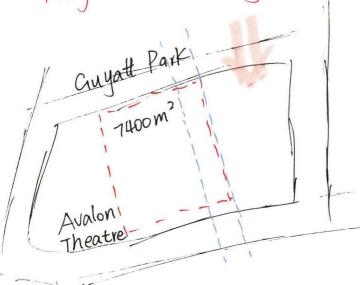
BHC = affordable housing support communities and residents

Design on Country



- 1. Flood mitigation
- 2. Build to rent (material, detail ...)
- 3. Avalon Theatre (Connection)
- 4. Vehicles (1.5 m landscape separation)
- 5. Access (connect Guyatt park)

- 90-120 affordable units
 - 1 bm. 2 bm. 3 bm rental

Lecture: Unaffordability

Homelessness

urban diagramming 1:1000

Site plan 1:500

Basement plan 1:200

Ground floor plan 1:200

3D block plan 1:200

PC18

- 1. Unaffordability
 - . Rising Property Prises and Rent \$ M
 - · Income Disparity (Income level unbalance)
- 2. Homelessness
 - · Competitive Rental Market (local and overseas investors)
 - · Poverty and Homelessness (Economic unemployment. family issues)
 - 3. Solutions
 - · Social Housing Programs (Financial aids)
 - · Housing Assistance
 - · Homeless Support Services (Shelters, employment...)

Density & Piversity Lecture

- 1. Sustainable Development and Eco-friendly Design comaterial, energy efficiency, waste manament
- Z. High Density Urban Planning Vertical construction mix-use developments
- 3. Multifunctional Building Design commercial. residential. recreational
- 4. Community Engagement => Needs and Expectations
- 5. Accessibity and Public Transport.

 Walk. cycling. public transport.
- 6. Cultural and Historical Preservation harmonize and respect

Caroline Lecture

Peddle Thorp

175000 Houshold on wait list

436000 Social Housing Dwellings

Tips: Trees can block the flood Bedroom with natural light

keep cost down

care older generation ventilation but satty (firedoors)

Llewellyn Lecture

The Urban Compression Model

- 1. Commody Market
- 2. largely developer driven
- 3. Overseas investors
- 4. no consideration

The Urban Sprawl Model

Dosign Strategy

Sun & Venti East-West

Access sparation of vehicles and pedestrian

Layering of privacy => Floorplan

12175

Homeless

People

PC18

15-meter walk to col community gardening

Urban Interpretation of affordable housing Lecture

Urban Iransport Morphology 1850 - 1885 Traditional Walking Ct 1885 — 1969 Transit City 1950 - 2000 Automobile City 2001 - present Transit Awave Automobile City

GABBA Example Development Area Initiatives and Future Planning

(Urban Tissne Analysis 1 Economic context Movement & Access Below Ground Built Form Illustrative Structure Plan

Norman Creek Catchment Subtropical Design In SEQL JEAYS ST Bowen Hills Affordable Housing Traffic Engineering Elements Lecture

Access

- · Road Hirerachy
- · Access Location
- · Access Design

Parking

- · Car Parking
- · Shared Parking
- . Relaxations
- · Cycle Parking

Servicing

- . Types
- · Numbers
- · Design Docks
- · Refuse Requirements

Multiple Dwellings

0.9 spaces per 1 bed

Sustainable precinct design: medium density housing Lecture.

Regenerative

1. Planet urban Overleys

2. people

3. place Framework of Fixes

sciences Design Creativity

Resilieity Sustainability

Outdoor Thermal Comfort Urban Heat Island

Risk, Resilience, Adoptation

Carbon / Mobility / Natural-

Basedsolutions/ water

Precinct Design

< North Shading Breathe Building Sustainable building

Nightingale Housing Toby Dean

1. Tax reform PC18

- 2. Planning reform
- 3. Public land, public housing
- 4. Support for alternative models
- 5. First Nations knowledge

Fieldwork

workshop. = laundry
bike stand
dog wash

stoop=> landscape.

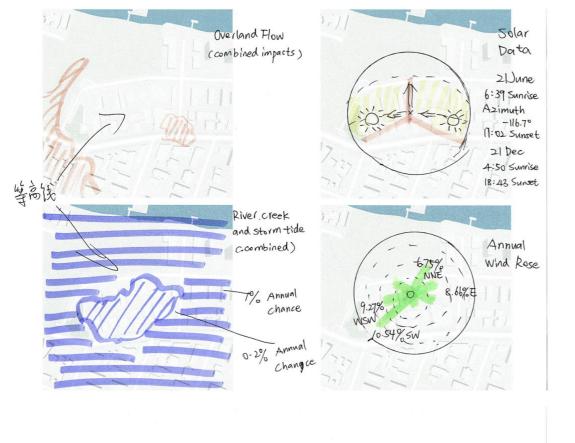
BBQ

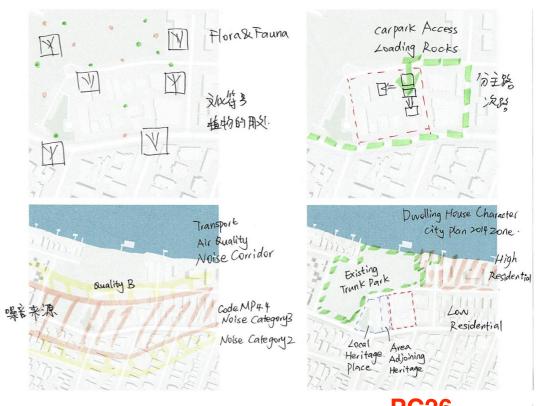
Recreation public

gas - Free Pouble - glazing

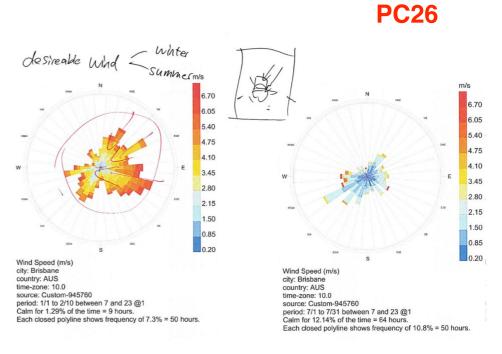
Disables - children - pet

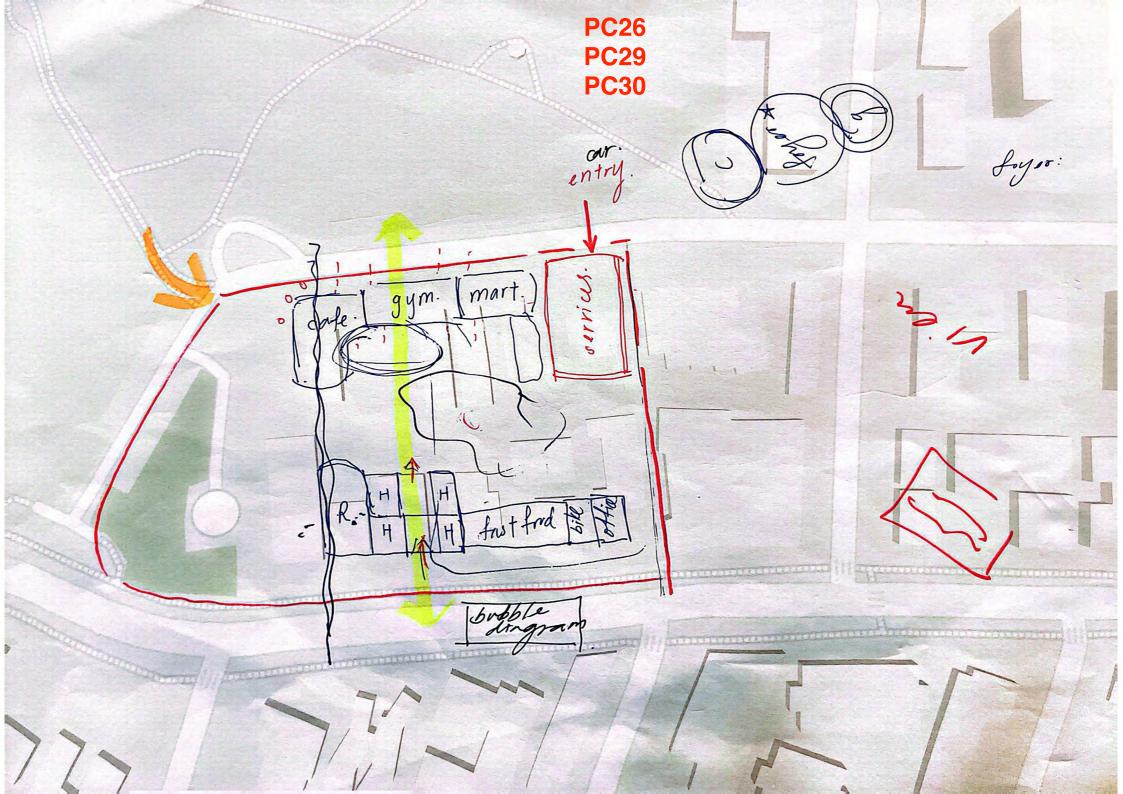
Friendly











First Nations/Country, Theresa Bower

· Cultural Competency Basic understanding

- · First Nations Culture & History
- · History of colonisation & effects
- · connecting to country & deep listening

cross cultural Engagement =>

· Key considerations

· Developing engagement Strategy

· Introduction to designing with country as a process

7043 Design

WHY. WHO. HOW

U Research & Contact

Design Principles

country contric Methodology

Cultural Knowledges

Research · Setting Project Asperations & Process

Reflection

Design Principles

- · Governance
- · Engagement

· Shared Economic Benefits

> Project conception learn & information Project Proposal set ambition

Expression of Interest

Business case Embed in project Project management plan

CIT Construction — a cousties

pre fabrication

25 kings structure

NIOA Headquarters office

MPC184 Apartment

PC36

above flood level

- Fire protect timber

PWD acress

Ciround

Street Berm 6.0 m Lamb

Design Brief & development

Implement & Check

Report & Review of principles based on aims

frem ElO Peport Back

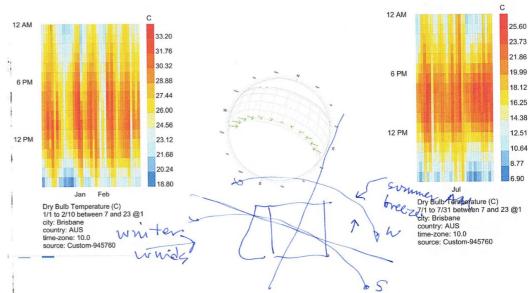
Basement suit levels ramping dl flood impacts VI

Arkhofield guide Applicable code Service vehicles





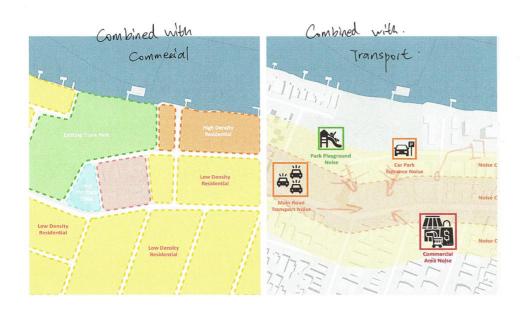




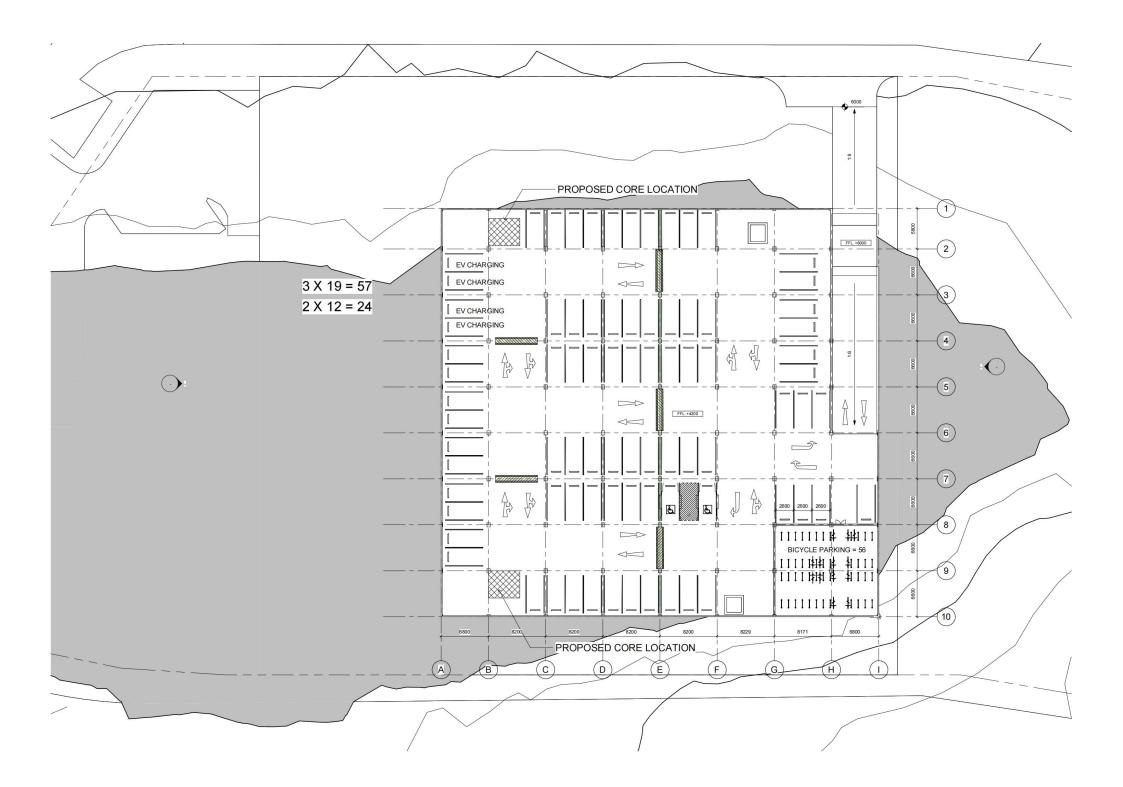
sun (attenden).

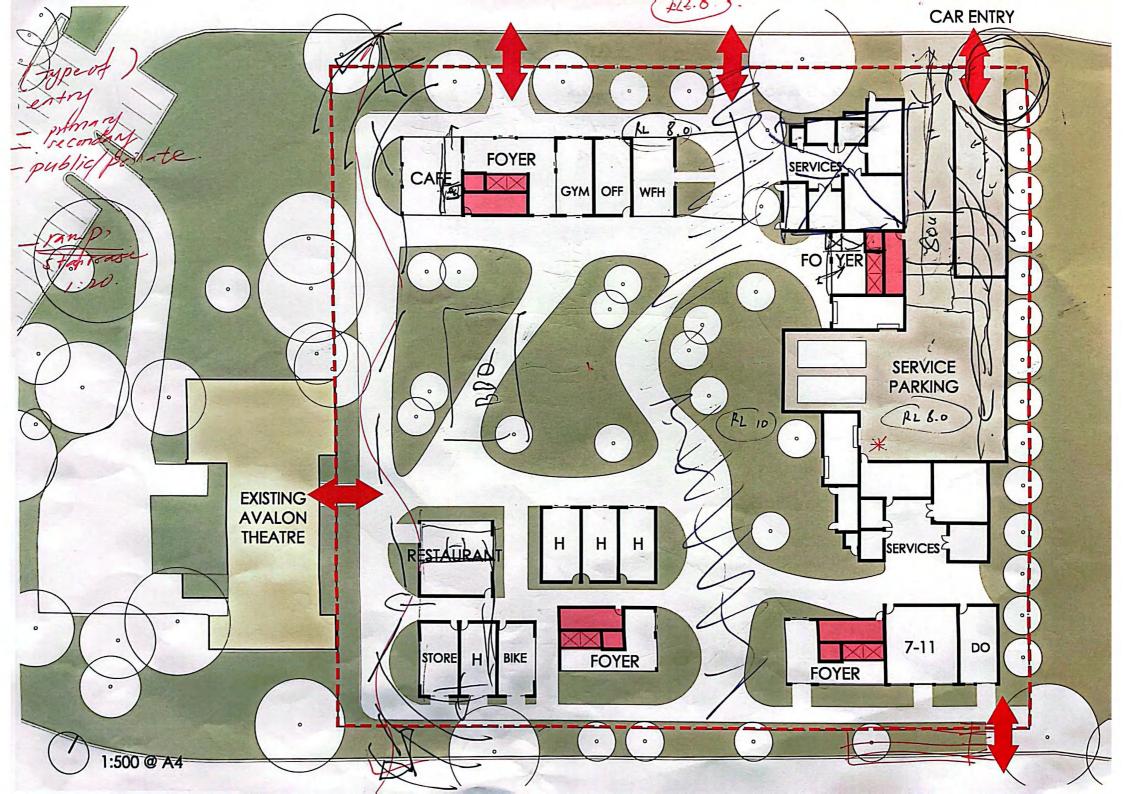
PC26 PC30

Check BCC Map









PC18 PC26 PC36

First Nations artifactual remains Heritage Processes

Create a accessible part of the site Billy Barlow Gubbi Gubbi

Gubbi Gubbi (Kabi . Kabi) Indigenous Australian Group from Sunshine Coast and surrounding Ru

His life and Legacy are particularly noted for his involvement in interactions between Indigenous Australian and European settlers during mid 19th.

Frontier Conflict Land Dispossesion cultural Upheaval for Aboriginal communities.

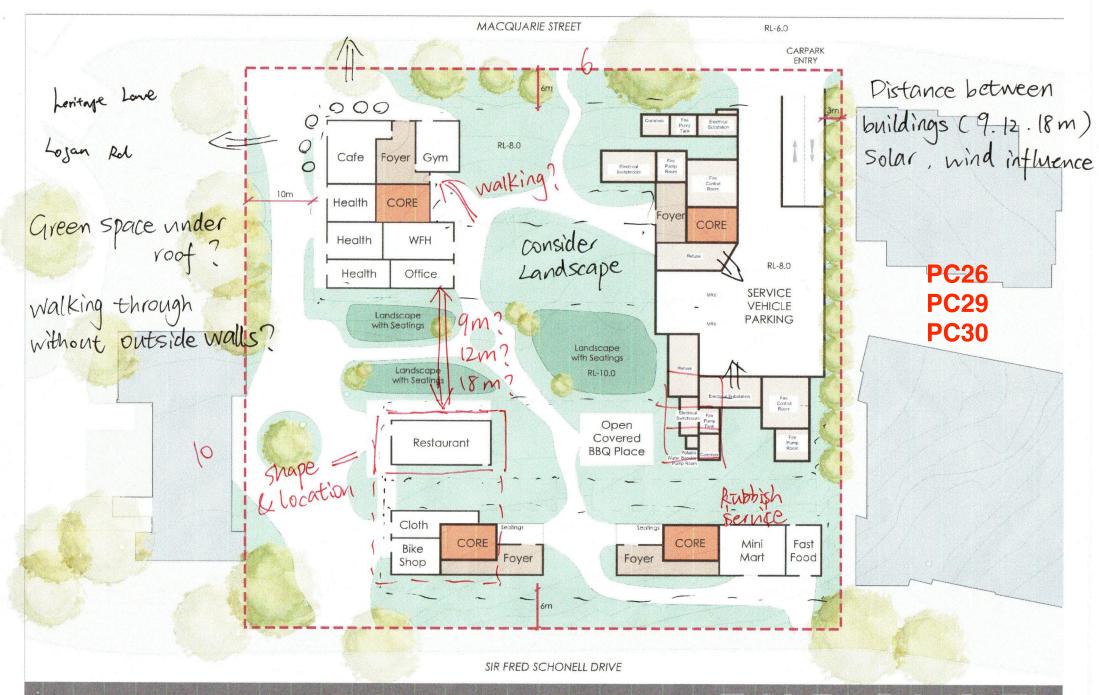


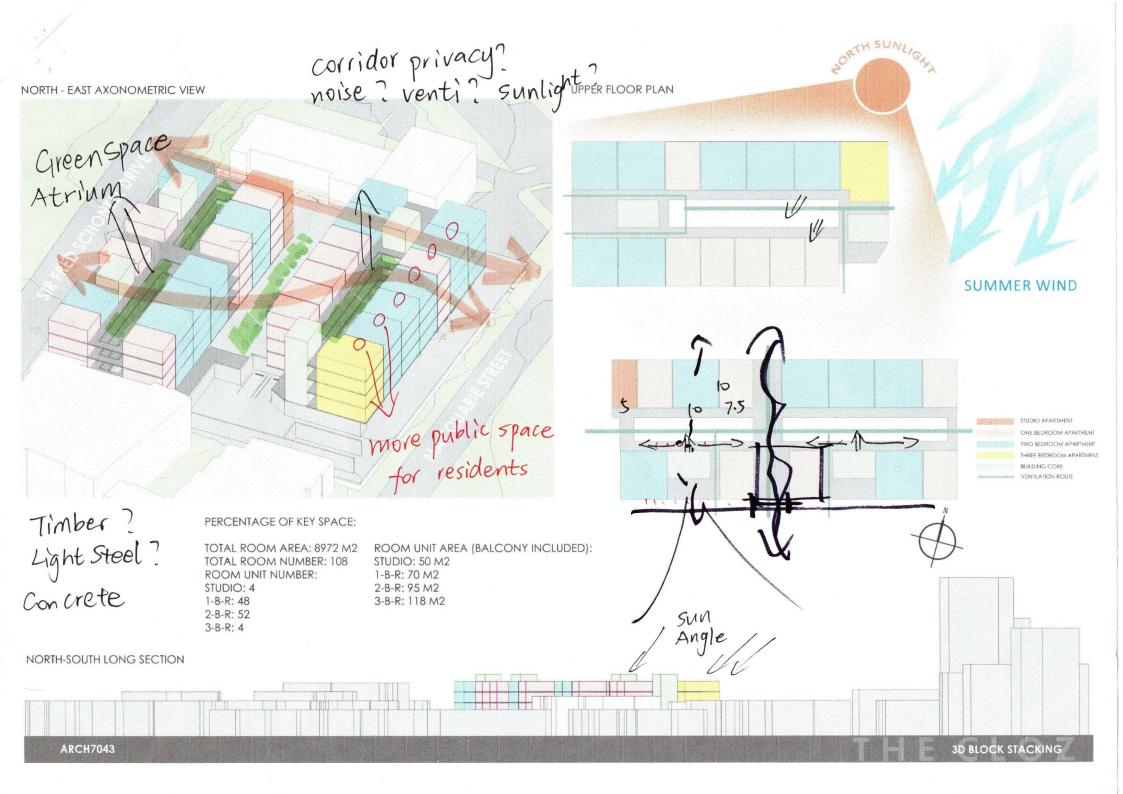
Billy Barlow Resilience. Connection.

Barlow is romembered for hisrole as mediatoand a guide. Assisting European settlers in navigating the territories of the Gubbi Gubbi. His knowledge of the land and its pathways, and abilities communicate across cultural boundaries, made him valuable intermediary during turbulent period.

Like many Aboriginal people of hir life. Barlow also witnessed and experienced the severe impact of colonization on his people including loss of land distruption of traditional ways of life, and spread of diseases.

importance of recognizing and hourring the contributions and experiences of Aboriginal Australians.





Connection With Country

S Designing with Country Process

{ Connecting with

Country Contered Design

Listening to country

Everyone

U

Co-Designing with First Nations people artists, academics and built environment Professiors

V

Co-designing with Traditional Custodians

"Connecting with Country Framework"
Feedback loop with First Nations people and Traditional

Project Team First Nations People

FeedBack Traditional Custodians

LOOP PC18

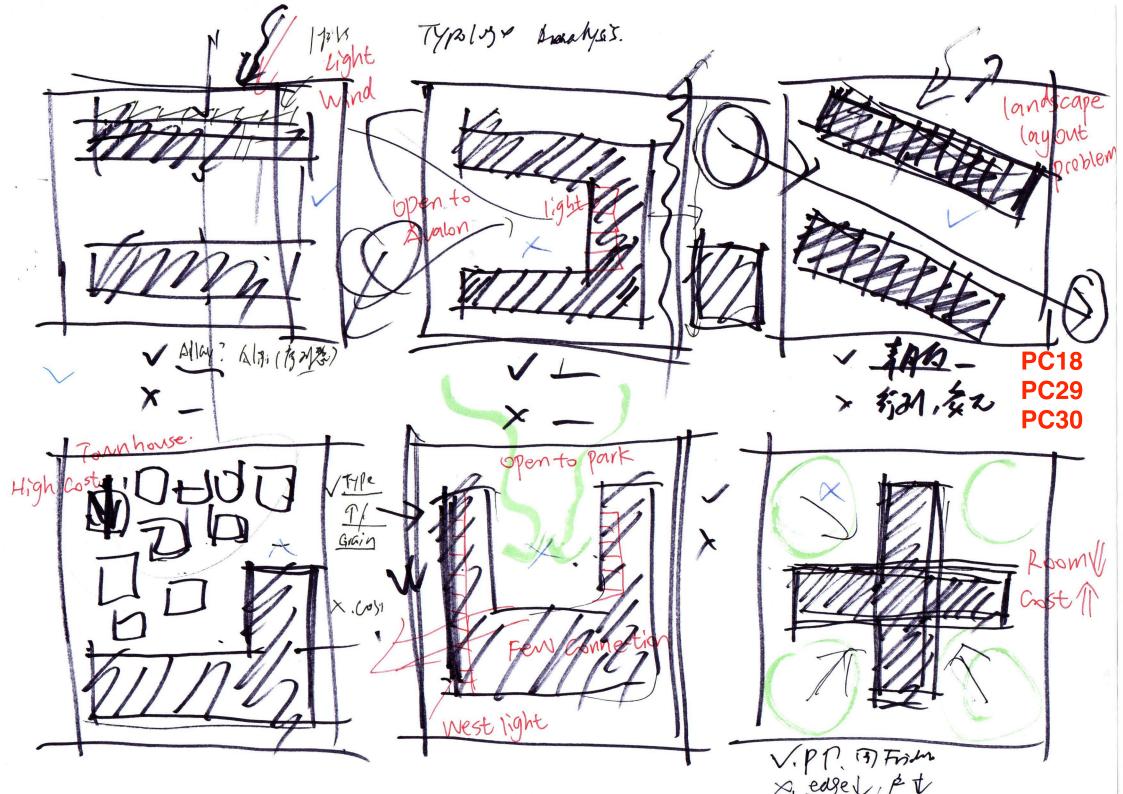
Listening To Country

PC36

- 1. History
- 4. Ecology
- 2. Balance
- 5. Materials
- 3. Natural elements
- 1 Indigenous and Mon Indigenous
- Suit and natural elements
 Human At Non-human
 Tangible and non-tangible.
- D Sun. Wind. Water Geology

- @ Hora and Fauna
- Natural materials
 Colours

Abundance



Projects that Incorperate Indigengous Knowledge

Healthcare Buildings

Agecare Facilities

Knowledge Contres

Education Buildings

Cultural Contres

The Gurring Yealamnckon Health Wellbeing Centre

Rooted in the community and cultural heritage of Yarrabah. A first Nations community in Queensland The name translates to "good healing waters" in the language of the Guggandii people symbolizing its Commitment to healing and connection with Country

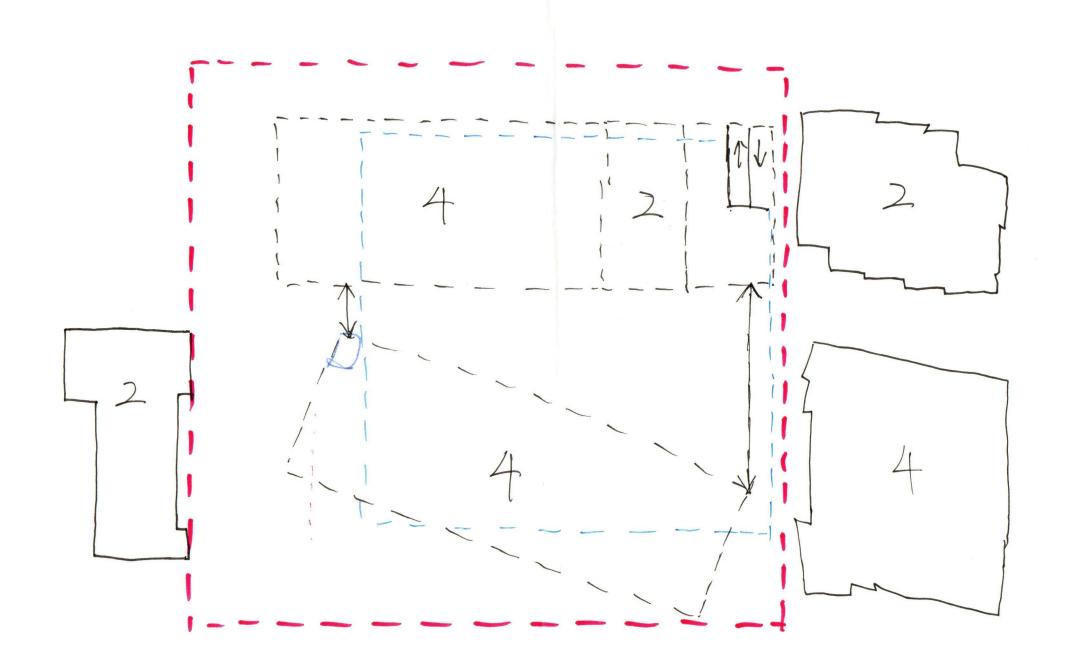
The work of the Gurriny Yealamucka and Wellbeing Centre exemplifies a holistic approach to health that indegrates physical, social, and emotional well-being, grounded in the cultural practices and knowledge of the Yarrabah community. Through its services and programs, the Centre not only addresses

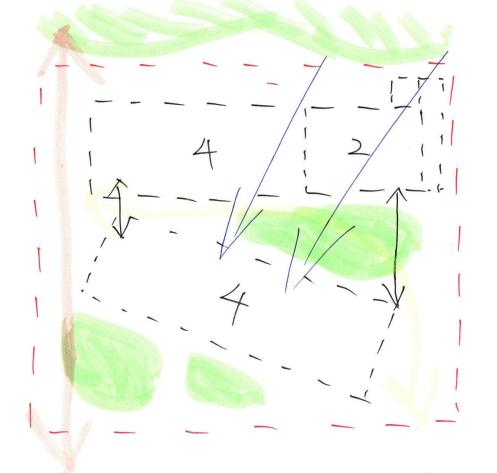
The Puntu Kurnu Aboriginal Medical Services Healthcare Hub

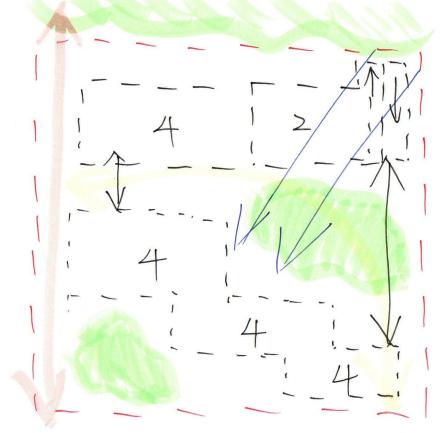
This is a landmark project thats integrates Indigenous Knowledge and Australian Aboriginal culture into its architectural and operational framework. This primary healthcare facility is note worthy for its deep Connection to the community, cultural inclusivity and sustainability.

A standout feature of the facility is the its use of rammed earth. Sourced directly from the site, which not only reduce the building's environmental impact but also creates a visceral connection to the country.

only 2 trees removed for construction over 2000 local endemic plants used in landscaping



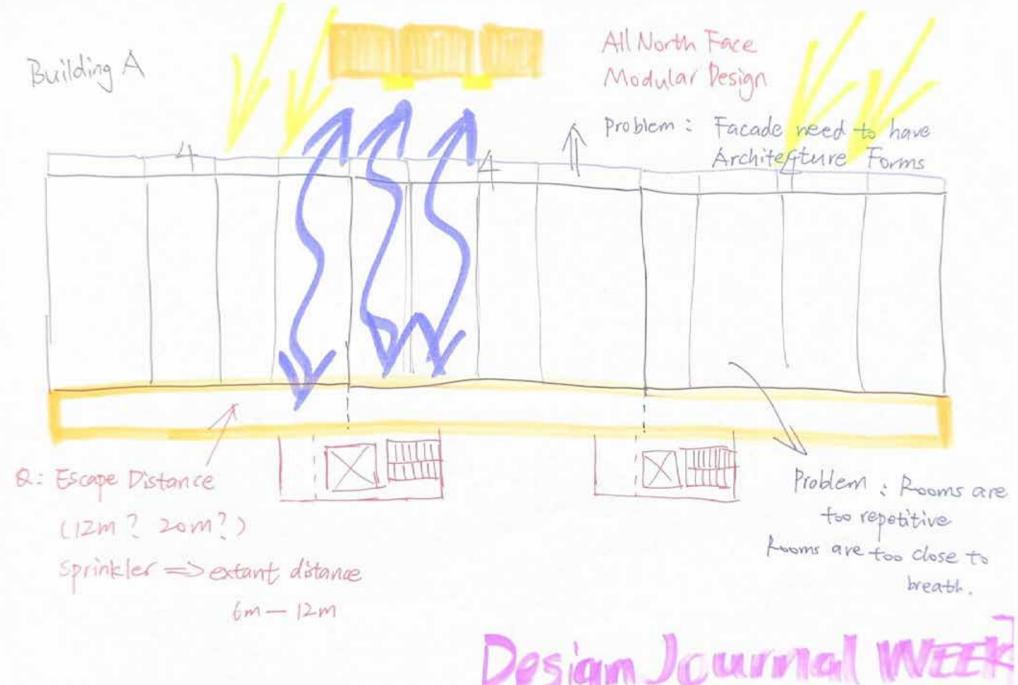


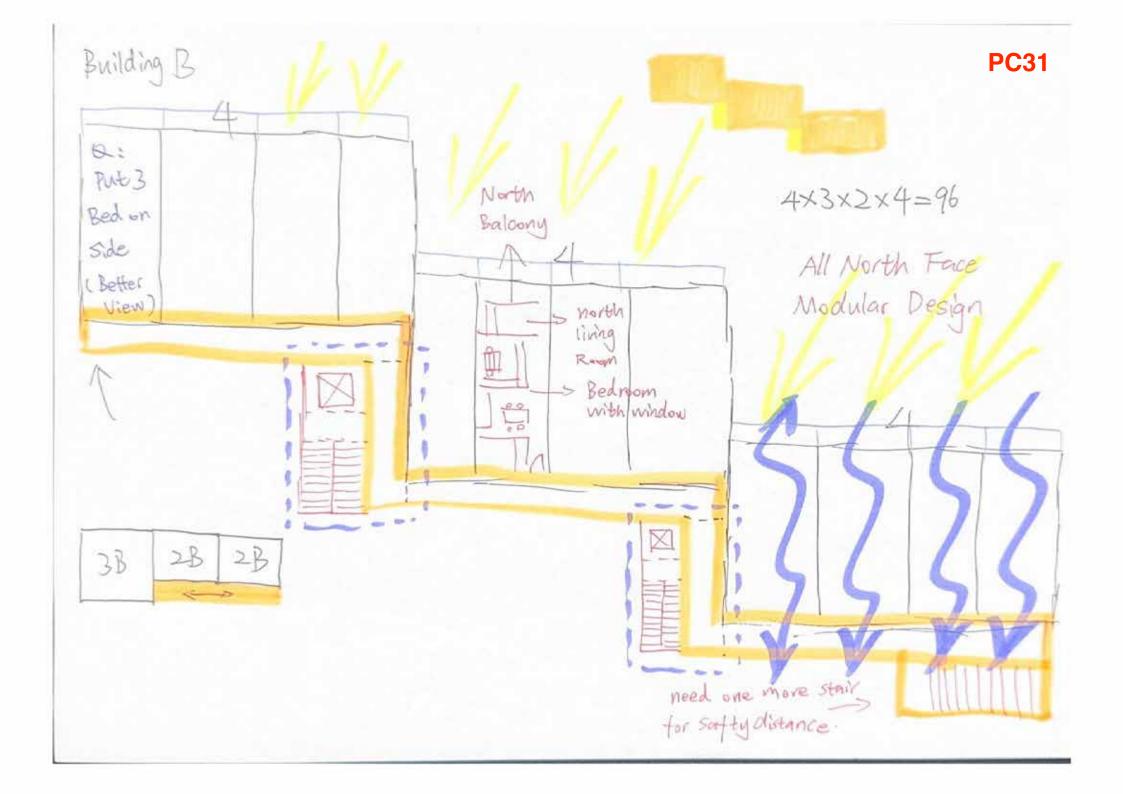


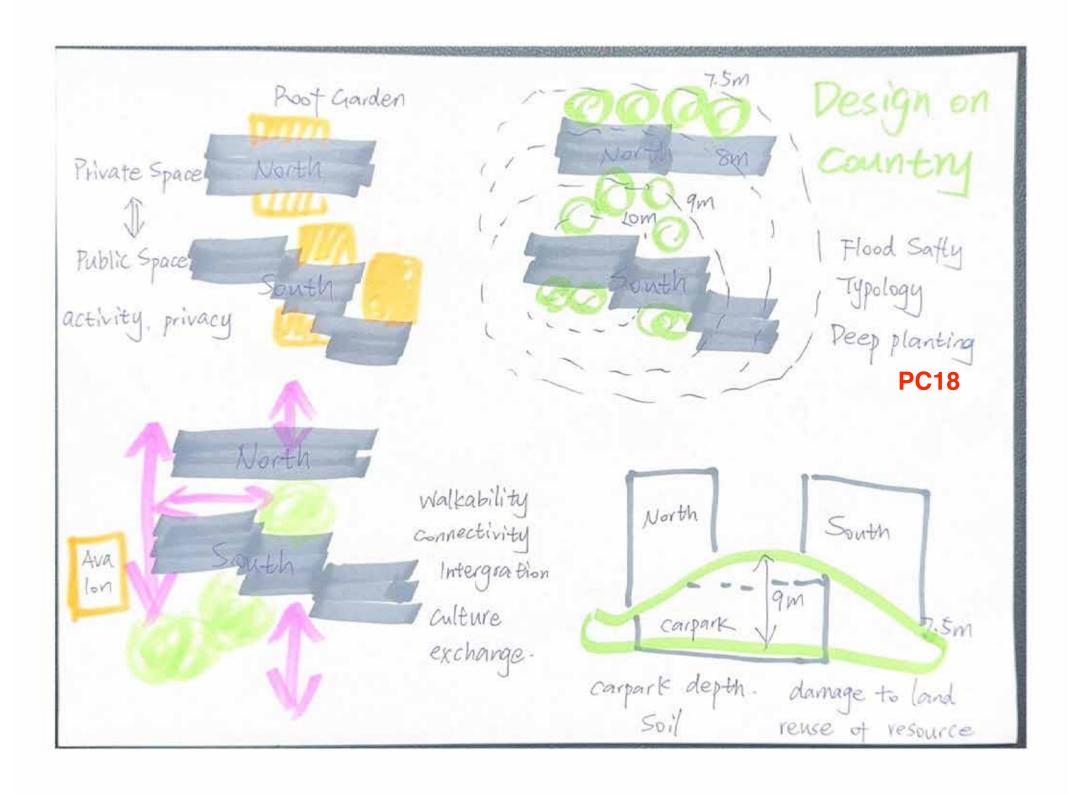
2-4 Stories Building I tace Park 4 Stories Building 2 tace North

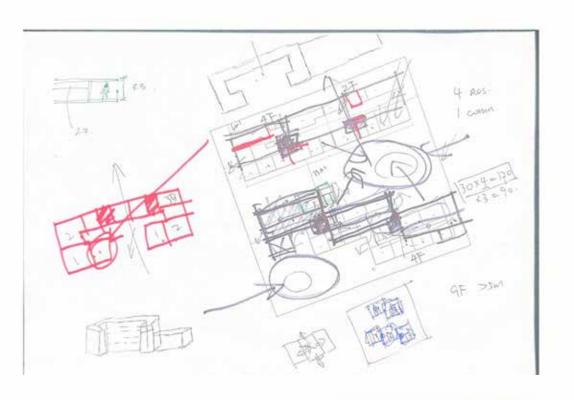
Building Distance < 15 m Separate Public & Private space Difficult Grid Matching Larger Building Distance > 15m Grid Matching with Carpark Indigenous Friendly - soil - Flood

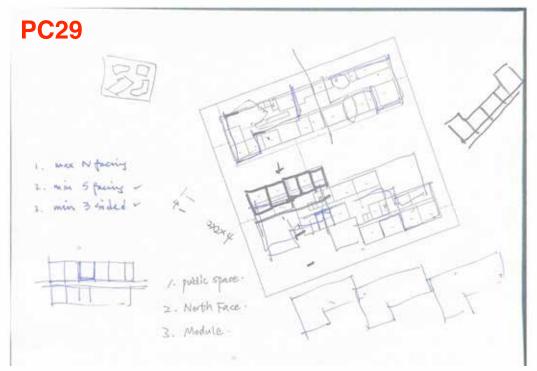
- Breeze Interaction with Avalon Threateur Guyatt Park South Commercial

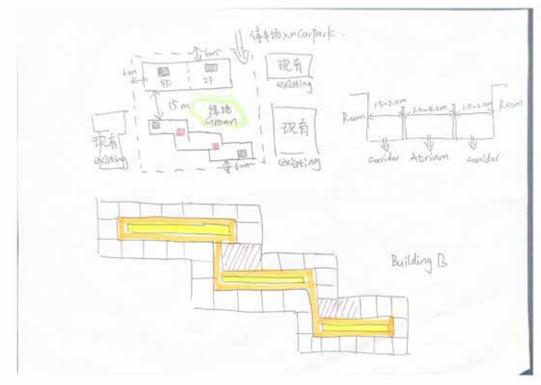


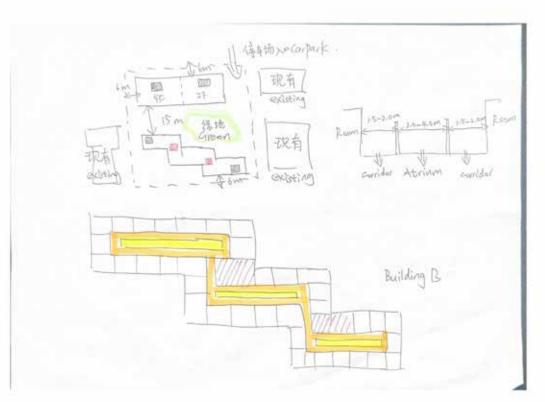












Landscape on medium - rise residential projects and andigenising landscapes

Pavid Uhlmann

· Healthy and Active Living

· Community Development

Liveability . Sustainable Buildings

· Culture, Heritage and Identity

· Walkable Access to Amenities

· Access to Fresh Food

· Safe Places

Good Development

· Design Merit

· Community Dividend

· Sustainability

Innovation

. walkability => walk& bike

· Acress to open space => to park

· Access to outdoor recreation => to road

. Green building and the principles have been around for decades.

· Rating schemes and mandated minimum standards.

Affordability vs. Sustainability

Fytogreen Green Wall Systems

· Specialist manufactuer / System design.

· Load biodiversity

· Microclimate

· Irrigation

· Soil Volume

· Maintenance.

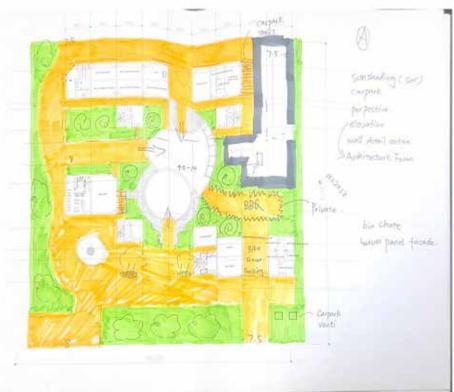
· Vertical Forests in Milan

· (Locally endemic species selected and placed according to buildings

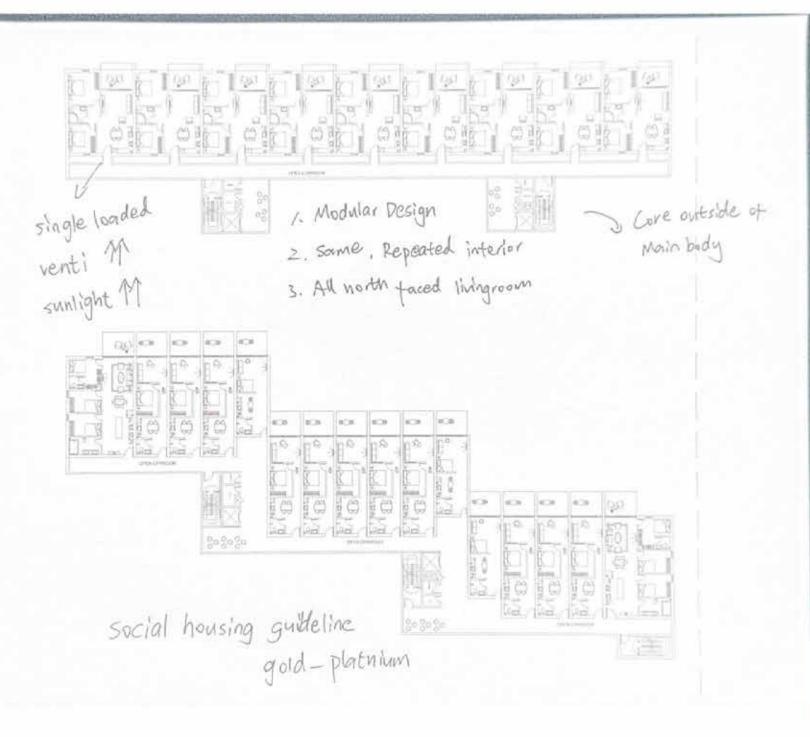
microdimate)











Energy Water & Sanitation Systems
Malcolm Rae

Building Service => Air. light. Communication water. waste

The building services on a Standard project will eat between 25 to 40% of a project budget. up to 50% for an interior titout or returbishment.

Consultants => Engineers, Building Services

Engineers (Architect) = (Services)

Team & Communications . Understanding engineers

- · Delivering and selling your vision
- · Correct information exchange.

Ceiling Examples: Exposed Ceiling Services in GSI-Steel Building Basement Plantroom, 30 of Plantroom.

Electrical · Typical Energy Systems

- · Sustainable Energy Systems
- · Solar Array
- · Energy Storage
- · Building Energy Control

Mains Power . Local Substation

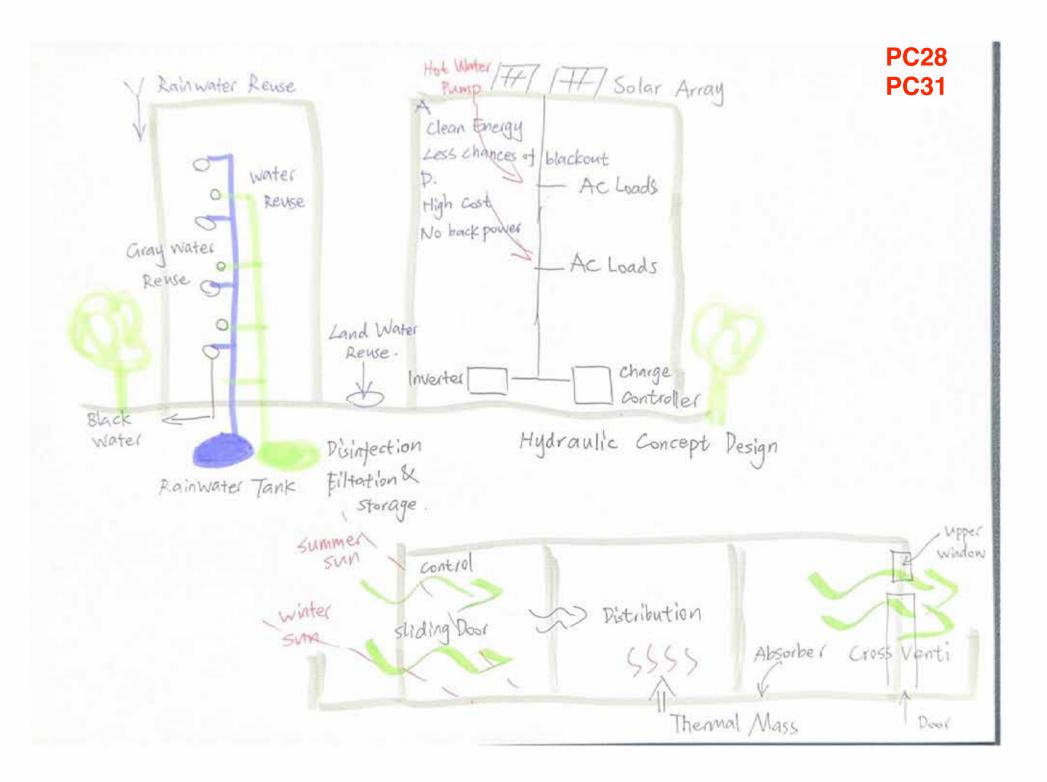
- · Transformer 11000 to
- · Main Building Switch

-board

- · Solar Array
- · Wind Turbines
- · Co-generation and tri-generation
- · Ana ebobic Dig estor
 - · Life Regeneration

Hydraulic

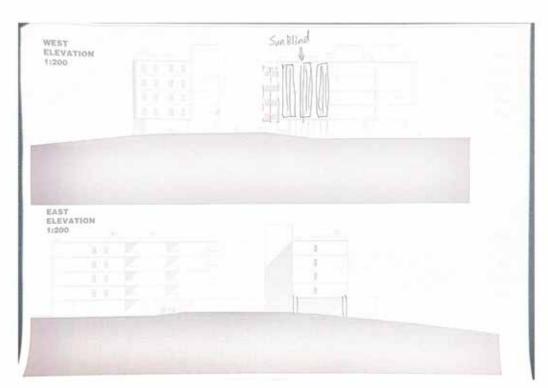
- · Typical Hydraulic Systems
- · Sustainable Hydraulic Systems











Conclusion

The Brisbane St Lucia Affordable Housing project has been an enlightening journey that extended my understanding of sustainable architecture and deepened my appreciation for culturally responsive design. This project has underscored the importance of integrating Environmental Sustainable Design (ESD) principles to not only reduce environmental impact but also enhance the well-being of its residents. Through the application of passive thermal designs, water conservation systems, and energy-efficient technologies, I learned how sustainability can be woven seamlessly into modern urban developments without sacrificing functionality or aesthetic appeal.

Designing on Country has been particularly transformative. It taught me the significance of respecting and incorporating Indigenous knowledge and traditions into architectural practices. Working closely with the local Indigenous communities to integrate their connection to the land into the design was a powerful reminder of the role architecture plays in shaping culturally sensitive spaces. This aspect of the project challenged me to think deeply about how buildings can honor and reflect the histories of their sites while contributing positively to the community's identity and cohesion.

Overall, the project has been a profound professional growth opportunity, enriching my skills in sustainable design and fostering a holistic approach to urban development that I will carry forward in my future architectural endeavors.