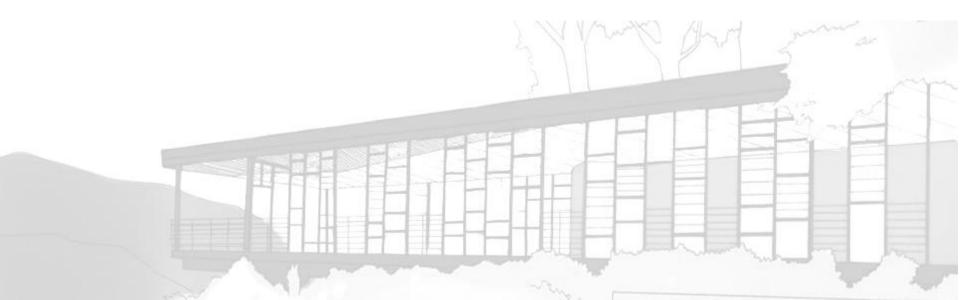
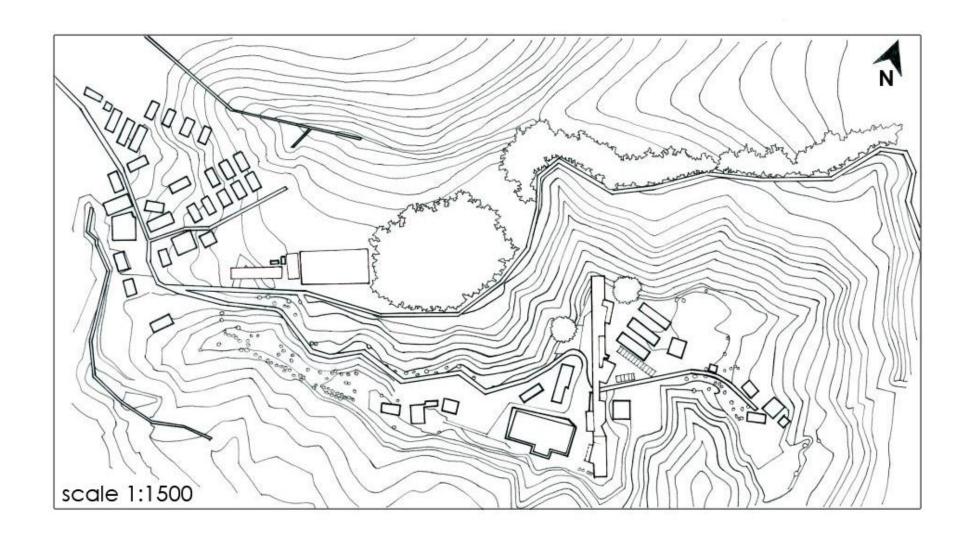
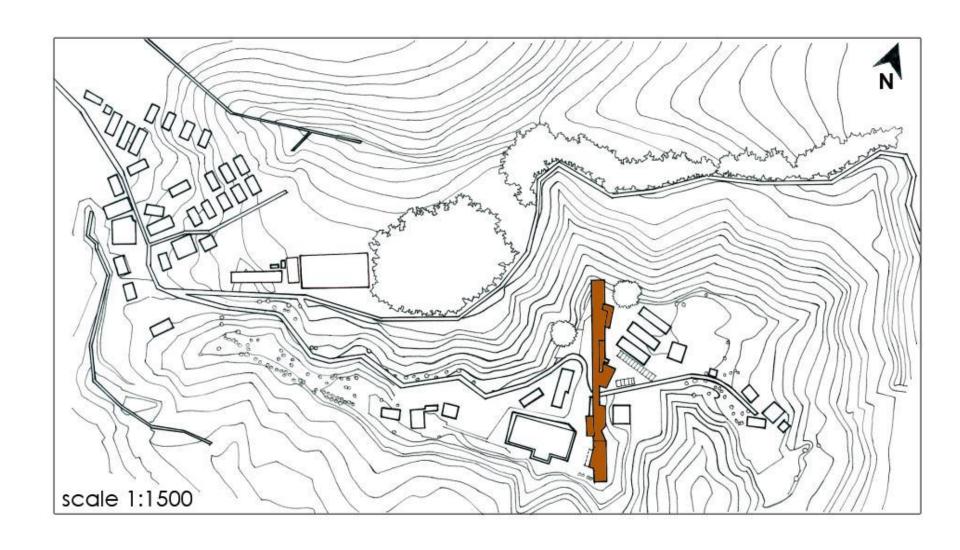


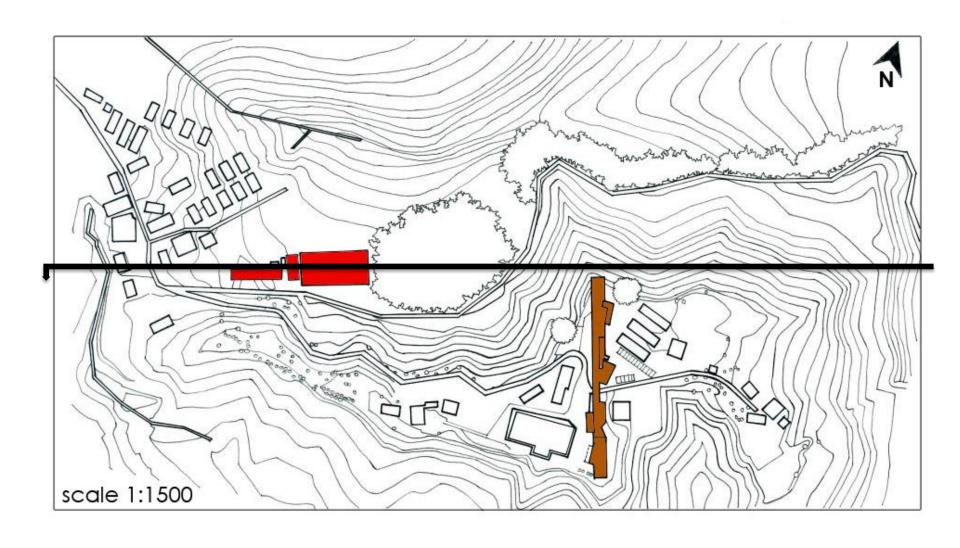
SITE PLAN

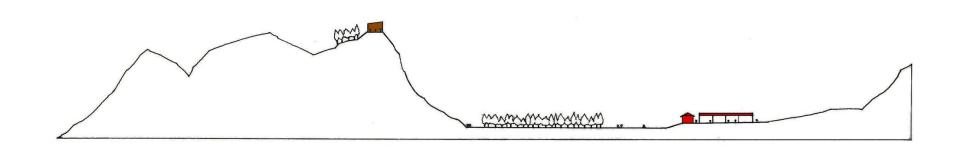


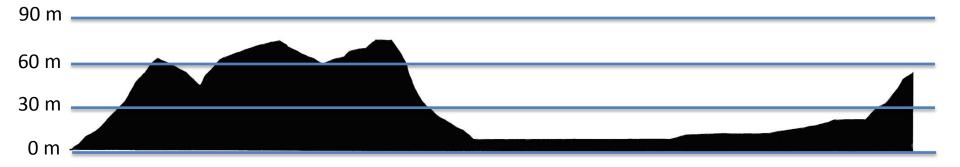


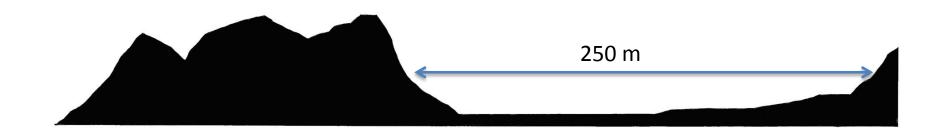
BOH Tea Plantation Visitors' Centre

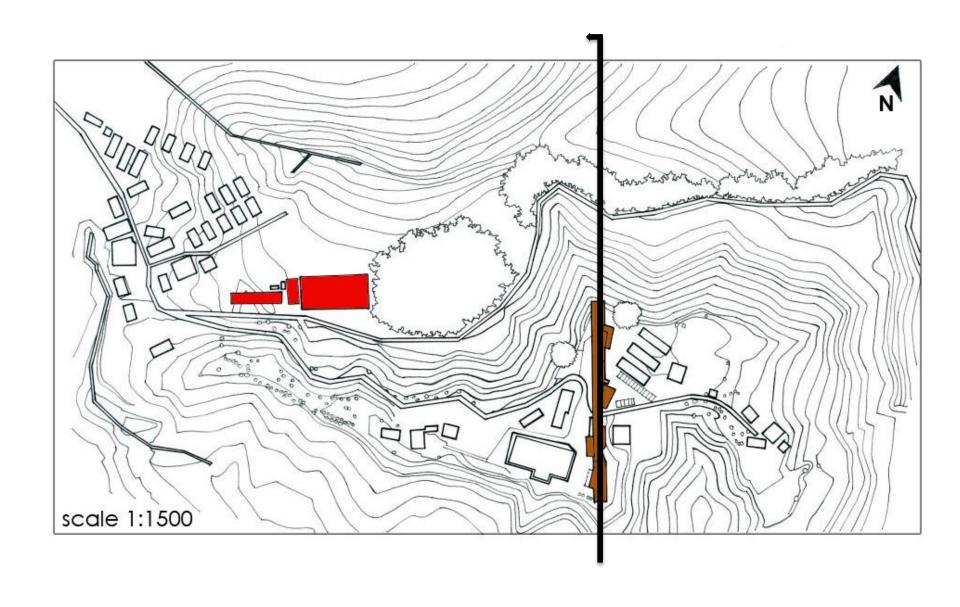


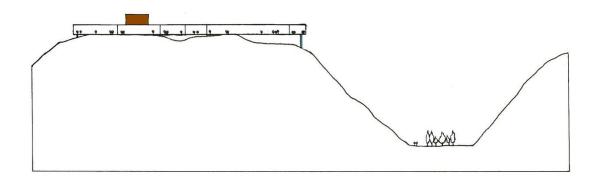


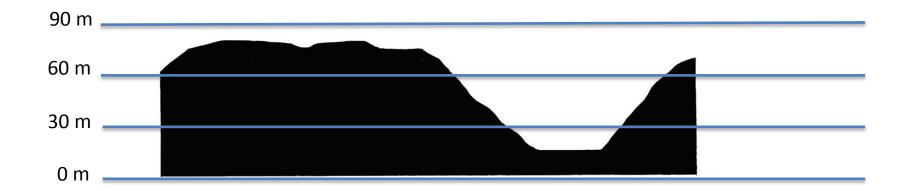


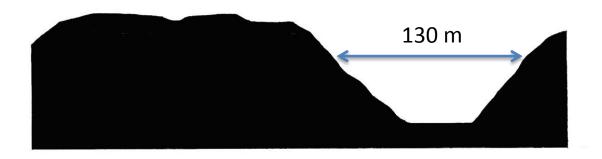


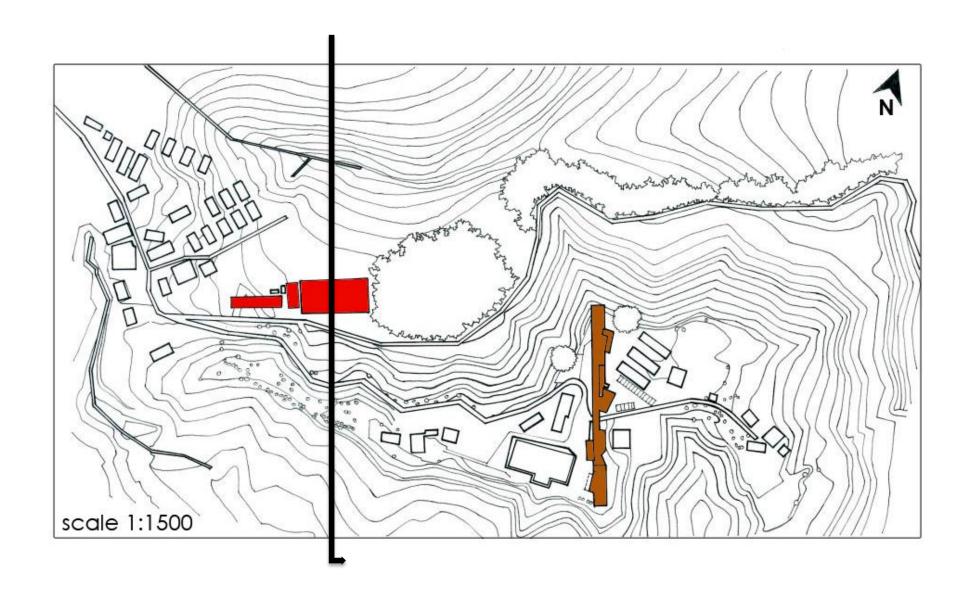


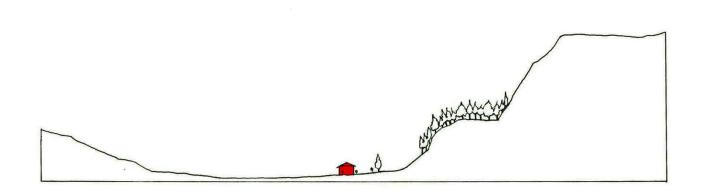




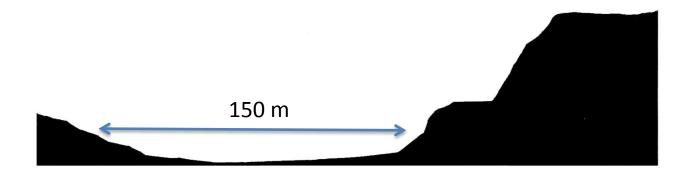












EXISTING BUILDINGS

Background & History

BOH Plantations was founded in 1929 by **J.A. Russell**, a British businessman during the British colonial era in Malaya.

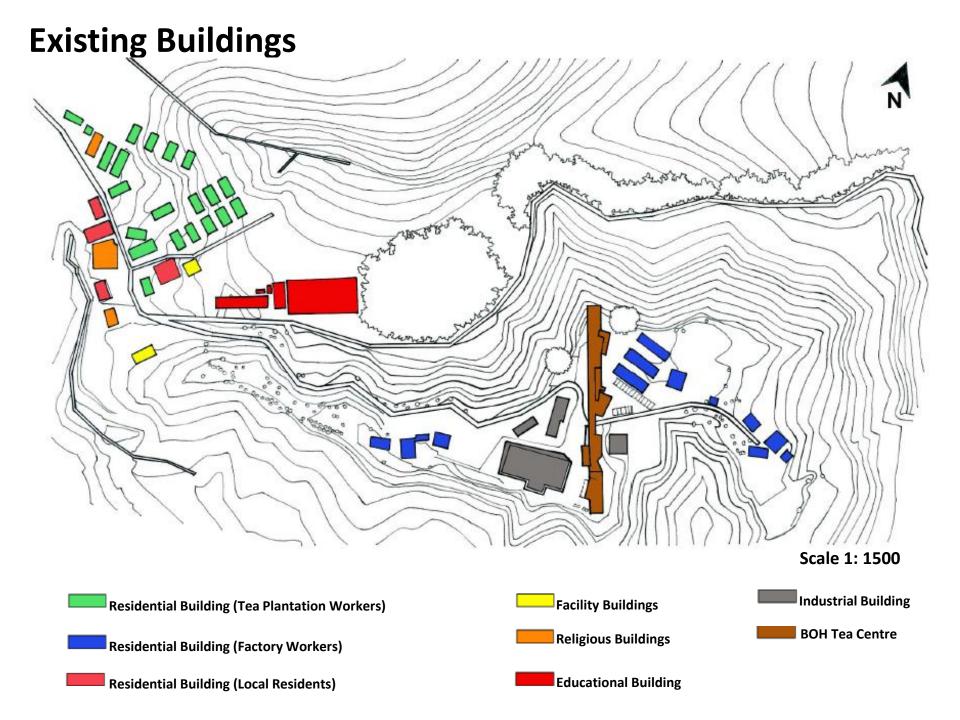
Sungai Palas Tea Plantation is the third tea garden for BOH Plantations.

The Cameron Highlands is an old British hill station.

- 1. British *bring the Indians from India* (colonial country) here and plug them into the tea industry.
- 2. Indians were *given specific jobs* according to their caste and get paid.
- 3. The British *brought over Sri Lankans (highly-educated)* than the Indians, *to supervise*.

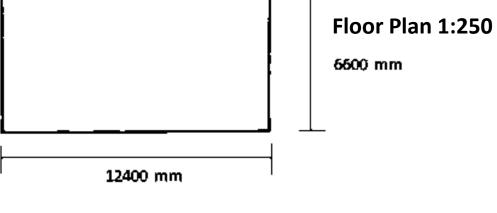
Background & History is important for **SITE ANALYSIS**:

- ❖ To understand the origin & development of tea.
- ❖ To study the **residents** of Sungai Palas.
- ❖ To clarify the **context** in Sungai Palas.
- ❖ To learn the **culture & tradition** in Sungai Palas.
- ❖ To find out how the **context, culture & tradition affect the architectural style** in Sungai Palas Tea Plantation, Cameron Highlands.

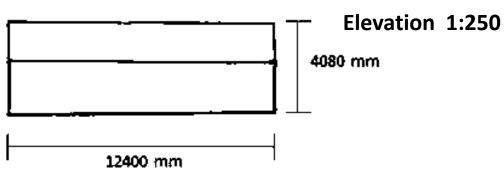


Residential Buildings (For Tea Plantation Workers)

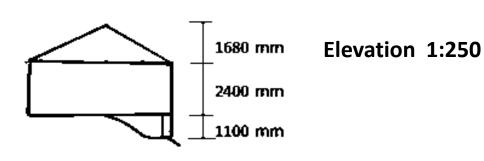






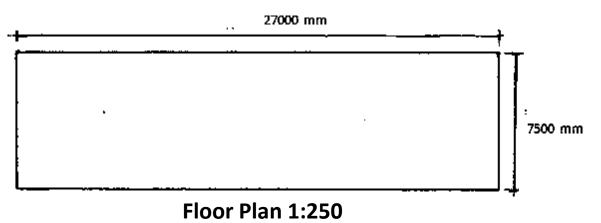




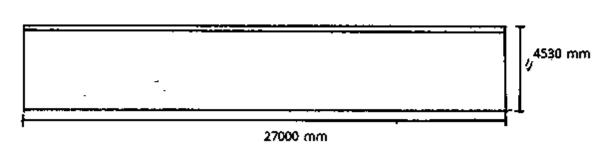


Residential Buildings (For Tea Factory Workers)

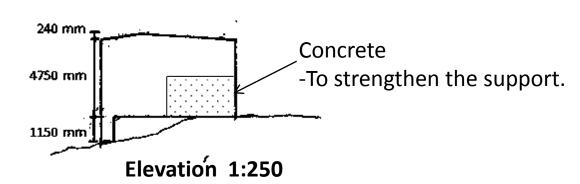












Residential Buildings (For Local Residents)



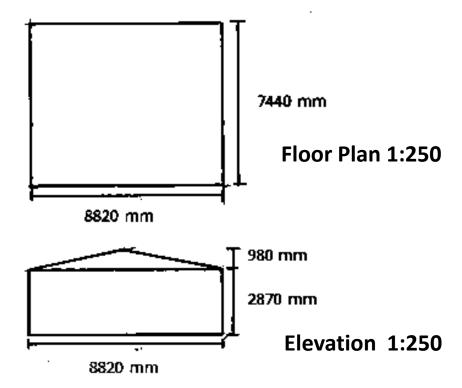




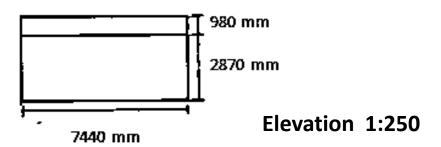


Facility Buildings (Public Toilet)





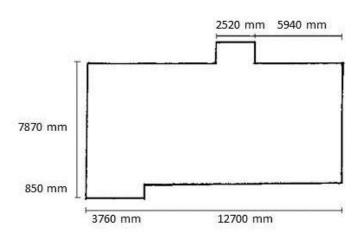




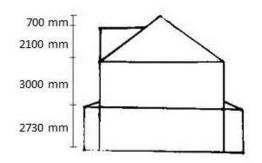
Facility Buildings (Clinic)

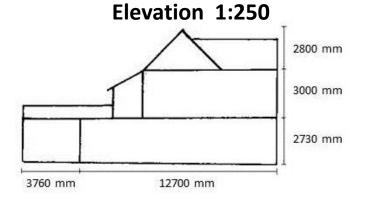






Floor Plan 1:250





Elevation 1:250

Religious Buildings





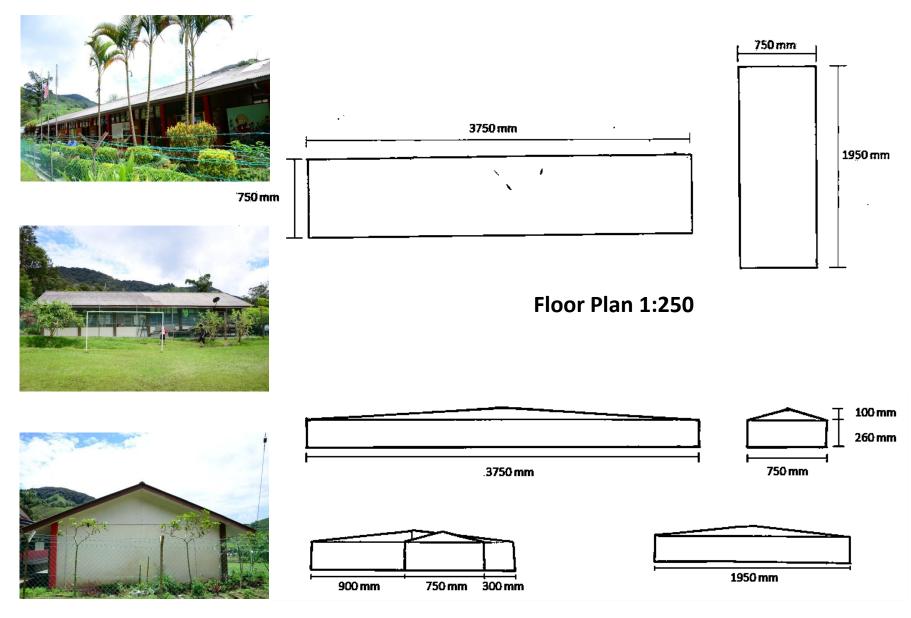


Hindu Temple

Church

Prayer (Surau)

Educational Building (SJK (T) LADANG SG. PALAS)



Elevation 1:250

Industrial Building (BOH Tea Factory)



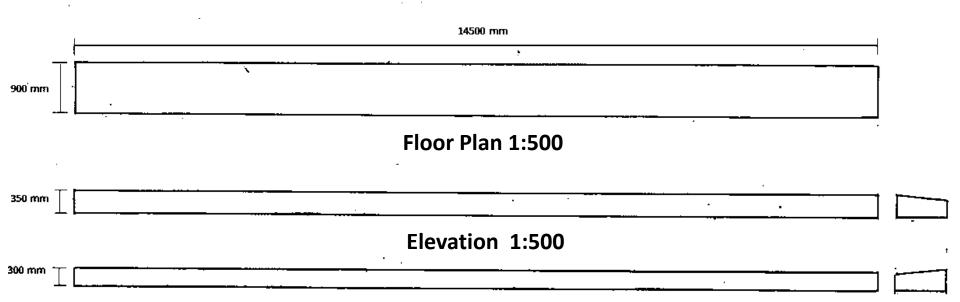
Elevation 1:250

1200 mm

1200 mm

1950 mm

BOH VISITOR CENTRE









Architectural Style

"Attap House" Style

- More in Malay Traditional Style.
- Mostly built in the early period.
- Material used basically is wood as it is more cheaper during that period.
- Eg: Residential Buildings



Modern Architecture Style

- Built lately.
- Material used are concrete & steel as they are more durable and better looking.
- Eg: Hindu Temple, Public Toilet, Factory & etc.



Uses of Colours (GREEN & BLUE)

Reason 1:

To **highlight** which are the **residential buildings** for tea workers.

Reason 2:

To classify the types of workers.

Eg: **GREEN** - Tea **Plantation** workers.

BLUE - Tea **Factory** workers.

Reason 3:

GREEN & BLUE are classified as **smooth colours**.

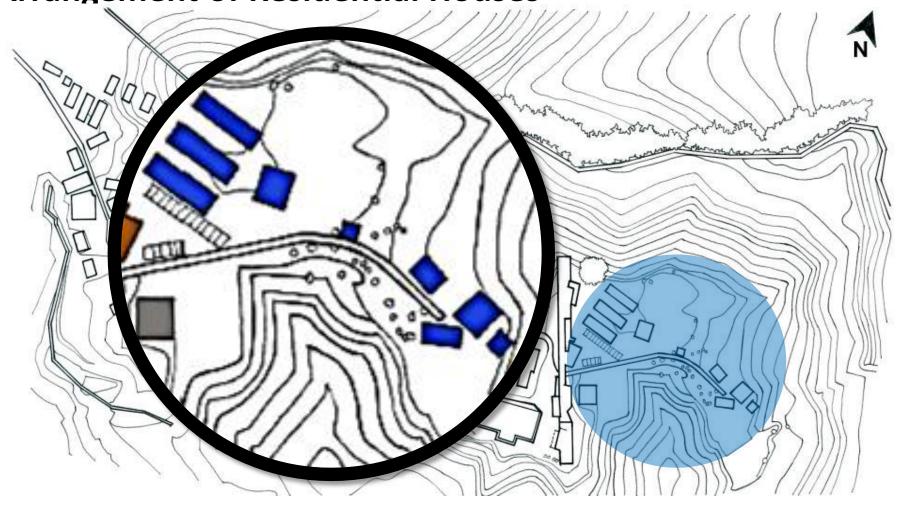
GREEN & BLUE are suit to context (Green Plantation & Blue Sky).

Arrangement of Residential Houses



1) The houses built by **following the contour**.

Arrangement of Residential Houses



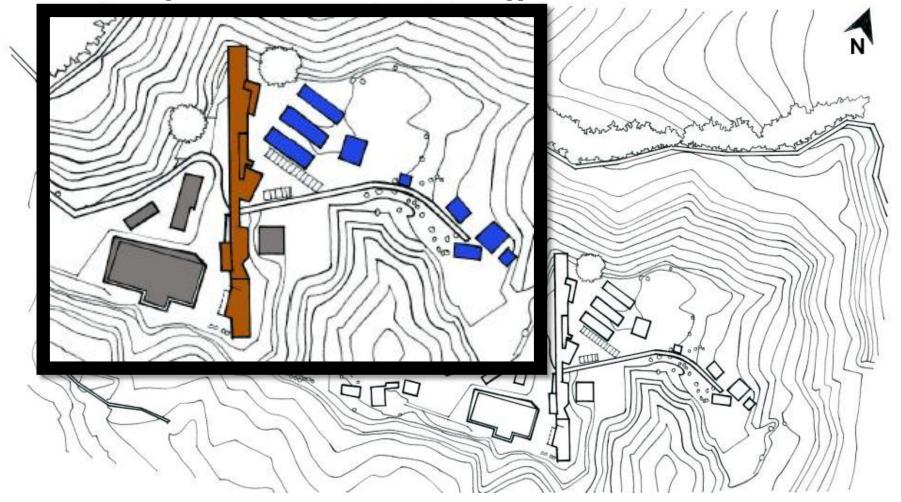
2) The houses built by **less steep area**.

Relationship between the Buildings



Residential houses (Tea Plantation Workers) is located *near to tea* plantation to ensure the freshness of the tea and can be collected by workers on time.

Relationship between the Buildings



Residential houses (Factory Workers) is located *near to factory* to ensure that all **the workers can work on time** and to **maintain the efficiency** of factory.

CIRCULATION









One way up, one way down.

Public Transport / Car

From Ee Feng Gu Bee Farm to BOH VISITOR CENTRE

- approximately 3.5km to the BOH VISITOR CENTRE.

Suggestion:

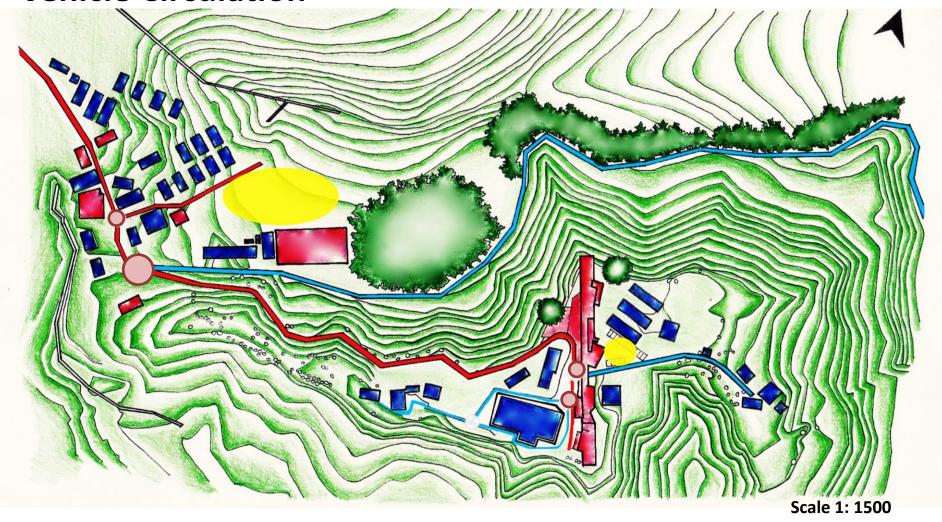
Continue to take public transport.

Reason:

- a) There is no direction sign board on the split road
- b) The road is too narrow and dangerous to drive
- c) Not suitable for walking and cycling
- d) Preferably the experienced ones to serve
- e) Reduce the number of vehicles to maintain the qualities of tea plants.



Vehicle Circulation





Vehicle Circulation (Primary Circulation)

- 1. Both Public Transports and cars will drop off the passengers in front of the BOH VISITOR CENTRE.
- 2. Public Car Park
 - -The cars have to travel down to that particular area to park their car.
- 3. Private Car Park-It is located beside Boh Tea Centre.







Vehicle Circulation (Secondary Circulation)

- 1. Tractor's tire tracks can be found.
- 2. Tea Farm's workers are packing the tea leaves into bags and roll down.
- 3. Tractors collect the bags of tea leaves.

Analysis:

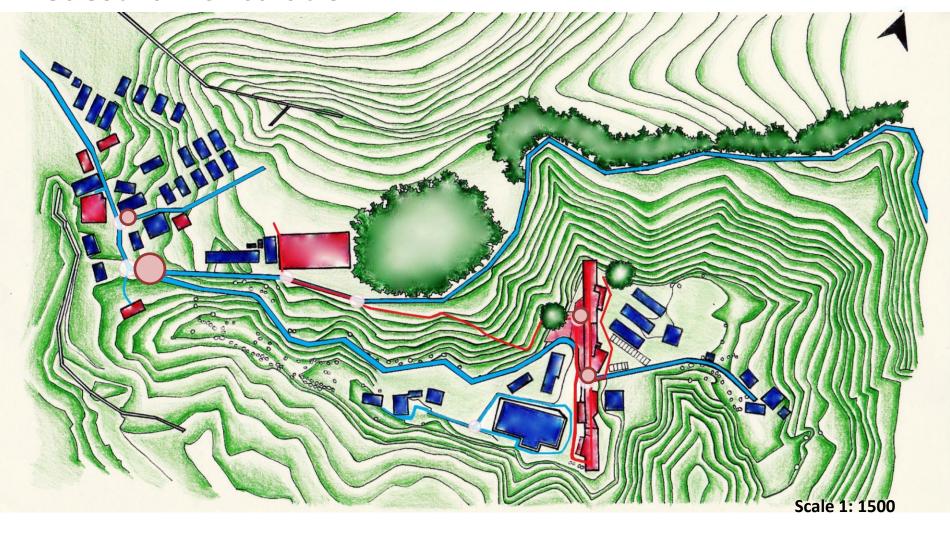
- This place is for the tractor to transport the tea leaves.
- Private.
- Long and no ending walkway.
- No visitors but only tea plantation workers are walking around this area.







Pedestrian Circulation





Pedestrian Circulation (Primary Circulation)

Road condition:

- 1. The walkway is too sloped.
- 2. The steps are not consistently even.
- The handrails are not extended until the end of the walkway.
- 4. Therefore, it is not suitable for children and old people to walk.

There is an alternative way that more people chose to walk through, that is the **Secondary Circulation**.







Pedestrian Circulation (Secondary Circulation)

Road condition:

- 1. The road is too narrow.
- 2. It is not suitable for people.
- 3. Heavy transportation passes by frequently.

Suggestion:

- Improve the primary circulation's step systems and condition.
- Extend the handrails along the whole walkway.
- Make the steps more consistent and stable.
- Build a proper drop-off area for the convenience of visitors.





Non-structure Circulation

Tea Bushes:

1. Distance between two rows of tea plants is not favourable to walk. The road condition is even worse if it rains.

2. No visitors are walking through the tea bushes except for photos taking.

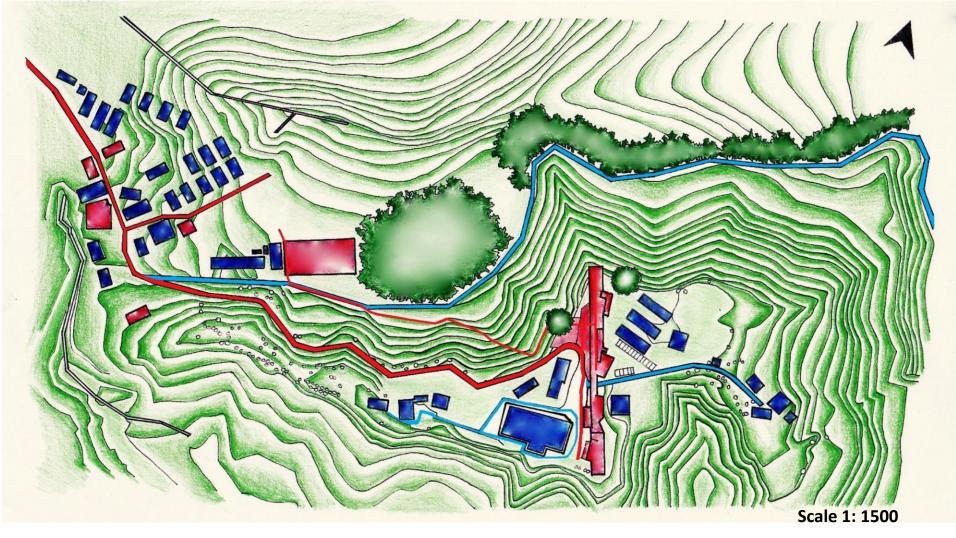


Field:

1. Most of the people choose to walk through the football field to reach the opposite side.



Public & Private Circulation





Public & Private Circulation

Public Circulation:

Is formed by visitors who majorly walk directly and around BOH VISITOR CENTRE.

Private Circulation:

- Is formed by the local residents.
- They are mostly the workers of tea plantation.
- There are all open spaces which have no restrictions for visitors to walk around.

Circulation inside BOH TEA CENTRE



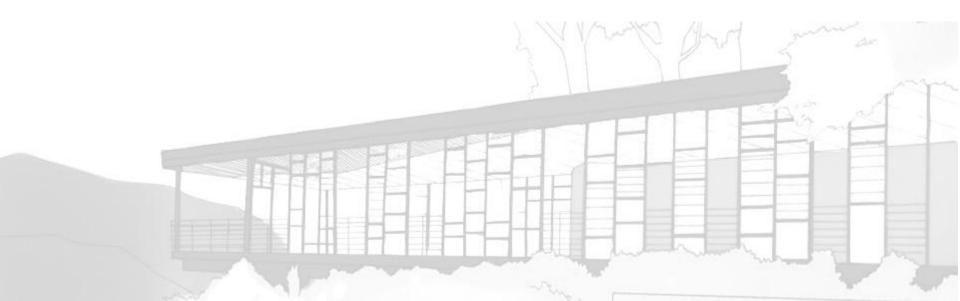
Emergency Assembly Point



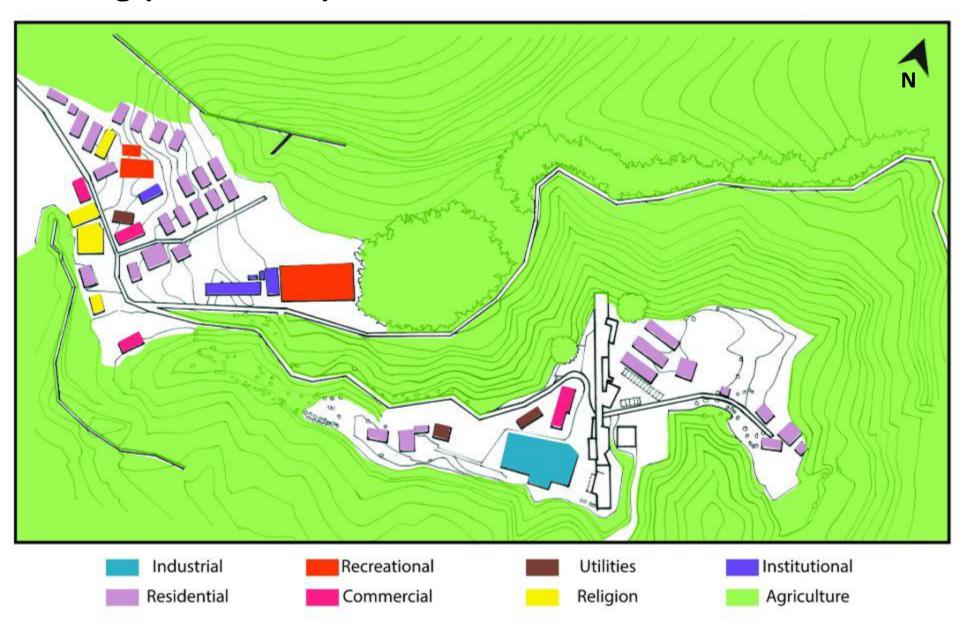
Emergency Exit



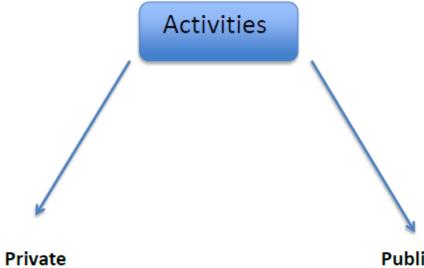
ACTIVITIES



Zoning (Whole Site)



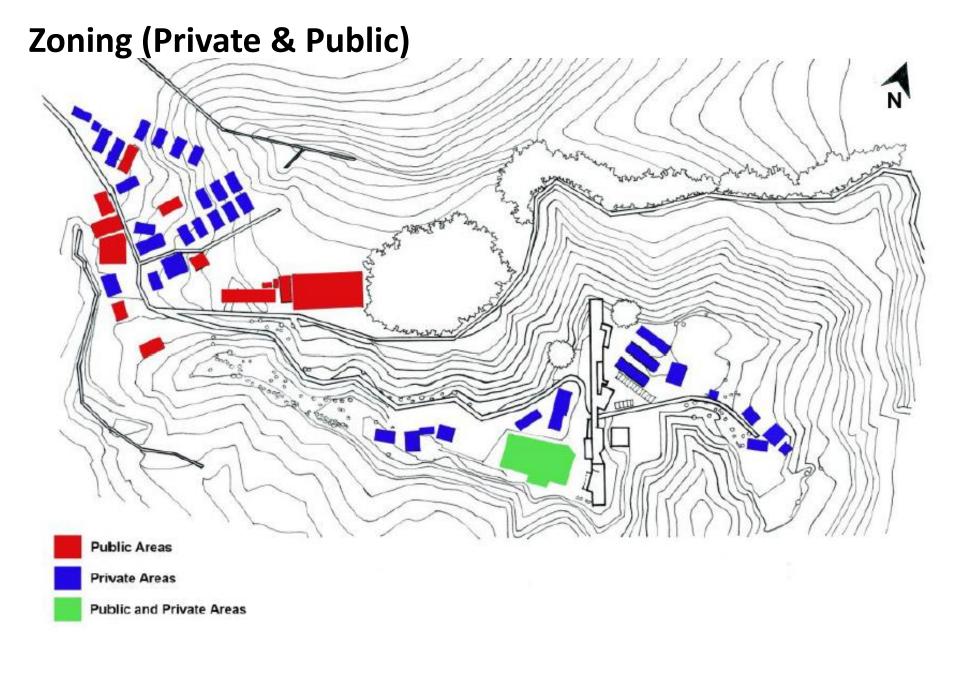
Zoning (Private & Public)



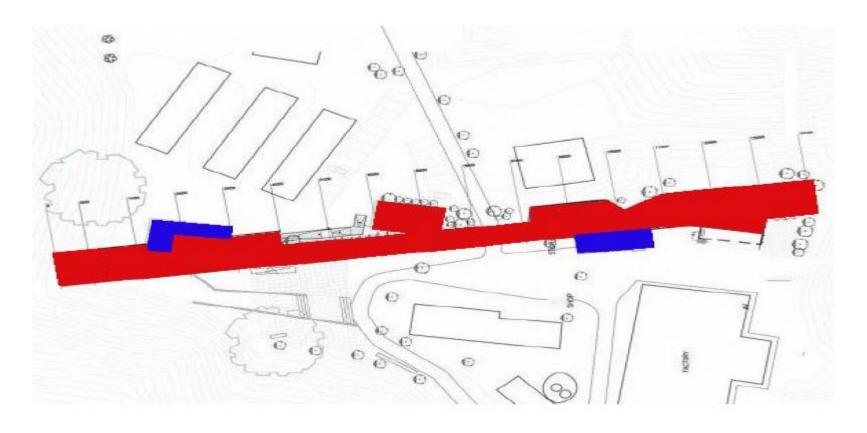
- Areas only accessible to the workers of the plantation.
- •This measure is to prevent the any harm or interfere with the activities of the workers.

Public

- Areas that are fully accessible to the public.
- ·Mostly commercial ares.



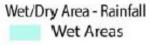
Zoning (Private & Public)

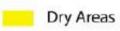




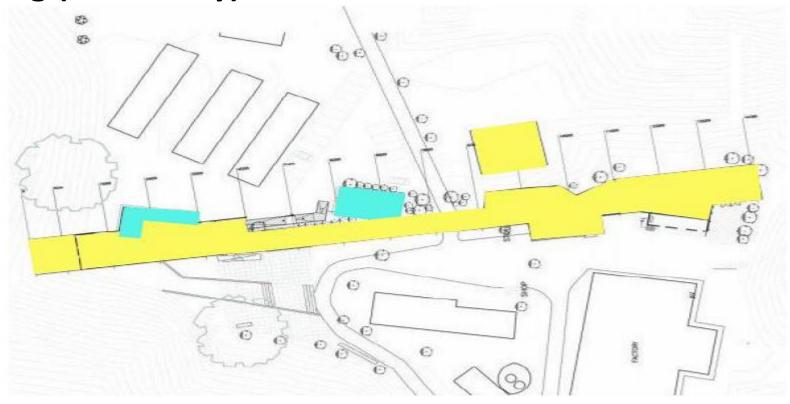
Zoning (Wet & Dry)







Zoning (Wet & Dry)

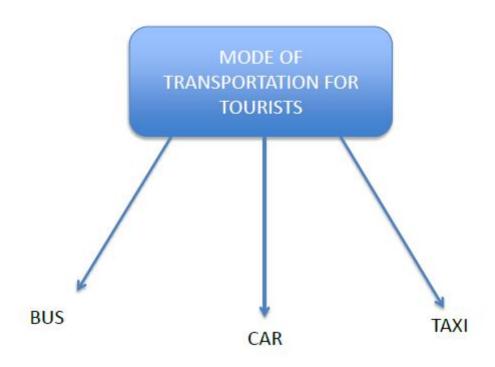


Wet/Dry Area - Space Usage

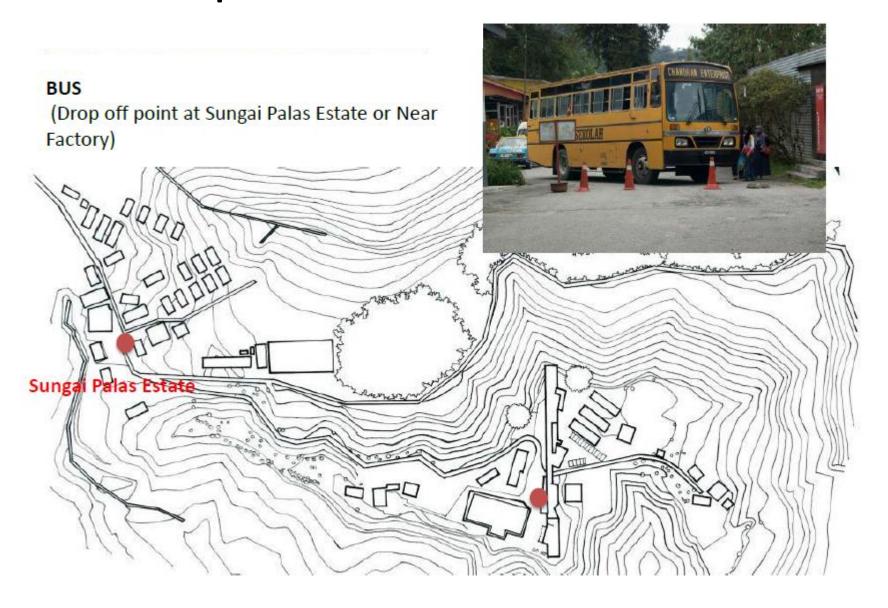


Dry Areas (cafeteria, gallery,retail,storage, AV room and exhibition area)

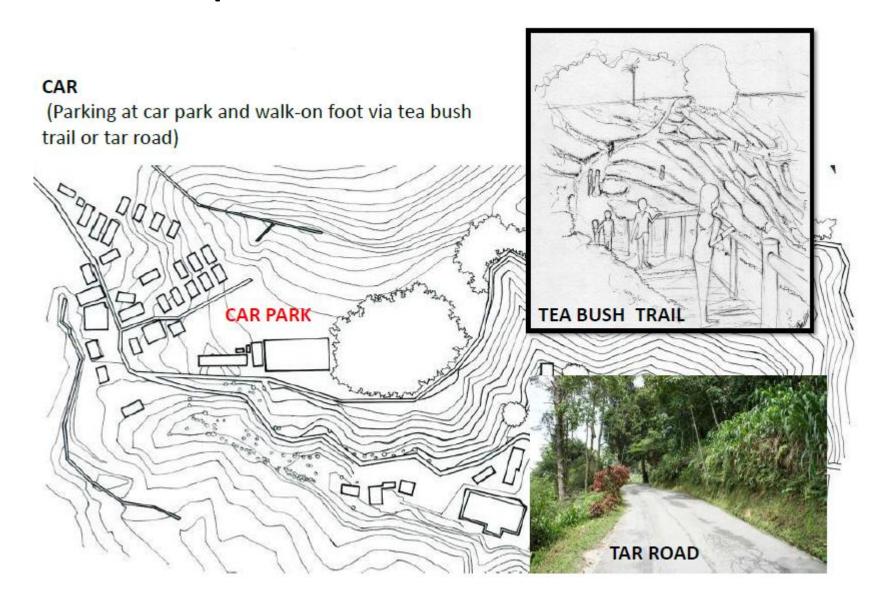
Mode of Transportation for Tourists



Mode of Transportation for Tourists



Mode of Transportation for Tourists



Activities In BOH VISITOR CENTRE EXHIBITION Tourists looking around at info boards and used machinery OUTDOOR Pleparation of food SHOP Purchasing souvenirs EXHIBITION CAFE GALLERY nformation boards STORE **ENTRANCE** Tourists waiting for factory tour 0 0

TEA APPRECIATION TOUR

SCHEDULE:

9.00a.m.-11.00a.m. 1.00a.m-3.00p.m

DURATION: 45min to 1 hour

PRICE: ADULT (RM35)
CHILDREN (FREE)



FACTORY TOUR

FEE: FREE

EVERY HALF AN HOUR



TOURING IN VISITOR CENTRE

Exhibit boards in the visitor centre provide info regarding BOH tea



PURCHASING SOUVENIRS AT SHOP

There is also a high density of tourists at the shop to purchase BOH products that are cheaper than retail price.



Visitors paying for products

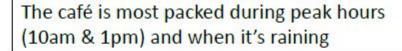


Free tea samples



Visitors choosing products

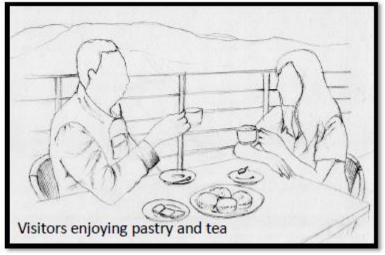
EATING & DRINKING AT CAFE











PHOTOGRAPHY

Mainly at 3 locations



Outdoor deck of cafe



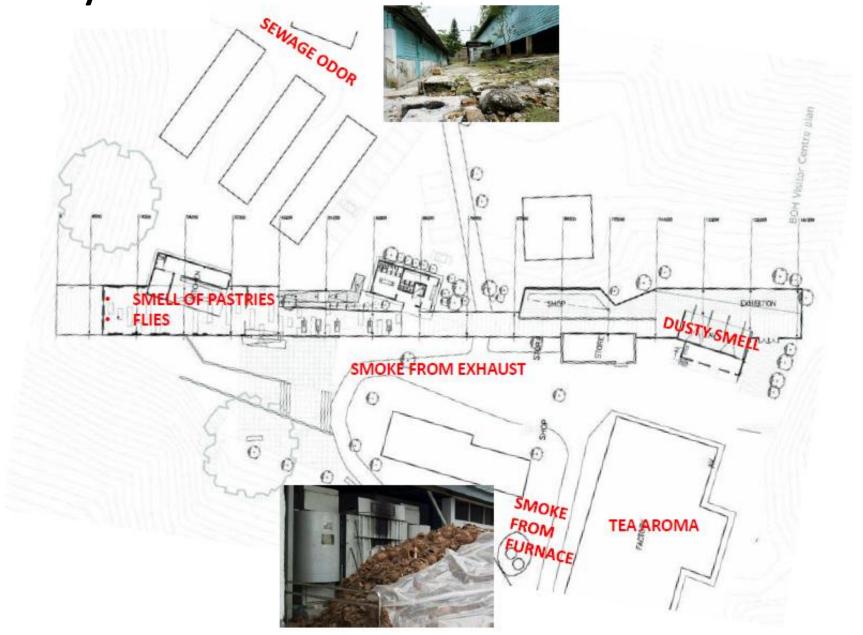
Tea bush trail



'BOH' signage

Sensory Factors Smoke from Flies at tea bush

Sensory Factors



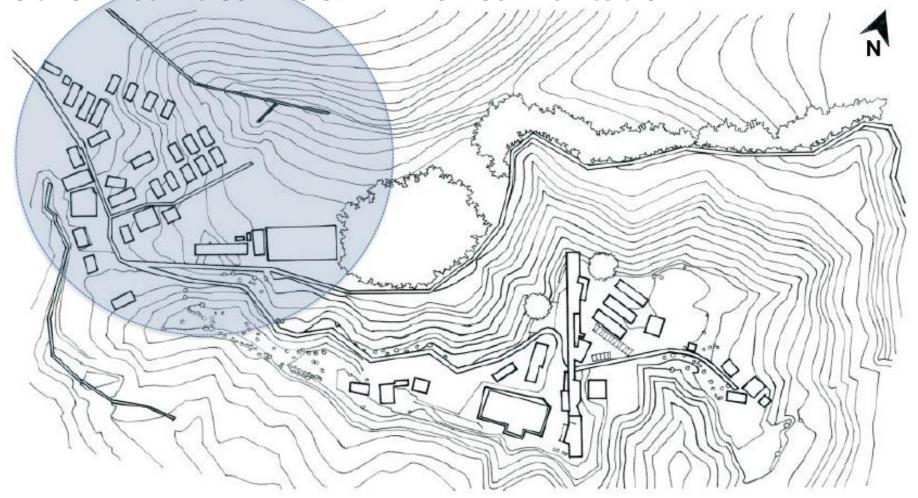
Sensory Factors

Flies?

- House Flies (Musaca domestica) are common at Sungai Palas Tea Plantation.
- Highest density at 20-25 degree Celsius
- Breed in the organic fertilizer
- High density at cafeteria (feeding) and tea bushes (breeding)



Other Activities in SG. PALAS Tea Plantation



Other Activities in SG. PALAS Tea Plantation

The buildings at Sungai Palas Estate are **small scaled** to satisfy the needs of the workers. (approx. 142)

EDUCATIONAL



 The only school at the estate for the worker's children



Other Activities in SG. PALAS Tea Plantation **HEALTH**

Clinic for welfare of workers and their families



COMMERCIAL



Grocery shop



Day care centre

Other Activities in SG. PALAS Tea Plantation RELIGIOUS





Hinduism (Main)







Islam

Other Activities in SG. PALAS Tea Plantation RECREATIONAL



Playground



Badminton court



Computer centre

Other Activities in SG. PALAS Tea Plantation LOCAL COMMUNITY



Divisional Office

Other Activities in SG. PALAS Tea Plantation



1. CULTIVATION

Young tea plants are cultivated and grown in a nursery and are later transplanted to site after 3 years.



2. PRUNING

- •The tea bushes are pruned once every 3 years to all new shoots to grow.
- ·Bushes are pruned to the height of 3 feet(plucking table).



5. TRANSPORTATION

- · After harvesting the leaves are immediately transported via lorries to the factory
- Higher places evacuation line

Growing Tea Camellia Sinensis





3. FERTILIZATION & PESTICIDES

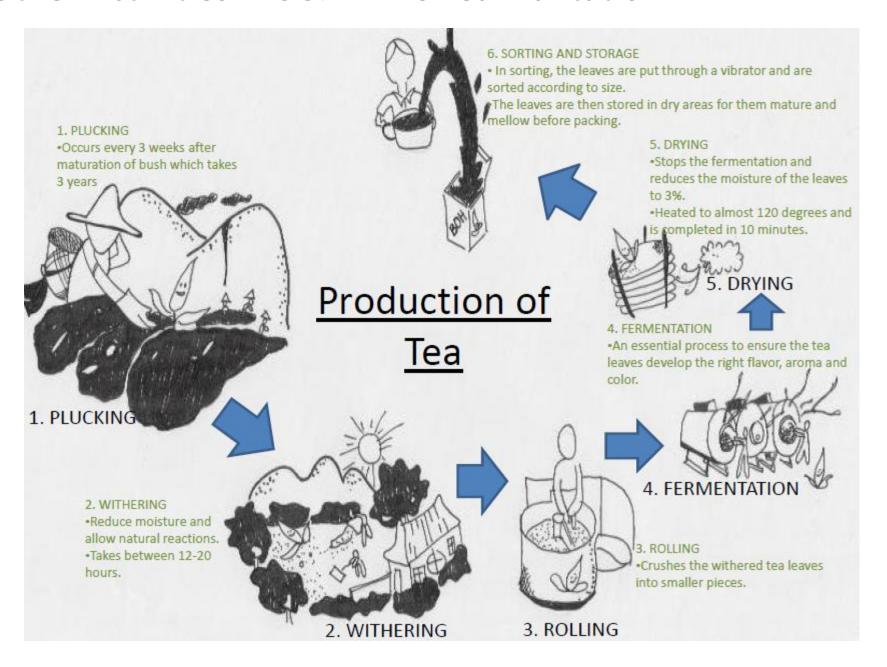
 Carried out via airplanes. (due to huge are to cover & even spread out) Done throughout the year.



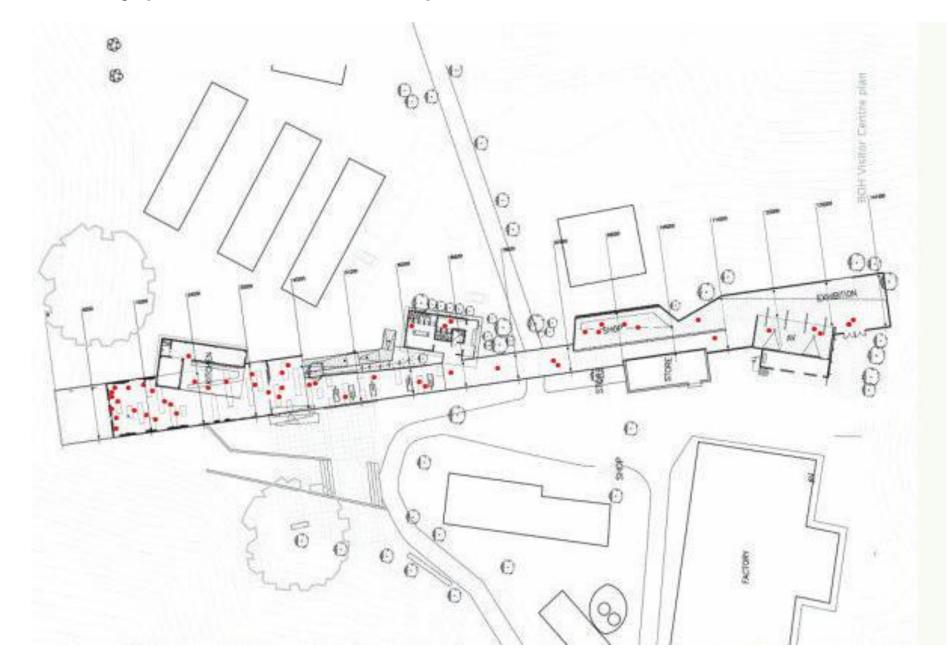
- Done every 3 weeks.
- •2 methods (machinery/Hand picked)
- Normally collect 1 shoot with 2 buds)



Other Activities in SG. PALAS Tea Plantation



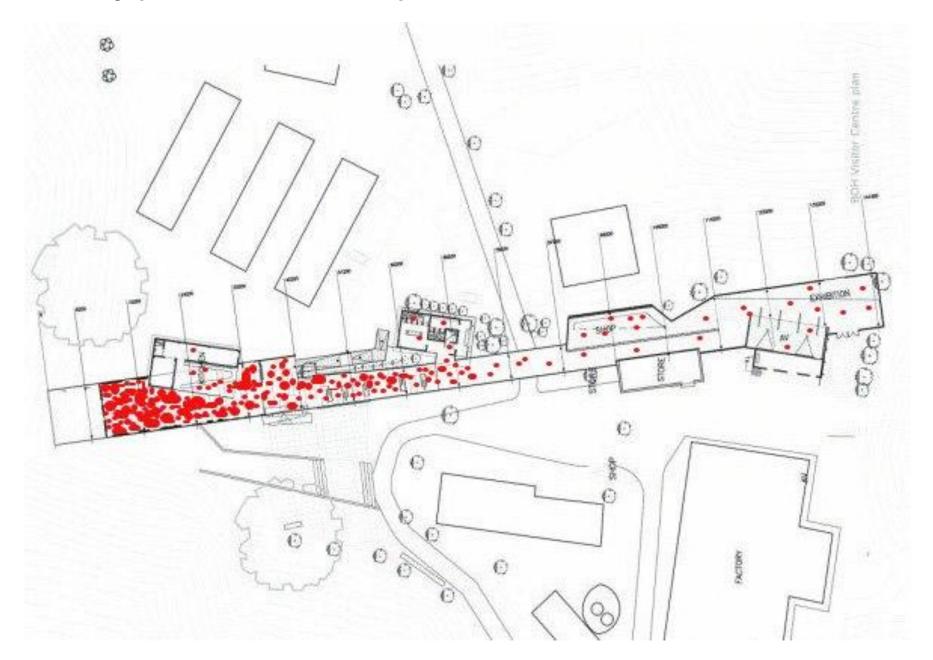
Density (MORNING 11 AM)



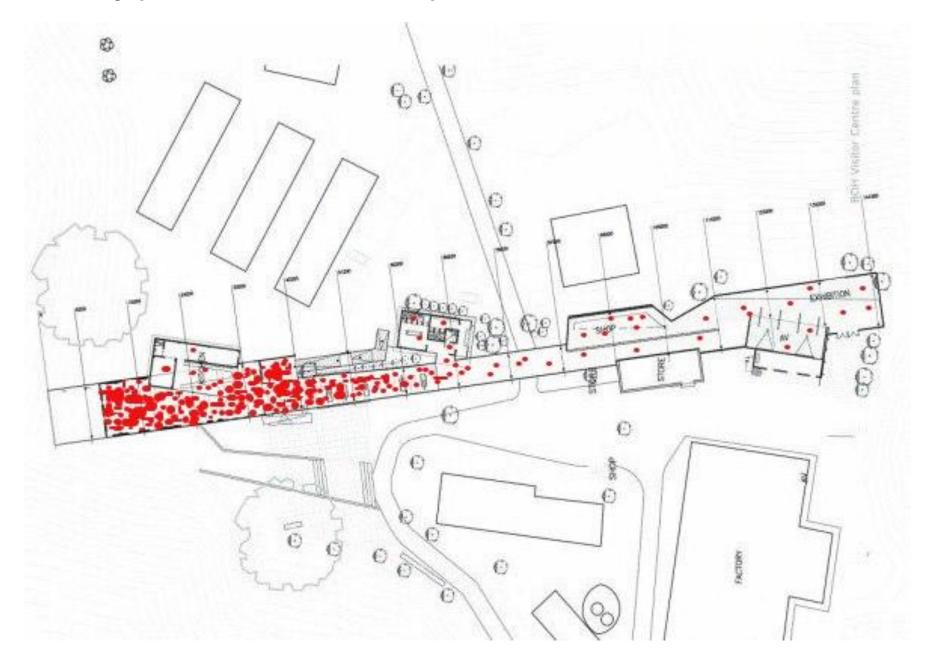
Density (AFTERNOON 1-2 PM)

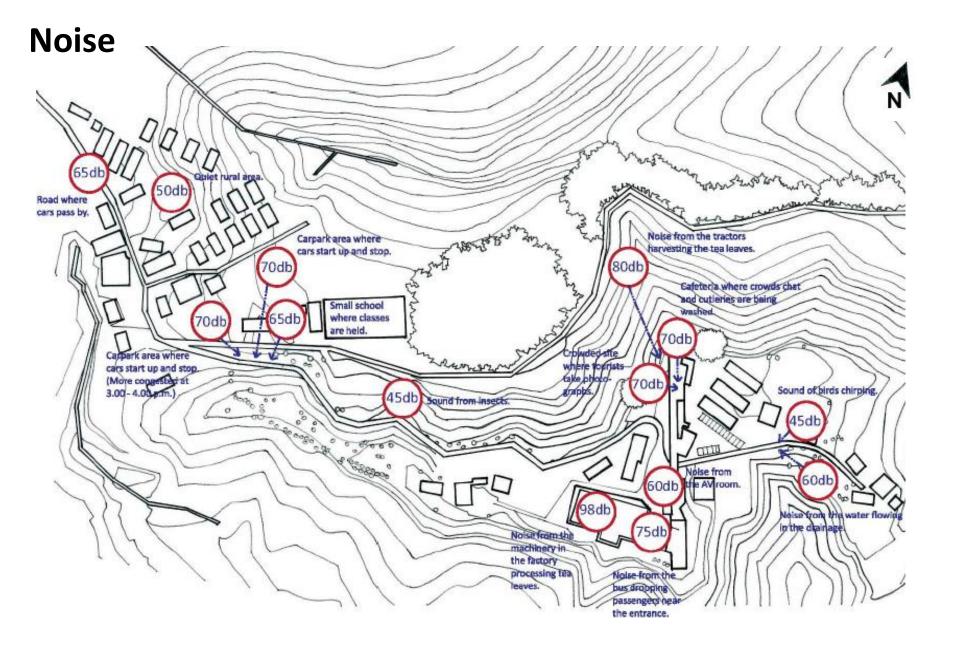


Density (EVENING 4-5PM)



Density (DURING RAINFALL)



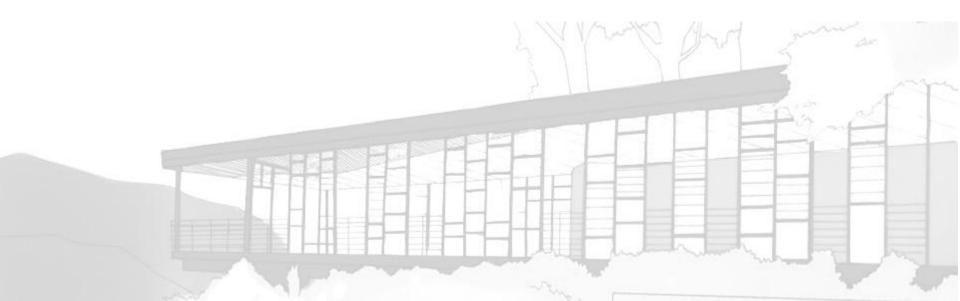


Noise

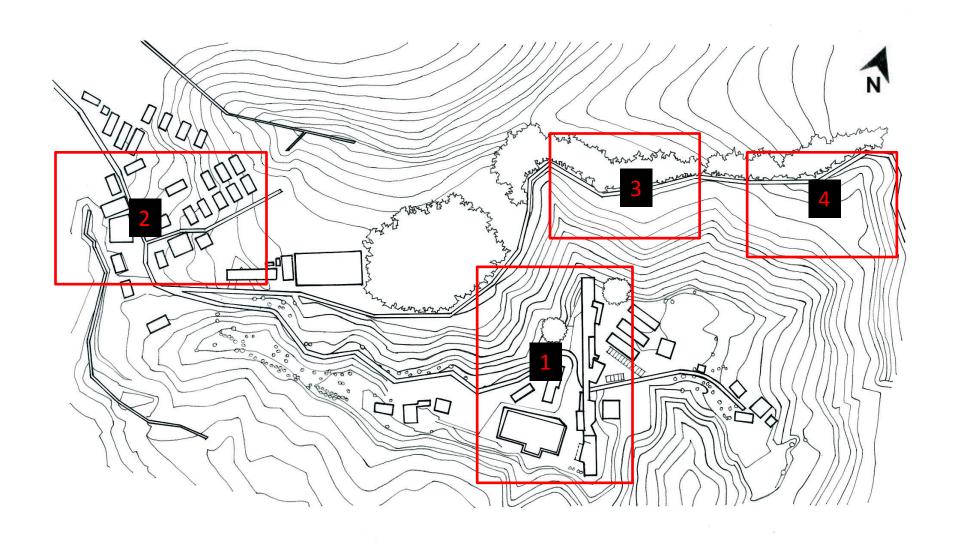
Analysis: How The Noise Affects Building Placement

- The BOH Tea Centre is situated high above the tea plantation, providing not only view but also to distance the building from the noise of the machinery down at the plantation.
- The Factory, the bus stop and the entrance are all situated on the opposite side of the cafeteria because they wanted the patrons to enjoy their tea in peace and enjoy the view. (Number 19, 20, 21)
- School is situated at the end of the village and far away from religious temples to prevent the noise of cars and students from disturbing the peace. (School No. 06)
- The entire BOH Tea Centre is also a good distance away from the village to avoid noise from traffic.
- Drainage/Reservoir at one end of the village. With traffic going over the drainage causing a lot of noise. (Drainage Pipe No.03) (Reservoir No. 02)

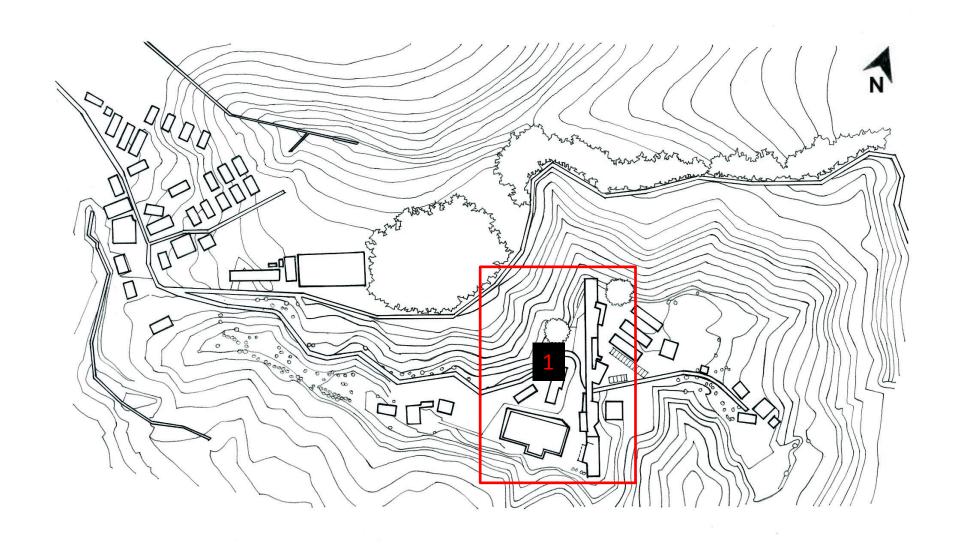
VIEW



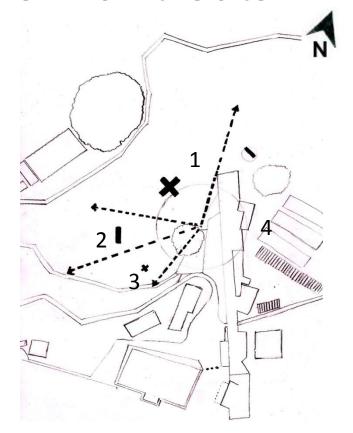
Site Plan

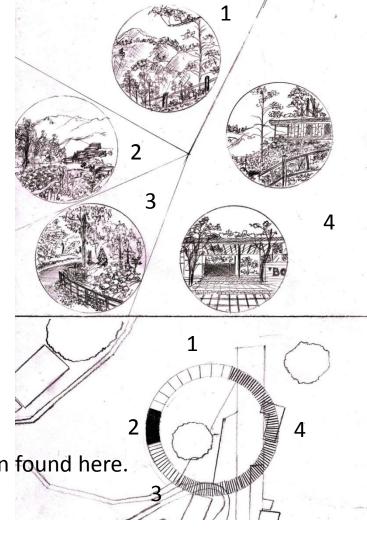


Area 1: Main Entrance



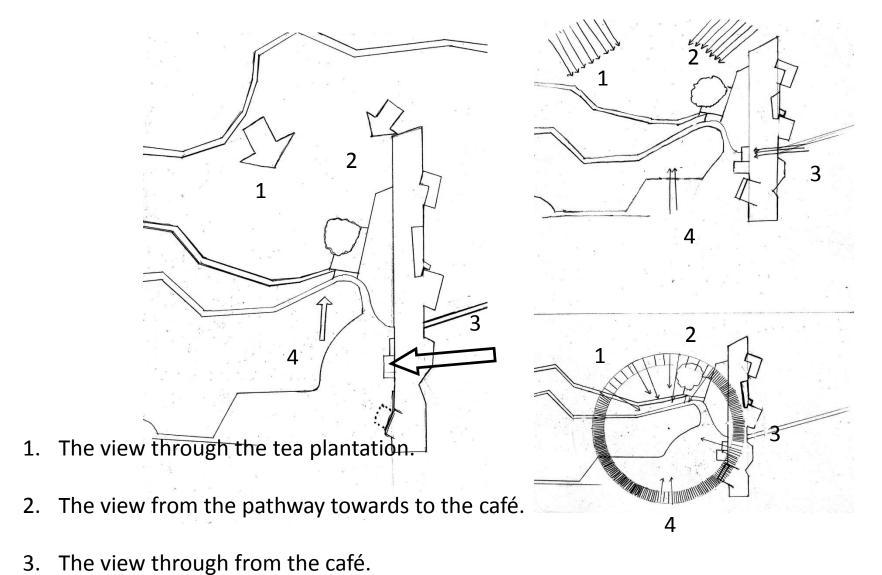
View from the site





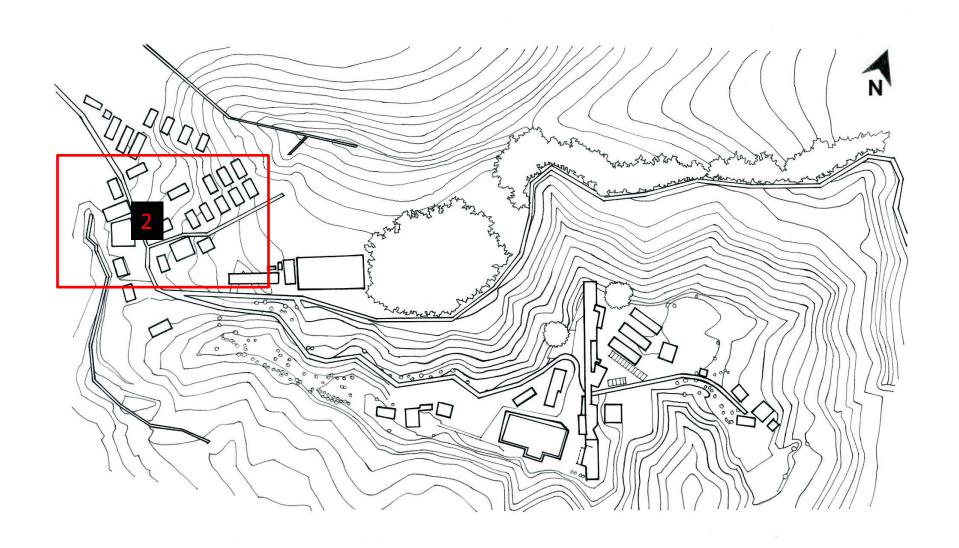
- 1. The best view of the tea plantation. No any distraction found here.
- 2. Construction and car park is very distracting.
- 3. View from the small road and some tea plantation looks very calm.
- 4. Crowded situation in the BOH's tea plantation café causes a messed view.

View into the site

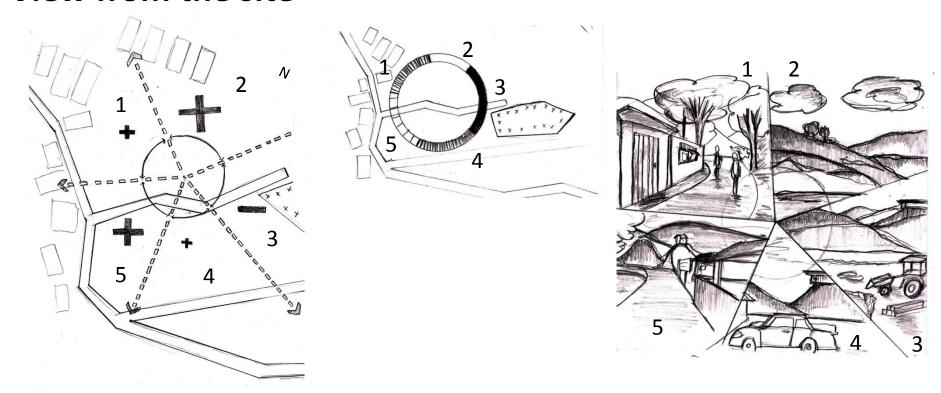


- 3. The view through from the care.
- 4. The view from the road towards the old factory.

Area 2: Settlement – Foothill of the tea house

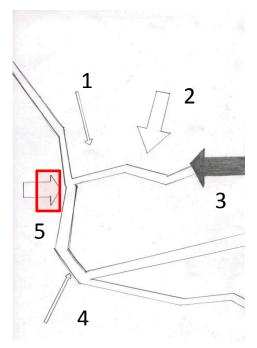


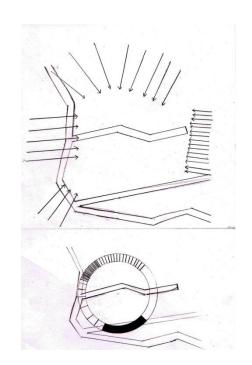
View from the site



- 1. A good view towards the mountains though it is blocked partly by trees.
- 2. A perfect view towards the plantations with no distractions.
- 3. Though the tea house occupies the view, the construction site ruins the view.
- 4. The view of the tea house through the car park.
- 5. From this position, a tudor like house can be spotted from the reigns of mountains.

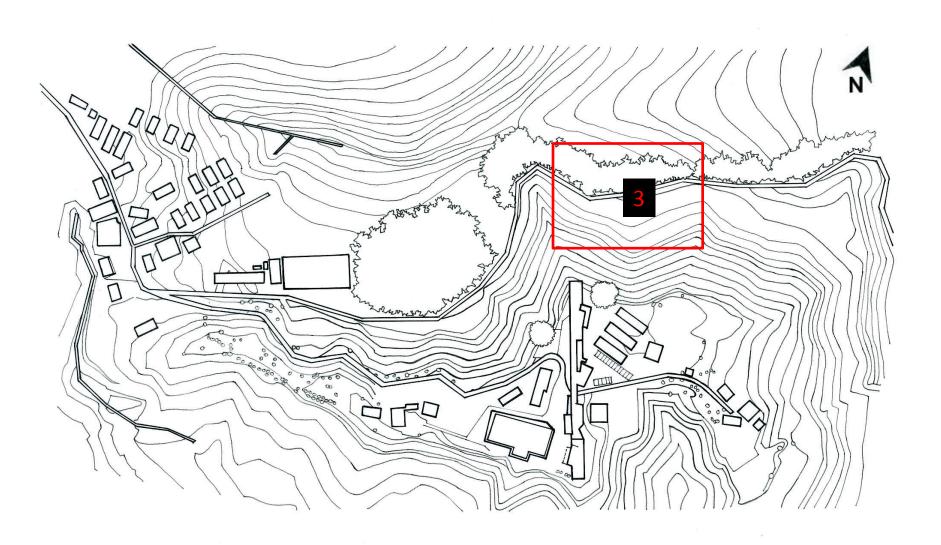
View into the site



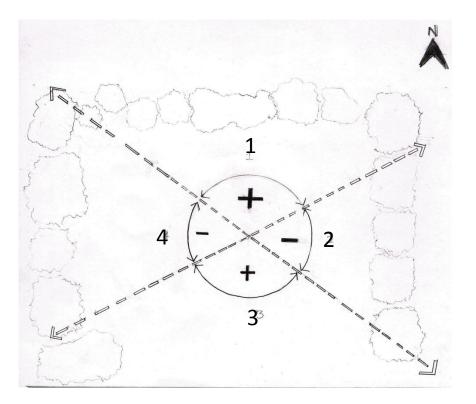


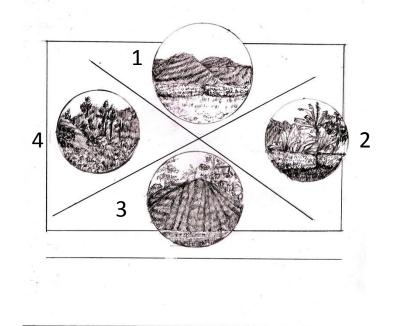
- 1. The view from the road leading to the foothill of Sungai Palas. Partly distracted by trees.
- 2. No distractions from the peaks of the tea plantations around.
- 3. A good clear view from the tea house café balcony, but however negatively impacted from car parks and construction site.
- The view of the settlement if looked from a tudor house and the hills around it.
- Another view from the summer's tudor house on the peak of the mountains behind the only Indian temple in the area

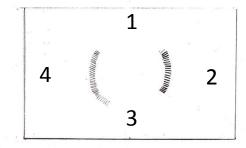
Area 3: Foothill of the plantations



View from the site

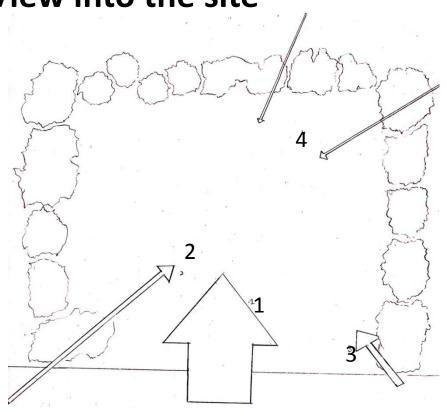


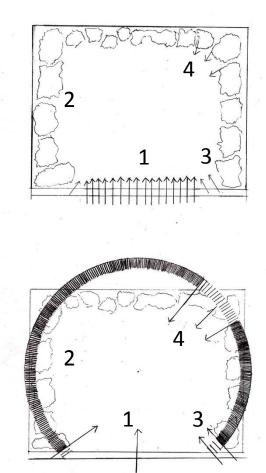




- 1. Excellent view of tea plantation.
- 2. Bushes and banana trees blocking the views to the path.
- 3. View of the road and the adjacent tea plantation. The tea visitor centre also can be seen from a low angle.
- 4. The random orientation of trees makes the view messy and unorganized.

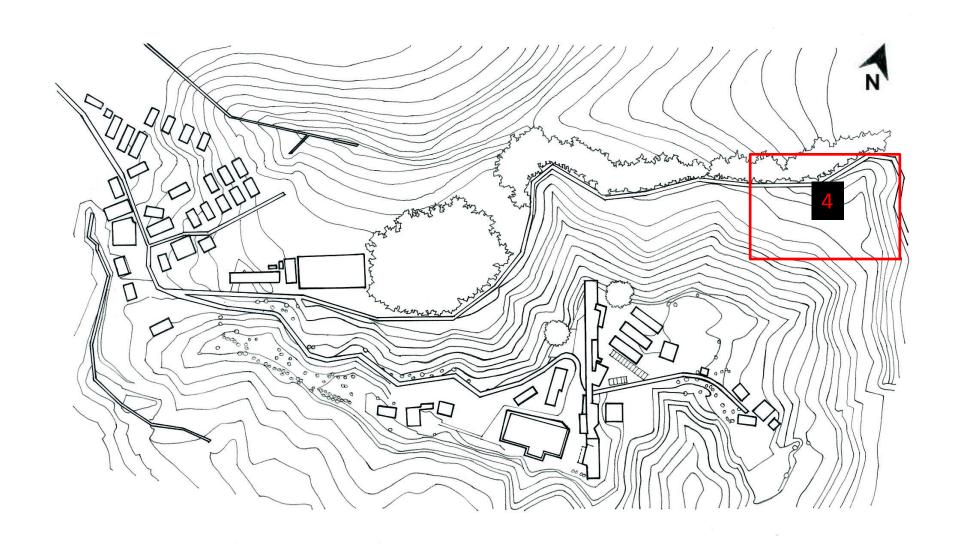
View into the site



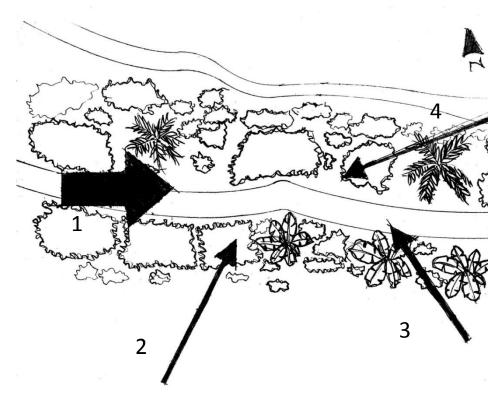


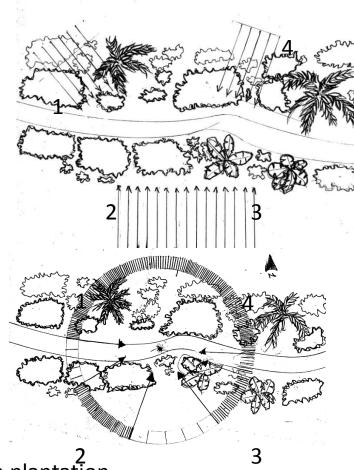
- 1. View from the main road directly approaching.
- 2. A bird's eye view from the tea visitor centre.
- 3. View from the road which is partly blocked by trees and bushes.
- 4. View from top of the hill.

Area 4: Dirt Path Through the Plantations



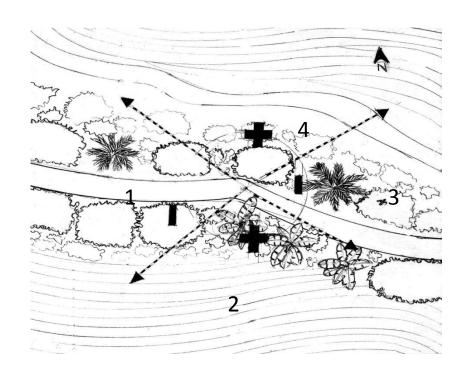
View from the site

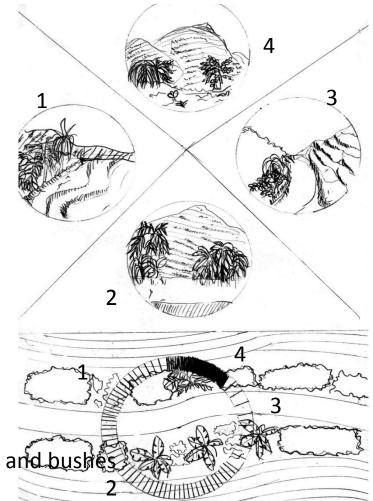




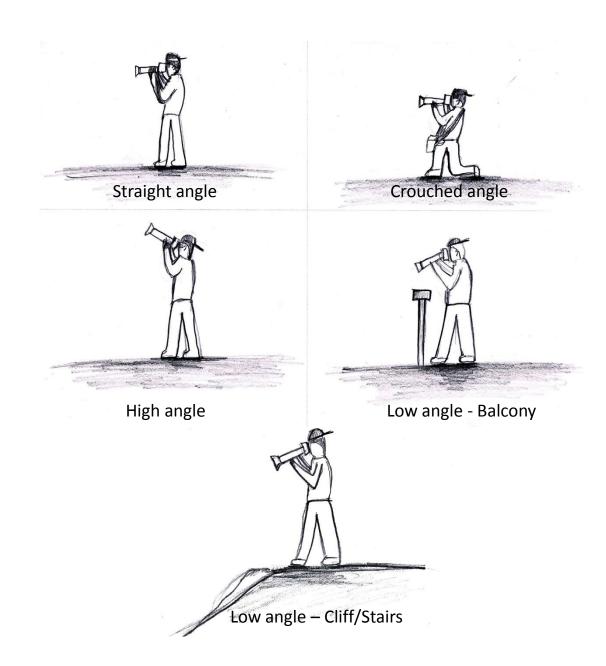
- 1. View of road heading in, not much obstacles
- 2. Bushes and banana trees blocking the views to the tea plantation
- 3. View towards the settlement although being blocked by several bushes.
- 4. Bushes and trees fairly obstructing but the view towards the site is clear.

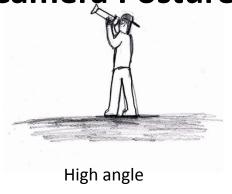
View into the site





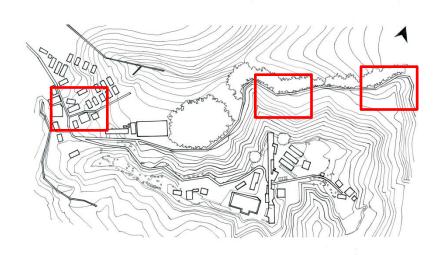
- 1. View of road heading in, partially distracted by trees and bushes
- 2. View of the site and nice contour of the tea plantation
- 3. View of road heading to the site
- 4. Excellent view of tea plantation



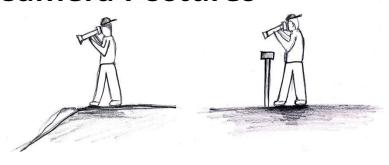




- Usually taken at zones 2,3 and 4.
- Altitude: 5000 ft 5025ft above sea level

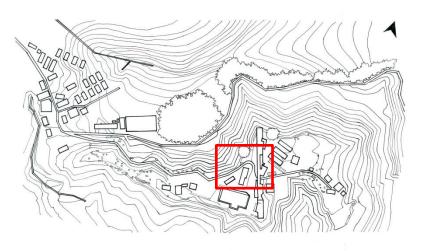






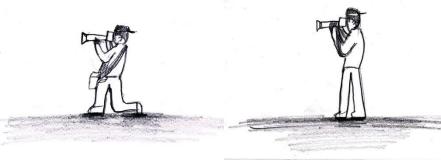
Low angle

- Usually taken at zone 1.
- Altitude: 5035- 5050ft above sea level



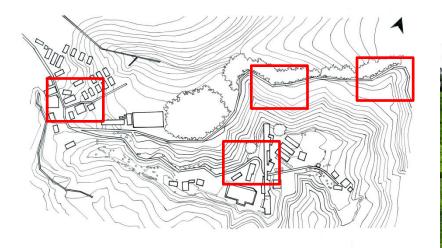






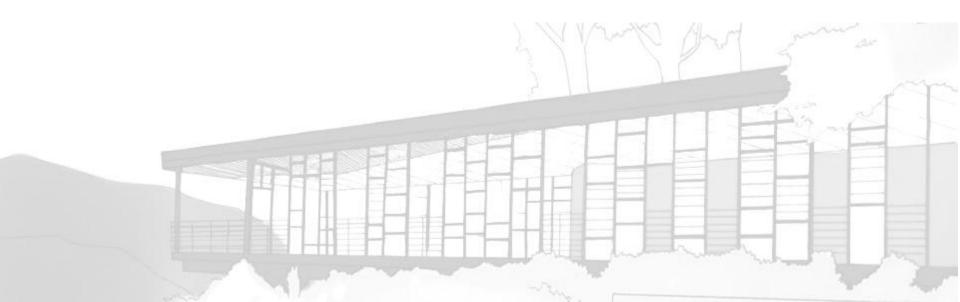
Straight and crouched angle

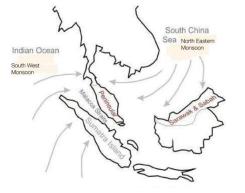
- Suitable on all zones (1-4)
- Altitude: 5000- 5050ft above sea level



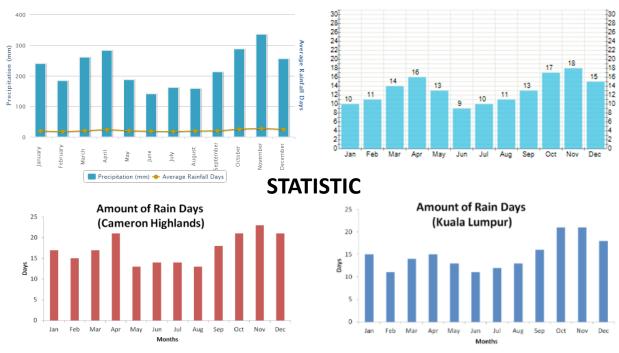


CLIMATIC





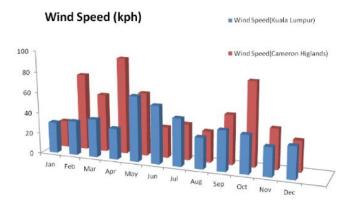
The weather in Malaysia is characterized by two monsoon which are Southwest monsoon from late May to September and northeast monsoon from November to March. The northeast monsoon brings heavy rainfall particularly to the east coast states of peninsular Malaysia whereas southwest monsoon normally signifies relatively drier period.



Precipitation is any product of the condensation of atmospheric water vapor that falls under gravity. The water vapor suspense in the air and does not condense sufficiently to precipitate creates fog and mist.

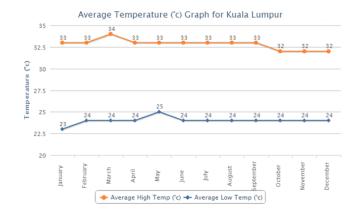
WIND DIAGRAM



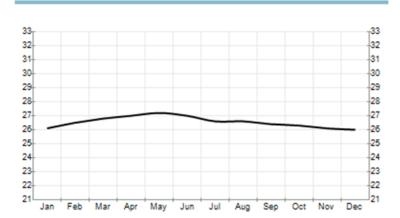


The monsoon season bring strong winds to Malaysia every year. In Cameron the top wind speed recorded was 81kph to 93 kph. With the strong winds and rains each year, the materials and the design must be able to withstand the strong wind.

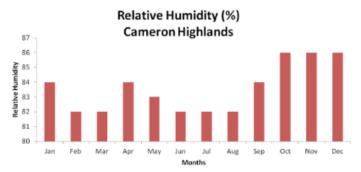
TEMPERATURE AND RELATIVE HUMIDITY



STATISTIC



Average temperature per month



CLIMATE EFFECT





GROWTH OF MOSSES

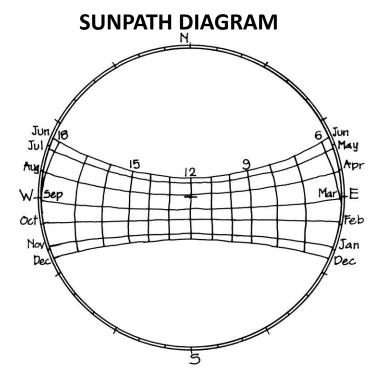
PAINT PEELING OFF

RUSTING OF STEEL

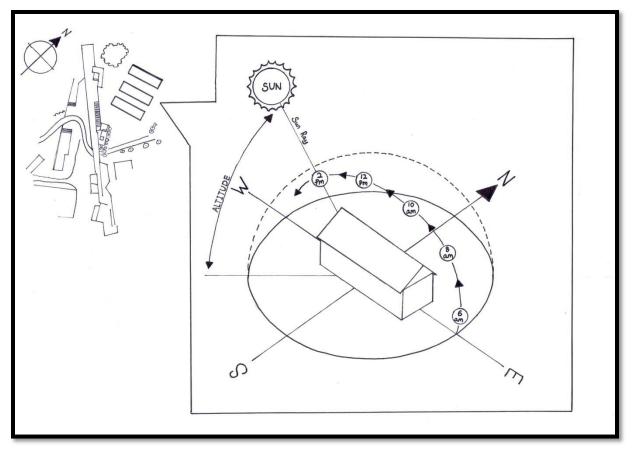
CLIMATE

Cameron Highland in generally has a fairy cool weather all year around, compared to Kuala Lumpur it is the most suitable area to grow tea. Since Malaysia is located on the equator, the weather varies based on it. The equator's sun path does not change much, so regardless of the sun's movement we still get most of its rays. The downpour in Cameron Highland also is higher because of the increase precipitation in the air. Besides that the temperature in Cameron in lower thus making the tea leaves moist and hydrated for the best quality of tea.

So, the climate in Cameron Highlands requires our design to withstand tremendous amounts of rain, strong winds, UV radiation, cold temperature and high relative humidity. In such cases shades are needed to protect us from radiation and rain. Numbers and types of opening must be accounted for as the cold weather. will influence or reduce. Materials are important as well as the air relative humidity is high causing moss growth, peeling of paint, rusting, termite invasion and so on.



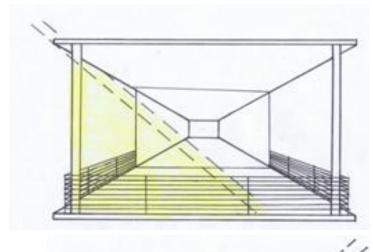
Malaysia is located at the equator of the earth. Thus allowing our country to have access to a lot of sunshine. The angular position of the sun as seem from a particular place on the surface of the earth varies from hour to hour and from season to season. The seasons occur because the earth axis of rotation is not perpendicular to its orbital plane, currently makes an angle about 23.44 degree. For half the year the Northern Hemisphere is inclined toward the sun while for the other half year the Southern Hemisphere has this distinction and vice versa.



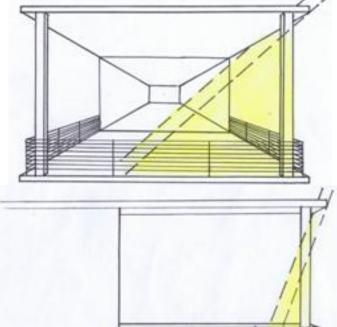
ORIENTATION

- -The position of the building in relation to an east –west axis. The important features of the building such as entrances and passages face to east in the direction of the rising sun.
- -The knowledge of sun paths for any site is fundamental in design building facades to let in light and passive solar gain, as well as reducing glare and overheating to the building interior.
- -The houses is not only designed according to the control of the hill and also designed to be orientate is because to reduce the sunlight to enter the houses.

SUNSHINE AND SUNSET

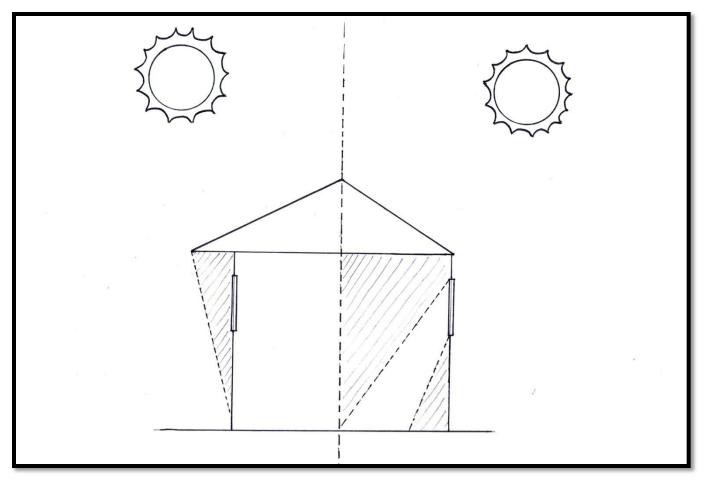


Morning sunrise
9am from the east



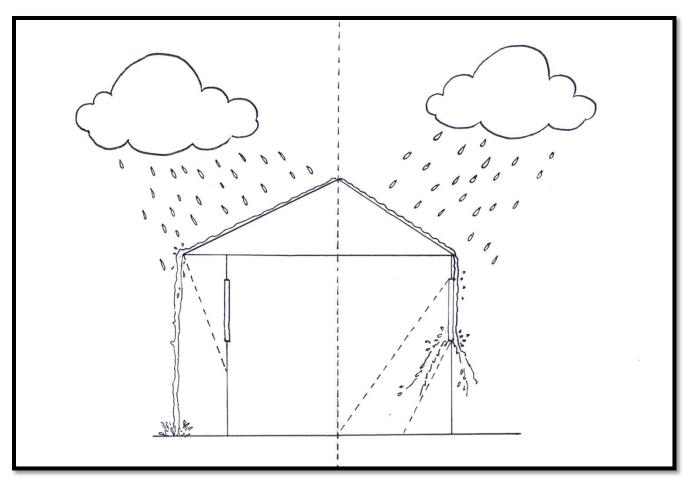
Evening sunset
5pm from the west

Afternoon sun 12pm



ROOF OVERHANG & WITHOUT OVERHANG

- -Roof is the first line of defenses in protecting our homes from the deterioration effects of driving rain and UV glaring sun. so that roof overhangs play a critical roll in helping perform these roof functions.
- -The exterior shading devices are more effective than interior devices in reducing solar heat gain, because they block radiation before it passes through a window. Light-coloured shades are preferable to darks ones, because they reflect more and absorb less radiation.

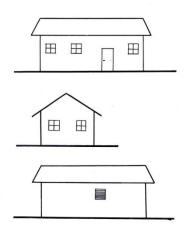


ROOF OVERHANG & WITHOUT OVERHANG

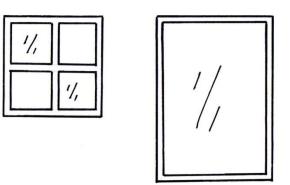
- -The projection factor for the horizontal overhang is also to avoid the driving rain straight into the window .
- -The water flow from the roof won't flow into the houses through the window instead to the ground.

Air Ventilation

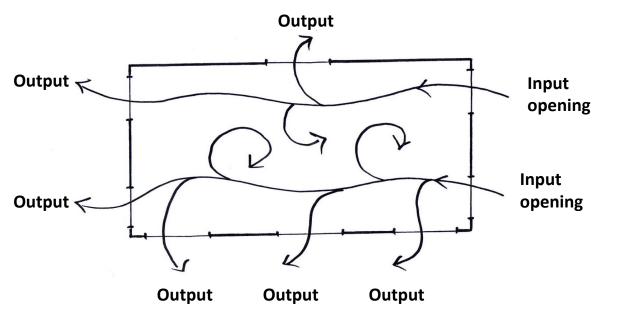
Air ventilation is a kind of passive ventilation, using the force of the wind (or local air pressure differences) to pull air through the building. Wind ventilation is the easiest, most common, and often least expensive form of passive cooling and ventilation. Successful wind ventilation is determined by having high thermal comfort and adequate fresh air for the ventilated spaces.



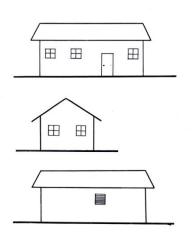
The houses in Cameron Highland have small, high placed openings. All of the openings of the houses on the site are not located faced to the wind direction, which is east. This is to avoid the strong wind in Cameron Highland to flow direct into the house.



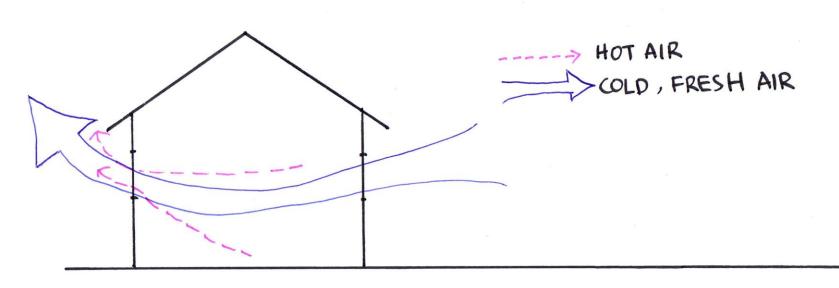
The openings are designed to be small to control the amount of wind flow into the interior and to boost up the speed of the ventilation system to cause an effective ventilation system.



The ventilation is boasted but using the number of wind input and wind output of the house. There are just 2 wind input opening and 5 to 6 output opening. This will cause the pressure of the interior lower than exterior, thus pulling the wind into the house and speed up the air change rate.



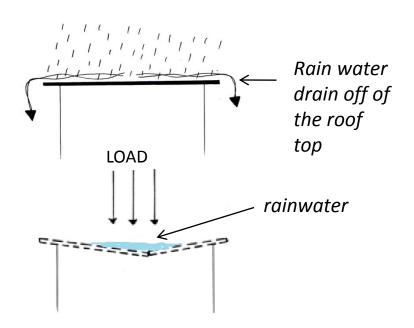
Hot air are less dense than cold air, thus the hot air will flow to a higher place while cold air sink to the bottom. The cold air that flow into the interior push the hot air out of the building from the high placed opening. Air change and effective ventilation occur within the interior.



Rooftop Design

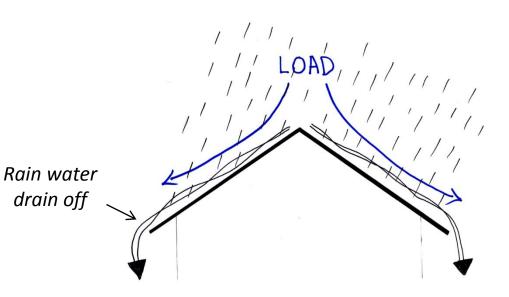
The rain in Malaysia are heavy and strong. Thus, the design of rooftop of building are important in order to drain up the rain water faster or else the rooftop might be collapse due to the heavy load. The statistic shows that there are at least 15 days in a month in Cameron Highland are rainy days. This is due to the high precipitation of the environment. However the rain there are not as strong as the rain in Kuala Lumpur and other states. But, we still having the heavy rain problem because the amount of rain is high.

The topography of Cameron Highland are a natural drainage system. The water will flow downward the hill automatically so the drainage system on the ground are not necessary. The problem of the damage that the rain water brings to the residents on the down hill are solved naturally. The trees and tea bushes will create an obstacle to the downfall rain water so the water cannot gain momentum to bring damage to building on downhill.



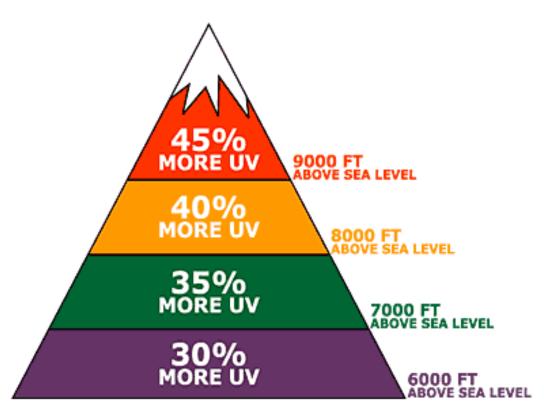
Gabled roofs were designed to help water runoff. The angled sides act as a slide, using gravity to help water flow off of the roof. They are also very useful in climates with heavy rain. The steep slopes of gabled roofs help to alleviate the pressure and weight of and rainfall.

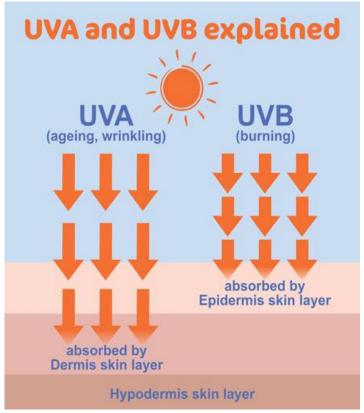
Rainy days are quite a normal weather in Cameron. So the drainage system should be efficient in order to drain out the rain water to prevent the heavy load that might make the roof collapse. This is the reason why the rooftop there are designed in such way.



The UV radiation at Cameron Highland are higher than Kuala Lumpur and other states because of it located at higher altitude,1500m above sea level thus the UV rays that we received on Cameron Highland are higher.

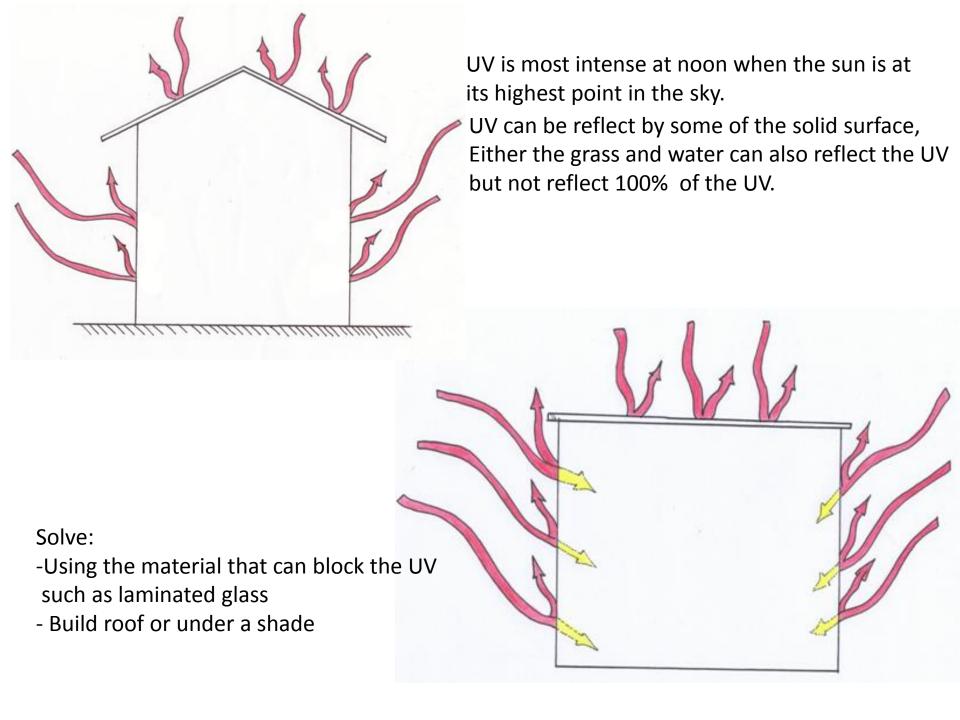
The UVA radiation can cause damage to our skin, like sunburn, skin cancer. But UVB radiation helps the skin produce a type of vitamin D.



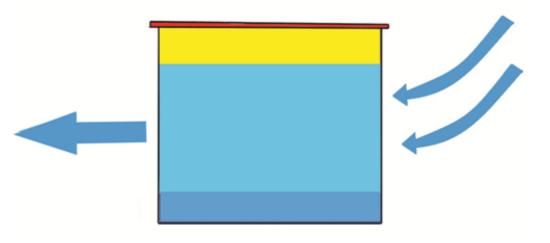


UV INDEX

The UV index is an international standard measurement of the strength of the UV radiation from the sun at a particular place on a particular day, It is scale primarily used in daily forecasts aimed at the general public and is now available as an hourly forecast as well. Its purpose is to help people to effectively protect themselves from UV light, of which excessive exposure causes sunburns, eye damage such as cataracts, skin aging, and skin cancer.



Zoning Temperature

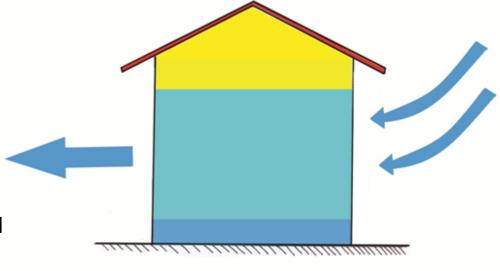


RED: The roof is the most higher temperature because of it exposure under the sun.

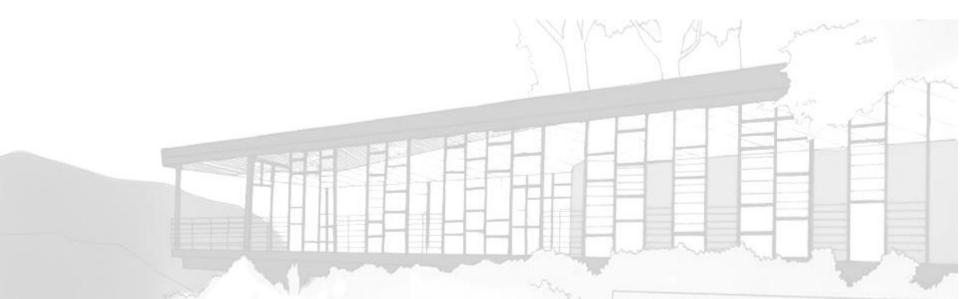
YELLOW: The upper part of the building it's temperature is high because the hot gas is light. Hot air is less dense so it move to the upper place.

BLUE: The normal temperature because of the opening and the wind ventilation

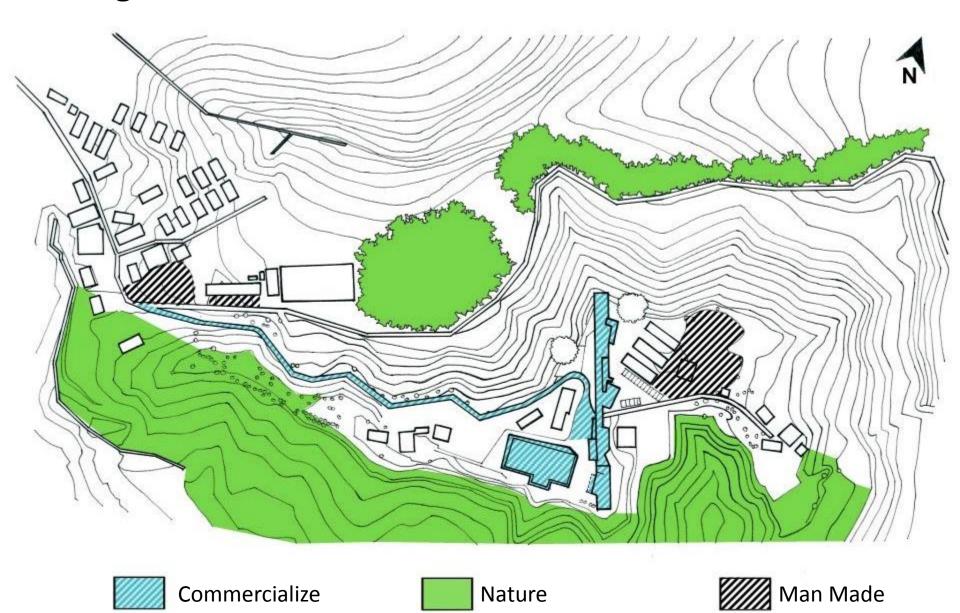
DEEP BLUE: The cold air are denser so it will sink causing the lower temperature of the building.



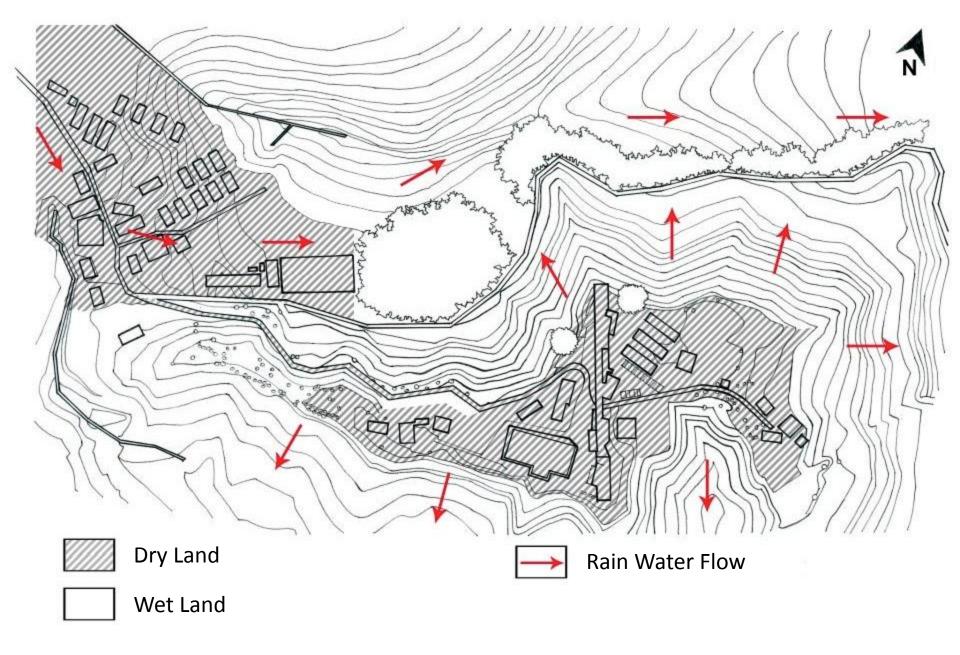
LANDSCAPE



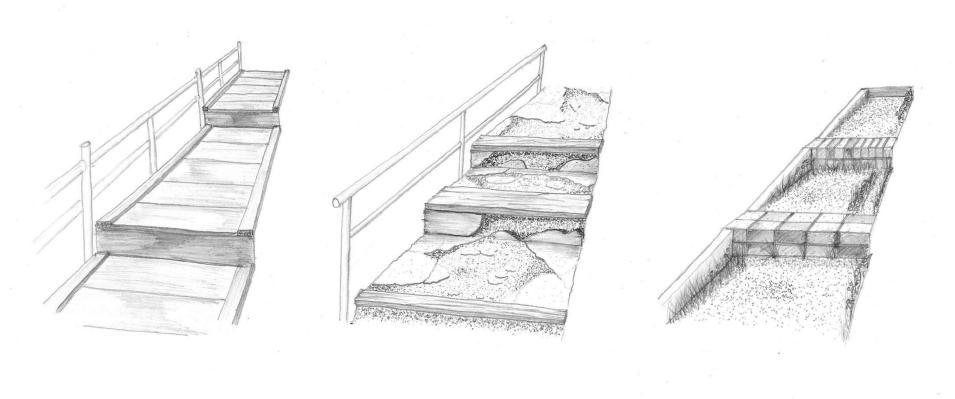
Zoning



Zoning



Soft & Hard Scape (Types of Stairs)

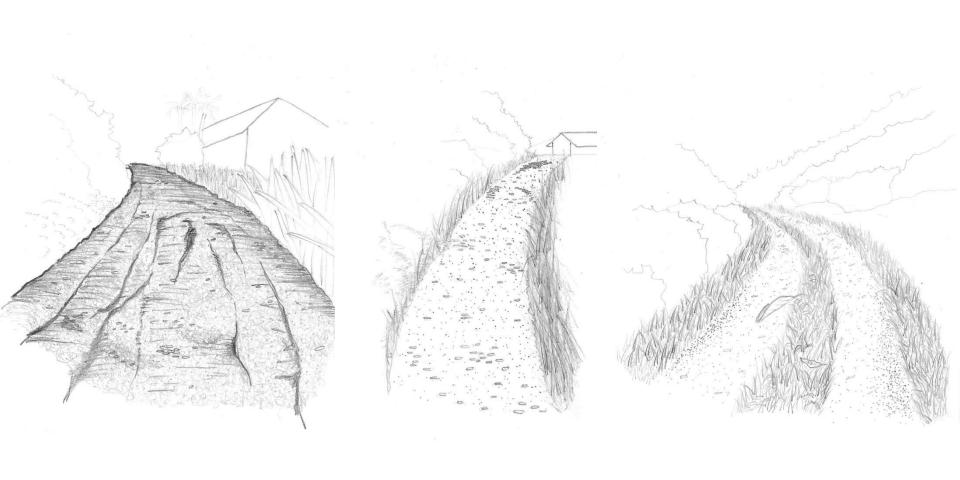


Wooden Stairs

Cracked Concrete with Wooden Plank

Hard Soil with Clay Brick

Soft & Hard Scape (Types of Roads)



Cracked Tar Road with Concrete Layer

Hard & Dry Soil Road

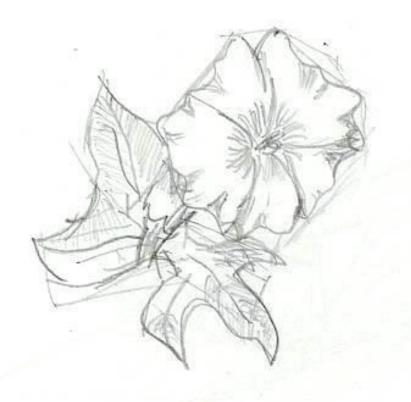
Stone with Dry Soil Road with Grass

Soft & Hard Scape (Types of Soils)



Common Sandy Soil

Dark Fine Sandy Top Soil



Name: Morning Glory or Heavenly Blue

Family: Convolvulaceae

Bloom Season: June

Colour: Blue Violet with Dark Green Leaves

Size: Maximum Height 2.5 - 4 meters

Maximum Width 0.5 - 1 meter

*Takes 1 Year to grow up to 4m



Name: Lollipop Plant or Golden Shrimp Plant

Family: Acanthaceae

Bloom Season: All Year Round

Colour: Yellow and White with Dark Green

Leaves

Size: Maximum Height 0.5 – 1 meter

Maximum Width 0.5 – 1 meter

*Takes 5 - 10 Years to grow up to 1m



Name: Yellow King Humbert

Family: Cannaceae

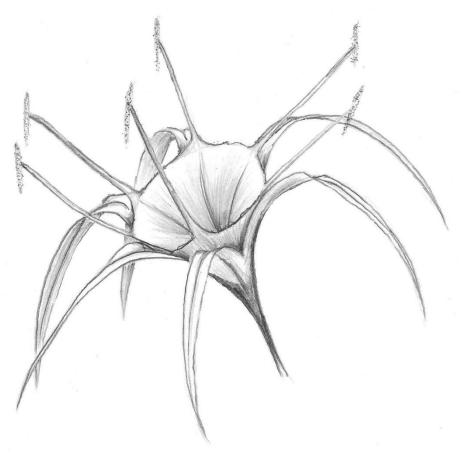
Bloom Season: July, September & October

Colour : Buttery Yellow Flowers with Orange dots & Bright Green Leaves

Size: Maximum Height 0.9 meters

Maximum Width 6 inches

*Takes 3 Years to grow



Name: Spider Lily

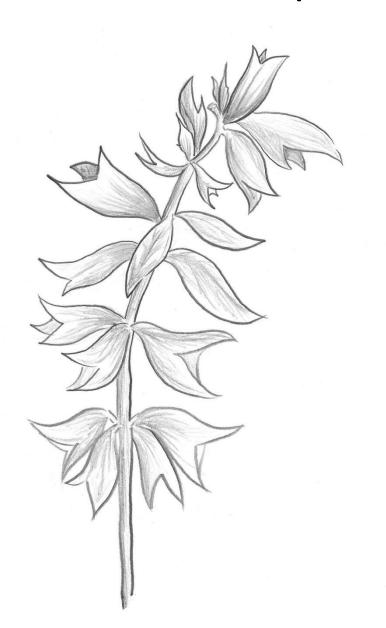
Family: Amaryllidaceae

Bloom Season: March - September

Colour: White with Green Leaves

Size: Maximum Height 0.5 – 1 meter Maximum Width 0.5 – 1 meter

*Takes 2-5 Years to grow



Name: Scarlet Sage

Family: Herbaceous Perennial

Bloom Season: December – March &

September - December

Colour: Bright Red with Bright Green Leaves

Size: Maximum Height 0.3 – 0.6 meters

Maximum Width 0.2 – 0.45 meters

*Takes 1 Year to grow



Name: Bougainvillea "Poulton's Special"

Family: Nyctaginaceae

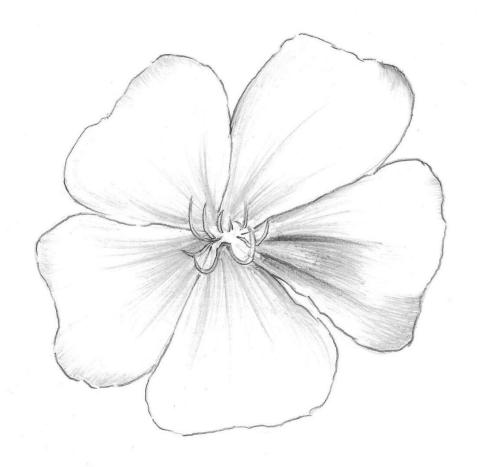
Bloom Season: March - September

Colour : Pinkish Purple with Dark Green Leaves

Size: Maximum Height 4 – 8 meters

Maximum Width 1 – 1.5 meters

*Takes 10 – 20 Years to Grow



Name: Glory Bush

Family: Melastomataceae

Bloom Season: December - March &

September - December

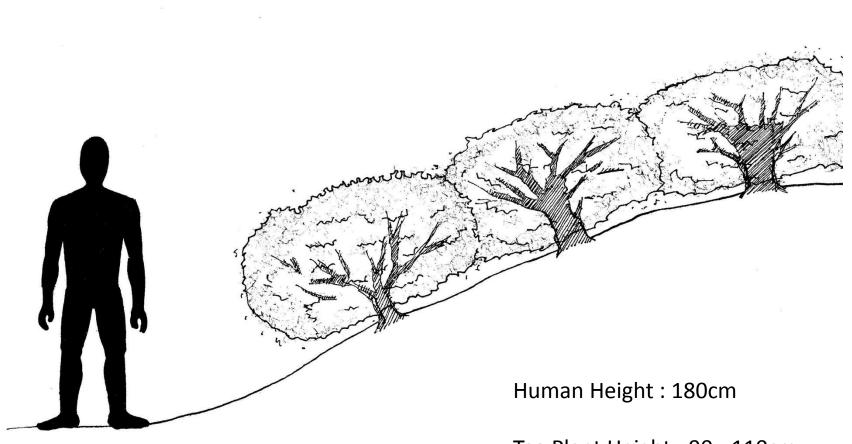
Colour: Purple with Green Leaves

Size: Maximum Height 2.5 – 4 meters

Maximum Width 1.5 – 2.5 meters

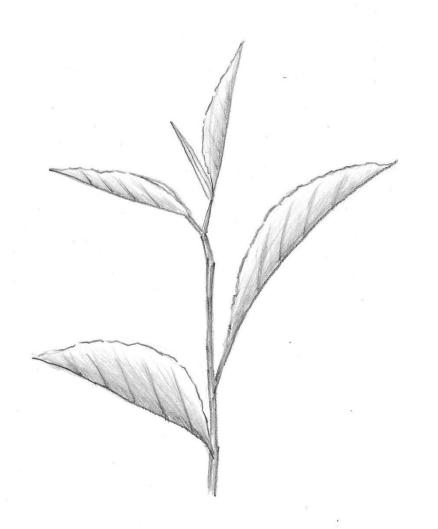
*Takes 5 – 10 Years to Grow

Section of Tea Plant



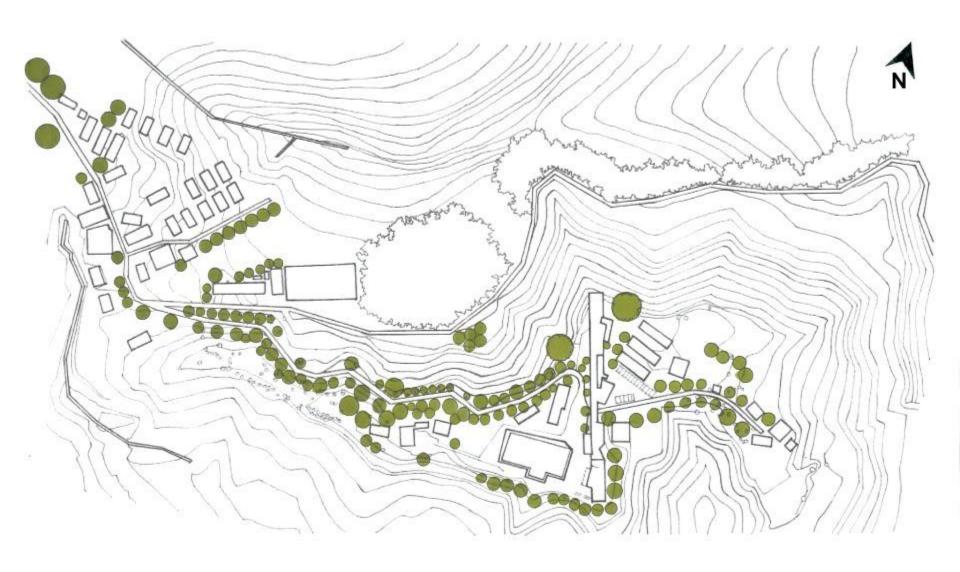
Tea Plant Height: 90 - 110cm

BOH Tea Plantation Leaves

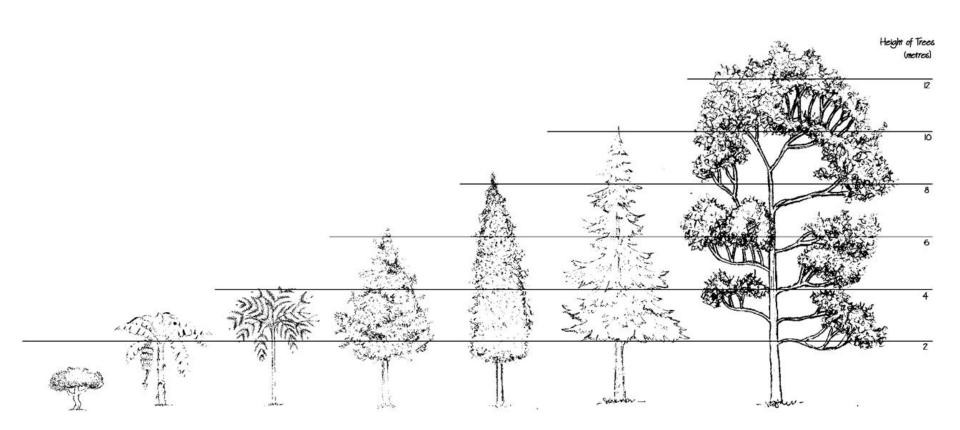


- Tea leaves are pluck every 3 weeks
- Leaves can be picked year-round.
- Tea leave flushes during March June (giving the finest quality due to cold weather on higher ground areas)

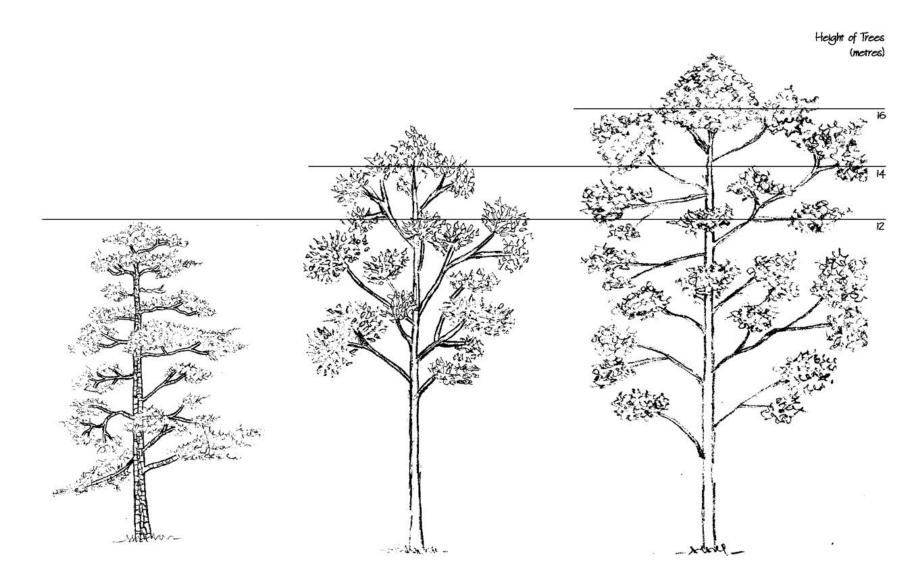
Radius of Trees



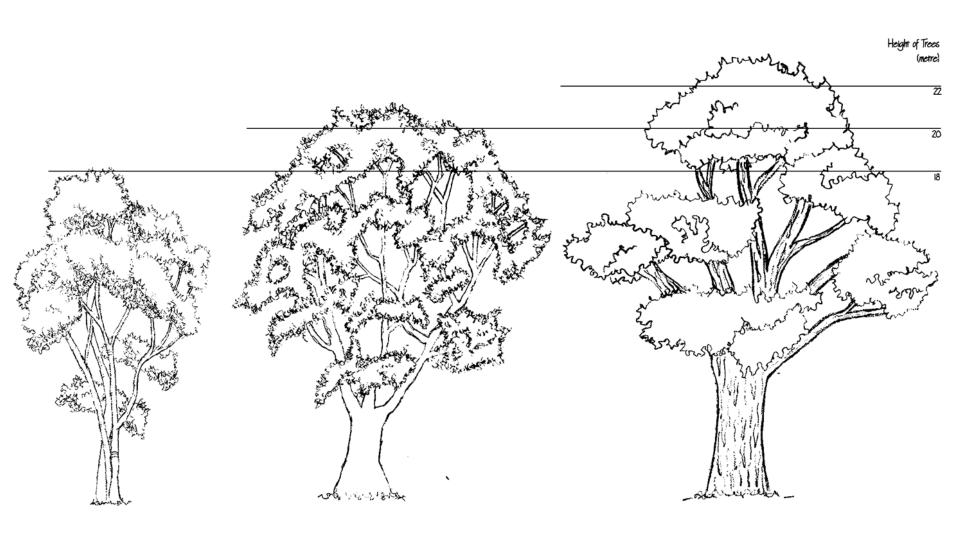
Height of Trees



Height of Trees



Height of Trees



Recreational (Football Field & Parking)



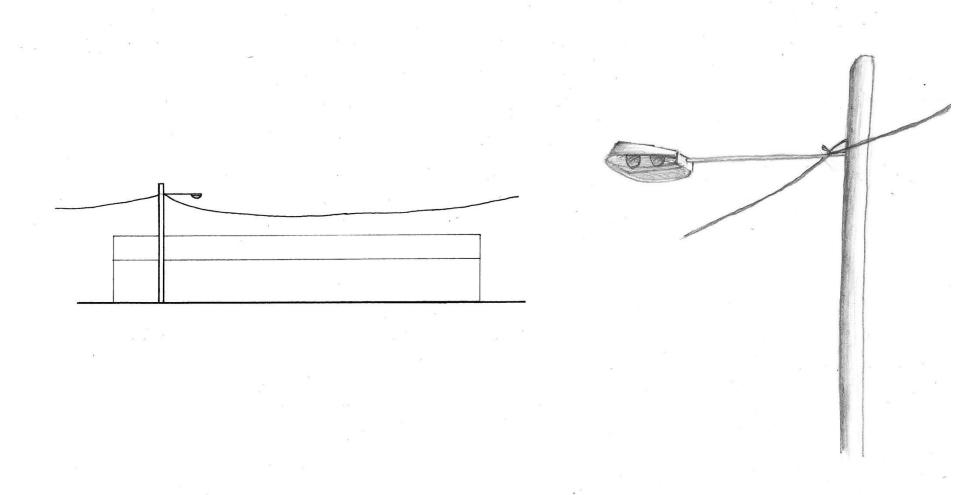
Cark Park



Football Field



Recreational (Lamp Pose)

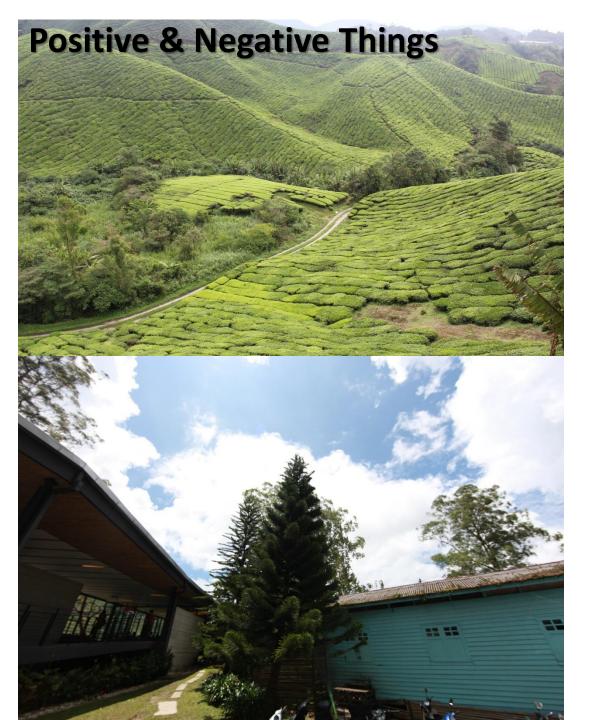


Attraction of Insects & Birds



Attraction of Insects & Birds





POSTIVE

- 1. Nice sceneries around the site.
- 2. Even though the sun is shining bright, it does not feel hot.
- 3. Due to the plantation on the slope/mountain, there

won't be any drainage problem because as the rain water flows, it will do down all the way to the small river.



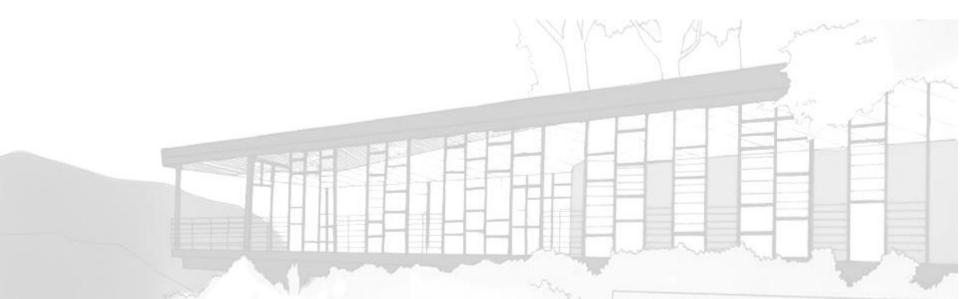
How to Reduce Flies





- 1. Lavender Flower
- 2. Basil Flower
- 3. Elderberry

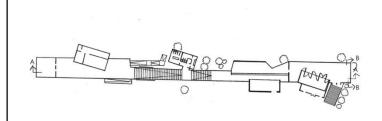
CASE STUDIES



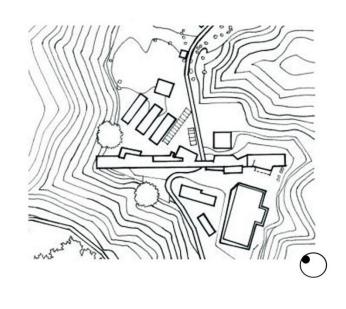
SUNGAI PALAS, CAMERON HIGHLAND



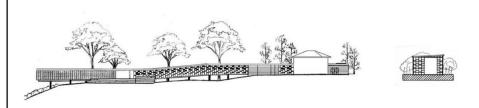
Boh Tea Centre Sungai Palas,Cameron Highland ZLG Design 2005



Floor Plan



Site Map



Elevation 1

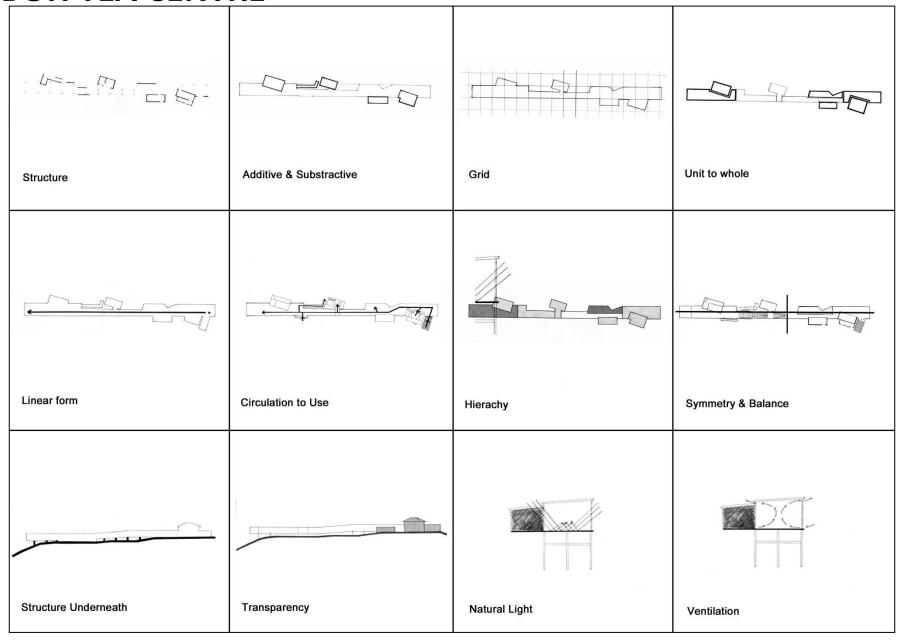
Elevation 2



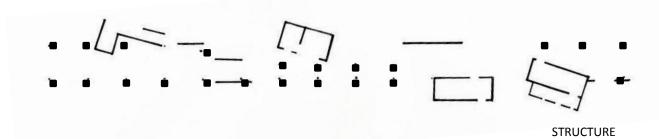


Longitudinal Section A-A

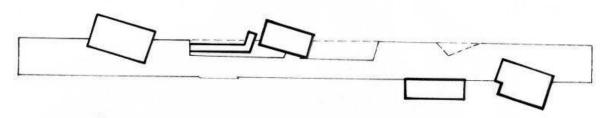
Cross Section B-B



The structure is mainly supported by columns.

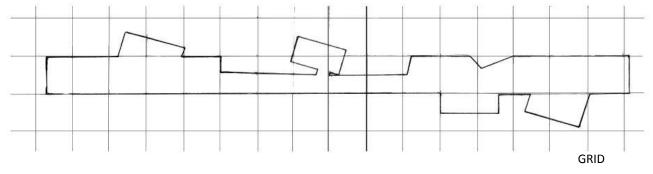


• Both additive and subtractive are utilized in the design to give a sense of spatial consequences.

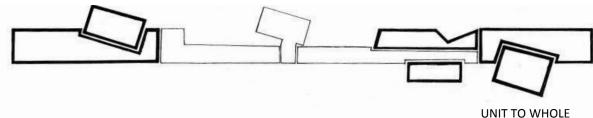


ADDITIVE & SUBTRACTIVE

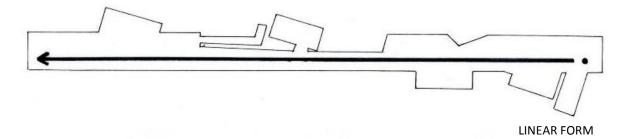
• The design based on a range of 9m grid.



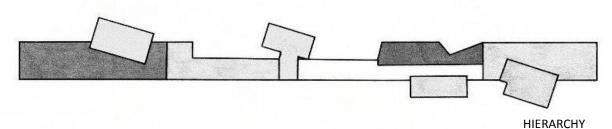
• Collecting the various buildings (café, visitor center, gift shop) into a **single unified whole**.



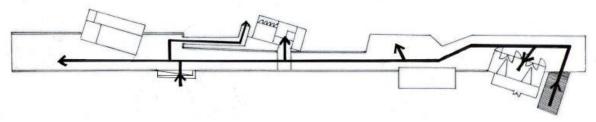
Linear form links the spaces of the tea house.



• Spaces that symbolically important to the organization articulated by their size and form.

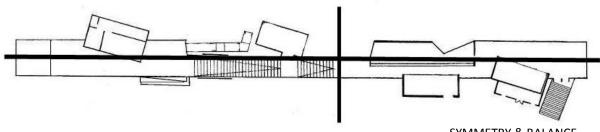


• Linear form terminated by a dominant space that is the big outdoor terrace area and also by the topography of its site.



CIRCULATION TO USE

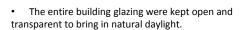
• Balance occurred in the form of rotation about the intersection point.



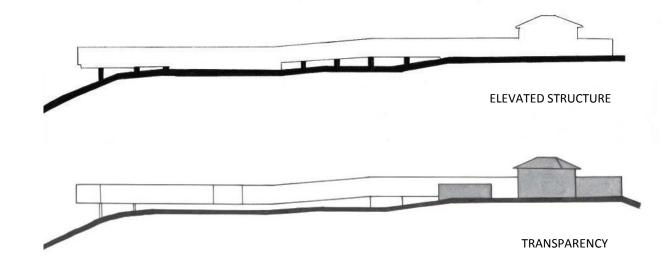
SYMMETRY & BALANCE

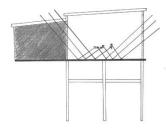
• It is elevated to provide space below the underside of the structure to reduce impact on any of the original contours of the terrain.

• The transparent wall allow visitor to truly appreciate the valley view from inside.

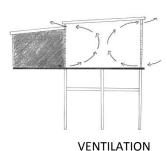


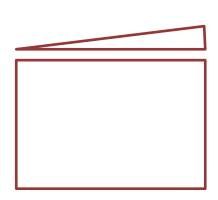
• It is a naturally ventilated building with a minimum need for any mechanical ventilation.

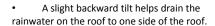


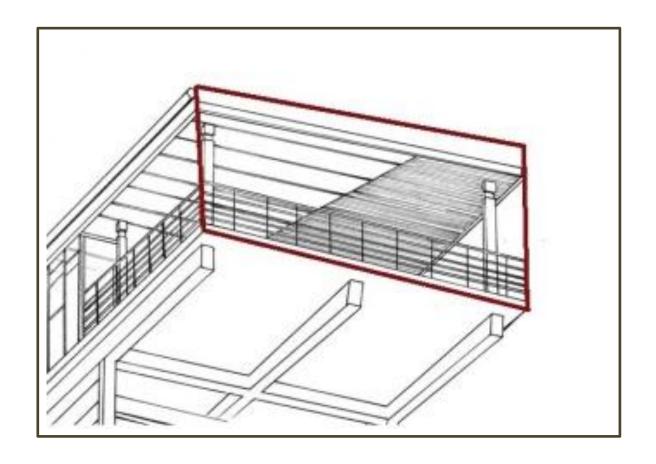


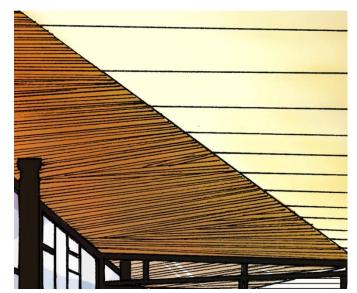
NATURAL LIGHT



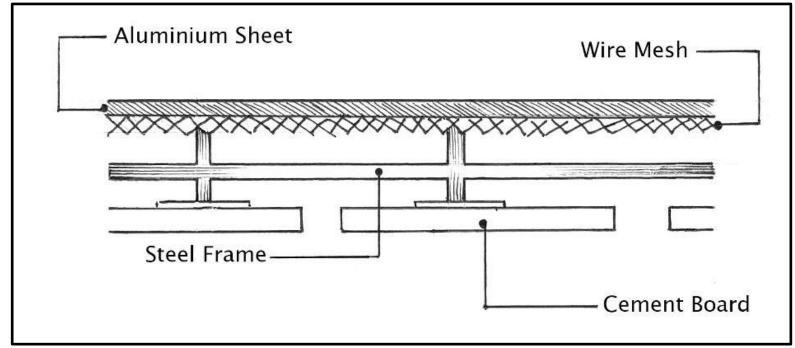






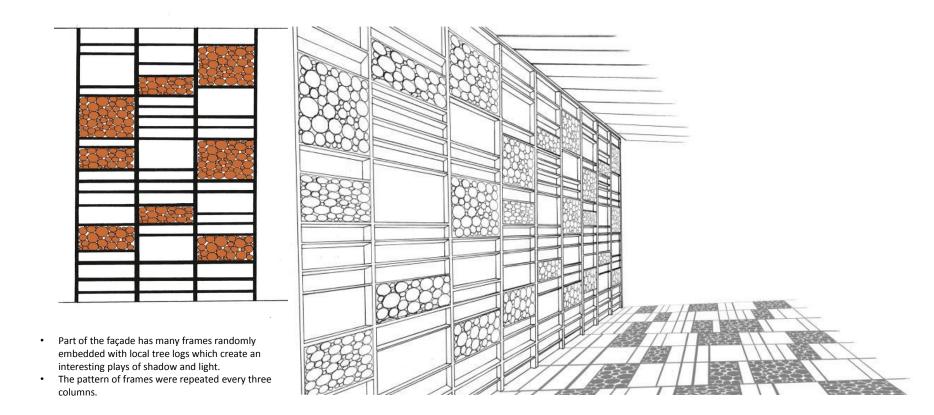


• The bamboo and cement boards are designed to be externally exposed to the elements, and are also organized to provide concealed lighting.





• The café partially sealed with windows that can be opened, in case of strong wind from interrupting cafe activities, users can also choose to enjoy the cool breeze while running their cafe activities at the outdoor terrace area.





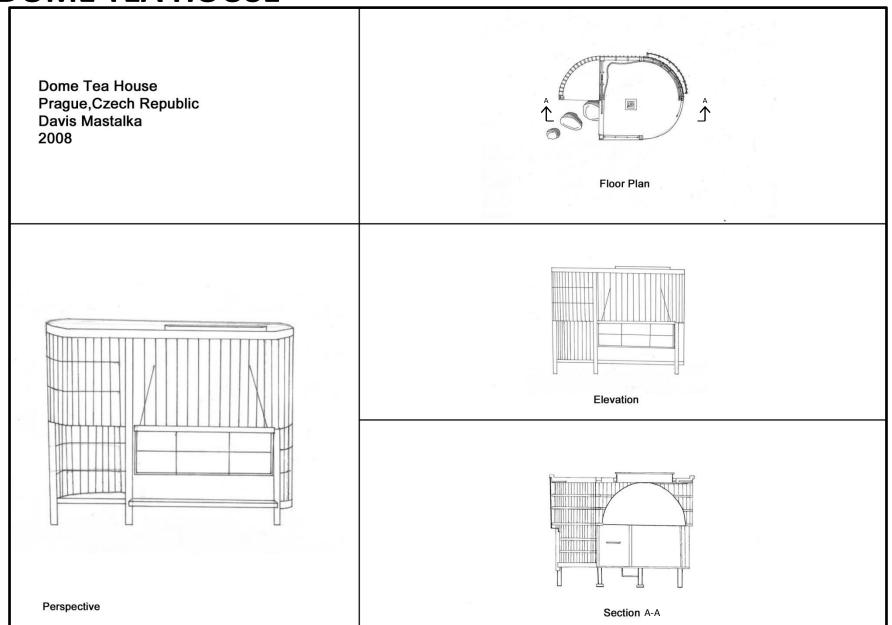
• Color scheme is different with the surroundings to attract people.

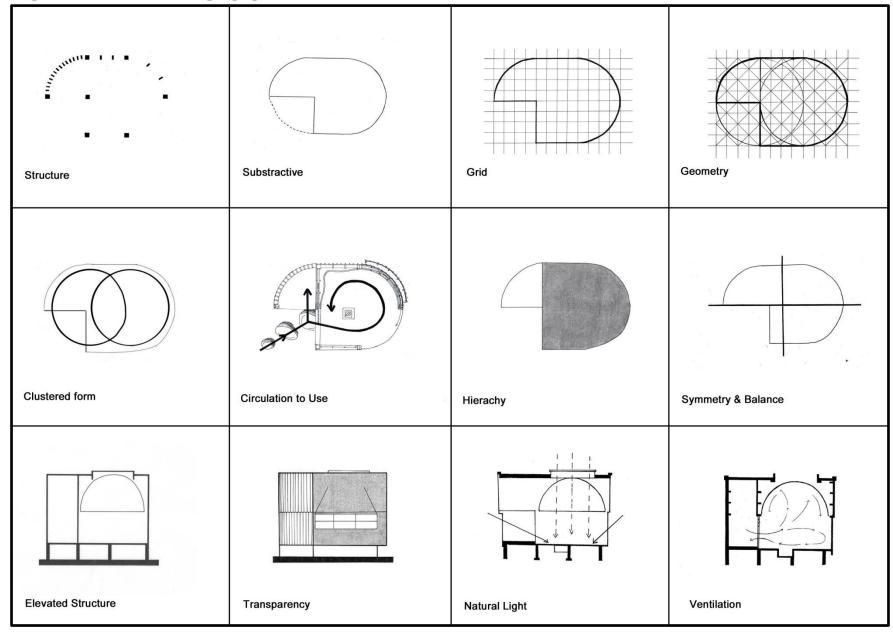


PRAGUE, CZECH REPUBLIC



CASE STUDIES

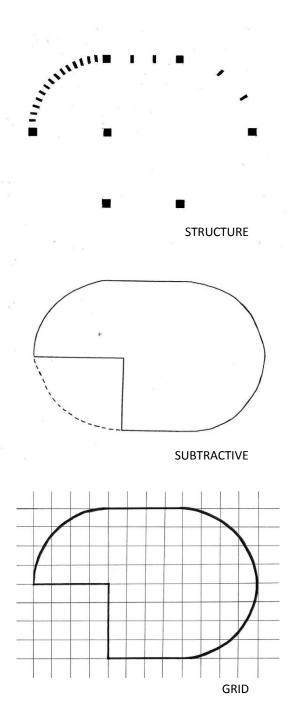




• The columns are all constructed from natural wood.

• The subtracted part function as an entrance.

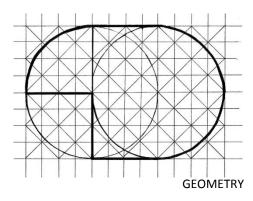
• The design based on a grid of 1.2m.

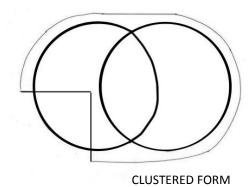


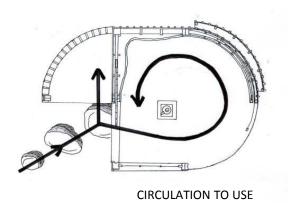
• The form derived from combining two equal circles.

• Two circles were clustered to form the shape of building.

• Circulation within the space is limited to create a close bondage with all who are present in it.

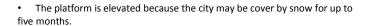


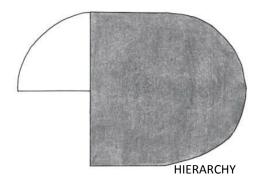


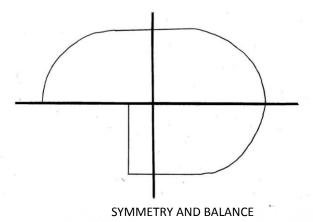


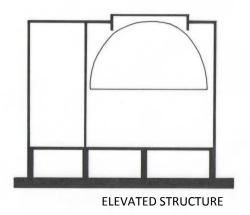
• Public and private space.

• The closed private area is balanced by the open public area.

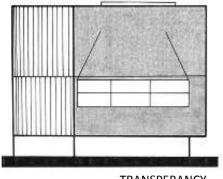






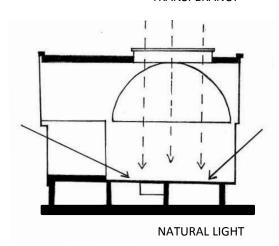


• This small structure has a translucent, domed roof covered with paper.

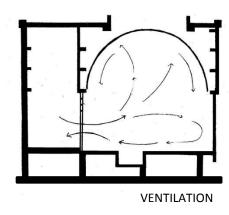


TRANSPERANCY

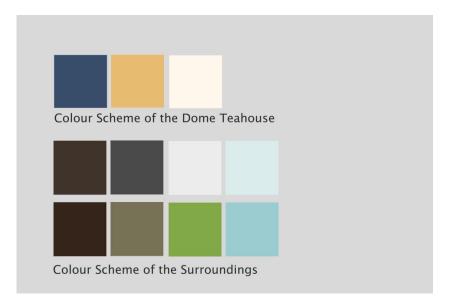
The transparent dome roof diffuse daylight and maximum heat into the house.



• It is a naturally ventilated building without any mechanical ventilation.

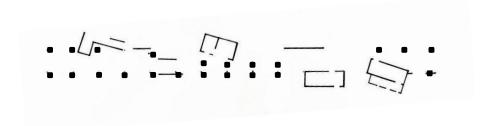


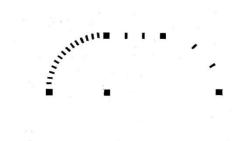
• Due to the climate of Prague, the color scheme of the site Is mostly in a range of cool colour. The colour of the building itself tends to blend with its natural surrounding.

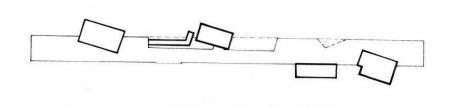


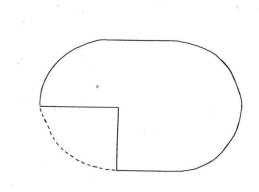


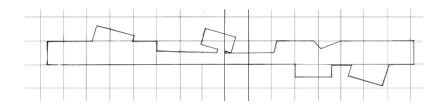


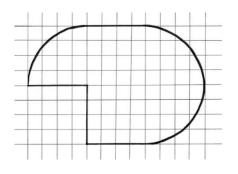


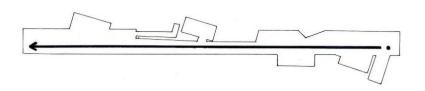


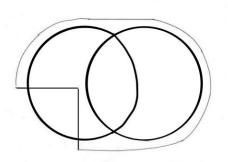


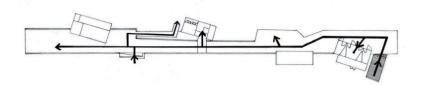


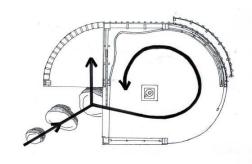


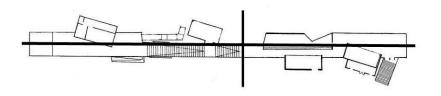


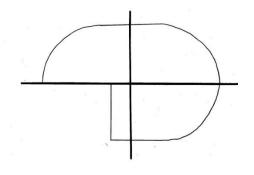


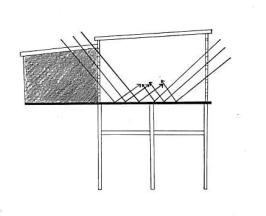


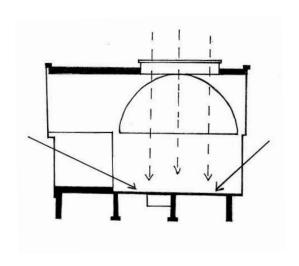




















THE END