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**Wilfred Ka Hing CHU/PLAND**

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副本: Wilfred Ka Hing CHU/PLAND  
主旨: 有關A/YL-LFS/535部門意見回覆  
附件: A\_YL-LFS\_535\_GPRR report.pdf  
  
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敬啟者,

有關 A/YL-LFS/535 土力工程處意見回覆可見附件。

如有任何查詢，可隨時與本人聯絡。

黃先生  
電話：

Application for Permission under Section 16 of The Town Planning Ordinance (Cap.131)  
For Temporary Public Vehicle Park (Private Cars) for a Period of 3 Years and Associated Filling of Land at Lots  
2530 (Part), 2531 (Part) and 2918 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, New Territories

Geotechnical Planning Review Report

**Geotechnical Planning**

**Review Report for**

**Application for Permission under Section 16**

**of The Town Planning Ordinance (Cap.131)**

**For Temporary Public Vehicle Park (Private**

**Cars) for a Period of 3 Years and Associated**

**Filling of Land at Lots 2530 (Part), 2531**

**(Part) and 2918 (Part) in D.D. 129, Lau Fau**

**Shan, Yuen Long, New Territories**

**January 2025**

***W.K.Poon***

Geotechnical Planning Review Report

## 1. INTRODUCTION

W.K. Poon was appointed to carry out Geotechnical Planning Review Report (GPRR) for the application for permission under Section 16 of the Town Planning Ordinance (Cap.131) for Temporary Public Vehicle Park (Private Cars) for a Period of 3 Years and Associated Filling of Land at Lots 2530 (Part), 2531 (Part) and 2918 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, New Territories.(hereafter collectively called "the Site")

This GPRR is made based on desk study and review of available documentary information and proposed development plan. The geology and site conditions are described. Potential geotechnical constraints are identified in the assessment.

## 2. THE SITE AND NEARBY MAN-MADE SLOPE FEATURES

The site is at a relatively sloping ground at Sha Kwong Wai Tsai, Lau Fau Shan, Yuen Long. Site photos taken in December 2024 are presented in Appendix A (see Photos A to D). General view and close up view of the Site is shown on Photo A, B, C and D. The location plan and the aerial view of the Site is presented in Figures 1 and 2, respectively.

According to the available SIMAR reports retrieved from Lands Department and SIS records obtained from Geotechnical Engineering Office (GEO), there are 1 no. of registered geotechnical features lies within or in the vicinity of the site (see Figure 3). The features and the responsible lot/party are tabulated below:

Feature No.	Sub-division	Owner/Department
6NW-A/CR 150	1	DD129 LOT2931 RP
	2	DD129 LOT2930 A
	3	DD129 LOT2932 RP
	4	DD129 LOT2932 A
	5	DD129 LOT2928 RP
	6	DD129 LOT2928 A
	7	Lands Department

A copy of the SIMAR reports and slope records are enclosed in Appendix B and C, respectively. The location of the above captioned features is also presented in Figure 3.

Geotechnical Planning Review Report

### 3. Desk Study

Desk study has been carried out to search and review the existing building records, previous ground investigation data and geotechnical study reports kept by the Geotechnical Information Unit (GIU) of Geotechnical Engineering Office (GEO) and the Buildings Department (BD).

#### 3.1 Geotechnical Maps

The geology of the Site is shown on the Hong Kong Geological Survey (HKGS) Map Geological Map of Hong King (Web-based Edition 2006). The local geology of the Site is presented in Figure 4 and described below.

##### 3.1.1 Solid Geology

The 1:20,000 scale geological maps indicated that regional area around the Site is underlain by eutaxitic fine ash vitric Tuff Tsing Shan Granite (Jms) of the Alluvium/Colluvium Formation in Quaternary.

##### 3.1.2 Superficial Geology

No superficial deposits has been recorded within or in the vicinity of Site.

##### 3.1.3 Structural Geology

No fault has been recorded within or in the vicinity of the Site. Two faults have been recorded on geological map as 0.5km and 5km to the northwest and southwest of the Site.

#### 3.2 Enhanced Natural Terrain Landslide Inventory

In 1995, the GEO compiled the Natural Terrain Landslide Inventory (NTLI) from an interpretation of high-altitude (8,000ft and above) aerial photographs dated from 1945 to 1994 (King, 1999). In 2007, the GEO produced an Enhanced Natural Terrain Landslide Inventory (ENTLI) using low-altitude (8,000ft and below) aerial photographs to update the NTLI.

#### Geotechnical Planning Review Report

In accordance with GEO Report No. 138 (GEO, 2016), landslides are classed as either “Relict” or “Recent” , depending on their appearance in aerial photographs.

“Relict” landslides are defined as those where the main scarp is well-defined but vegetation has re-established on the scar on the earliest set of available aerial photographs. “Recent” landslides are defined as having occurred within the timespan of the aerial photograph coverage. These are typically identified as having a light tone on the aerial photographs and are bare of vegetation.

The ENTLI has no record of any relict landslides.

### 3.3 Relevant Previous Ground Investigation Works

No previous ground investigation has been taken place within the Site and adjacent to the site.

### 3.4 DH Orders

No DH Order relevant to the man-made features has been issued within or in the vicinity of the Site.

## **4. Impacts of proposed works on existing slopes/retaining walls & Natural Hillside**

### 4.1 Feature No. 6NW-A/CR 150

According to the SIS record, the registered wall is 3m in height and 55m in length, and slope is 1.2m in Height and 8m in length with slope gradient ranging at about 30 degree to the horizontal, which is located at south- western of the site from 50m. The proposed development will not affect the geotechnical features. No further detailed of the slope and wall stability assessment shall be carried out (i.e. Geotechnical assessment report).

### 4.2 Existing features at site

There are no existing structures or features at the proposed site.

Geotechnical Planning Review Report

## 5. CONCLUSION

Based on the above discussion, it can be concluded that the proposed development is considered to be feasible from geotechnical point of view. The construction is unlikely posting particular problems to the surrounding area under careful planning, proper execution and vigilant supervision.

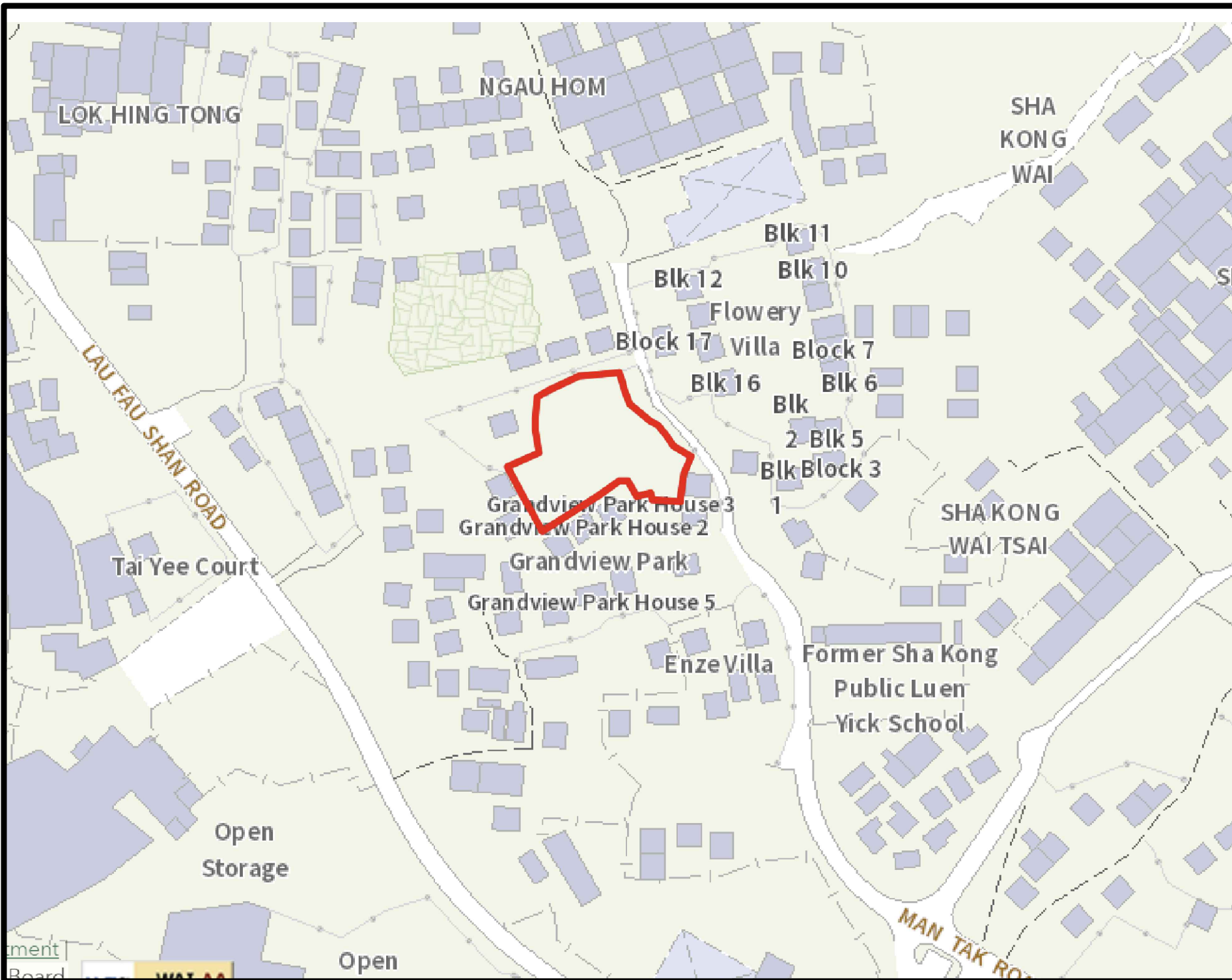
It is essential to search and review the background information of existing buildings, geotechnical features and underground services within and in the vicinity of the site. Site investigation is proposed to reveal/confirm the subsoils and the ground regime within and in the vicinity of the site as well as to determine the engineering properties of subsoils and rock. The ground investigation field works should be preceded under supervision of suitably qualified engineers and technically competent persons conforming the requirements specified in the “Code of Practice for Site Supervision 2009” published by the BD.

For safety and cost effective, the foundation design and excavation planning as well as the design of geotechnical structure should be based on geological horizons inferred from the ground investigation results, groundwater table interpreted from the piezometer/standpipe monitoring records and geotechnical parameters determined and adopted by field and laboratory testing.

A comprehensive precautionary monitoring program including settlement markers, tiling, vibration check points as well as groundwater observation wells shall be implemented to ensure demolition of foundation of existing buildings and substructure construction being carried out safety and soundly.

A natural terrain hazard study will be carried out in the next stage of the project to investigate any potential natural terrain hazard will pose to the proposed development and subsequence mitigation measures to mitigate the hazard if found necessary.

## **FIGURES**



— Site Boundary

Company:  


Project:  
 Lots 2530 (Part), 2531 (Part) and 2918 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, New Territories

Title:  
 Site Location Plan

Dwg No:	File:
Fig.1	

Date:  
 29 Dec 2024





Company:

Project:  
 Lots 2530 (Part), 2531 (Part) and 2918 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, New Territories

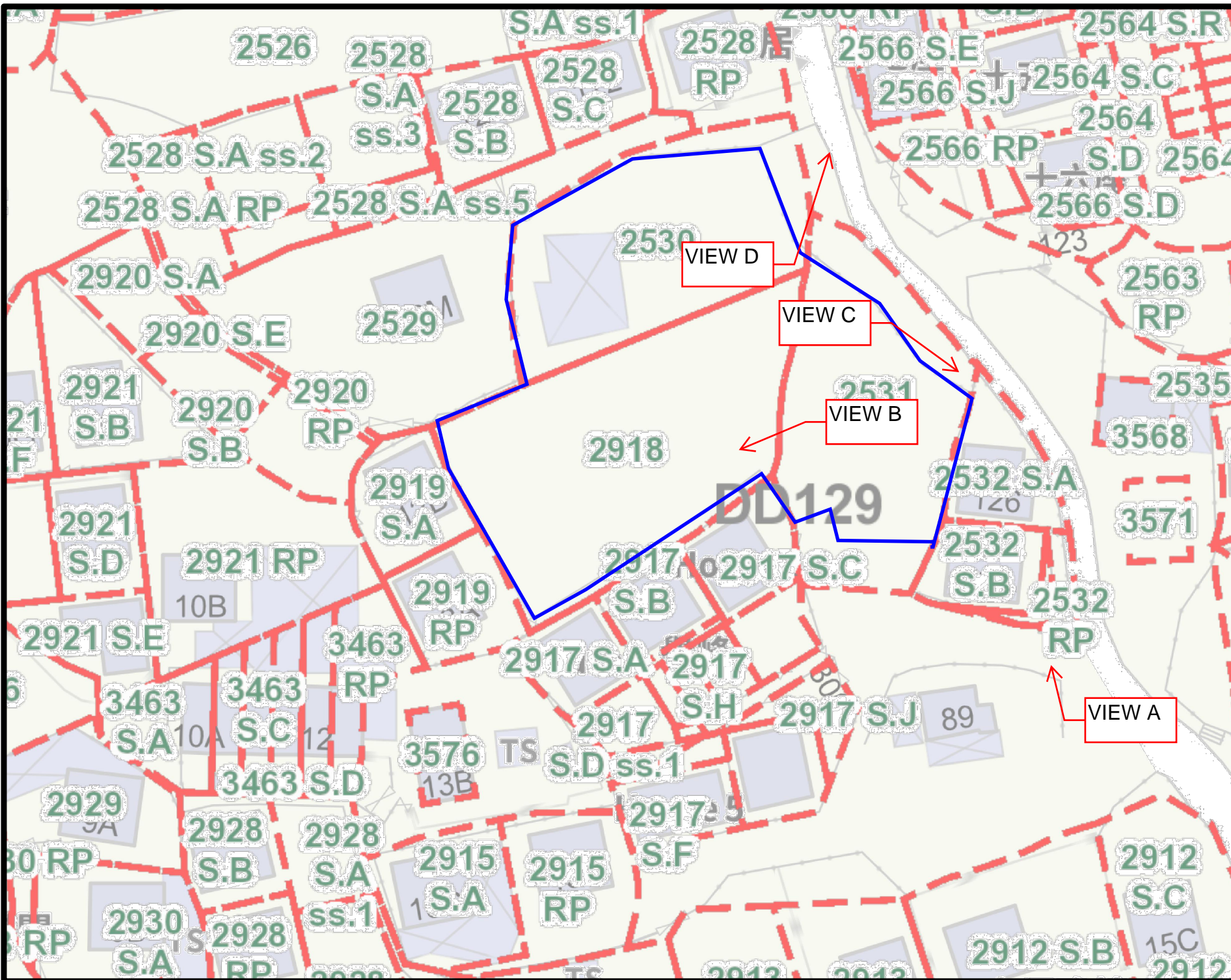
Title:  
 Aerial Photo

Dwg No:  
 Fig.2

Date:  
 29 Dec 2024

# **Appendix A**

Photographs



<p>— Site Boundary</p> <p>— Lot Boundary</p>	
<p>Company:</p>	
<p>Project:</p> <p>Lots 2530 (Part), 2531 (Part) and 2918 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, New Territories</p>	
<p>Title:</p> <p>Lot Index and eye location Plan</p>	
<p>Dwg No:</p>	<p>File:</p>
<p>Fig.3</p>	
<p>Date:</p> <p>29 Dec 2024</p>	



VIEW A Entrance of proposed site



VIEW B General View of proposed site



VIEW C Adjacent Area of the site



VIEW D Adjacent Area of the site

## **Appendix B**

SIMAR Record

# Slope Maintenance Responsibility Report

(6NW-A/CR150)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	<b>6NW-A/CR150</b>	<b>Sub-Division</b>	5	
	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129		
	<b>Responsible Lot/Party</b>	DD129 LOT2928 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Slope information being reviewed.		

- End of Report -

### Notes:

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- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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## Location Plan



## Legend

- Slope Area(s)
- - - - Search Location
- Slope(s) Maintained by Government
- Slope(s) Maintained by Private Party/Parties
- Slope(s) Maintained by Government and Private Party/Parties



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# Slope Maintenance Responsibility Report

(6NW-A/CR150)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	<b>6NW-A/CR150</b>	<b>Sub-Division</b>	1	
	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129		
	<b>Responsible Lot/Party</b>	DD129 LOT2931 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Slope information being reviewed.		

- End of Report -

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# Slope Maintenance Responsibility Report

(6NW-A/CR150)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>6NW-A/CR150</b>	<b>Sub-Division</b>	3	
	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129		
	<b>Responsible Lot/Party</b>	DD129 LOT2932 RP	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Slope information being reviewed.		

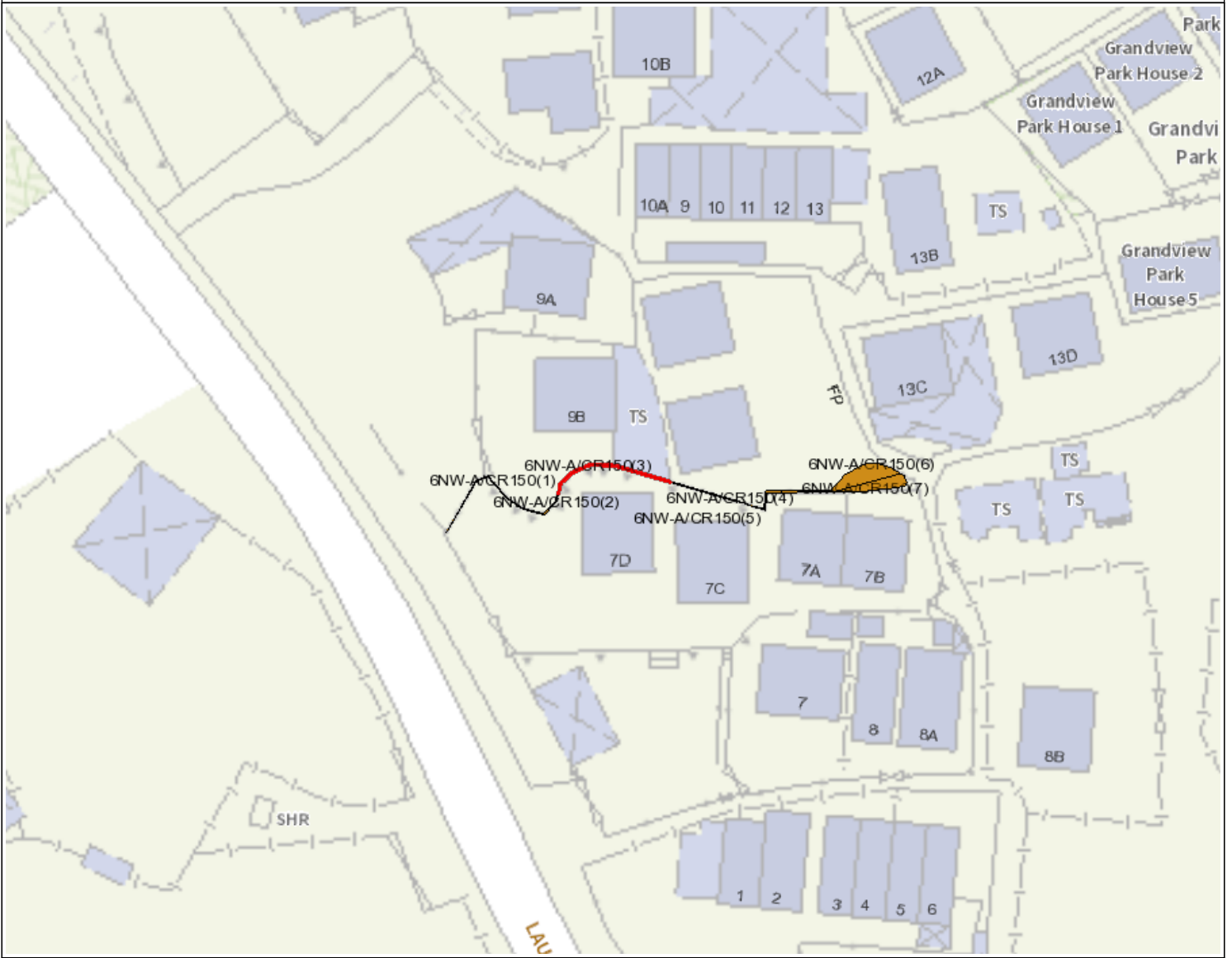
- End of Report -

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**Location Plan**



**Legend**

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# Slope Maintenance Responsibility Report

(6NW-A/CR150)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	<b>6NW-A/CR150</b>	<b>Sub-Division</b>	7	
	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129		
	<b>Responsible Lot/Party</b>	Lands Department	<b>Maintenance Agent</b>	Lands Department
	<b>Remarks</b>	1. Slope information being reviewed. 2. For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		

- End of Report -

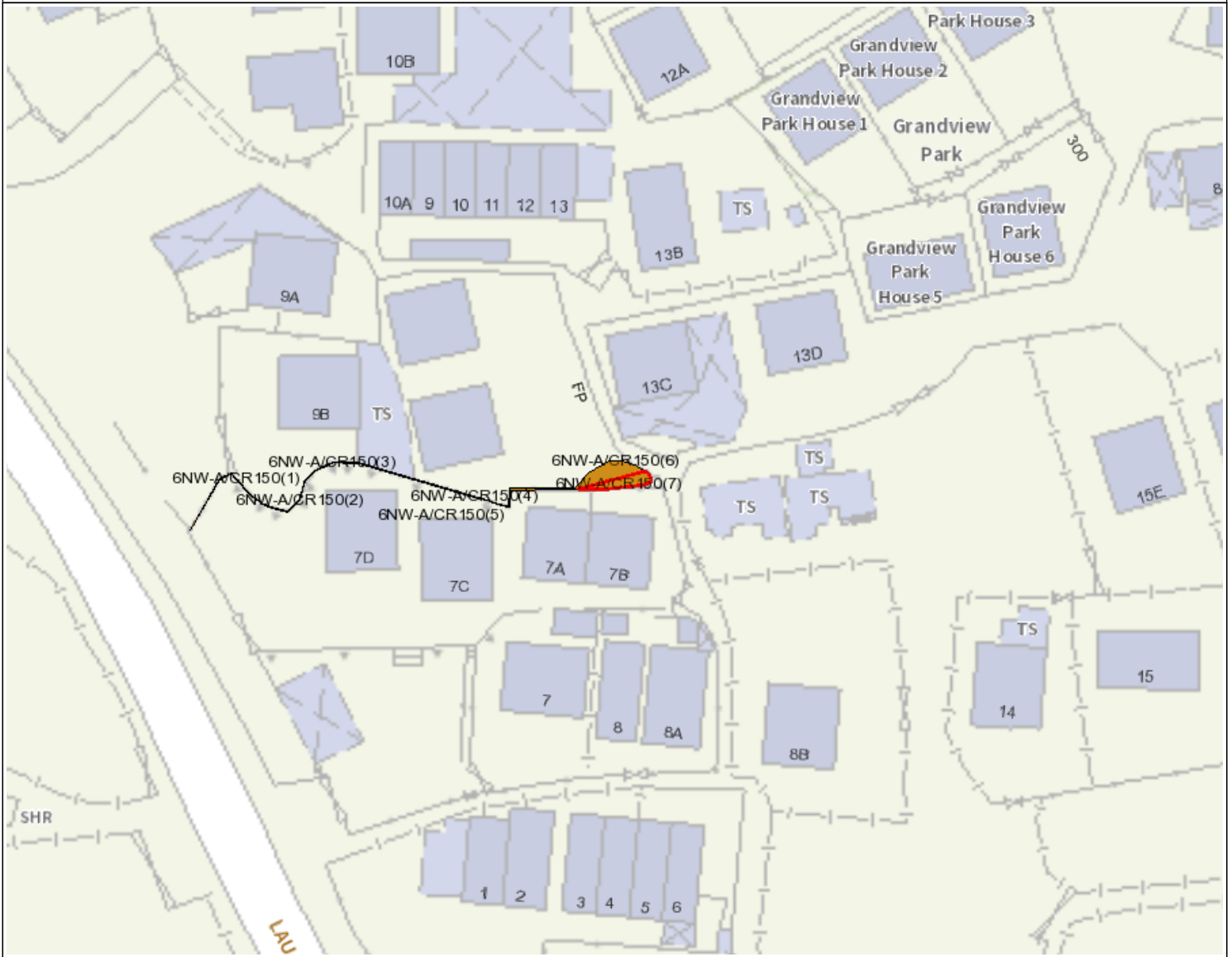
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Search Criteria: 6NW-A/CR150

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# Slope Maintenance Responsibility Report

(6NW-A/CR150)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	<b>6NW-A/CR150</b>	<b>Sub-Division</b>	6	
	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129		
	<b>Responsible Lot/Party</b>	DD129 LOT2928 A	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Slope information being reviewed.		

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(6NW-A/CR150)



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LANDS DEPARTMENT

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	<b>Location</b>	WITHIN VARIOUS SECTIONS OF LOTS2930, 2931, 2932 AND 2928 IN DD129	
	<b>Responsible Lot/Party</b>	DD129 LOT2930 A	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Slope information being reviewed.	

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# Slope Maintenance Responsibility Report

(6NW-A/CR150)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

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	<b>Remarks</b>	Slope information being reviewed.		

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## **Appendix C**

Slope Records Retrieved from CEDD

## BASIC INFORMATION

Location: Sha Kong Wai Tsai, Yuen Long.  
Date of Formation: post-1977  
Date of Construction/ Modification: N/A  
Approximate Coordinates: Easting : 816838 Northing : 835944

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with low traffic density  
Distance of Facility from Crest (m): 0  
Facility at Toe: Residential building  
Distance of Facility from Toe (m): 1.5  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

(1) Max. Height (m): 1.2 Length (m): 8 Average Angle (deg): 30

## WALL PART

(1) Max. Height (m): 3 Length (m): 55 Face Angle (deg): 90

## MAINTENANCE RESPONSIBILITY

Maintenance Type: Mixed Party: DD129 LOT2931 RP Agent: N/A  
Maintenance Type: Mixed Party: DD129 LOT2930 A Agent: N/A  
Maintenance Type: Mixed Party: DD129 LOT2932 RP Agent: N/A  
Maintenance Type: Mixed Party: DD129 LOT2932 A Agent: N/A  
Maintenance Type: Mixed Party: DD129 LOT2928 RP Agent: N/A  
Maintenance Type: Mixed Party: DD129 LOT2928 A Agent: N/A  
Maintenance Type: Mixed Party: Lands D Agent: Lands D

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 11-10-2018  
Data Source: EI(Lands D)  
Slope Part Drainage: (1) Position: Crest Size(mm): 225  
(2) Position: Toe Size(mm): 100  
(3) Position: Toe Size(mm): 300  
Wall Part Drainage: N/A

## SLOPE PART



**Slope Part (1)**

Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 100 Shotcrete: 0 Other Cover: 0  
Material Description: Material type: Soil Geology: N/A  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): N/A Spacing (m): N/A

**WALL PART**

**Wall Part (1)**

Type of Wall: Wall Material: Concrete Wall Location: Wall at toe  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): N/A Spacing (m): N/A

**SERVICES**

N/A

**PHOTO**

