

Study and Documentation of Traditional Settlement Patterns, Vernacular Architecture, Indigenous Construction Materials, and Building Technology of Ruby Valley in Dhading District, and to Recommend Measures for their Sustainable Conservation and Continuation

Final Report
Volume-V/V: Catalogue



Submitted By

Jaarsa Engineering Consultancy (P) Ltd.
Kathmandu

Government of Nepal
Ministry of Infrastructure Development
Urban Infrastructure Technology Research and Training Centre
Babarmahal, Kathmandu

Final Report

on

Study and Documentation of Traditional Settlement Patterns, Vernacular Architecture, Indigenous Construction Materials, and Building Technology of Ruby Valley in Dhading District, and to Recommend Measures for their Sustainable Conservation and Continuation

Volume-V: Catalogue

June 2026

This document is a Volume-V: Catalogue – Final of project “**Study and Documentation of Traditional Settlement Patterns, Vernacular Architecture, Indigenous Construction Materials, and Building Technology of Ruby Valley in Dhading District, and to Recommend Measures for their Sustainable Conservation and Continuation**” undertaken by the Urban Infrastructure Technology Research and Training Centre, Babarmahal, Kathmandu. This volume provides a comprehensive inventory and catalogue of documented vernacular buildings, heritage structures, settlement characteristics, architectural typologies, construction technologies, cultural features, and significant heritage assets within the Tamang Heritage Area. The catalogue includes photographs, building profiles and conservation priority rankings for each documented property and settlement.

PROJECT INFORMATION

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STUDY AREAS

Settlements of Ruby Valley Rural Municipality, Dhading

1. Lapdung Settlement

Ward No. 1, Ruby Valley Rural Municipality, Dhading

2. Tipling Settlement

Ward No. 2, Ruby Valley Rural Municipality, Dhading

3. Sertung Settlement

Ward No. 3, Ruby Valley Rural Municipality, Dhading

4. Borang Settlement

Ward No. 4, Ruby Valley Rural Municipality, Dhading

5. Chalish Settlement

Ward No. 4, Ruby Valley Rural Municipality, Dhading

6. Lapagaun Settlement

Ward No. 5, Ruby Valley Rural Municipality, Dhading

7. Khading Settlement

Ward No. 6, Ruby Valley Rural Municipality, Dhading

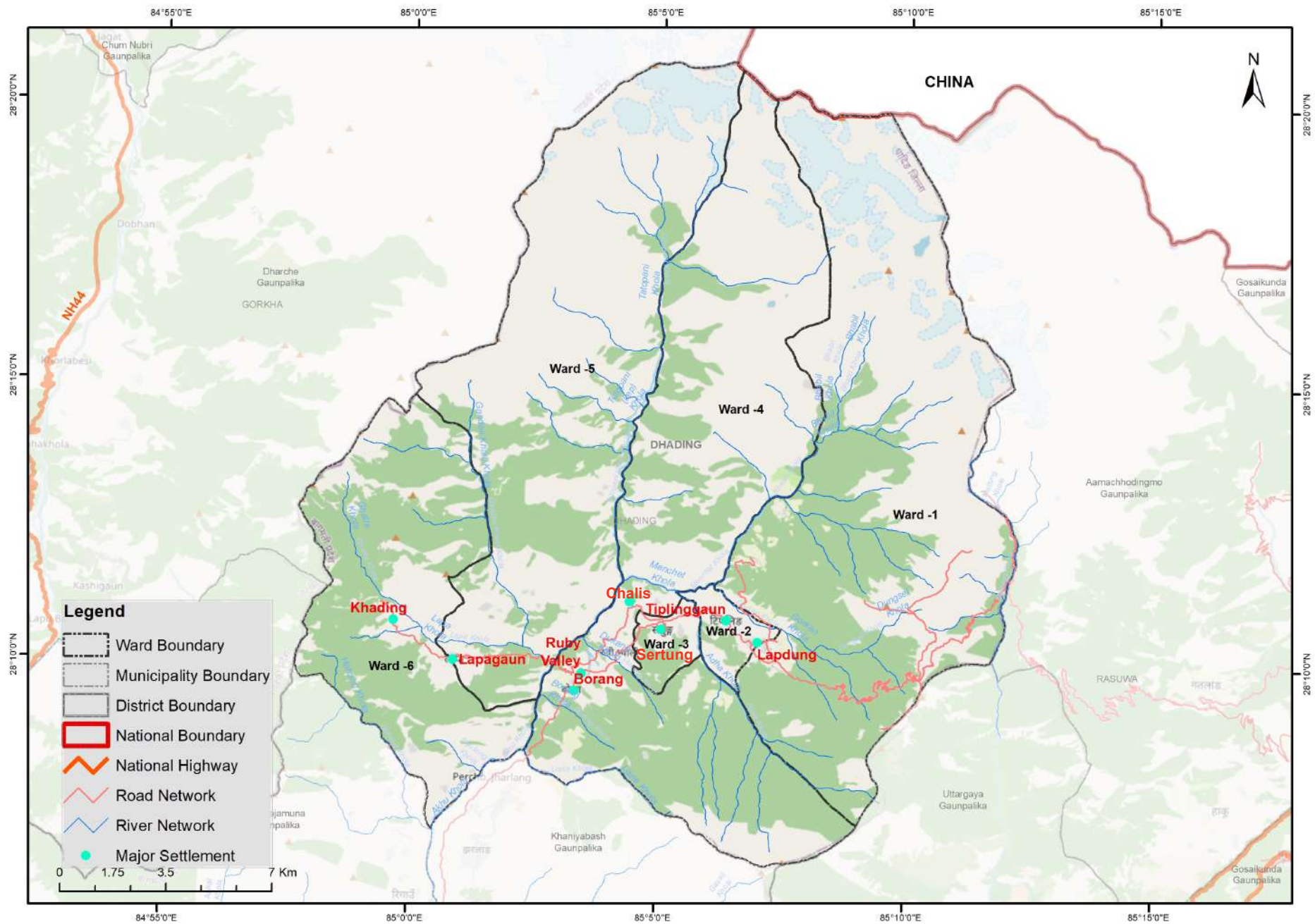


Fig: Location map of Study Area

LAPDUNG SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 01, DHADING

SETTLEMENT PLAN



Fig: Settlement Map of Lapdung

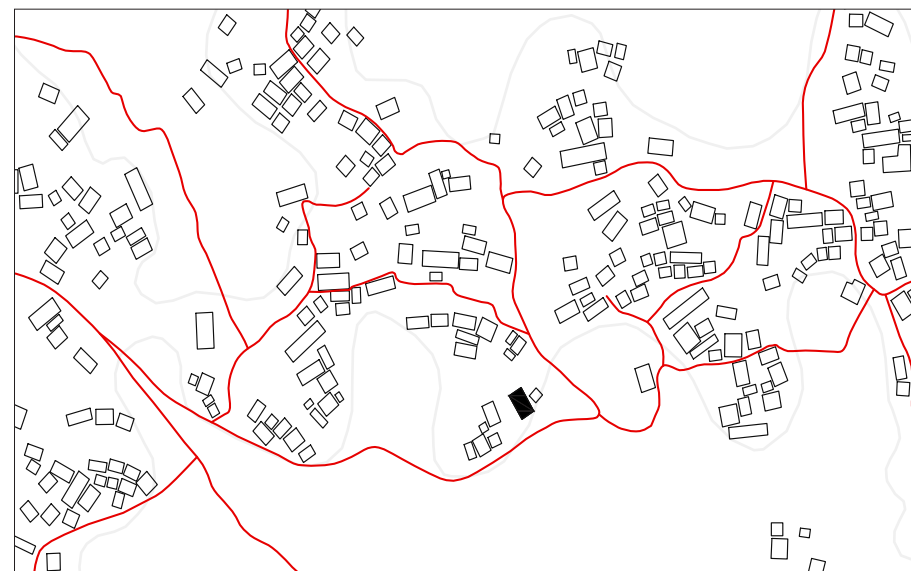
LAPDUNG SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-01

Measured House: BT1

1. House owner name: Gyapa Thapa Tamang
2. Location: Lapdung
3. Building age: 55 Yrs.
4. No. of current family member living: 2
5. Ground coverage area: 58.68 sq. m.
6. Building use: Residence



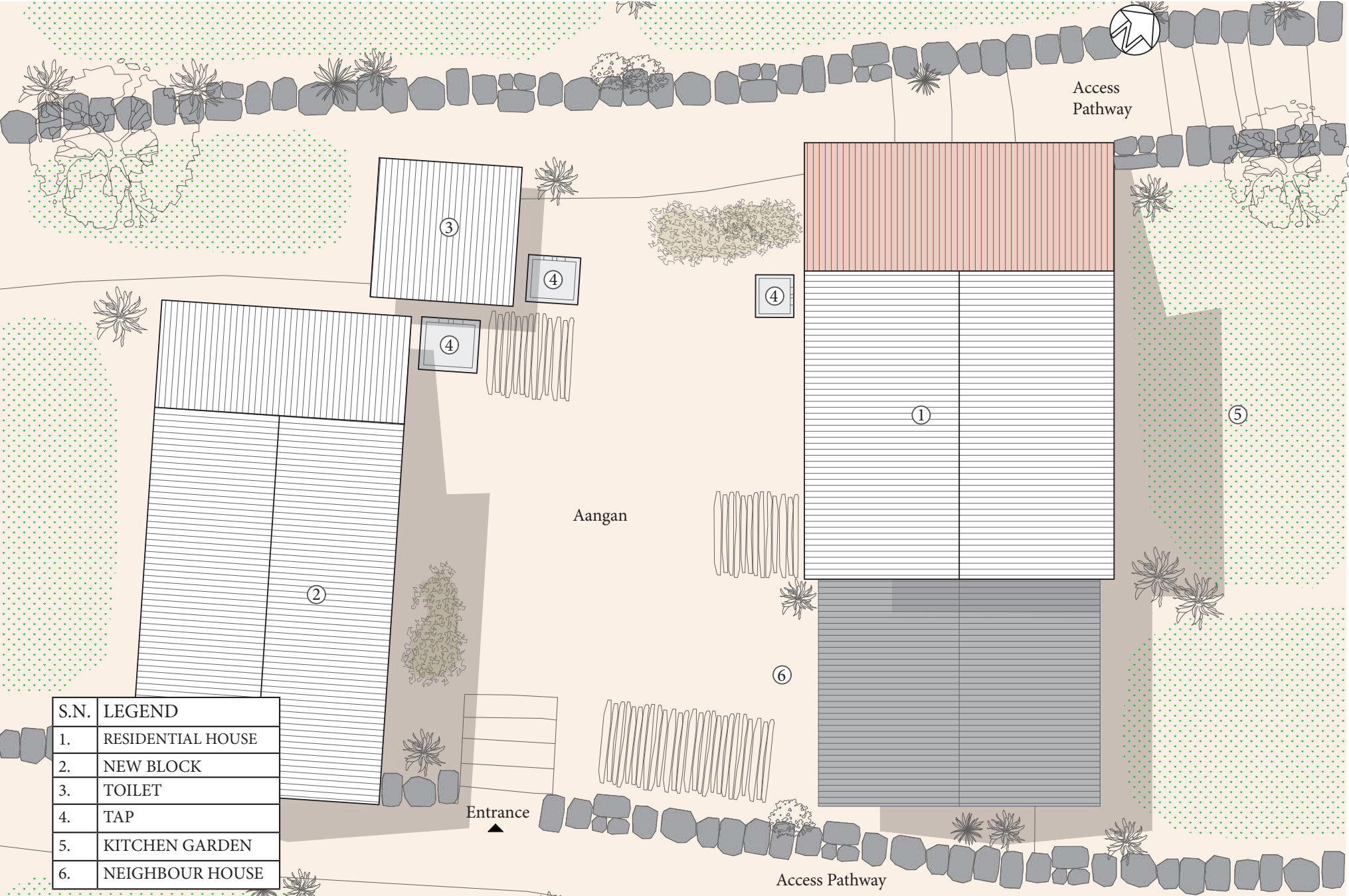
Measured House Location Map



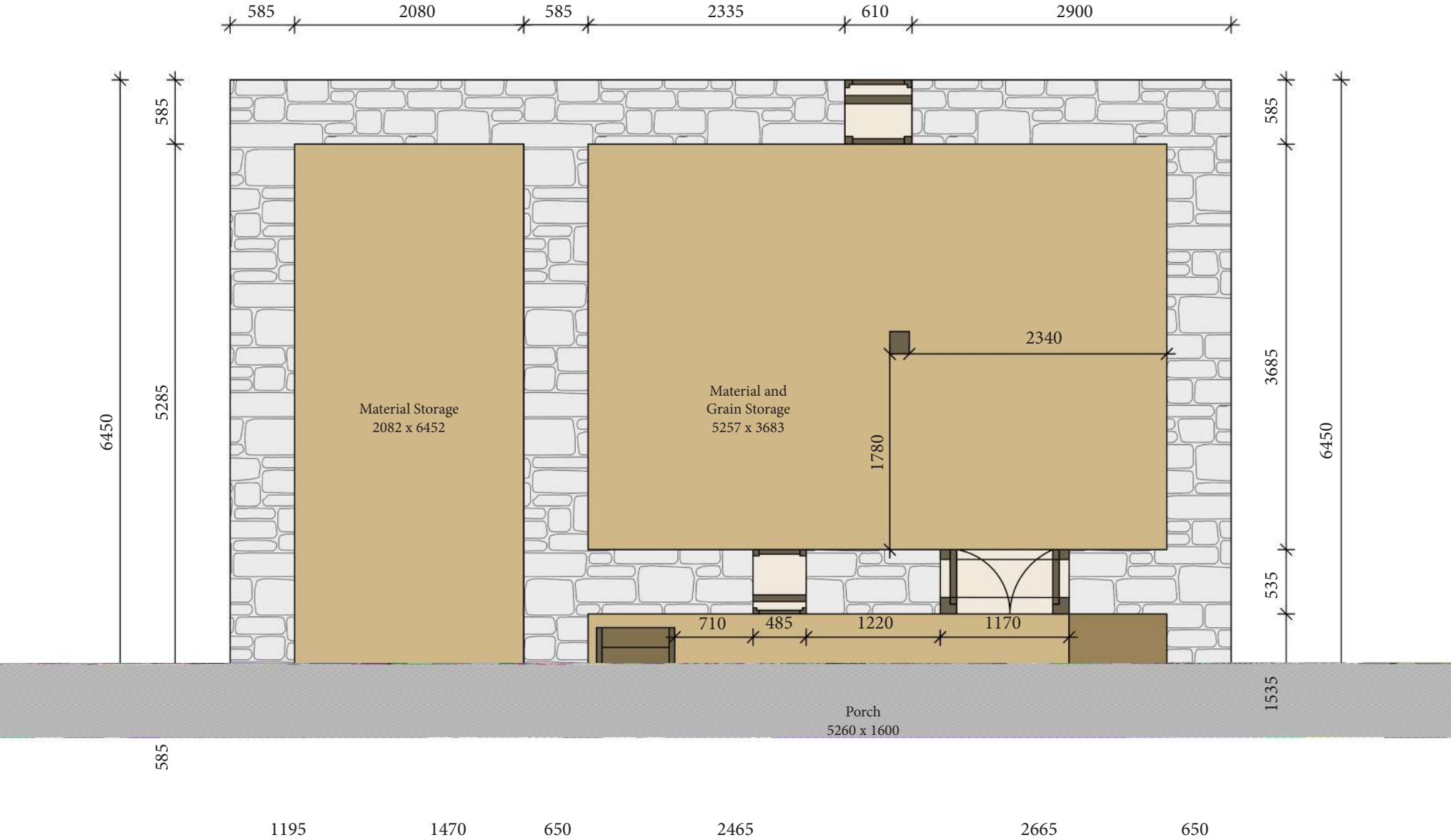
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Measured House Photos



Site Plan



Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



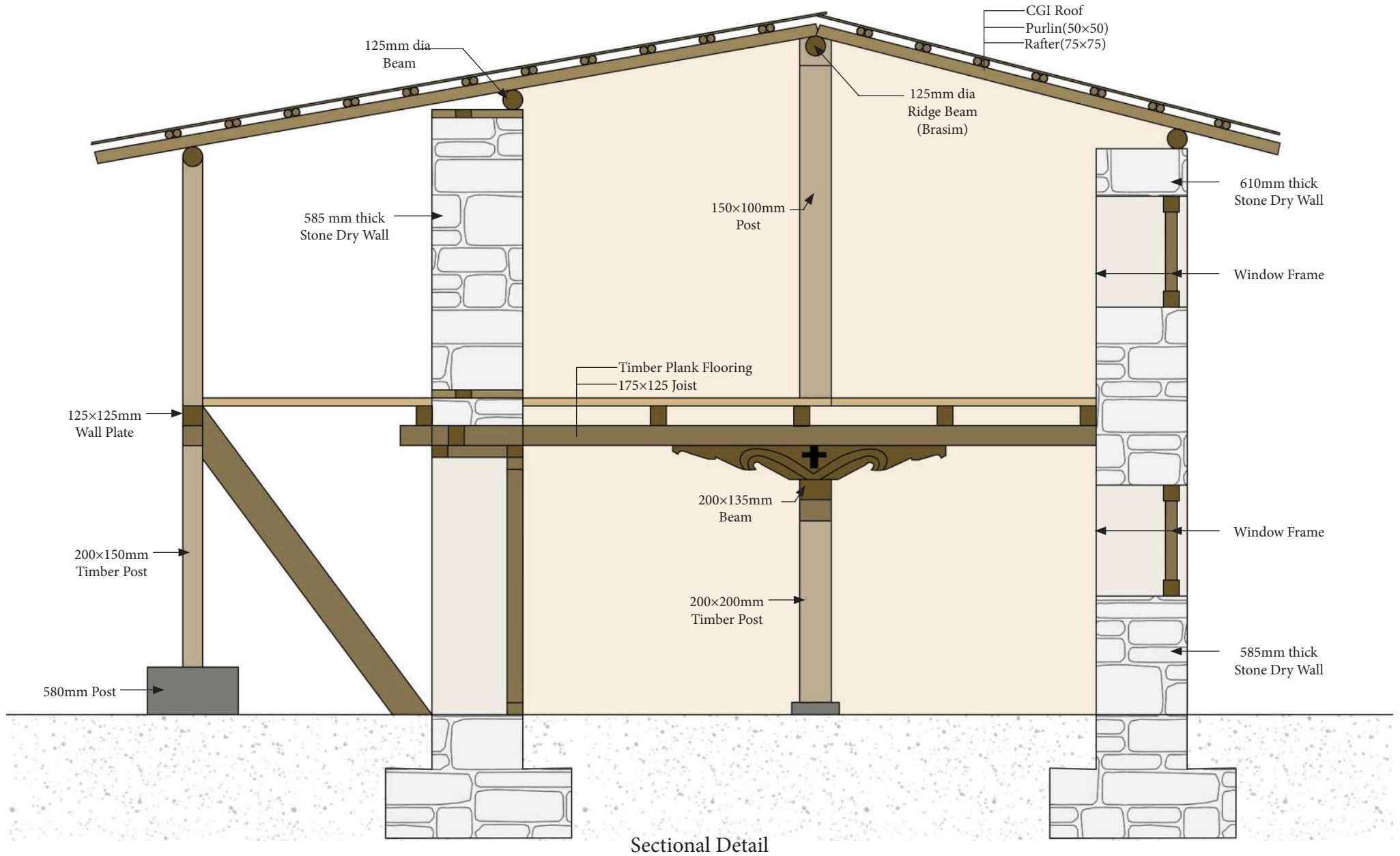
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.

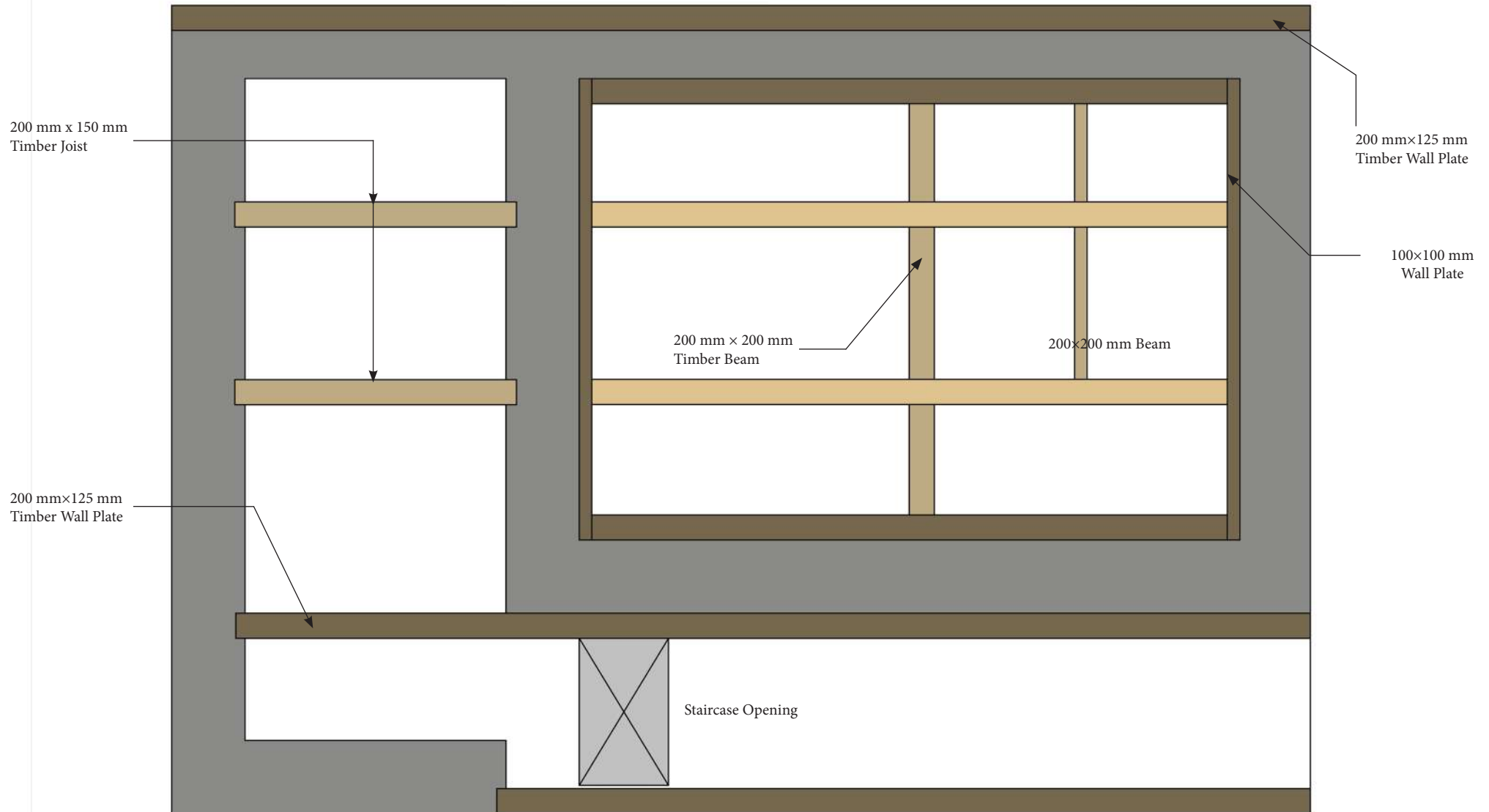


Sectional Perspective View

NOTE: The ground floor is primarily used for storing firewood and housing livestock. The first floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions often coexist within an open plan and are sometimes separated by timber plank partitions.

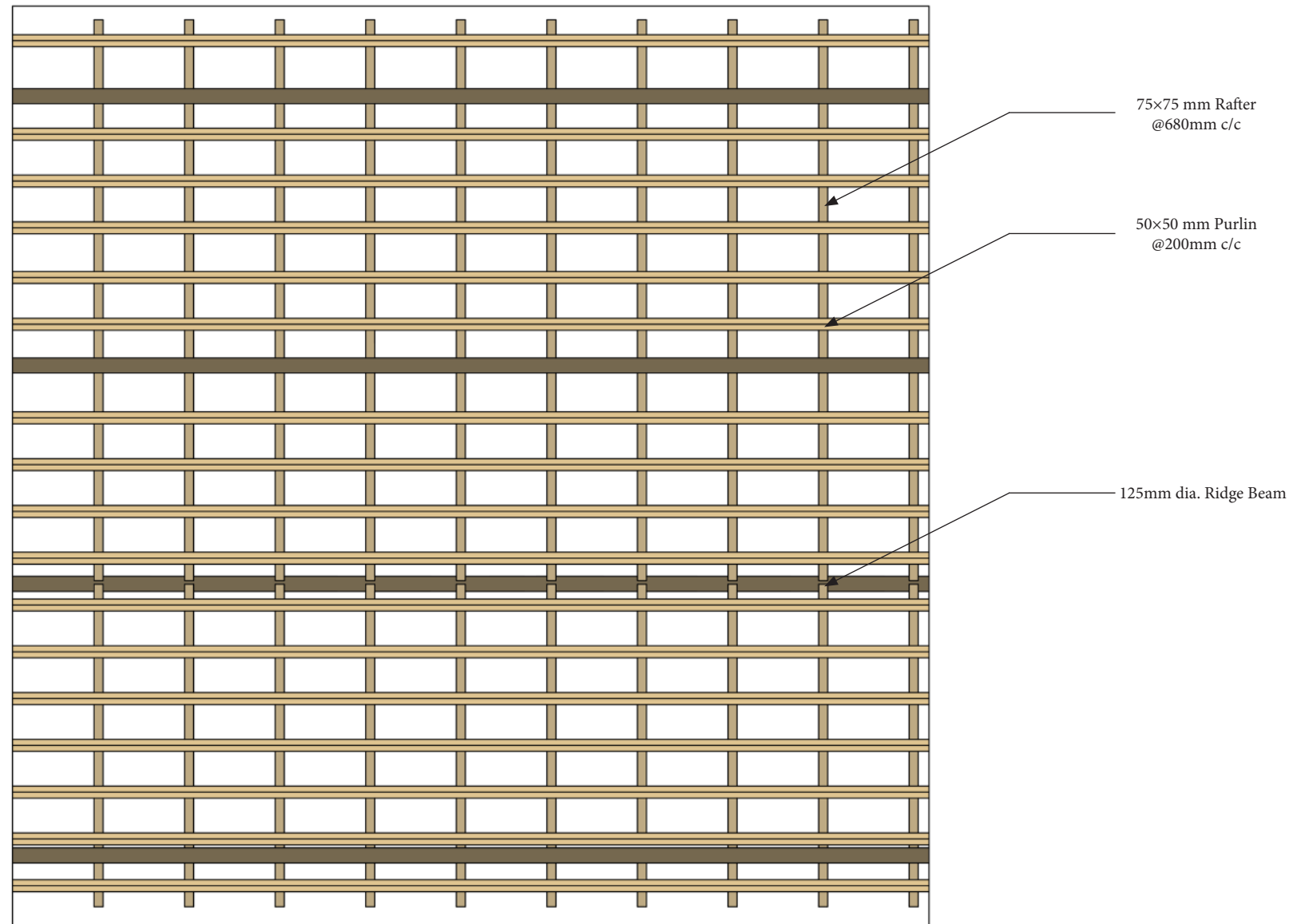


NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



Ground Floor Joist Plan

Note: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



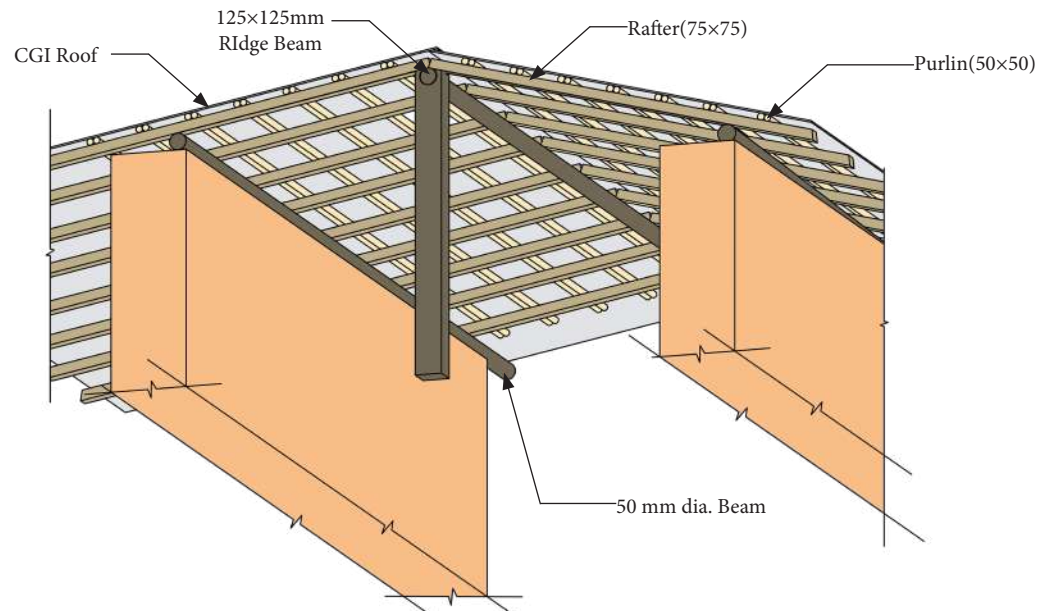
Front Elevation



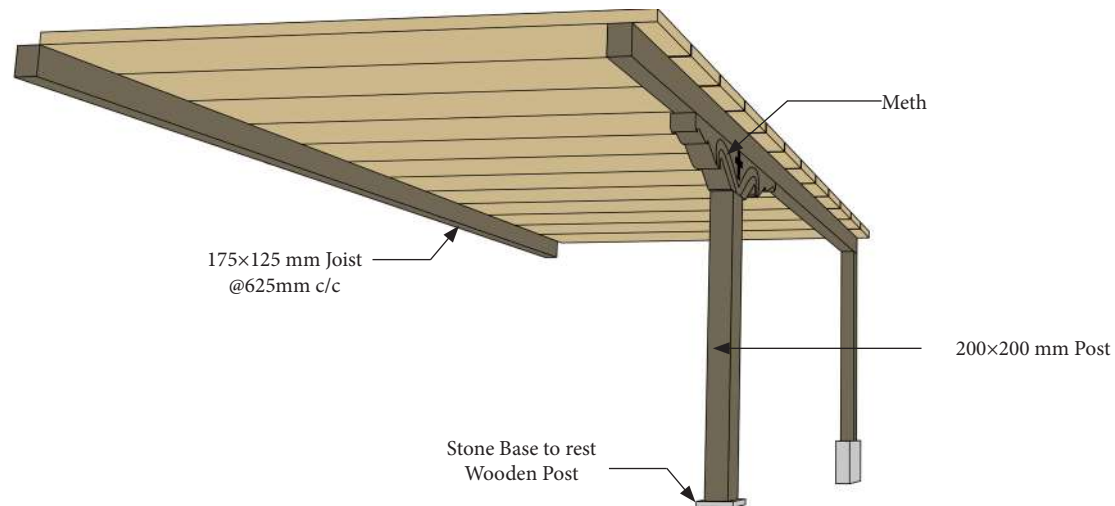
Side Elevation



Side Elevation



Roof Detail



Floor Joint Detail



Panglep Roof Structure



Typical Post and Beam Connection



Typical Post and Beam Connection

Photographs

NOTE: The typical floor joist detail illustrates timber beams supported by timber posts, with timber floor joists spanning above the beams to support the timber flooring planks.

TIPLING SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 02, DHADING

SETTLEMENT PLAN

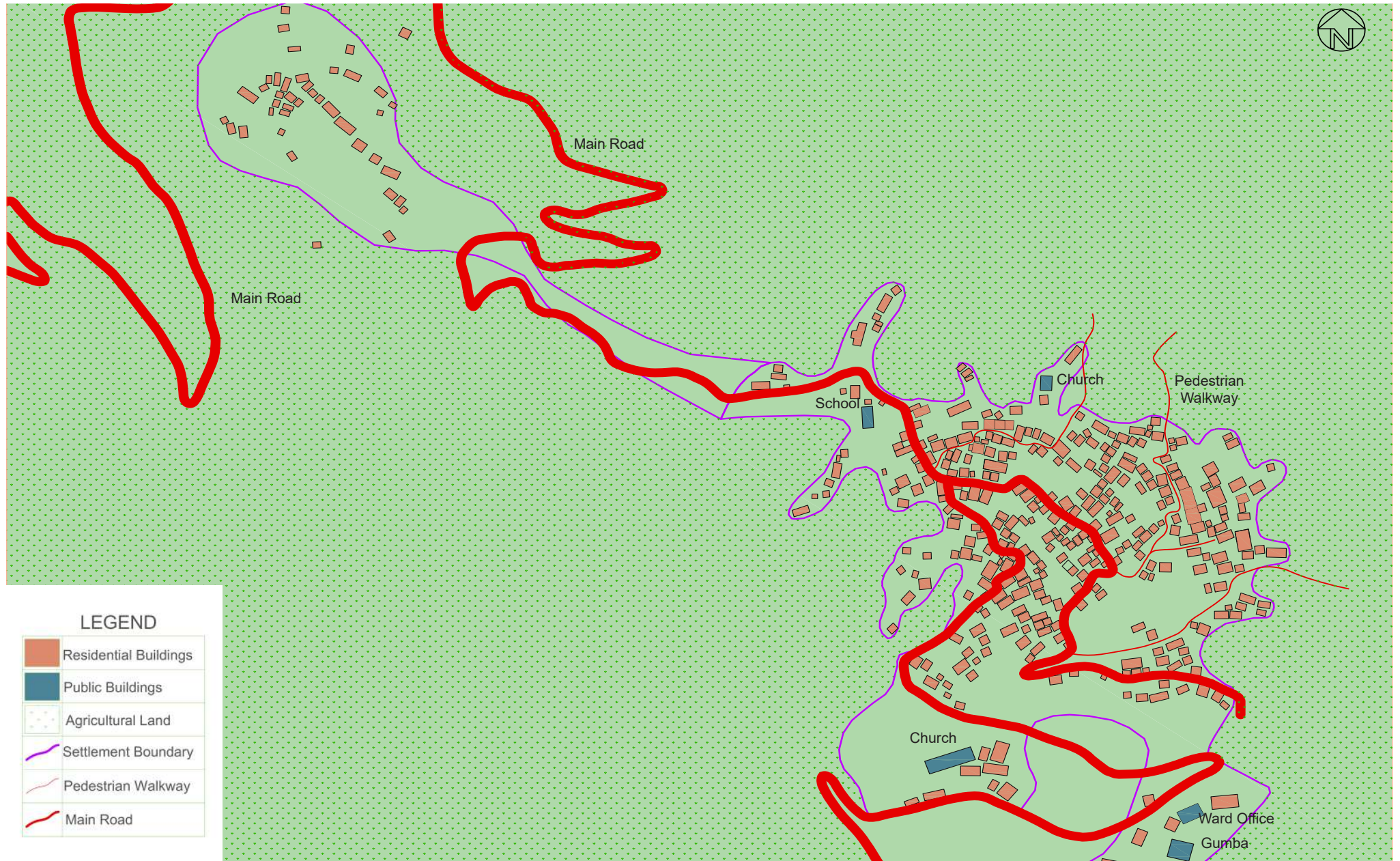


Fig: Settlement Map of Tipling

TIPLING SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-02

Measured House: BT6

1. House owner name: Pramila Tamang
2. Location: Tipling
3. Building age: 40 Yrs.
4. No. of current family member living: 3
5. Ground coverage area: 60.27 sq. m.
6. Use of building: Residence



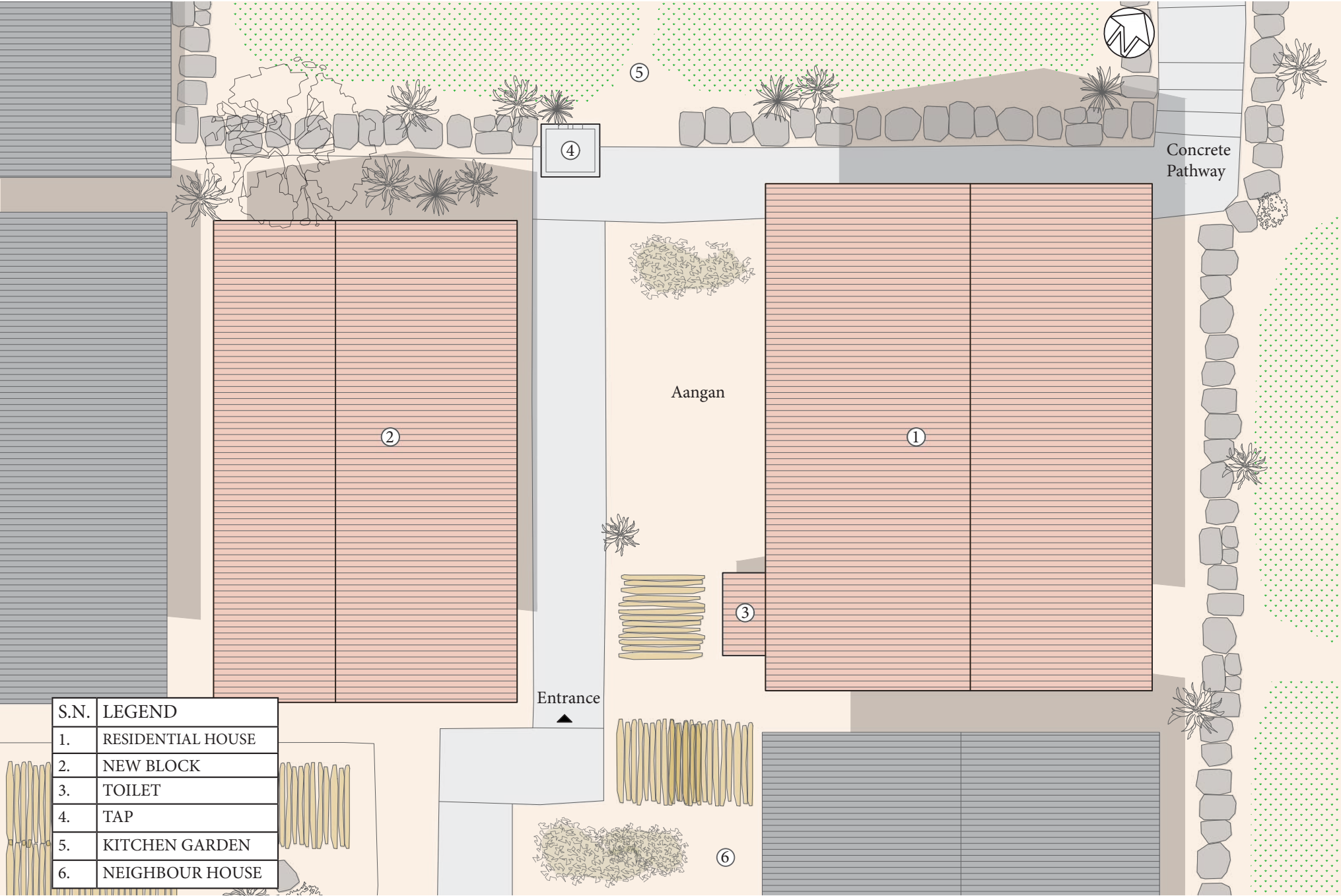
Measured House Location Map



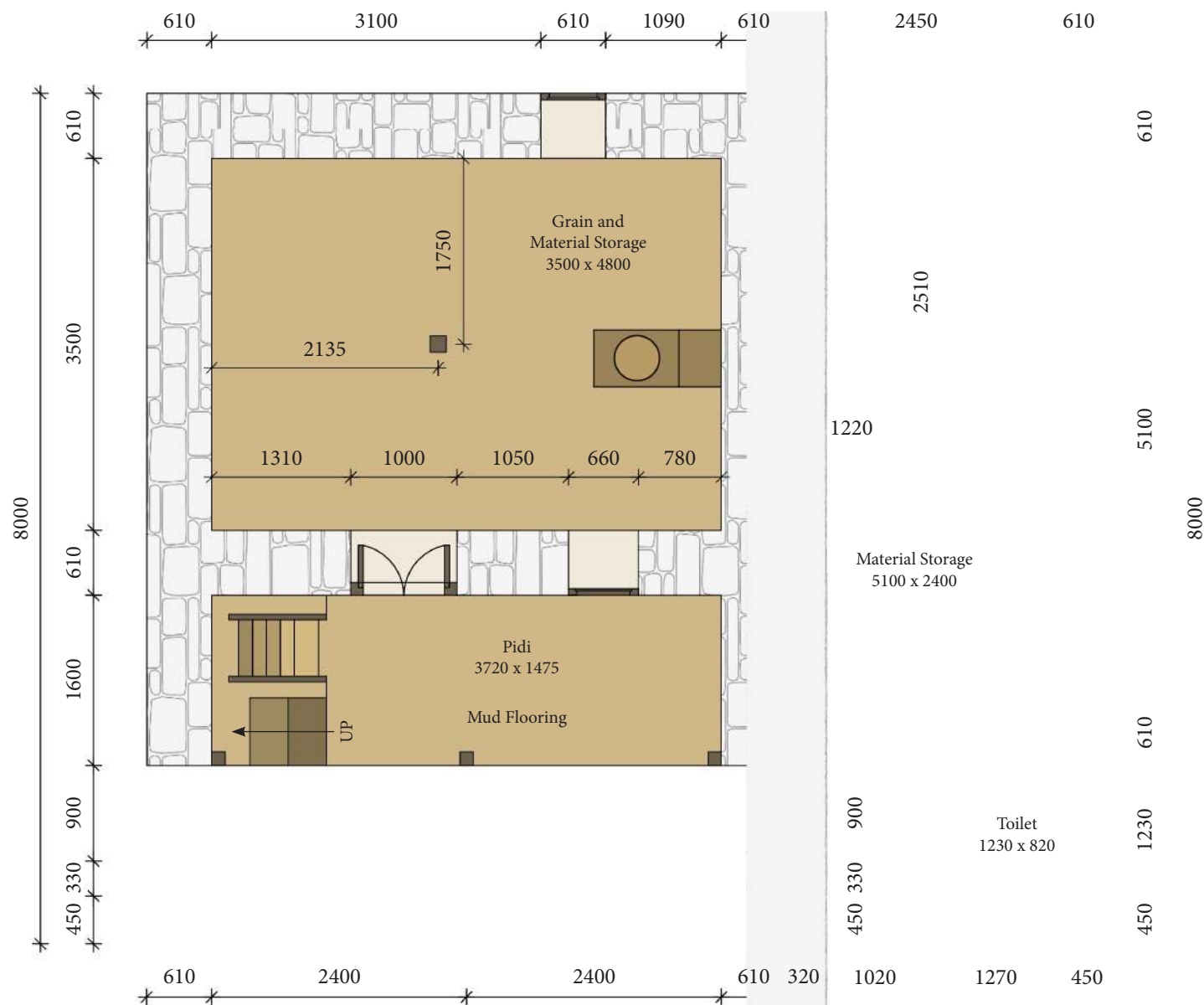
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Measured House Photos

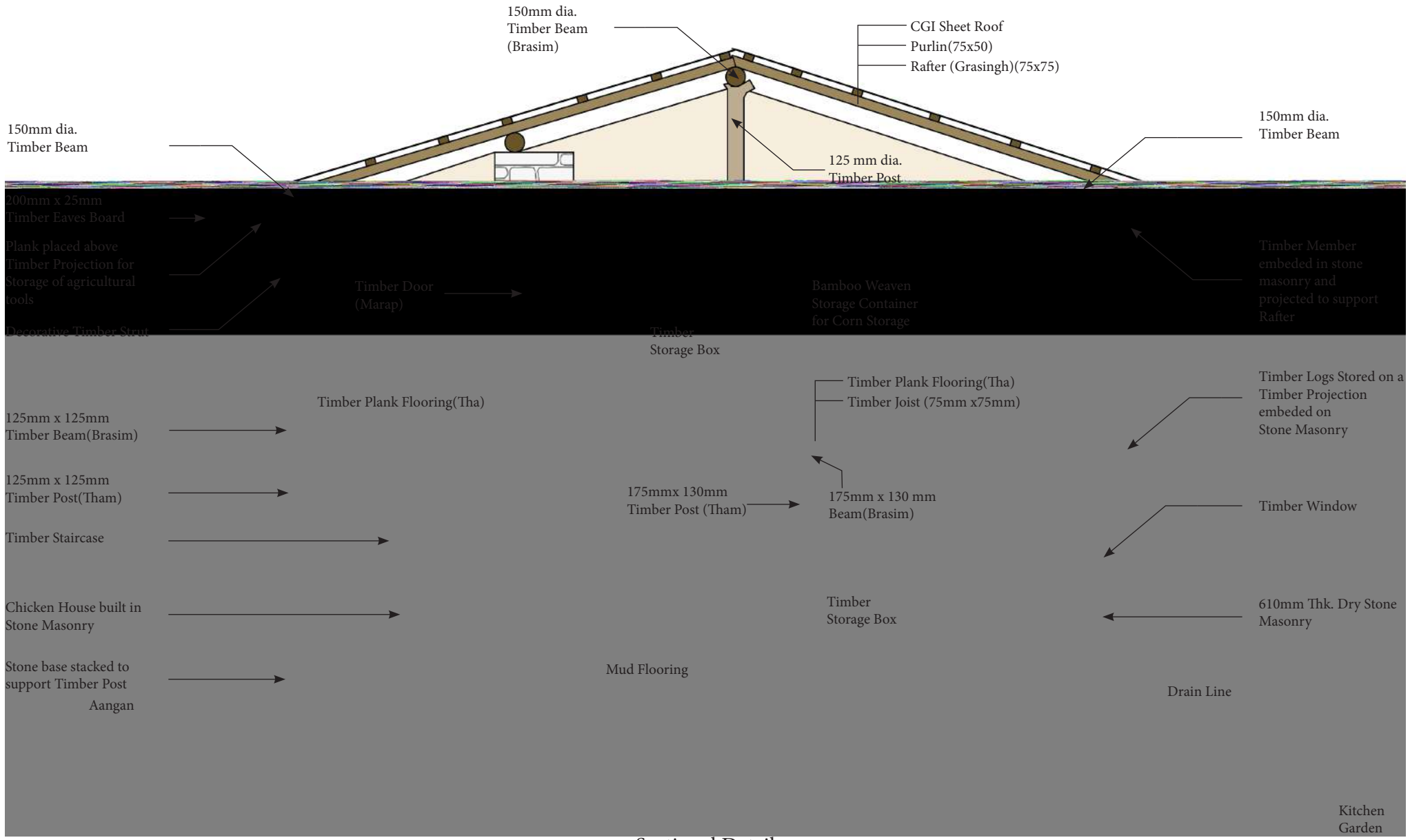


Site Plan



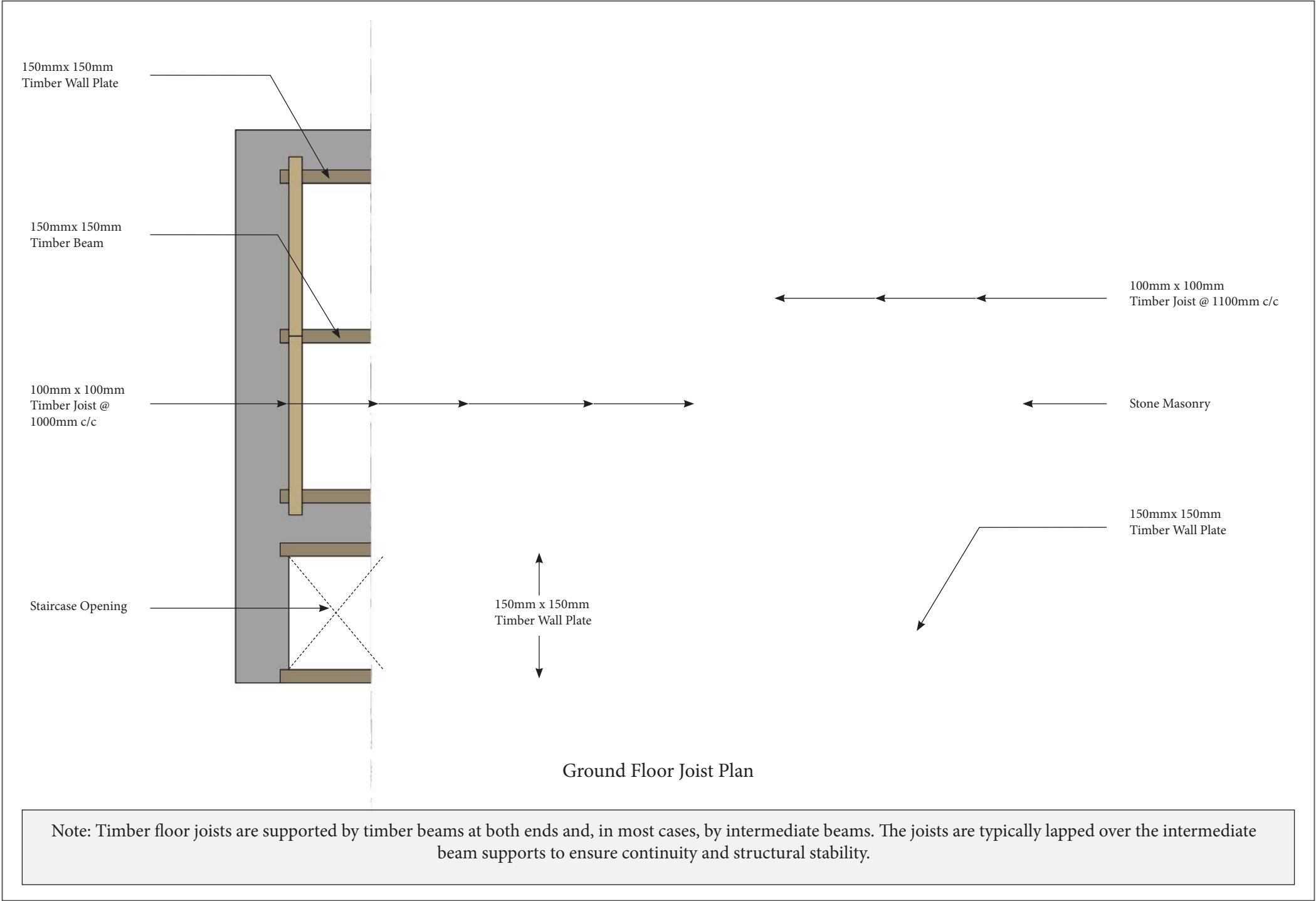
Ground Floor Plan

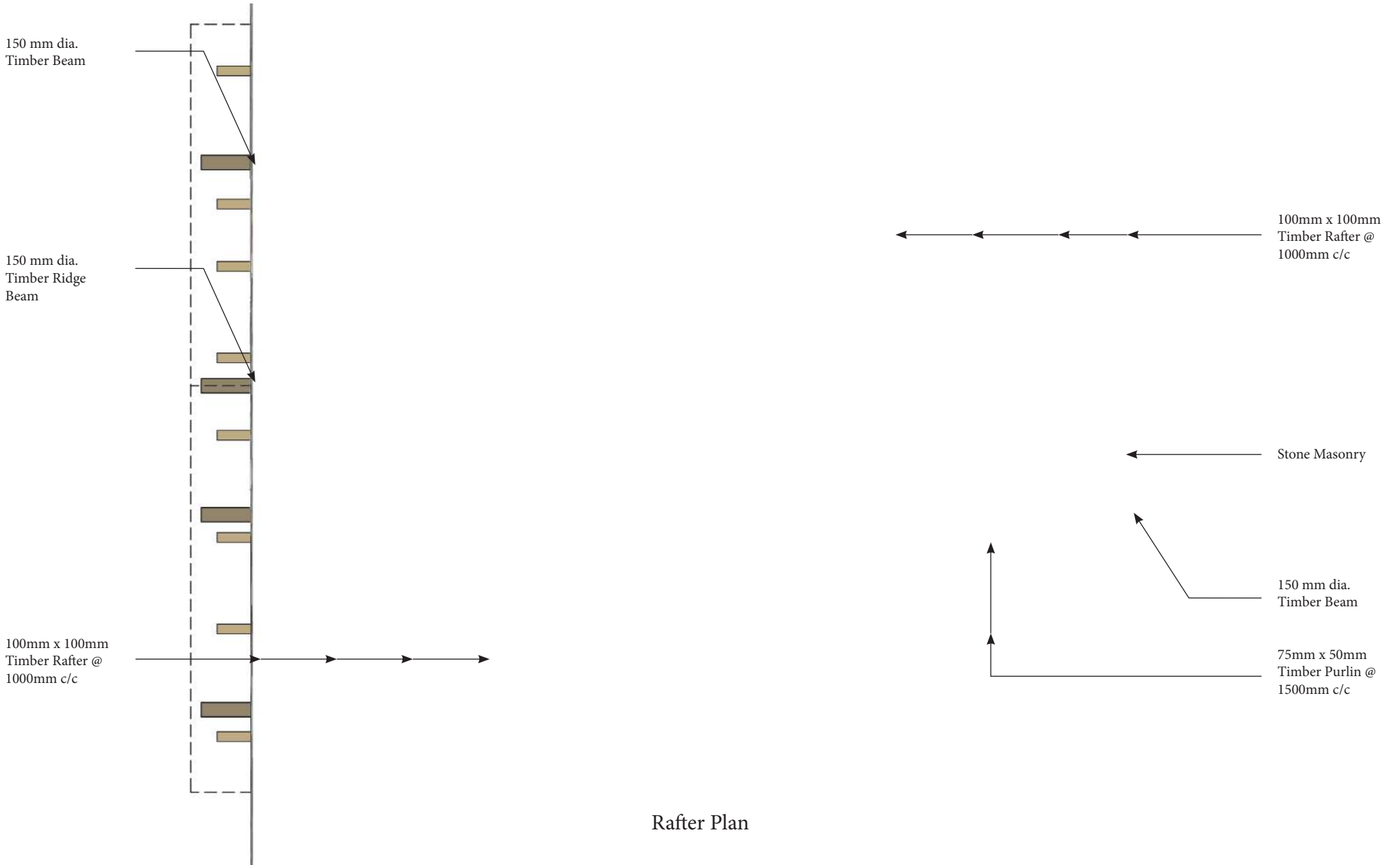
NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.





Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.

Roof Detail at Ridge



Rafter and Purlin

150mm dia Ridge Beam(Brasim)

100mm x 100mm Timber Rafter @ 1000mm c/c

75mm x 50mm Timber Purlin @ 1500mm c/c

150mmx 125mm Timber Post (Tham)

Mud Plaster

CGI Sheet Roof Covering



Typical Post and Beam Connection

Photographs

Roof Detail

Note: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

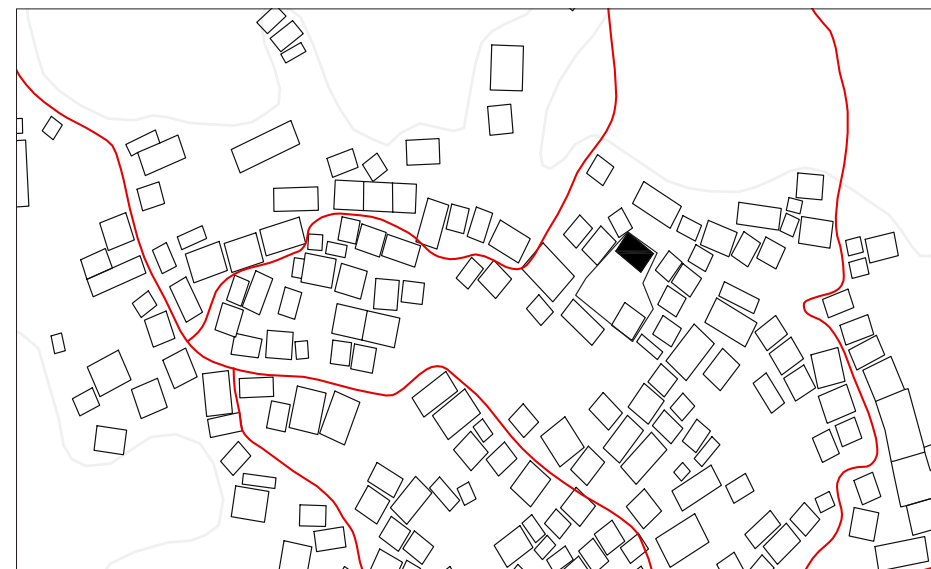
TIPLING SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-02

Measured House: BT7

1. House owner name: Pumber Lama Tamang Gonja, Mirani Ghale
2. Location: Tipling
3. Building age: 50 Yrs.
4. No. of current family member living: 2
5. Ground floor area: 48.9 sq. m.
6. Use of building: Residence



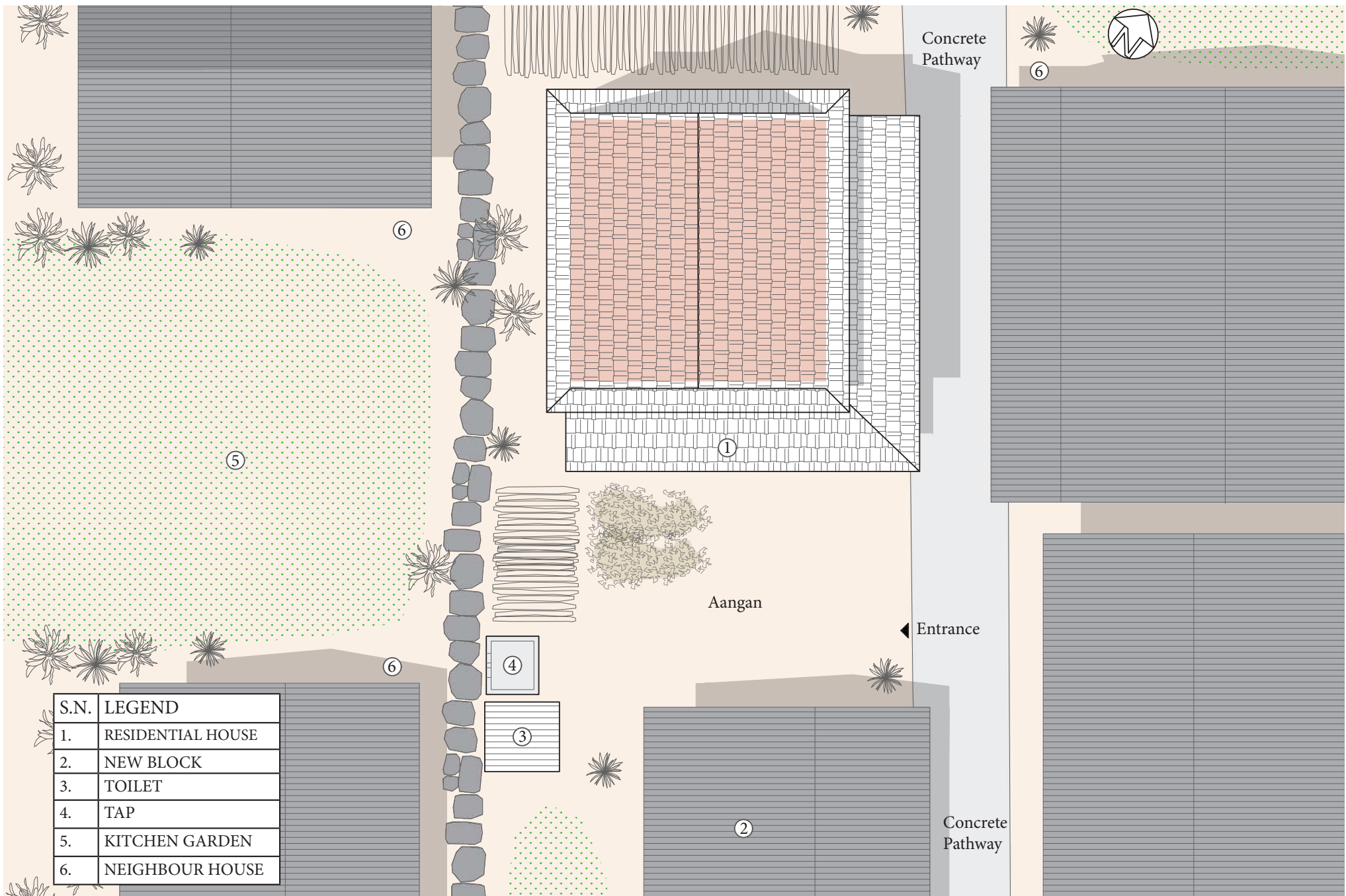
Measured House Location Map



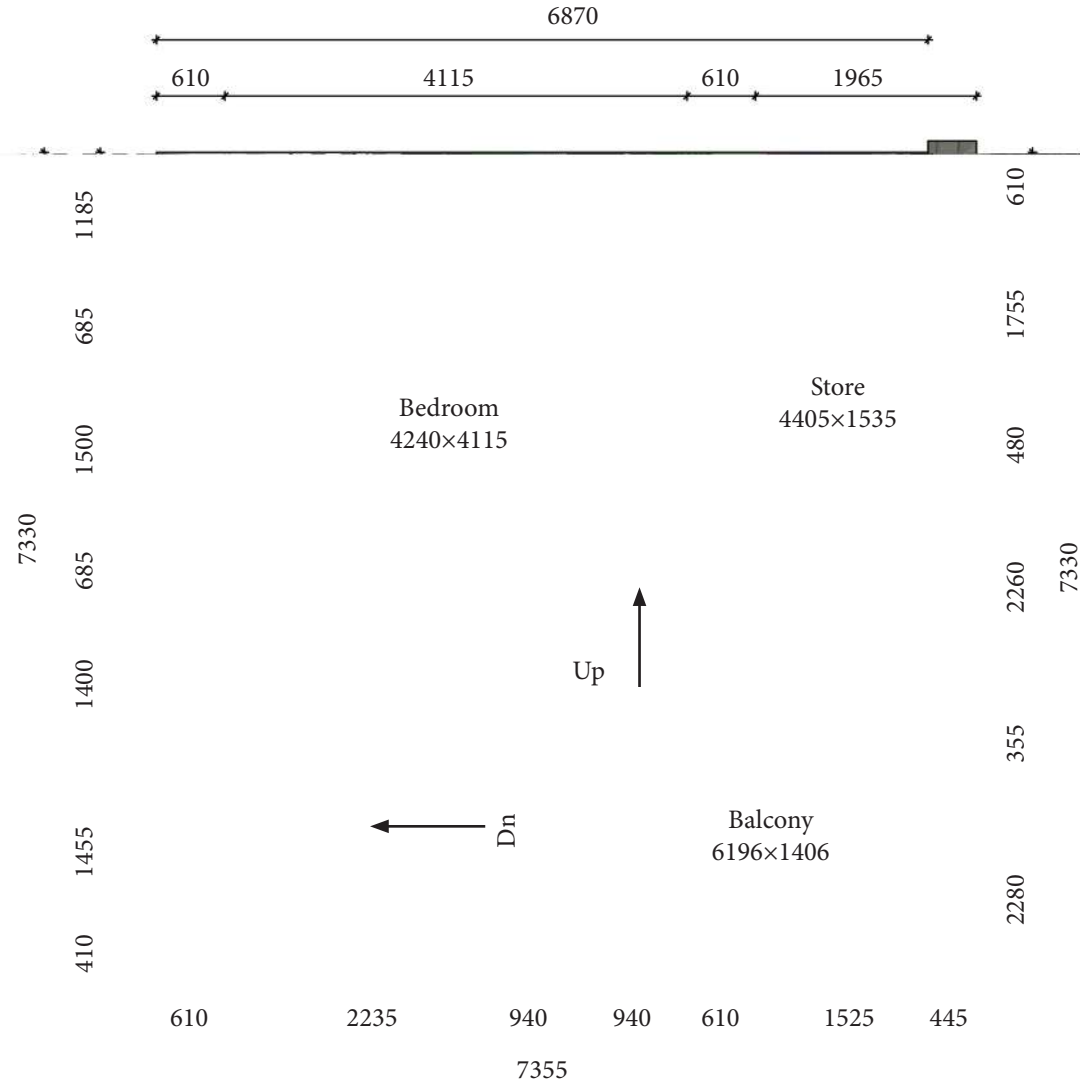
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Measured House Photos

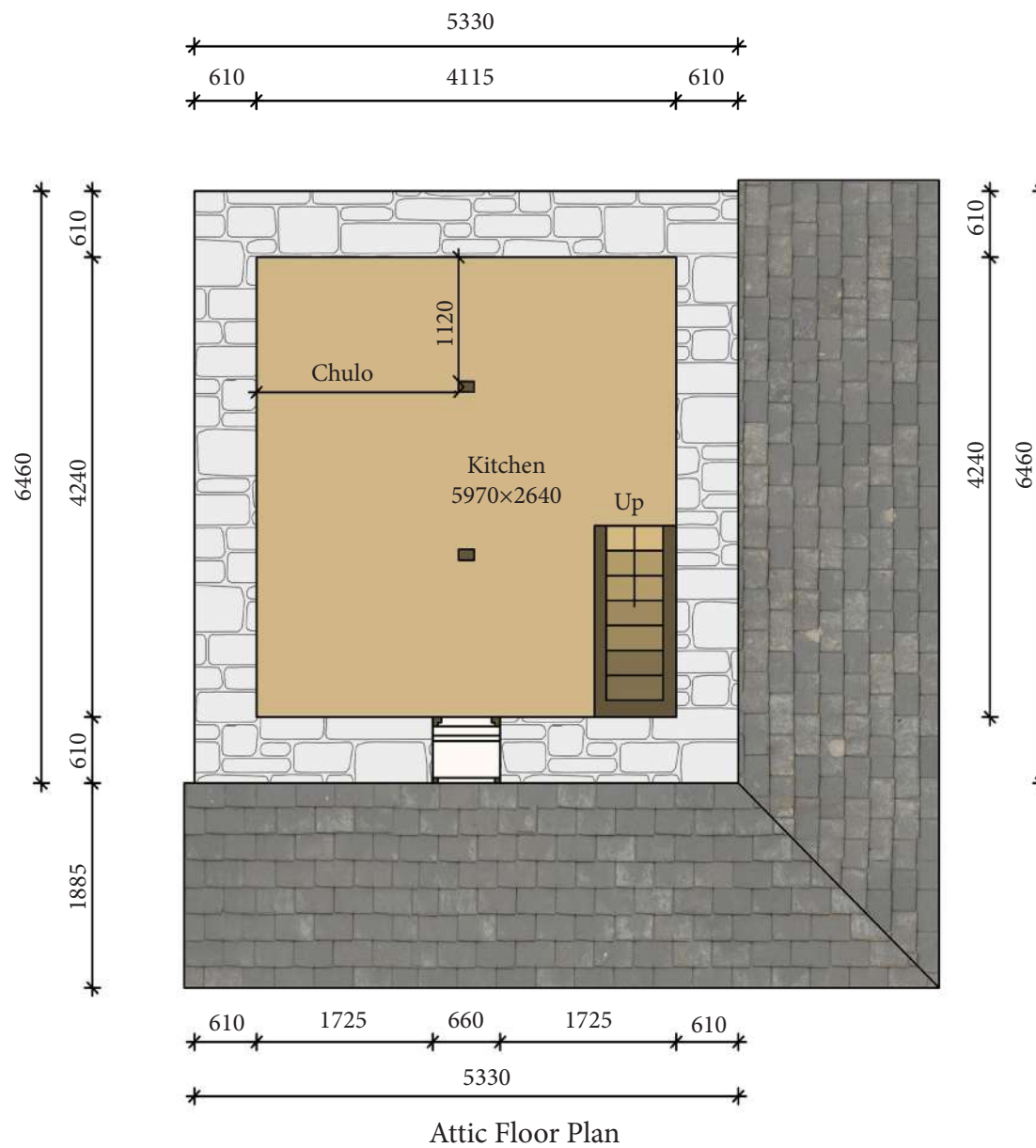


Site Plan



First Floor Plan

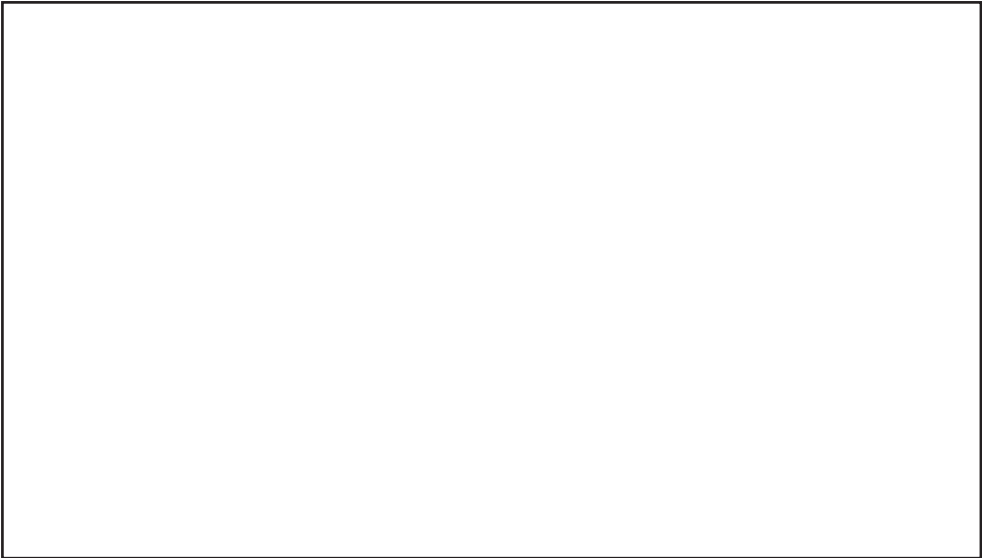
NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



NOTE: The attic is typically a low-height, single-room space used for storing grain and other materials. It is generally accessed by a timber staircase located at one corner of the house.

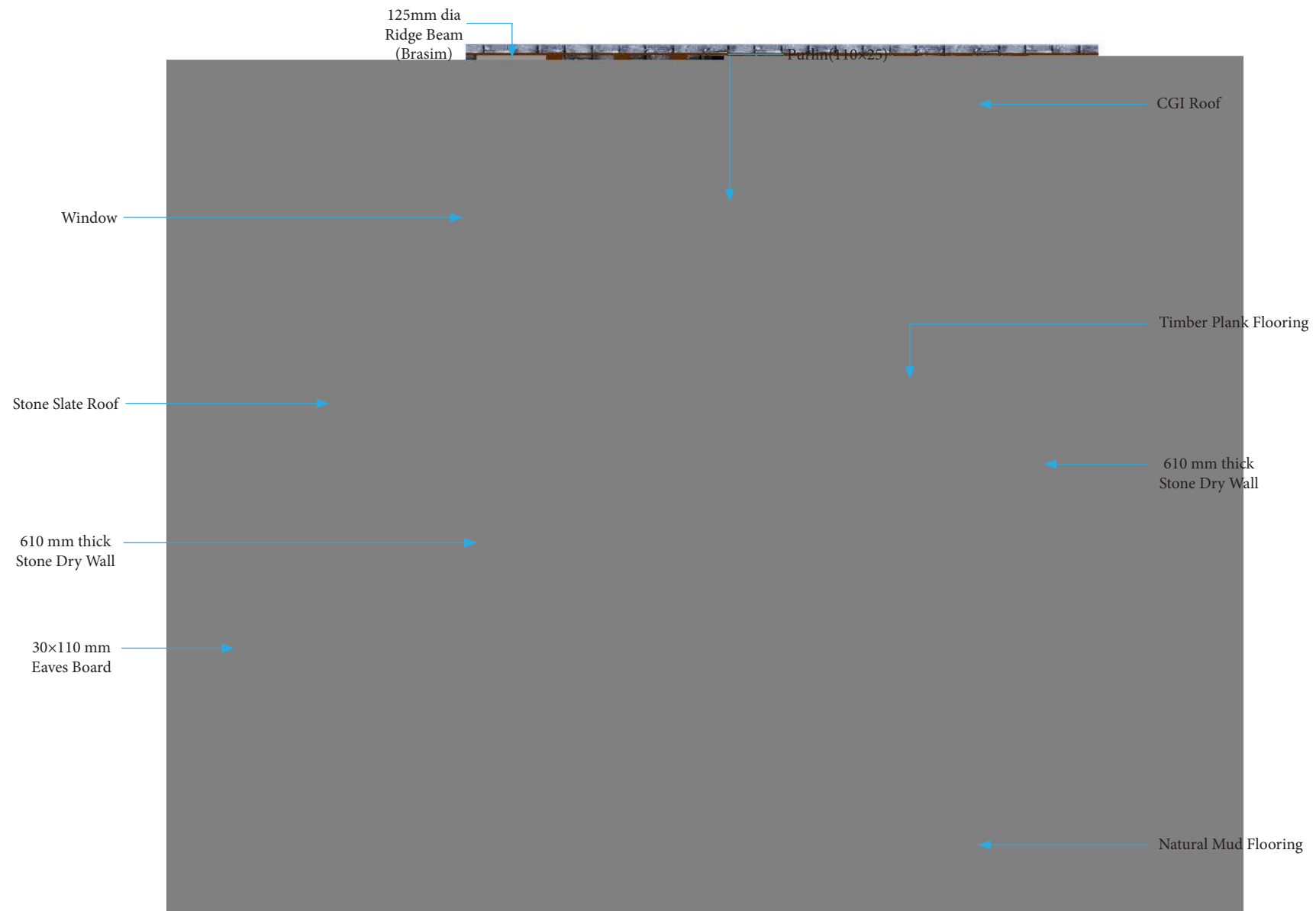


Front Elevation



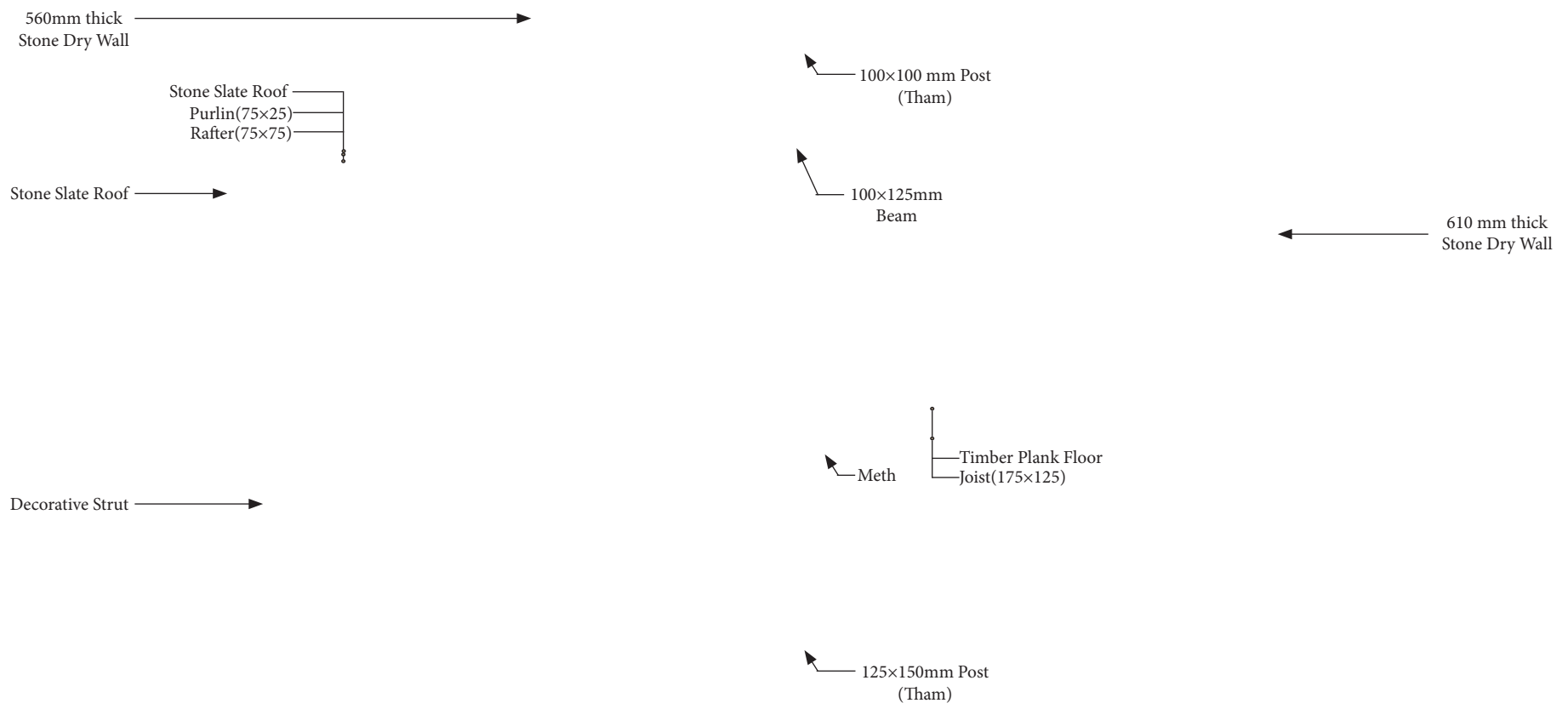
Side Elevation

Side Elevation



Sectional Perspective View

NOTE: The ground floor is primarily used for storing firewood and housing livestock. The first floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions often coexist within an open plan and are sometimes separated by timber plank partitions.



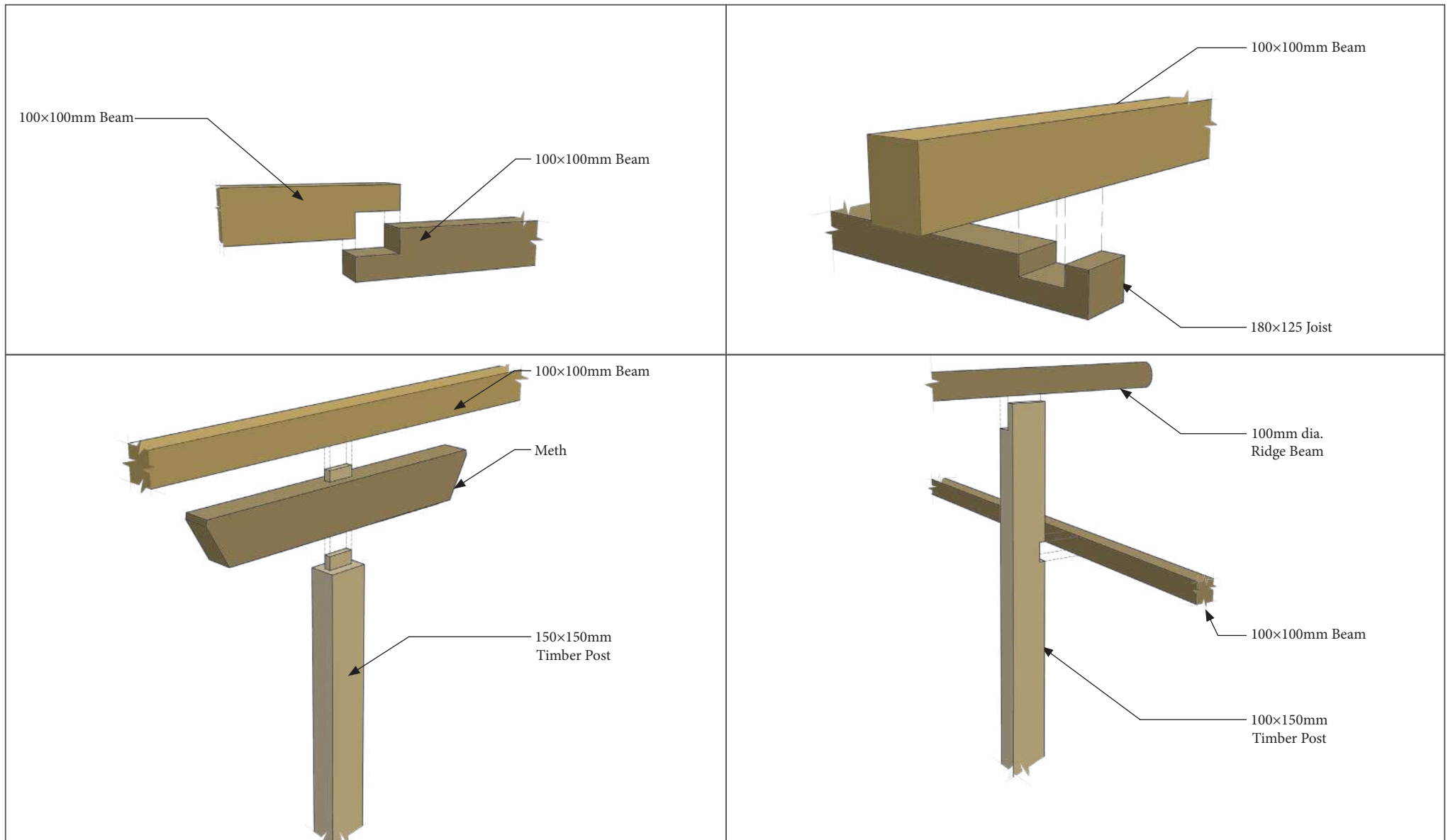
Sectional Detail

NOTE: The house was renovated following the earthquake, during which the balcony roof was extended along the side elevation. The roof is covered with square slate tiles, typically measuring 300 × 300 mm, laid diagonally and supported by timber rafters and purlins.



First Floor Joist Plan

NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Typical Timber Connection

NOTE: This typical timber connection detail illustrates the overlap joint used for horizontal members and the timber post-to-beam connection. The members are joined using traditional mortise-and-tenon joints without the use of iron nails.

SERTUNG SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 03, DHADING

SETTLEMENT PLAN

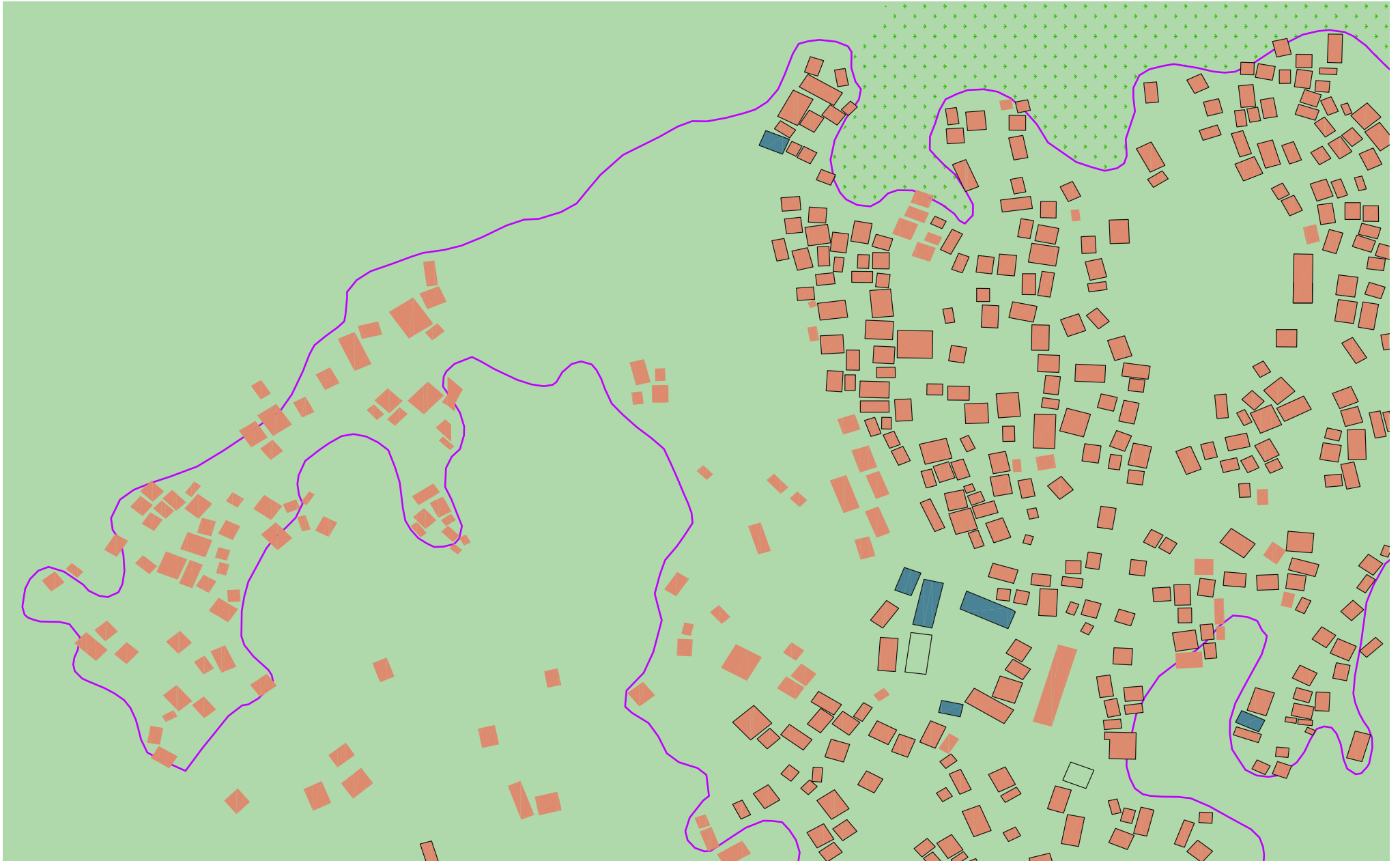
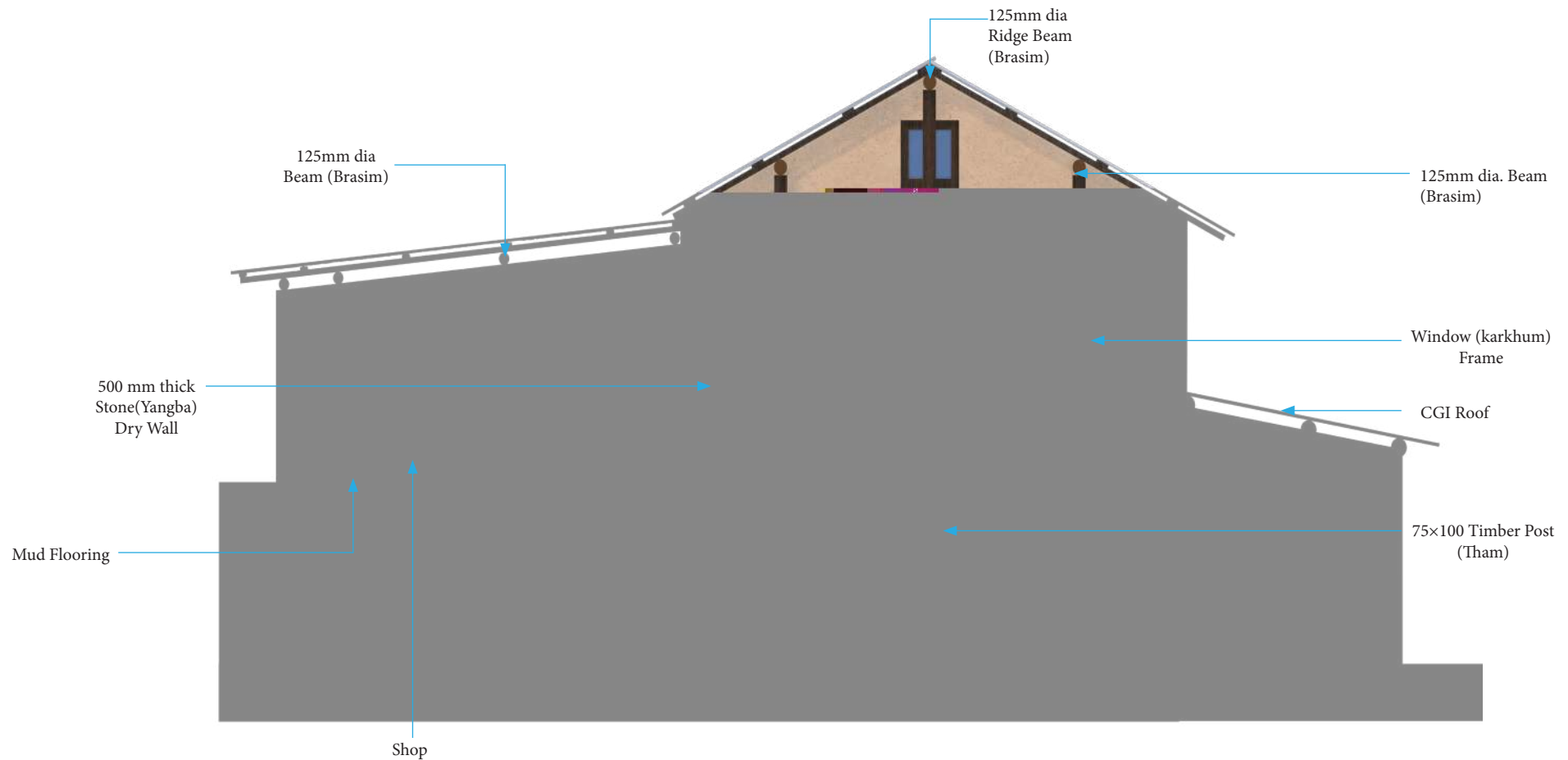
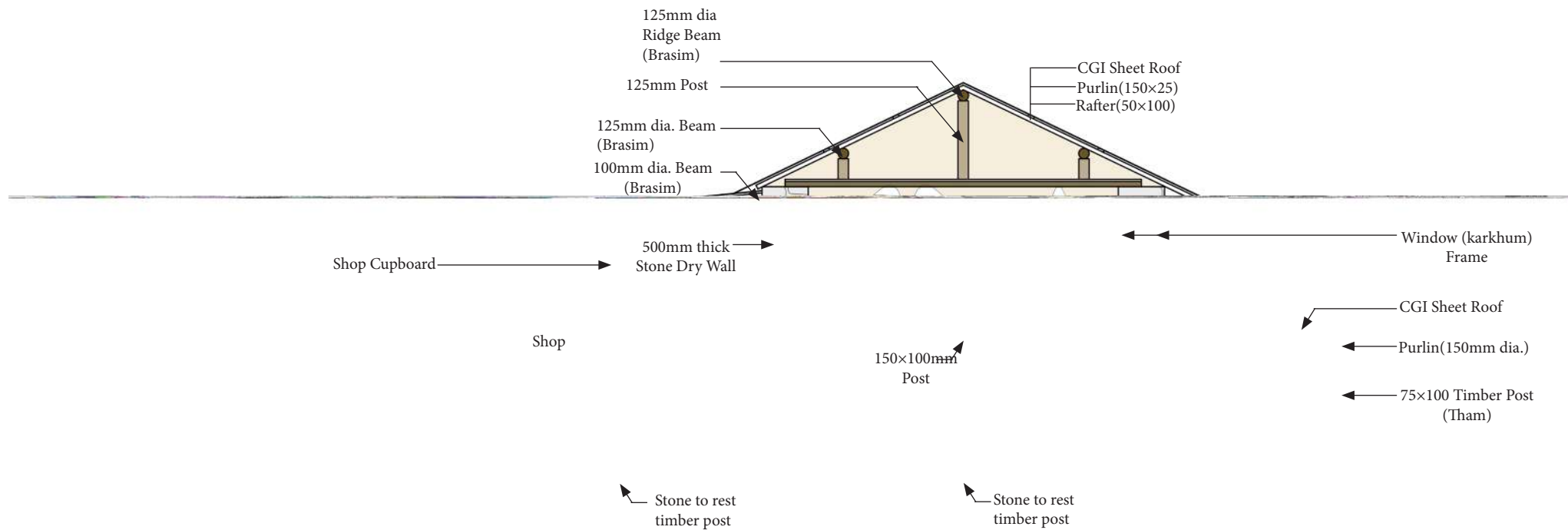


Fig: Settlement Map of Sertung



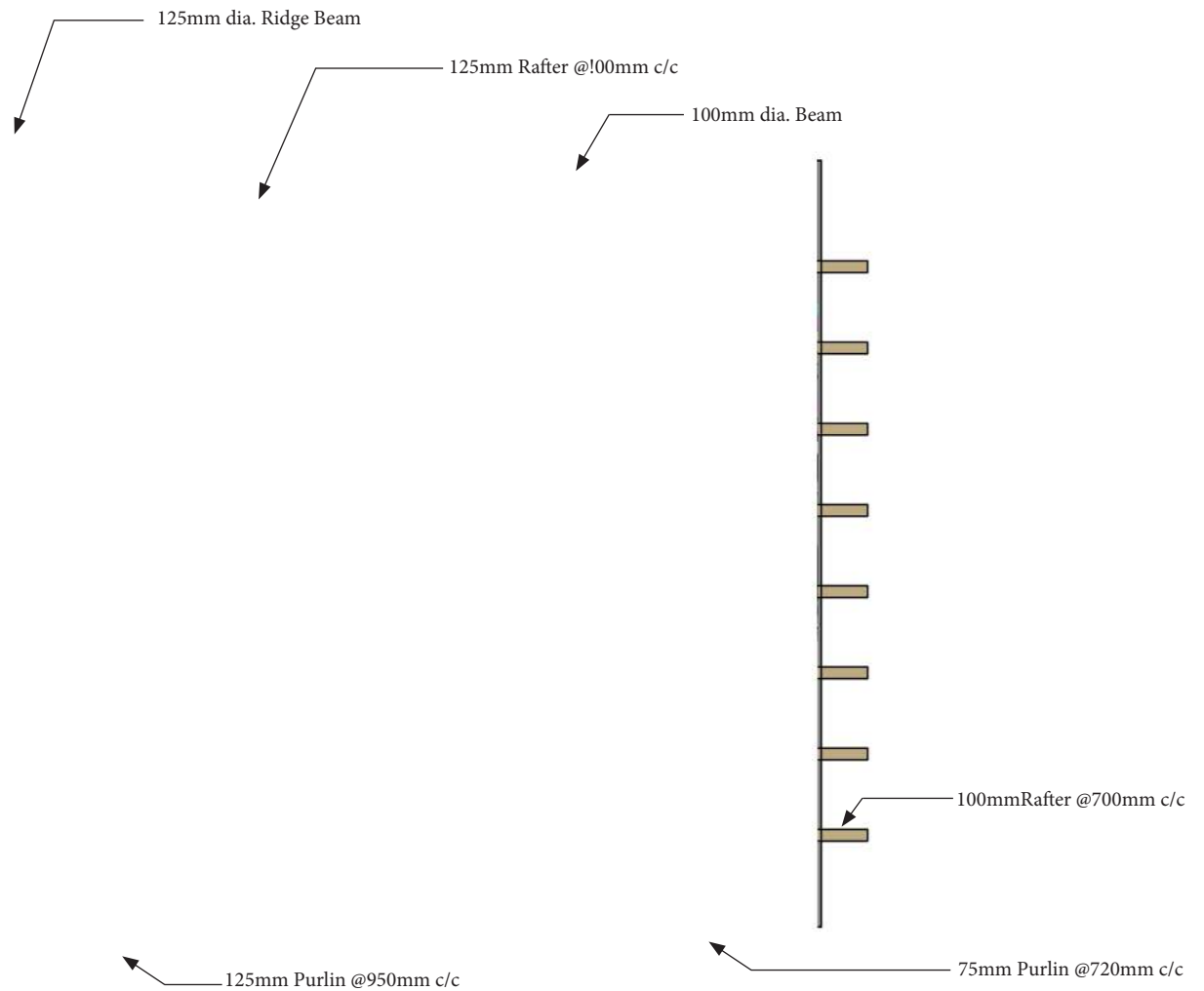
Sectional Perspective View

NOTE: The ground floor is primarily used for storing firewood and housing livestock. The first floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions often coexist within an open plan and are sometimes separated by timber plank partitions.



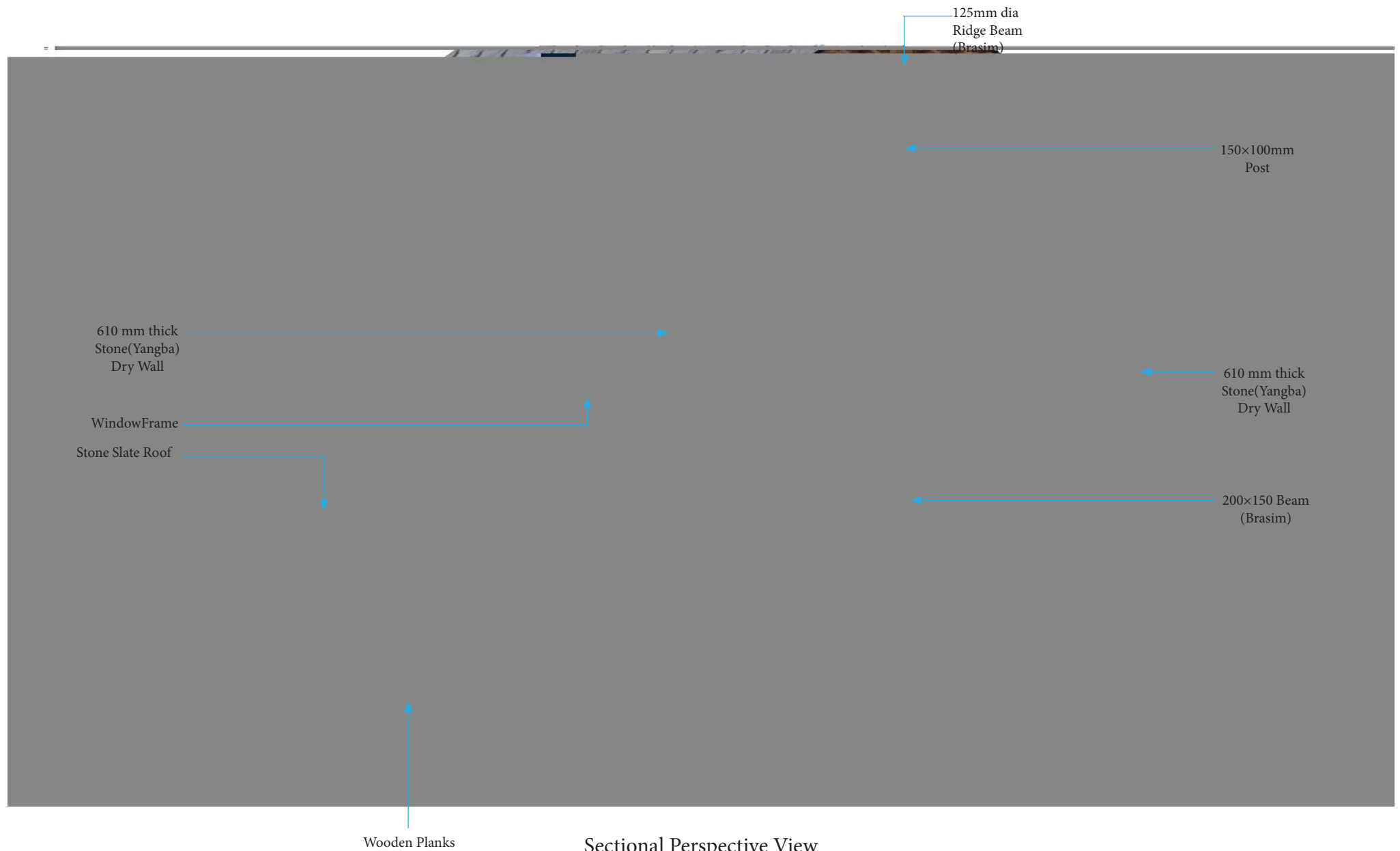
Sectional Detail

NOTE: The house was renovated following the earthquake. The shop wing and porch projection are the expansion after earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



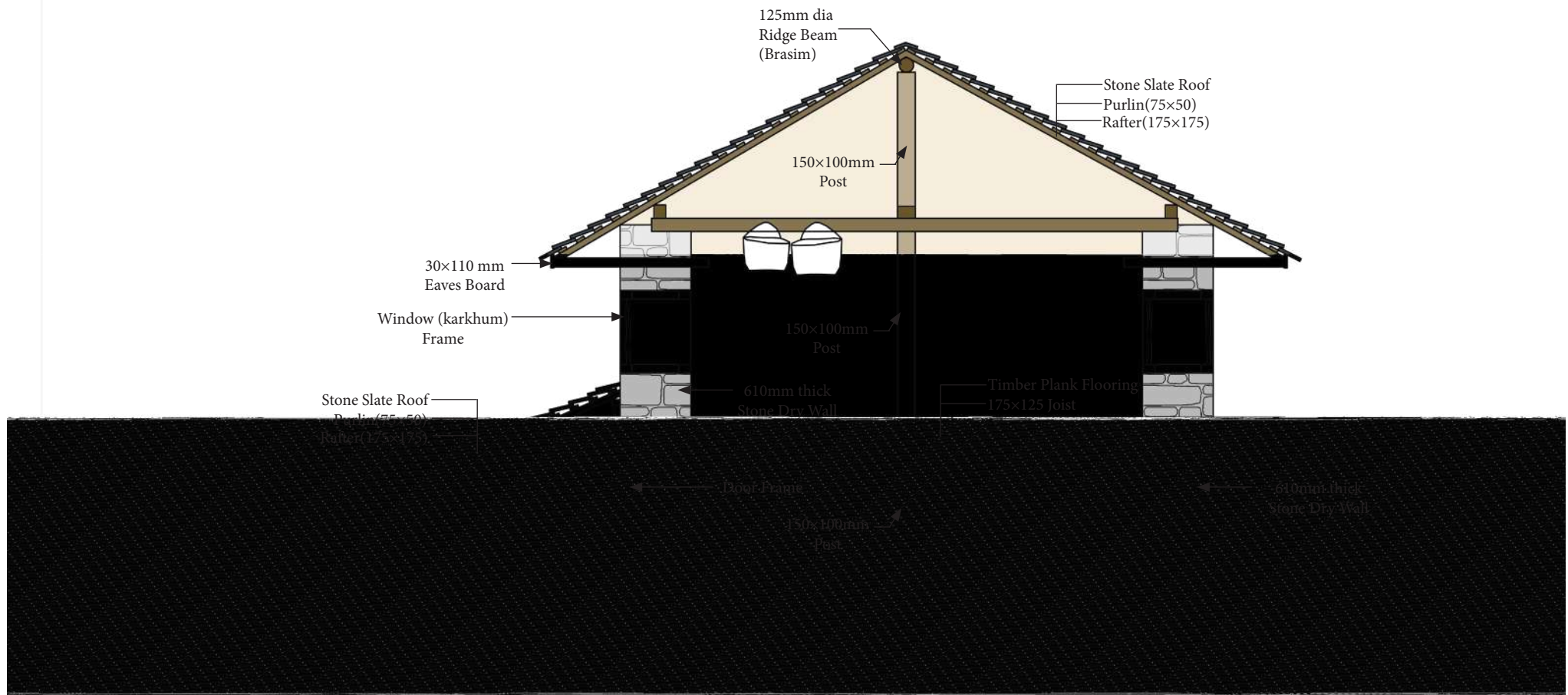
Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



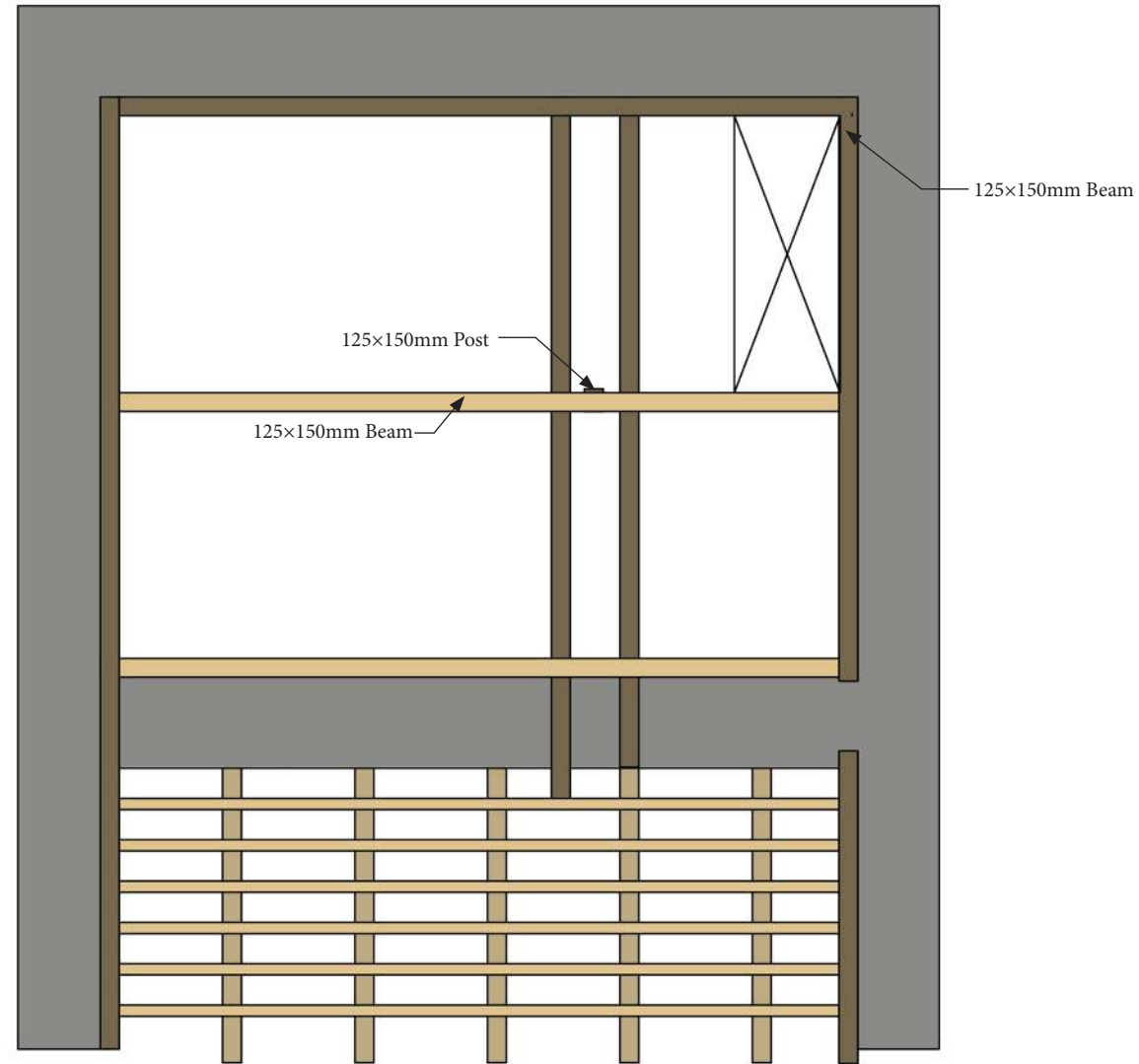
Sectional Perspective View

NOTE: The ground floor is primarily used for storing firewood and housing livestock. The first floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions often coexist within an open plan and are sometimes separated by timber plank partitions.



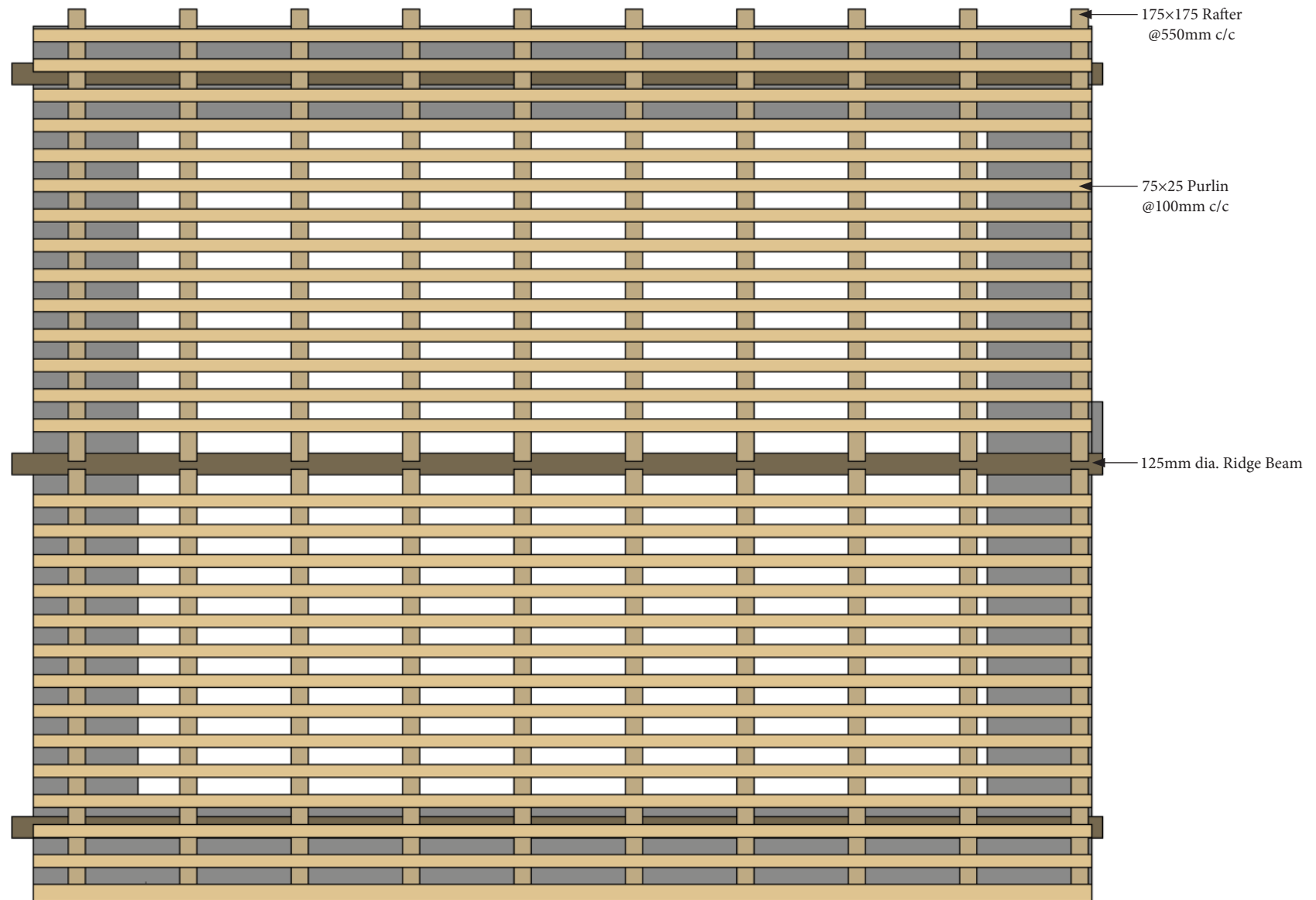
Sectional Detail

NOTE: The house was renovated following the earthquake. The roof is covered with square slate tiles, typically measuring 300×300 mm, laid diagonally and supported by timber rafters and purlins.



First Floor Joist Plan

NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



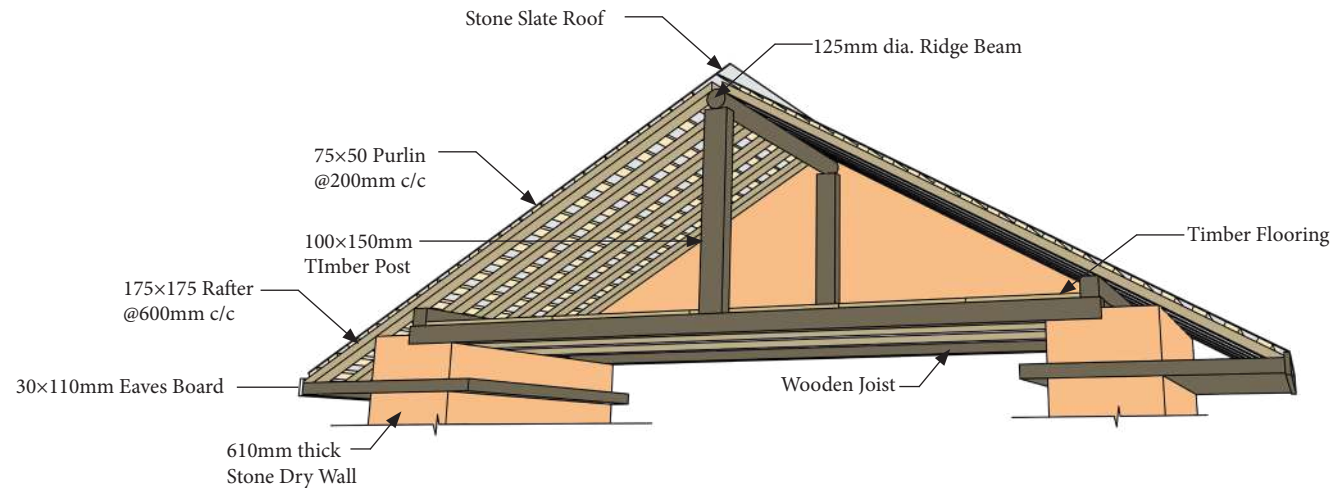
Front Elevation



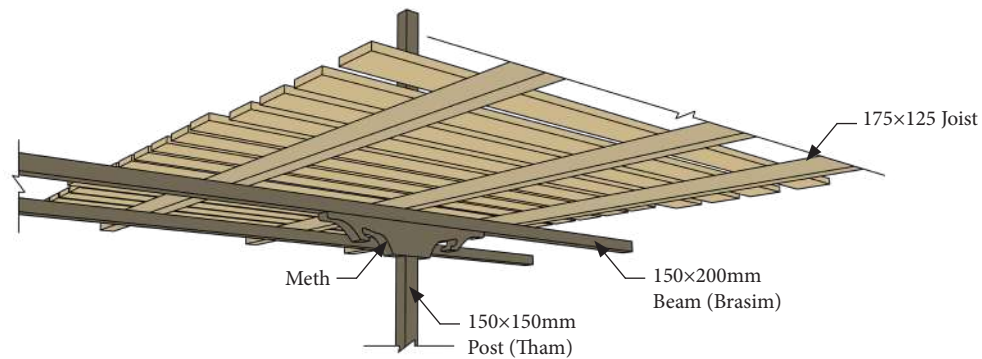
Side Elevation



Side Elevation



Roof Detail



Floor Joint Detail

Structural Timber Connections



Attic Storage Space



Typical Post and Beam Connection



Typical Post and Beam Connection

Photographs

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

BORANG SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 04, DHADING

SETTLEMENT PLAN

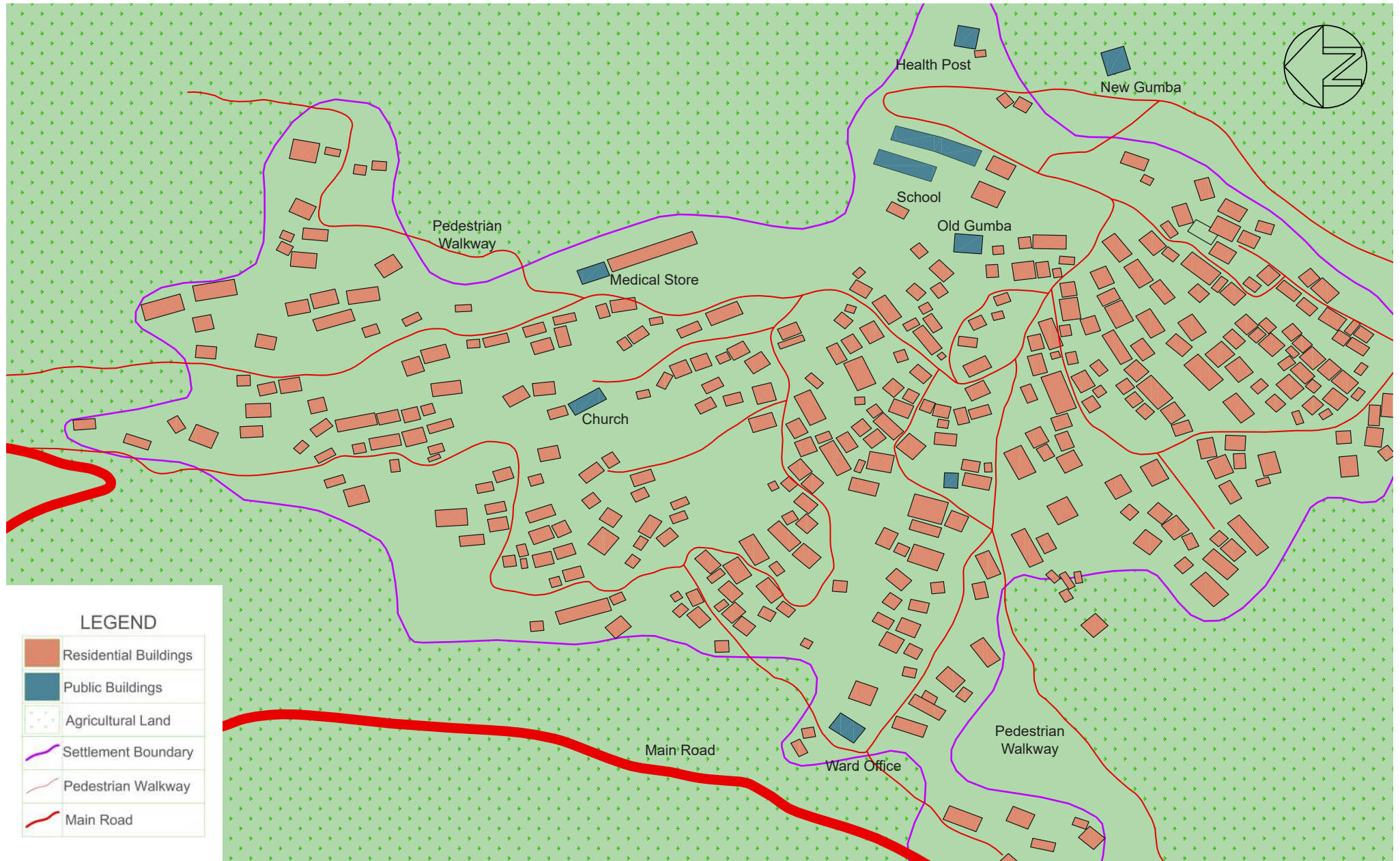


Fig: Settlement Map of Borang

BORANG SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-04

Measured House: BT13

1. House owner name: Khumjit Maya Tamang , Mangjit Tamang
2. Location: Borang
3. Building age: 28 Yrs.
4. No. of current family member living: 3
5. Ground coverage area: 99.28 sq. m.
6. Use of building: Residence



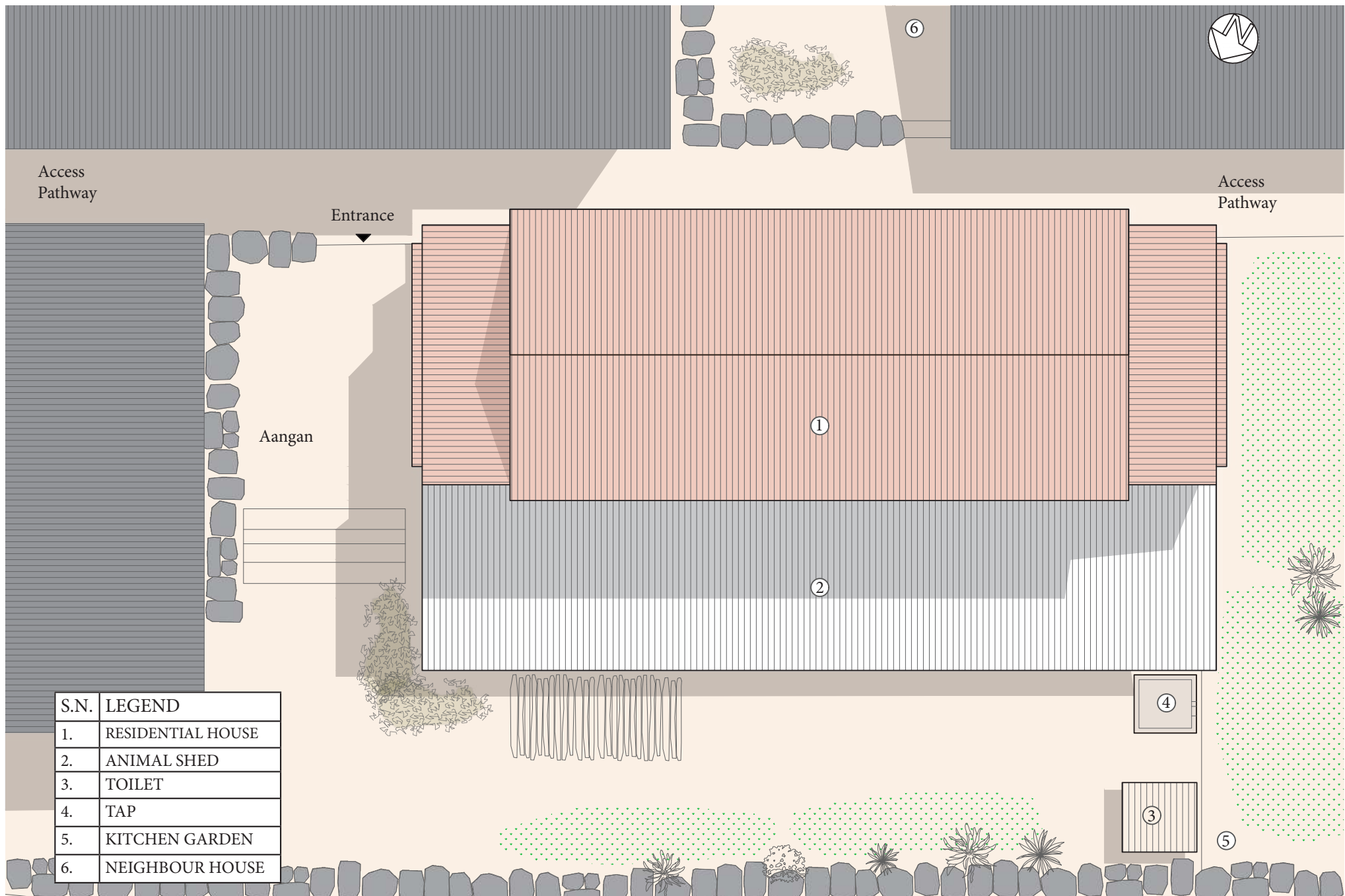
Measured House Location Map



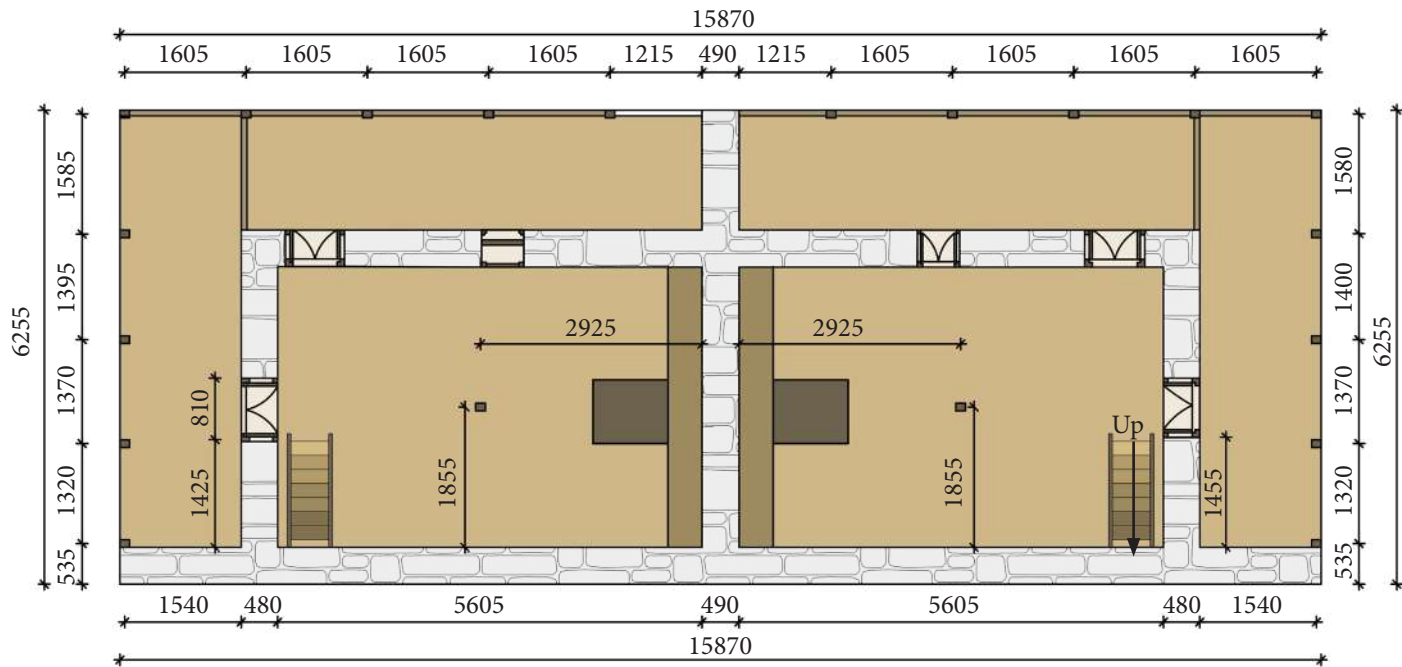
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Measured House Photos

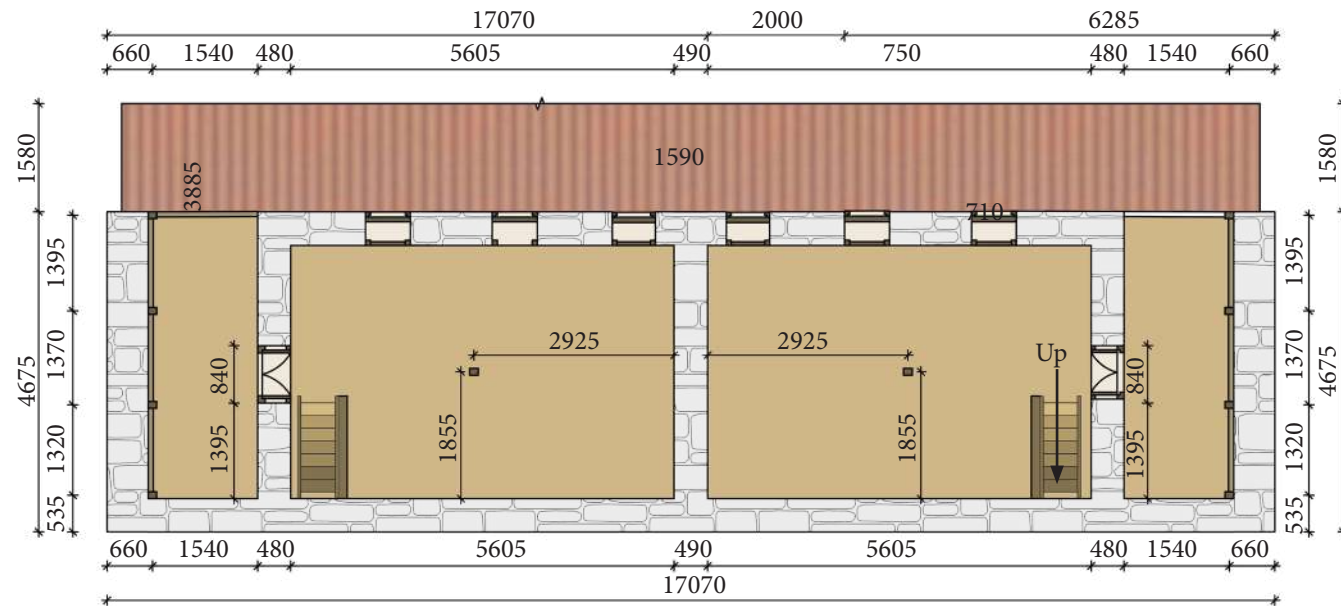


Site Plan



Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



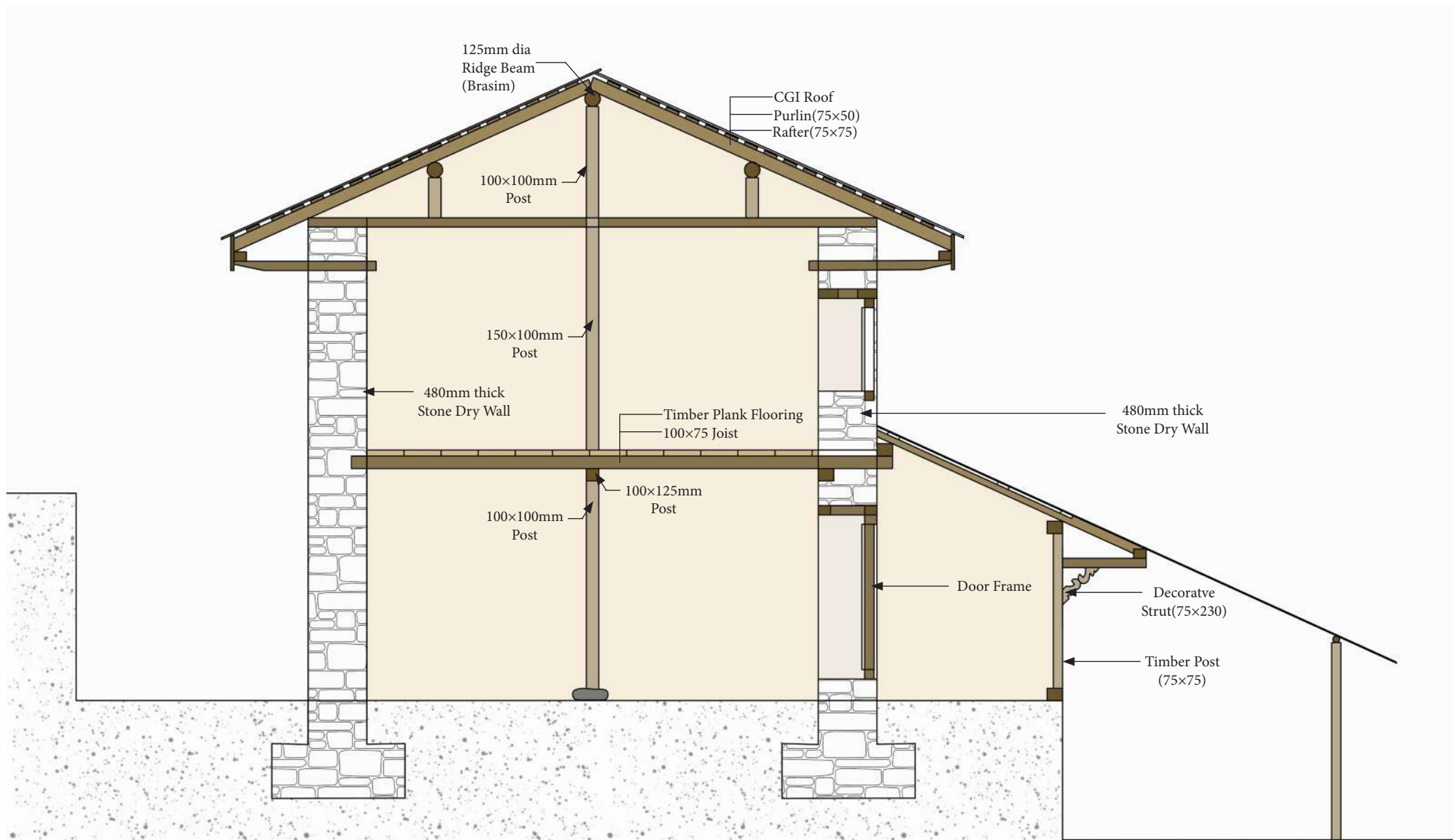
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



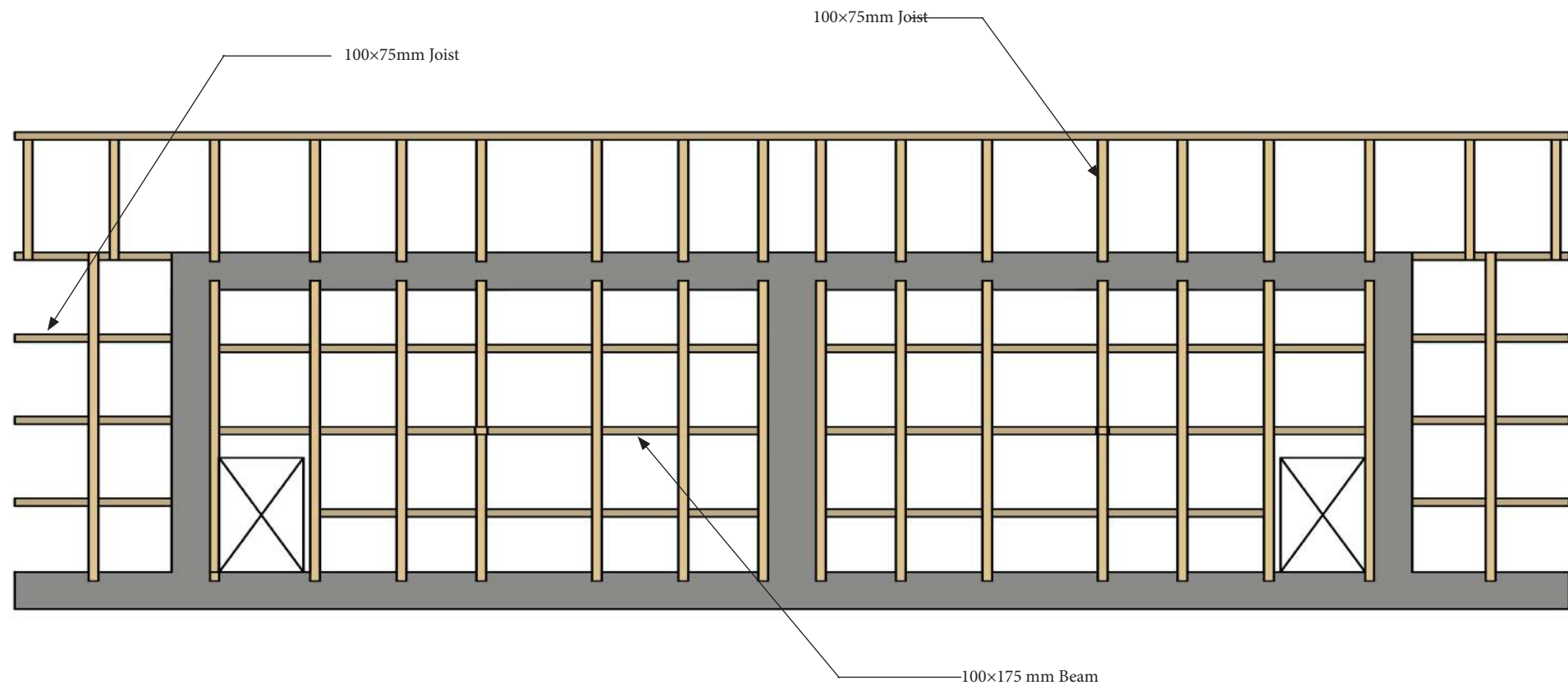
Sectional Perspective View

NOTE: The ground floor is primarily used for storing firewood and housing livestock. The first floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions often coexist within an open plan and are sometimes separated by timber plank partitions.



Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.

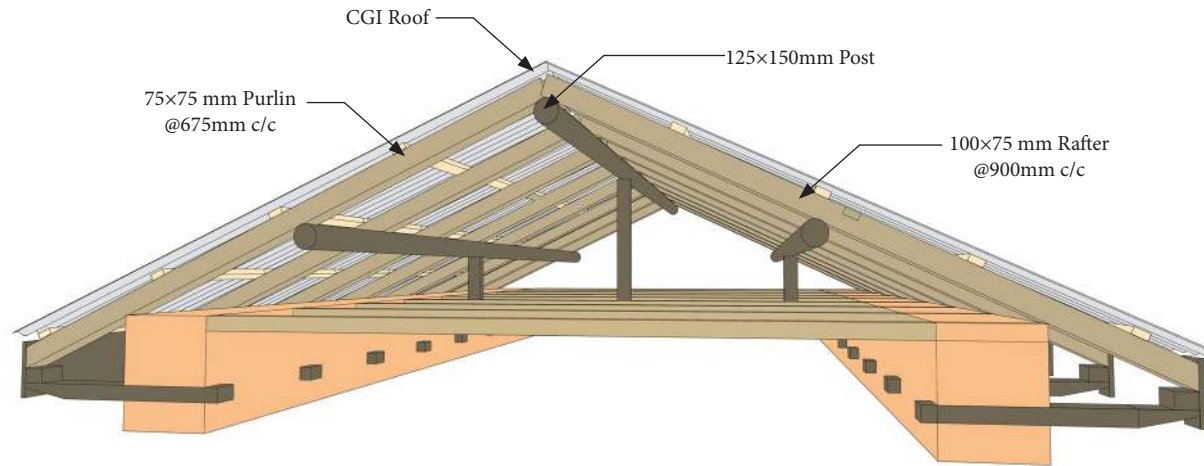


First Floor Joist Plan

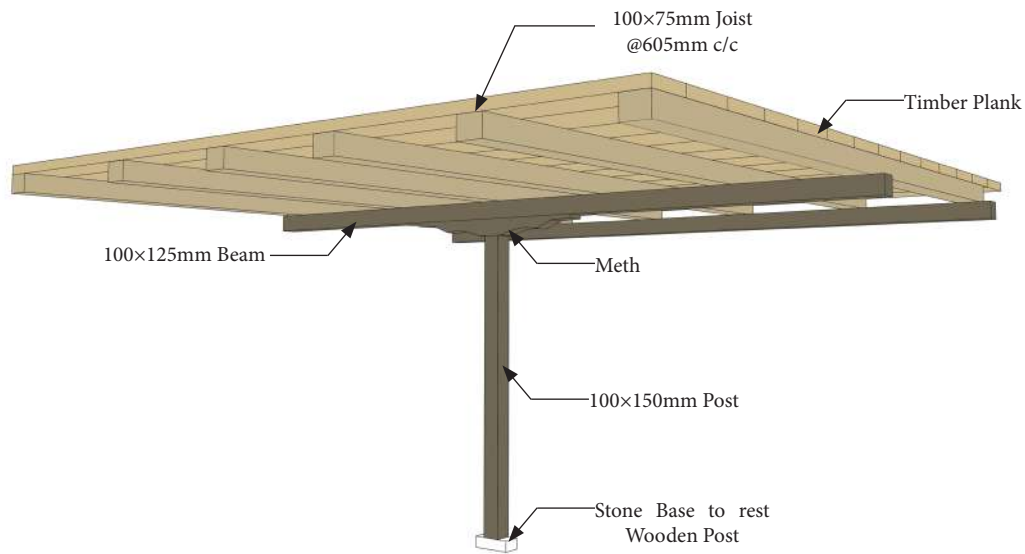
NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



Roof Detail



Floor Joint Detail

Structural Timber Connections



Ridge Detail



Typical Post and Beam Connection



Typical Post and Beam Connection

Photographs

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

BORANG SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-04

Measured House: BT14

1. House owner name: Poday Tamang
2. Location: Borang
3. Building age: 60 Yrs.
4. No. of current family member living: 2
5. Ground coverage area: 20.03 sq. m.
6. Use of building: Residence



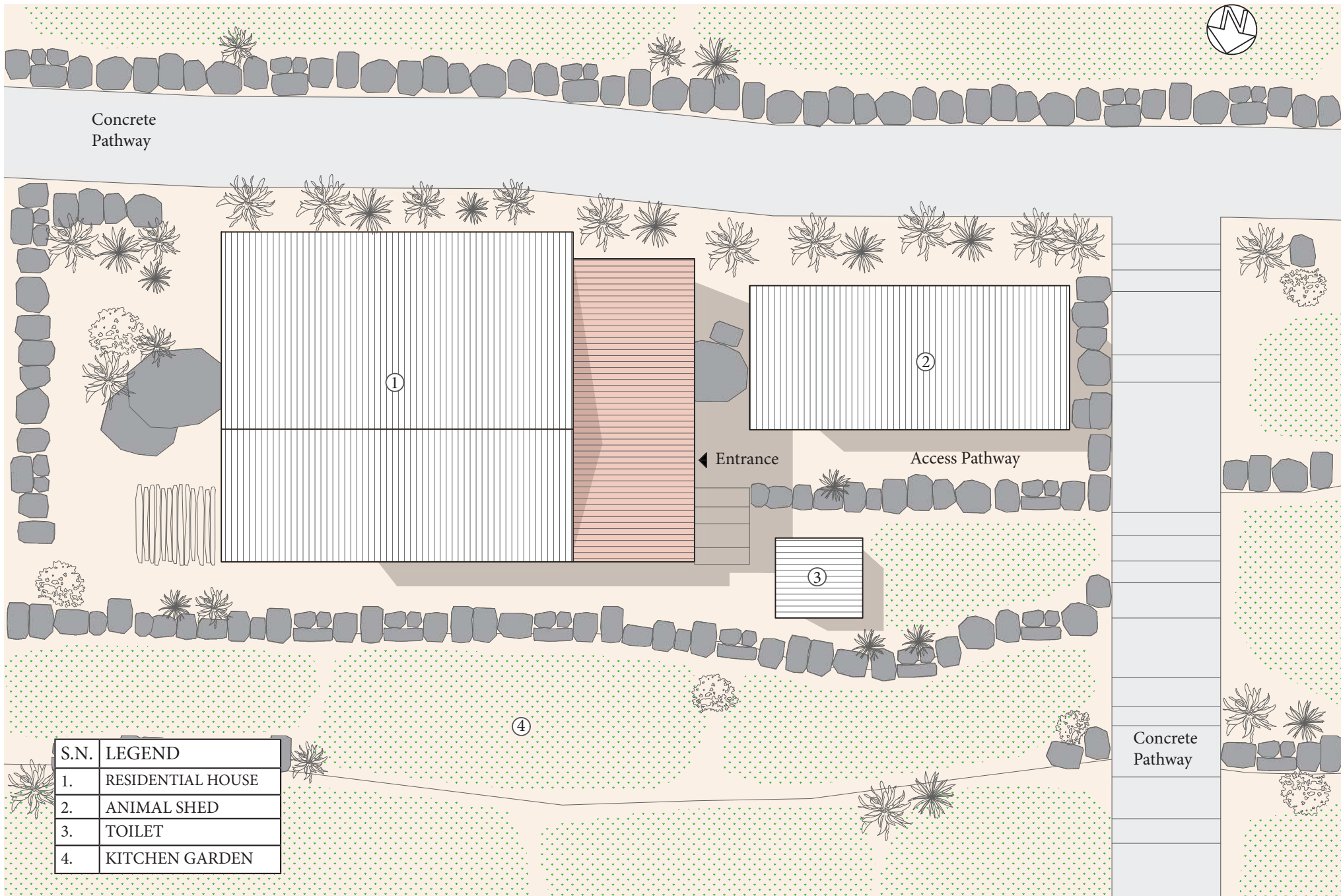
Measured House Location Map



Render Image



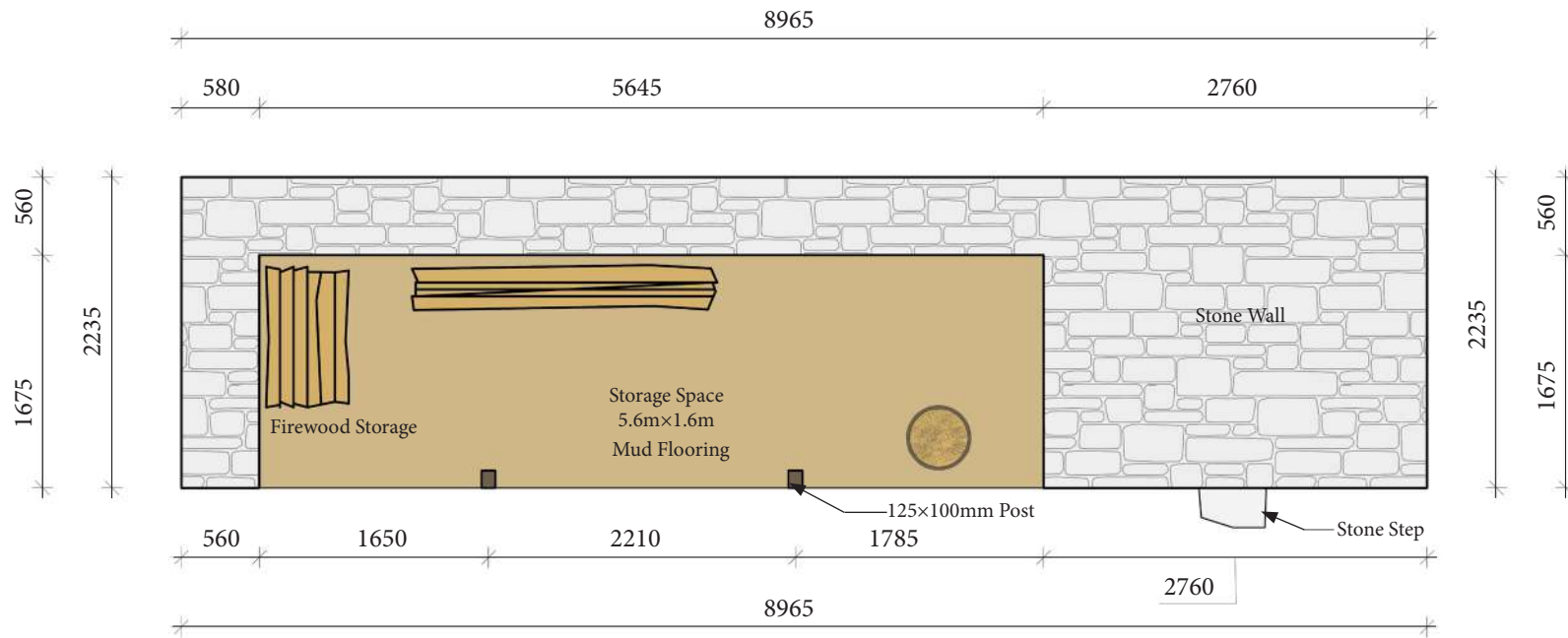
Measured House Photos



Site Plan

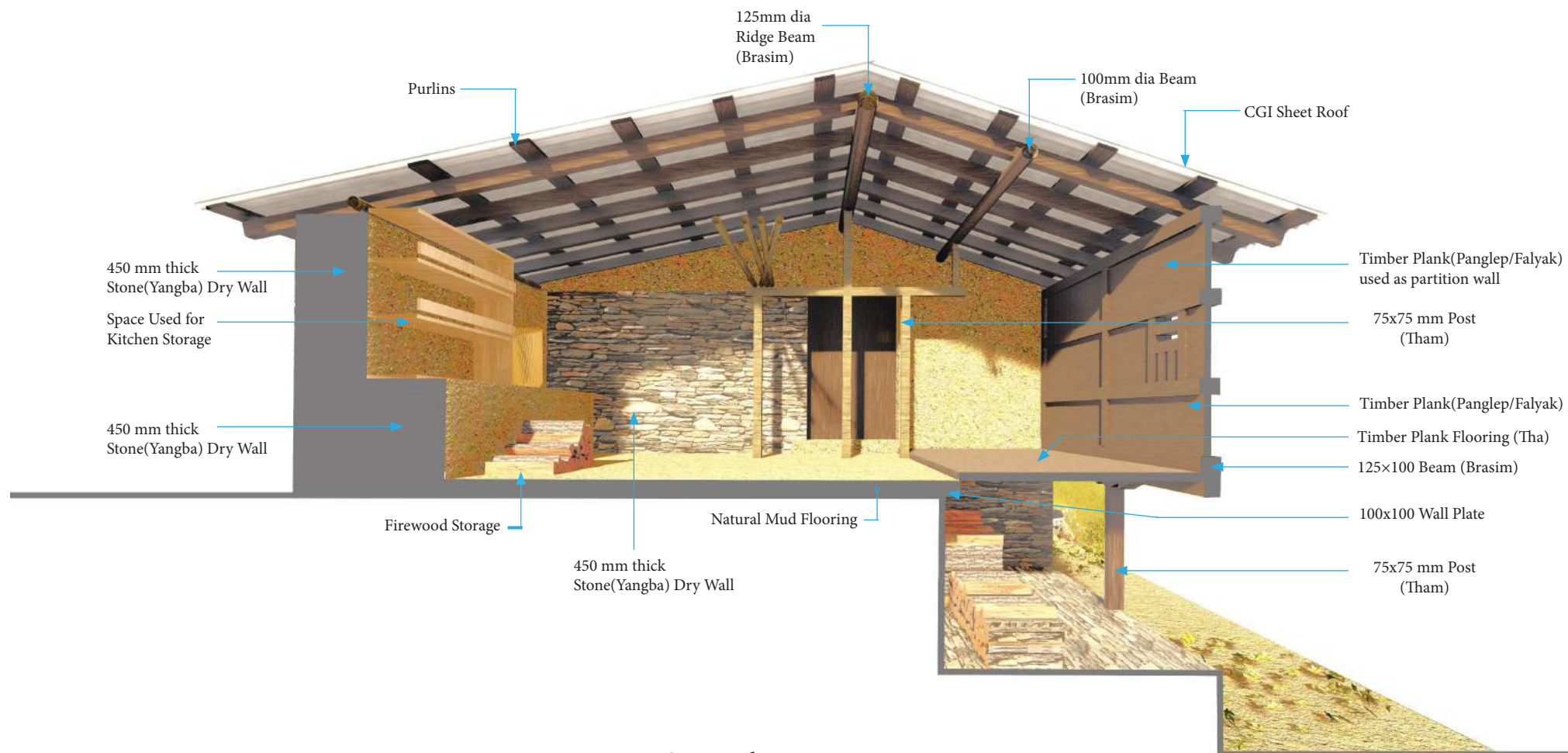


NOTE: The Ground floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms.



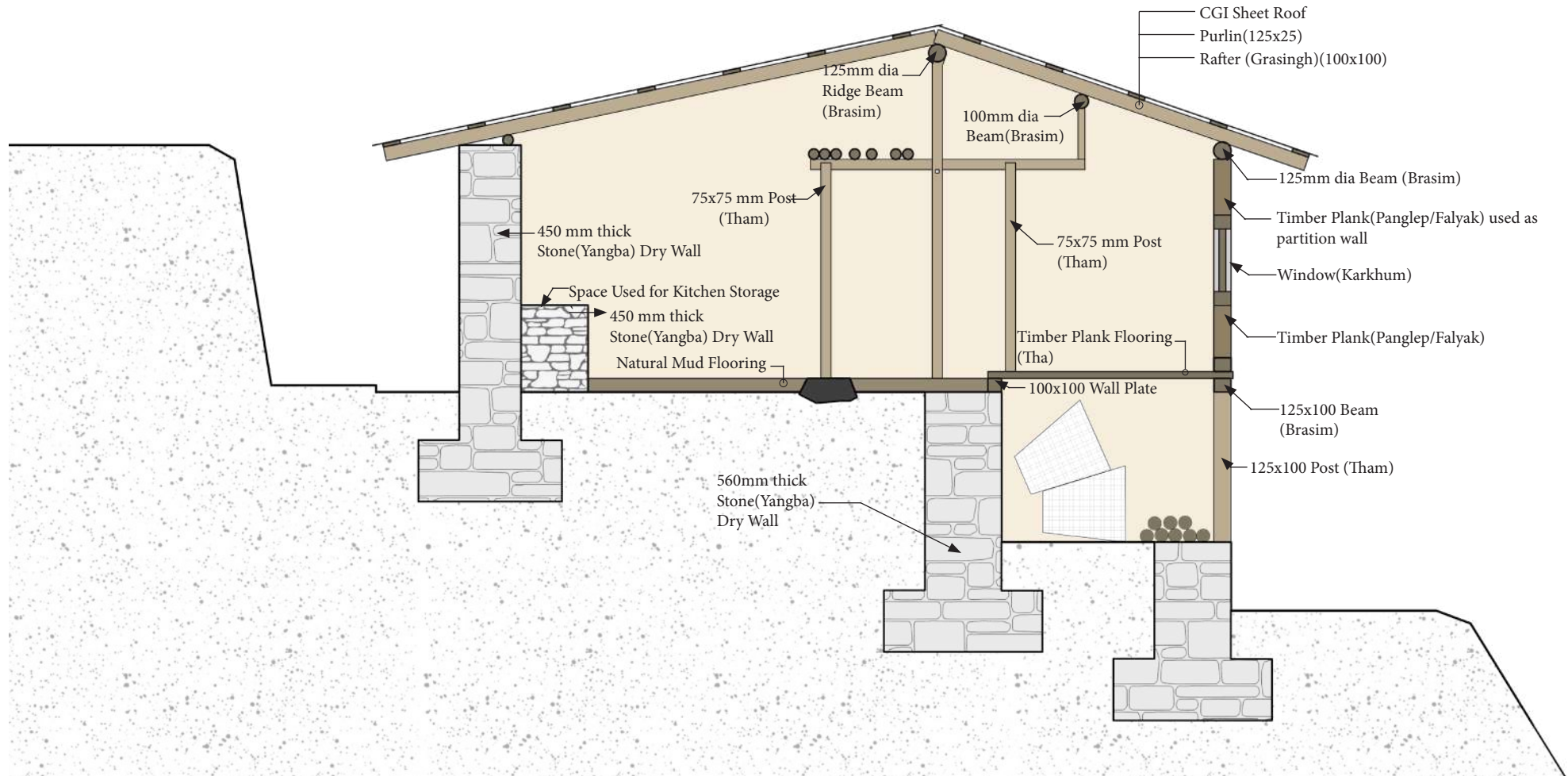
Below Half Floor Plan

NOTE: This floor is primarily accessed on lower level contour land is used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.

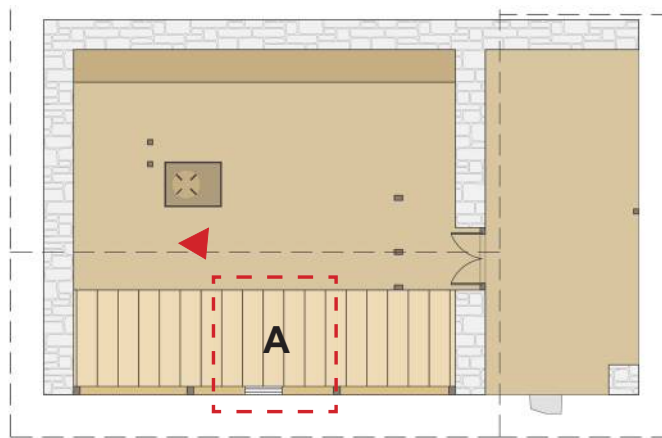


Elevation

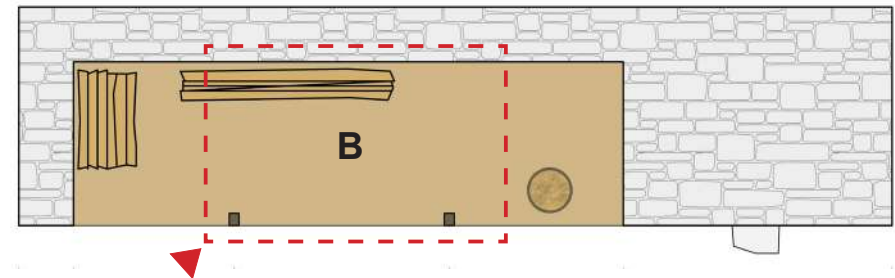


3D Views

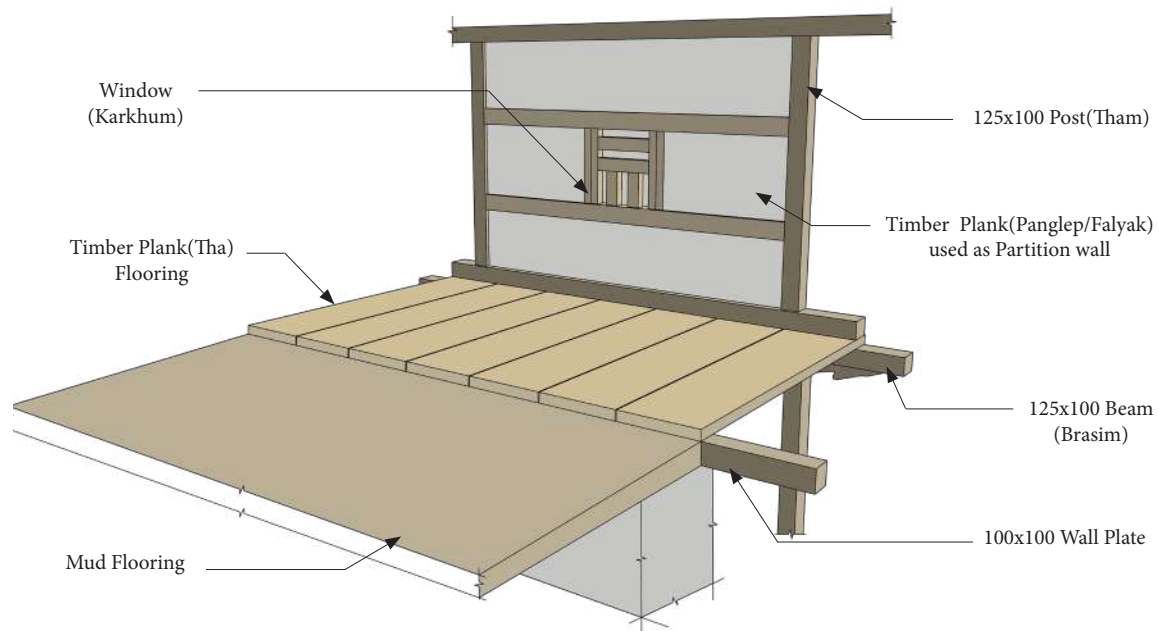




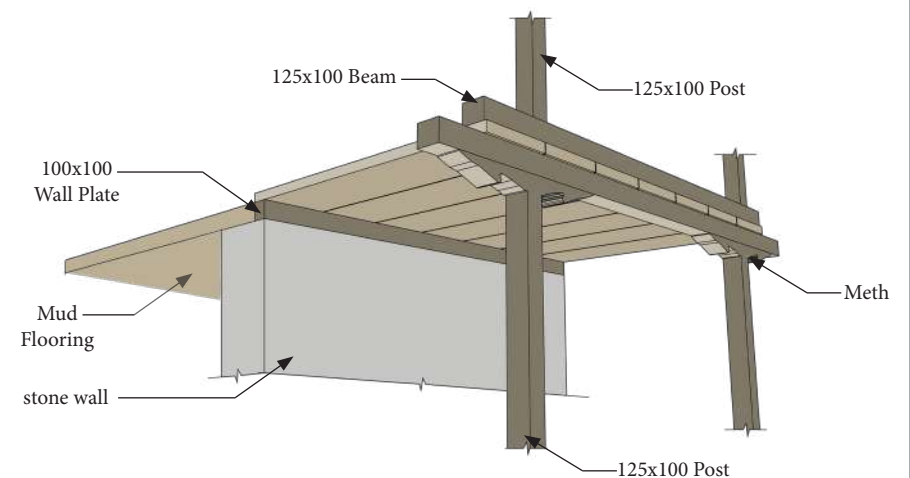
Ground Floor Plan



Lower Ground Plan

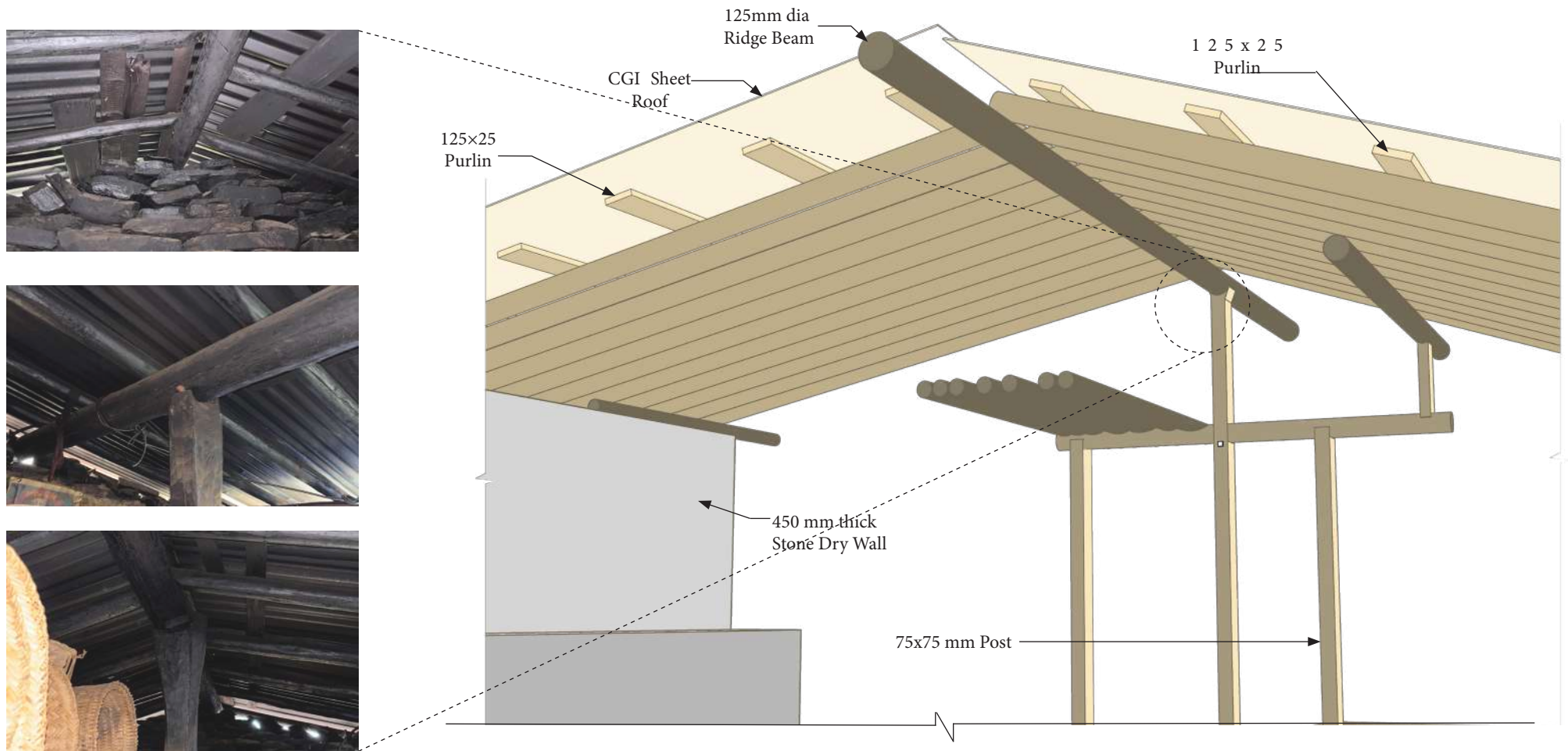


Detail at A



Detail at B

NOTE: The typical floor joist detail illustrates timber beams supported by timber posts, with timber floor joists spanning above the beams to support the timber flooring planks.



Photographs

Roof Detail

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

CHALIS SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 04, DHADING

SETTLEMENT PLAN

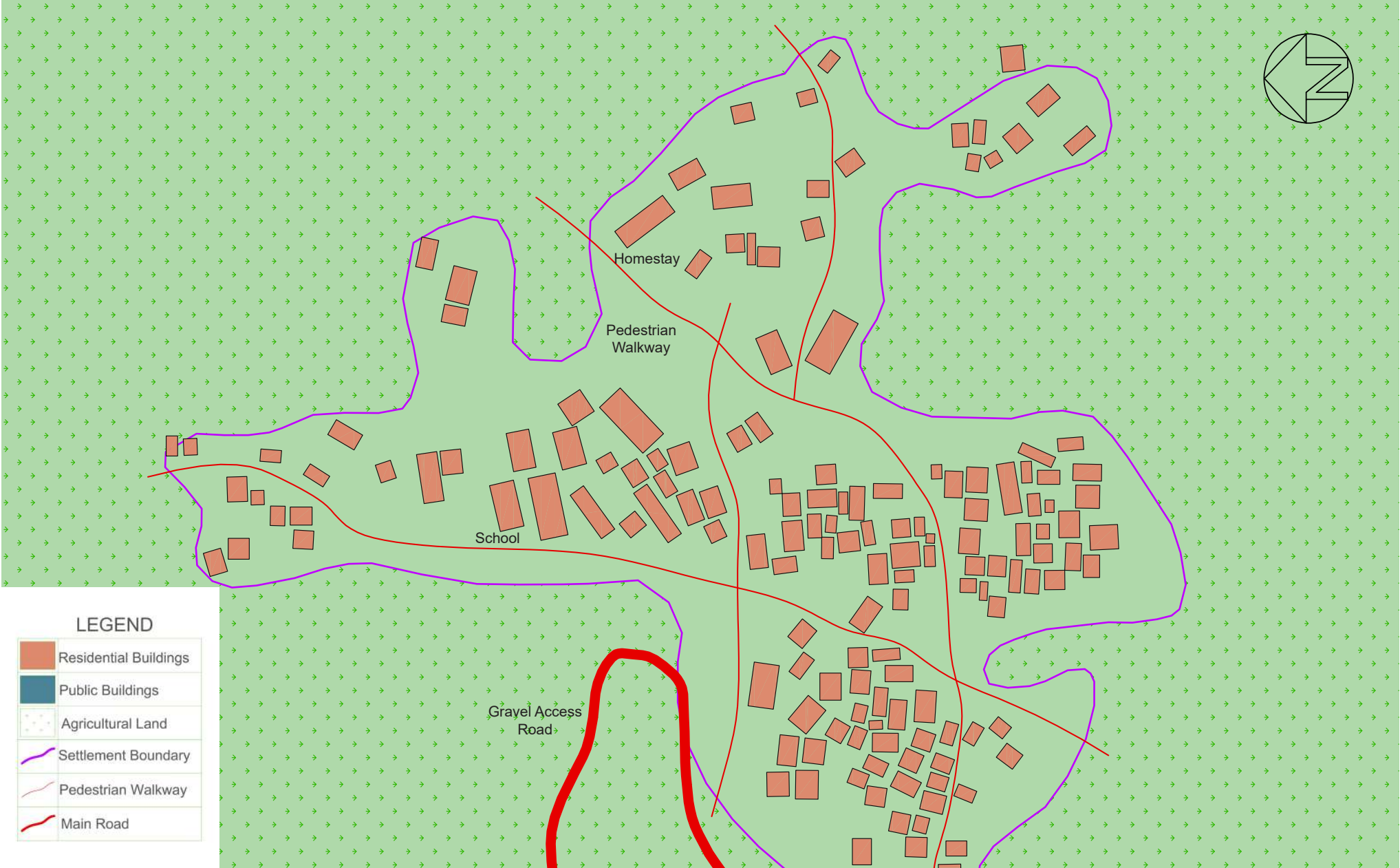


Fig: Settlement Map of Chalis

CHALIS SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-04

Measured House: BT15

1. House owner name: Lalman Gurung
2. Location: Chalis
3. Building age: 51 Yrs.
4. No. of current family member living: 4
5. Ground coverage area: 62.10 sq. m.
6. Use of building: Residence



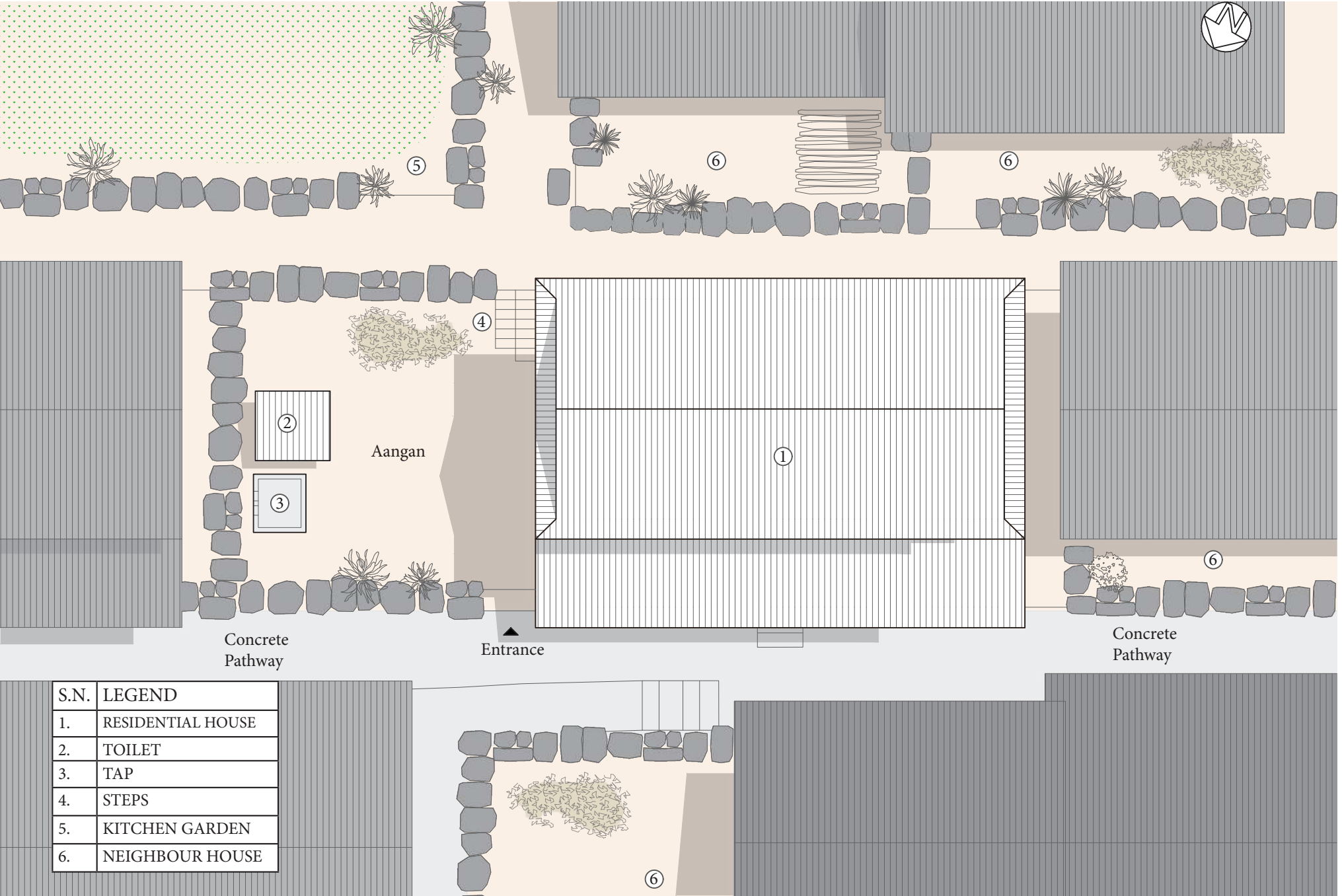
Measured House Location Map



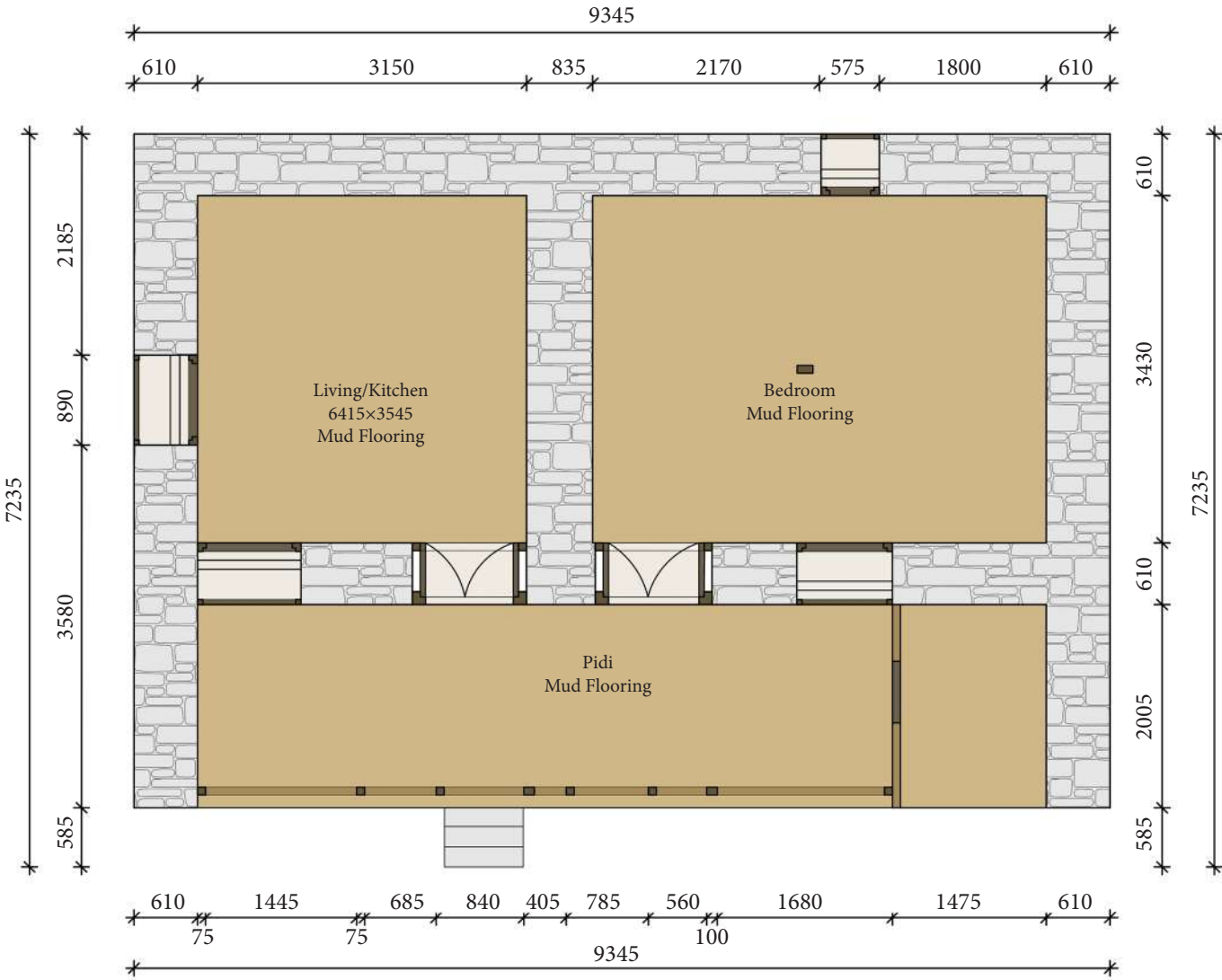
Render Image



Measured House Photos

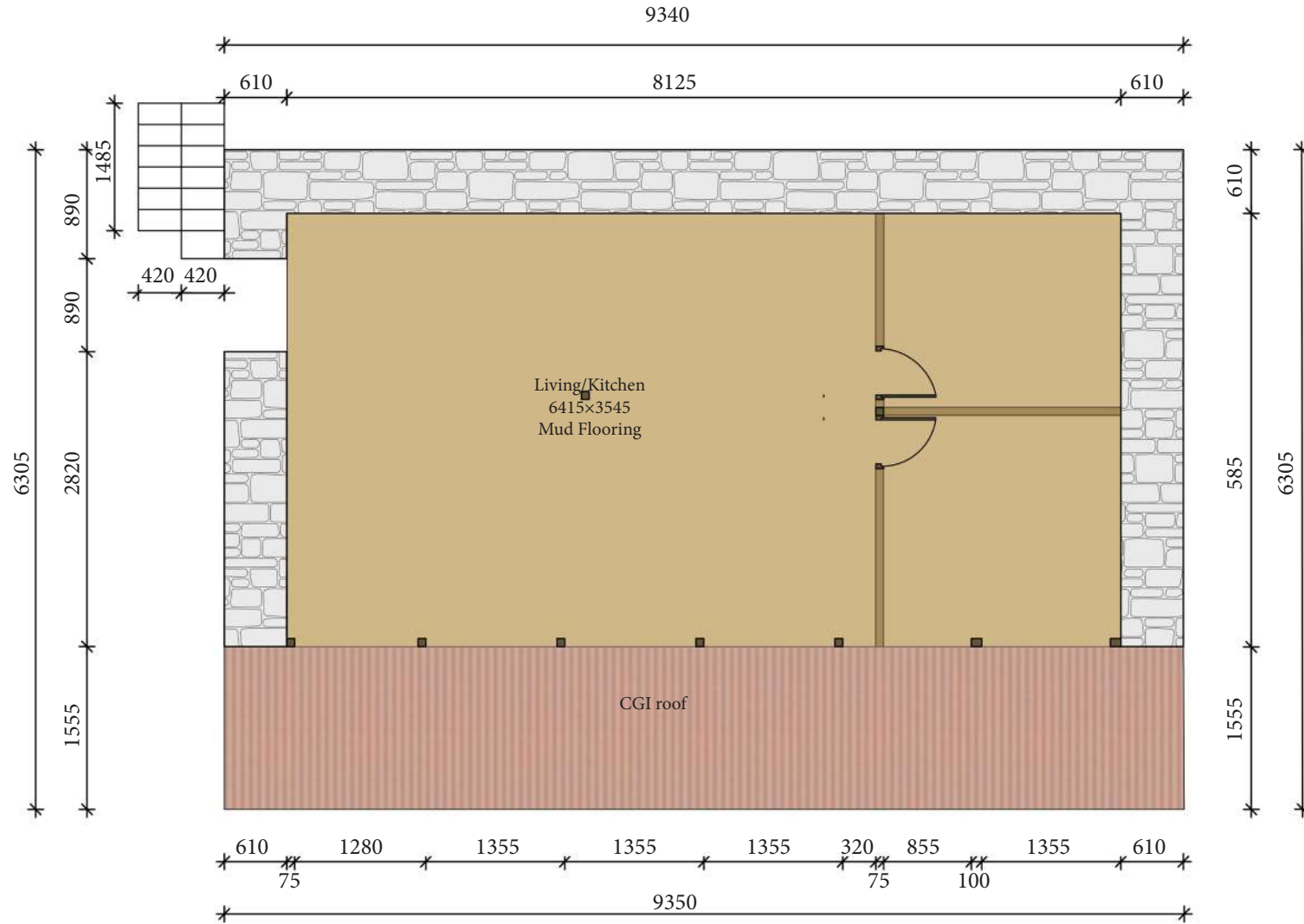


Site Plan



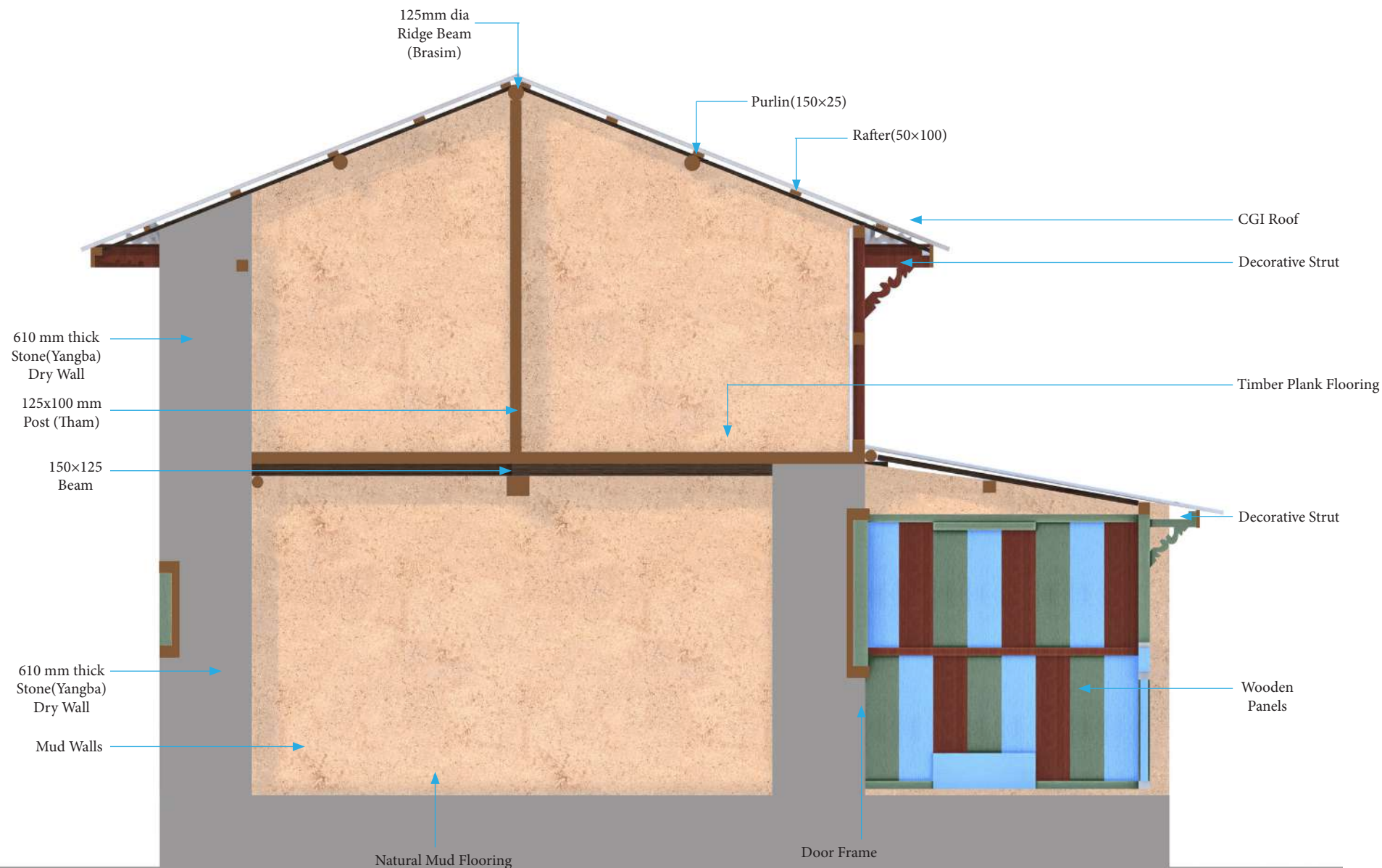
Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



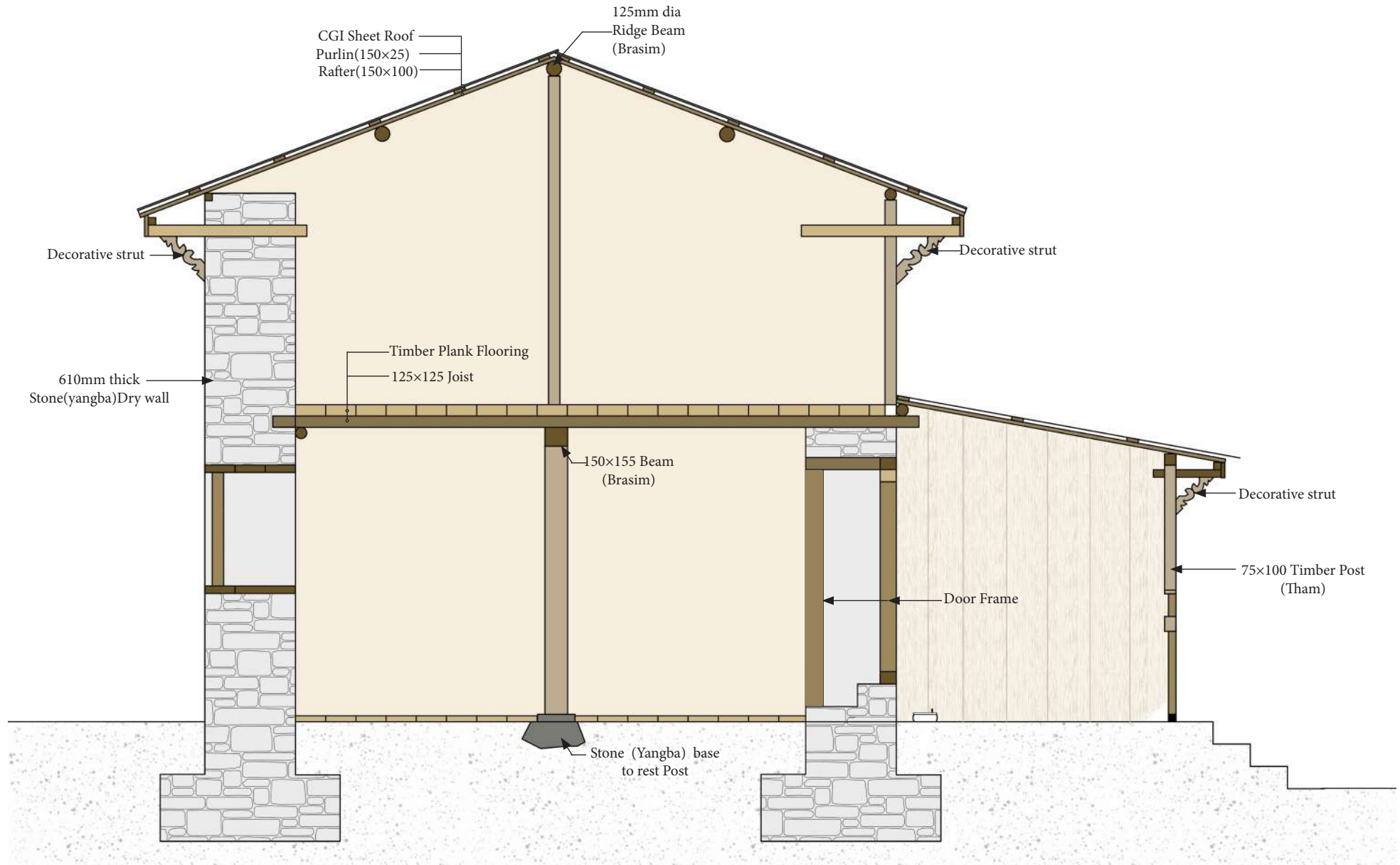
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



First Floor Joist Plan

Note: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



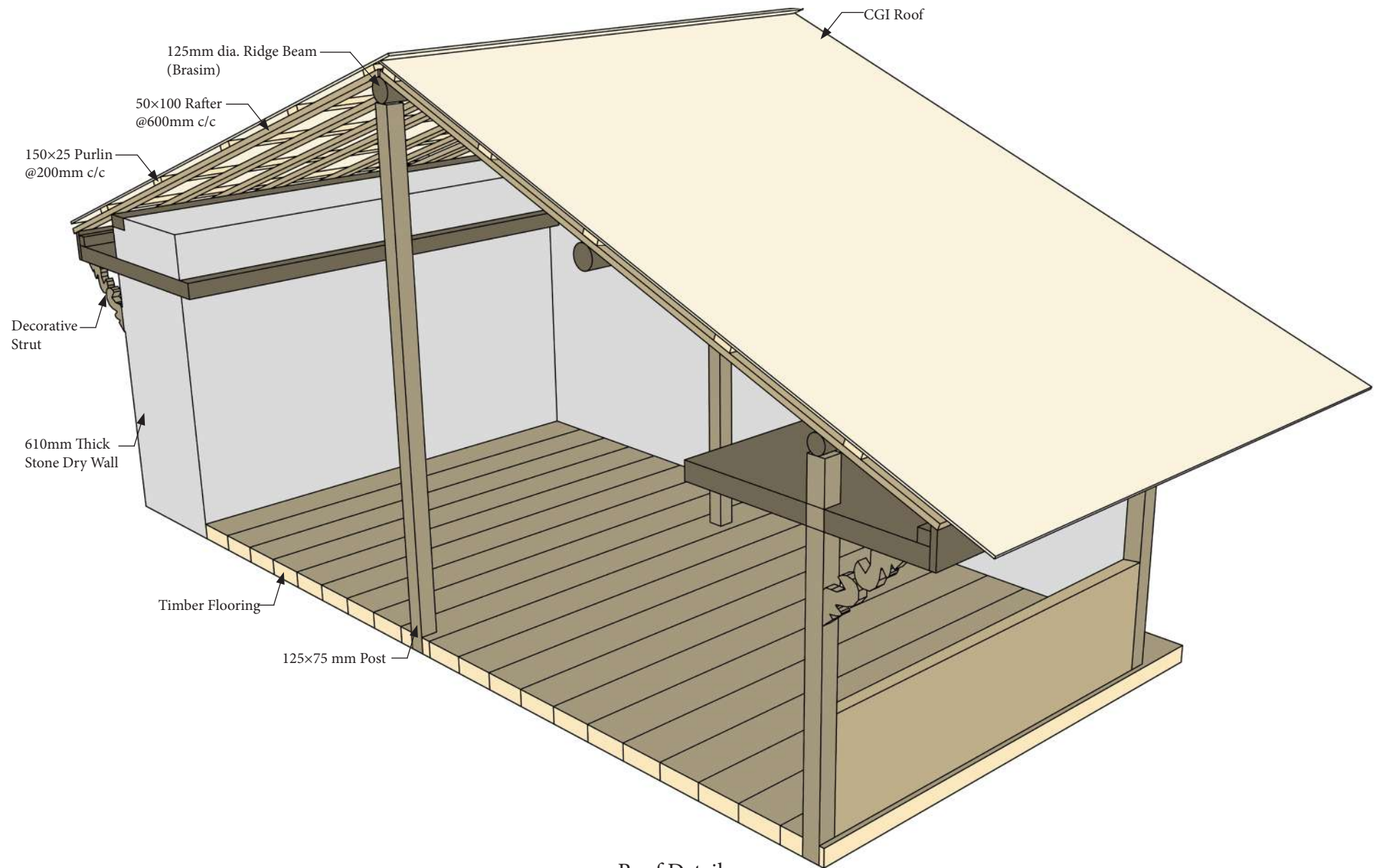
Front Elevation



Back Elevation



Side Elevation



Roof Detail

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

LAPA SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 05, DHADING

SETTLEMENT PLAN



Fig: Settlement Map of Lapagaun

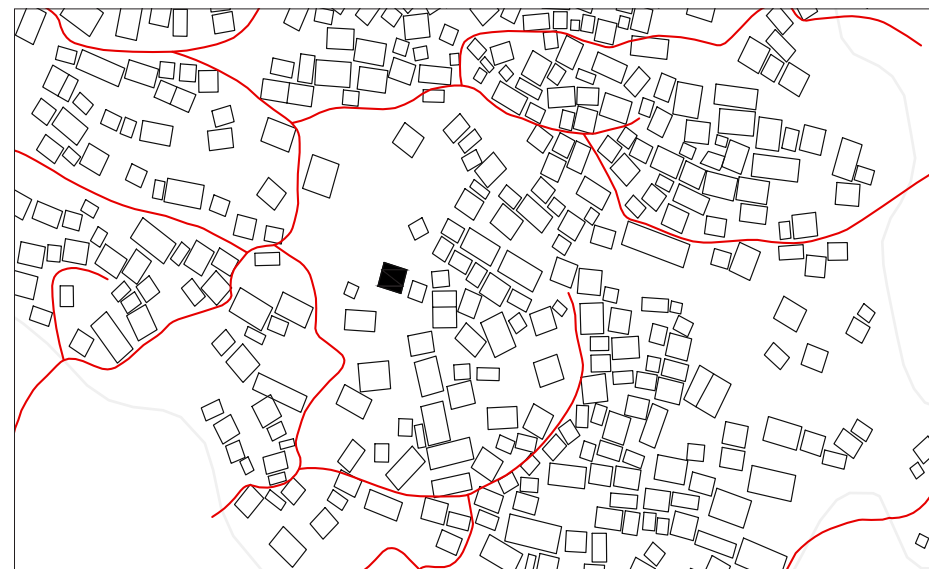
LAPA SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-05

Measured House: BT17

1. House owner name: Dan Bahadur Gurung
2. Location: Lapagaun
3. Building age: 17 Yrs.
4. No. of current family member living: 4
5. Ground coverage area: 48.20 sq. m.
6. Use of building: Residence



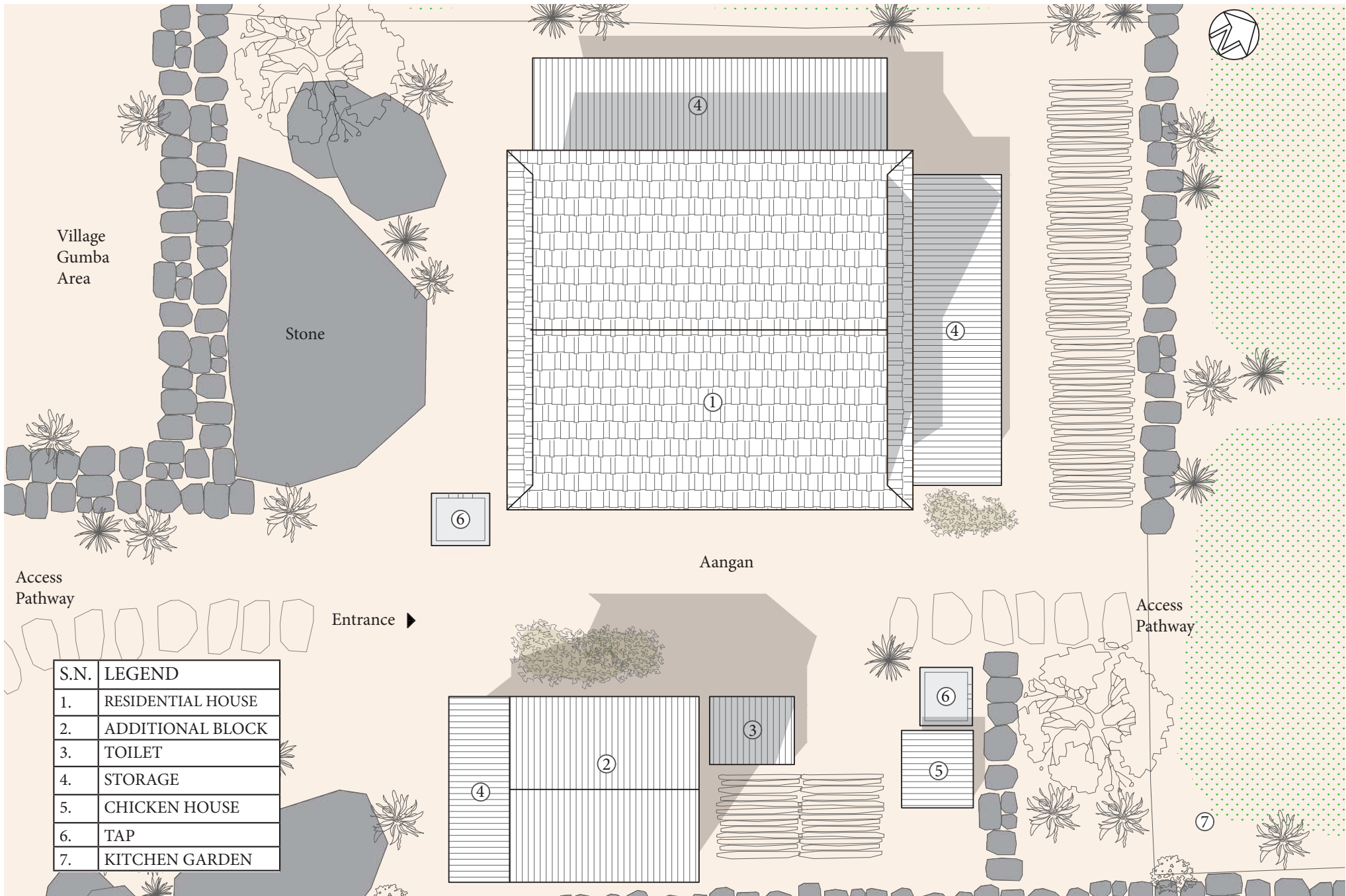
Measured House Location Map



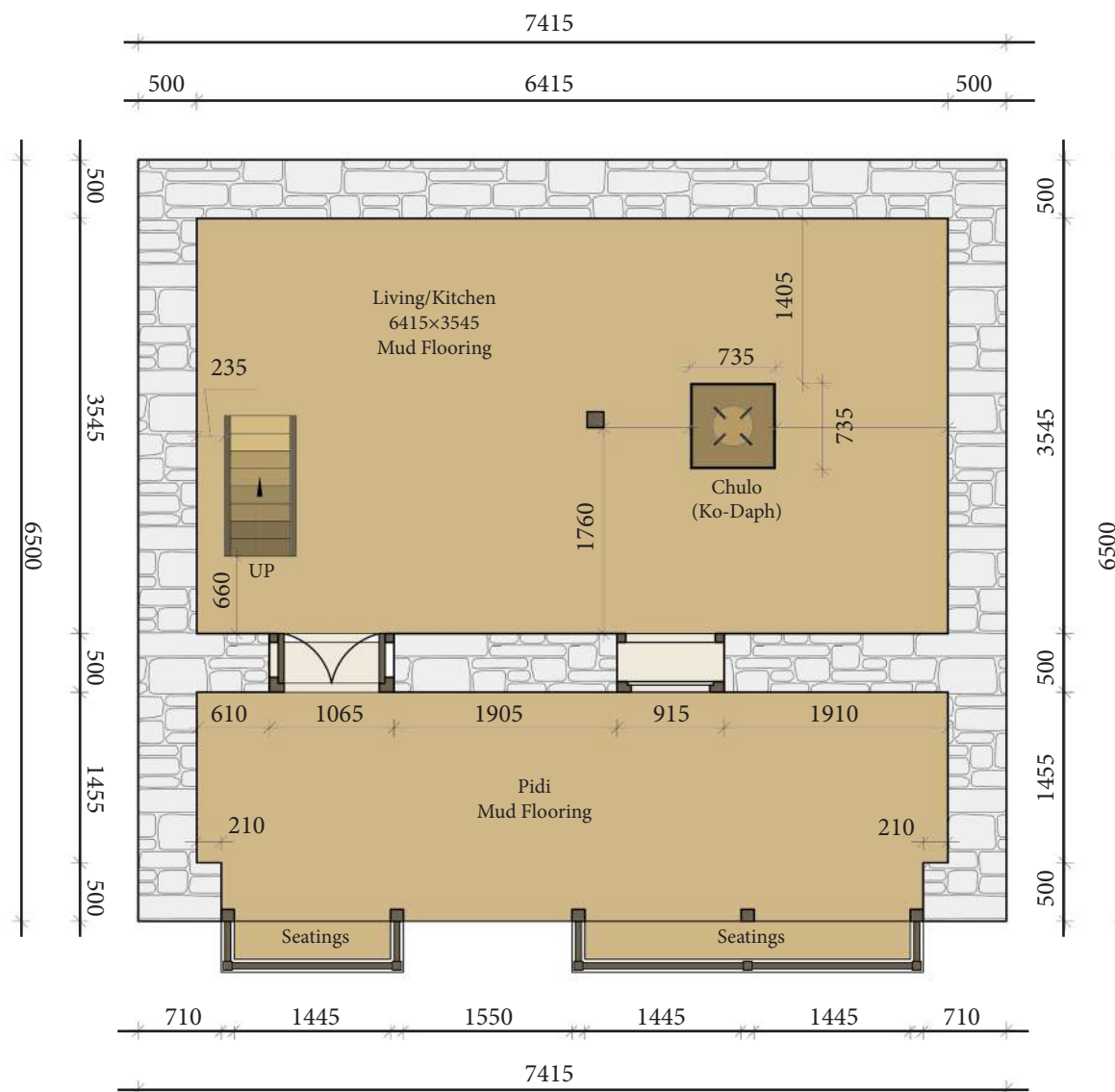
Render Image



Measured House Photos

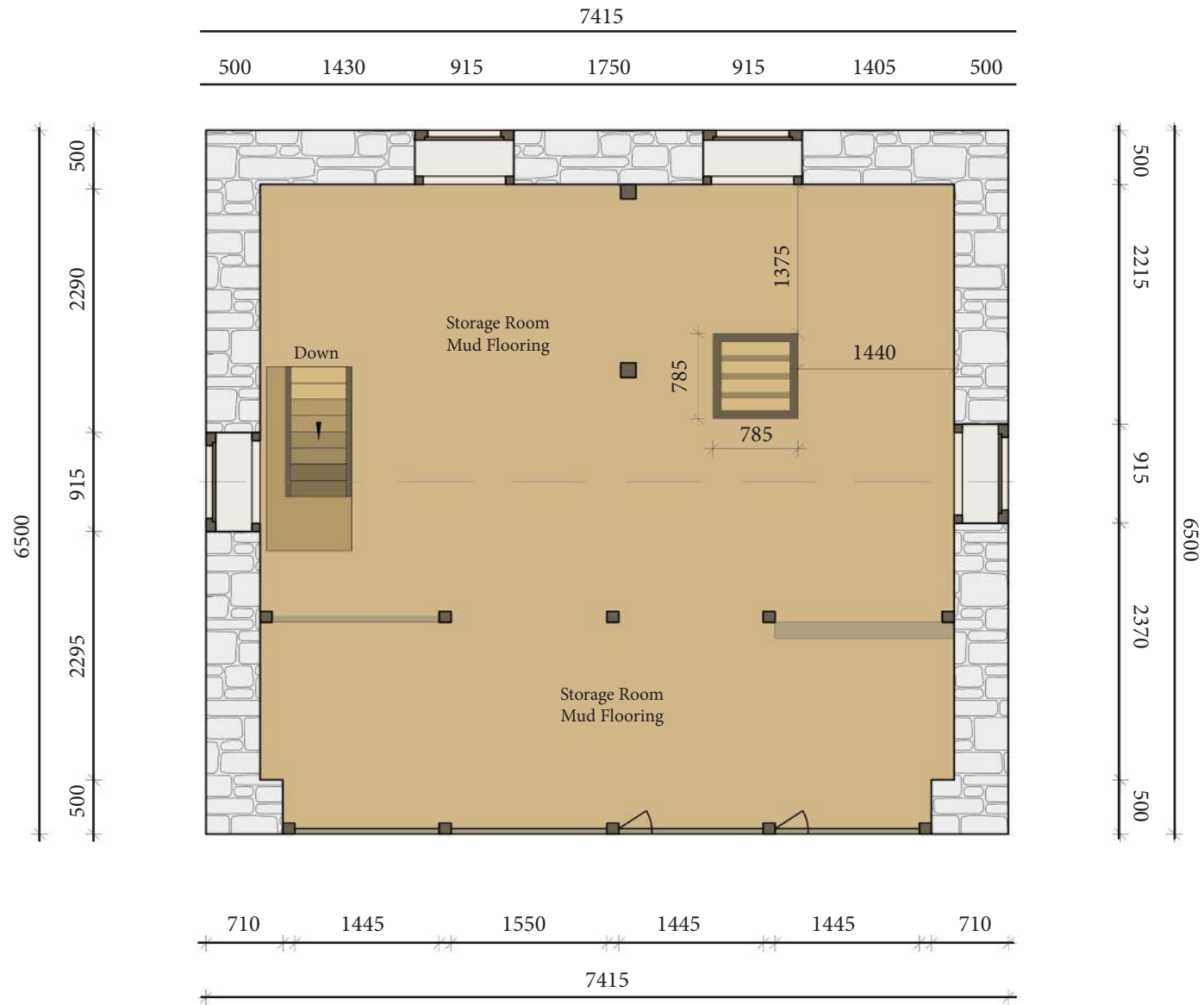


Site Plan



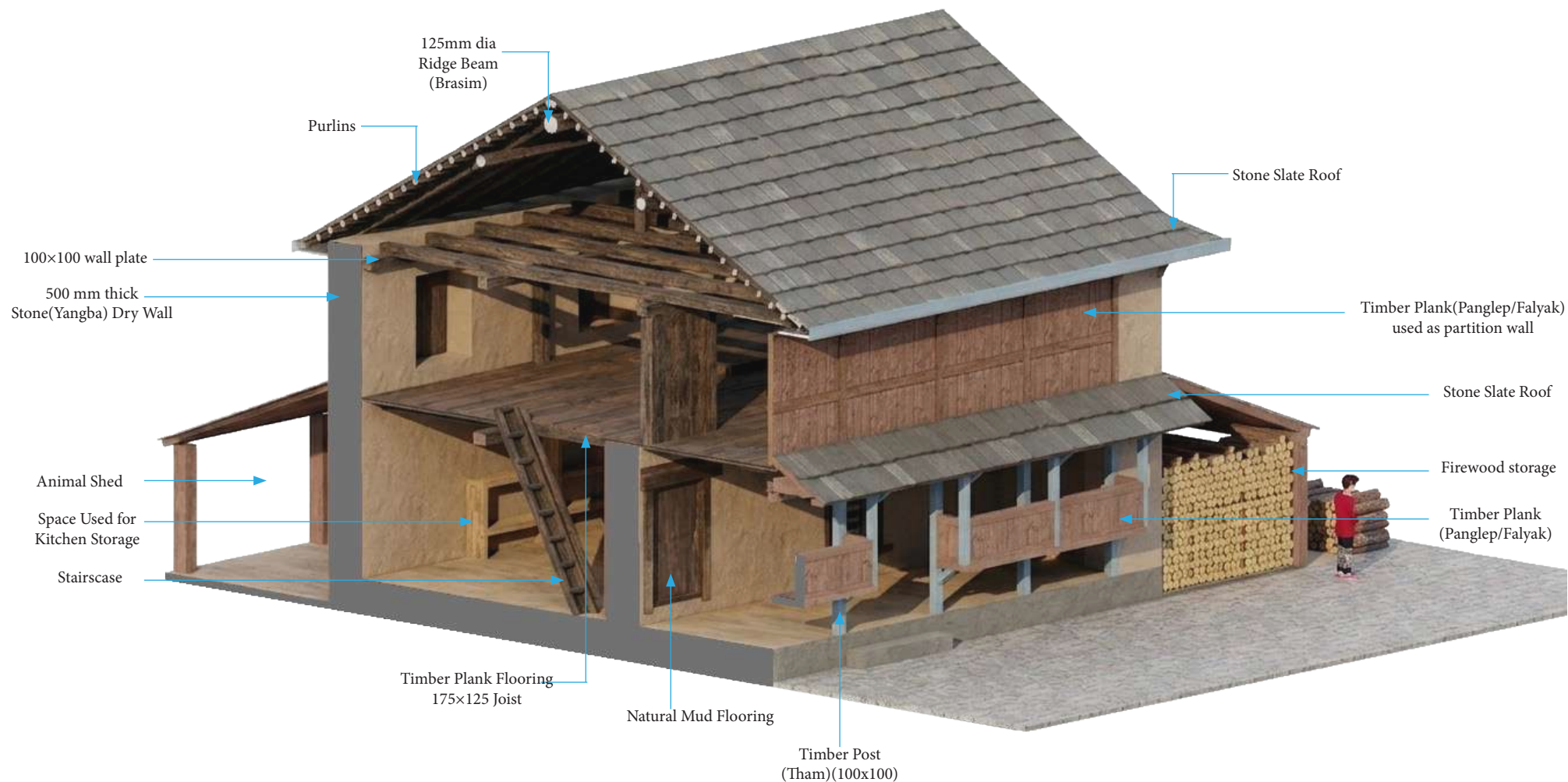
Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



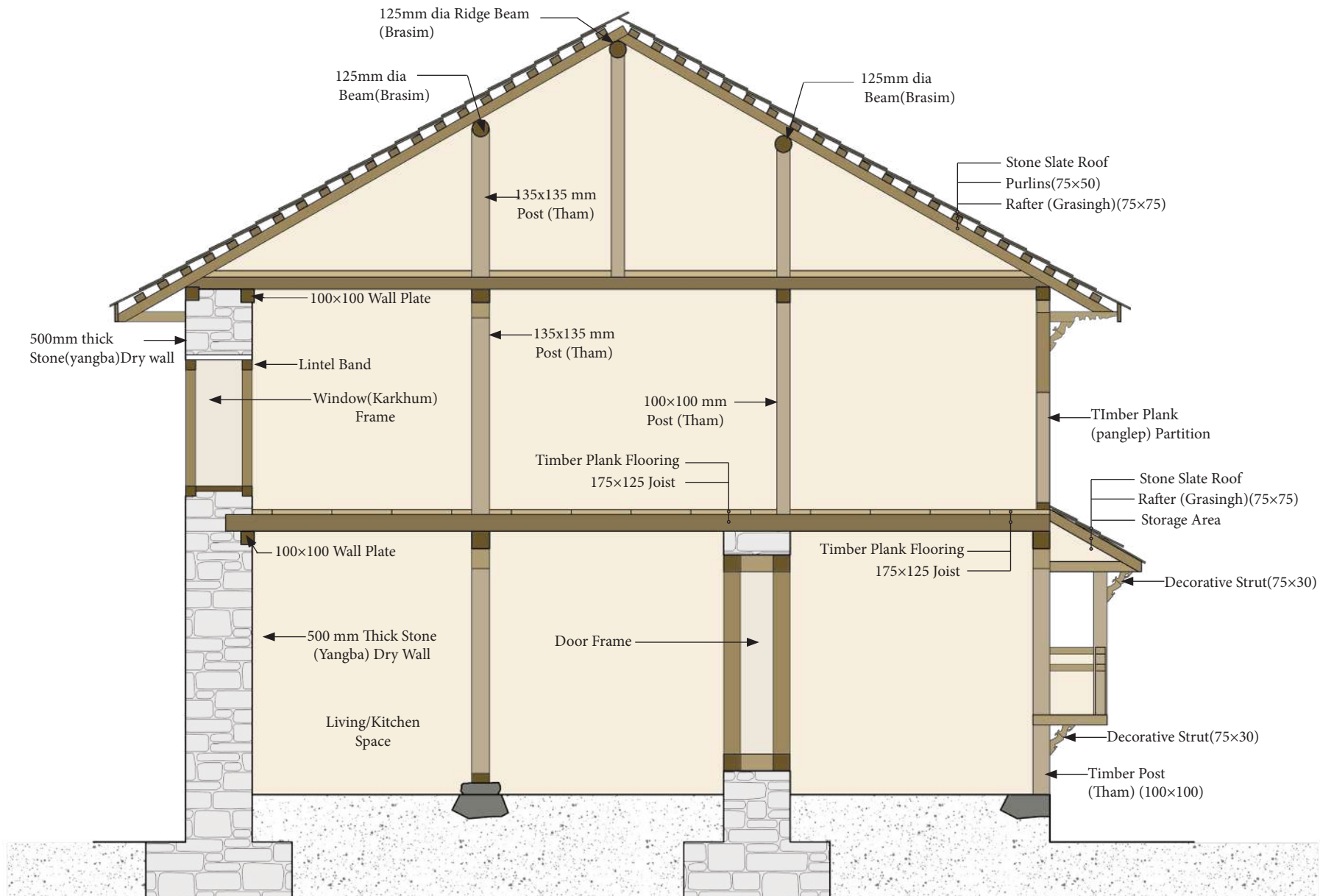
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



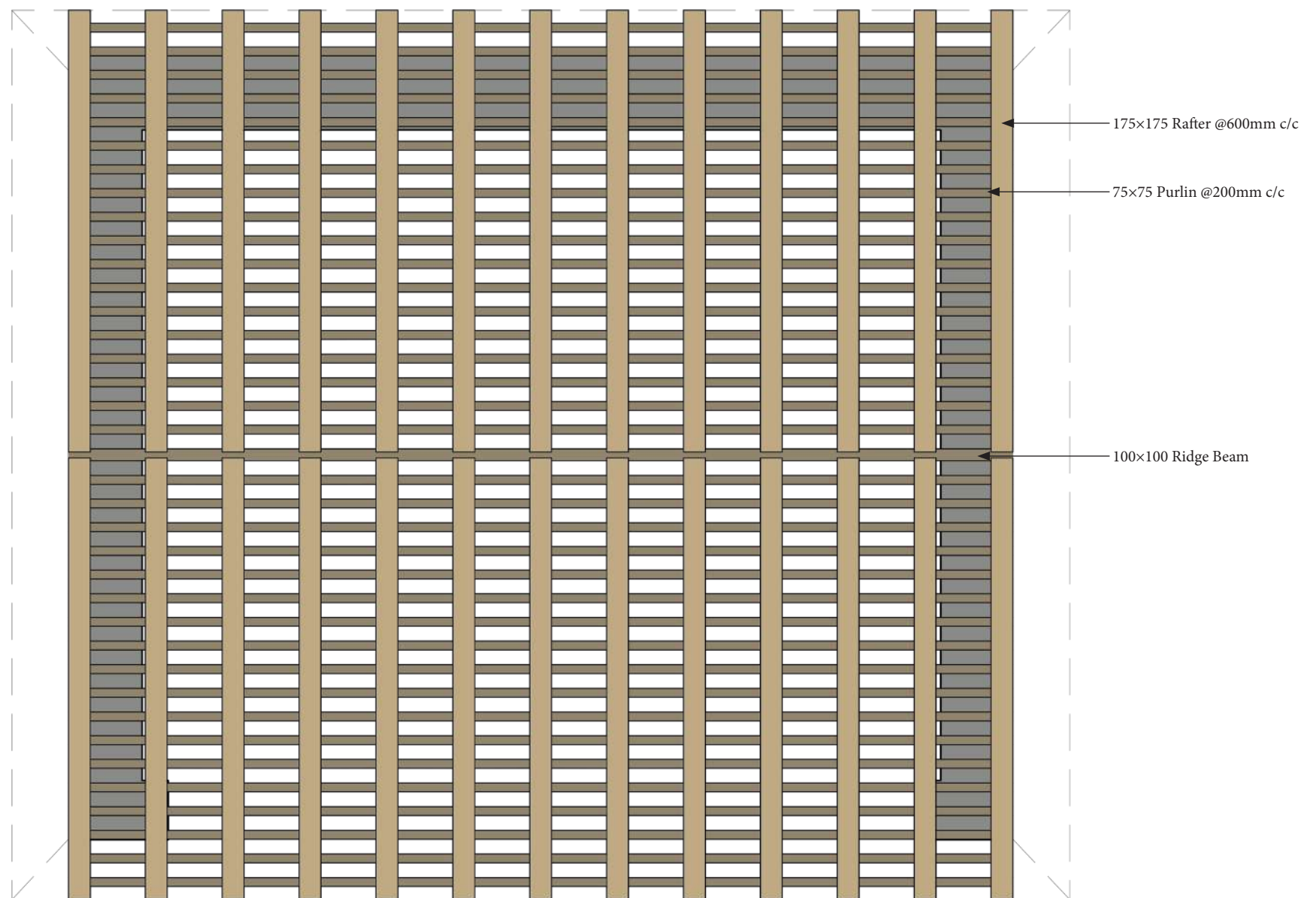
Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



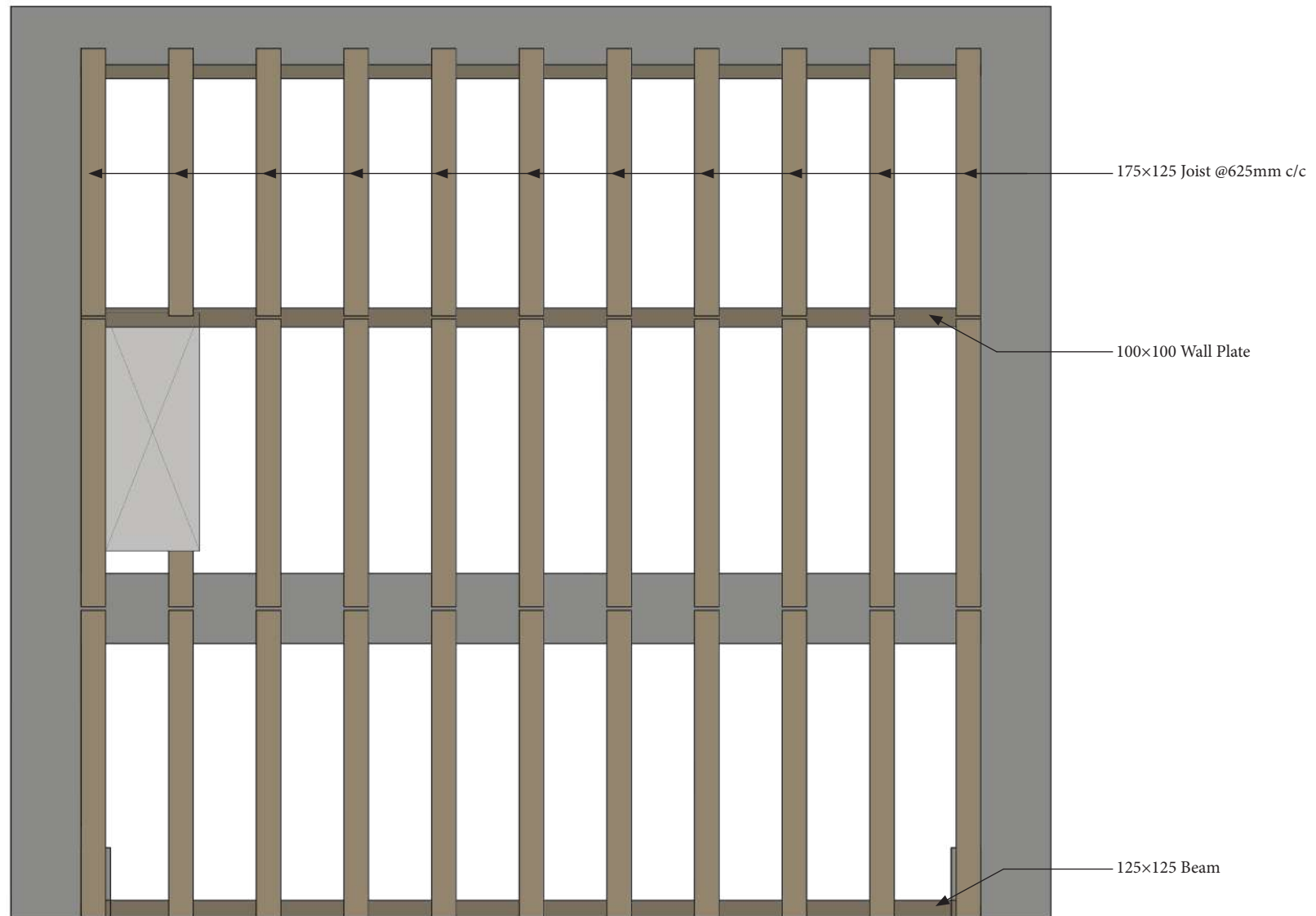
Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



First Floor Joist Plan

Note: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



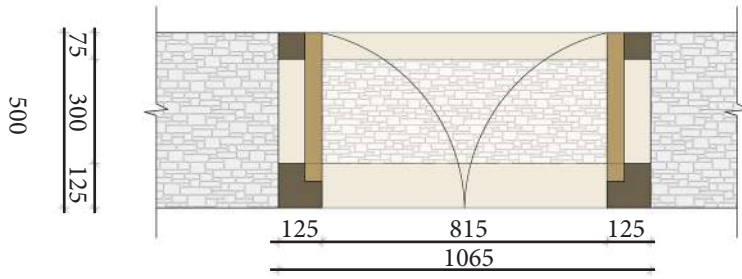
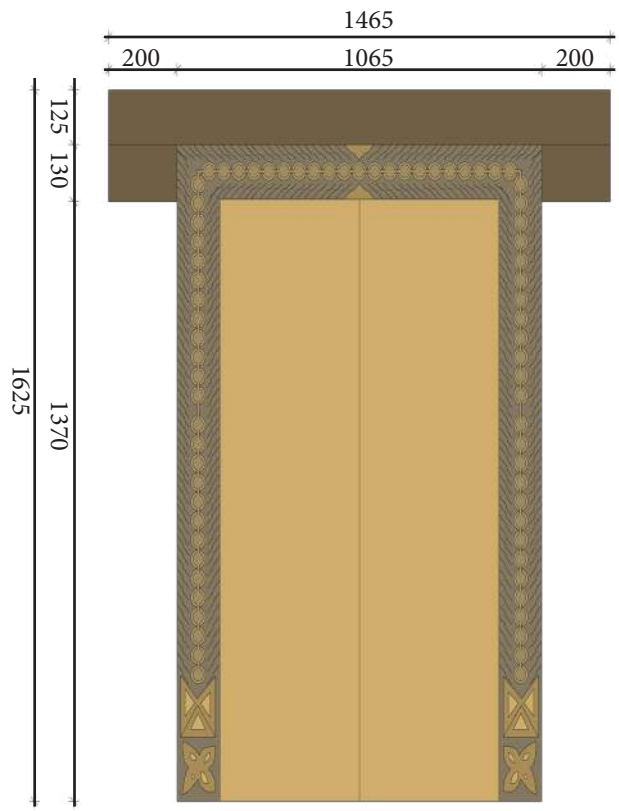
Front Elevation



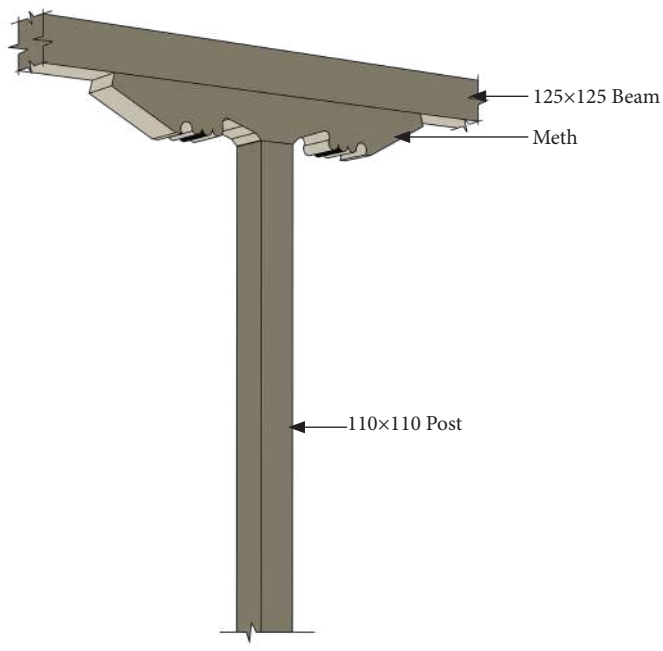
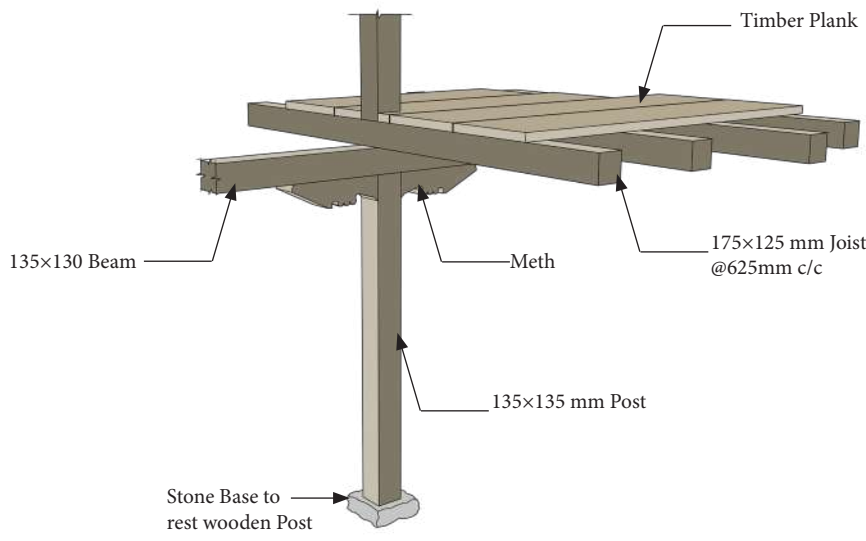
Side Elevation



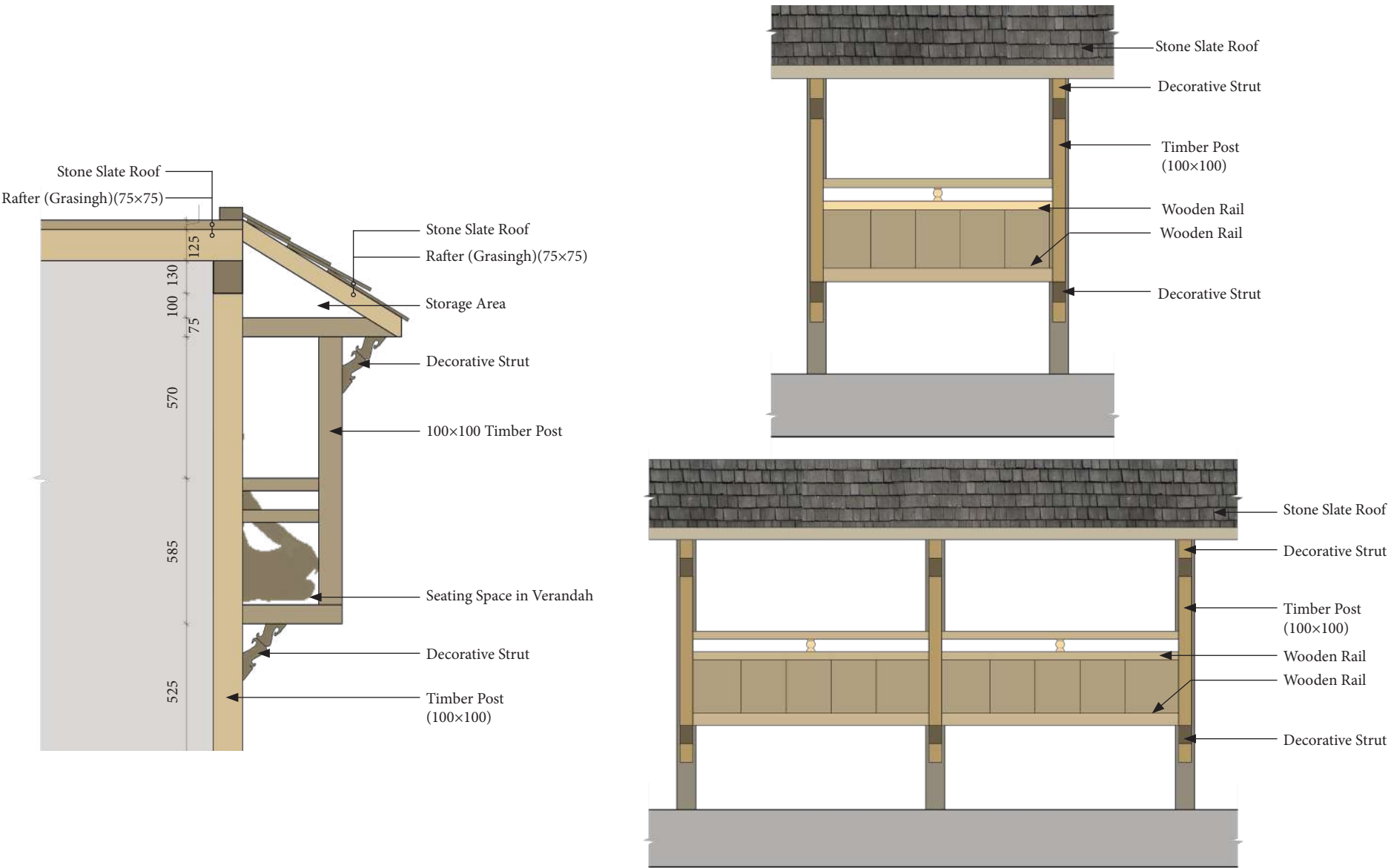
Side Elevation



Opening Details

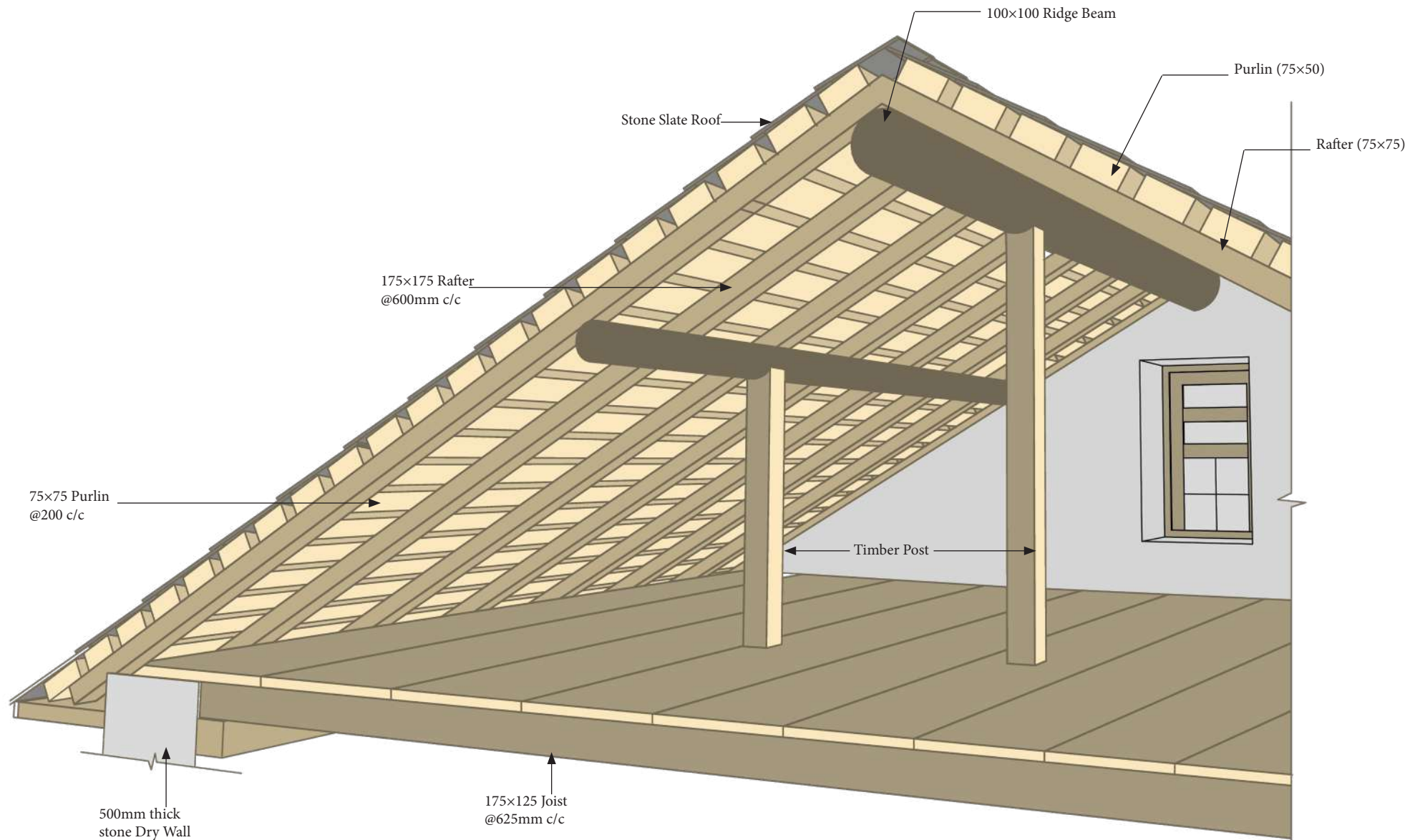


Joint Details



Veranda Details

NOTE: The veranda is a prominent feature of houses in settlements such as Lapagaun and Khading. It serves as a semi-private transitional space, featuring projected timber seating used for daily household activities and informal social interactions.



Roof Detail

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.

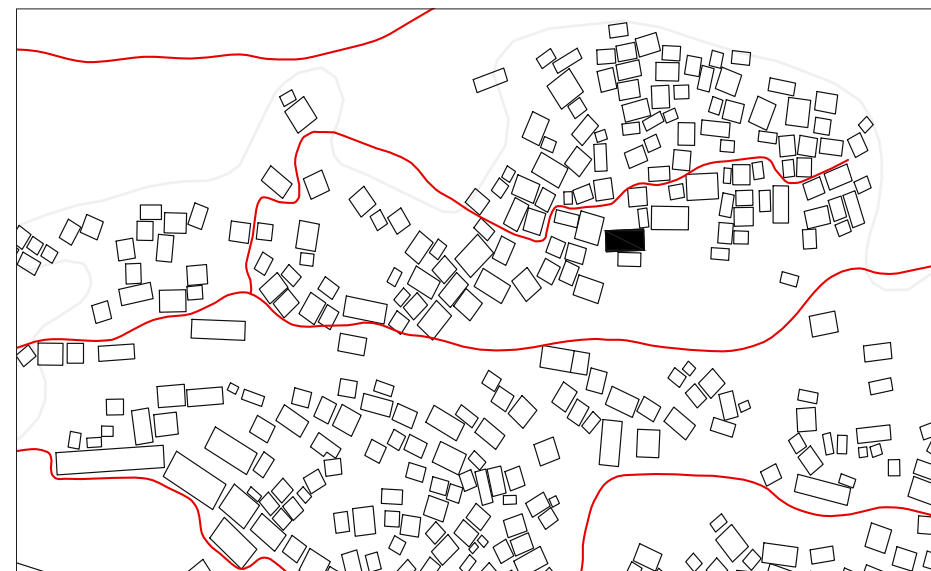
LAPA SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-05

Measured House: BT16

1. House owner name: Dhur Maiya Gurung
2. Location: Lapagaun
3. Building age: 102 Yrs.
4. No. of current family member living: 2
5. Ground coverage area: 44.99 sq. m.
6. Use of building: Residence



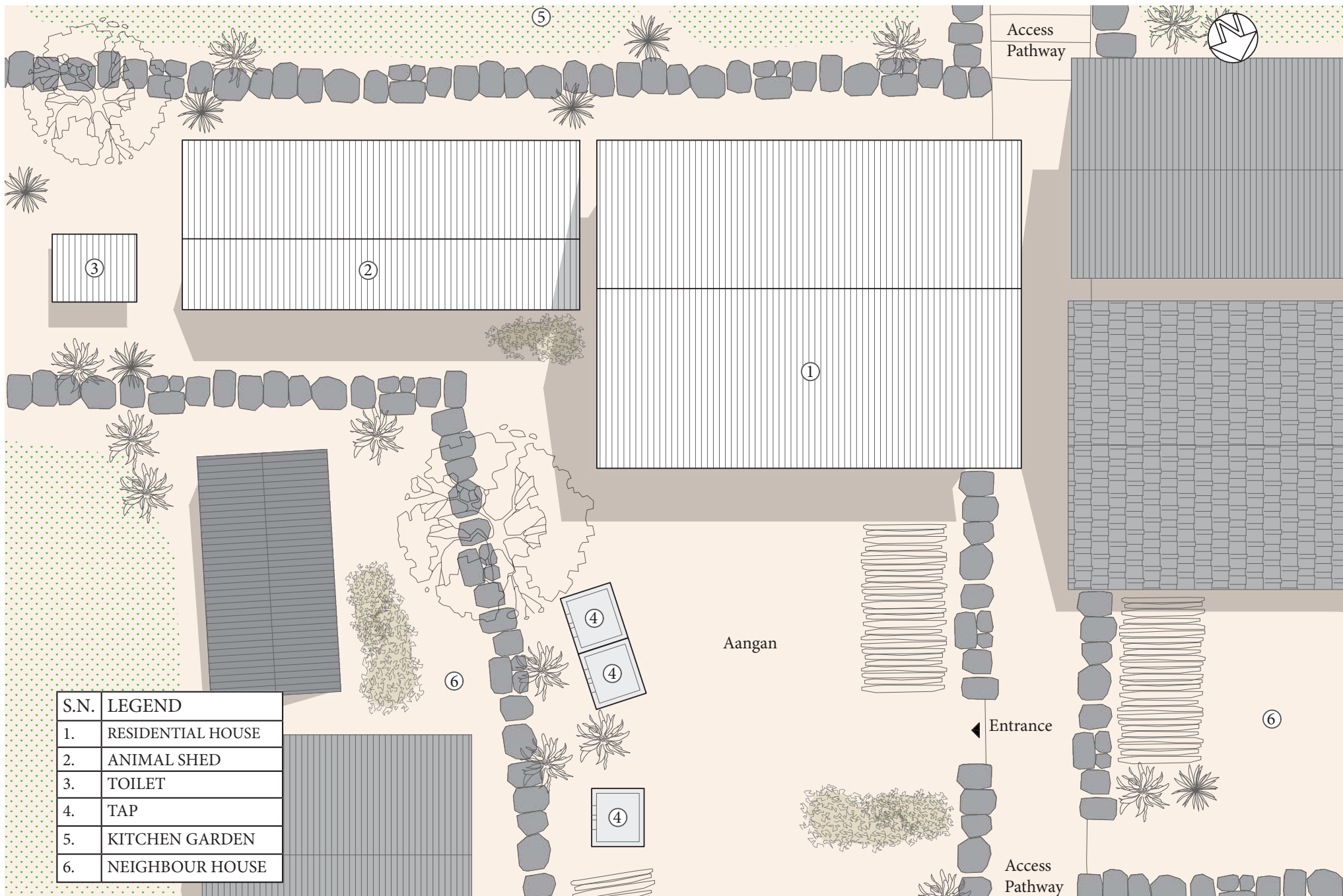
Measured House Location Map



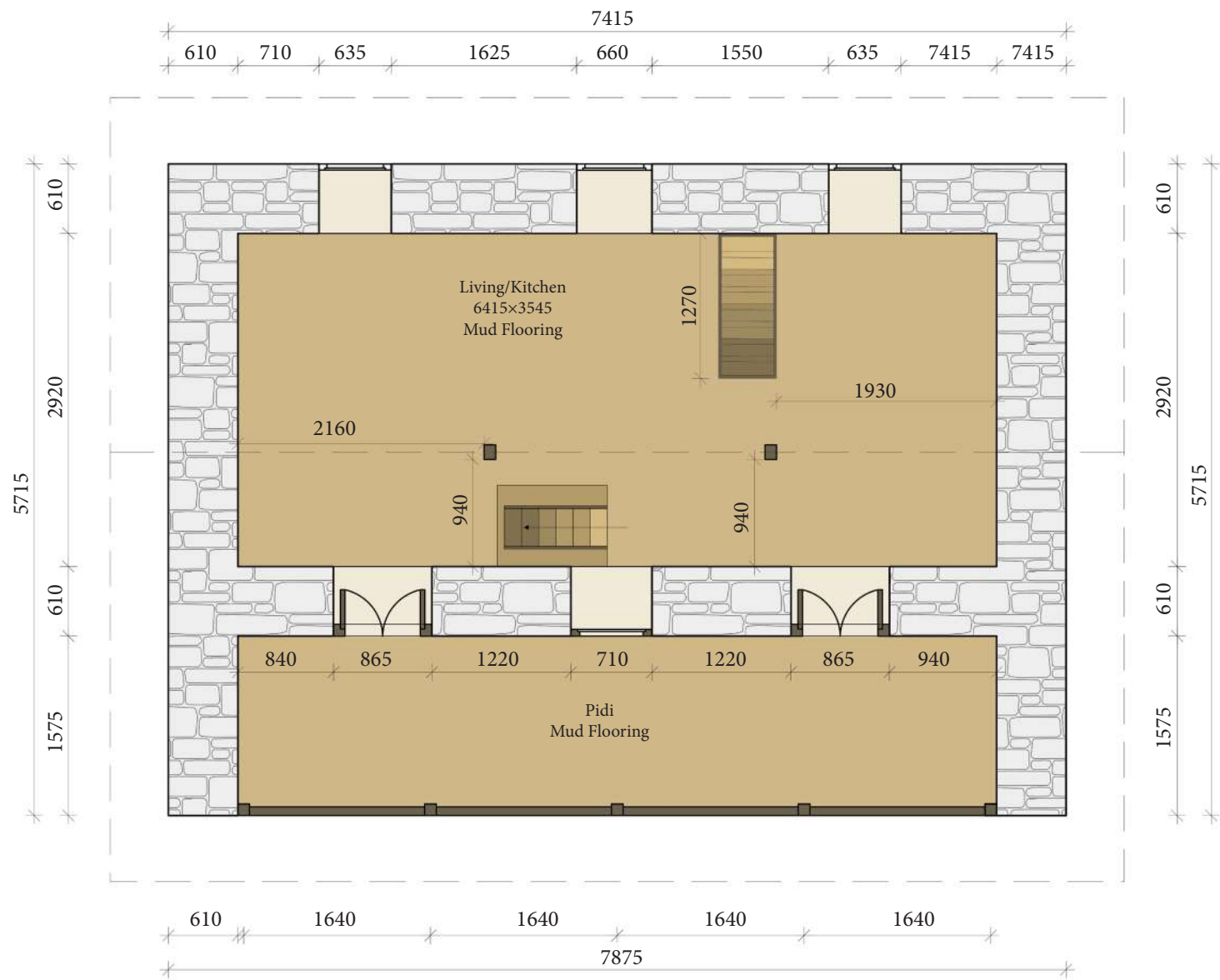
Render Image



Measured House Photos

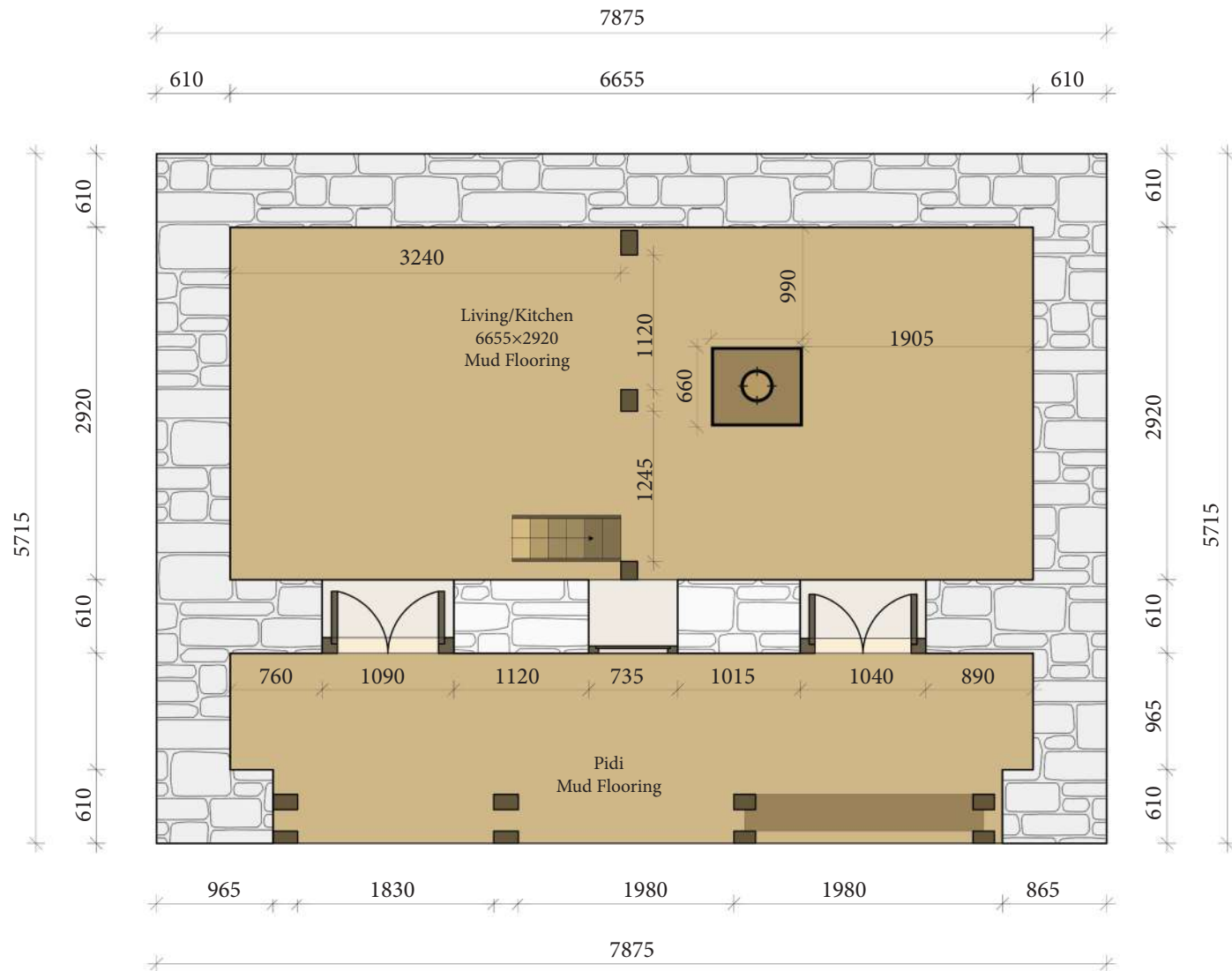


Site Plan



Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



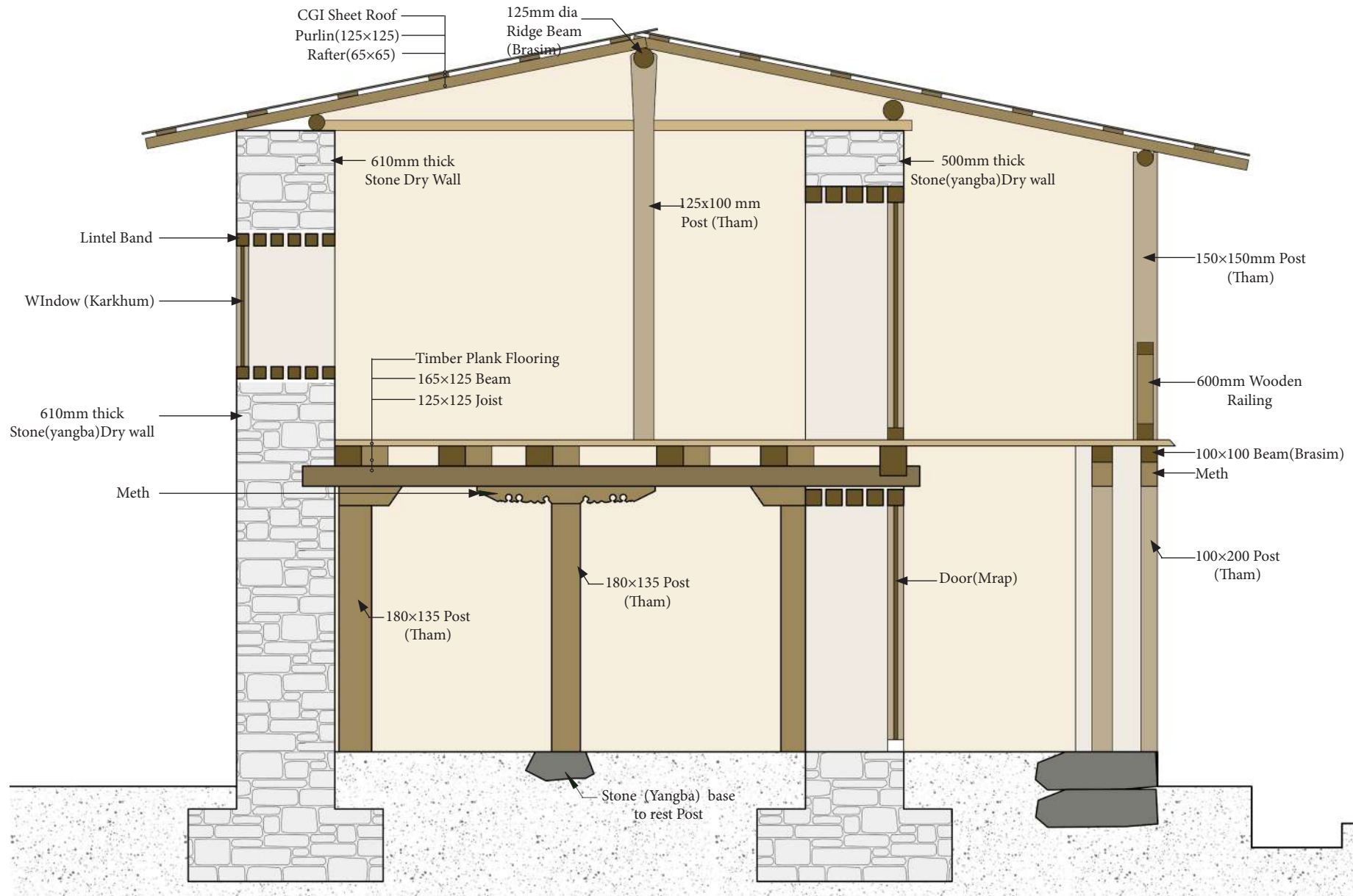
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



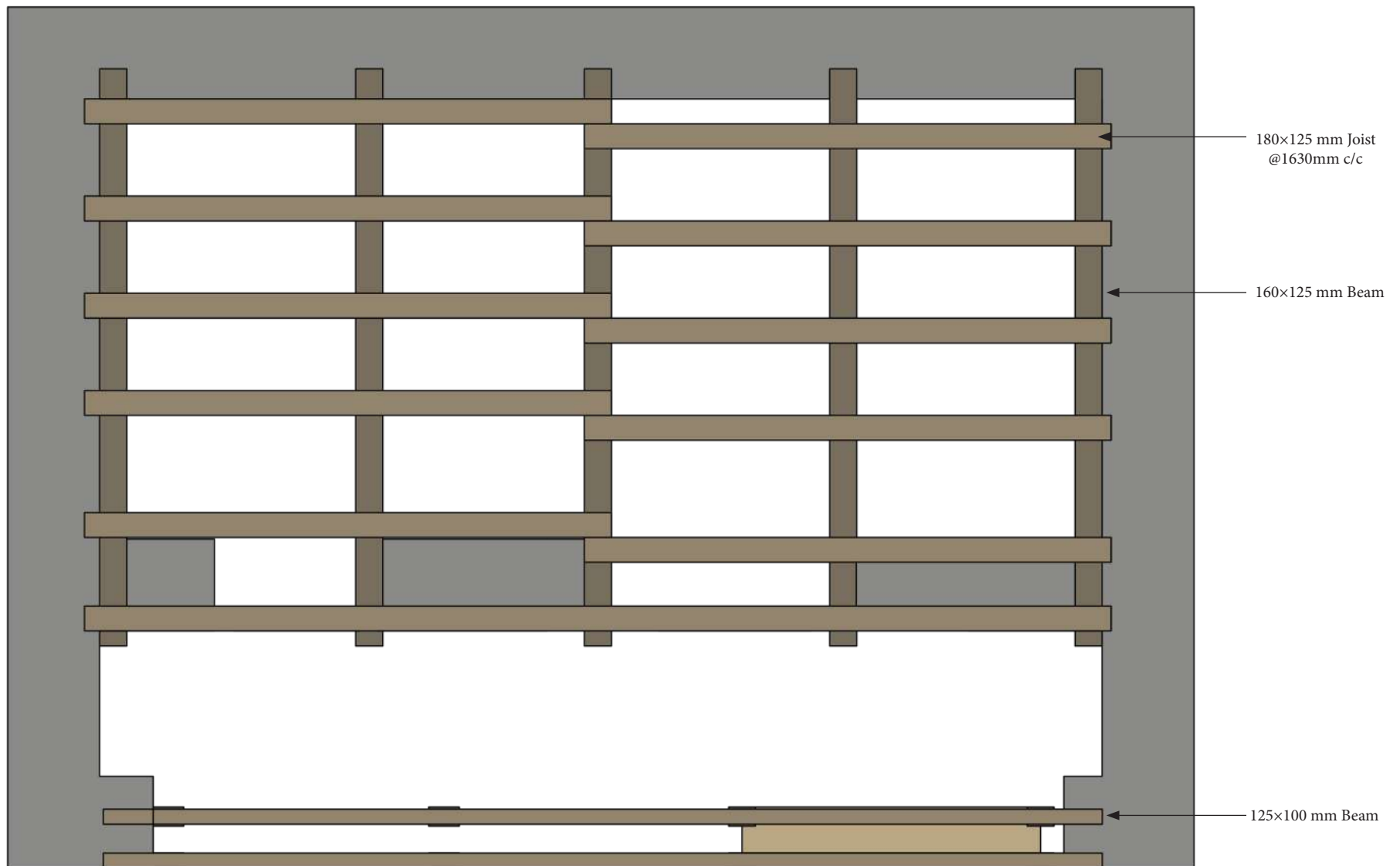
Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



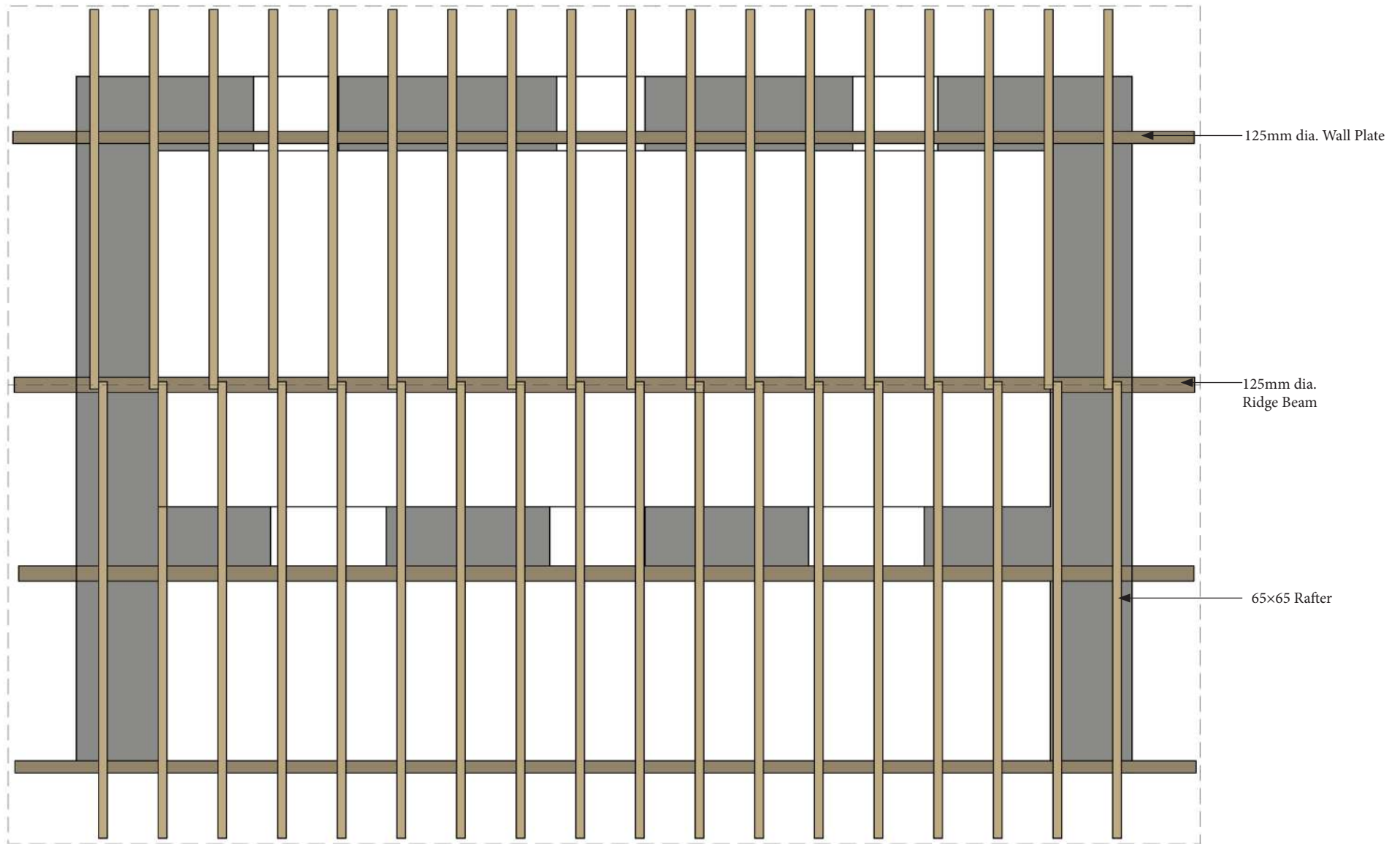
Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



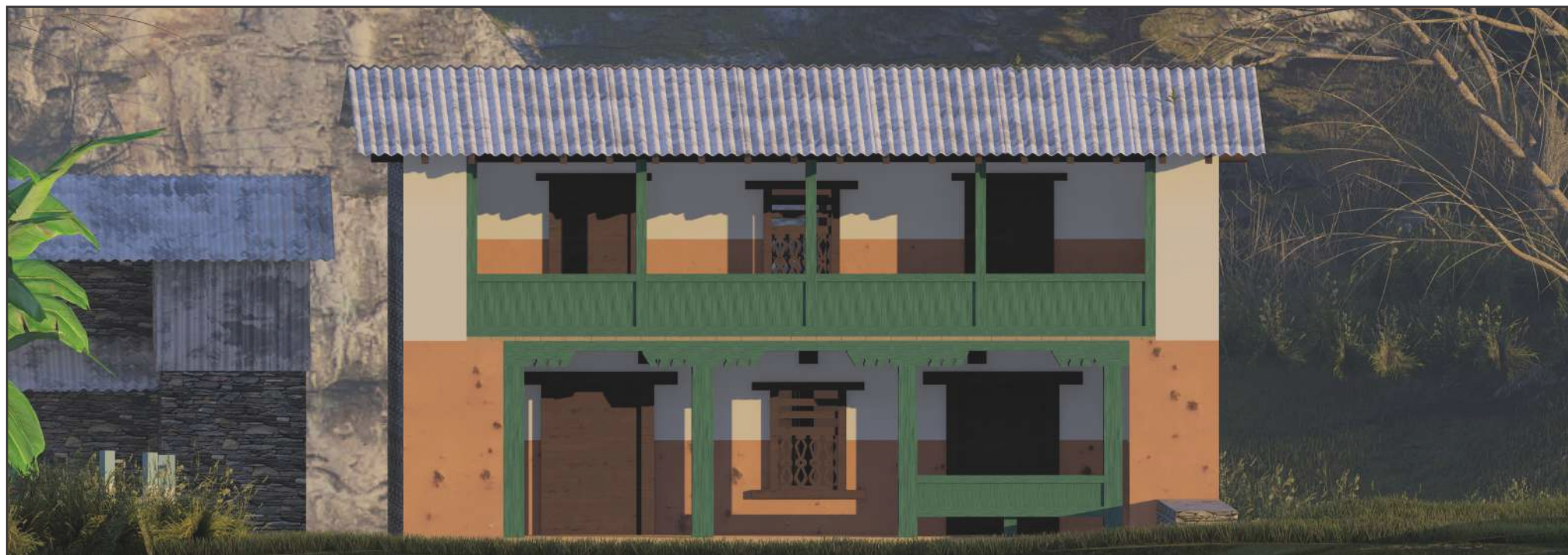
First Floor Joist Plan

NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



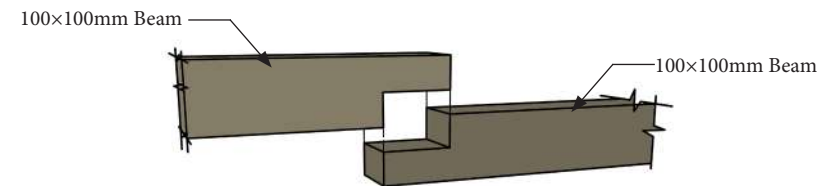
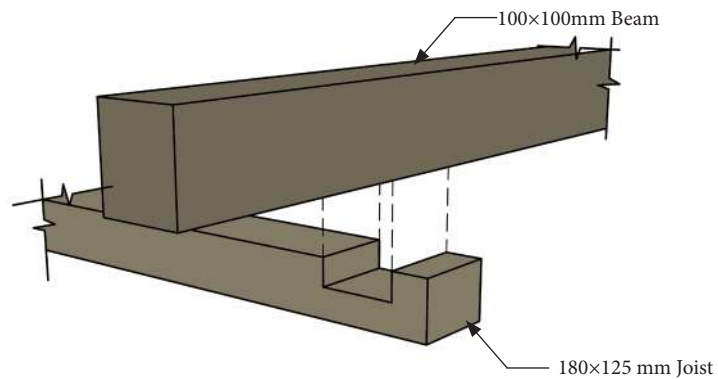
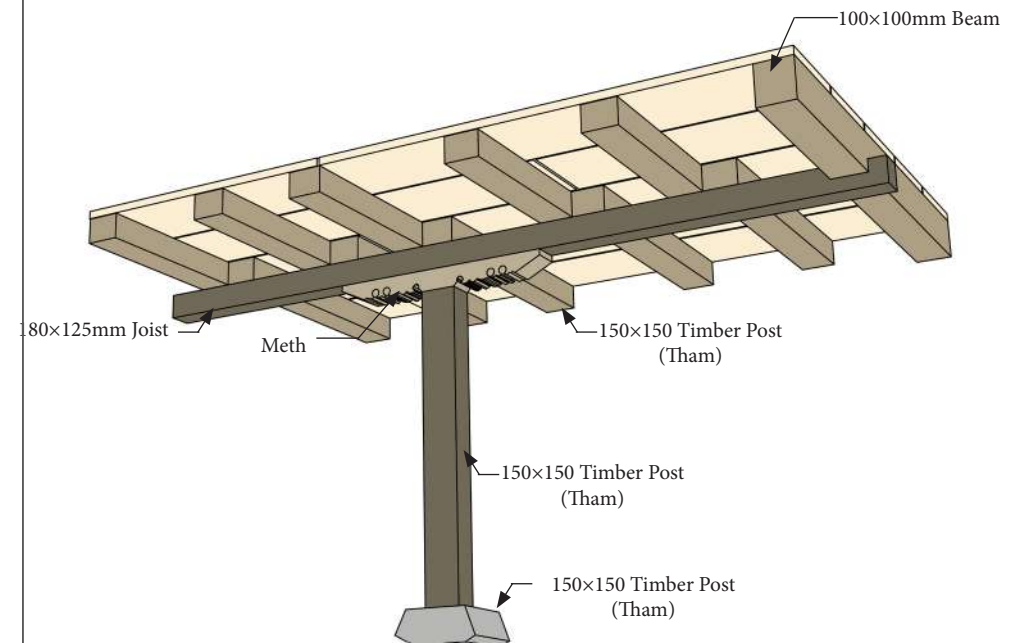
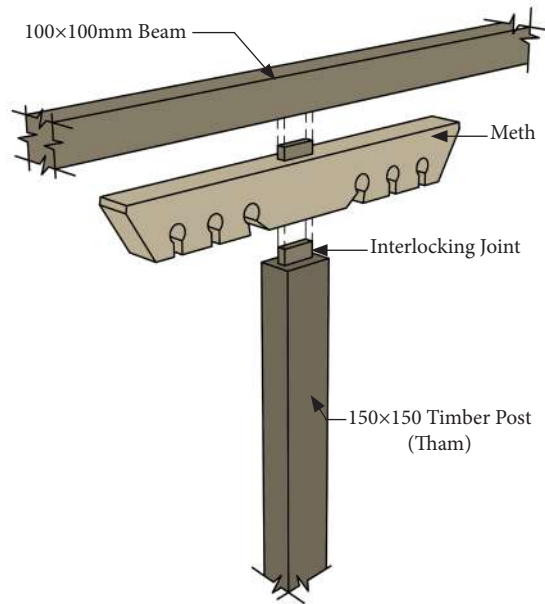
Front Elevation



Side Elevation

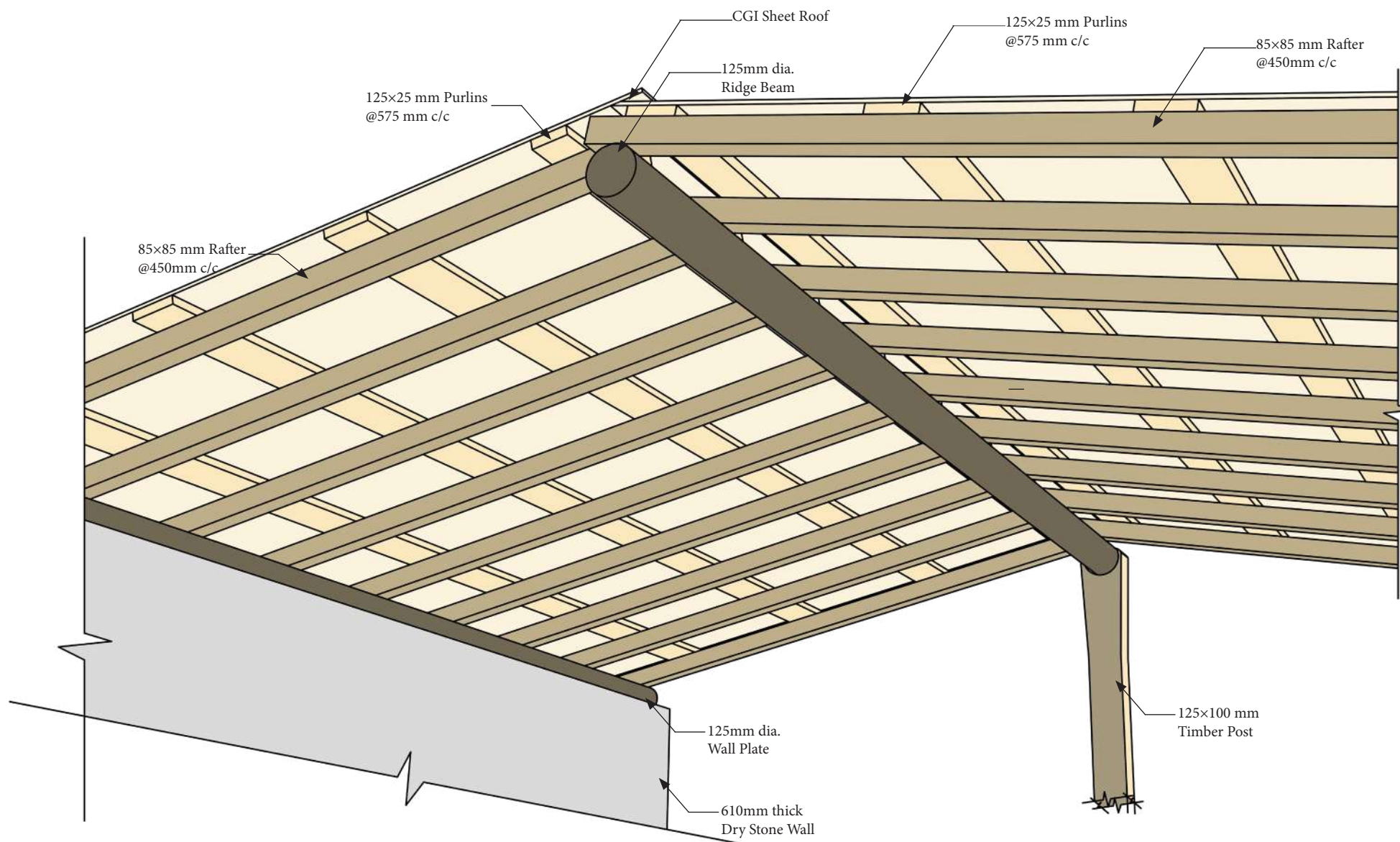


Back Elevation



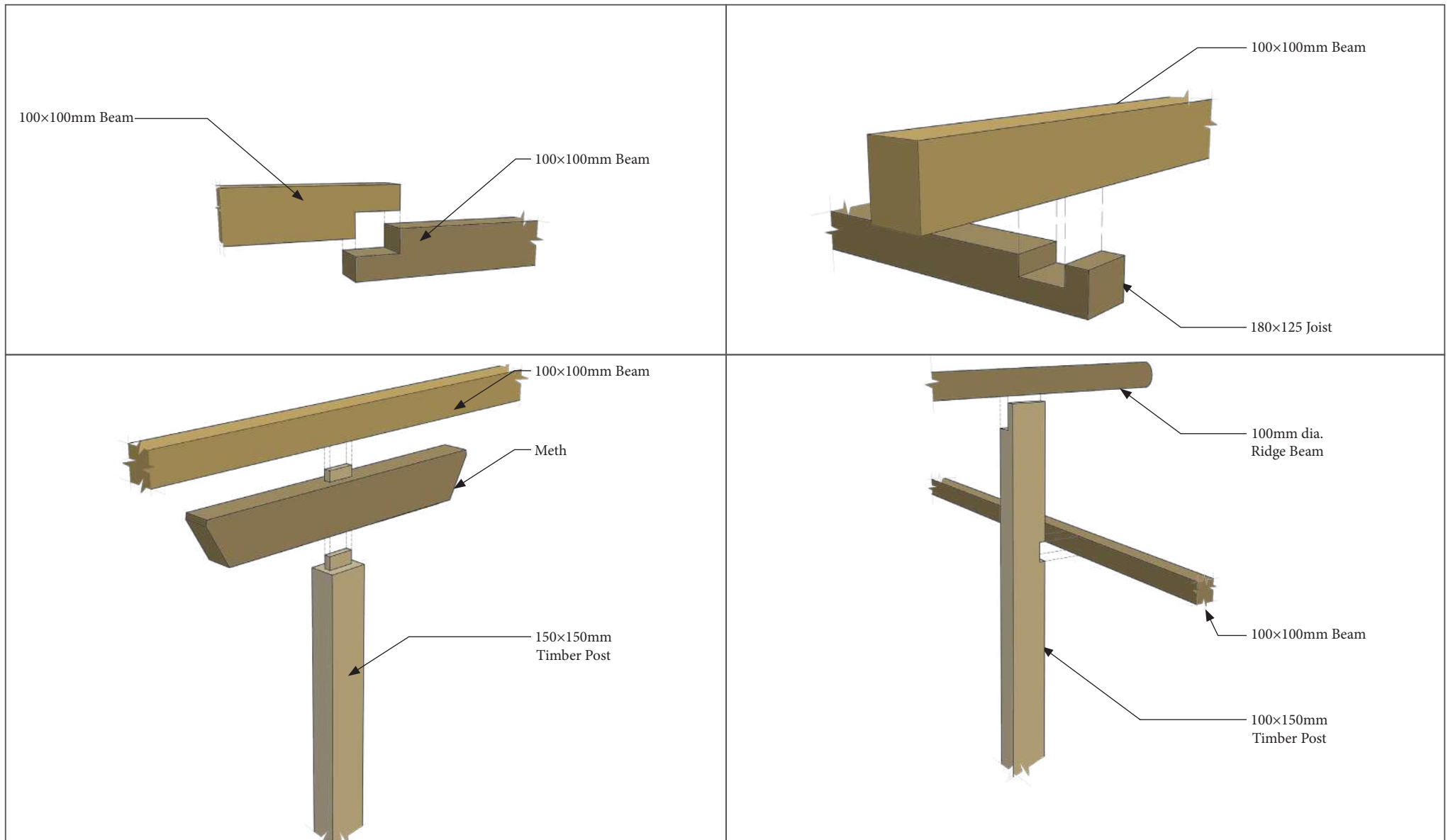
Typical Timber Connection

NOTE: This typical timber connection detail illustrates the overlap joint used for horizontal members and the timber post-to-beam connection. The members are joined using traditional mortise-and-tenon joints without the use of iron nails.



Roof Detail

NOTE: Traditionally, timber planks known as Panglep were used as the roof covering, supported by timber rafters and purlins. However, following the earthquake and due to their ease of maintenance, corrugated galvanized iron (CGI) sheets have become the predominant roofing material.



Typical Timber Connection

NOTE: This typical timber connection detail illustrates the overlap joint used for horizontal members and the timber post-to-beam connection. The members are joined using traditional mortise-and-tenon joints without the use of iron nails.

KHADING SETTLEMENT

RUBY VALLEY RURAL MUNICIPALITY, WARD 06, DHADING

SETTLEMENT PLAN



Fig: Settlement Map of Khading

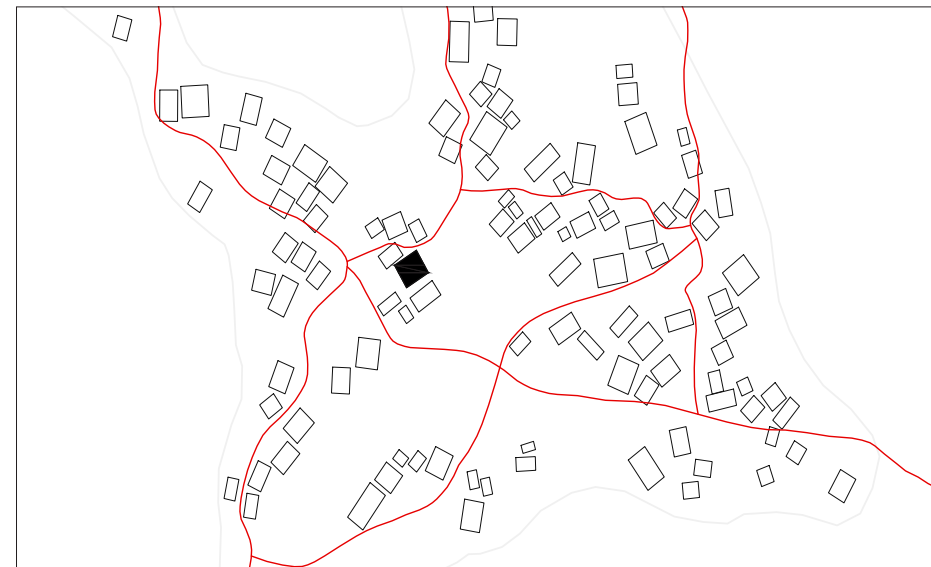
KHADING SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-o6

Measured House: BT22

1. House owner name: Dal Bahadur Gurung
2. Location: Khading
3. Building age: 50 Yrs.
4. No. of current family member living: 3
5. Ground coverage area: 54.37 sq. m.
6. Use of building: Residence



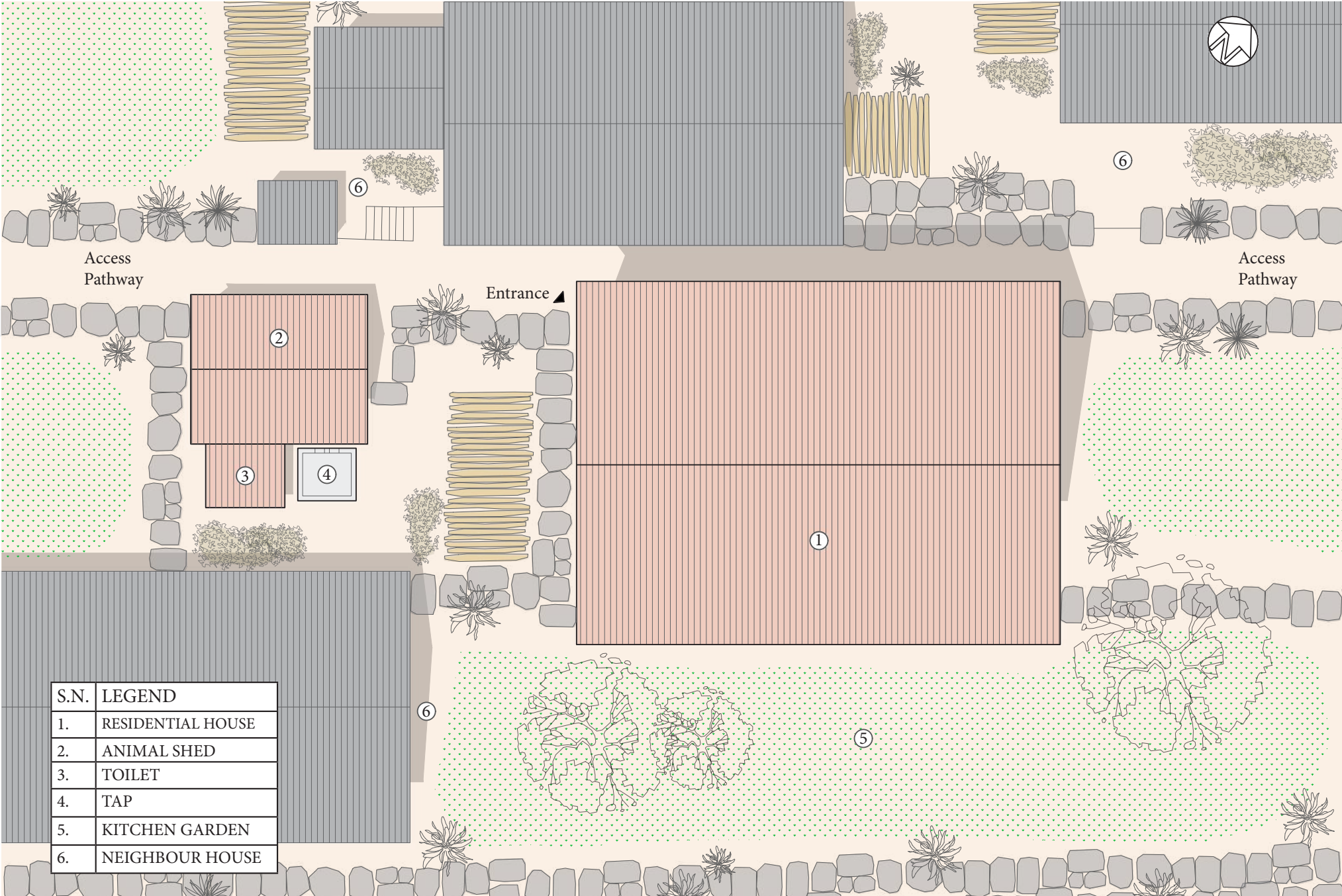
Measured House Location Map



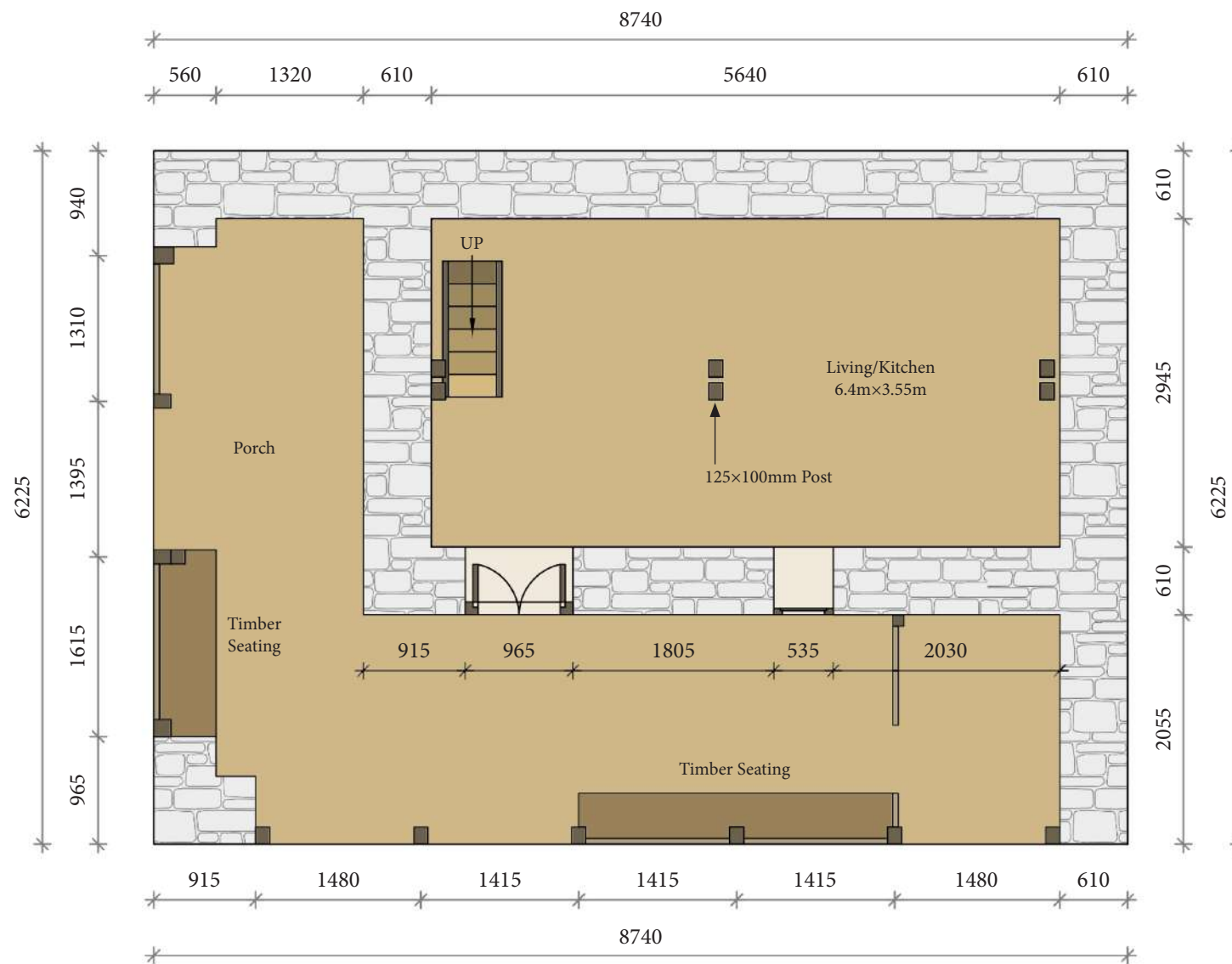
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Measured House Photos

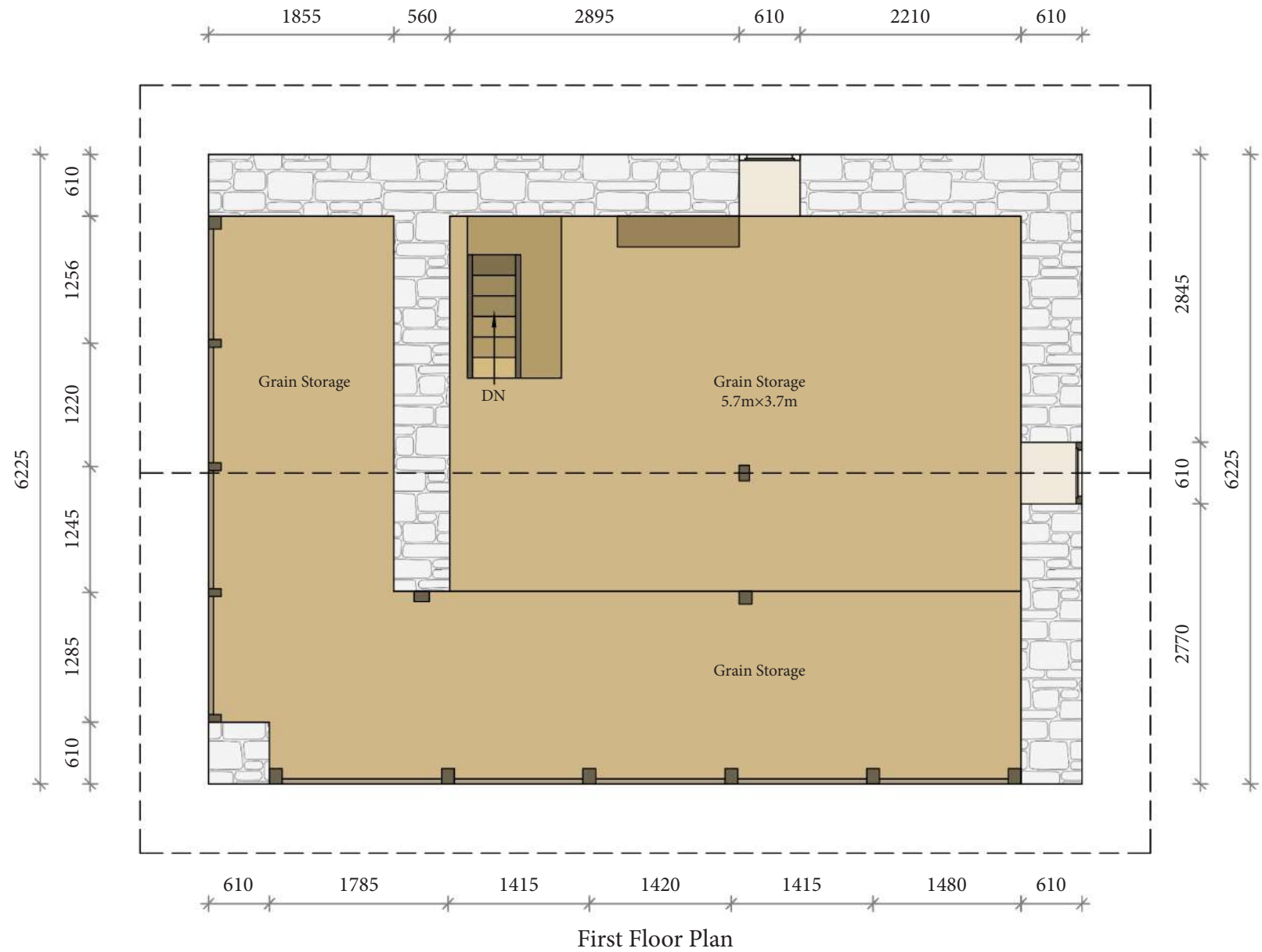


Site Plan



Ground Floor Plan

NOTE: The ground floor is primarily used for storing firewood and housing livestock. In some cases, it is also used for storing materials and grain, with a separate ancillary structure provided as a cattle shed.



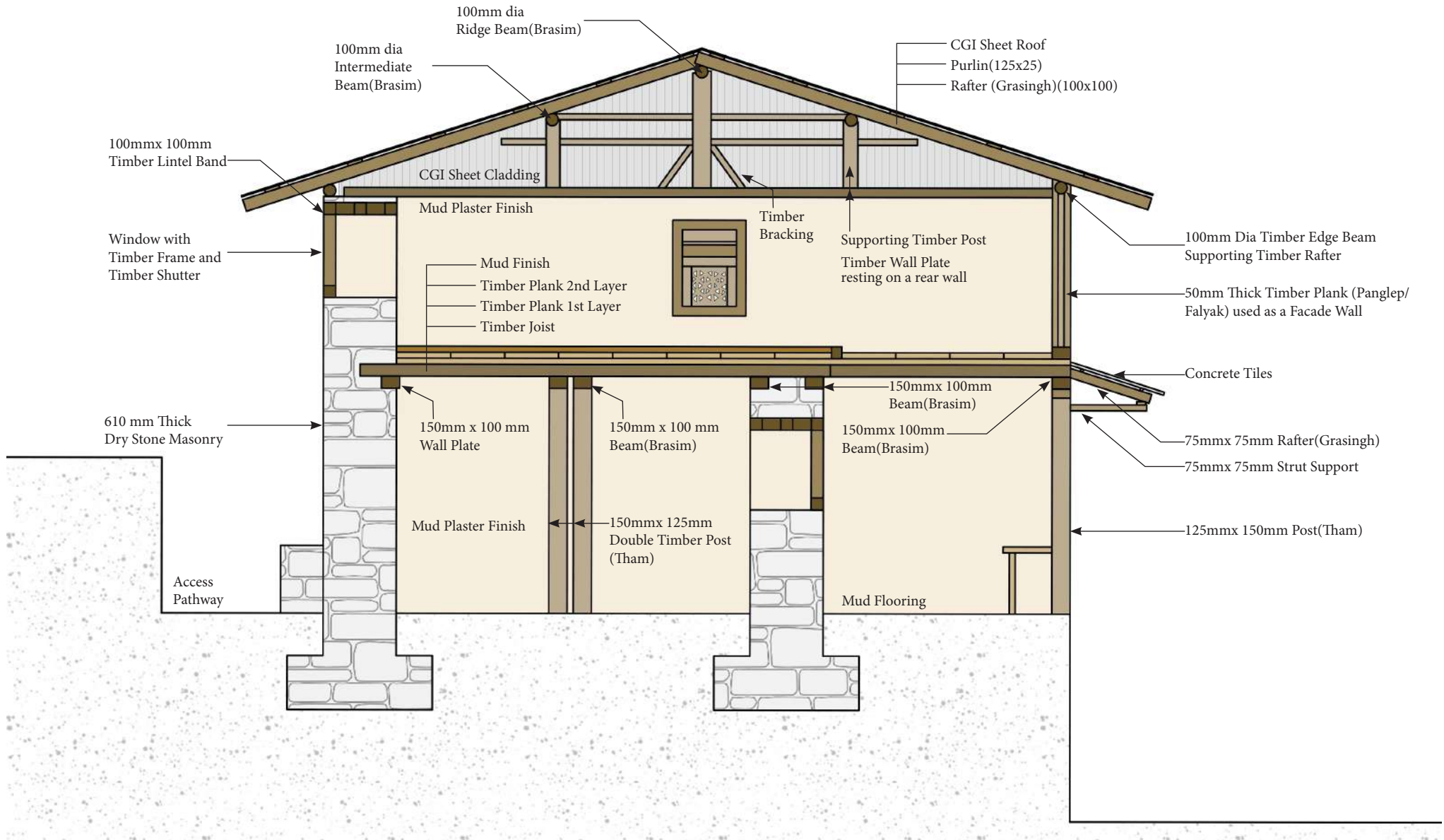
First Floor Plan

NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



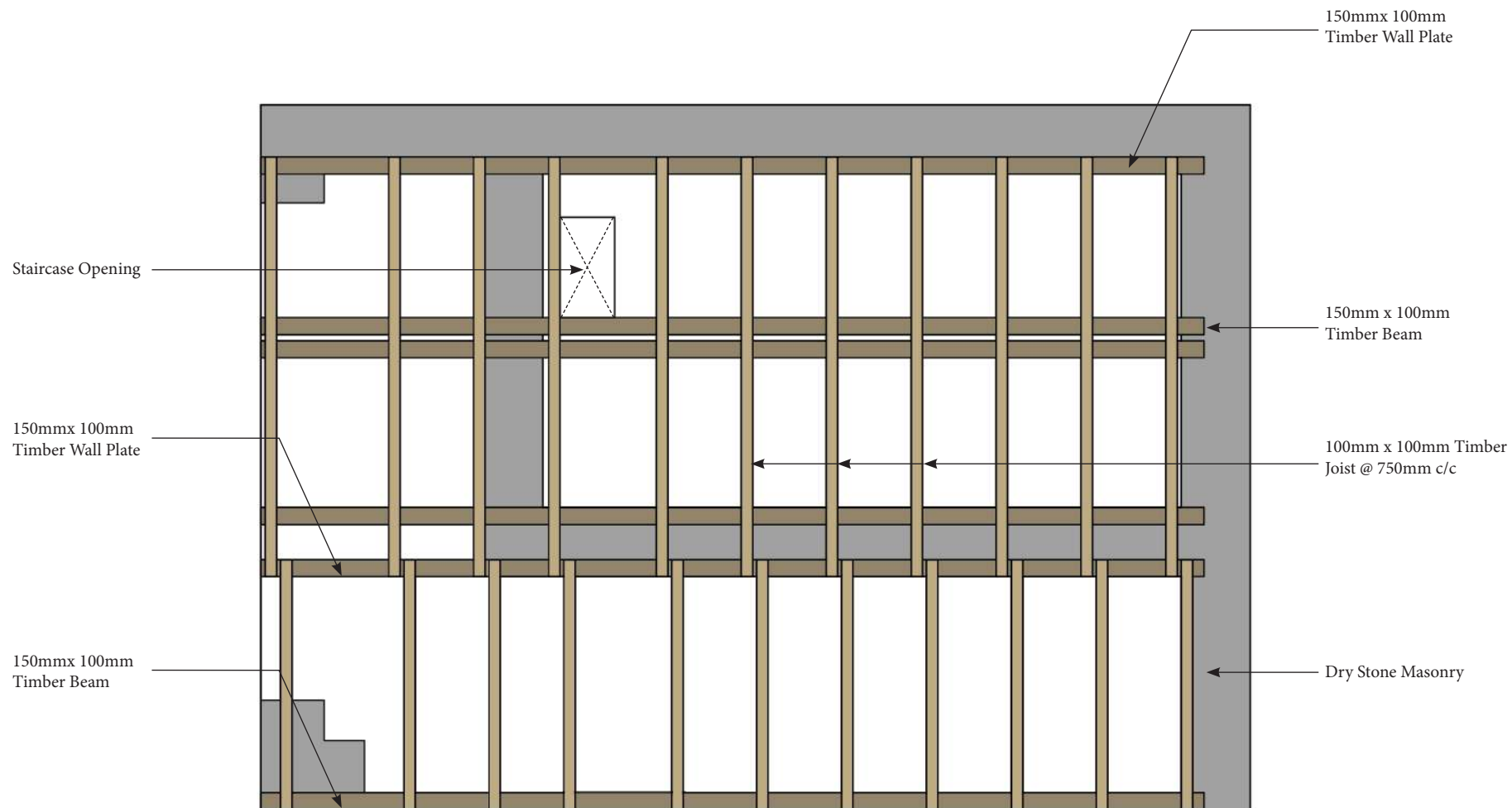
Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



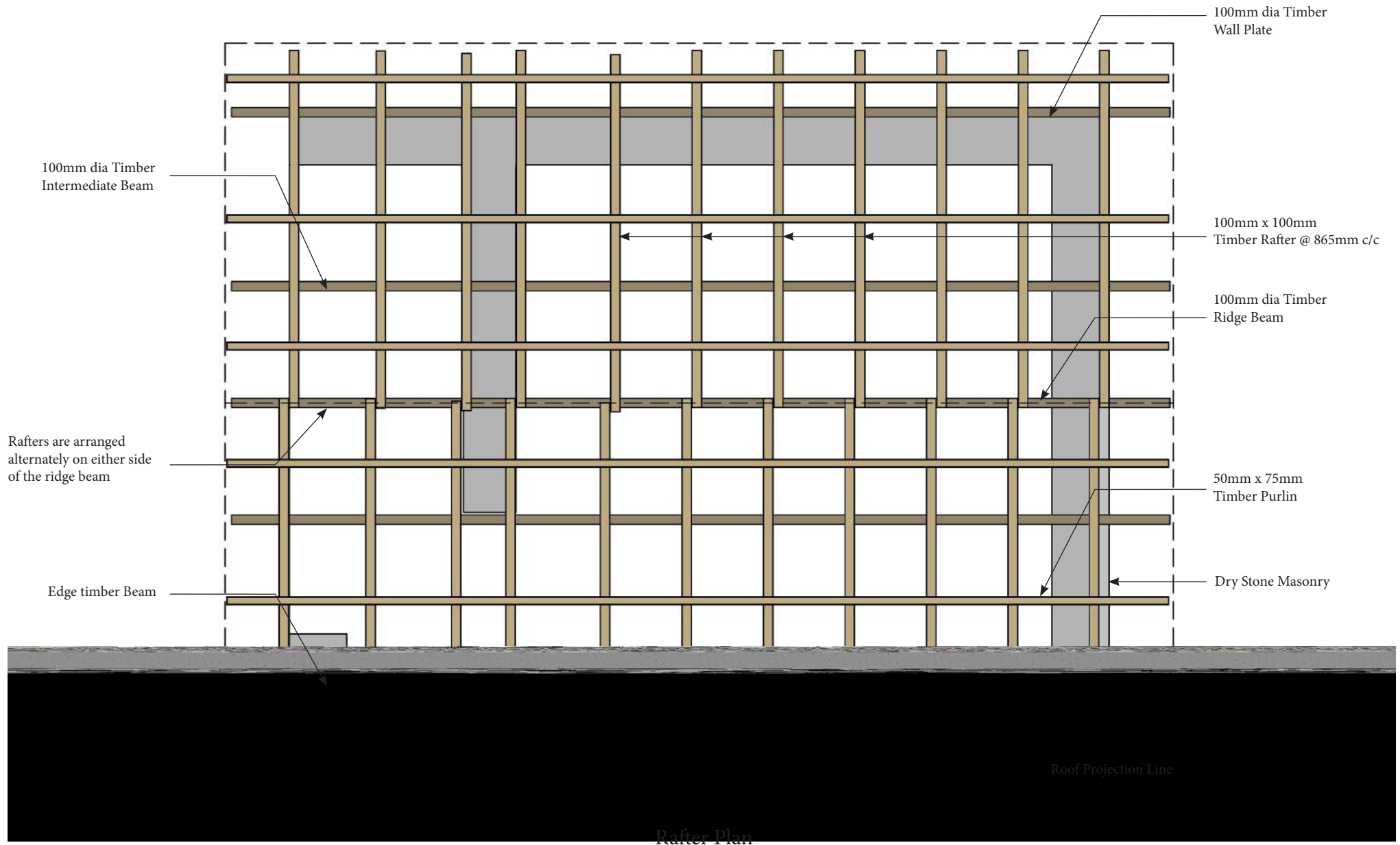
Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.

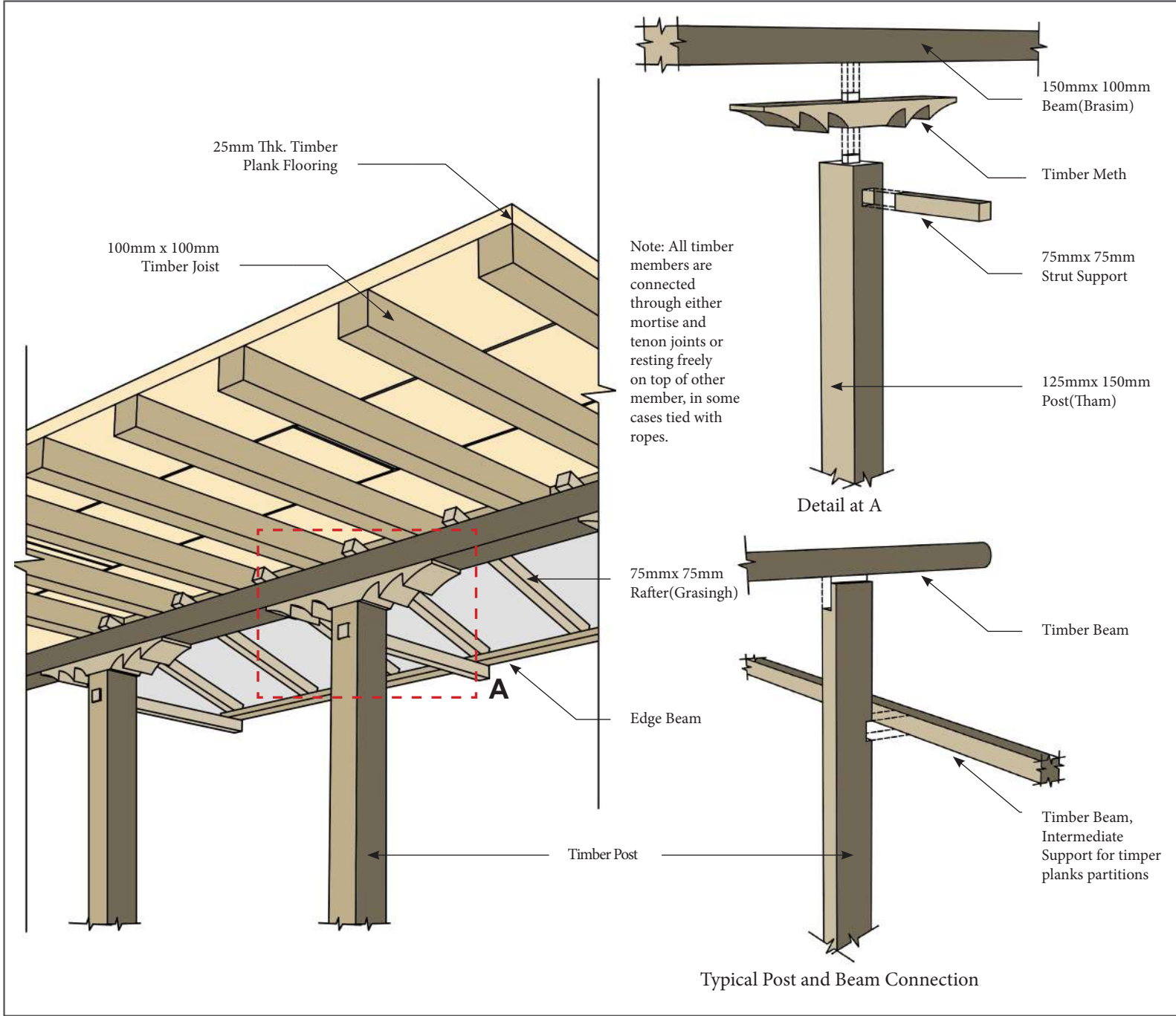


First Floor Joist Plan

NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



Post Detail



Timer Post with Meth and Beam Connection

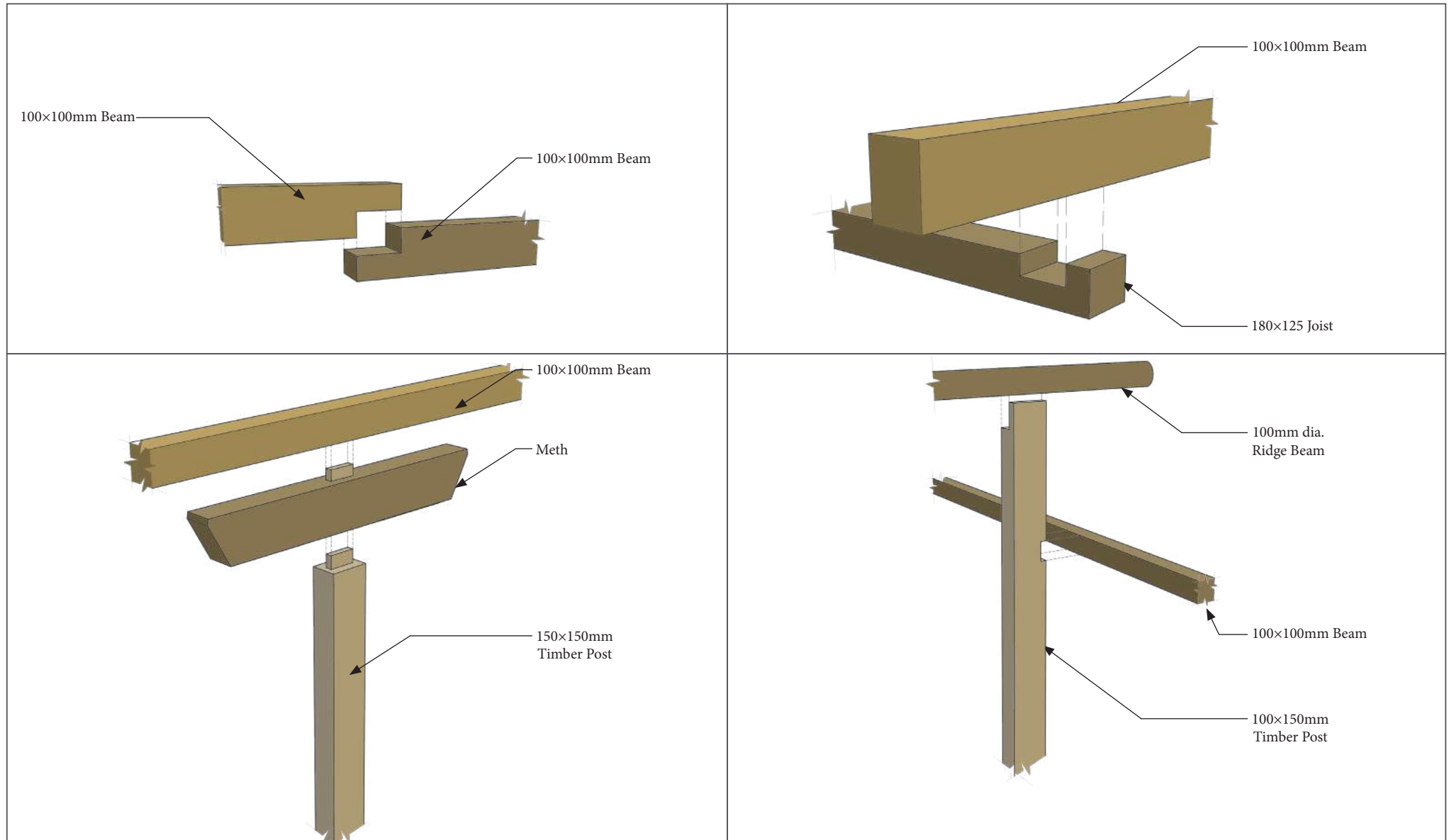


Concrete Tiles as a Roof Covering



Timber Strut Supporting the Roof Projection

Photographs



Typical Timber Connection

NOTE: This typical timber connection detail illustrates the overlap joint used for horizontal members and the timber post-to-beam connection. The members are joined using traditional mortise-and-tenon joints without the use of iron nails.



Front Elevation



Side Elevation



Back Elevation



Side Elevation

KHADING SETTLEMENT

RUBY VALLEY GAUPALIKA

WARD-o6

Measured House: BT20

1. House owner name: Jit Bahadur Gurung
2. Location: Khading
3. Building age: 52 Yrs.
4. No. of current family member living: 3
5. Ground coverage area: 67.33 sq. m.
6. Use of building: Residence



Measured House Location Map



Render Image

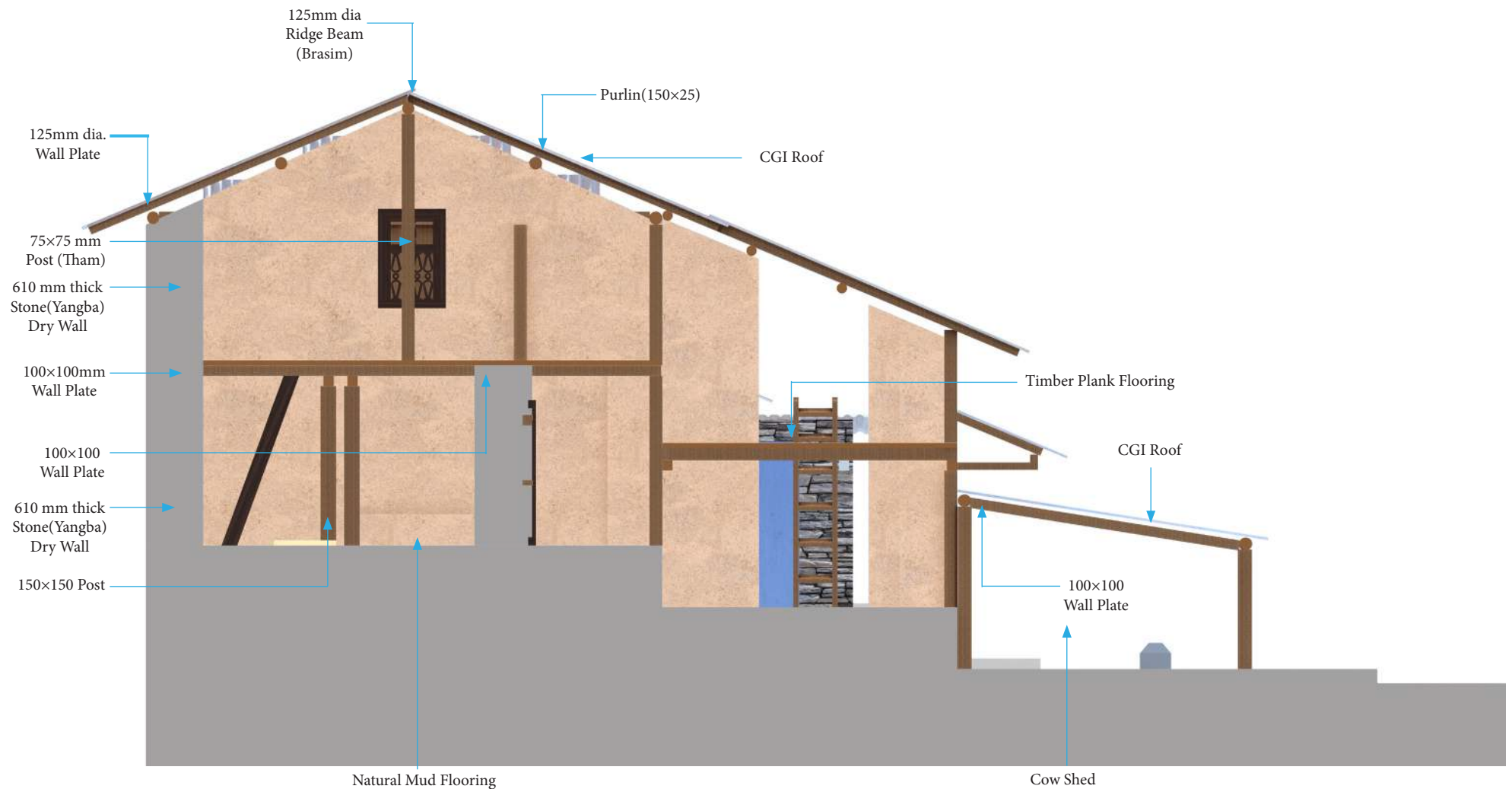


Measured House Photos



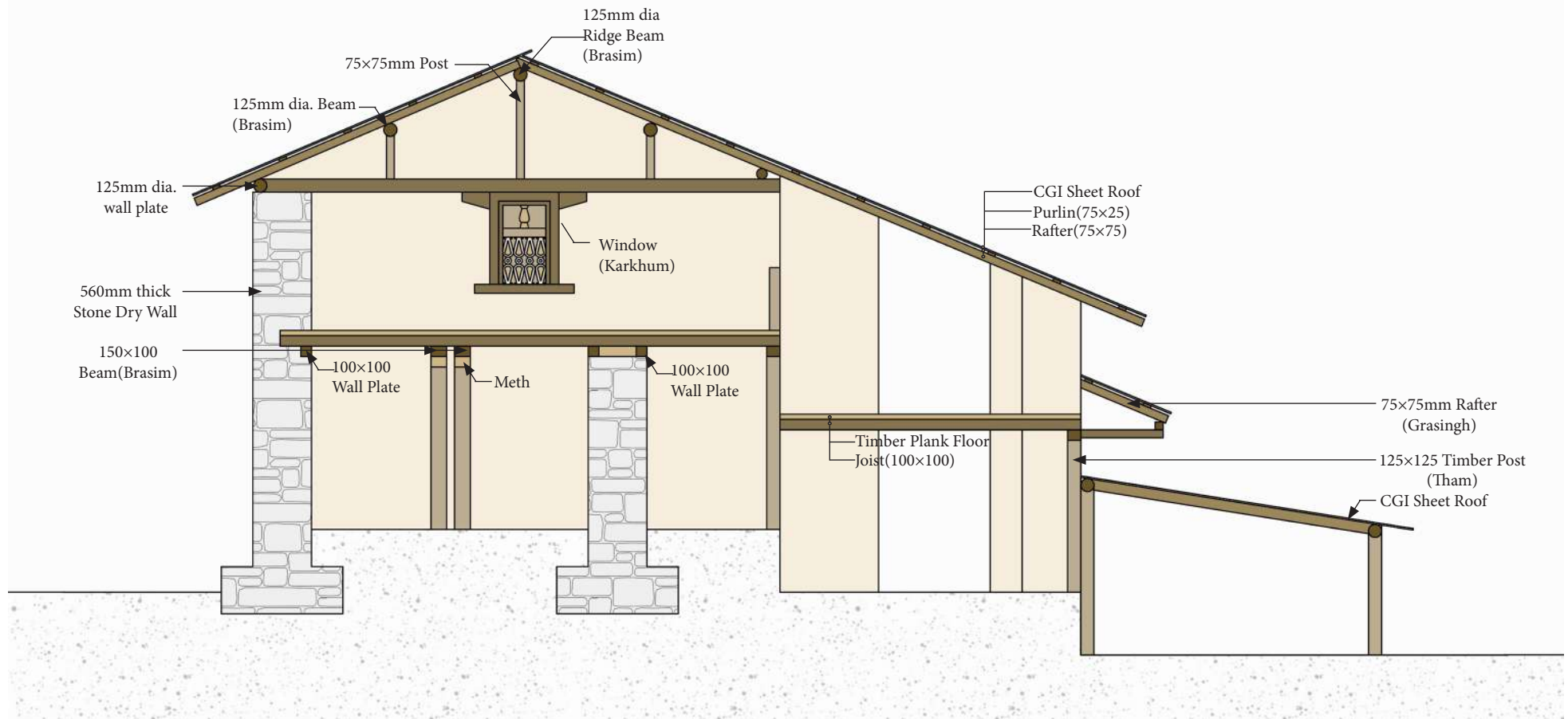


NOTE: The first floor serves as the main habitable space, accommodating the kitchen, living area, bedrooms, and storage. Timber plank partitions are sometimes used to provide privacy for the bedrooms. These private rooms are typically accessed through a transitional balcony space.



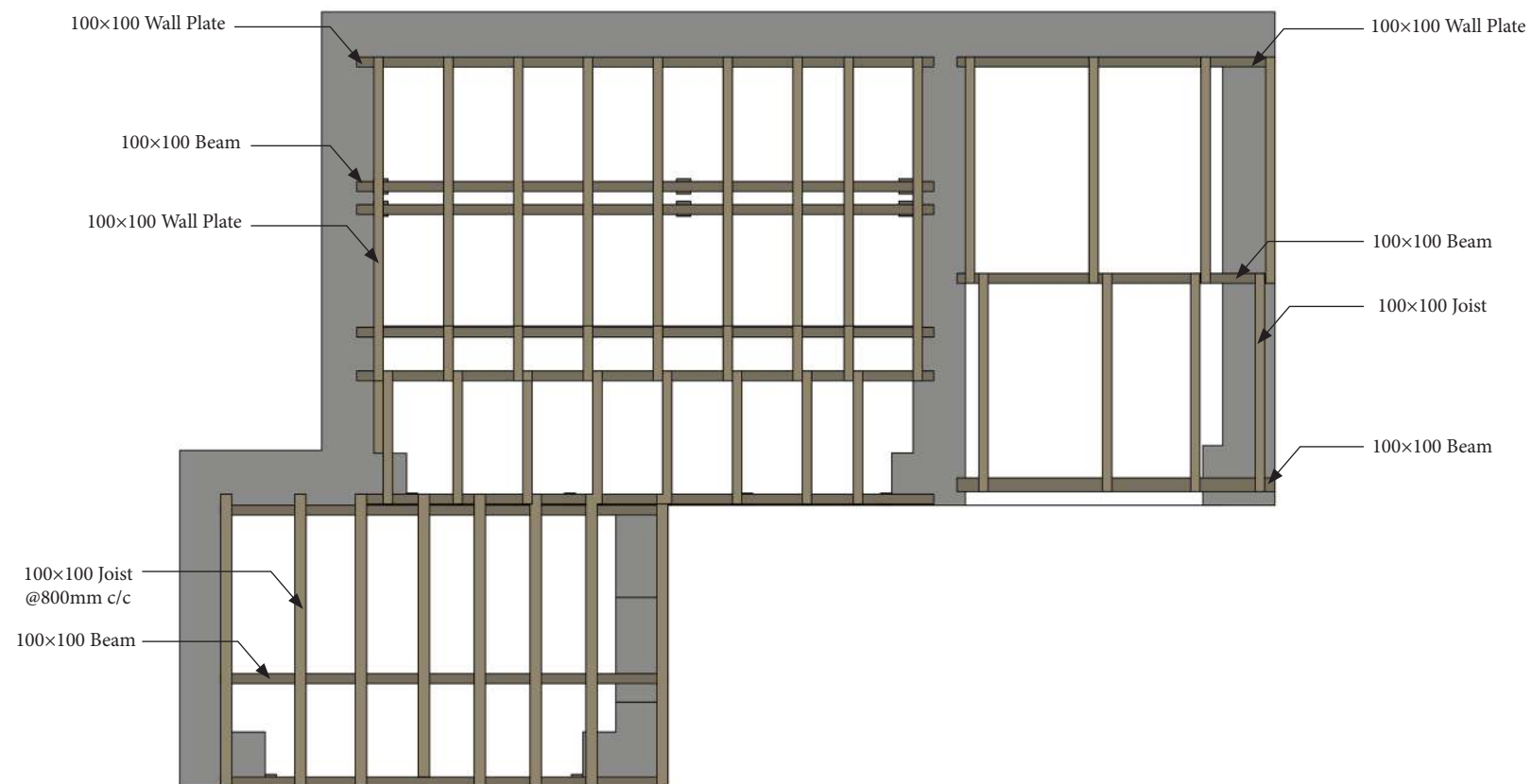
Sectional Perspective View

NOTE: The lower half floor is primarily used for storing firewood and housing livestock. The upper ground floor serves as the main habitable space, accommodating the kitchen, living area, bedroom, and storage. These functions coexist within an open plan, sometimes separated by timber partitions.



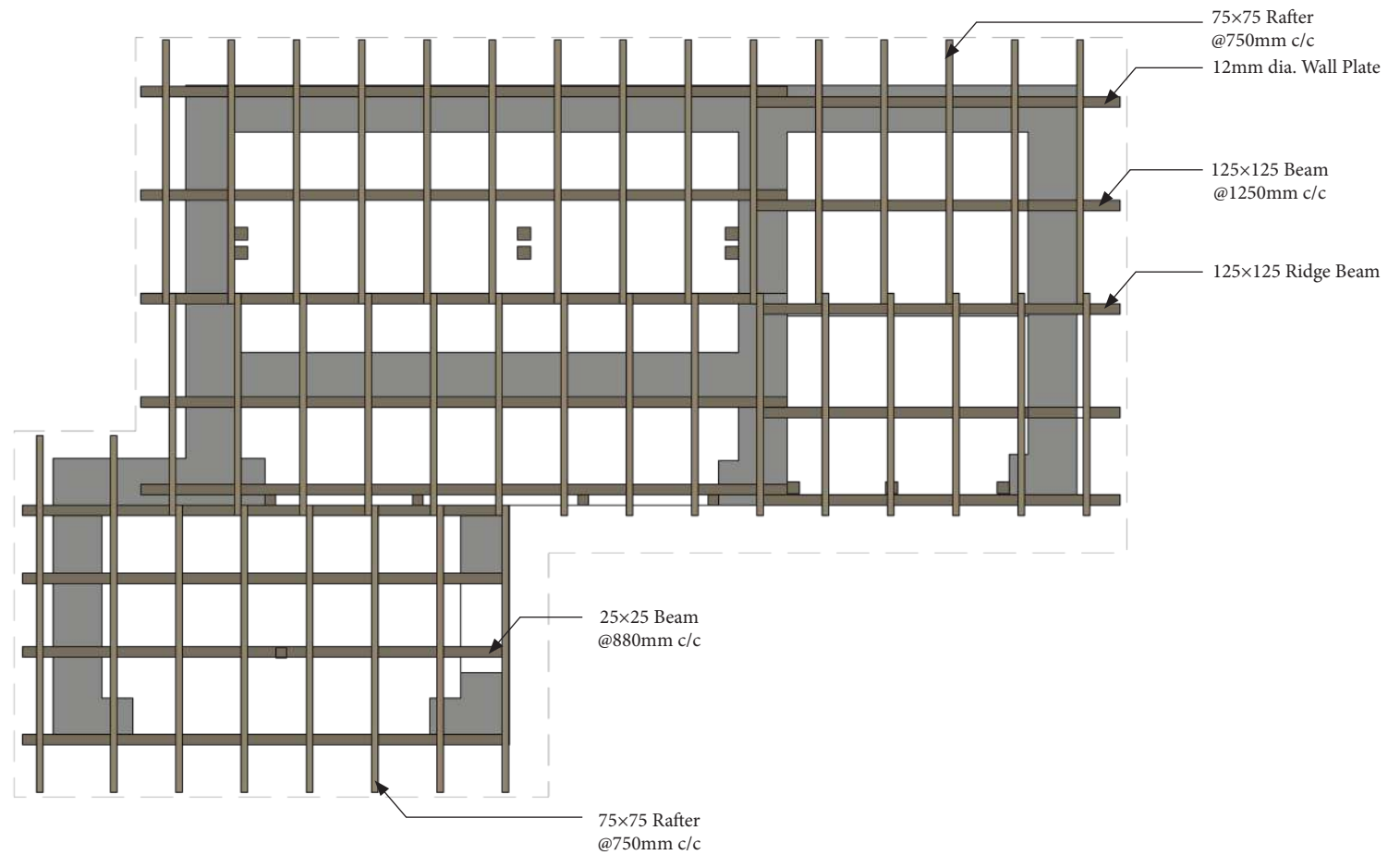
Sectional Detail

NOTE: The house was renovated following the earthquake. The original timber plank roof covering, locally known as Panglep, was replaced with corrugated galvanized iron (CGI) sheeting.



First Floor Joist Plan

NOTE: Timber floor joists are supported by timber beams at both ends and, in most cases, by intermediate beams. The joists are typically lapped over the intermediate beam supports to ensure continuity and structural stability.



Rafter Plan

NOTE: Rafters span from the ridge beam towards the eaves on both sides and are arranged in an alternating pattern along the ridge.



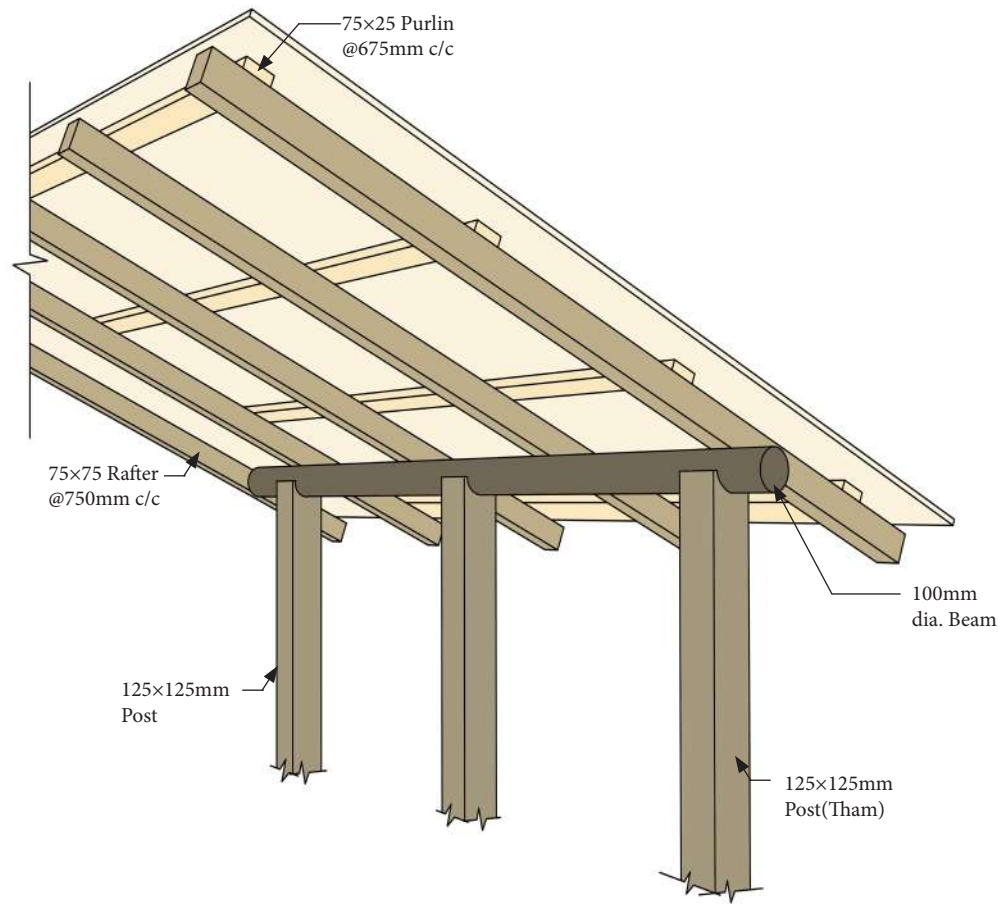
Front Elevation



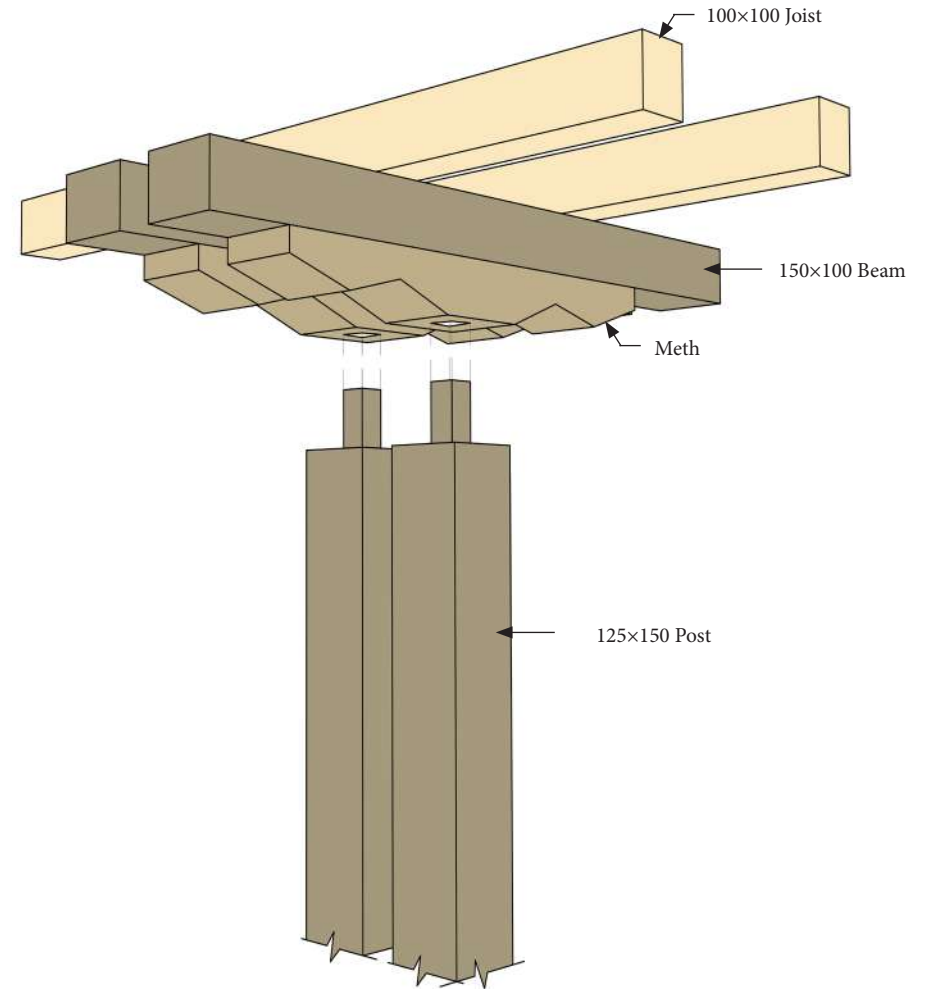
Side Elevation



Back Elevation



Roof Detail



Joint Detail

NOTE: This typical timber connection detail illustrates the overlap joint used for horizontal members and the timber post-to-beam connection. The members are joined using traditional mortise-and-tenon joints without the use of iron nails.

Glossary

Rafter-Grasingh

Small Bamboo-Pra

Wooden Plank-Panglep/Falyak

Foyer-Aangan/Nech

Stone-Yangba

Kitchen-Dung, Tala

Cooking Area- Ko-Daph

Chulo Stand-Phu-sang

Door-Mrap

Window-Karkhum

Column-Tham

Beam-Brasim

Staircase-Li/Le

Floor Plank- Tha

Middle Post- Guda

Roof-Pali

Plinth-DHYAN

First floor-Tala

Ground Floor-Sandim

Aangan-Nehu

Chicken House-Nakha khu

Dining Area-Gosha

Timber partition-Dhen

Room near Kitchen-Jigana

