

# HARMONY DIVIDE ISOLATE

THE BUSHFIRE MEMORIAL MUSEUM CONCEPT CENTRES ON THE EMOTIONAL JOURNEY OF THE 2019 BUSHFIRES. IT EXPLORES THREE TIME PERIODS: BEFORE, DURING, AND AFTER THE FIRES, FOCUSING ON THE EMOTIONS OF DISPLACEMENT AND ISOLATION. THE EXPERIENCE IS GUIDED BY THE EMOTIONS OF TWO NARRATIVES, THE HUMAN AND WILDLIFE PERSPECTIVE, WHICH CONTRAST AND CONNECT THROUGHOUT THEIR JOURNEY THROUGH THIS PERIOD. THE SPACES ARE DESIGNED TO PROVOKE DIFFERENT EMOTIONS WITHIN THE VISITOR. AS THEY ARE GUIDED THROUGH A CONTINUOUS PATH.



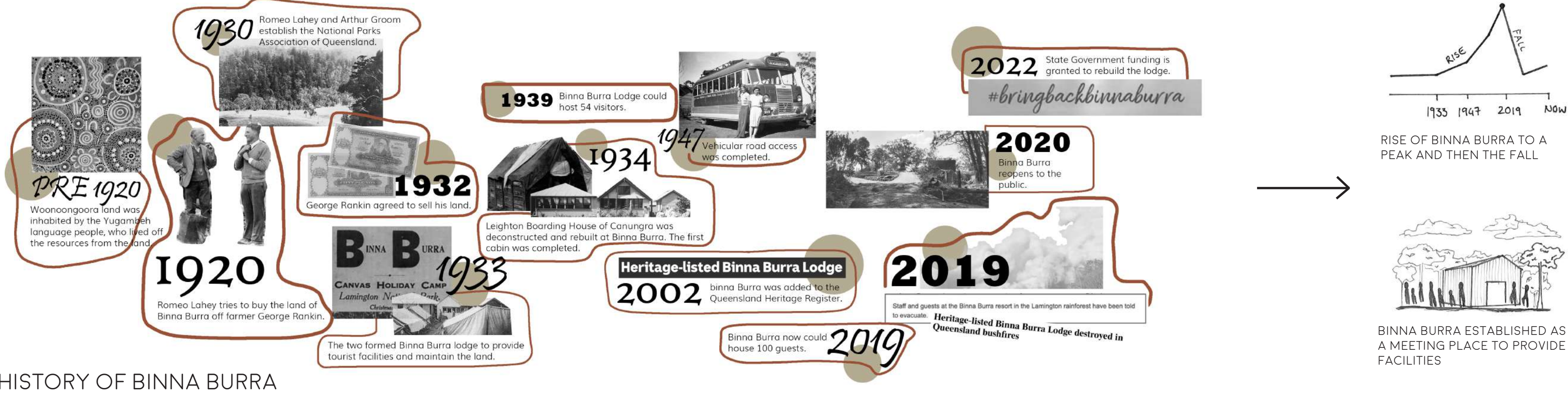
BUSHFIRE NARRATIVE



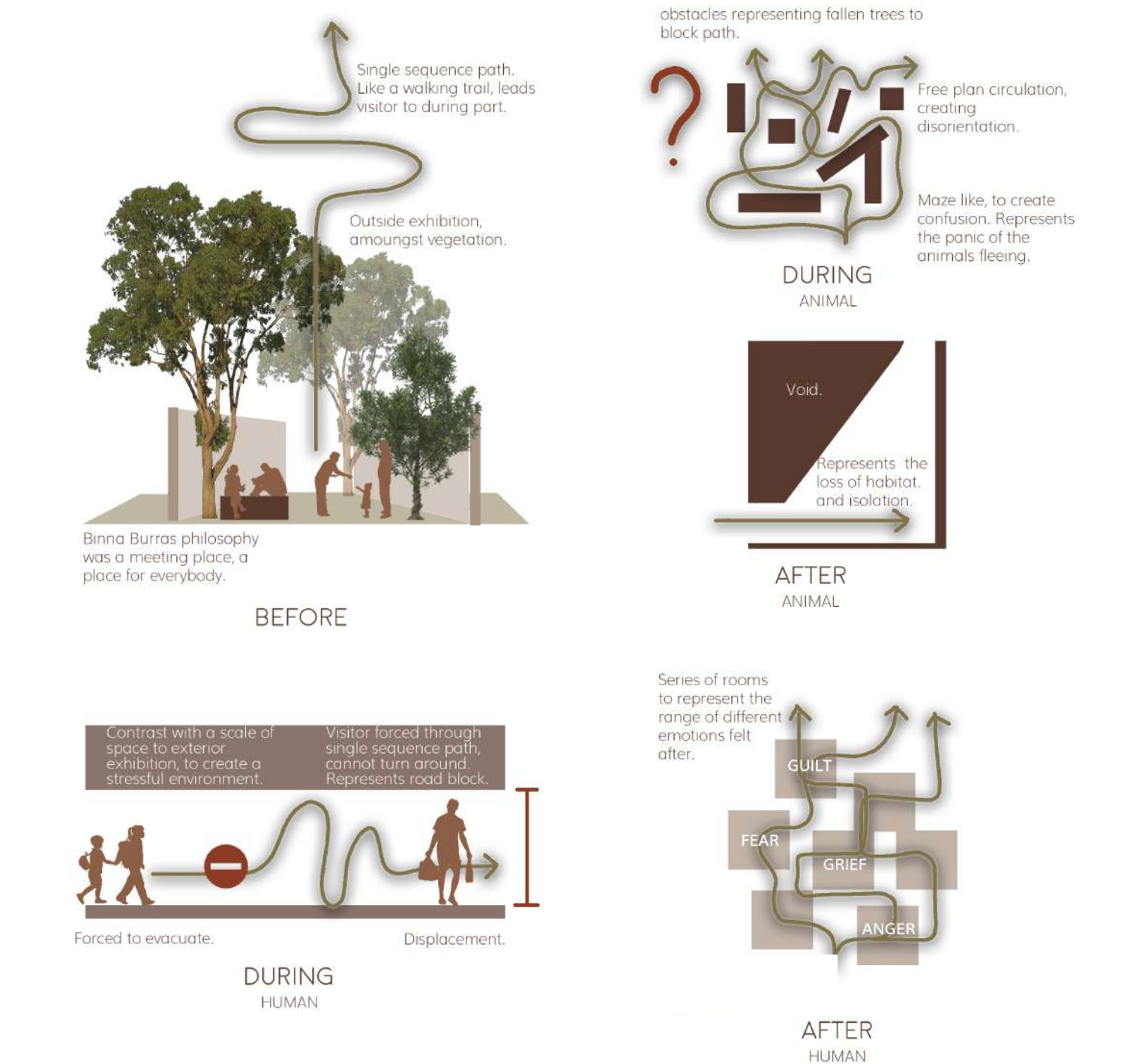
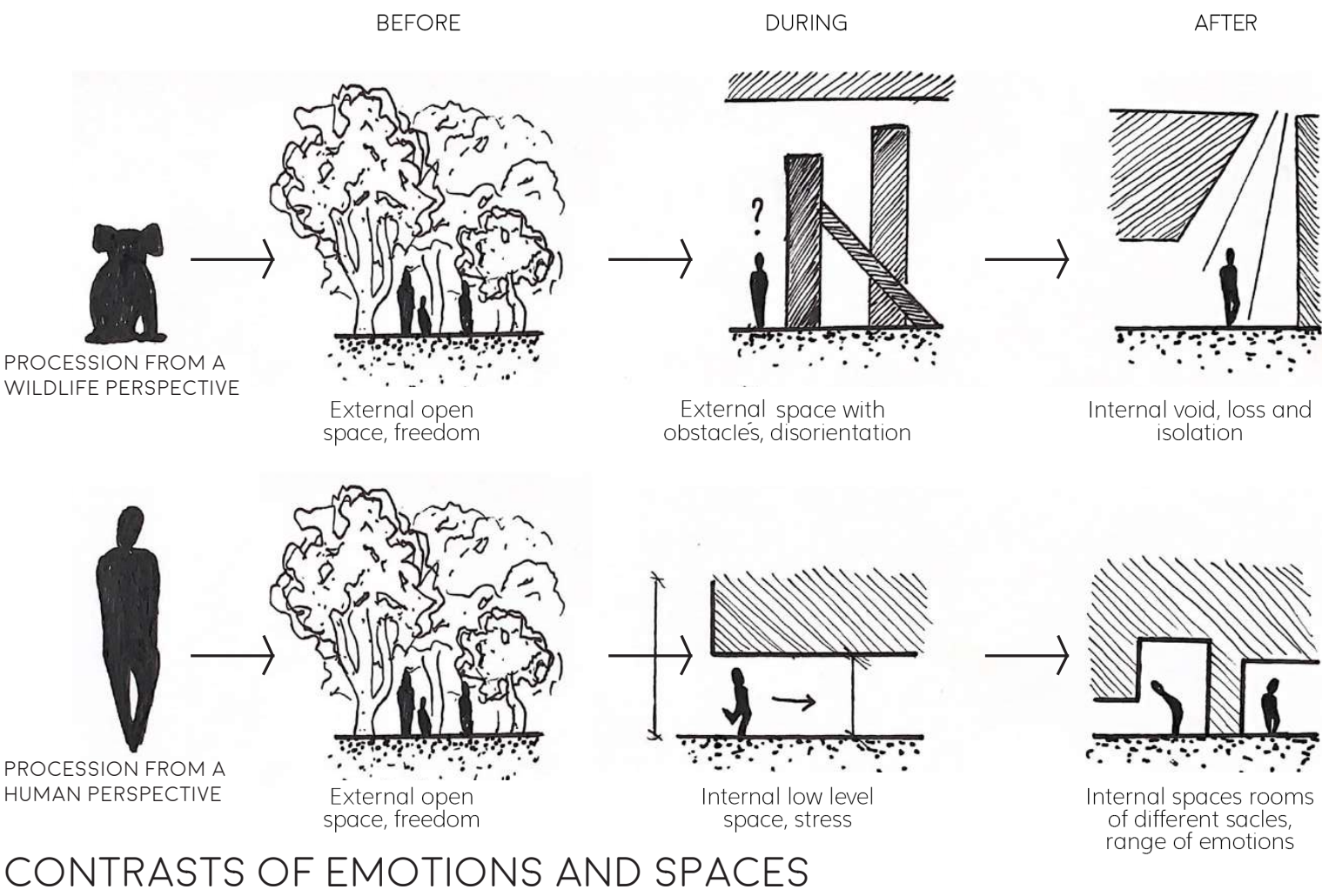
EXTERIOR RENDER- ENTRANCE TO MUSEUM



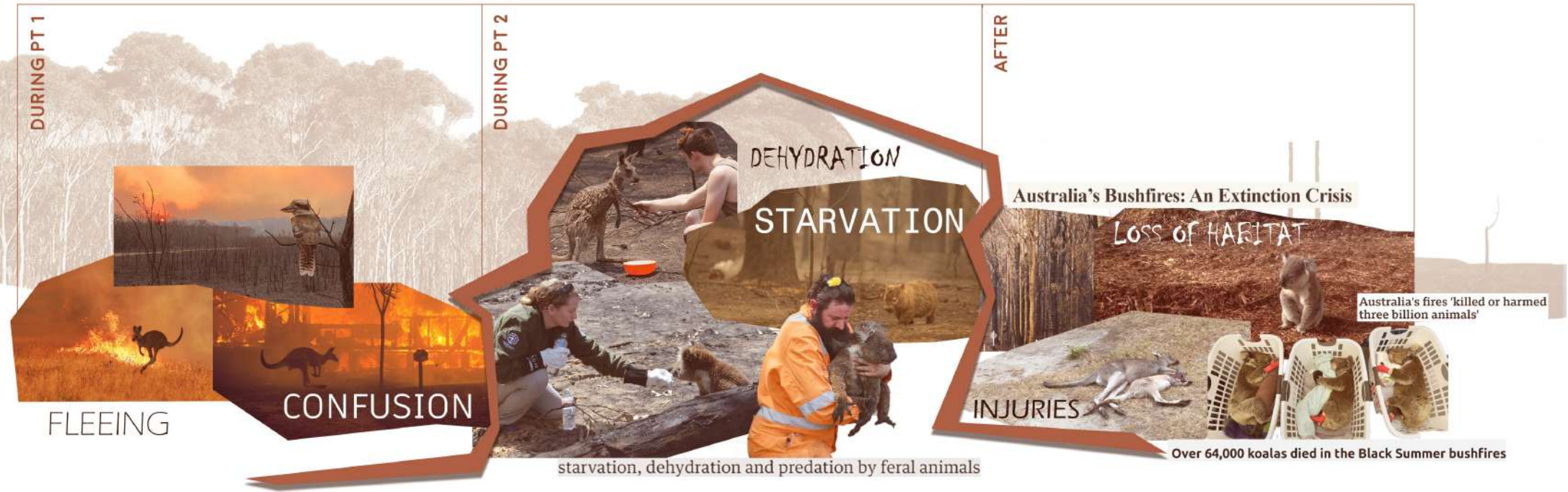
TWO NARRATIVES



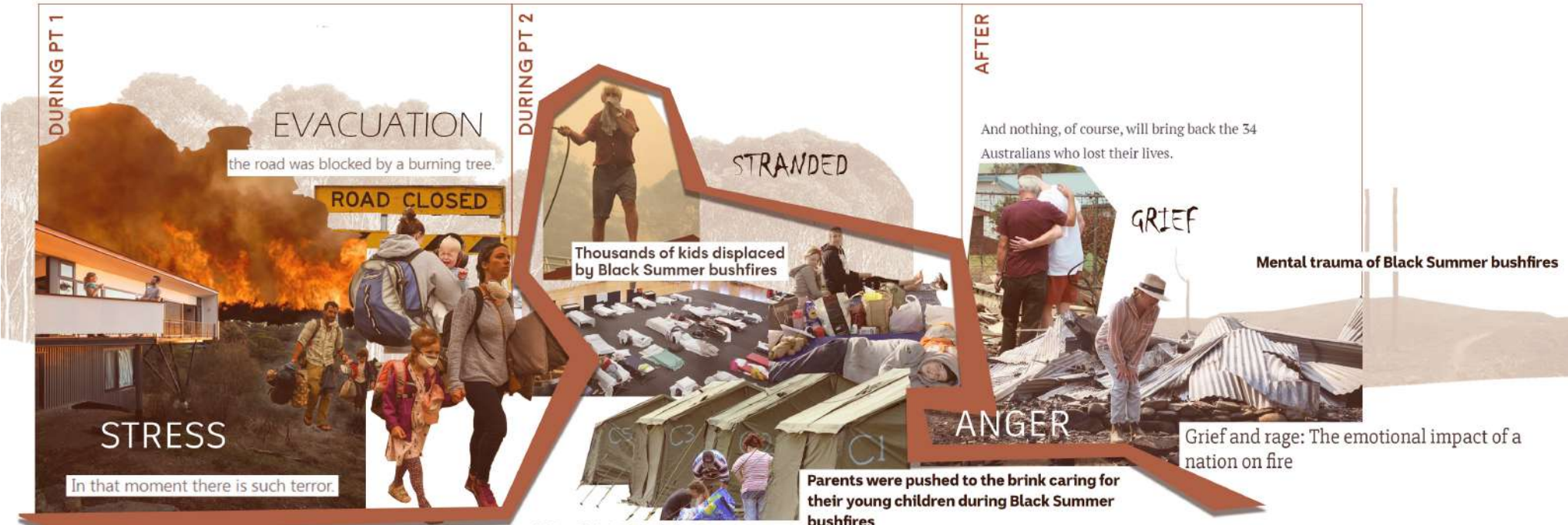
LOCATION PLAN



CONCEPT

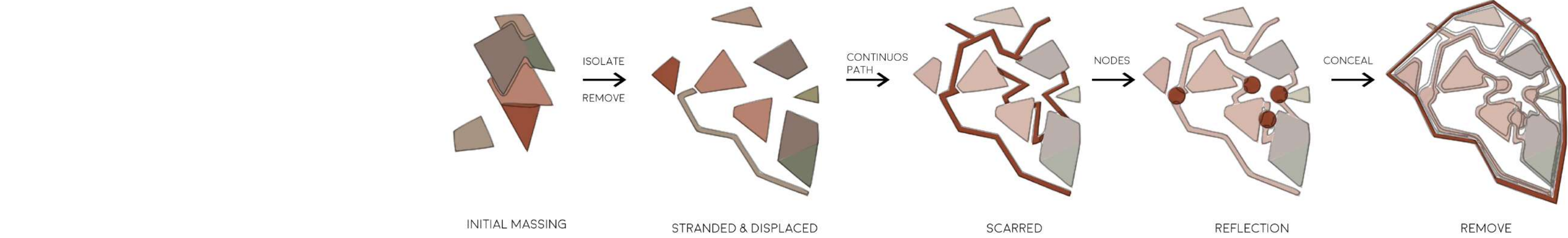
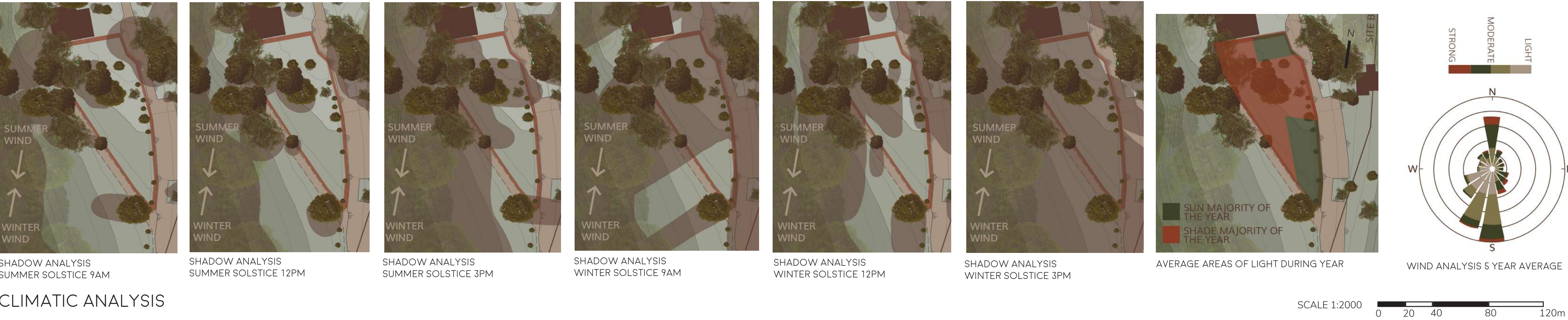
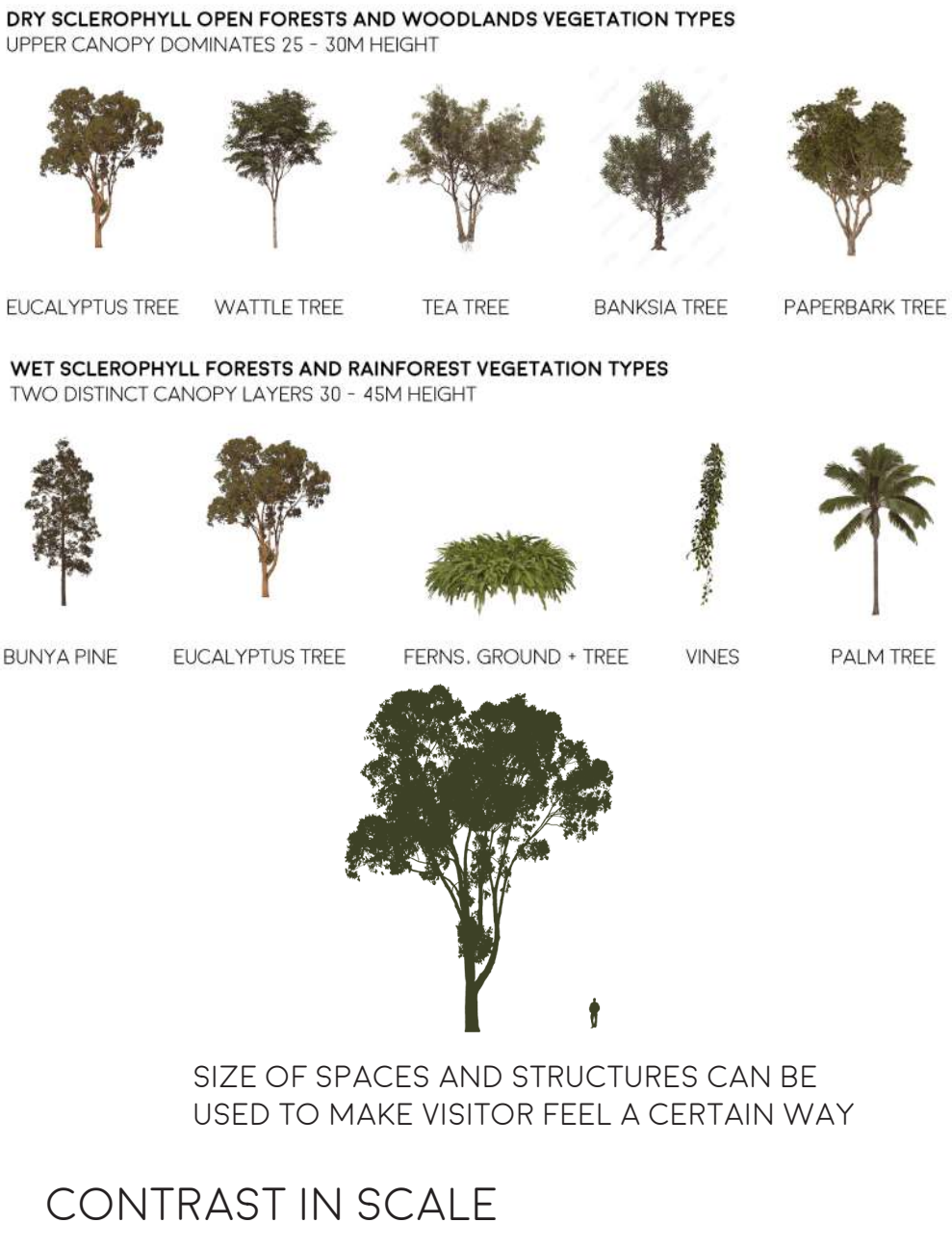
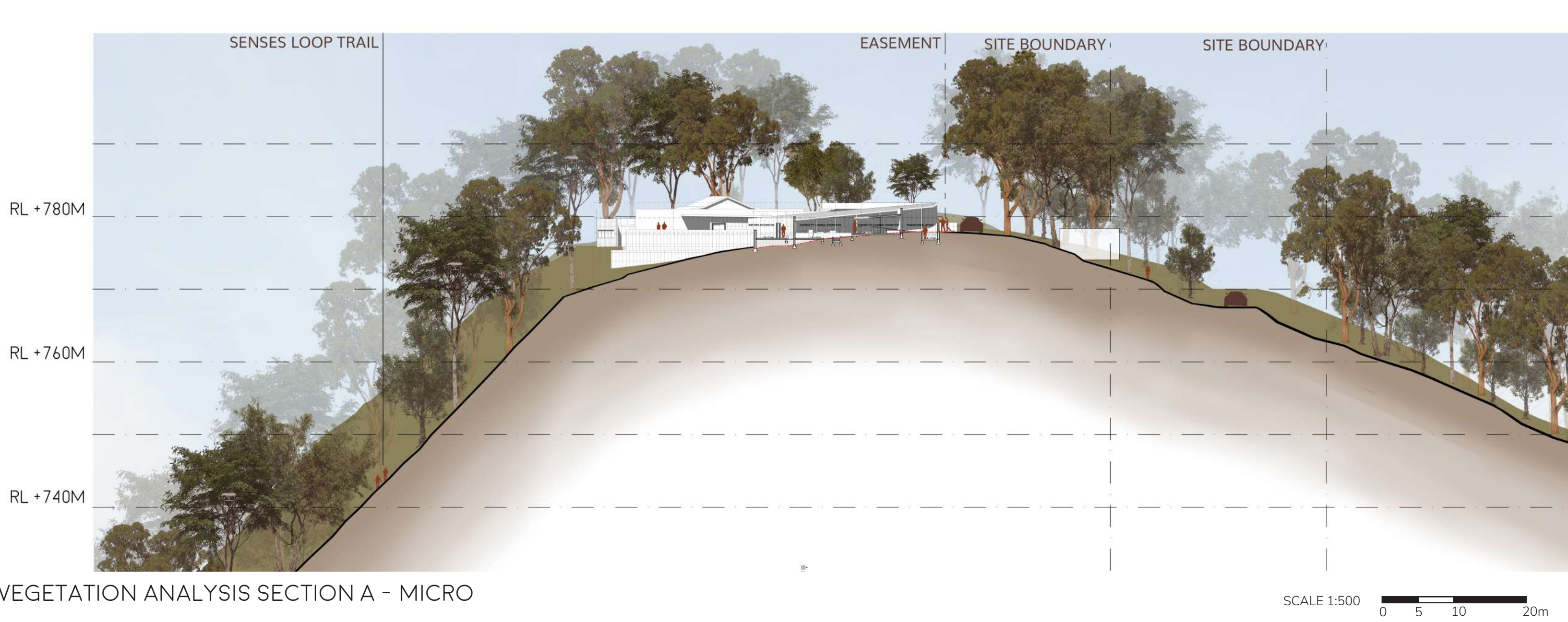


ANIMAL EXPERIENCE AND EMOTIONS OF BUSHFIRE EVENTS



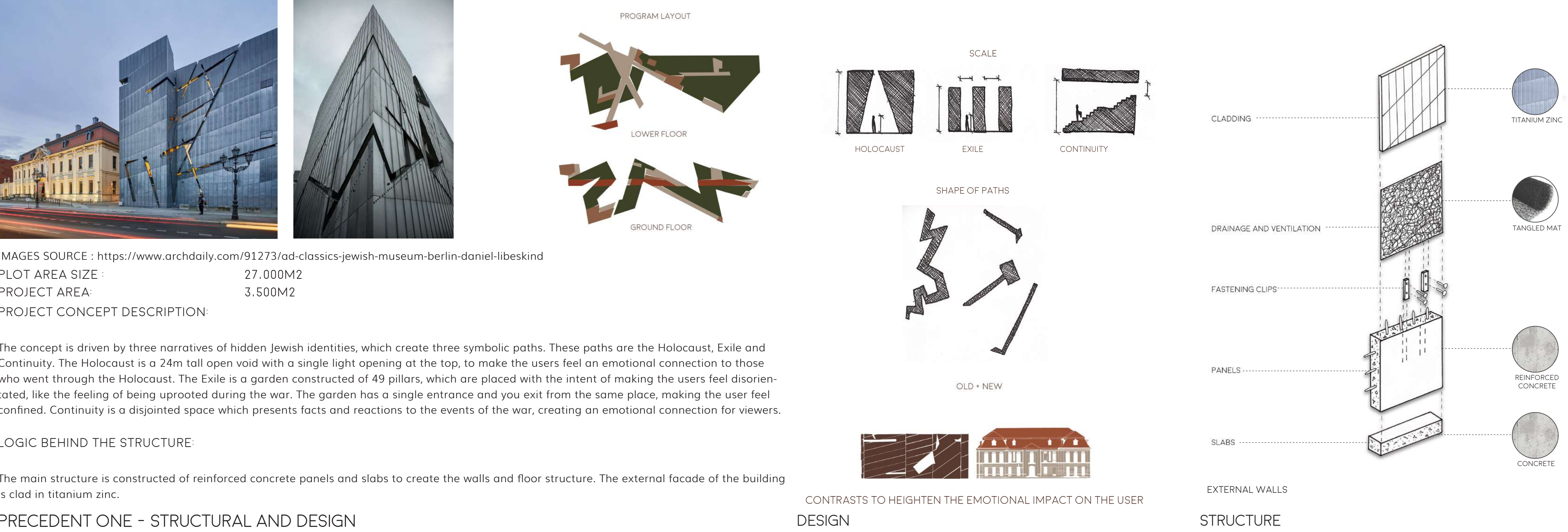
HUMAN EXPERIENCE AND EMOTIONS OF BUSHFIRE EVENTS





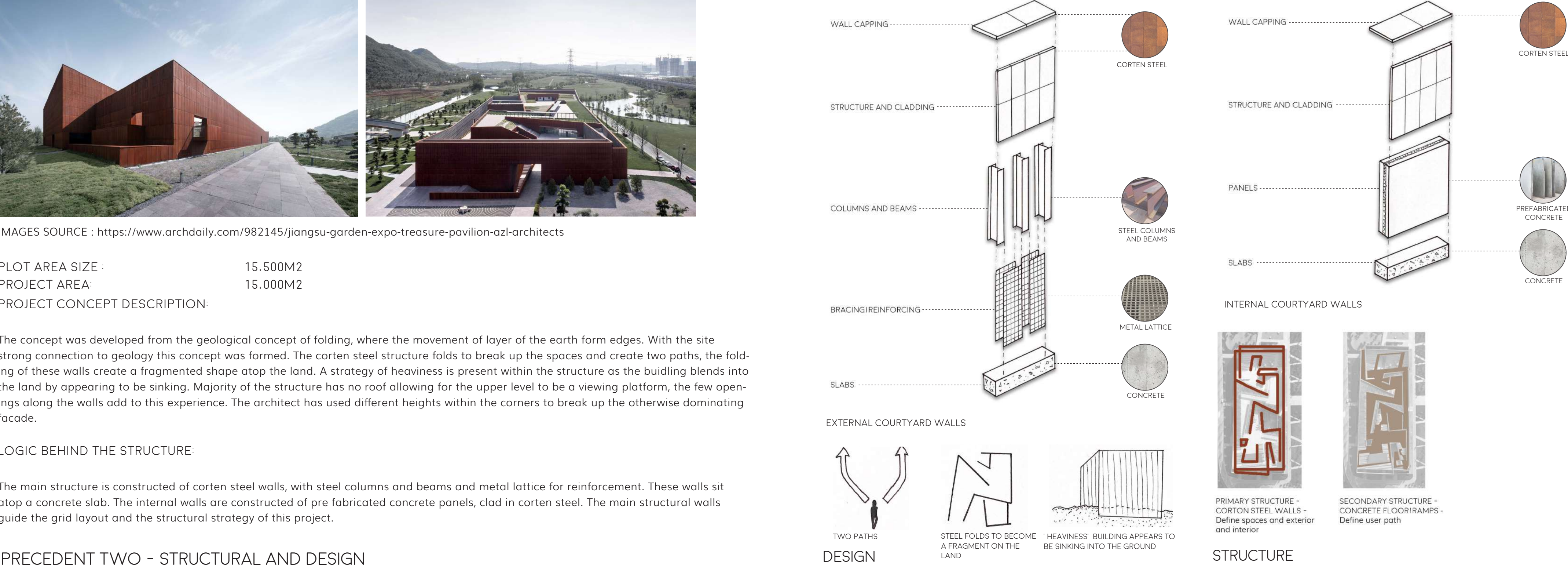
THE JEWISH MUSEUM-BERLIN, GERMANY

DANIEL LIBESKIND 2001



JIANGSU GARDEN EXPO TREASURE PAVILION-JIANGSU, CHINA

AZL ARCHITECTS 2021





PROPOSED SITE FOR BUSHFIRE MEMORIAL MUSEUM

FDI - FIRE INDEX RATING	40
VEGETATION CALSSIFICATION	A FOREST
DISTANCE OF BUILDING SITE FROM VEGETATION	10M
SLOPE OF VEGETATION	DOWNSLOPE
BAL	BAL - FZ

BAL - FZ  
FIRE ZONE. EXTREME RISK OF EMBER ATTACK, BURNING DEBRIS, AND DIRECT EXPOSURE TO FLAME.

BAL SITE PLAN ANALYSIS

RAINWATER COLLECTION TANKS

SEPTIC AND TREATMENT TANKS

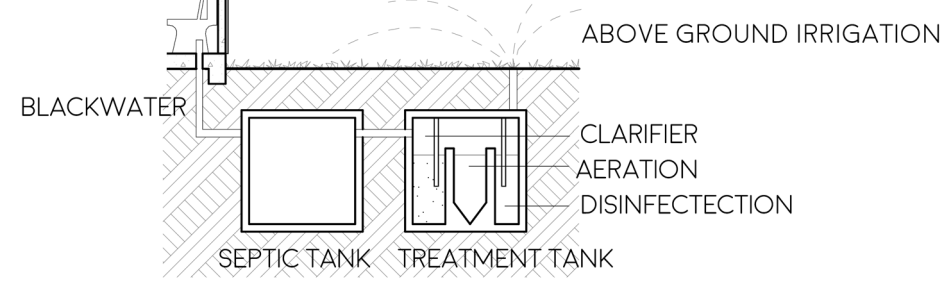
BUIDINGS REQUIRING POTABLE WATER + RAINWATER

LANDSCAPE REQUIRING IRRIGATION FROM TREATED BLACKWATER

WATER LINE + CONNECTIONS

SEWAGE LINE + CONNECTIONS

BUILDING



PASSIVE DESIGN STRATEGY - WASTEWATER BLACK WATER TREATMENT

DIAGRAM OF SERVICES AND INFRASTRUCTURE



SIMILAR - MATERIALS

CONTRAST - APPLICATION FOR BUSHFIRE COMPLIANCE

PROPOSED MATERIALS AND STUCTURE - BUSHFIRE COMPLIANCE. NON COMBUSTIBLE

RAINWATER TANK CALCULATIONS

ROOF AREA= 585M2  
ANNUAL RAINFALL AVERAGE (BINNA BURRA 2010-PRESENT) = 2491MM  
= MIN TANK SIZE = 486.000L

SELECTED TANK

4 X BUSHMANS 125.000L AQUALINE STEEL LINER TANK  
- COMPLIES WITH AS 4020 POTABLE WATER  
- DIAMETER- 8.62M. WIDTH- 2.60M

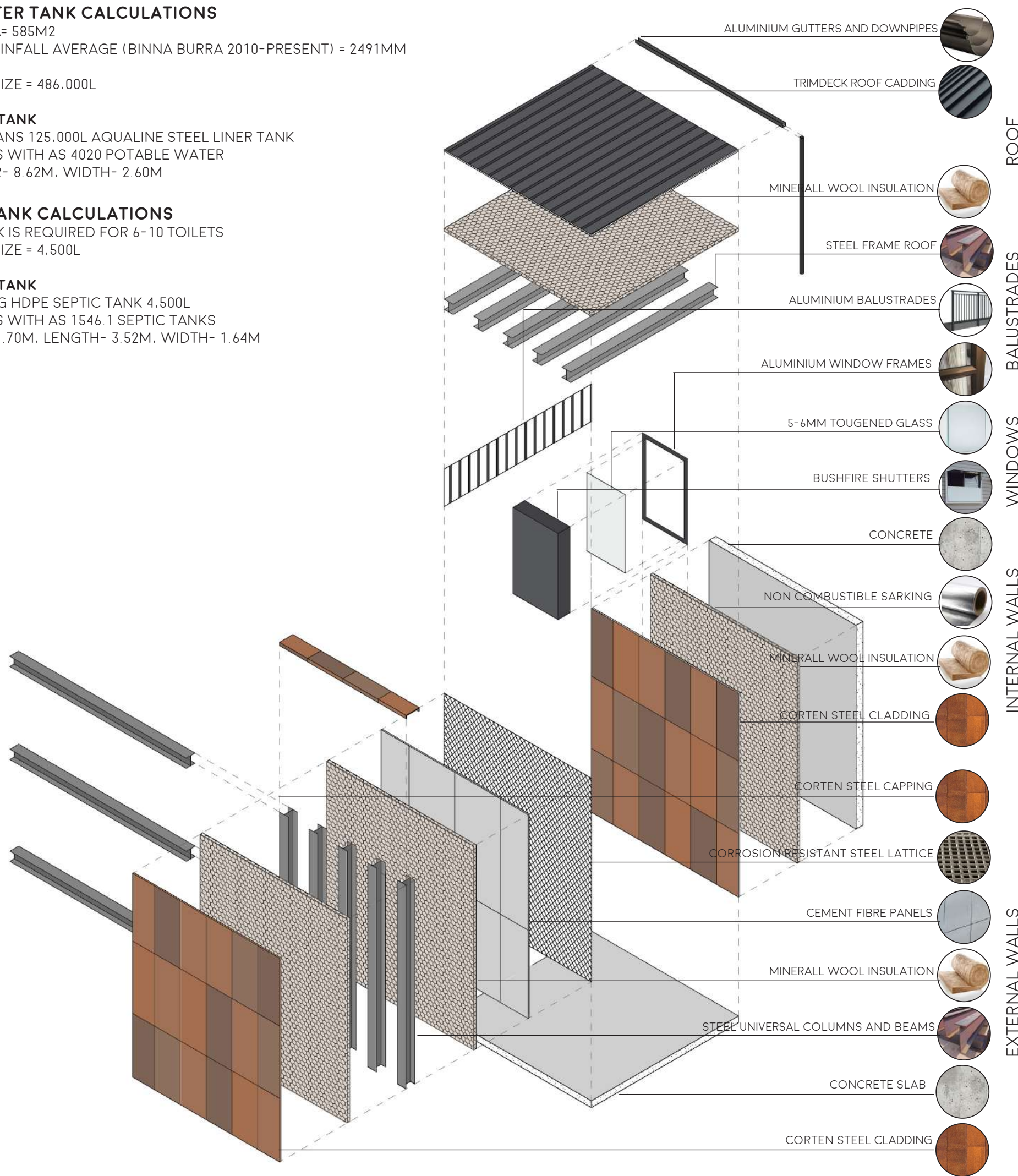
SEPTIC TANK CALCULATIONS

4.500L TANK IS REQUIRED FOR 6-10 TOILETS  
MIN TANK SIZE = 4.500L

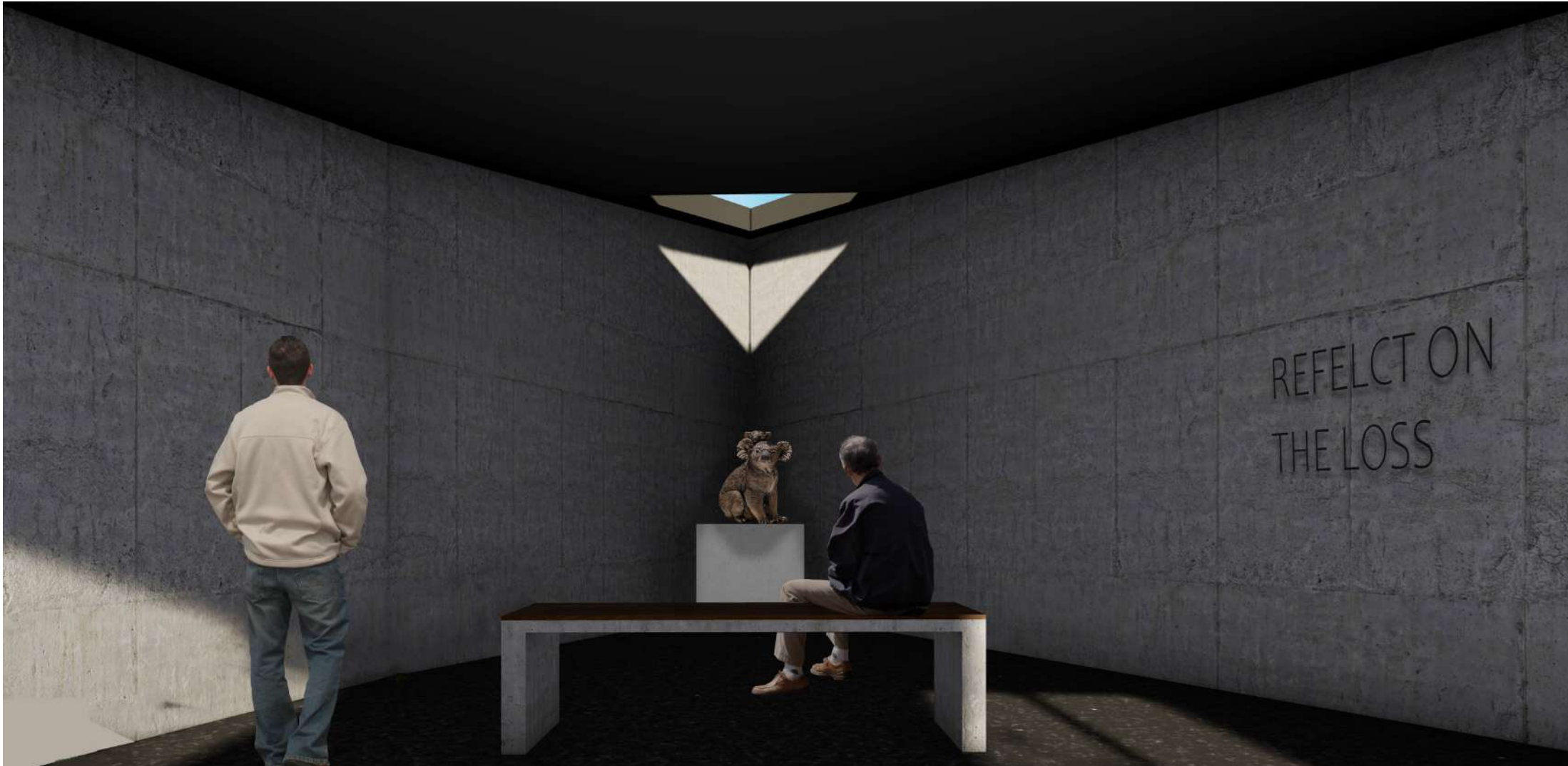
SELECTED TANK

EVERYTHING HDPE SEPTIC TANK 4.500L  
- COMPLIES WITH AS 1546 1 SEPTIC TANKS  
- HEIGHT- 1.70M. LENGTH- 3.52M. WIDTH- 1.64M

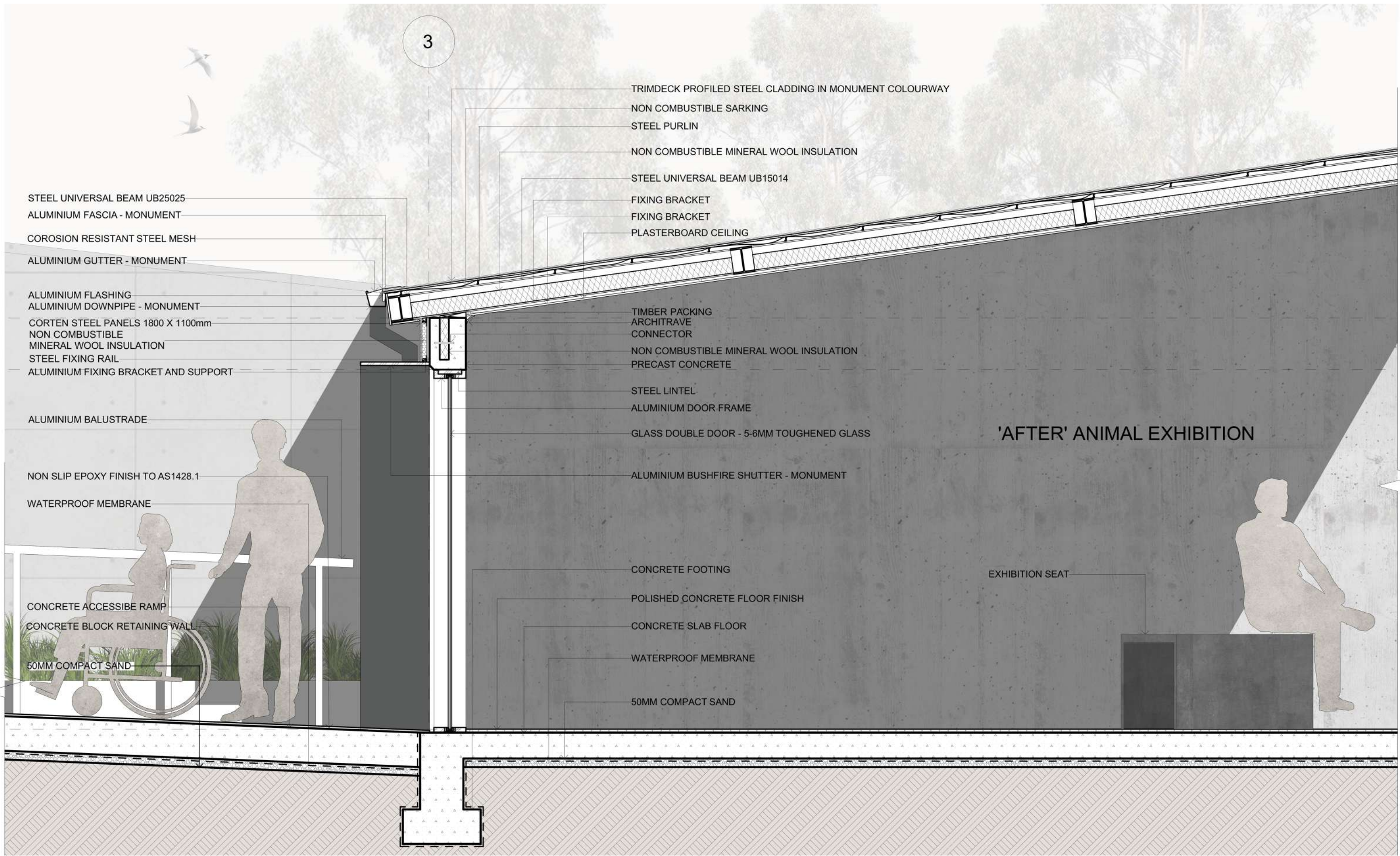
- UNENCLOSED SUBFLOOR SUPPORTS - Concrete
- EXTERNAL FREESTANDING WALLS MINIMUM 90MM THICKNESS
  - Corten steel cladding and wall capping
  - Steel universal columns and beams
  - Corrosion resistant steel lattice
  - Mineral wool insulation
  - Sarking
  - Cement fibre panels
- WALLS WITH INTERNAL FACES MINIMUM 90MM THICKNESS
  - Corten steel cladding
  - Mineral wool insulation
  - Sarking
  - 150mm reinforced concrete
- INTERNAL WALLS MINIMUM 90MM THICKNESS
  - 140mm core filled concrete block with reinforcement
- JOINTS
  - Sarking over frame and under external cladding to cover joints
  - Weep holes and joints larger than 3mm sealed
- EXTERNAL WINDOWS AND DOORS
  - Aluminium bushfire shutters
  - Operable windows screened with corrosion resistant steel
  - Non combustible aluminium frames
  - 5-6mm toughened glass
- GAS AND WATER PIPES ABOVE GROUND - Metal
- ROOF AND WALL JUNCTION - Sealed with roof lining
- ROOF VENTILLATION OPENINGS - Screened with corrosion resistant steel
- ROOF
  - Trimdeck colourbond cladding
  - Steel frame
  - Mineral wool insulation
- GUTTERS - Aluminium
- DECKING - Fibre cement sheet or concrete finish
- BALUSTRADES IF LESS THAN 125MM FROM GLAZING NEED TO BE NON COMBUSTIBLE
  - Aluminium



AXONOMETRIC PROPOSED MATERIALS - BUSHFIRE COMPLIANCE. NON COMBUSTIBLE



INTERIOR RENDER - 'AFTER' ANIMAL EXHIBITION



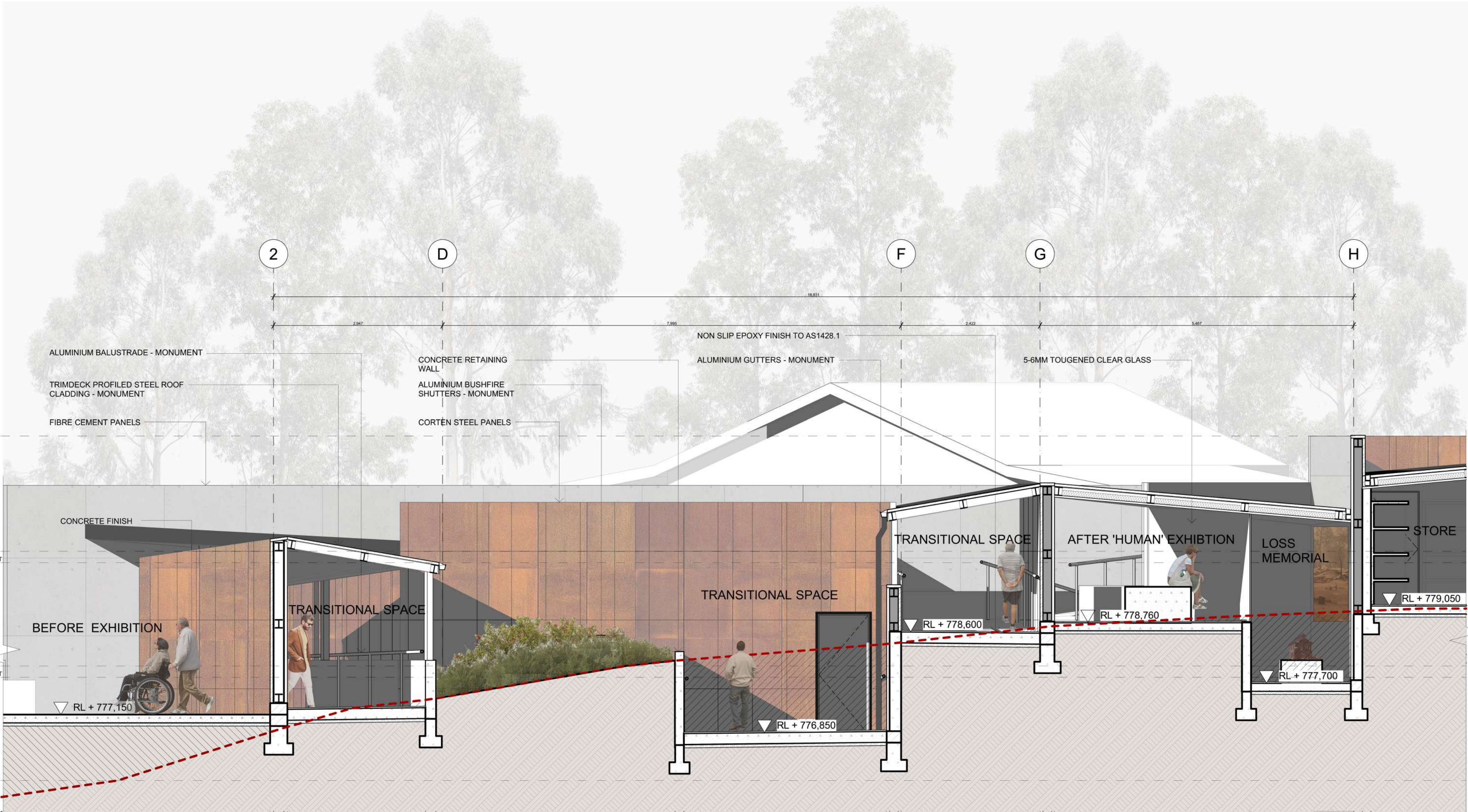
SECTION C

SCALE 1:20  
0 200 400 800mm

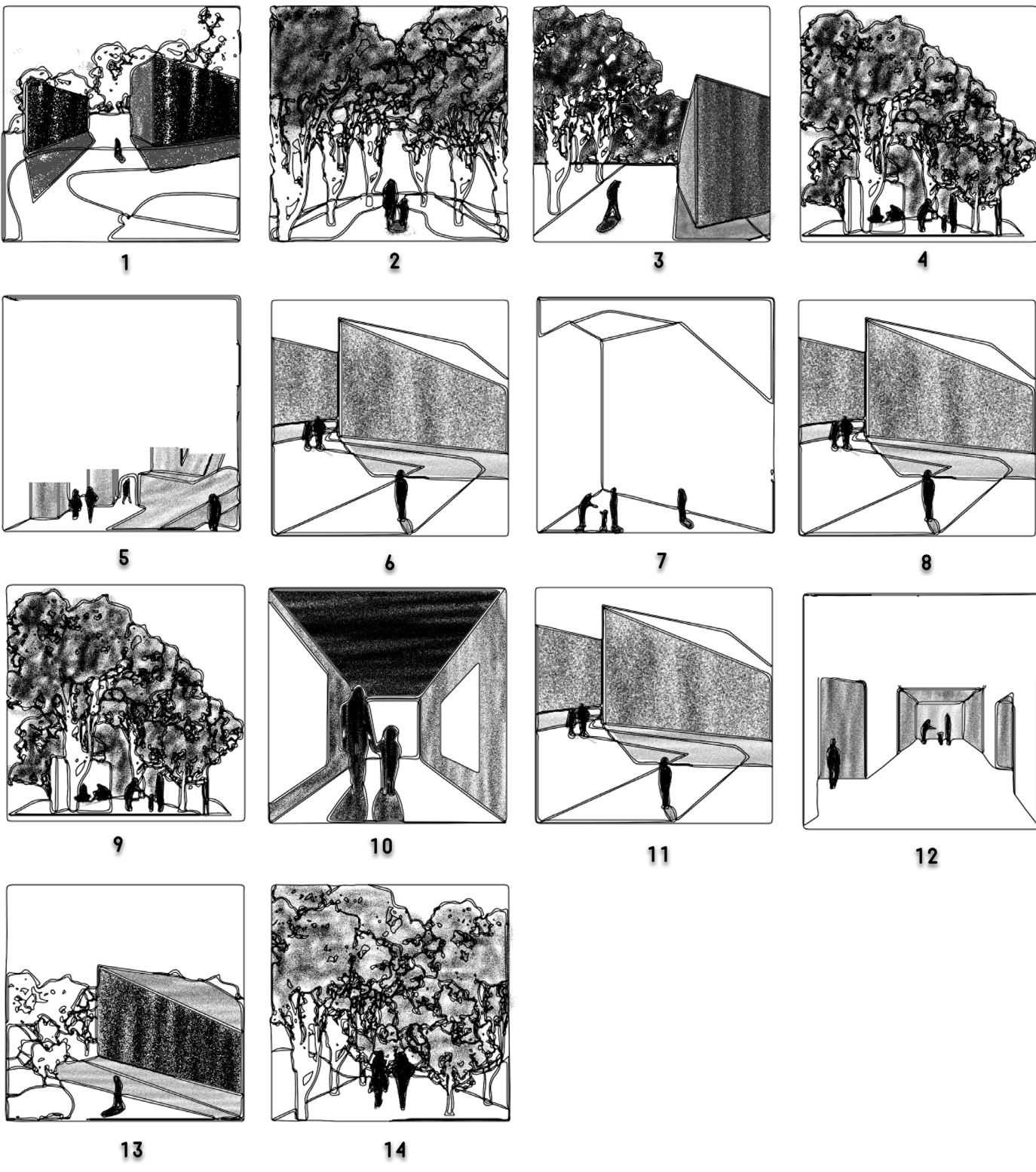




SECTION A



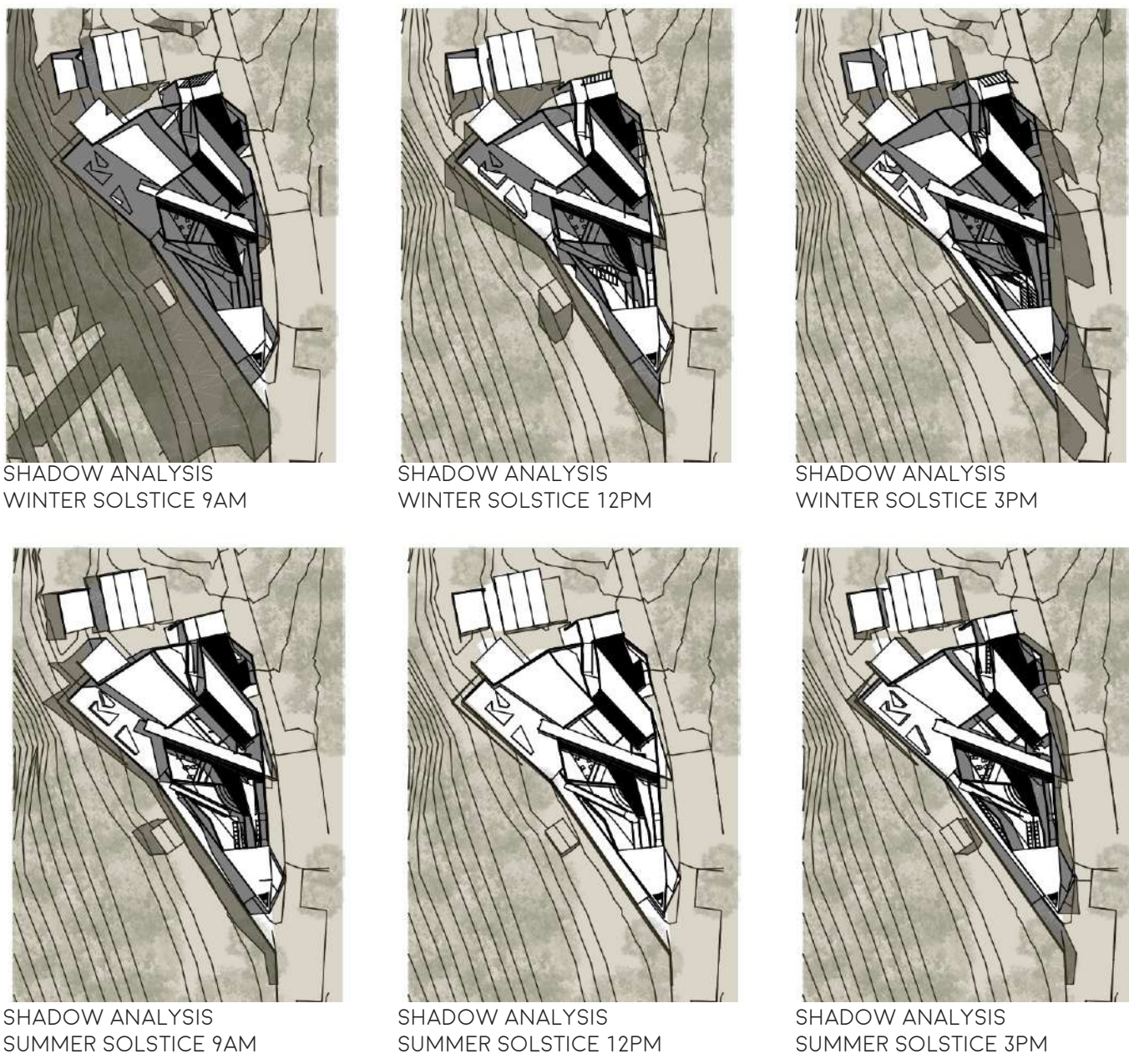
SECTION B



LOCATION	PACE	DESCRIPTION
1 Road entry	Movement	First view of the museum, emotions of isolation and intimidation.
2 Senses trail	Start of journey	The visitor is guided by the clear path and is able to understand the landscape, allows insight into the creation and attraction of Binna Burra. Emotions of sense of belonging and happiness.
3 Entrance into Before	Movement	Transition from landscape to built form, contrast between definitive edge and landscape creates an imposing structure. Emotions of hesitation and anxiety.
4 'Before' exhibition	Gathering	Large open space with a strong connection to the landscape. Allows for a place to gather and reflect on the philosophy of Binna Burra as a meeting place. Emotions of appreciation.
5 'During animal' exhibition	Movement	Structural elements to block paths. Visitor feels emotions of the animals as they are forced to flee and seek refuge without a clear understanding. Emotions of fear, and confusion.
6 Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
7 'After animal' exhibition	Pause	Enter into a void. The void signifies the after experience of the animals, the visitor feels the isolation from their family and the loss of habitat as a heavy weight.
8 Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
9 Before' exhibition	Gathering	Return to large open space with a strong connection to the landscape. Allows for a place to gather and reflect before continuing. Visitor has a new appreciation for Binna Burra.
10 'During human' exhibition	Movement	Transition from an open space to a confined low height space emotions of stress and anticipation, as the user is forced to progress forward/evacuate.
11 Transitional node	Pause	Path to guide visitor to next exhibition, allows for time to reflect. Path is bare to let visitor sit with their thoughts.
12 'After human' exhibition	Movement	Transition to an enclosed space, emotions associated with the aftermath of the fires, grief related to the loss.
CHOICE OF 'FUTURE' OUTCOME		
13 Exit via road	Movement	The building structure shadows the road and the visitor feels isolation with a definitive contrast between the structure on the left and the landscape on the right.
14 Exit via 'Before' exhibition	Movement	The visitor returns to the 'before exhibition and is reminded of Binna Burra pre fire. They leave with the feeling of hope for regrowth.

PROCESSION THROUGH MUSEUM





SHADOW ANALYSIS - SHADOW IMPACT OF BUILDING

SCALE 1:1000 0 10 20 40m

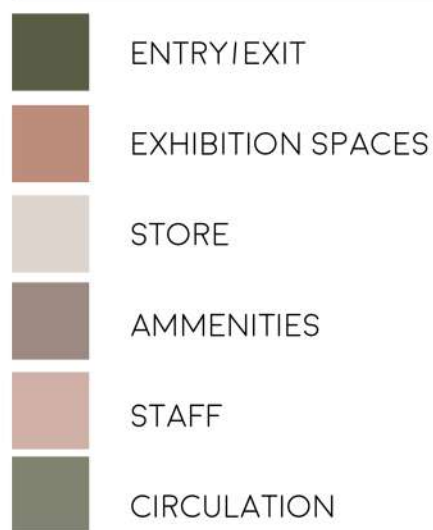
ADDED AND REMOVED LANDSCAPE



OUTSIDE + INSIDE



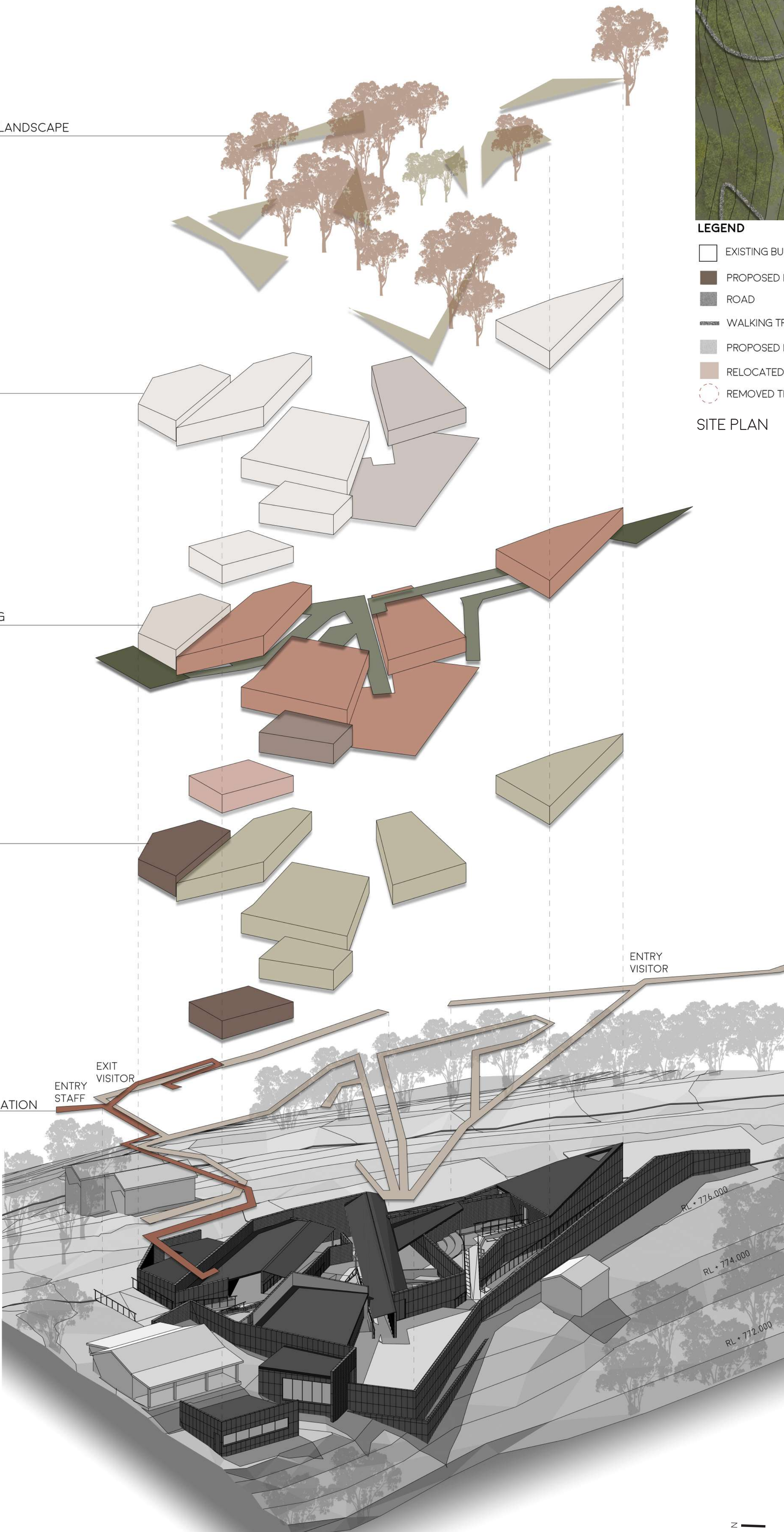
SPATIAL PROGRAMMING



PUBLIC + PRIVATE



VISITOR + STAFF CIRCULATION



AXONOMETRIC

SCALE 1:250 0 5 10m



SITE PLAN

SCALE 1:500 0 5 10 20m

SPATIAL PROGRAMMING - 500M2

**EXHIBITION AREAS - INSIDE**  
EXHIBITION 'DURING' - HUMAN EXPERIENCE  
EXHIBITION 'AFTER' - HUMAN EXPERIENCE  
EXHIBITION 'AFTER' - ANIMAL EXPERIENCE

109M2  
88M2  
72M2  
**269M2**

**OFFICES AND WORKSPACES**

SHARED OFFICE  
MEETING ROOM  
STAFF KITCHENNETTE

18M2  
12M2  
6M2  
**36M2**

**STORAGE ROOMS**

ARTIFACT STORAGE  
COLLECTION STORAGE  
ARCHIVE STORAGE

16M2  
16M2  
14M2  
**48M2**

**RESTROOMS AND AMMENITIES**

STAFF BATHROOMS  
PUBLIC BATHROOMS  
RECEPTION/INFORMATION DESK  
GIFT SHOP AND CAFE  
DELIVERIES  
CLEANERS STORE

12M2  
30M2  
12M2  
40M2  
5M2  
4M2  
**103M2**

**PATHS AND ACCESS - OUTSIDE EXHIBITIONS**

EXHIBITION 'BEFORE'  
EXHIBITION 'DURING' - ANIMAL EXPERIENCE

100M2  
96M2

**456M2 + 196M2 EXTERNAL SPACE**

4-6M PER PERSON  
1 TOILET PER 20 FEMALES  
1 TOILET PER 20 MALES

50 FEMALES SO 3 TOILETS  
50 MALES SO 3 TOILETS

SPATIAL PROGRAMMING - 500M2

EXHIBITION AREAS



OFFICES AND WORKSPACES



STORAGE ROOMS



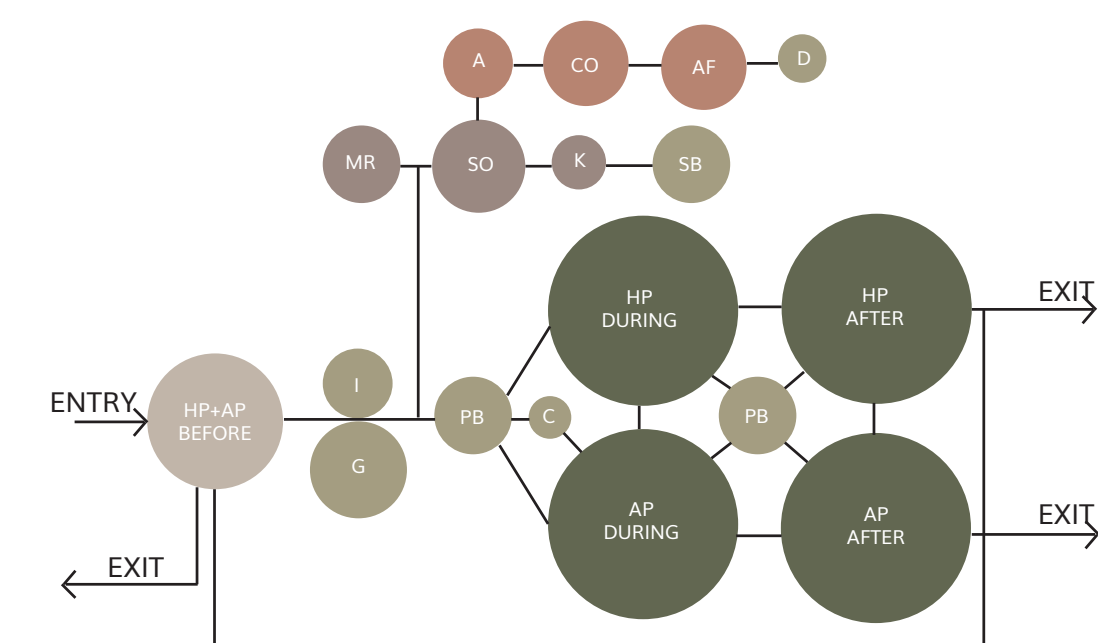
RESTROOMS AND AMMENITIES



EXTERNAL EXHIBITION AREA



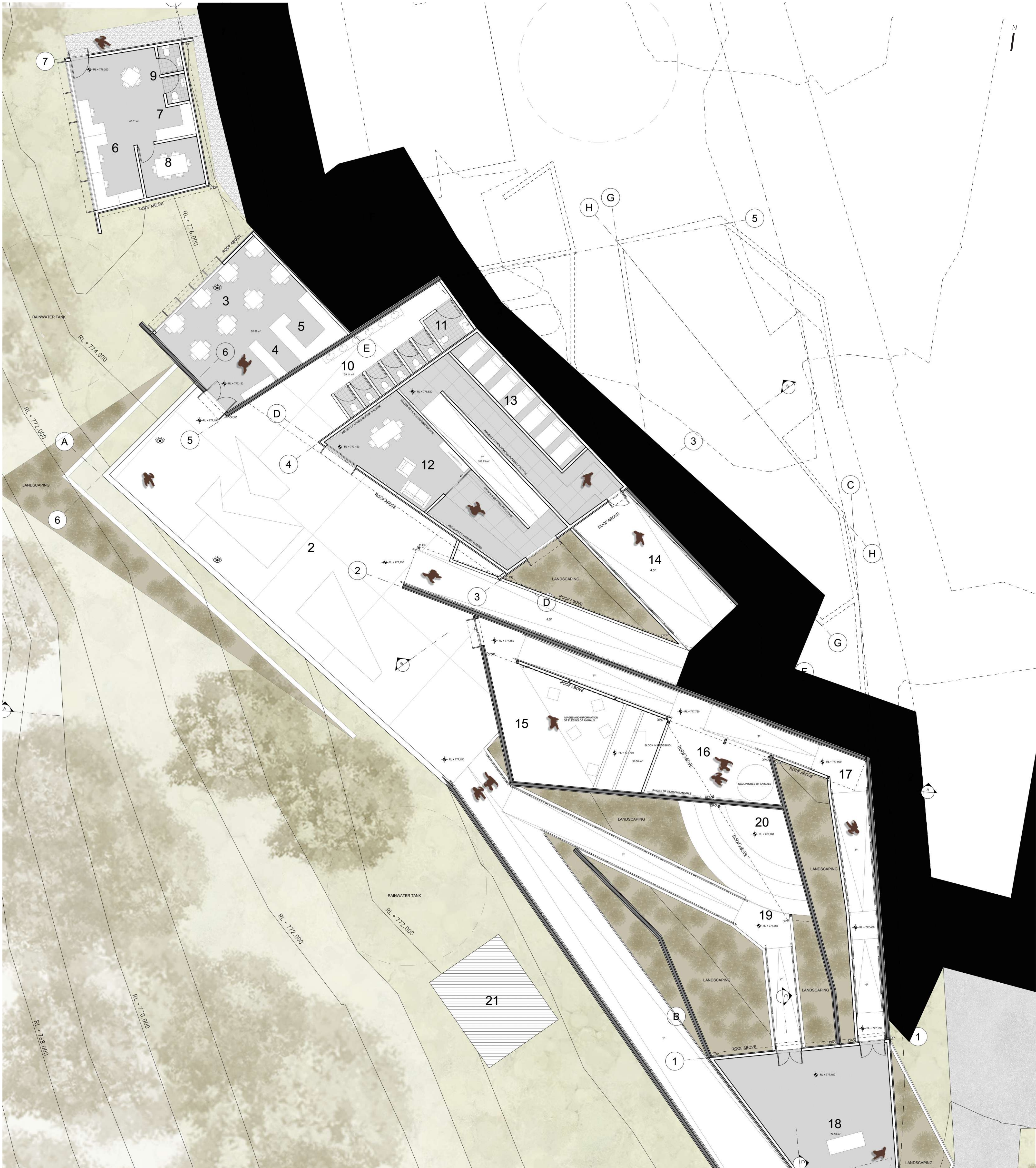
**KEY**  
HP HUMAN PERSPECTIVE  
AP ANIMAL PERSPECTIVE  
SO SHARED OFFICE  
MR MEETING ROOM  
K KITCHENNETTE  
AF ARTIFACT STORAGE  
CO COLLECTION STORAGE  
A ARCHIVE STORAGE  
G GIFT SHOP AND CAFE  
SB STAFF BATHROOM  
PB PUBLIC BATHROOM  
I INFORMATION/RECEPTION DESK  
D DELIVERIES  
C CLEANERS STORE



LAYOUT OF PROGRAMS

SCALE 1:400 0 4 8 16m





- LEGEND**
- 1 ENTRY
  - 2 'BEFORE' EXHIBITION
  - 3 CAFE SEATING
  - 4 INFORMATION/GIFT
  - 5 CAFE KITCHEN
  - 6 SHARED OFFICE
  - 7 STAFF KITCHENETTE
  - 8 MEETING ROOM
  - 9 STAFF BATHROOMS
  - 10 PUBLIC BATHROOMS
  - 11 ACCESSIBLE BATHROOM
  - 12 'DURING PT 1' HUMAN EXHIBITION
  - 13 'DURING PT 2' HUMAN EXHIBITION
  - 14 TRANSITIONAL SPACE
  - 15 'DURING PT 1' ANIMAL EXHIBITION
  - 16 'DURING PT 2' ANIMAL EXHIBITION
  - 17 TRANSITIONAL SPACE
  - 18 'AFTER' ANIMAL EXHIBITION
  - 19 TRANSITIONAL SPACE
  - 20 PLACE FOR REFLECTION
  - 21 NURSERY

GROUND FLOOR PLAN 1-1

SCALE 1:100 0 1 2 4m



STRUCTURAL STRATEGY-DIAGRAM





CIRCULATION OF PEOPLE AND WIND-DIAGRAM

SCALE 1:500

0 5 10 20m

FIRST FLOOR PLAN 2-2

SCALE 1:100

0 1 2 4m

LEGEND

- 1 EXIT
- 2 'AFTER' HUMAN EXHIBITION
- 3 LOSS MEMORIAL DISPLAY
- 4 EMOTIONS OF GRIEF DISPLAY
- 5 ARTIFACT + COLLECTION STORE
- 6 ARCHIVE STORE
- 7 DELIVERIES
- 8 TRANSITIONAL SPACE
- 9 BARN
- 10 CABIN
- 11 NURSERY

LEGEND

- RAMPS
- FLOOR LEVELS
- PREDOMINANT WIND