



THE ACTIVITIES OF DISASTER - AFFECTED HOUSE IDENTIFICATION IN TANGERANG DISTRICT

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Abstract

Home is a basic human need. A house that is easy to interpret is a real house where a family can live inside. It is supported by the availability of clean water, lighting, and proper environmental equipment to meet basic needs from plumbing to sewerage. It is also safe for residents' activities that residents can objectively accept. Natural disasters are caused by nature in earthquakes, tsunamis, landslides, droughts, hurricanes, floods, and volcanic eruptions that affect people's homes. Rehabilitation activities for houses affected by disasters such as hurricanes, floods, and other disasters carried out by the Tangerang Regency Perkim Service Referring to the Law on the Regional Head of the National Disaster Management Agency of 2008 Number 11 are intended to fulfill the rehabilitation requirements. The important identification activities are carried out to ascertain whether the disaster-affected houses deserve assistance. The identification results become a reference in determining recommendations. Follow up on requests by drawing up plans and a schedule for the construction of the rehabilitation program.

Keywords: *Affected by disaster, identification, recommendation, plan drawing, time schedule*

INTRODUCTION

A disaster is an event or series of events that endanger and harm people's lives and livelihoods due to natural and human factors, resulting in loss of life, property damage, environmental damage, and psychological impact. Events are caused by nature include earthquakes, tsunamis, landslides, droughts, hurricanes, floods, and volcanic eruptions.

In early 2021, floods hit Tangerang Regency, including the Bukit Tiara, Bitung, Pasir Jaya, Pasar Kemis, and Cikupa housing estates. On January 29th, 2021, a landslide occurred in Carenang Village in Cisoka District, and three houses were damaged, two of which collapsed along with the landslide and were heavily damaged. It makes the Regional Disaster Management Agency (BPBD) of Tangerang Regency aware of the threat of disasters in several areas in Tangerang Regency. The damage description is shown in Figure 1.



Figure 1. Conditions in the Pakuhaji Sub-district after being hit by a tornado. (Doc. BPBD Tangerang Regency)

As shown in Figures 2 and 3, the tornado that occurred on February 1st, 2021, caused light to severe damage to at least 86 houses in three villages in the Laksana, Rawaboni, and Bonisari villages Pakuhaji sub-district.



Figure 2. Houses in Pakuhaji Sub-district were damaged by a tornado on Monday (1/2/2021)



Figure 3. Residents' Houses in Kohod Village, Pakuhaji District Collapsed After Being Hit by Strong Winds 26 / 02/2021

The Gebrak Pakumis Program, FY 2020 Stimulant Assistance for Home Rehabilitation, is also carried out by the Tangerang Regency Housing, Settlement, and Cemetery Service (Disperkim). This activity includes constructing and rehabilitating houses affected by disasters such as floods, hurricanes, and other disasters. According to the Regulation of the Regional Head of National Disaster Management Agency Number 11 in 2008 concerning Guidelines for Post-Disaster Rehabilitation and Construction, what is meant by disaster victim assistance includes funds, equipment, materials, and human resources (experts, assistants, and workers).

The problems that exist so far are the data collection of disaster-affected houses, which is still based on information that has not been verified by relevant officials, experts, officers, or officials from Perkim. Limited technical personnel understand the function of building structures, so it is necessary to provide guidance and assistance to technical personnel related to knowledge and skills in post-disaster house rehabilitation activities. The purpose of this community service is to record the

damage to houses affected by the disaster, map the damage and identify the damage, make recommendations, and educate the public about habitable buildings.

METHOD AND PROCEDURES

The method of community service activities is shown in Figure 4 below

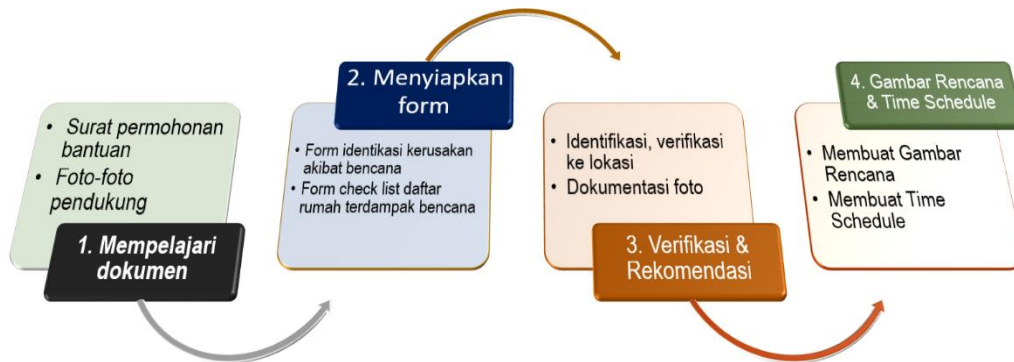


Figure 4. Method of Service Implementation

The activity stages include coordination activities, preparation activities, identification activities, and recommendations which are described in Figure 5 as follows:



Figure 5. Stages of Activities

The location of Post-Disaster House Rehabilitation Stimulant Assistance activity for the Gebrak Pakumis FY 2021 Program is in Tigaraksa (A) Sub-Districts Jambe (B), Pakuhaji (C), and Rajeg (D), as shown in Figure 6.

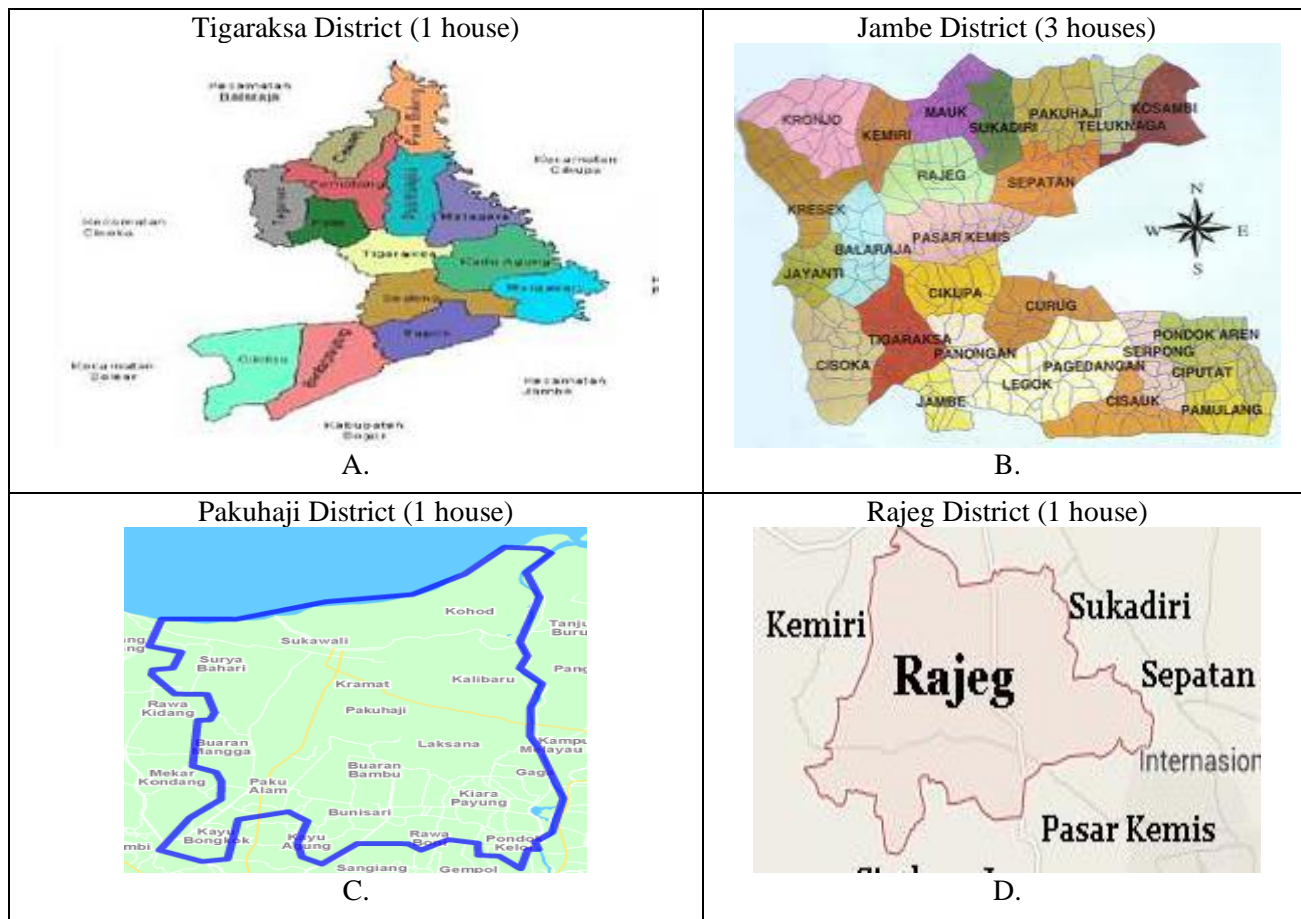


Figure 6. District Location of Rehabilitation Activities

RESULTS

The activities results are described in the form of pictures as follows:

Name of the owner of the house: Mrs. Kartini Location: **Jambe District**



Roof construction is made of rotting bamboo. It has collapsed when a big wind hits it.



The condition of the room in the house is damaged due to the fragile roof structure.



No column reinforcement, so it is very prone to collapse.

Figure 7. House of Mrs. Kartini




Name of the owner of the house: Mrs. Bonai Location: Jambe District (riverside)		
		
The roof construction was made from rotting bamboo. It has collapsed when hit by strong winds.	The wall condition is due to frequent flooding every time a flood comes.	No column reinforcement, so it is very prone to collapse.

Figure 8. House of Mrs Bonai




Name of house owner: Mrs. Watii Location: Jambe District (riverside)		
		
Roof construction is made from rotting bamboo. It has collapsed when hit by a big wind.	The wall condition is due to frequent flooding every time a flood comes.	No column reinforcement, so it is very prone to collapse

Figure 9. House of Mrs Wati




The name of house owner:Mr. Jahim Location: Rajeg District		
		
Column structures, ring barks, and roofs that are not functional are very susceptible to collapse. For the lower part of the structure, the condition of the rolag bricks is still good and can be used. A tornado caused this damage.		

Figure 10. House of Mr. Jahim

The name of house owner: Mr. Ojah Location: **Tigaraksa District**




		
<p>Roof construction from rotting bamboo had collapsed when a hurricane hit it.</p>	<p>The room condition in the house is damaged due to the fragile roof structure.</p>	<p>There is no column reinforcement, so it is very prone to collapse.</p>

Figure 11. House of Mr. Ojah

The name of house owner: Mr. Hasanudin Location: **Pakuhaji District**


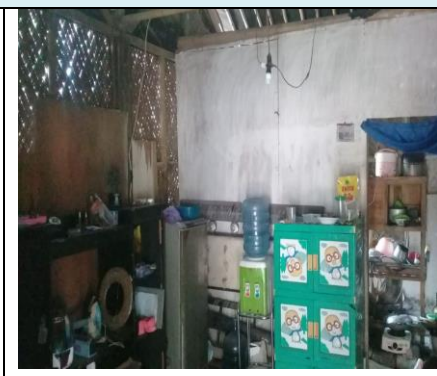

		
<p>Roof construction from rotting bamboo had collapsed when a hurricane hit it.</p>	<p>The room condition in the house is damaged due to the fragile roof structure.</p>	<p>There is no column reinforcement, so it is very prone to collapse.</p>

Figure 12. House of Mr. Hasanudin



Figure 13. Documentation of Coordination



Figure 14. Identification Documentation



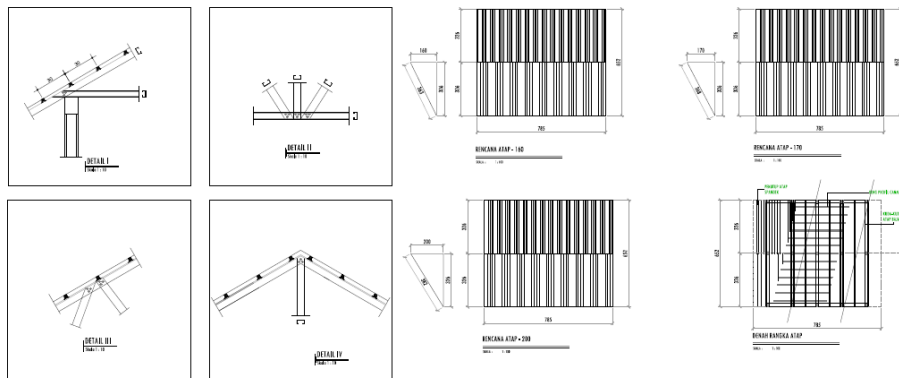
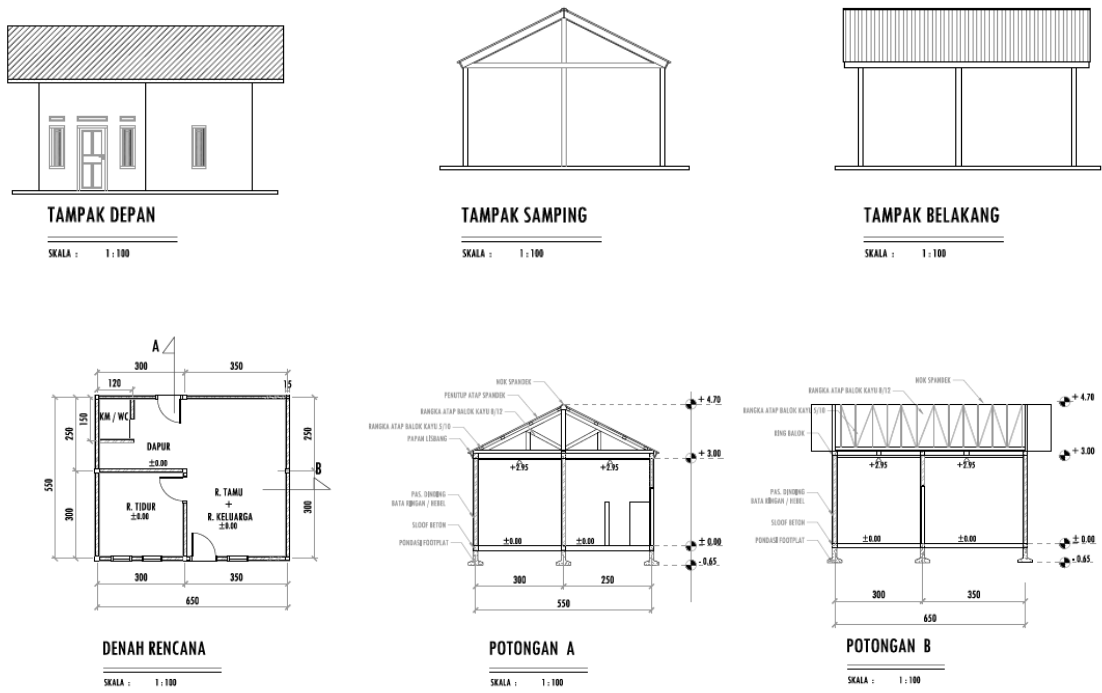
Figure 15. Identification Documentation



Figure 16. Verification Documentation

Check List Of Uninhabitable Home Rehabilitation Identification Documents

No	Homeowner Name	districts	Damage Rate	Recommendation
1.	Mrs. Kartini	Jambe	ALMOST FALLEN	Reconstruction
2.	Mrs. Bona	Jambe	WEIGHT BROKEN	Relocation
3.	Mrs. Wati	Jambe	WEIGHT BROKEN	Relocation
4.	Mr. Jahim	Rajeg	WEIGHT BROKEN	Reconstruction
5.	Mr. Ojah	Tigaraksa	ALMOST FALLEN	Reconstruction
6.	Mr. Hasanudin	Pakuhaji	WEIGHT BROKEN	Reconstruction



BENTUK PERUBAH	KODE	REPERANGKAIAN
	C 75	C 75/75 mm
	R 15	R 15/15 mm

Detail Kuda - Kuda
 Skala 1 : 20

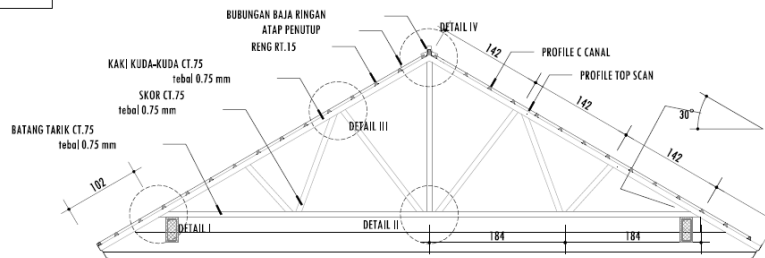


Figure 18. Planned location of Jambe District

3. Location of Tigaraksa District

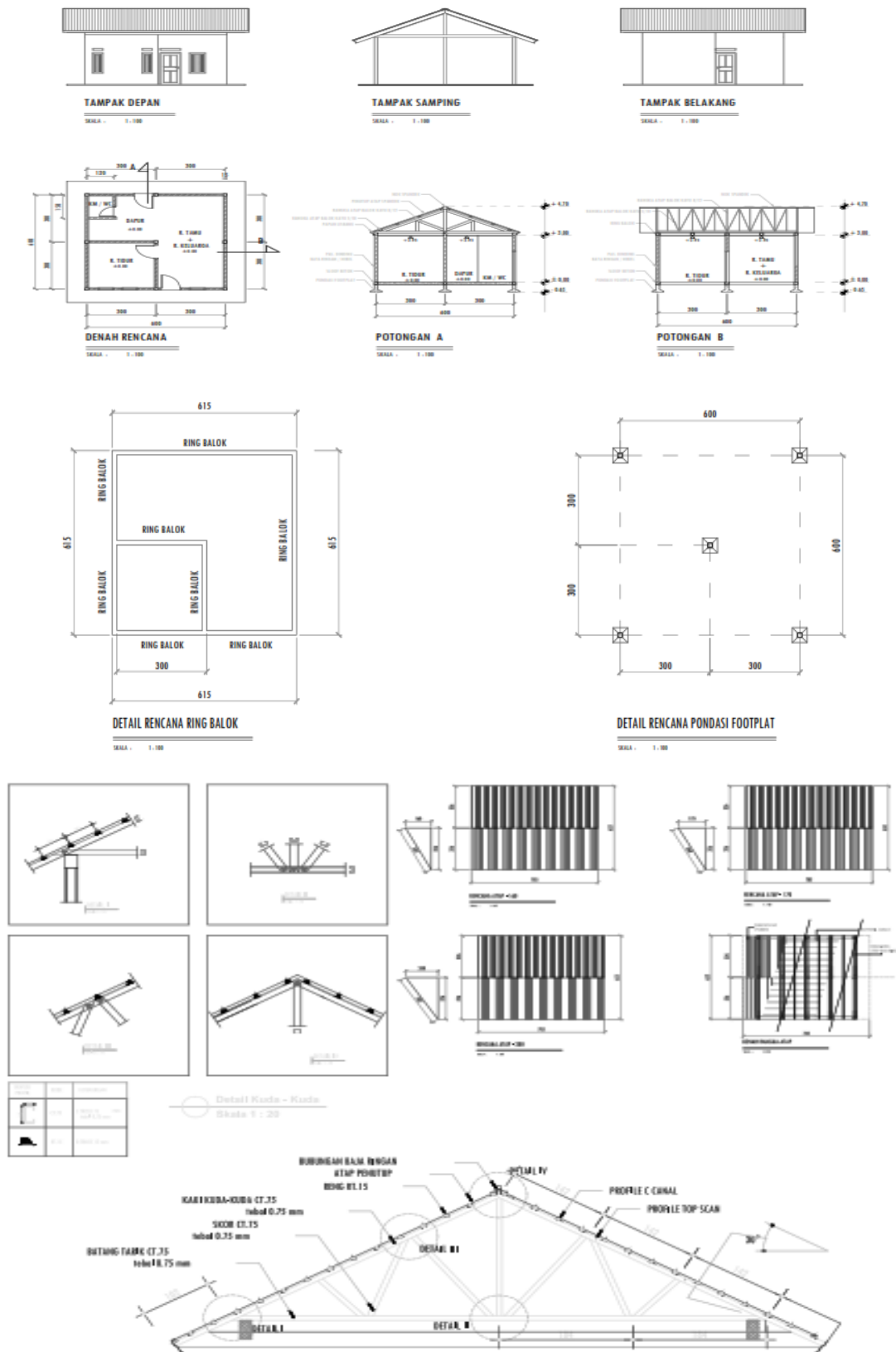


Figure 19. Planned location for Tiga Raksa District

4. Location of Pakuhaji District

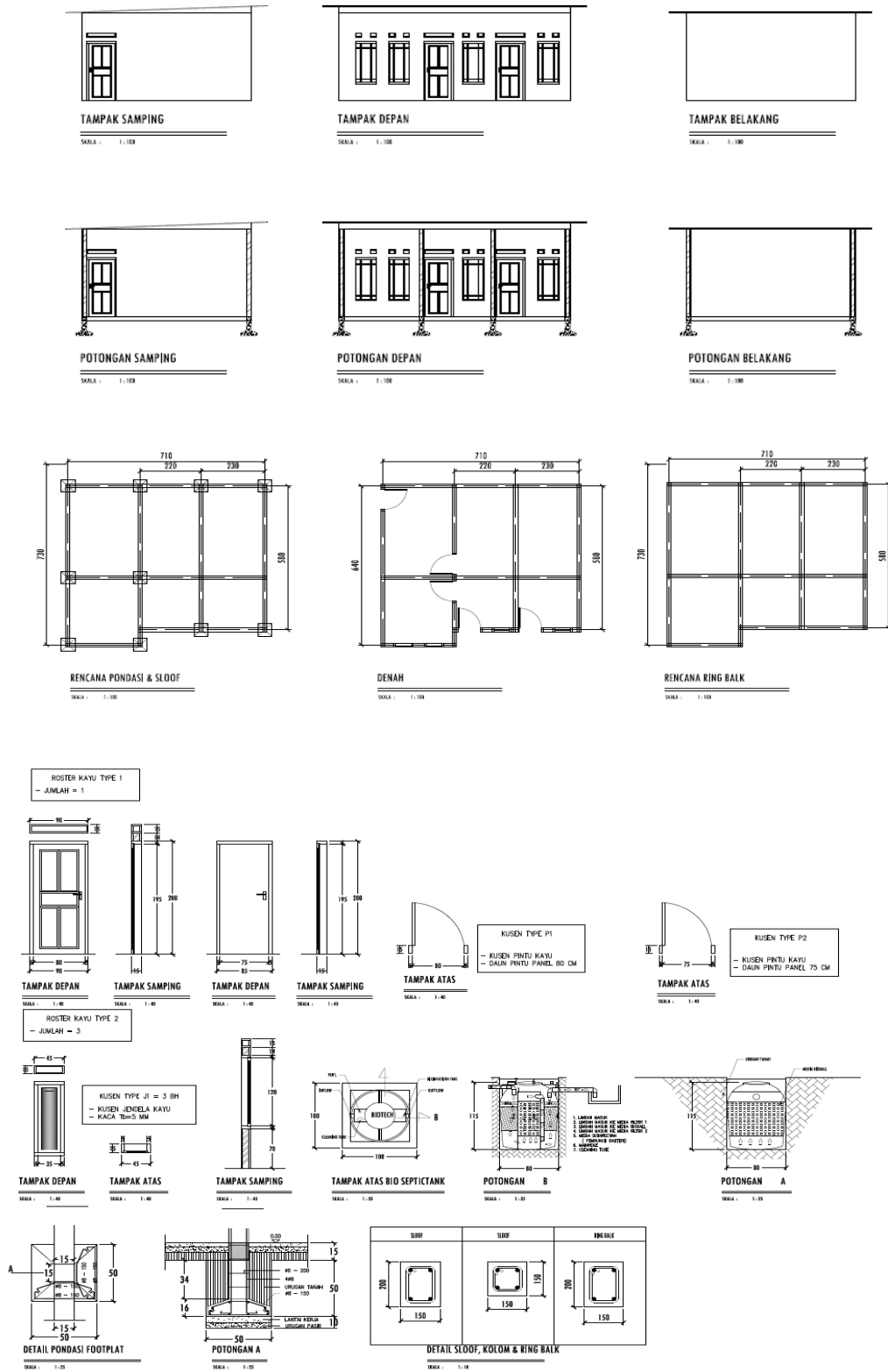


Figure 20. Figure of Pakuhaji District Location Plan

- Plan Drawings become a clear and detailed reference for field implementers to avoid mistakes that can result in work repetition, cost, and time overruns.
- Plan Drawings help control activities related to calculating the quantity/volume of materials and optimize the accuracy of costing and purchasing materials.

On the other hand, the benefits of a schedule are: Time specifications for the procurement of human resources are needed for the project. The delivering materials to the site under job specifications. The program is also an example of the beginning and end of the entire construction project.

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