

# THE SPIRIT OF BINNA BURRA

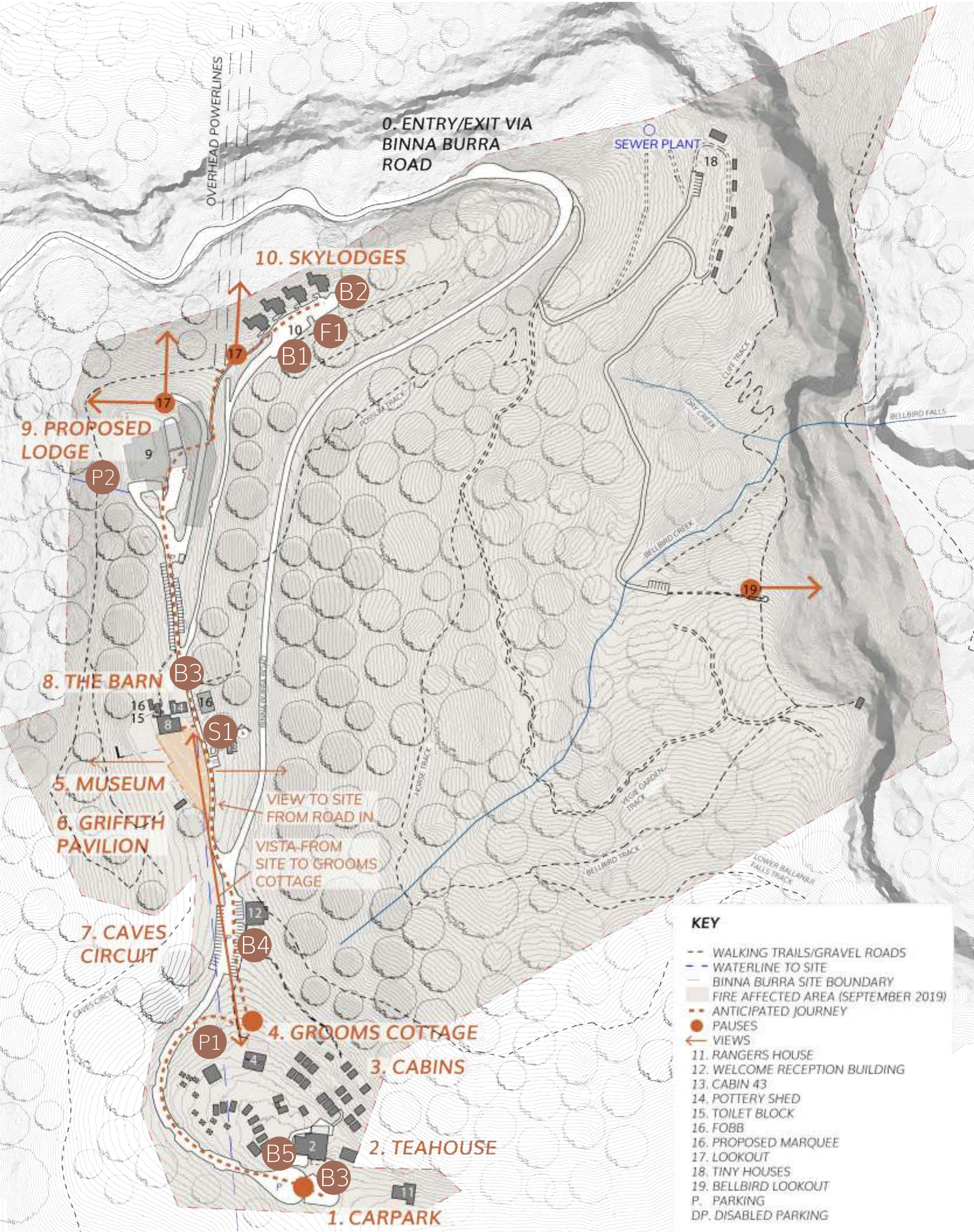
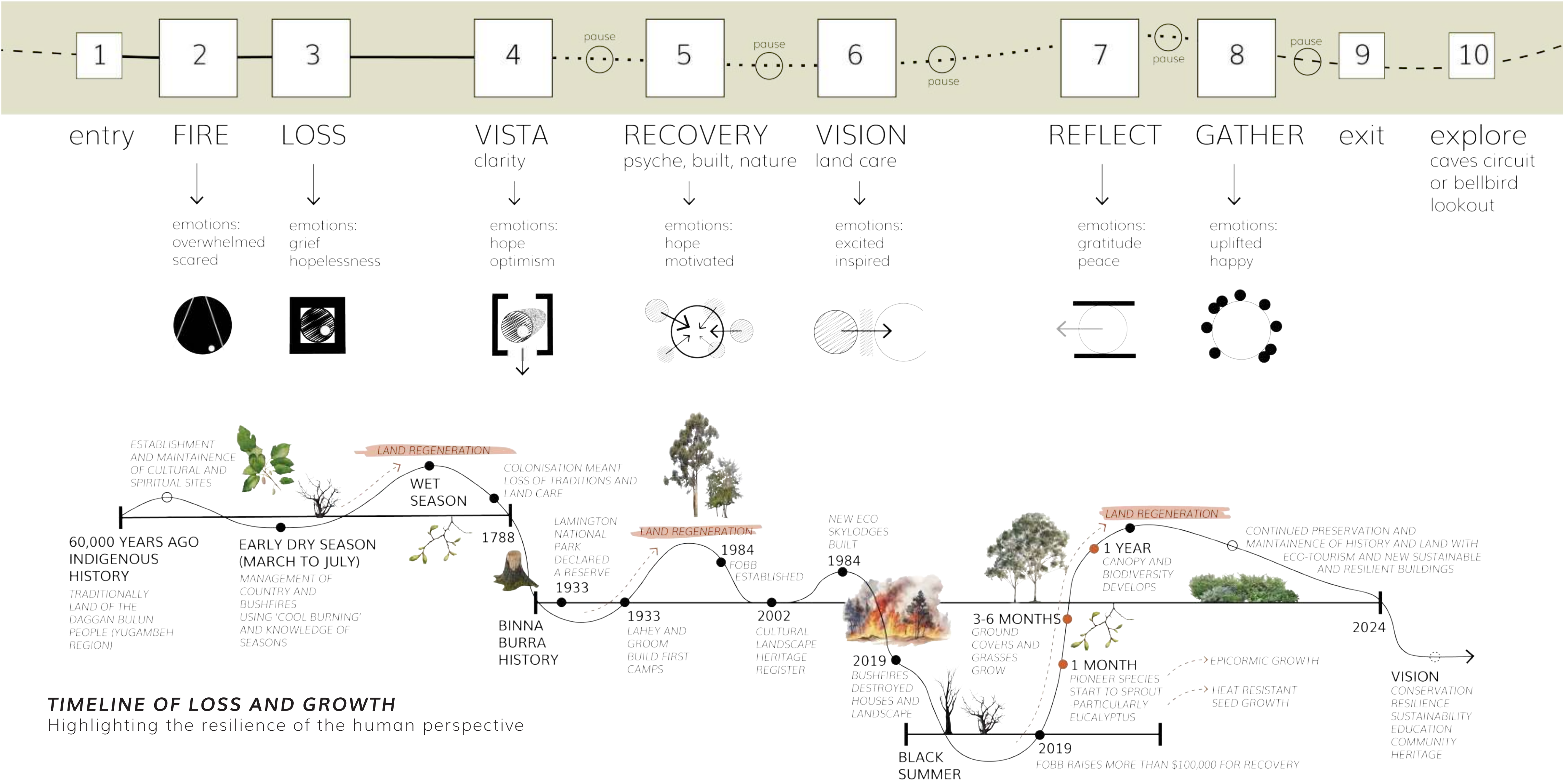
## BUSHFIRE MUSEUM

The concept for the museum draws inspiration from the Circle of Fire. For place and people, fire brings destruction and growth. From these experiences arise new ways for people, and therefore place, to move forward, shaped by evolving perspectives.

### PERSPECTIVE as a concept telling the bushfire narrative

The concept of perspective represents the connection between **community perspective** and **progression of place** in terms of belonging, built environment, and land care (indigenous practices). The museum reflects the people's journey from loss, to growth, to reflection through **specific views, courtyards, and circulation.**

The idea of "vista" is used figuratively and physically to symbolise the process of gaining perspective, achieving clarity, and **looking beyond** the immediate aftermath of trauma. It reflects the personal journeys of recovery and overwhelming community resilience experienced by the people in Binna Burra following the Black Summer bushfires in 2019. The museum seeks to capture this spirit - seeing beyond destruction, using **memory as a motivator to move forward.**



### MATERIAL ANALYSIS

#### BUILDINGS



#### WAYFINDING - FENCING, SIGNAGE & PATHWAYS



#### PLANTING

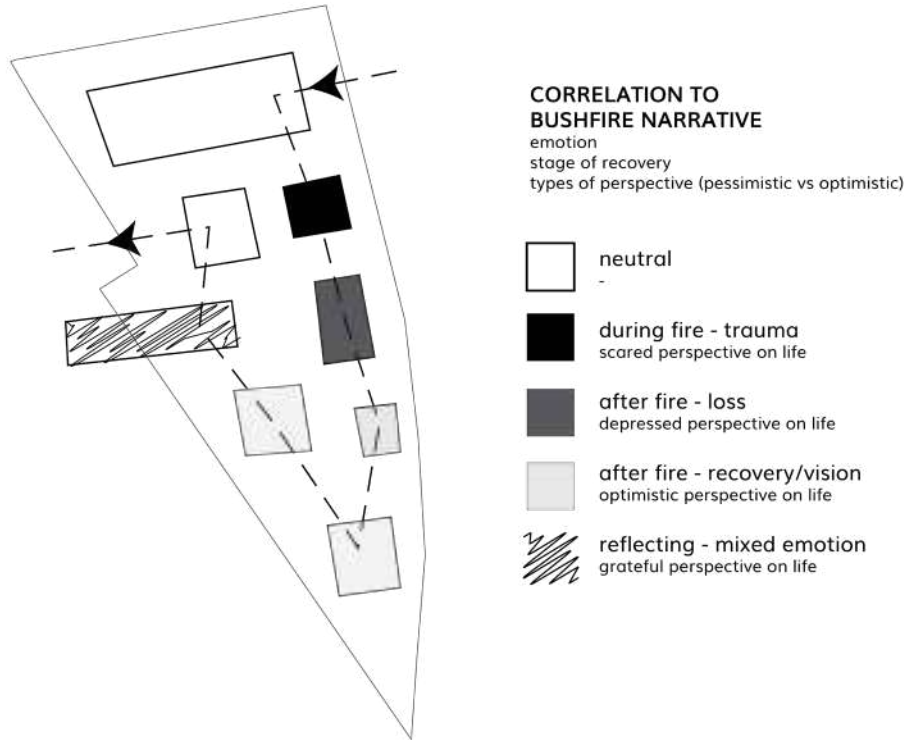


### THE JOURNEY

The journey starts before the museum, taking the visitor through key historical and cultural moments such as the tea house and gums cottage, allowing them to take in the surroundings as they are before entering the museum.

After exiting the museum, the visitor is guided towards the rest of the site, in direction of the lodge, to explore Binna Burra's nature and re-gain a positive outlook after the museum.

### THE MUSEUM EXPERIENCE





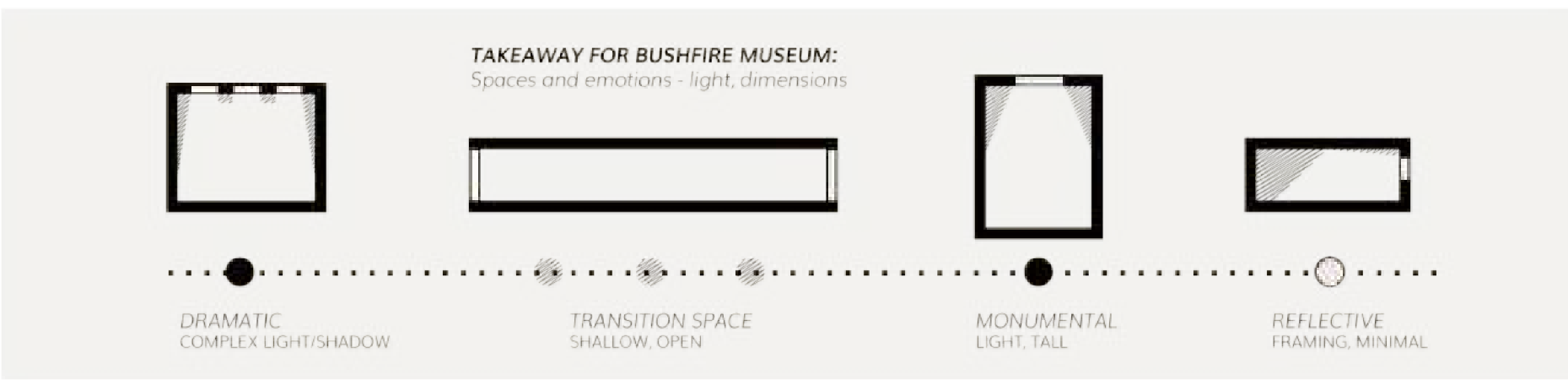
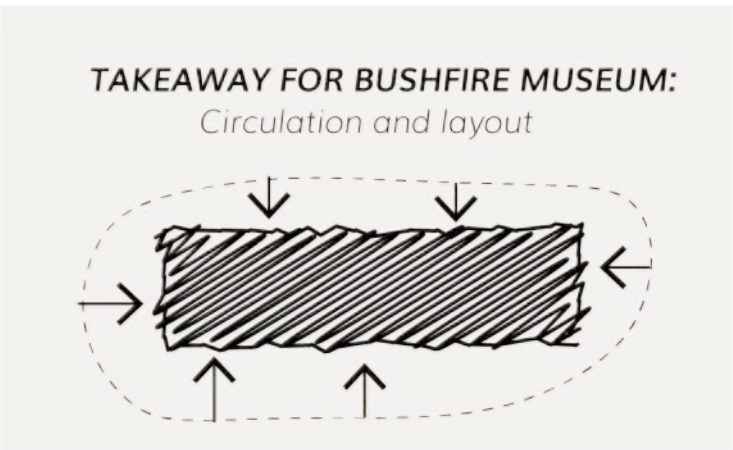
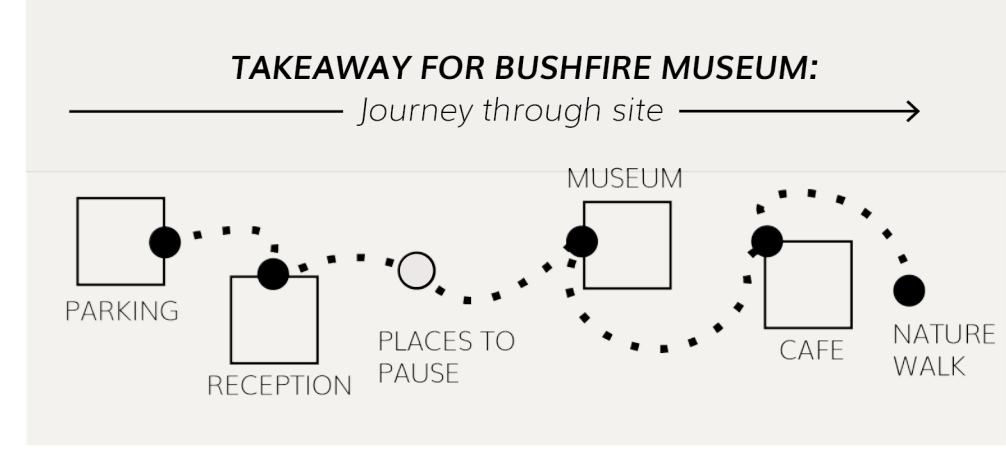
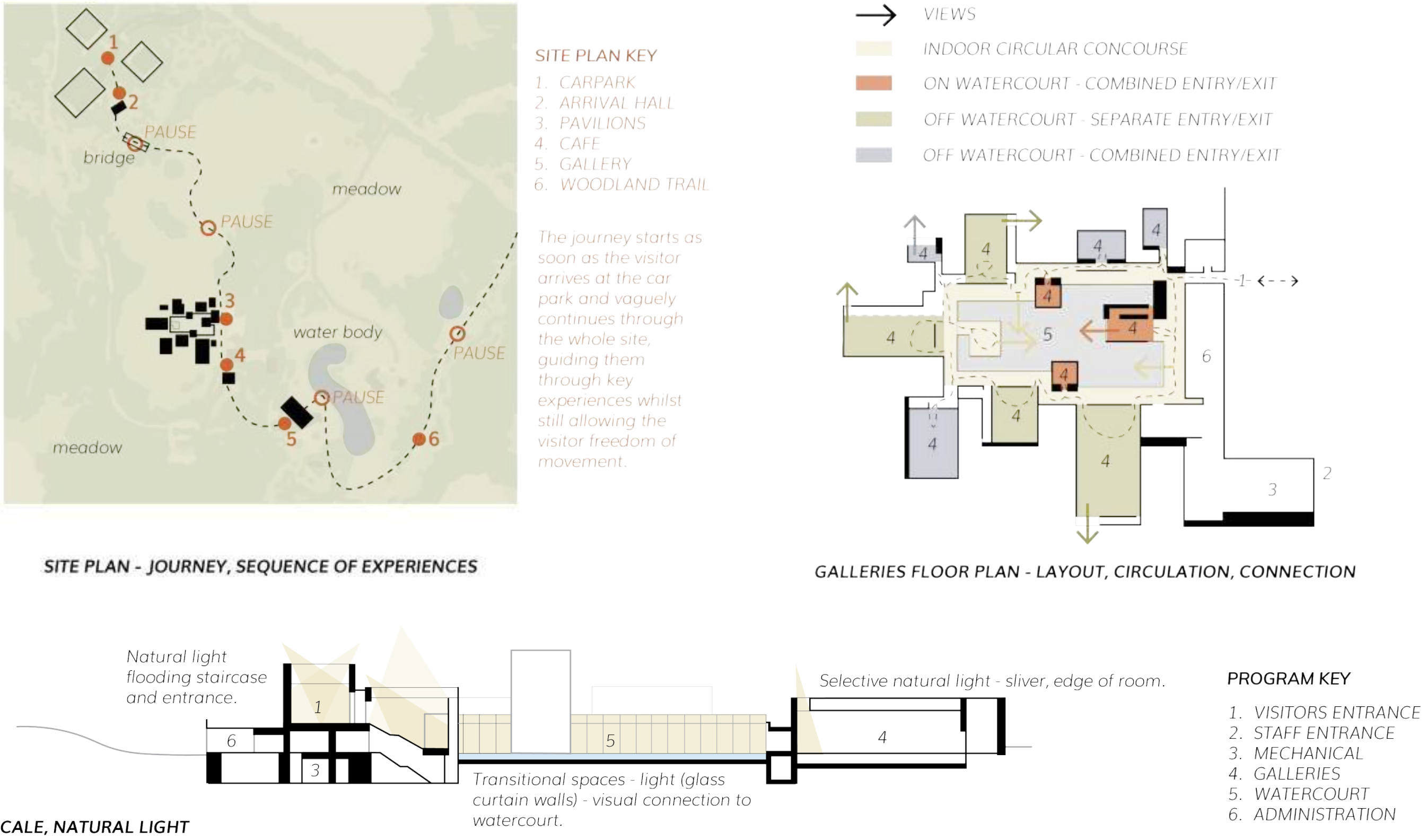
PRECEDENT 01:

Glenstone Museum Pavilions

**Architect:** Thomas Phifer & Partners  
**When:** 2018  
**Where:** Maryland, USA  
**Program:** Post World War II Museum  
**Takeaways:** Concept, design principles, journey



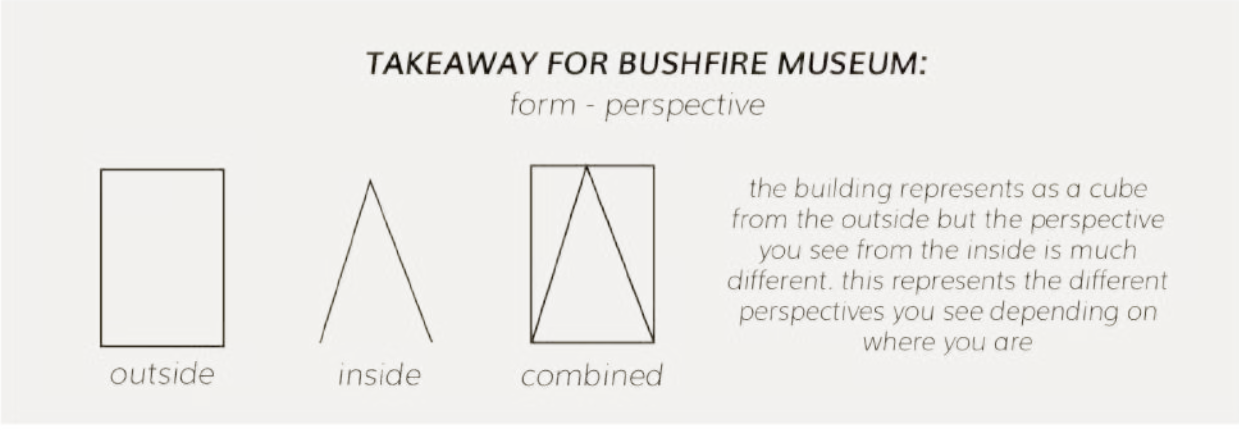
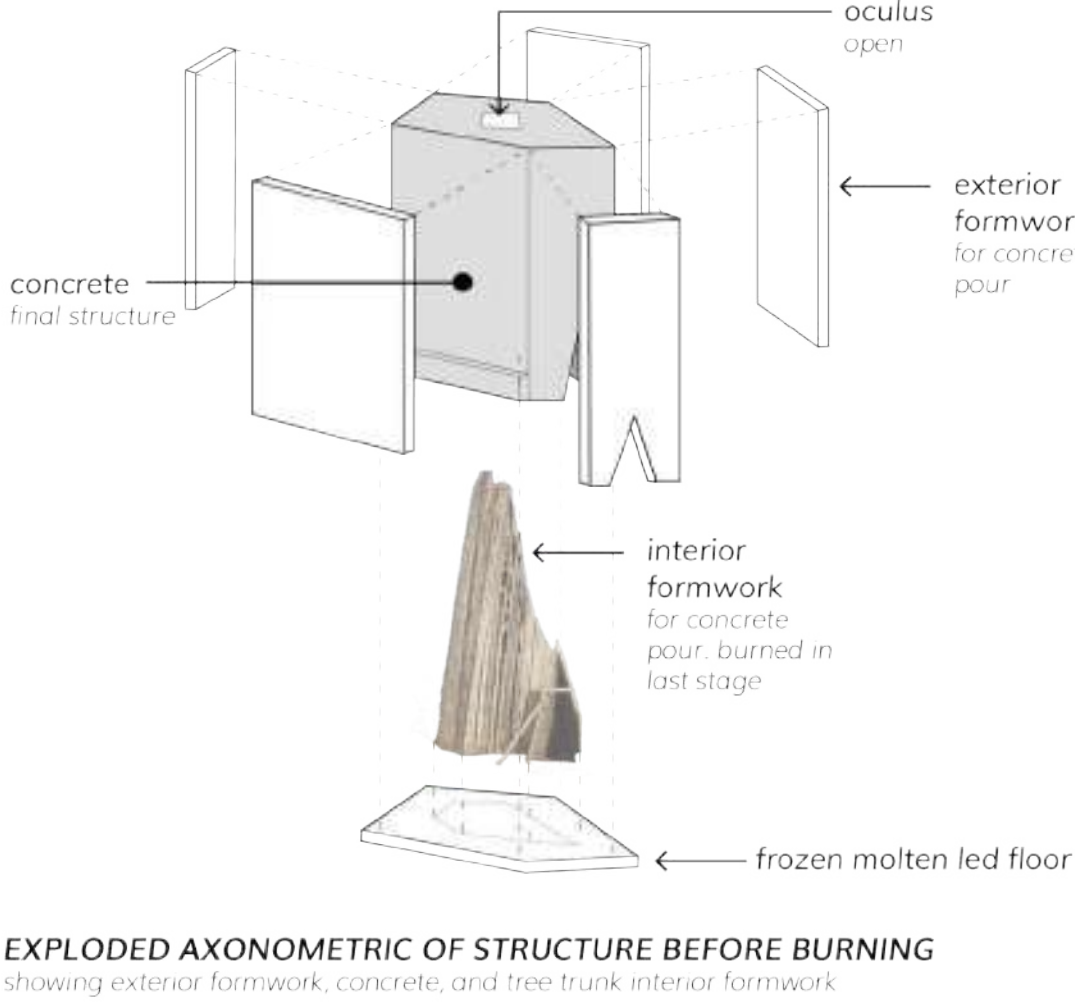
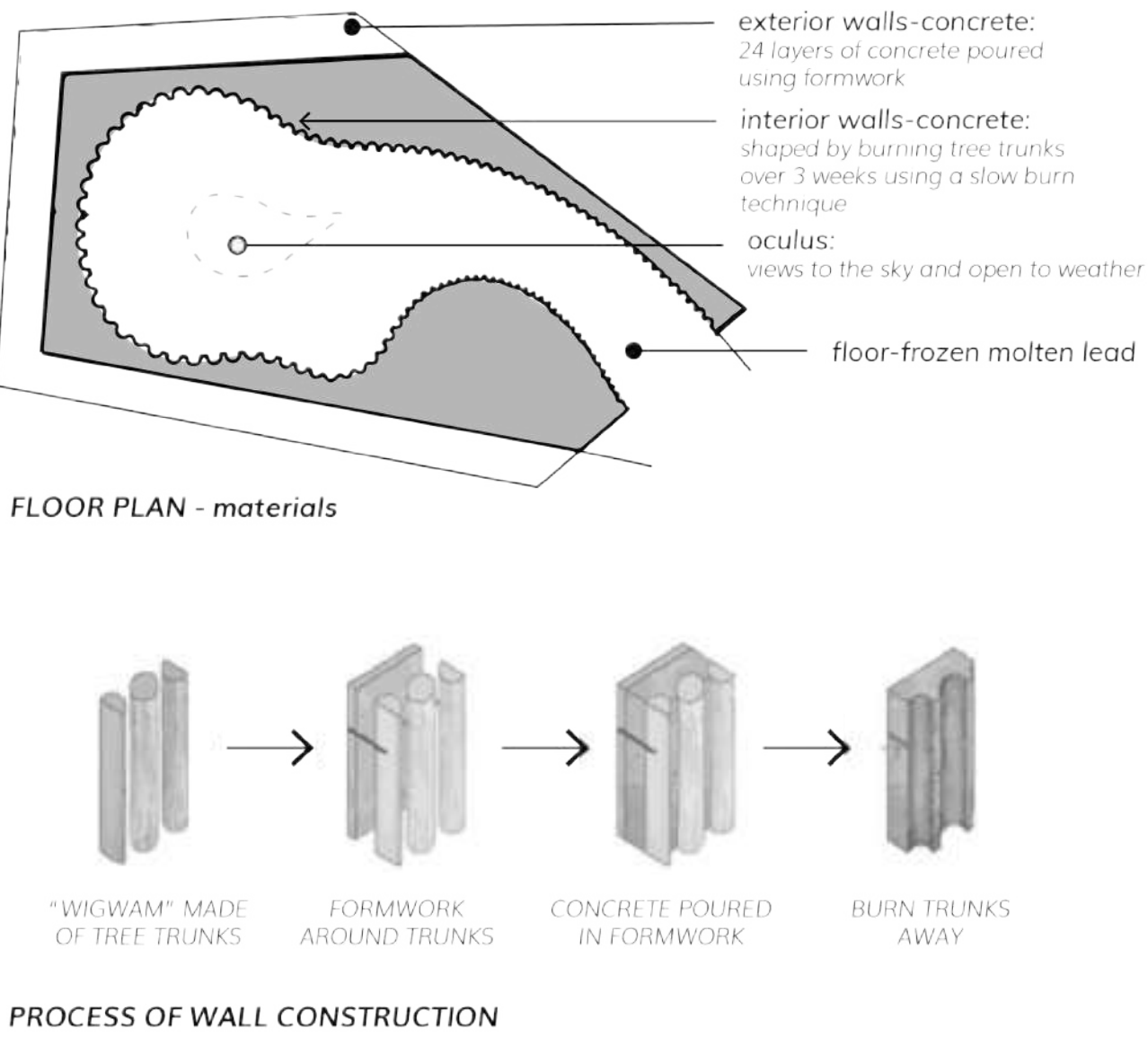
View to Glenstone Pavilions capturing the journey



PRECEDENT 02:

Bruder Klaus Field Chapel

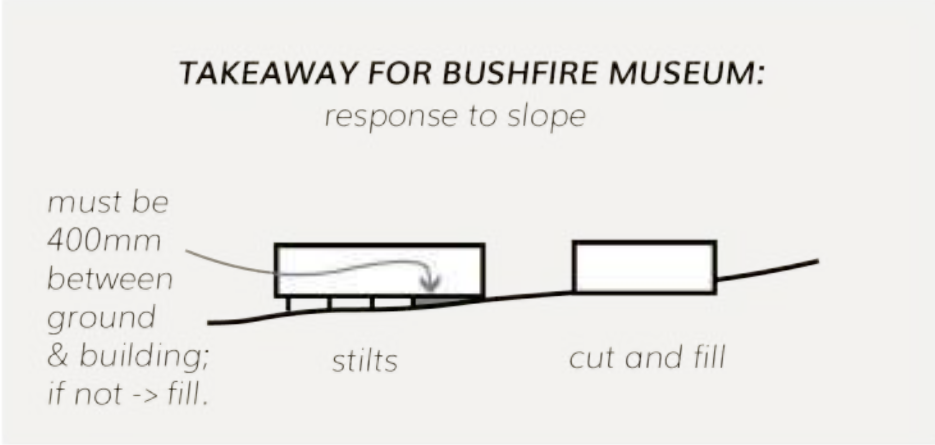
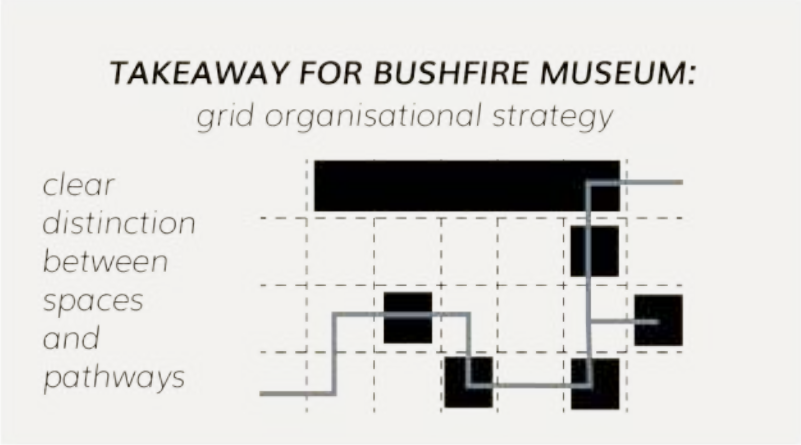
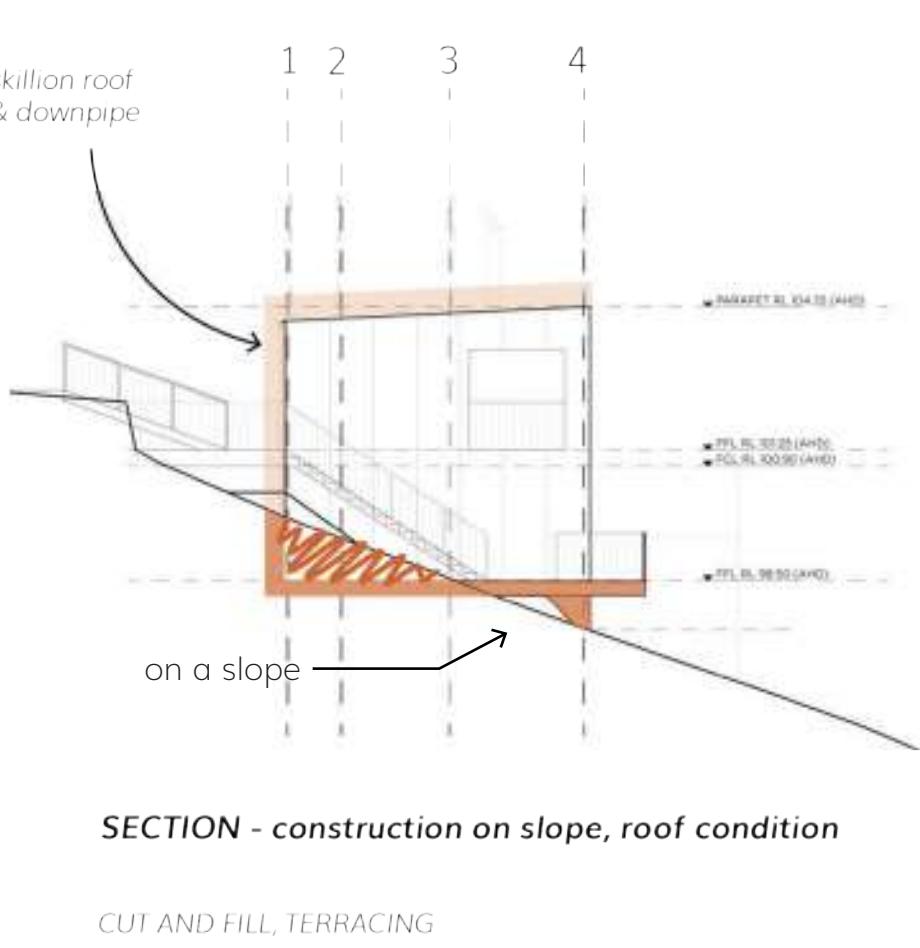
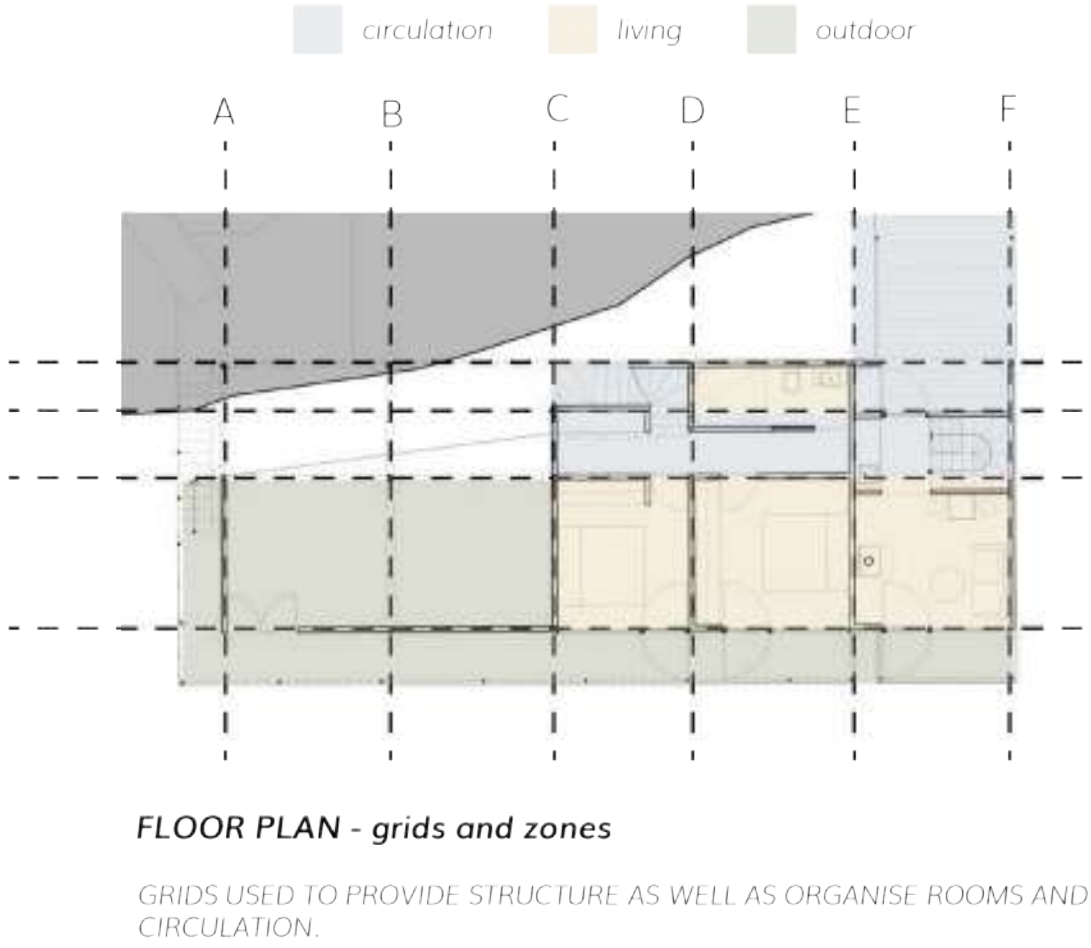
**Architect:** Peter Zumthor  
**When:** 2008  
**Where:** Mechernich, Germany  
**Program:** Chapel/memorial  
**Takeaways:** Structure, construction, storytelling



PRECEDENT 03:

Wye River House

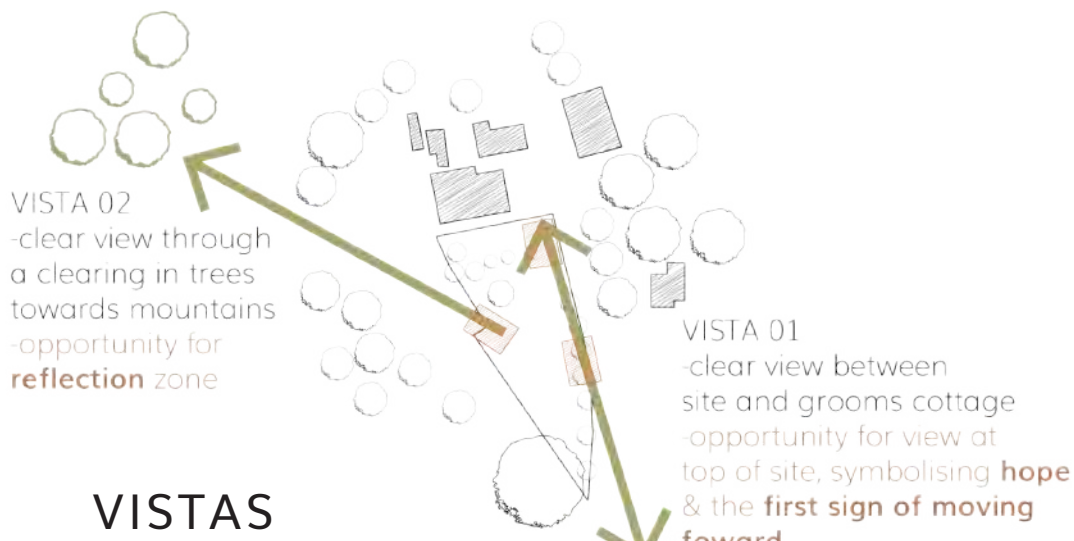
**Architect:** MGAO  
**When:** 2020  
**Where:** Wye River, Victoria, Aus  
**Program:** Residential  
**Takeaways:** Construction, materials, grids



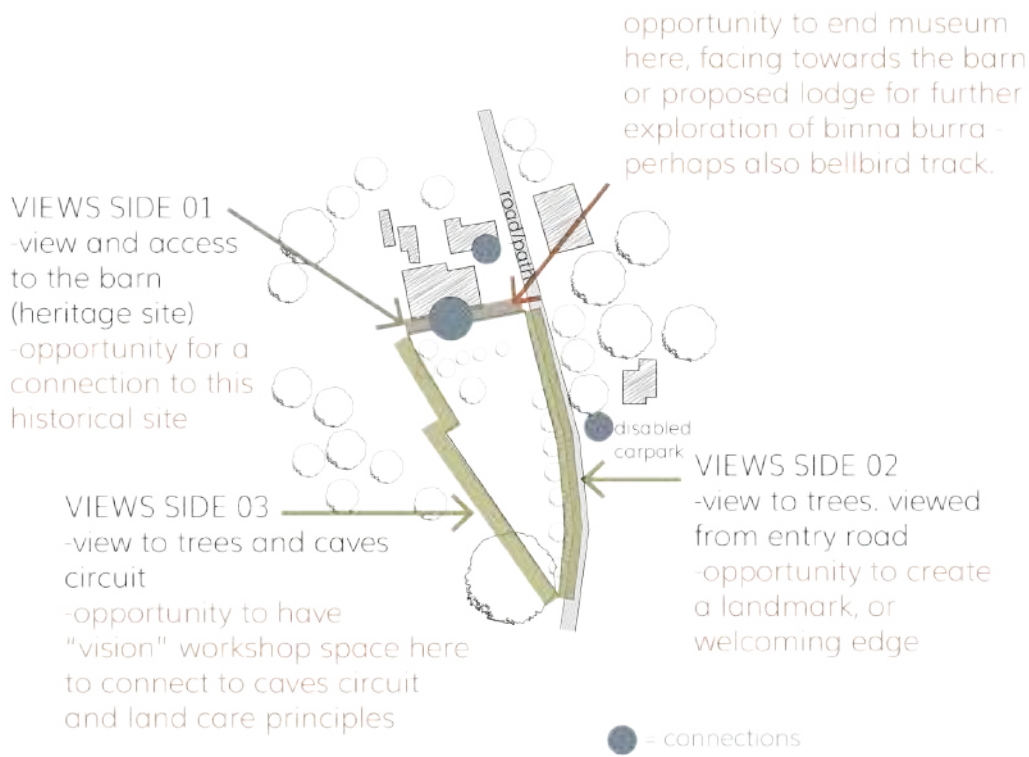


VIEWS, VISTAS, EDGES & CONNECTIONS - site analysis

VIEWS

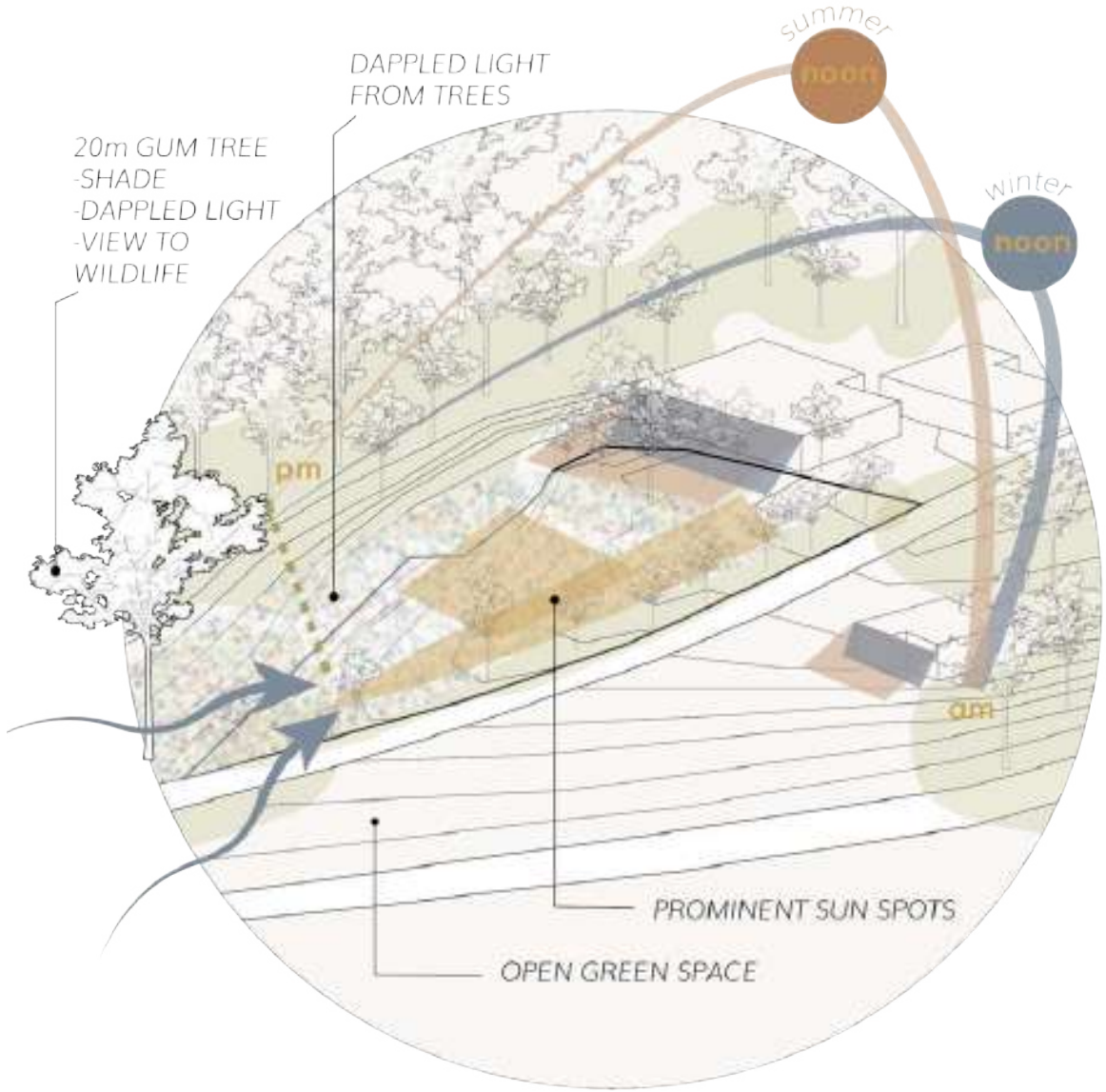


EDGES & CONNECTIONS (visually/physically)

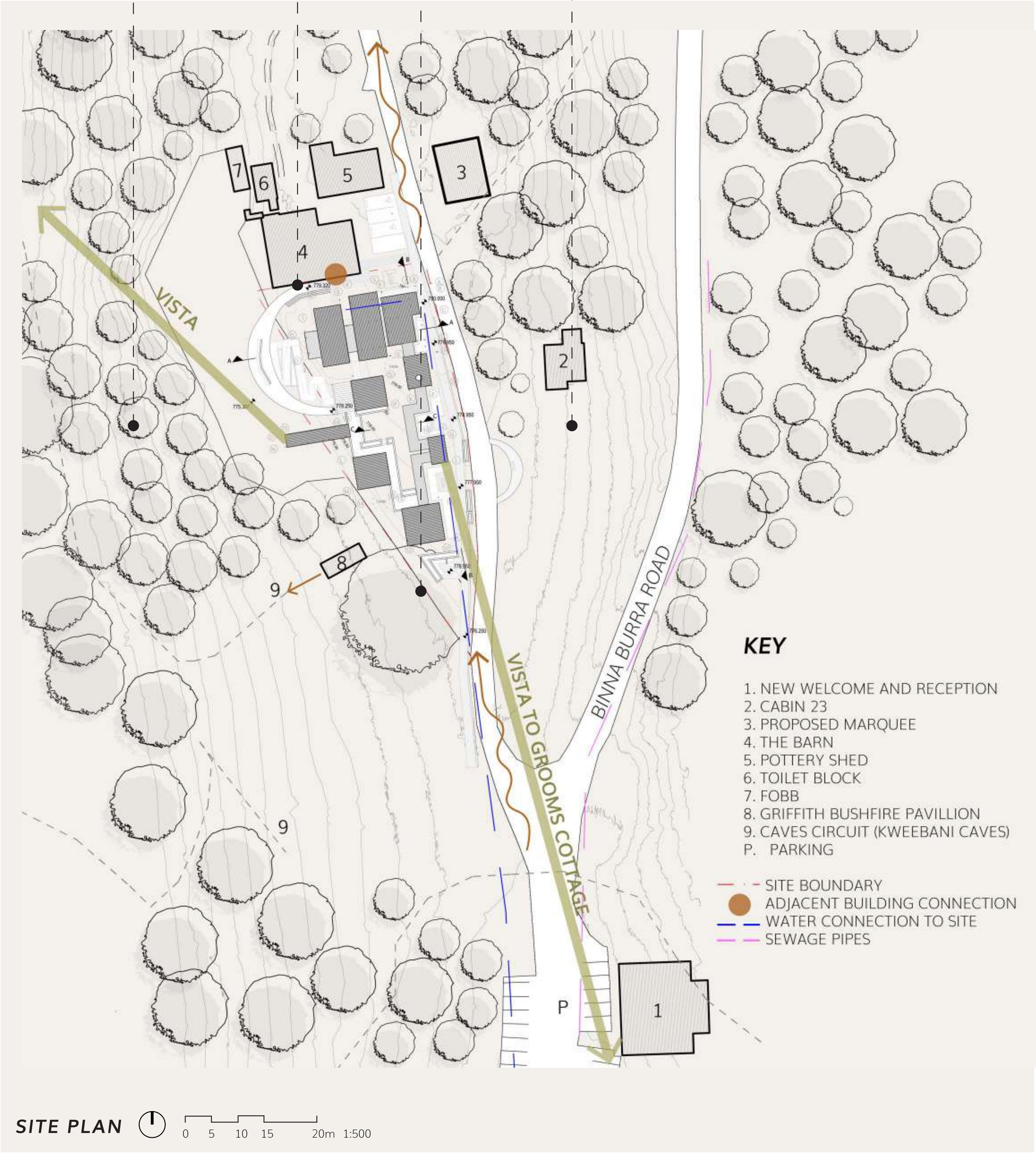


CLIMATE ANALYSIS - site analysis

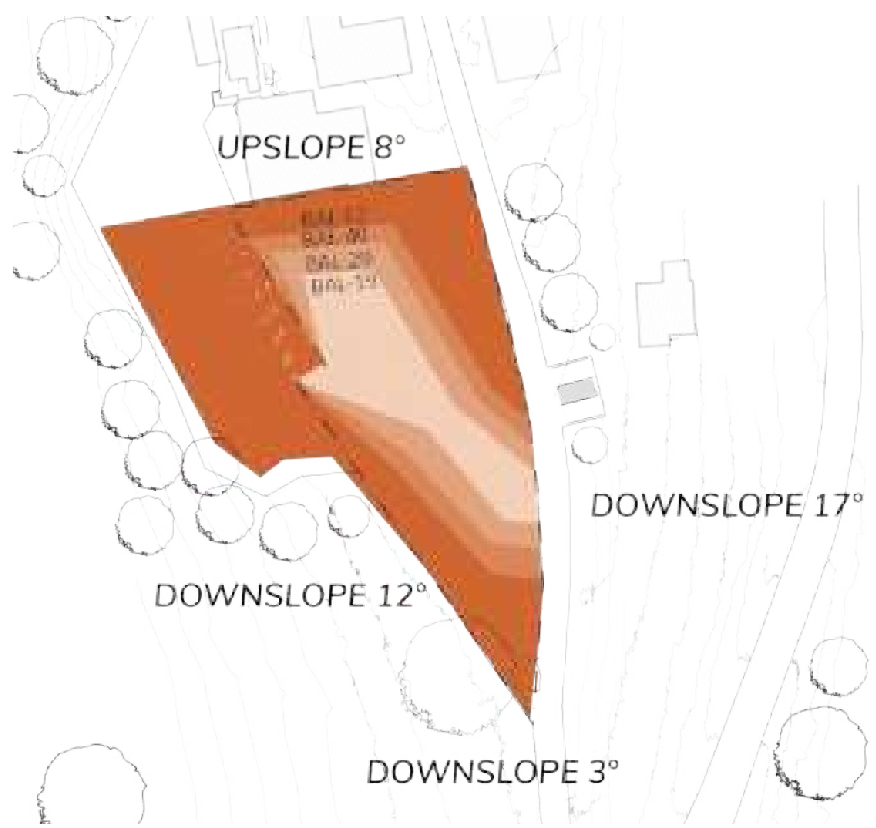
SUN, SHADE & WIND



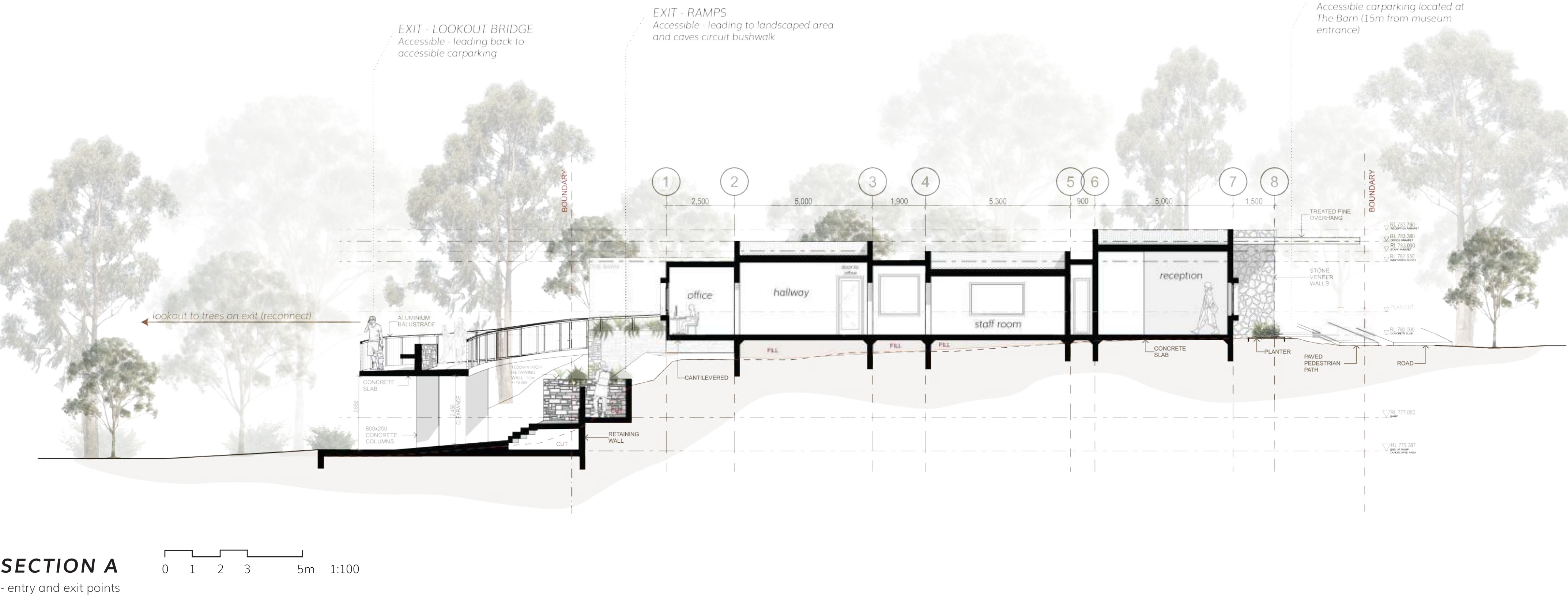
OPPORTUNITY TO USE SUN SPOTS TO CREATE COURTYARDS, AND PLAY WITH DAPPLED LIGHT TO SYMBOLISE THE REGENERATION OF THE RAINFOREST, EVOKING A FEELING OF HOPE, JOY, AND APPRICIATION.



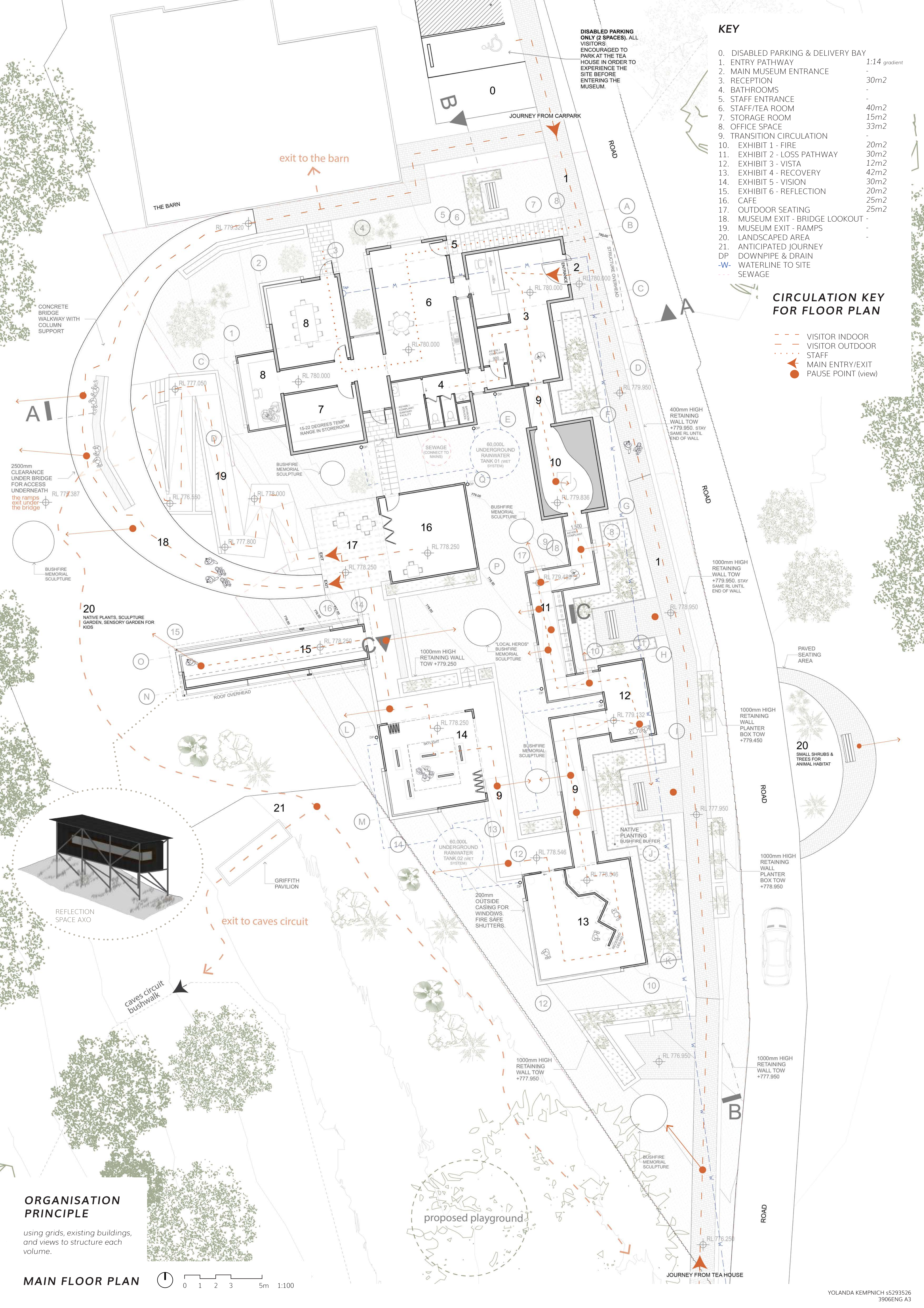
BAL RATING



To enhance the effectiveness of the concept of perspective and vista, the center of the site has been designed as a courtyard - hence BAL-19 to safely include vegetation. This has been achieved through removing trees around the perimeter of the site and near the barn. All removed trees will be relocated within Binna Burra Lodge.







KEY

- 0. DISABLED PARKING & DELIVERY BAY
- 1. ENTRY PATHWAY 1:14 gradient
- 2. MAIN MUSEUM ENTRANCE
- 3. RECEPTION 30m2
- 4. BATHROOMS
- 5. STAFF ENTRANCE
- 6. STAFF/TEA ROOM 40m2
- 7. STORAGE ROOM 15m2
- 8. OFFICE SPACE 33m2
- 9. TRANSITION CIRCULATION
- 10. EXHIBIT 1 - FIRE 20m2
- 11. EXHIBIT 2 - LOSS PATHWAY 30m2
- 12. EXHIBIT 3 - VISTA 12m2
- 13. EXHIBIT 4 - RECOVERY 42m2
- 14. EXHIBIT 5 - VISION 30m2
- 15. EXHIBIT 6 - REFLECTION 20m2
- 16. CAFE 25m2
- 17. OUTDOOR SEATING 25m2
- 18. MUSEUM EXIT - BRIDGE LOOKOUT
- 19. MUSEUM EXIT - RAMPS
- 20. LANDSCAPED AREA
- 21. ANTICIPATED JOURNEY DOWNPIPE & DRAIN
- DP DOWNPIPE & DRAIN
- W- WATERLINE TO SITE
- S- SEWAGE

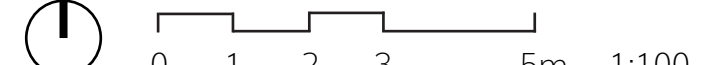
CIRCULATION KEY FOR FLOOR PLAN

- - - VISITOR INDOOR
- - - VISITOR OUTDOOR
- ... STAFF
- ▶ MAIN ENTRY/EXIT
- PAUSE POINT (view)

ORGANISATION PRINCIPLE

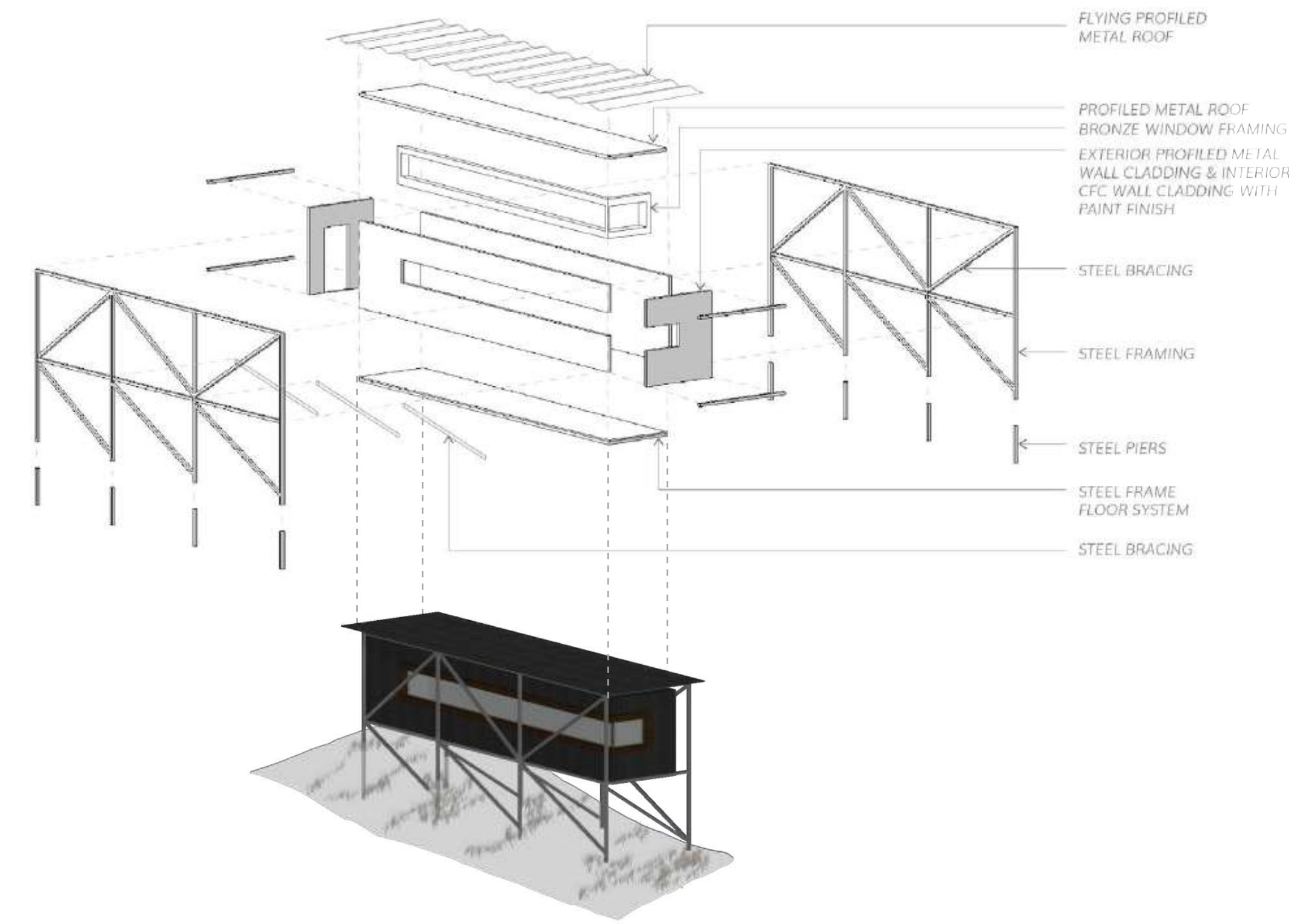
using grids, existing buildings, and views to structure each volume.

MAIN FLOOR PLAN

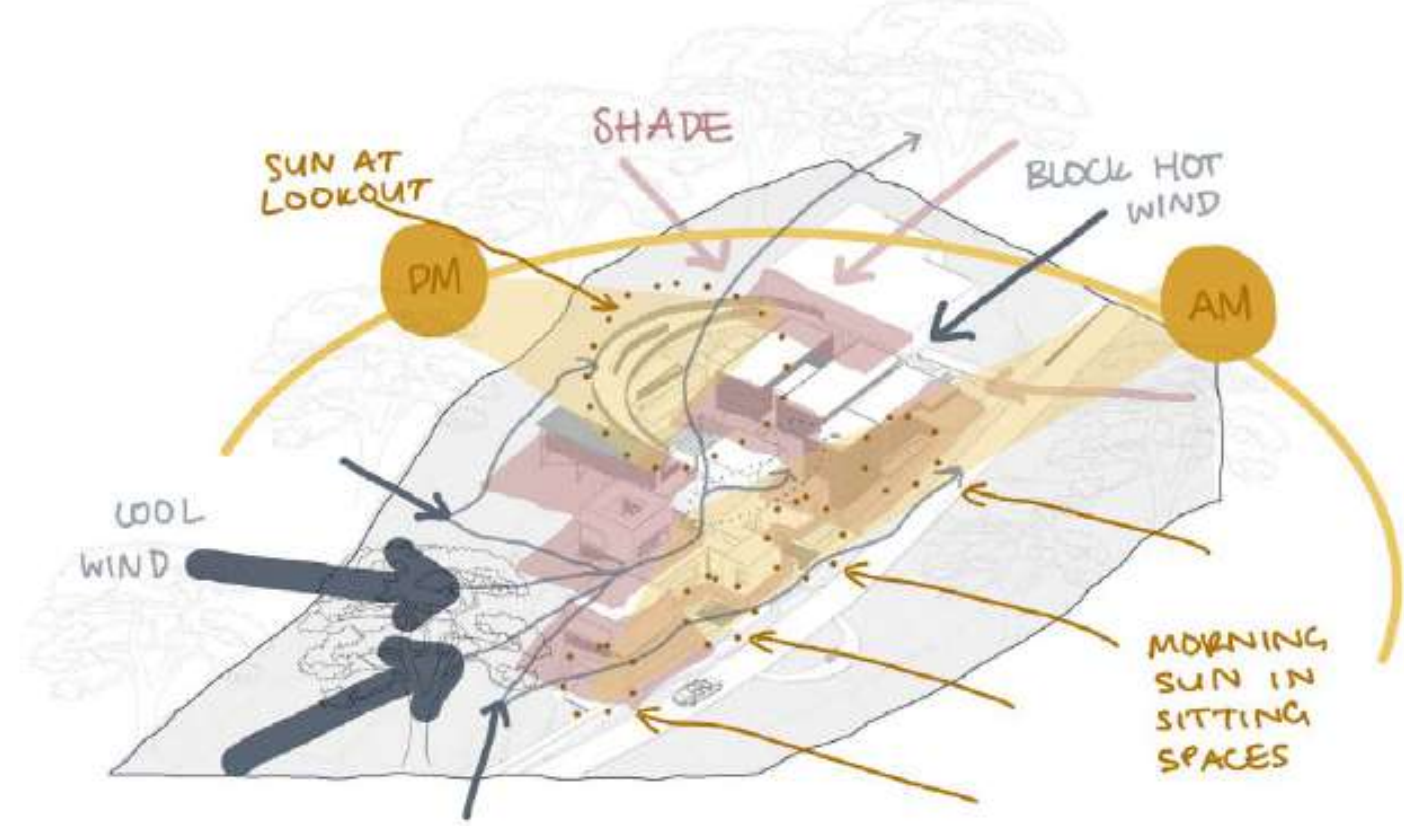




REFLECTION EXHIBITION  
EXPLODED AXONOMETRIC



PASSIVE DESIGN  
CLIMATE ANALYSIS AND SPATIAL ARRANGEMENT

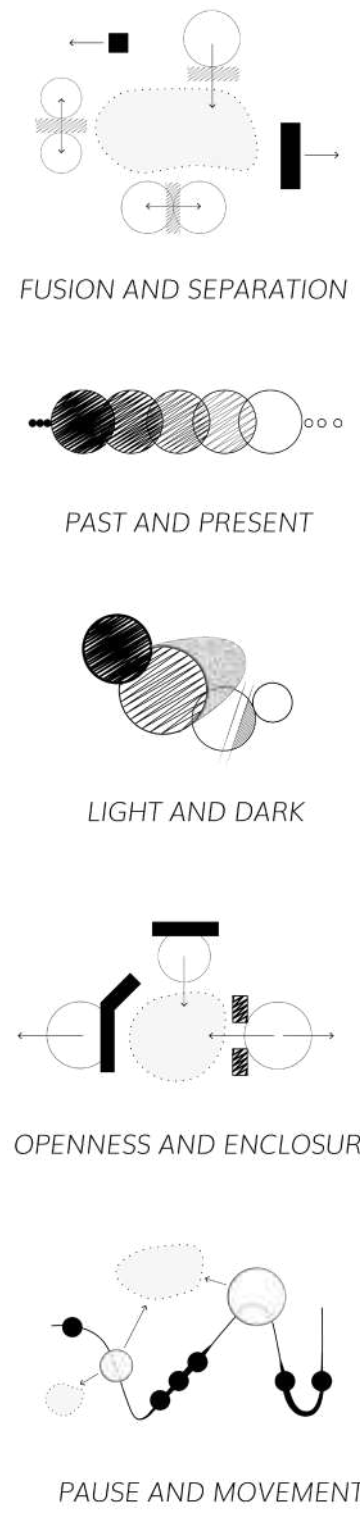


**SUN:** Morning sun enters the pockets of seating spaces on the eastern side, creating "private" places to sit in the morning before a bushwalk, or waiting for friends before the museum. The lookout/exit path captures the mid/afternoon sun as a relaxing finish to the museum experience.

**SHADE:** Shade is created along the entrance path to provide visitors with a comfortable place to wait out of the hot sun.

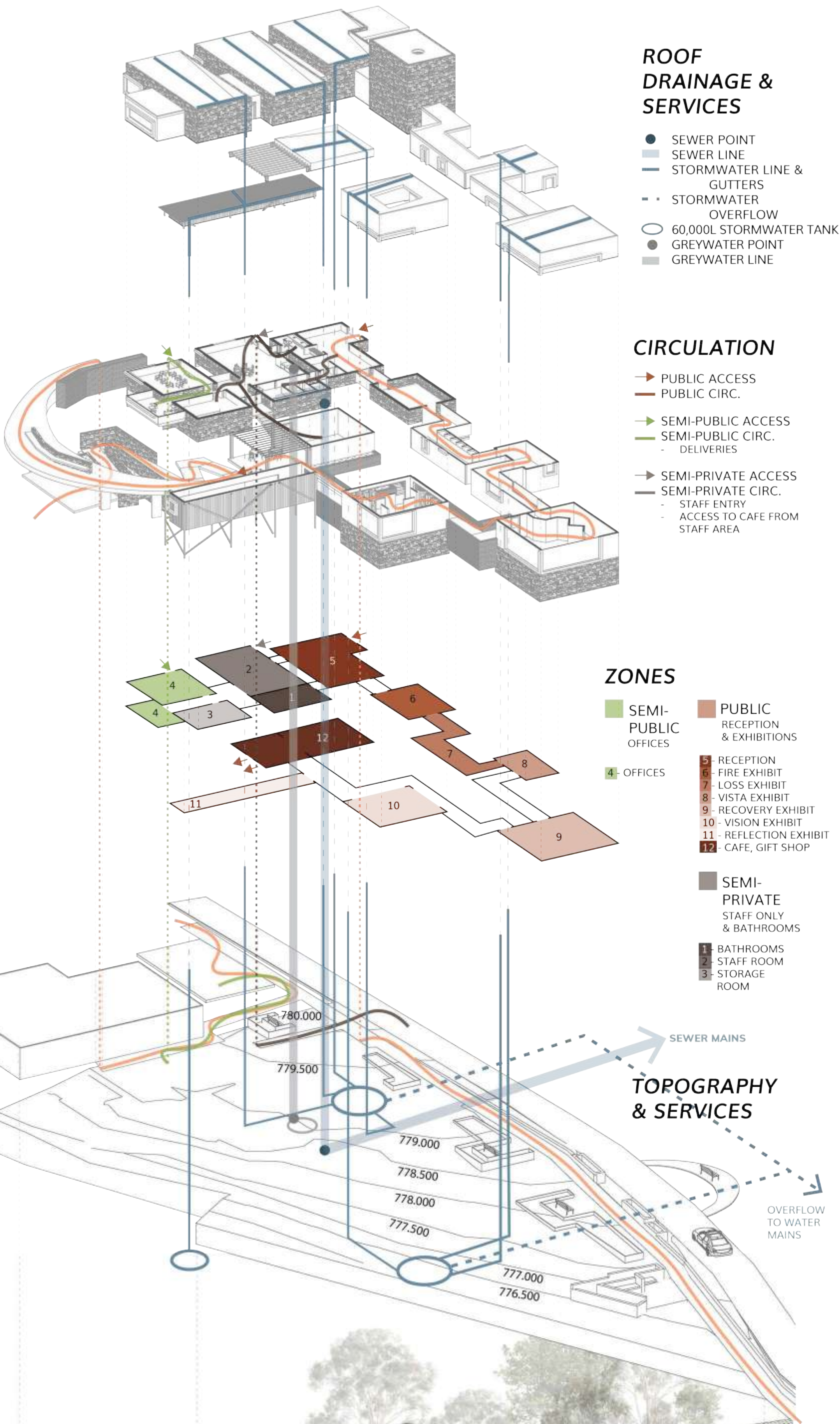
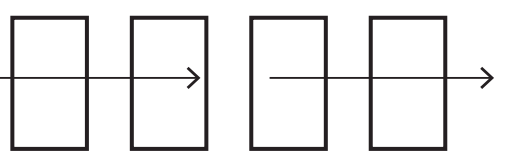
**WIND:** Openings on the southern end of the site allow passive ventilation and cooling through the courtyard and outdoor spaces (cafe, lookout).

DESIGN PRINCIPLES



CIRCULATION:  
LINEAR CHAINING

linear pathways used to guide visitors through a specific sequence of events to evoke emotion and tell a unique and purposeful narrative.



GENERAL SITE AXO






1. EXTERIOR JOURNEY PERSPECTIVE - VIEW FROM THE PATHWAY TO THE MUSEUM


PROPOSED MATERIALS

REFERRING TO WYE RIVER HOUSE & ROSEDALE BEACH HOUSE PRECEDENT STUDIES, AS3959, & BAL RATING REQUIREMENTS - all are non-combustable/fire treated


BUILDINGS



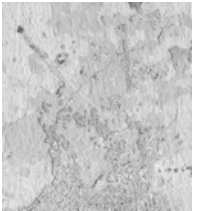
STONE  
- feature building material



PROFILED STEEL  
- roofing  
- structure



FIBRE CEMENT CLADDING  
- lightweight exterior cladding



CONCRETE  
- footings  
- slabs

OPENINGS - WINDOWS & DOORS



BRONZE  
- window frames/casings



STEEL DOOR FRAMES  
(including fixings)  
- min. 1 hour fire rating



GLASS (fixed)  
- toughened (BAL-29) or fire rated safety glass (BAL-40 & BAL-FZ)  
- min. 6mm thick

WAYFINDING - SIGNAGE & PATHWAYS



TREATED PINE (BAL-40)  
- signage  
- interiors  
- entrance

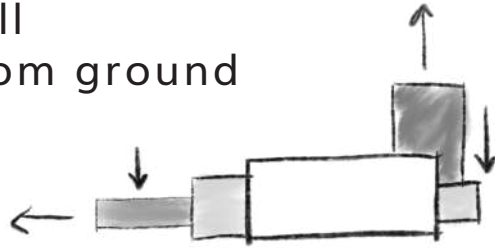


STONE  
- pathways  
- retaining walls



BRICK  
- pathways  
- retaining walls

volumes from a distance  
- push and pull  
- extruding from ground



PRECEDENT 04:

Rosedale Beach House

Architect: Thomas Caddaye Architects

PROOF OF EFFECTIVENESS OF MATERIALS:

This house also uses FC cladding, steel framework/piers, and metal roofing and survived a bushfire with minimal damage.



Steel piers responding to the slope.



2. EXTERIOR JOURNEY PERSPECTIVE



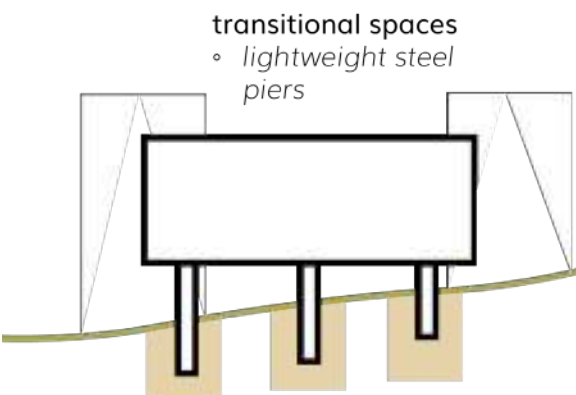
3. EXTERIOR JOURNEY PERSPECTIVE



4. RECEPTION PERSPECTIVE




5. EXIT PERSPECTIVE - THE LOOKOUT



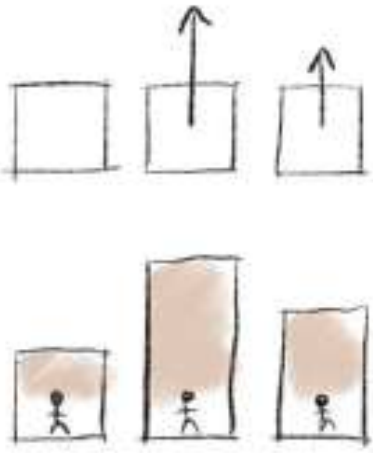
transitional spaces  
• lightweight steel piers

**footings (transitional spaces)**  
- light steel piers



exhibition spaces  
• heavier footings construction ("emerging from ground")

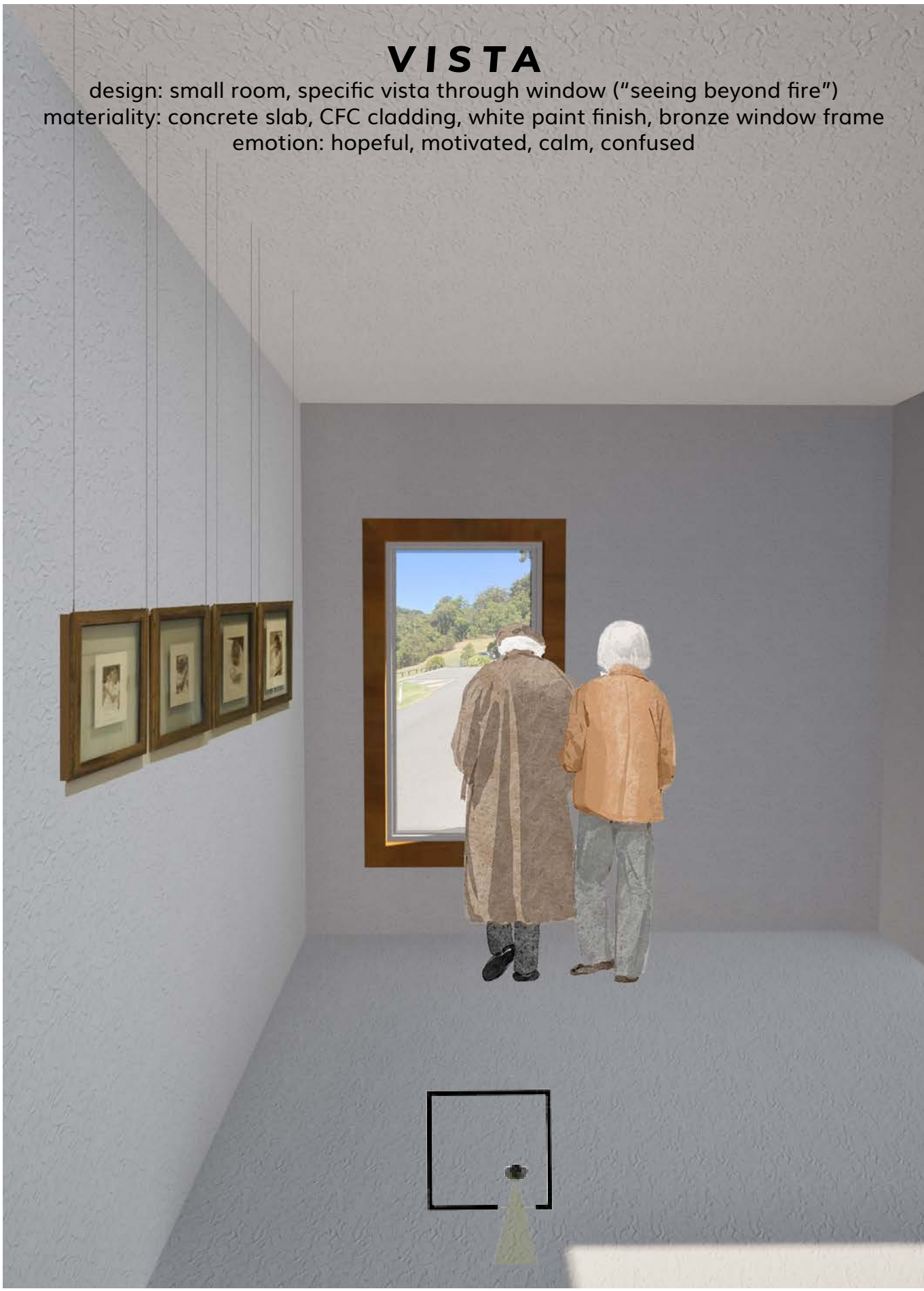
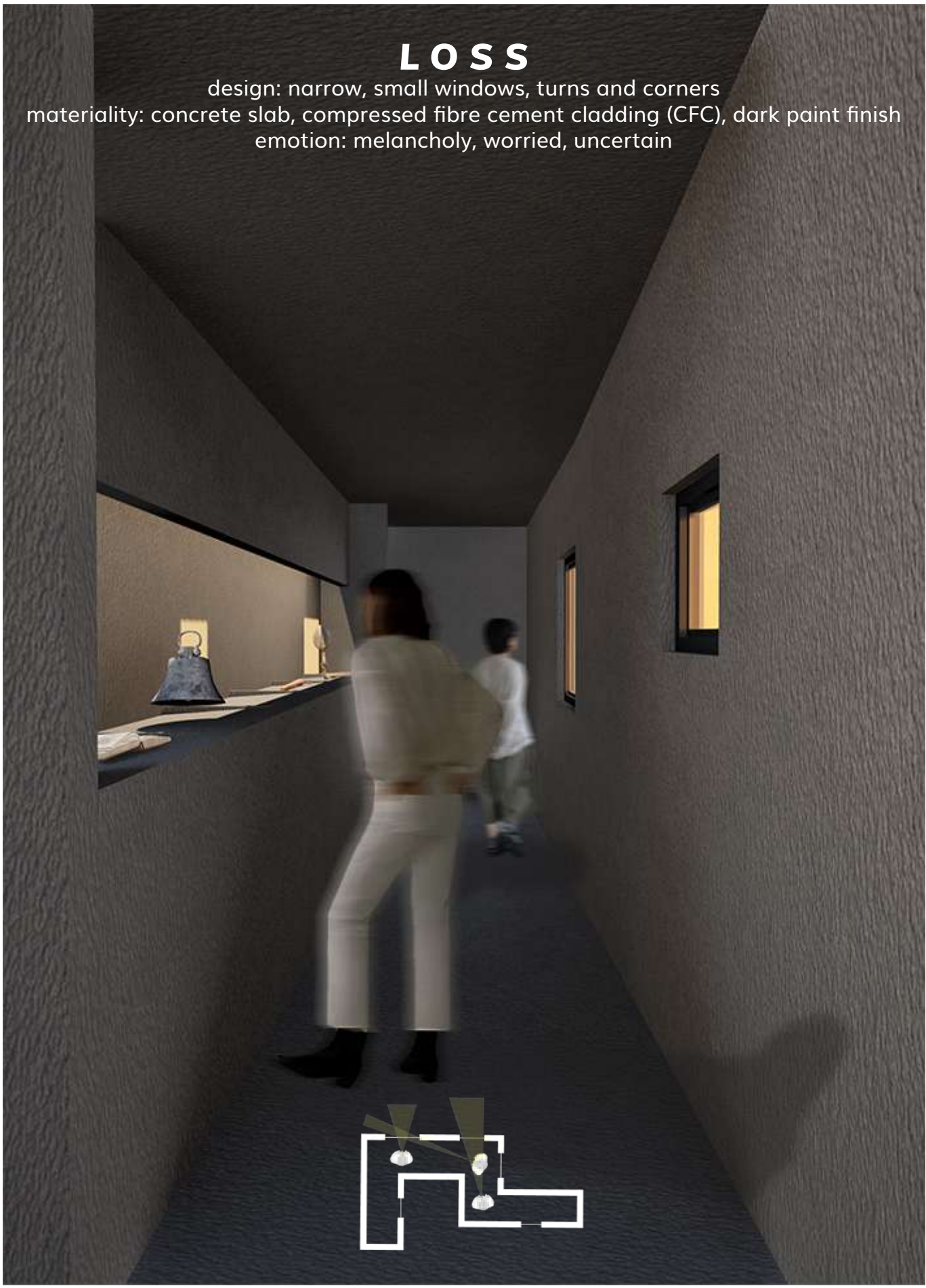
**footings (exhibition spaces and reception volumes)**  
- heavy concrete footings



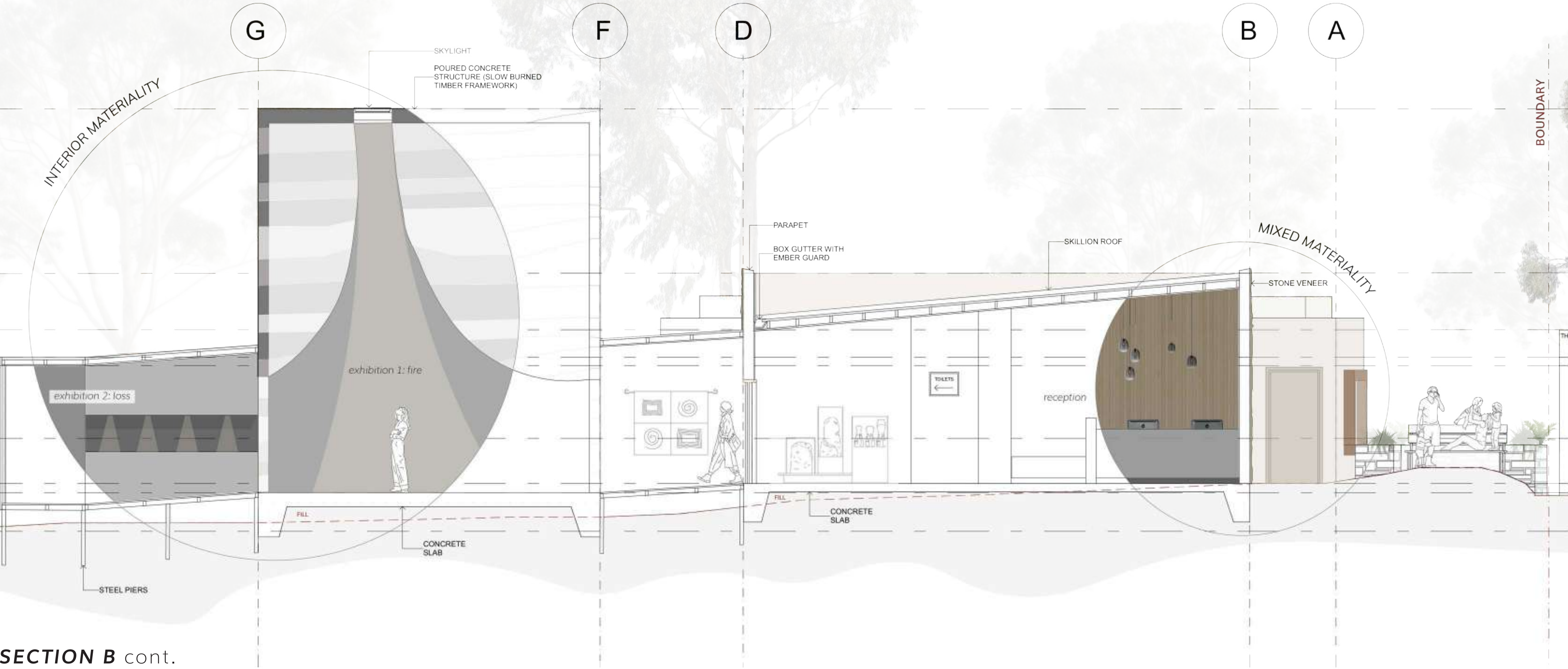
volume heights  
- push and pull



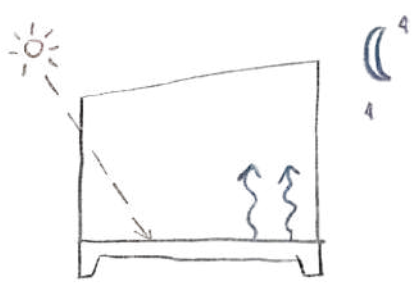




THE MUSEUM JOURNEY - INTERIOR PERSPECTIVES



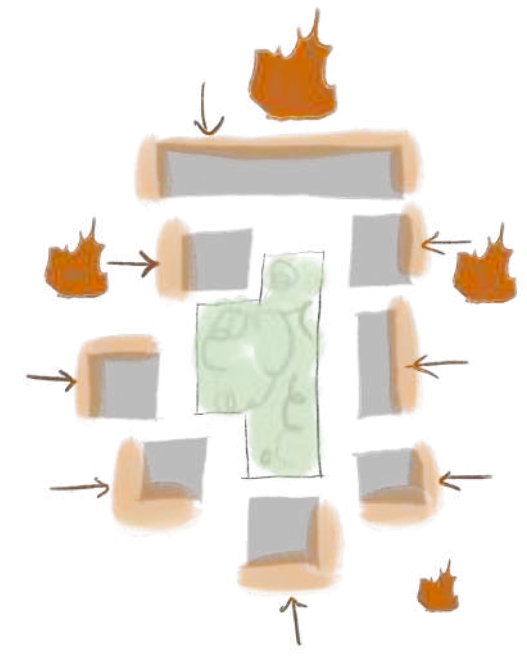
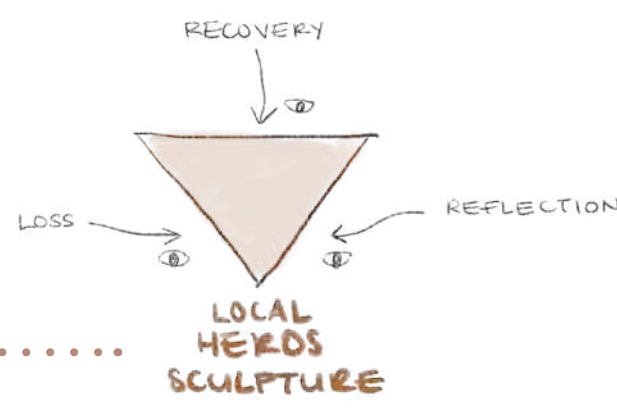
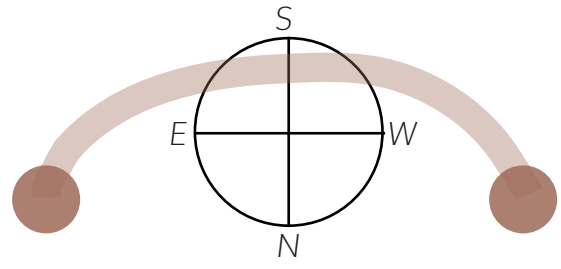




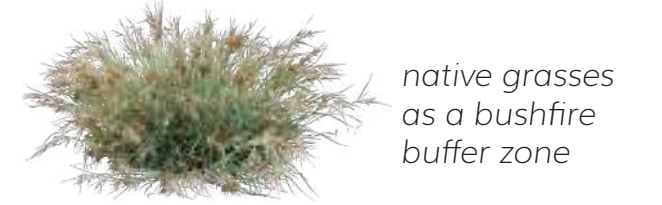
HEAT STORE  
★ RELEASE

**thermal mass**  
**(concrete slabs)**  
- thermal efficiency  
- passive design

This exhibition space **absorbs the morning sun as it faces east.**  
Throughout the day, this initial sun will passively heat the room.



**fire protection & vegetation**  
- the courtyard is achievable  
as it's within a BAL-19 zone,  
surrounded by buildings made  
of non-combustible materials.

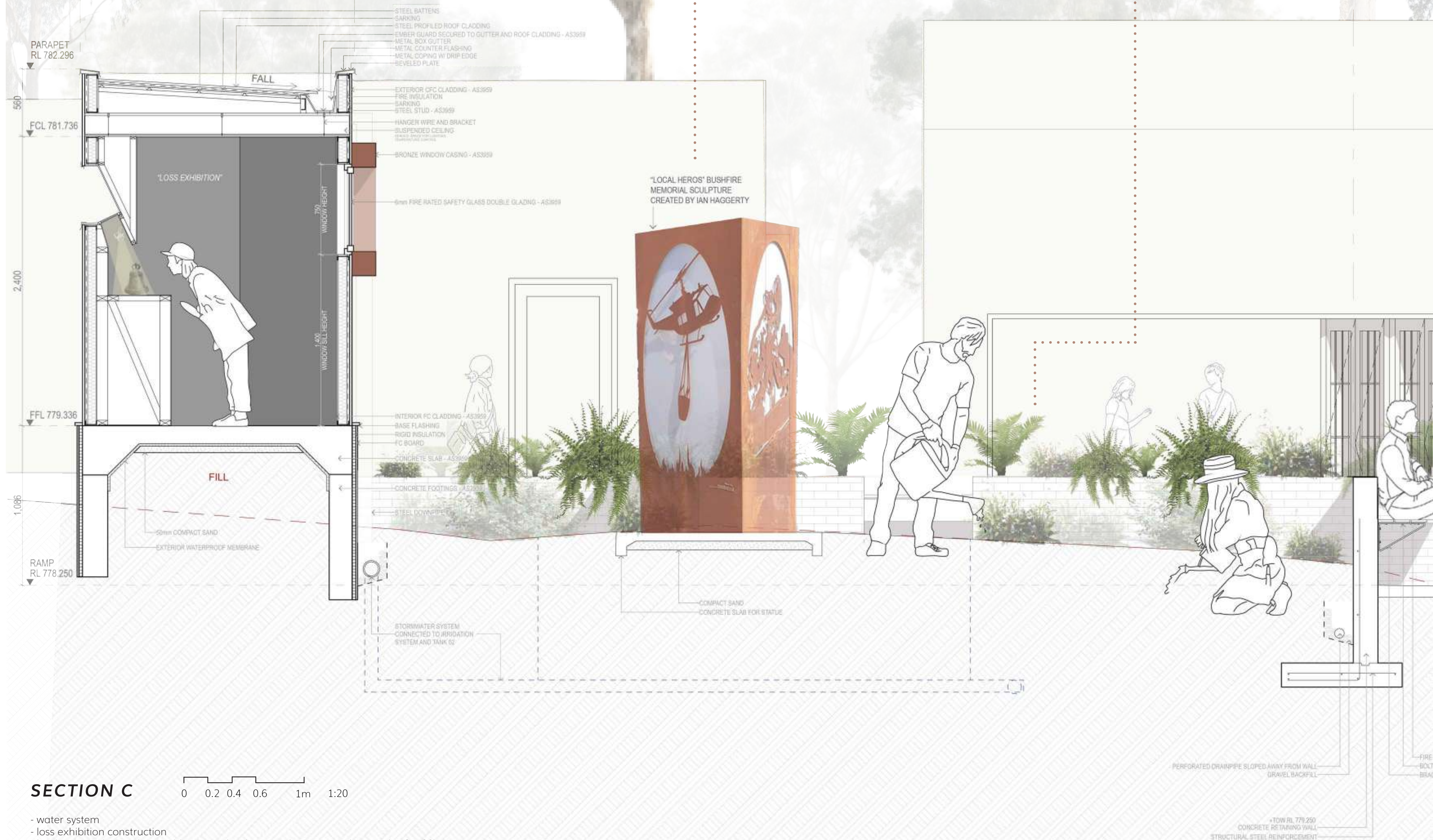


native grasses  
as a bushfire  
buffer zone

pioneer species such as  
the beech tree (to grow  
after a bushfire)



small plants/  
bushes,  
encouraging  
ecosystems



## SECTION C

0 0.2 0.4 0.6 1m 1:20

- water system
- loss exhibition construction
- levels across the site (accessible ramps, landings, and turns complying with AS1428)
- courtyard and planting
- shift in emotion (from dark, enclosed loss space to recovery and bright outdoor areas)
- compliance with AS3959 (ember guards, non-combustable materials)