

# MACRO SITE ANALYSIS

## SITE OVERVIEW

Strategically nestled at the southern edge of the Sierra Madre and along Laguna de Bay, Pangil boasts a rich natural landscape, pristine rivers, hiking trails, forest reserves, upland cool breezes, and waterfalls like Ambon-Ambon and Buntot Palos, making it a budding eco-tourism hub.

## REGION

Region IV-A, also known as CALABARZON.

## CURRENT LAND USE

Agricultural

## LOT AREA

1,499,400 sqm

## SITE HISTORY



Area inhabited by native Tagalog communities led by the legendary **Gat Pangil**.



Founded as a town by **Franciscan friars**, making it one of the oldest in Laguna.



Construction of the **Nuestra Señora de la Natividad Parish Church** begins.

**1578**

**1579**

**1611**

**1940**

**2000**



## MAP OF LAGUNA



PANGIL, LAGUNA

## WAYS AND INTEREST OF PEOPLE



### AGRICULTURE



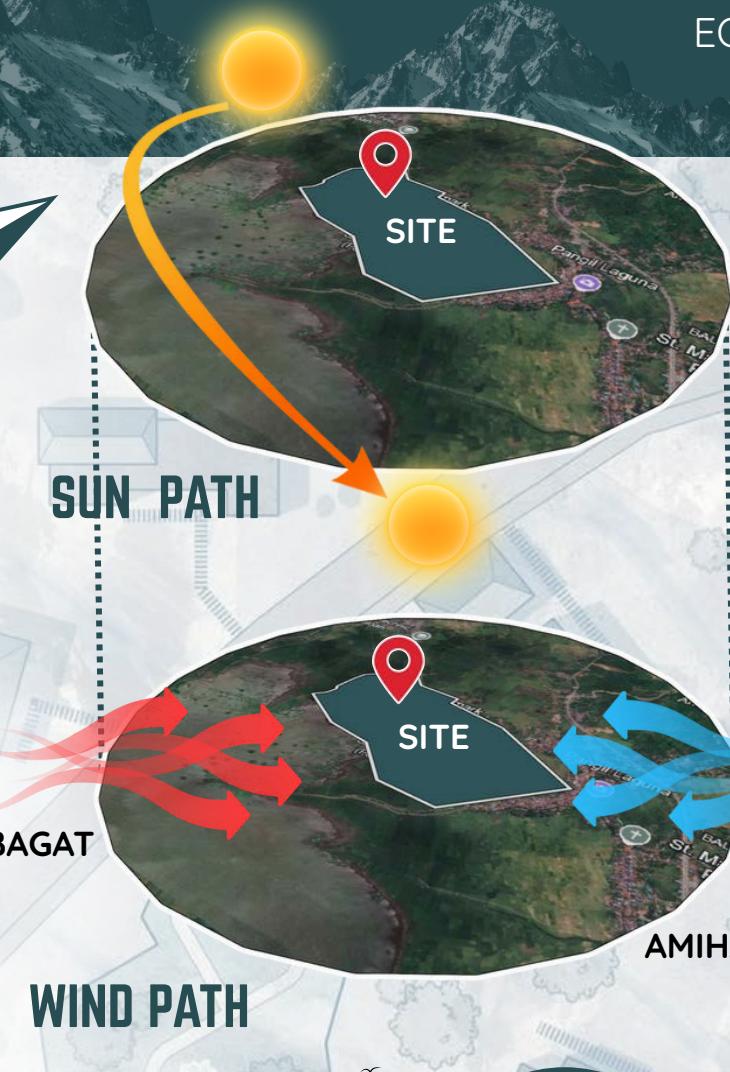
### FISHING



### CHURCH VISITS



### HIKING



## AGE



The age structure is youthful, with around **30%** of the population under 15 years old, about **64%** in the working-age group (15-64), and roughly **6%** aged 65 and above.

## TEMPERATURE



The average temperature in Pangil, Laguna typically ranges between **24°C** and **32°C (75-90°F)**.

## SWOT ANALYSIS

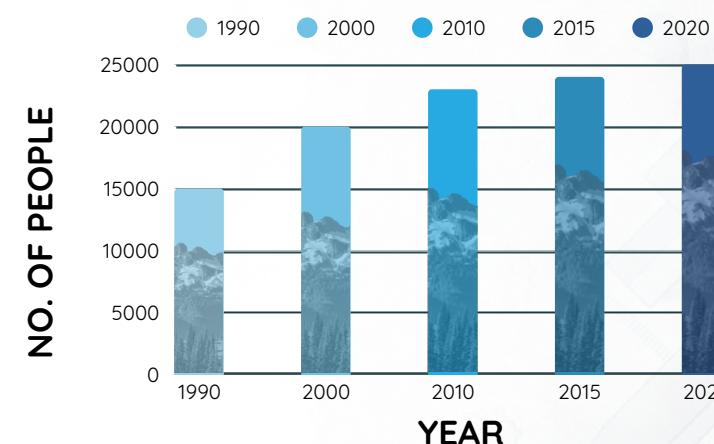


### STRENGTHS



Pangil offers a scenic and culturally rich environment ideal for a regional airport that promotes eco-tourism. Its natural beauty and historical sites, like the Pangil Church and Gat Pangil legacy, can attract both local and international visitors.

## DEMOGRAPHY



## MOISTURE



**Rainy Season Jun-Nov**  
High moisture levels and frequent rainfall

**Dry Season Dec-May**  
Still humid, but with less rain and more sun



## TERRAIN

The Site is Relatively **FLAT**



### OPPORTUNITY



Developing an airport can boost tourism, create jobs, and improve transport links for nearby towns. It opens doors for sustainable growth, local business development, and increased visibility of Pangil's natural and cultural attractions.

### THREATS

Environmental risks like flooding and terrain challenges could affect airport construction and operations. Unregulated development may harm the area's ecological and heritage value if not carefully managed.

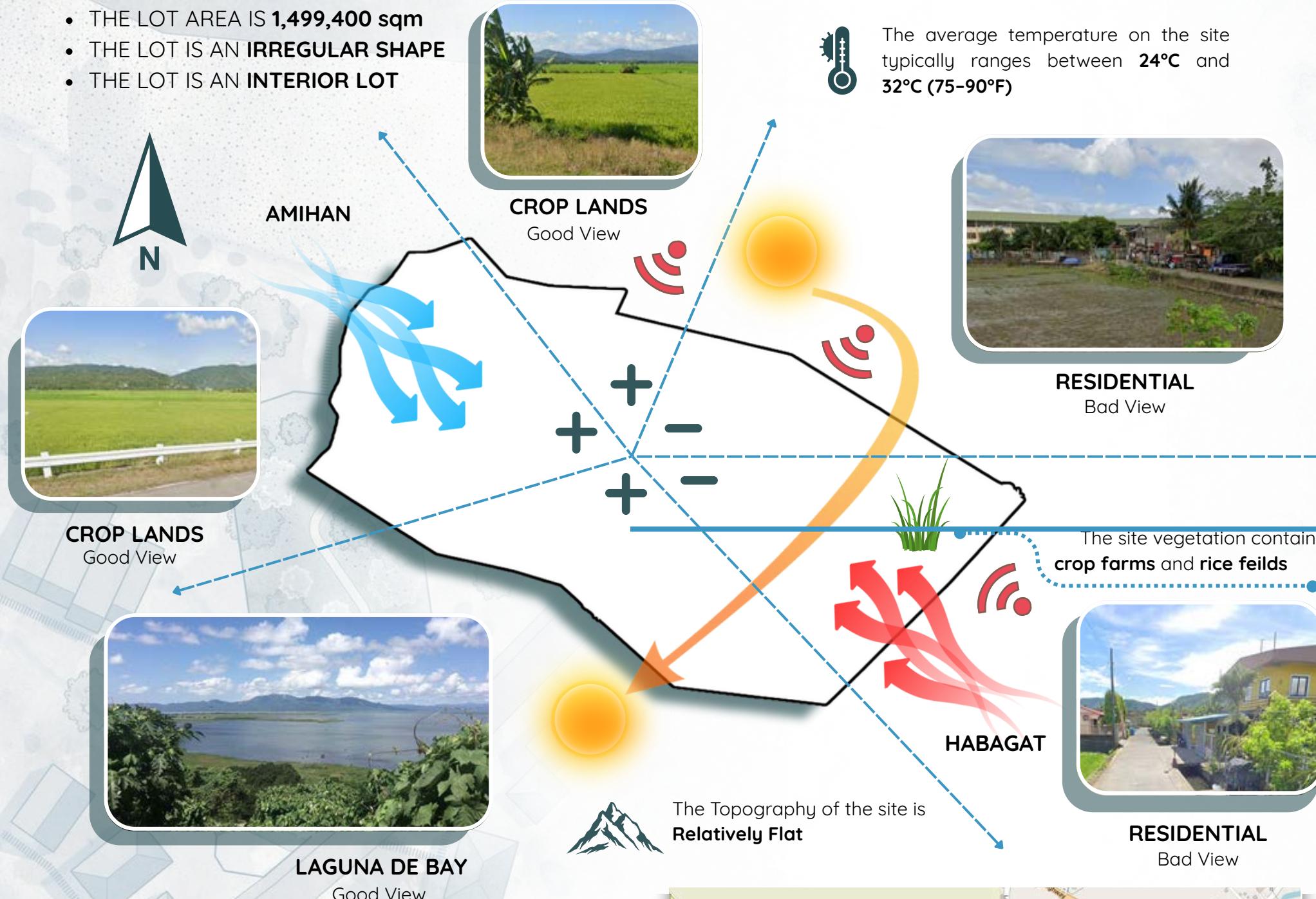
# MICRO SITE ANALYSIS

PANGIL, LAGUNA

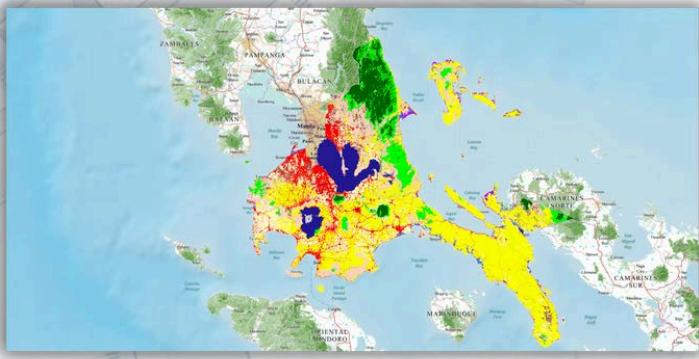
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## PHYSICAL QUALITIES AND CONDITIONS AT THE SITE

- THE LOT AREA IS 1,499,400 sqm
- THE LOT IS AN IRREGULAR SHAPE
- THE LOT IS AN INTERIOR LOT

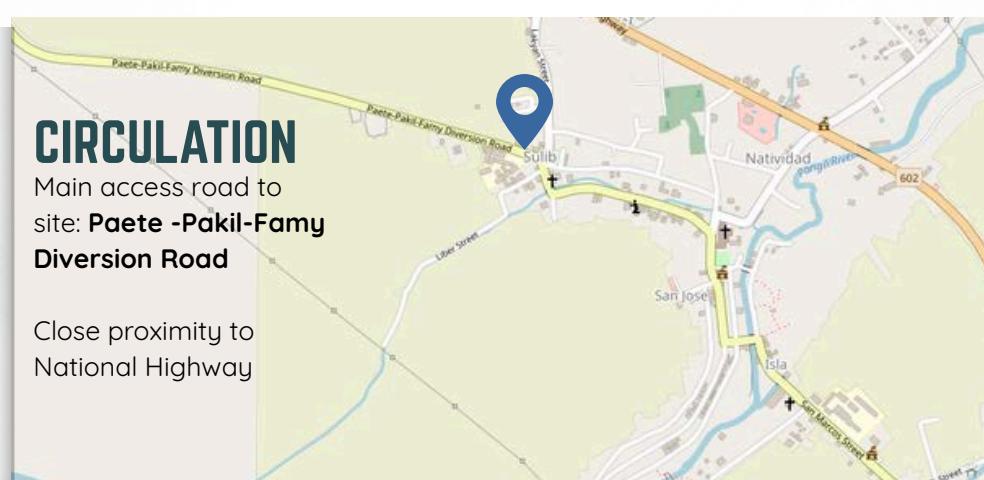


## LAND COVER MAP OF REGION IV-A



Legend:

- Annual Crop
- Brush/Shrubs
- Built up
- Closed Forest
- Fishpond
- Grassland
- Inland Water
- Mangrove Forest
- Marshland/Swamp
- Open/Barren
- Perennial Crop
- Open forest



## SITE NEIGHBORS



Laguna State Polytechnic University  
745m



Pangil River  
100m



Ambon - Ambon Falls  
1.8km



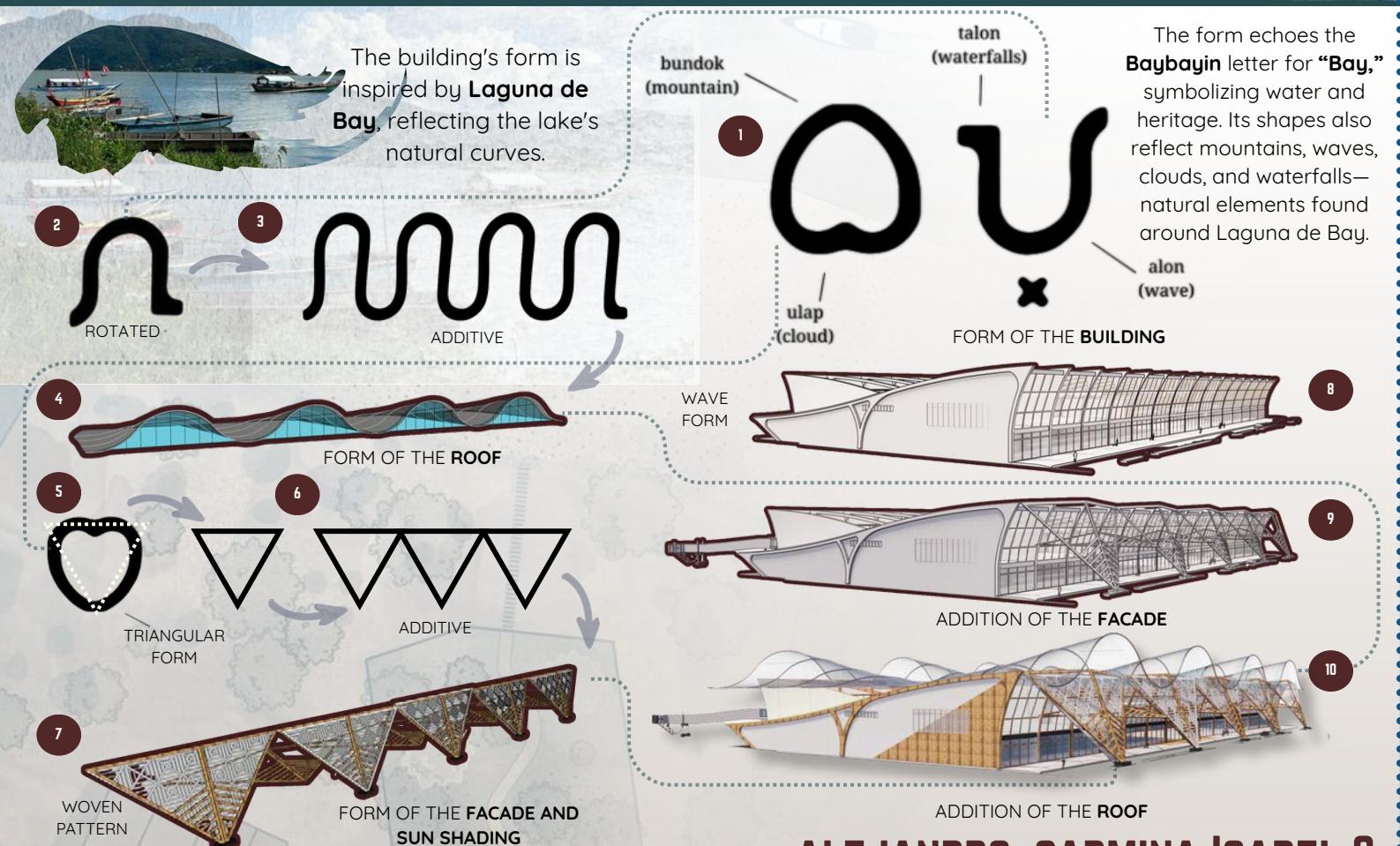
St. Mark the Evangelist Parish  
600m

## BUILDING ORDINANCE

- 1 Building Permit** (PD 1096 - National Building Code) - Required for all airport-related structures:  
**Must submit:**
  - Architectural, structural, electrical, sanitary plans (signed by licensed professionals)
  - Specifications of the airport facility (civil aviation compliance, runway dimensions, etc.)
  - Environmental Compliance Certificate (ECC)
- 2 Zoning Compliance** (Pangil's CLUP & Zoning Ordinance)
  - Obtain a Zoning Certification and Locational Clearance from Pangil's Municipal Planning and Development Office
  - Buffer zones and setbacks will be stricter due to noise, safety, and security concerns
- 3 Environmental & Safety Requirements**
  - Must secure an Environmental Compliance Certificate (ECC) from the DENR for air, noise, and land use impact
  - Include drainage systems, wind analysis (important for takeoff/landing), noise buffers, and vegetation preservation
  - Disaster-resilient design is required (earthquake, flood, typhoon resistance) per the Building Code and local hazard maps

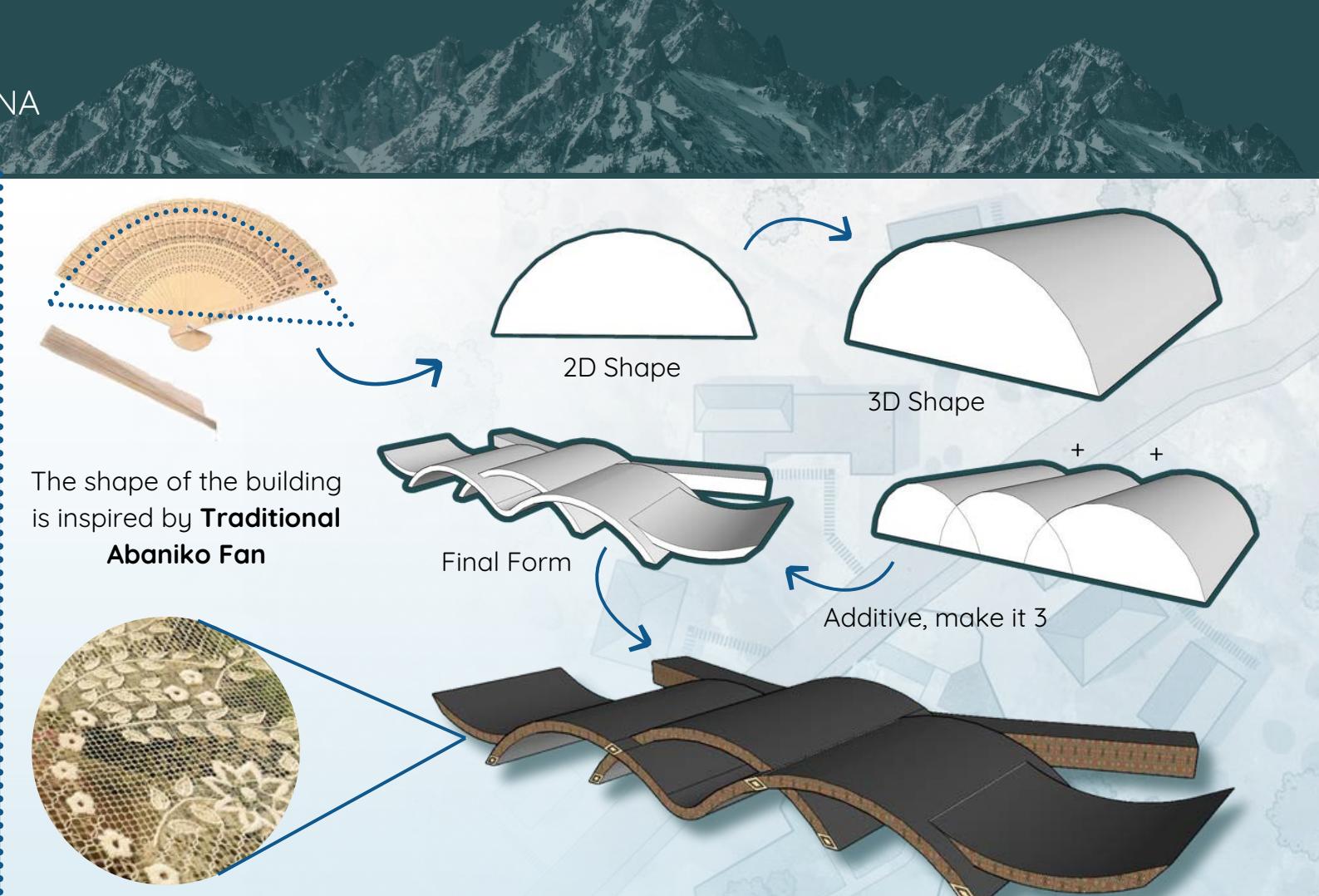
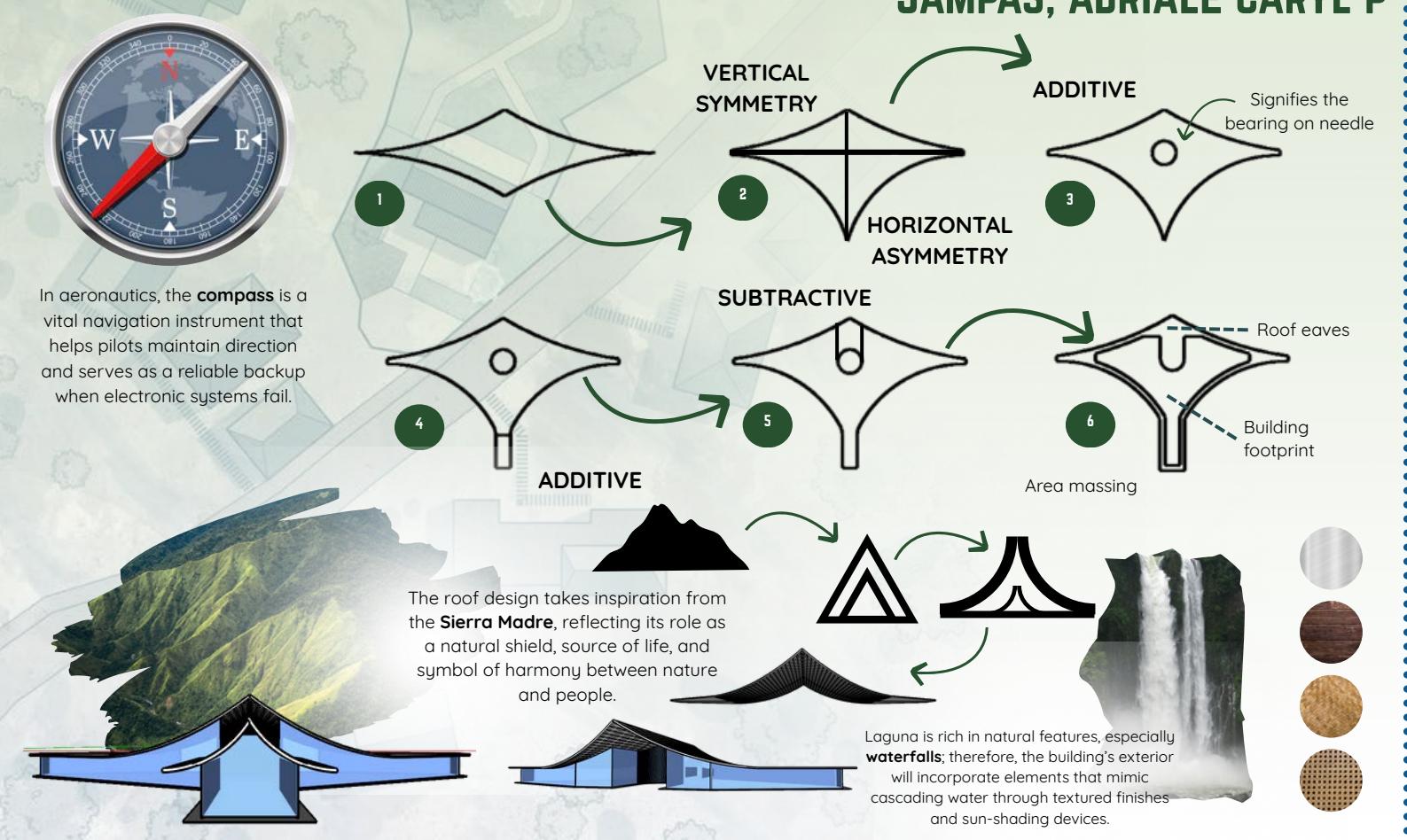
# CONCEPTUAL DESIGN

PANGIL, LAGUNA



## **ALEJANDRO, CARMINA ISABEL C**

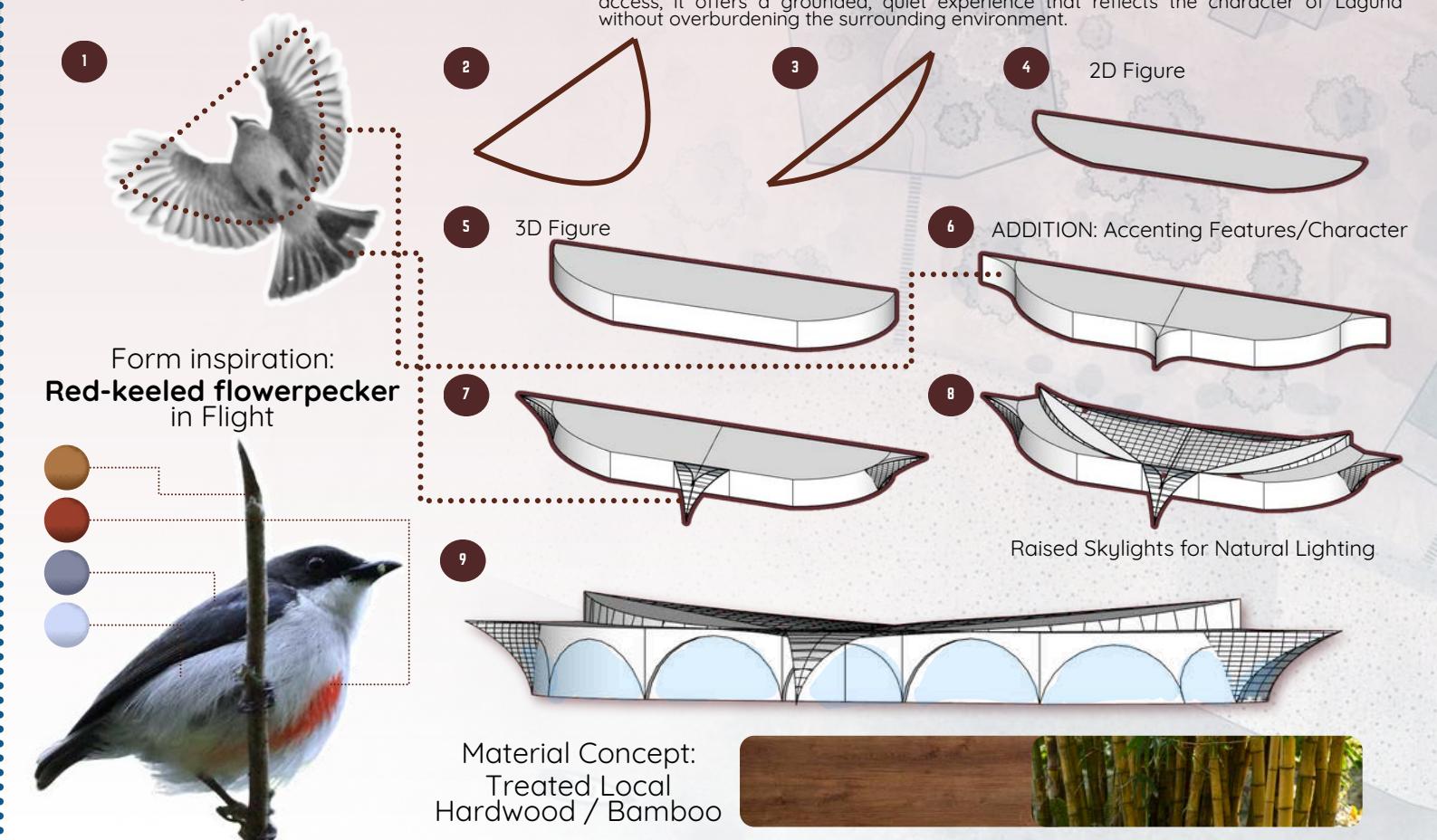
## JAMPAS, ADRIALE CARYL P



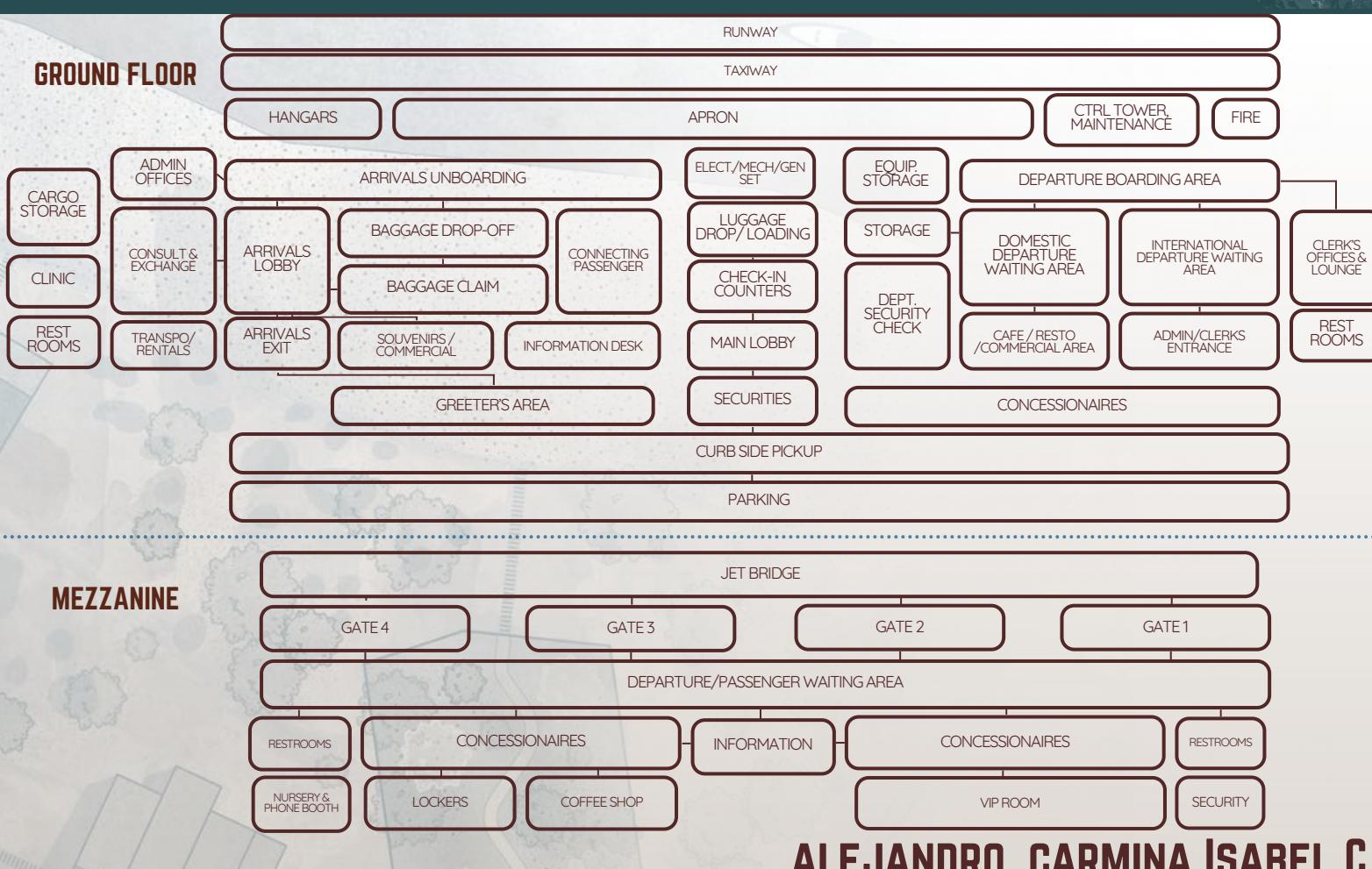
## **MANIMTIM, ZACHARY R**

## **ACURANTES, HAZEL LOUISE P**

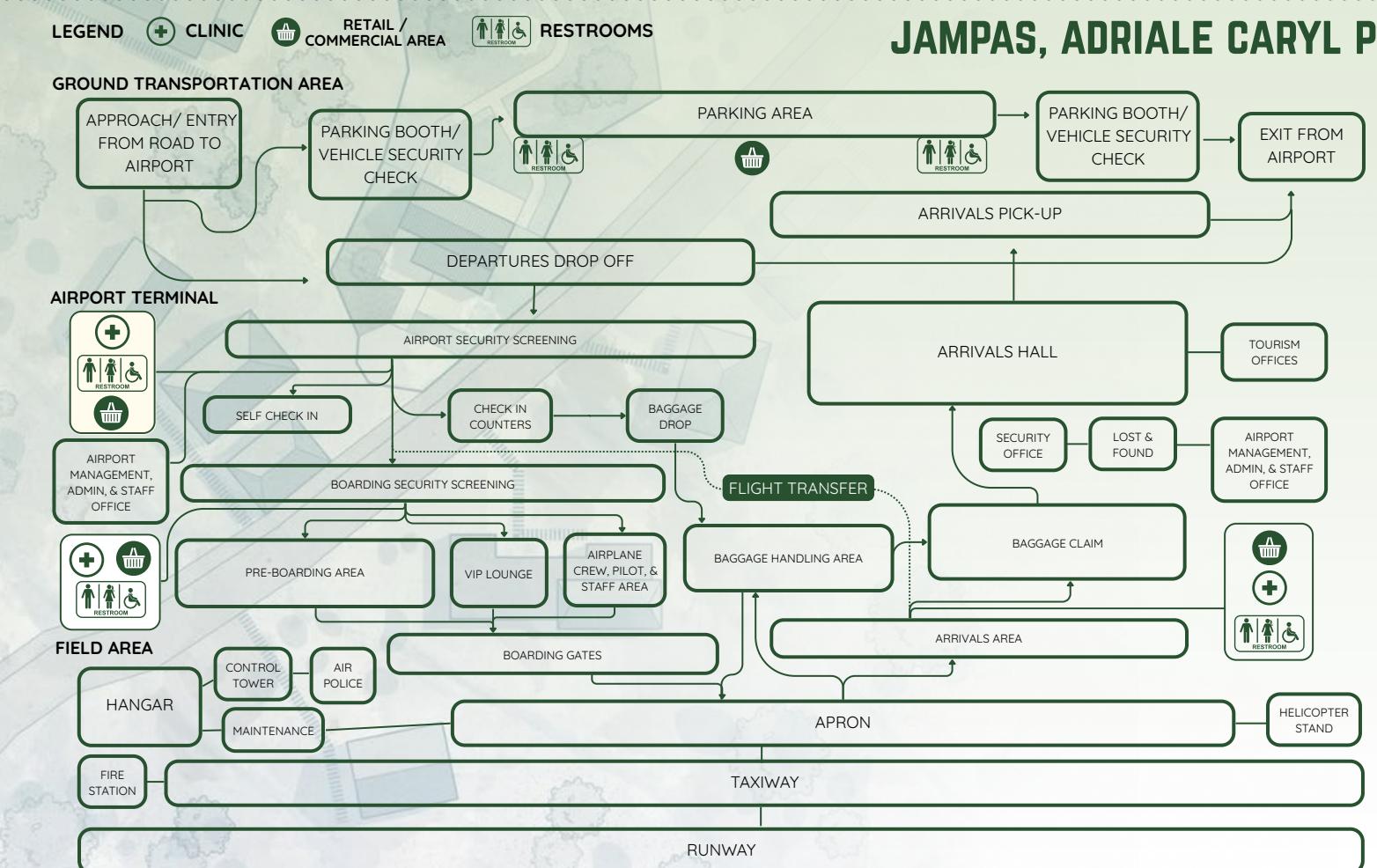
The design takes cues from the Red-keeled Flowerpecker, a bird native to Laguna, known for its small size but vibrant presence. With natural materials, natural lighting and ease of access, it offers a grounded, quiet experience that reflects the character of Laguna without overburdening the surrounding environment.



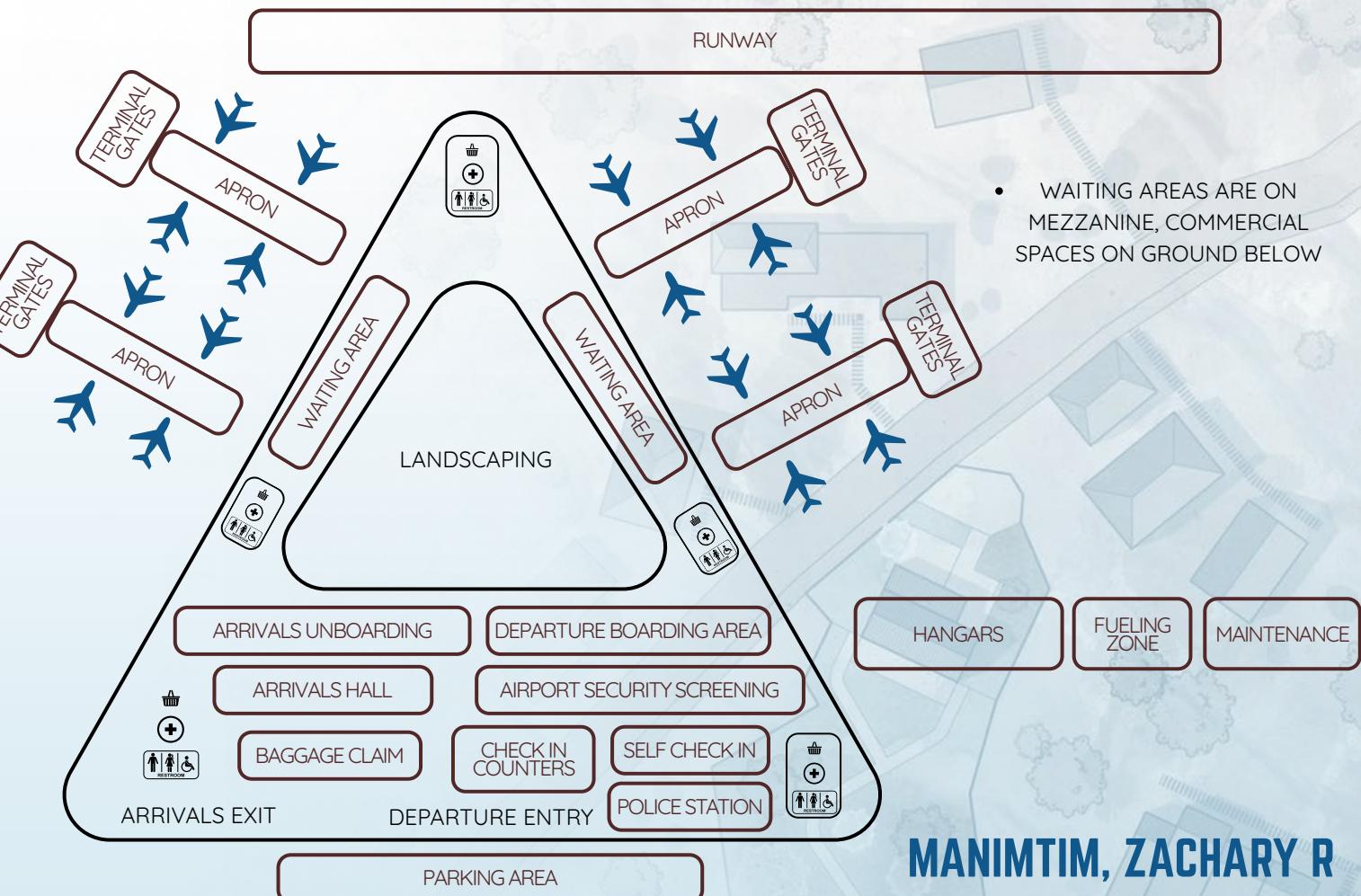
# INTERRELATIONSHIP DIAGRAMS



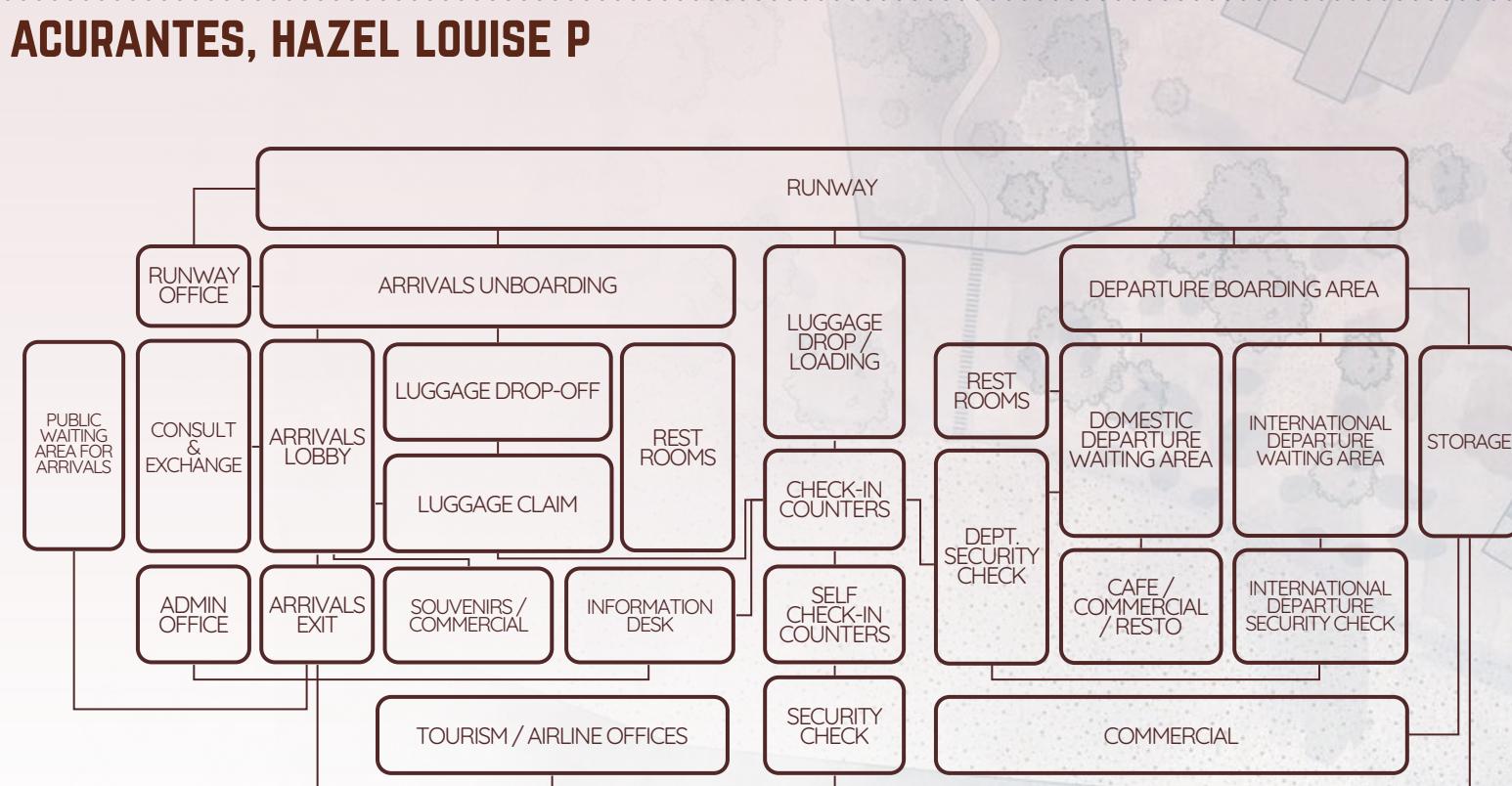
## **ALEJANDRO, CARMINA ISABEL C**



## JAMPAS, ADRIALE CARYL P



# MANIMTIM, ZACHARY R



## PANGIL DOMESTIC AIRPORT INTERRELATIONSHIP DIAGRAM