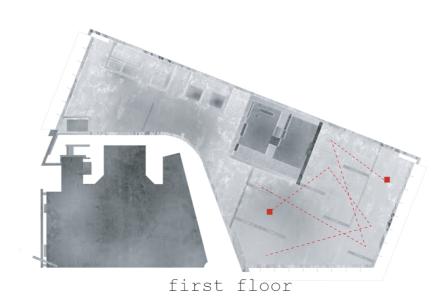
THE DISPOSERS

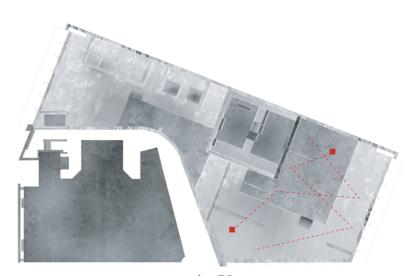
The Disposers are to dispose of the wastage made throughout the tower.

## MOVEMENT OF 'THE SPOTTERS' DAILY

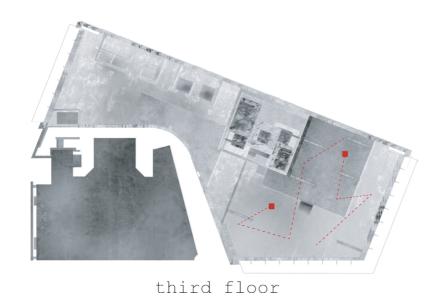
The spotters are part of the secret society, they are assigned everyday to pretend to be a reader in the library so that they can interact with the other reader and find more ideal recruits to join The Kirkman Group.

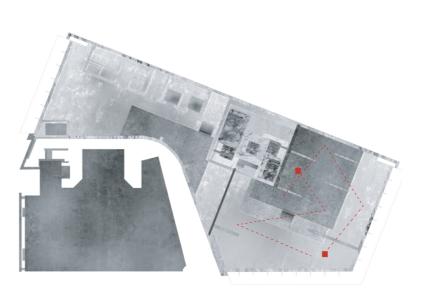






second floor

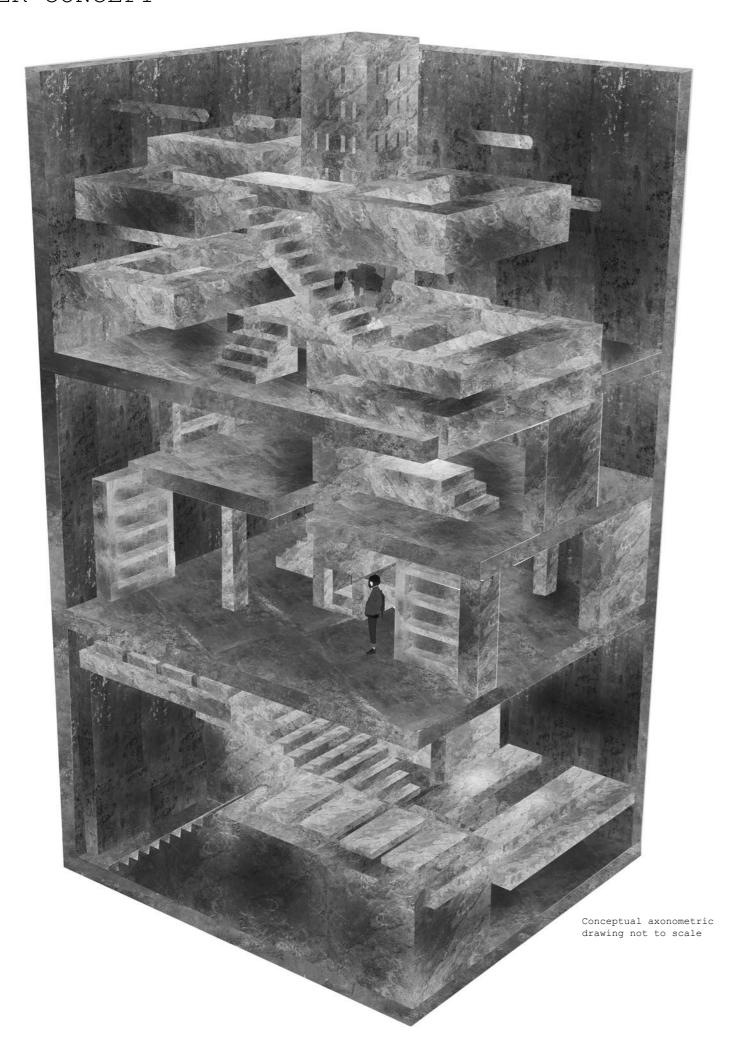


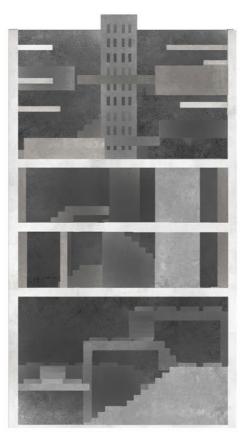


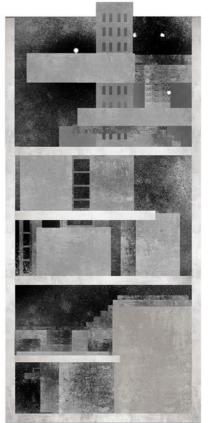
fourth floor

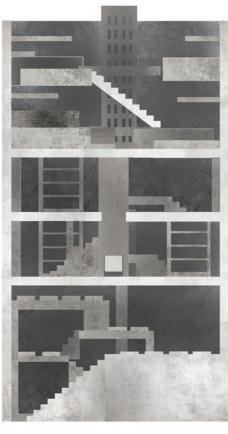


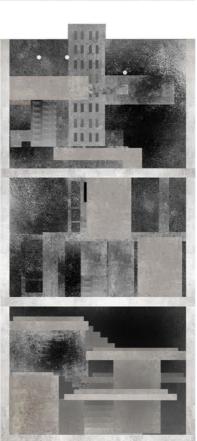
## TOWER CONCEPT



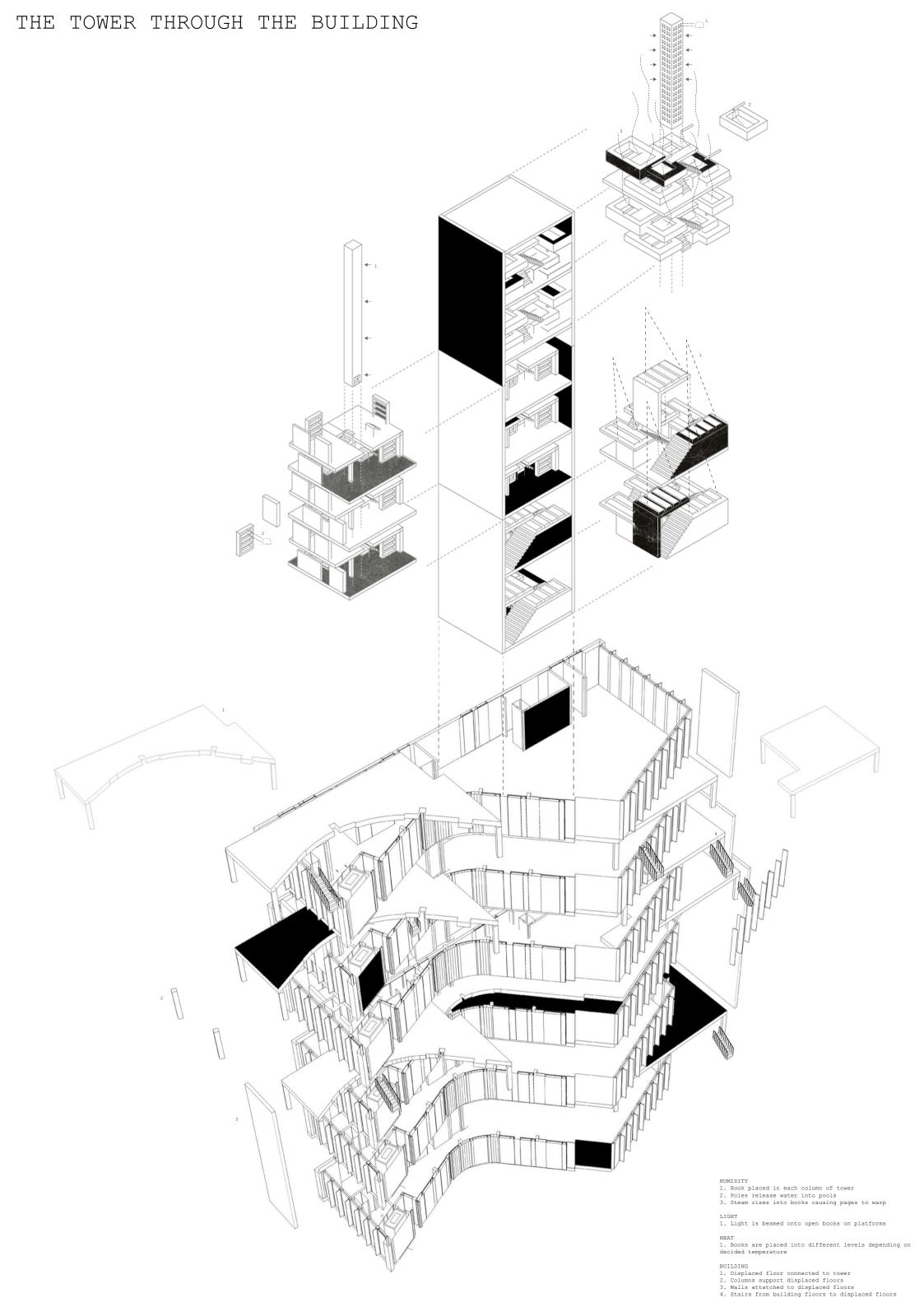




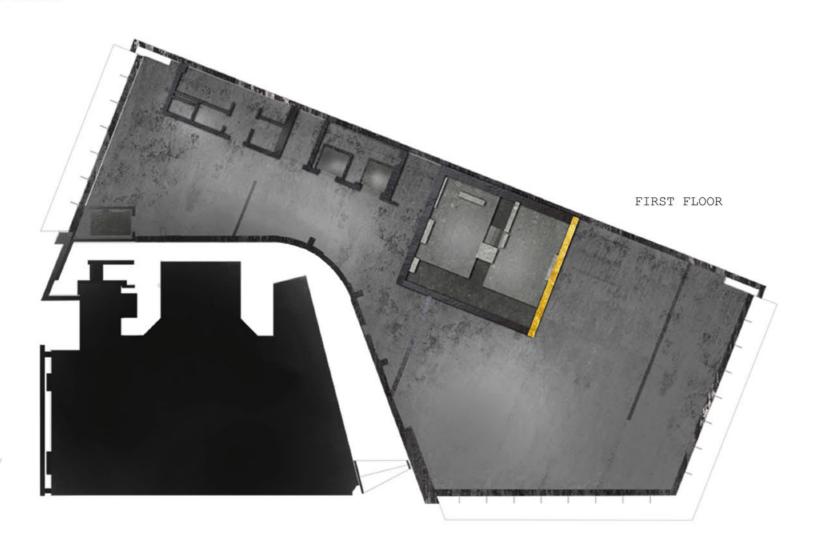


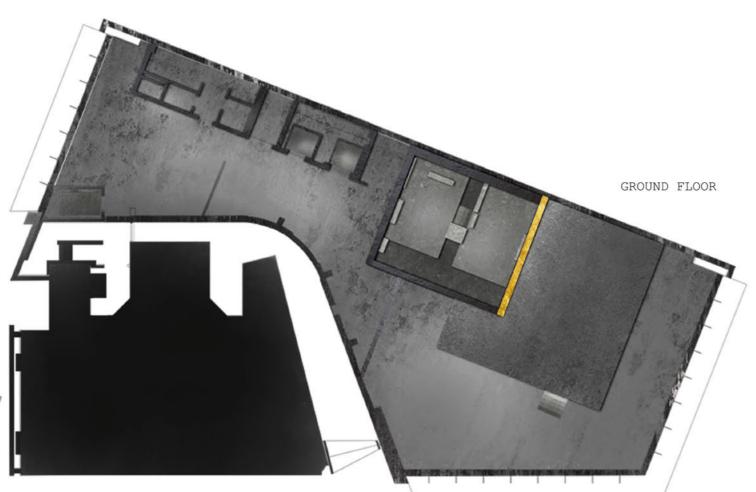


Conceptual section not to scale











MONITORING FLOOR



FLOOR OF ETHICS





PLAN IN SITE CONTEXT NOT TO SCALE



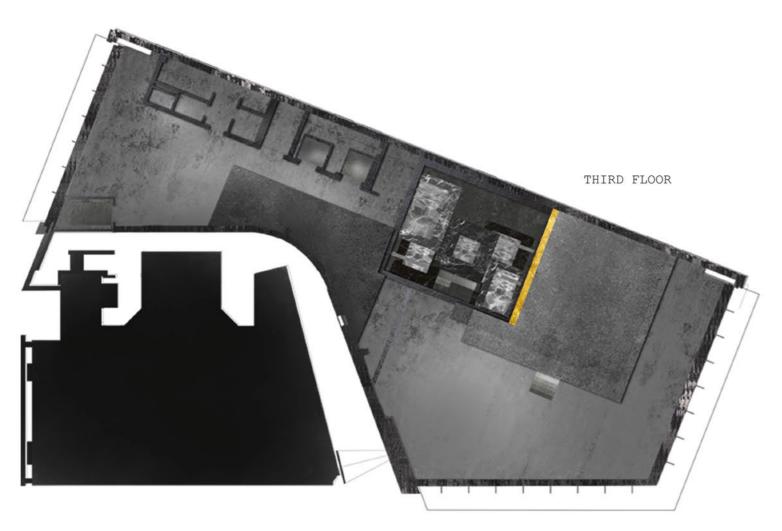
MONITORING FLOOR

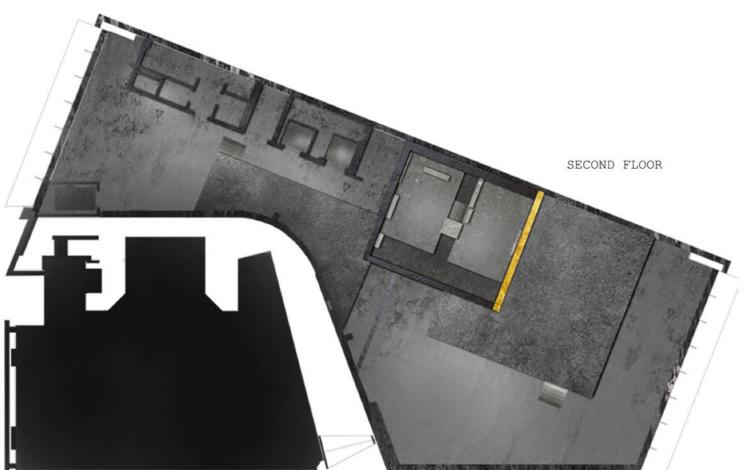


FLOOR OF VALUES SECURITY CHECK TOILETS



HEAT FLOOR







THE TRAINING ROOM
THE SOCIETY LOUNGES



FLOOR OF THEORY



HUMIDITY FLOOR



PLAN IN SITE CONTEXT NOT TO SCALE



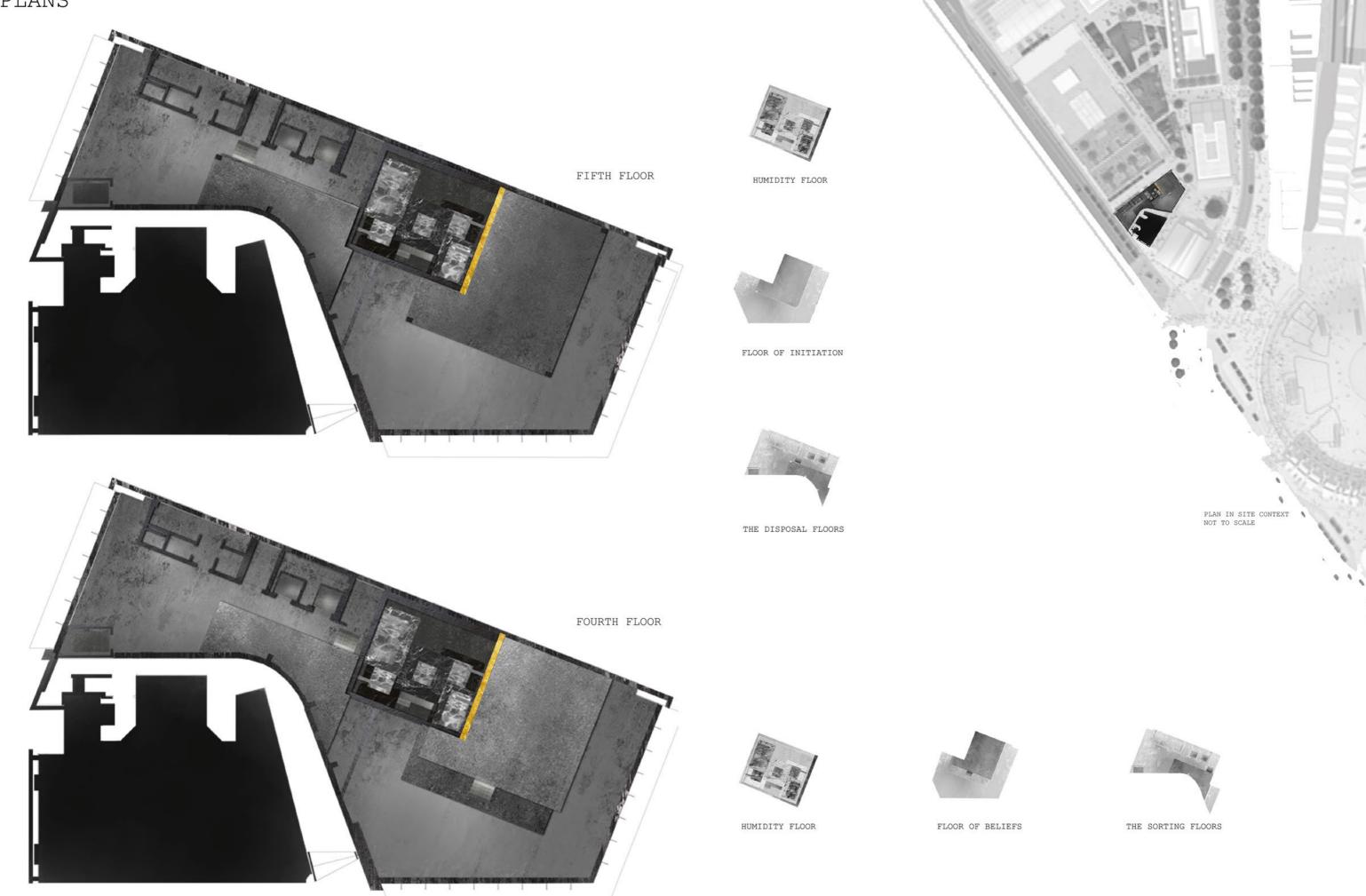
THE SORTING ROOM
THE SOCIETY LOUNGES

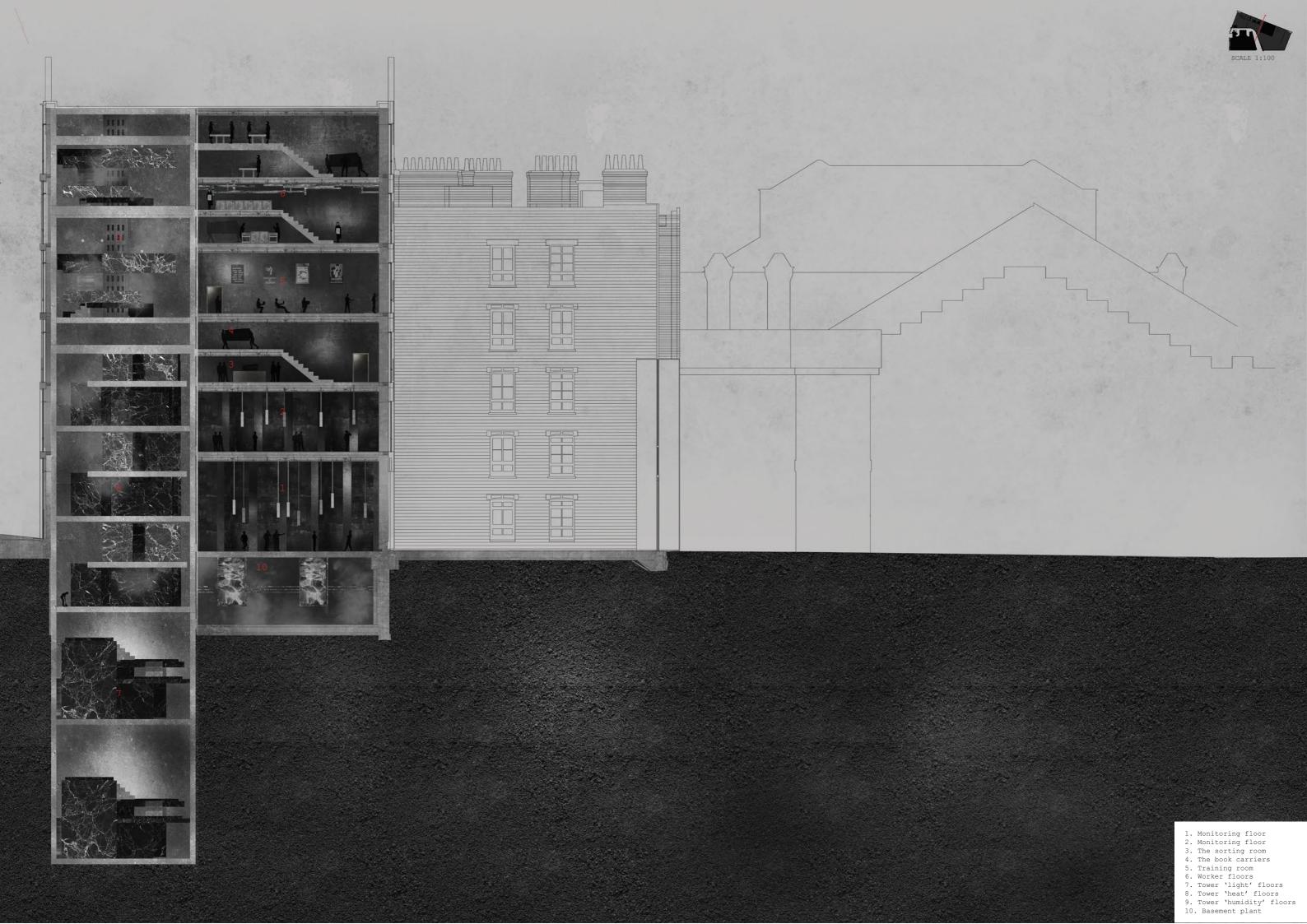


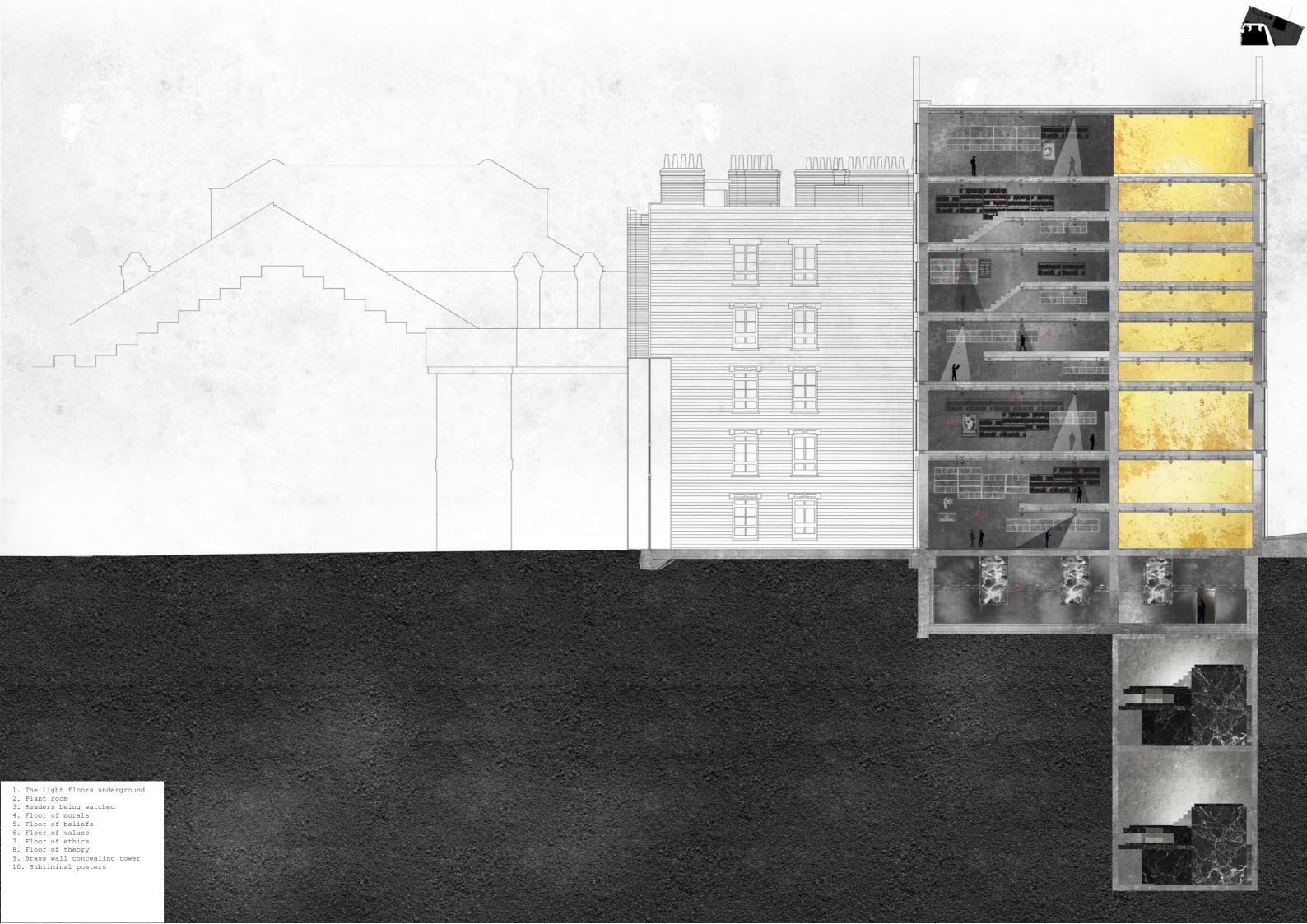
FLOOR OF MORALS



HEAT FLOOR











## SECTION ZOOM-IN

