

**Geotechnical Planning Review Report  
for  
The Proposed Development at  
Lot 405 in D.D. 399,  
No. 313 Castle Peak Road,  
Ting Kau, N.T.**



.....  
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**November 2025**

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## 1. INTRODUCTION

JMK Consulting Engineers Limited was appointed to carry out a Geotechnical Planning Review for the premises at Lot No. 405 in D.D. 399, No. 313 Castle Peak Road at Ting Kau.

This Geotechnical Planning Review Report (GPPR) is made based on desk study and review of available documentary information and proposed development plan (see Appendix A). The geology and site conditions are described. Potential geotechnical constraints are identified in the assessment.

## 2. THE SITE AND THE FEATURES

The site is located at No. 313 Castle Peak Road, Ting Kau. Site photos taken in October 2025 are presented in Appendix B (see Photos A to I). The site location plan and the aerial view of the proposed development site are 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 7 nos. of registered geotechnical features lies within or in the vicinity of the site (see Figure 3). The features and the responsible lots/parties are tabulated below:

Feature No.	Sub-division No.	Responsible Lots/Parties
6SE-D/FR57	Not Applicable	Lands Department
	Not Applicable	STT1139TW
6SE-D/R158	1	STT 1139TW
	1	Lands Department
	2	DD399 LOT 405
	3	Lands Department
6SE-D/R114	1	STT1139TW
	1	Lands Department
	2	Lands Department
6SE-D/R113	1	DD399 Lot404
6SE-D/R115	1	DD399 LOT447
	2	DD399 LOT401
6SE-D/R215	1	STT1206TW
6SE-D/FR203	1	Highways Department

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



### 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). All the information in the desk study were obtained from the available data retrieved from the Civil Engineering and Development Department (CEDD) Geotechnical Information Infrastructure System (Ginfo) website and Access to Information from Lands Department (LandsD).

#### 3.1 Geological Maps

The geology of the Site is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 6 (Yuen Long), 1:20,000-scale, Edition II, HGM20 series. 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 lapilli lithic-bearing coarse ash crystal Tuff (Jty\_cat) of the Yim Tin Tsai Formation.

##### 3.1.2 Superficial Geology

Pleistocene to Holocene colluvium (Qd), Holocene beach deposits (Qhb) and marine sand (Qhs) of the Hang Hau Formation are recorded at about 30m to the southwest of the Site.

##### 3.1.3 Structural Geology

No fault or photolineament has been recorded within or in the vicinity 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.

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.

No ENTLI has been recorded within and in the vicinity of the Site.

### 3.3 Historical Landslide Catchment (HLC) Inventory

Historical Landslide Catchments (HLCs) have been defined by GEO based on the results of the ENTLI. Thus, no HLC has been recorded within and in the vicinity of the Site.

### 3.4 Reported Landslide Incidents

According to the GEO landslide incident records database, no landslide incident has been recorded within and in the vicinity of the Site.

### 3.5 Relevant Previous Ground Investigation Works

No previous ground investigation has been taken place within the Site. The previous ground investigation report adjacent to the Site has been retrieved and summarized below:

GIU Report No.	GI Station Nos:	Report Title	GI Stations related to Feature No.	Remarks
37207	DH3	Ting Kau and Sham Tseng Village Sewerage Schemes Ground Investigation	-	-
412272	BH1, TP1, TP2, TP3, TP4, IC1, IC2, HC1, HC2	Feature No. 6SE-D/FR203, Rose Villa, 309 Castle Peak Road, Ting Kau, N.T.	6SE-D/FR203	-
R56707	-	Agreement No. CE 31/2006 (GE) Feature Nos. 6SE-D/FR57 & 6SE-D/R158 No. 311-313, Castle Peak Road, Ting Kau Upgrading Works (Conventional Design Approach) Design Report (Final)	6SE-D/FR57 & 6SE-D/R158	GI logs or GI locations are not available on Ginfo

The details of previous ground investigation logs are presented in Appendix E and the locations of the previous GI is shown in Figure 5.

### 3.6 DH Orders

According to Ginfo, no DH Orders have been issued to the features within and in the vicinity of the Site.

### 3.7 Stage 2 Studies

The Stage 2 Studies carried out for the features within and in the vicinity of the Site are summarized below:

Stage Report No.	Feature No.	Completed in	Report Recommendation
S2R18/2008	6SE-D/FR57	Sep 2008	No action required
S2R18/2008	6SE-D/R158	September 2008	No action required
S2R261/2000	6SE-D/R113	November 2000	Advisory Letter
S2R209/2005	6SE-D/R115	March 2006	No action required for Sub- division No. 1; DH order for Sub-division No. 2;
S2R024/2022	6SE-D/R215	February 2022	Advisory Letter

### 3.8 Stage 3 Studies

The Stage 3 Studies carried out for the features in the vicinity of the Site are summarized below:

Stage Report No.	Feature No.	Completed in	Report Recommendation
S3R103/2014	6SE-D/R215	November 2014	Construction of mass concrete wall, installation of soil nails and construction of pile wall (Works suspended)

## 4. IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES/RETAINING WALLS

### 4.1 Feature No. 6SE-D/FR57

Feature no. 6SE-D/FR57 is located at northern end of the Site adjoining to the Site boundary at house no. 313 Castle Peak Road. According to the SIS record, the feature is about 13m long and 3.3m high with slope gradient of 45° to the horizontal, the wall portion is about 13m long and 4.3m high with slope gradient of 75° to the horizontal. Local stability check of the feature was carried out in Stage 2 Study Report (S2R18/2008) prepared by Maunsell Geotechnical Services Limited in September 2008. The study concluded that no action is required for this feature.

The feature was modified/updated to current standard. The upgrading works completed on 2010 and subsequently checked by GEO (Checking Certificate No.GEO/MW 007/2013, Appendix F refers). The as-built drawings are attached in Appendix F. The proposed new works will not modify the existing feature.

### 4.2 Feature No. 6SE-D/R158

Feature no. 6SE-D/R158 is located at northern end of the Site adjoining to the Site boundary at house no. 313 Castle Peak Road. According to the SIS record, the wall is about 18.7m long and 7m high with slope gradient about 90° to the horizontal. Local stability check of the feature was carried out in Stage 2 Study Report (S2R18/2008) prepared by Maunsell Geotechnical Services Limited in May 2008. The study concluded that no action is required for this feature.

The feature was modified/updated to current standard. The upgrading works completed on 2010 and subsequently checked by GEO (Checking Certificate No.GEO/MW 008/2013, Appendix F refers). The as-built drawings are attached in Appendix F. The proposed new works will not modify the existing feature.

### 4.3 Feature No. 6SE-D/R114

Feature no. 6SE-D/R114 is located at about 2m to the southern end of the Site at house no. 313 Castle Peak Road. According to the SIS record, the wall is about 43m long and 4m high with slope gradient about 87° to the horizontal. The modified/upgrade works of the feature are in progress and will be completed up to current standard. The proposed new works will not modify the existing feature.

### 4.4 Feature No. 6SE-D/R113

Feature no. 6SE-D/R113 is located at about 2m to the west of the Site at house no. 315 Castle Peak Road. According to the SIS record, the wall is about 42m long and 4m high with slope gradient about 80° to the horizontal.

Local stability check of the feature was carried out in Stage 2 Study Report (S2R261/2000) prepared by C M Wong & Associates Limited in November 2000. The study recommended issue of type 3 advisory letter to the owners of Lot DD399 Lot 404. The proposed new works will not modify the existing feature.

#### **4.5 Feature No. 6SE-D/R115**

Feature no. 6SE-D/R115 is located at about 2m to the southeast of the Site at house no. 311 Castle Peak Road. According to the SIS record, the wall is about 19m long and 4.1m high with slope gradient about 90° to the horizontal.

Local stability check of the feature was carried out in Stage 2 Study Report (S2R209/2005) prepared by Scott Wilson Limited in March 2006. The study concluded that no action is required for sub-division no. 1, while a DH order is recommended for the sub-division no. 2 of this feature. Slope remedial works for sub-division no. 2 were completed and up to current standard in January 2012. The proposed new works will not modify the existing feature.

#### **4.6 Feature No. 6SE-D/R215**

Feature no. 6SE-D/R215 is located at about 3m to the northwest of the Site at house no. 315 Castle Peak Road. According to the SIS record, the wall is about 30m long and 8.2m high with slope gradient about 90° to the horizontal.

Local stability check of the feature was carried out in Stage 3 Study Report (S3R103/2014) prepared by Fugro (Hong Kong) Limited in November 2014. It was recommended that construction of mass concrete wall, installation of soil nails and construction of pile wall for the upgrading works, however, the works were suspended as the MR was changed from HyD to private. Local stability check of the feature was then carried out in Stage 2 Study Report (S2R024/2022) prepared by C M Wong & Associates Limited in February 2022. The study recommended issue of an advisory letter to the tenant. The proposed new works will not modify the existing feature.

#### **4.7 Feature No. 6SE-D/FR203**

Feature no. 6SE-D/FR 203 is located at about 2m to the east of the Site at house no. 309 Castle Peak Road. According to the SIS record, the feature is about 23m long and 1.8m high with slope gradient of 35° to the horizontal, the wall portion is about 23m long and 4m high with slope gradient of 78° to the horizontal. Feature was modified/upgraded to current standard with Checking Certificate No.GEO/MW 008/2007. The proposed new works will not modify the existing feature.

#### **4.8 Impacts from the Proposed Works to the Registered Slope Features**

As the aforementioned features have stood from some time without evidence of major distress or instability, it is expected that these features will continue under the present condition. Moreover, there is no intention to modify or reconstruct the registered slope features during the proposed foundation (raft footing) or construction works. However, in view of these features are close (within 10m) to the Site boundary, the stabilities of these features have to be checked with respect to the proposed development and based on the subsurface conditions, ground water conditions and shear strength parameters of soil/rock obtained from a site specific ground investigation. The design and construction of the proposed development shall be comprehensively planned and designed to ensure no adverse effects on all adjacent features. If found necessary, appropriate improvement/upgrading works, including slope re-profiling, installation of soil nails, and provision of raking drains will be carried out to bring up the sub-standard portion of the feature to meet the current geotechnical standard.

## 5. CONCLUSION

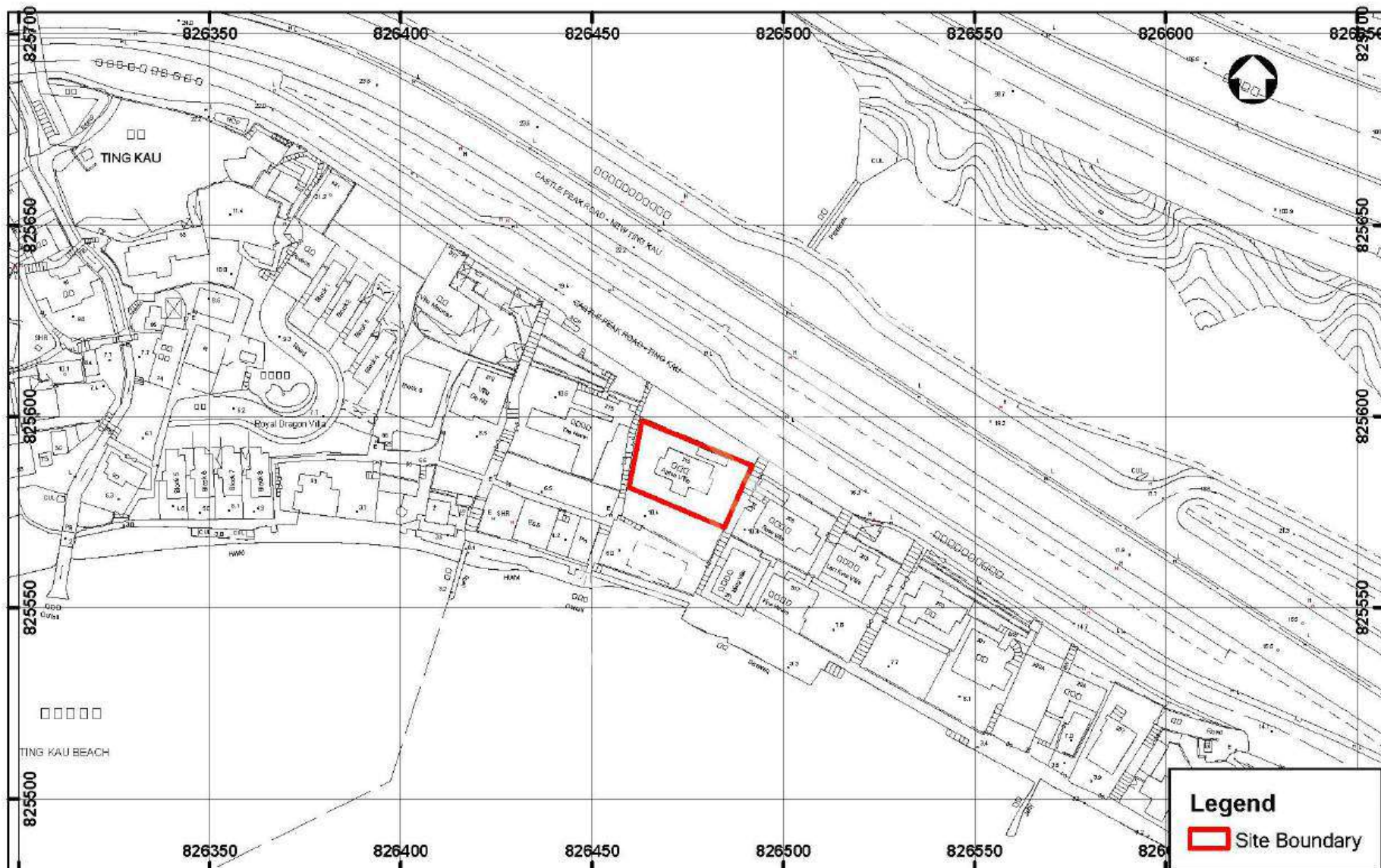
Based on the above discussion, it can be concluded that the proposed development is considered to be feasible from geotechnical point of view. The construction would be straight forward unlikely posting particular problems to the surrounding area under careful planning, proper execution and vigilant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

It is essential to search and review the background information of existing building, 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 retaining wall stability assessment and excavation planning 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, tilting, 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.

## FIGURES



PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

TITLE: Location Plan of the Proposed Site

SCALE:  
1 : 1500

JMK Consulting Engineers Ltd.

FIGURE NO :  
FIGURE 1





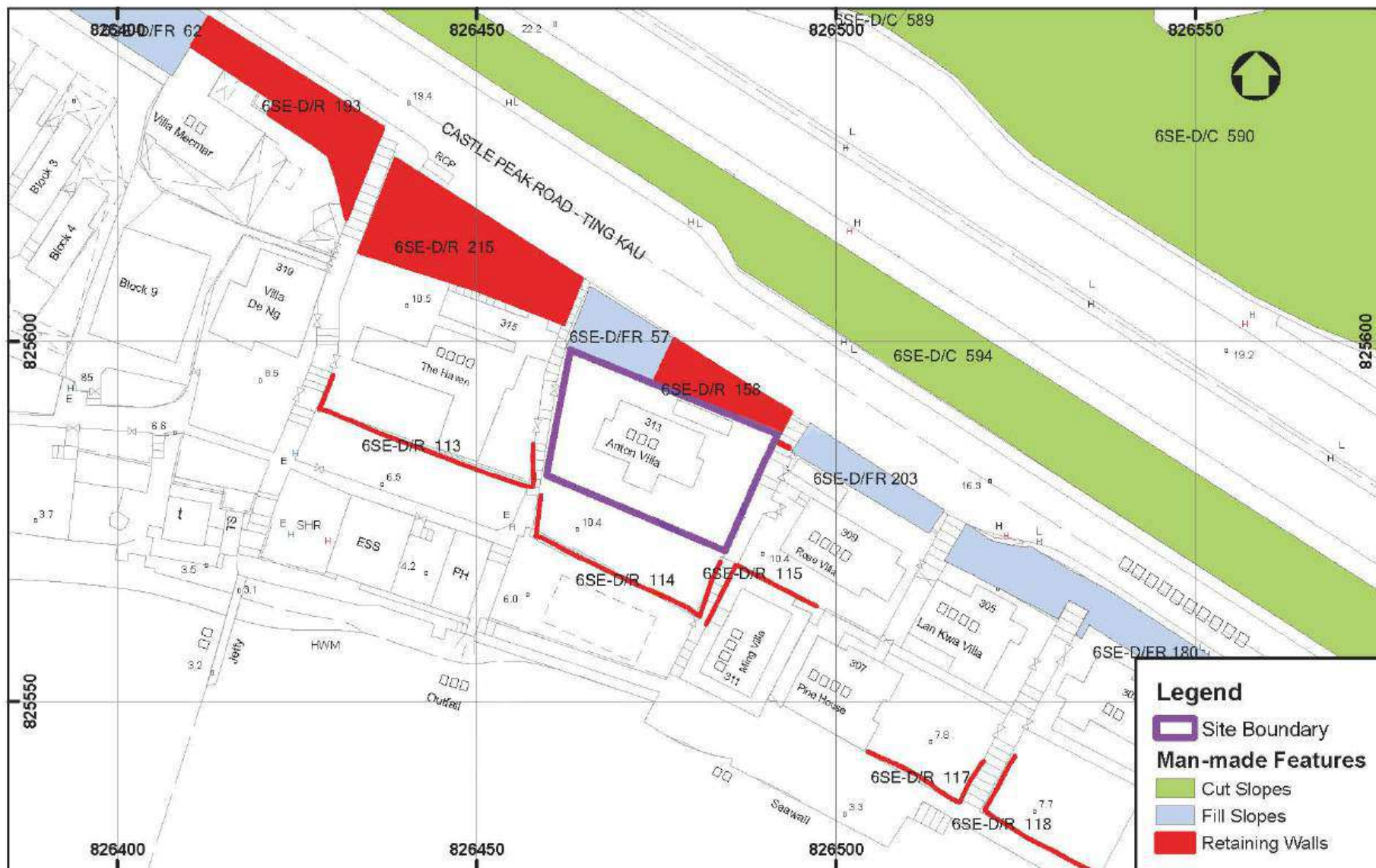
PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

TITLE: Aerial View of the Proposed Development Site

SCALE:  
1 : 1500

JMK Consulting Engineers Ltd.

FIGURE NO :  
FIGURE 2



PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

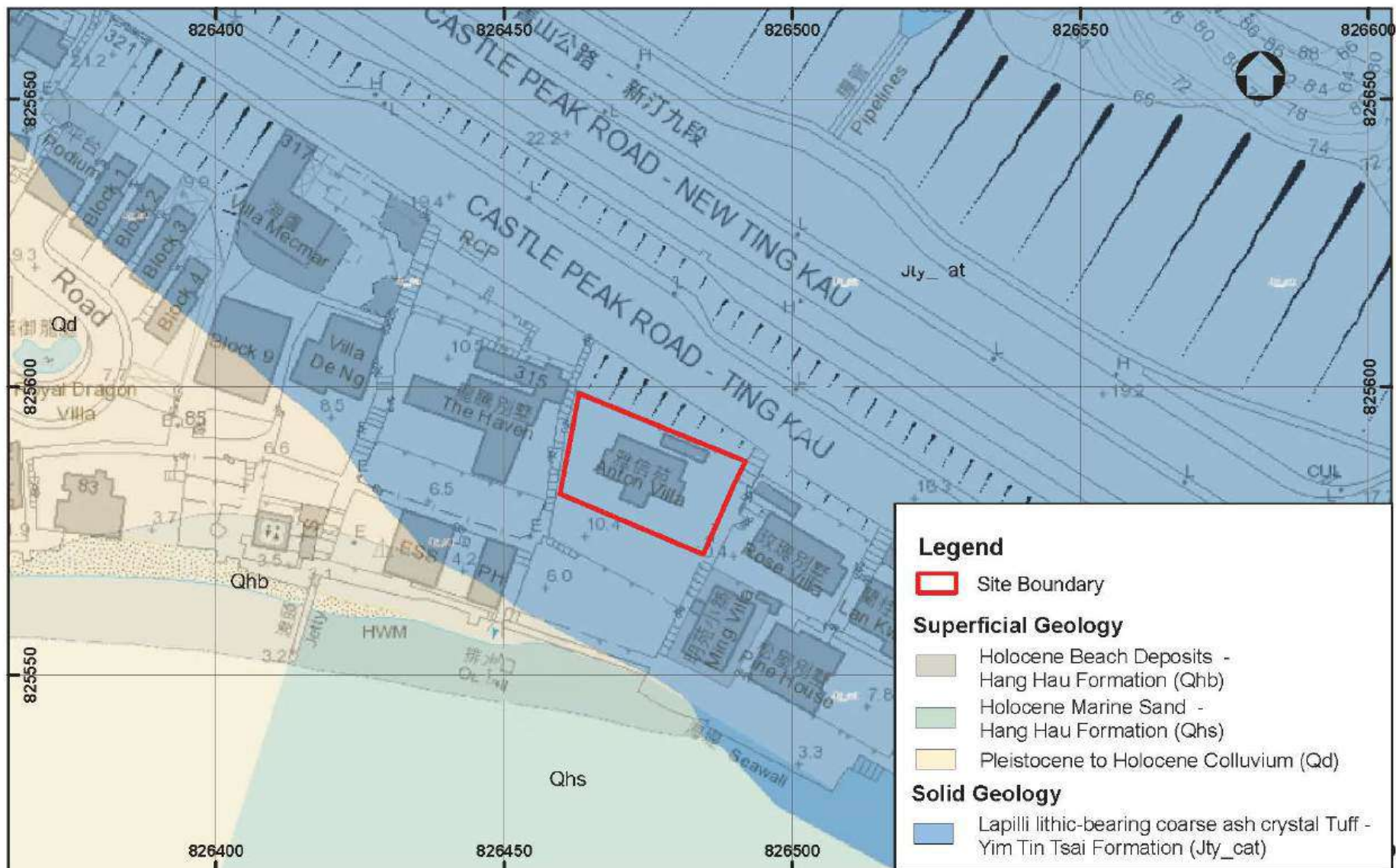
TITLE: Registered Man-made Features

SCALE:  
1 : 800

JMK Consulting Engineers Ltd.

FIGURE NO :  
FIGURE 3





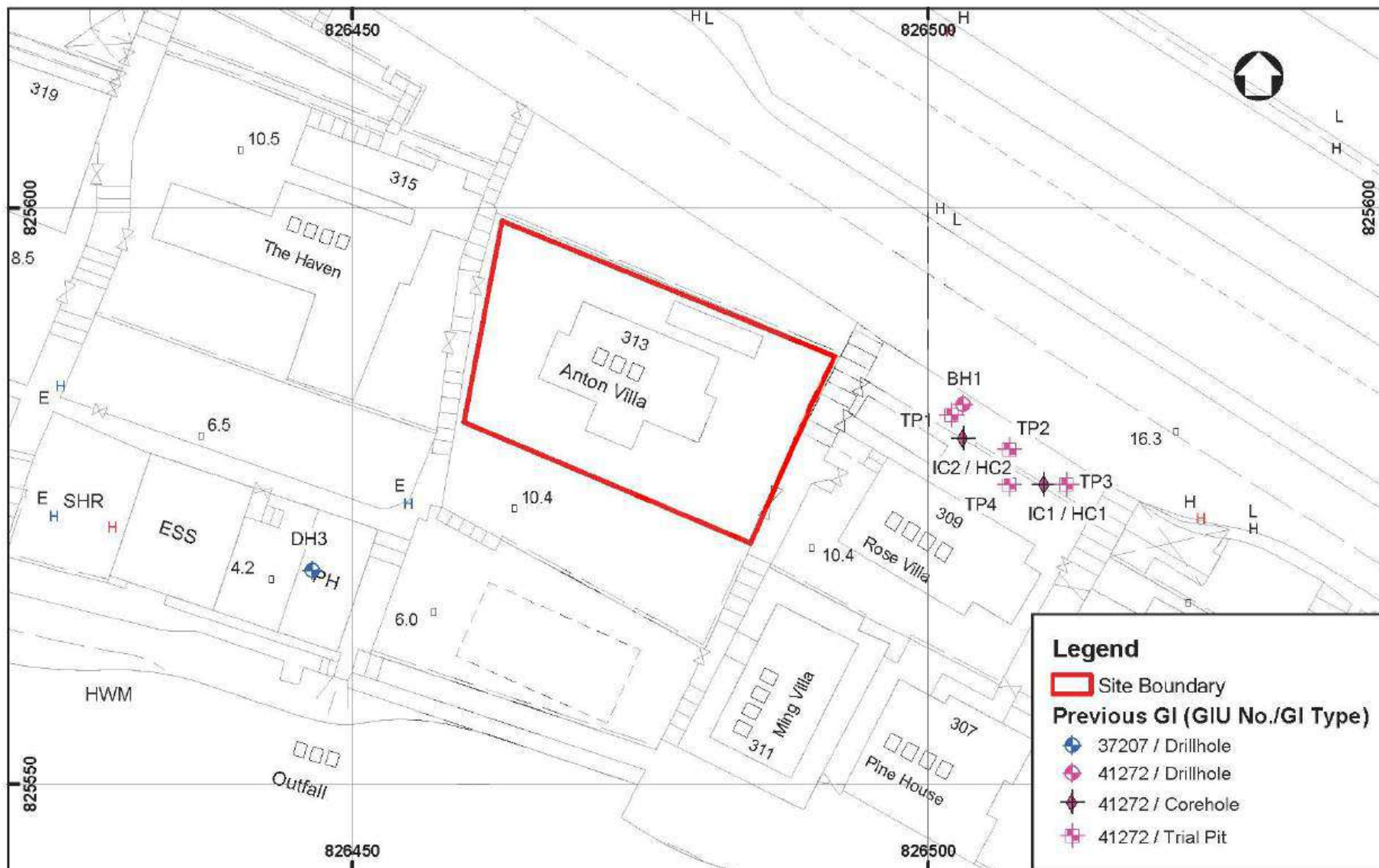
PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

TITLE: Geological Map

SCALE:  
1 : 1000

JMK Consulting Engineers Ltd.

FIGURE NO :  
FIGURE 4



PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

TITLE: Location Plan of the Previous GI

SCALE:  
1 : 500

JMK Consulting Engineers Ltd.

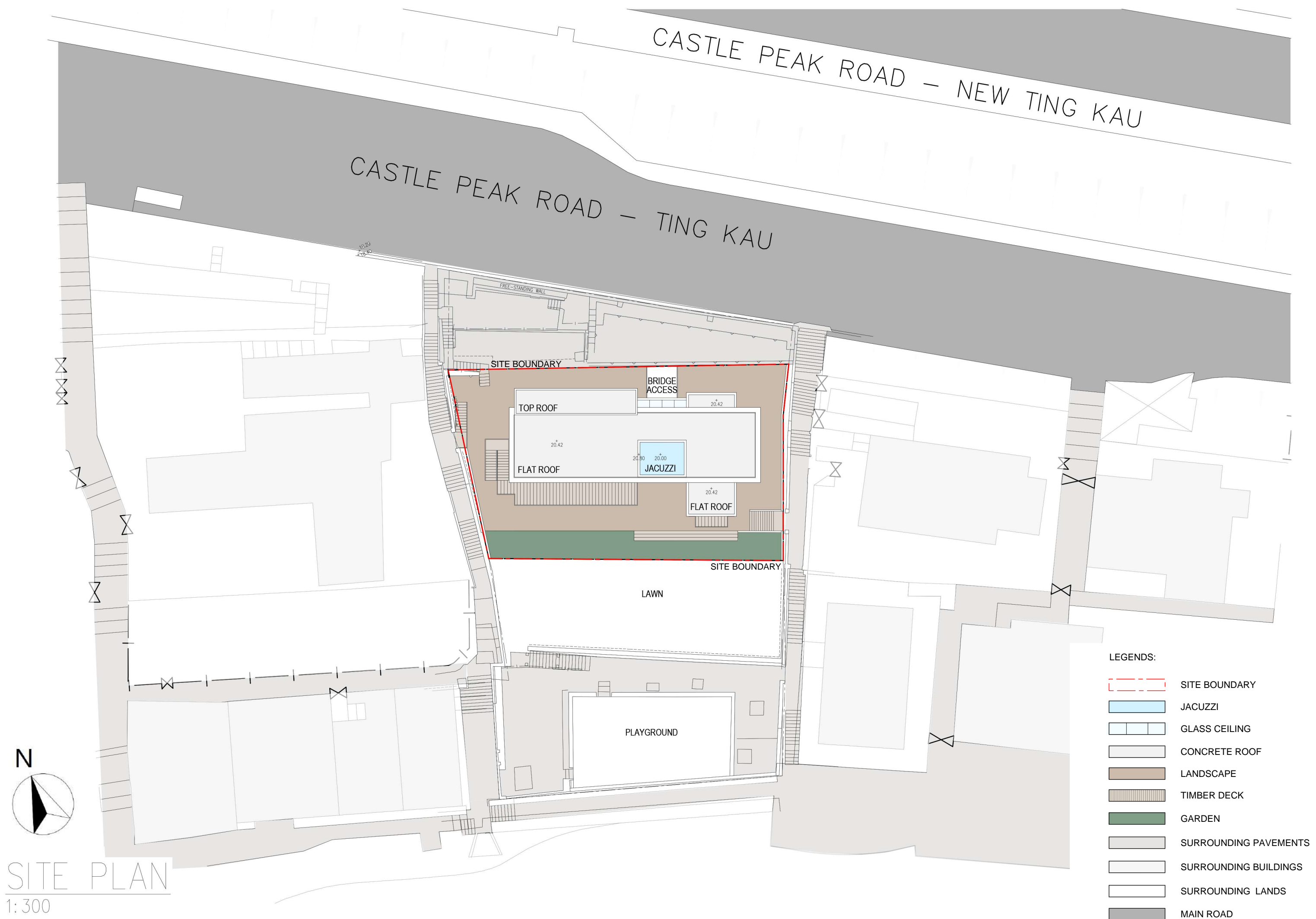
FIGURE NO :  
FIGURE 5

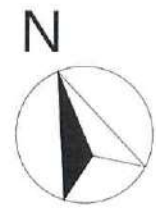
## **APPENDIX**

# **Appendix A**

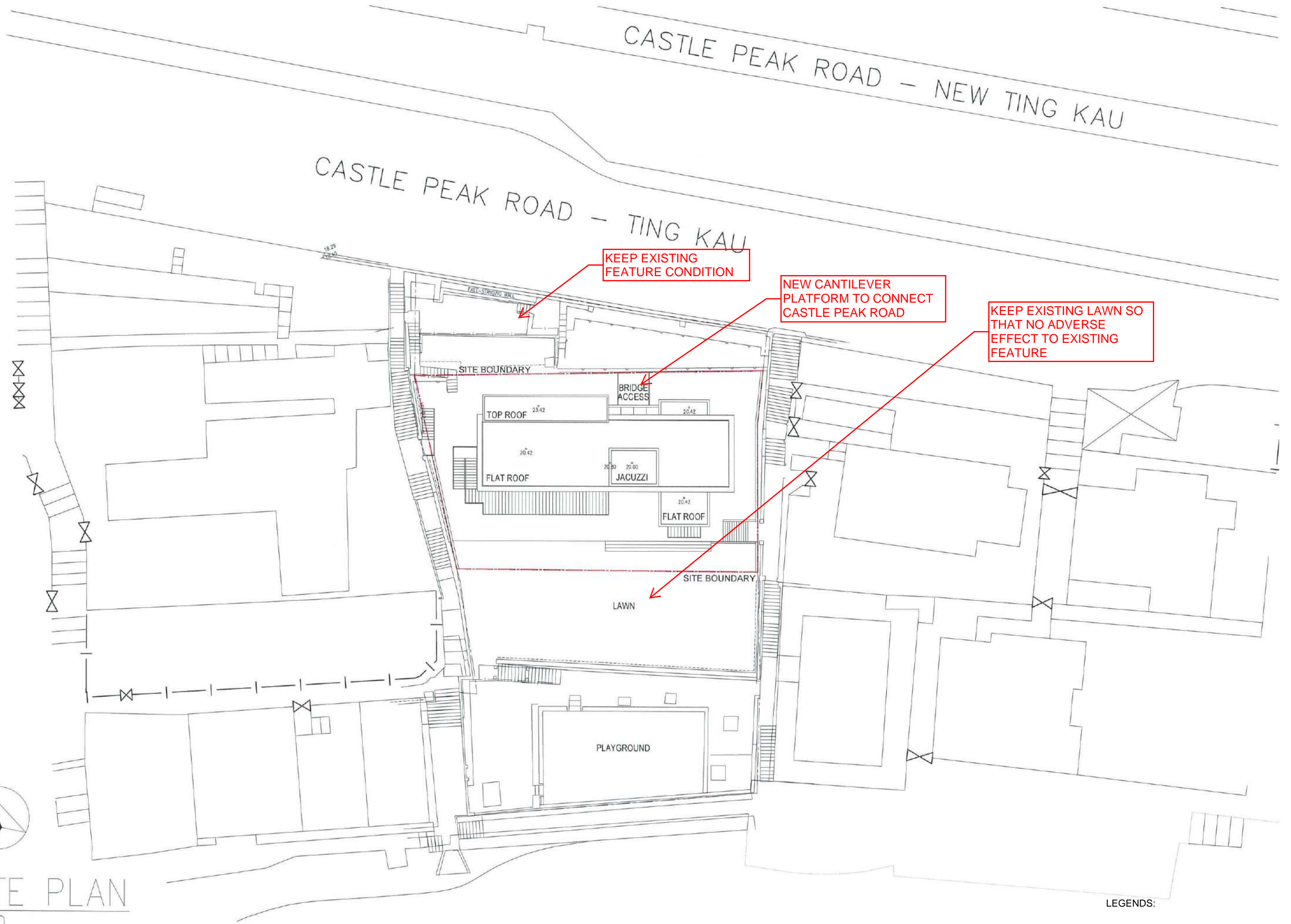
Proposed Development Plan







SITE PLAN  
1:300



LEGENDS:

--- SITE BOUNDARY



KEEP EXISTING LEVEL  
FOR MAINTENANCE  
ACCESS OF FEATURE  
6SE-D/FR57

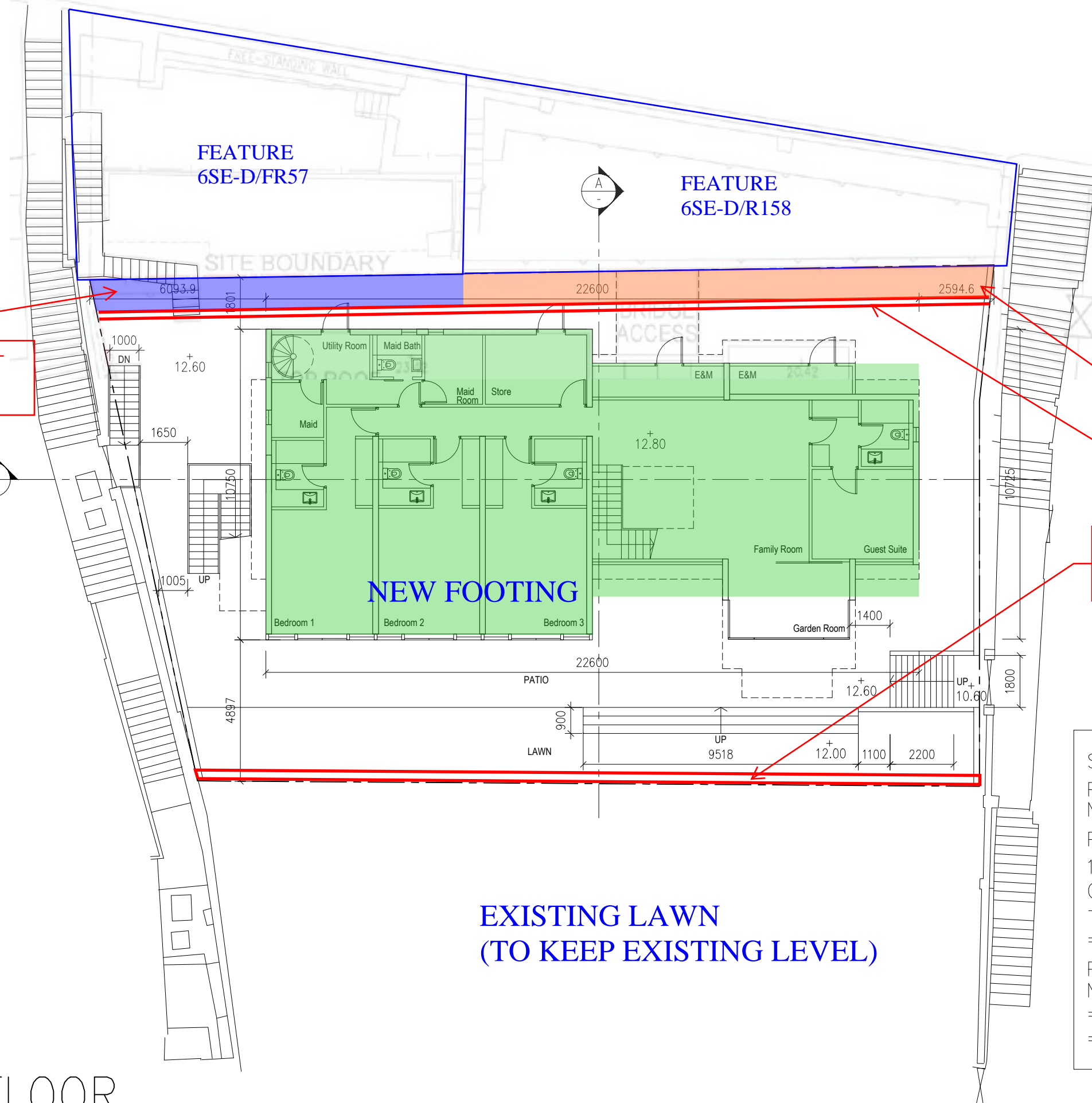
KEEP EXISTING LEVEL  
FOR MAINTENANCE  
ACCESS OF FEATURE  
6SE-D/R158

NEW RETAINING WALL  
FOR LEVEL DIFFERENCE

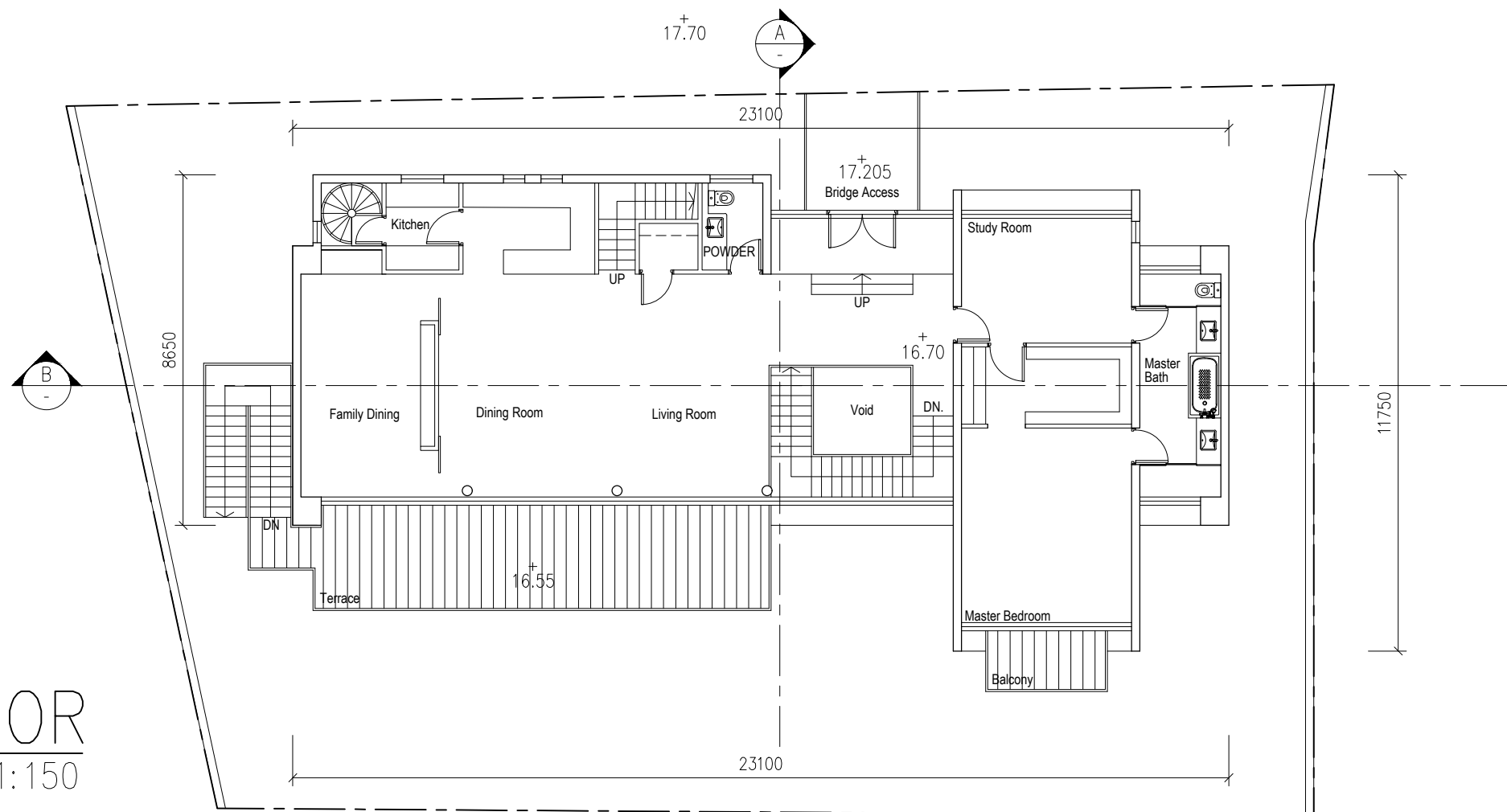
NEW RETAINING WALL  
FOR RAISING UP THE  
LAWN WITHIN SITE  
BOUNDARY

SITE AREA: 512.917 s.m.  
PROPOSED DOMESTIC GFA:  
NOT EXCEEDING 384.675 s.m.  
P.R. NOT EXCEEDING 0.75  
1/F: 185.02 s.m.  
G/F: 199.45 s.m.  
Total=384.470/512.917 s.m.  
= 0.7496 < 0.75 (P.R.)  
PROPOSED SITE COVERAGE:  
NOT EXCEEDING 40%  
= 199.45 / 512.917 s.m.  
= 38.89% < 40%

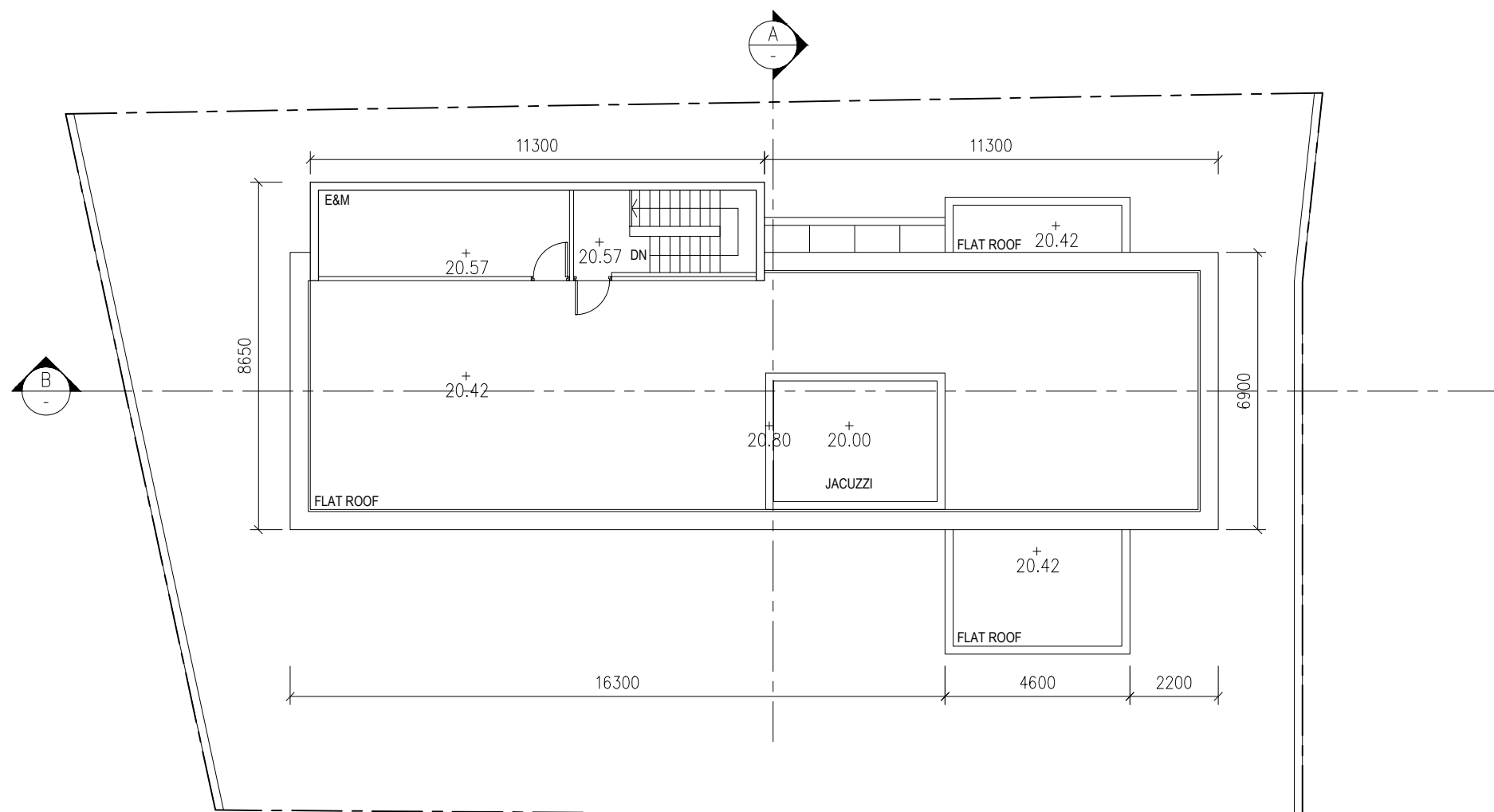
GROUND FLOOR  
1:150

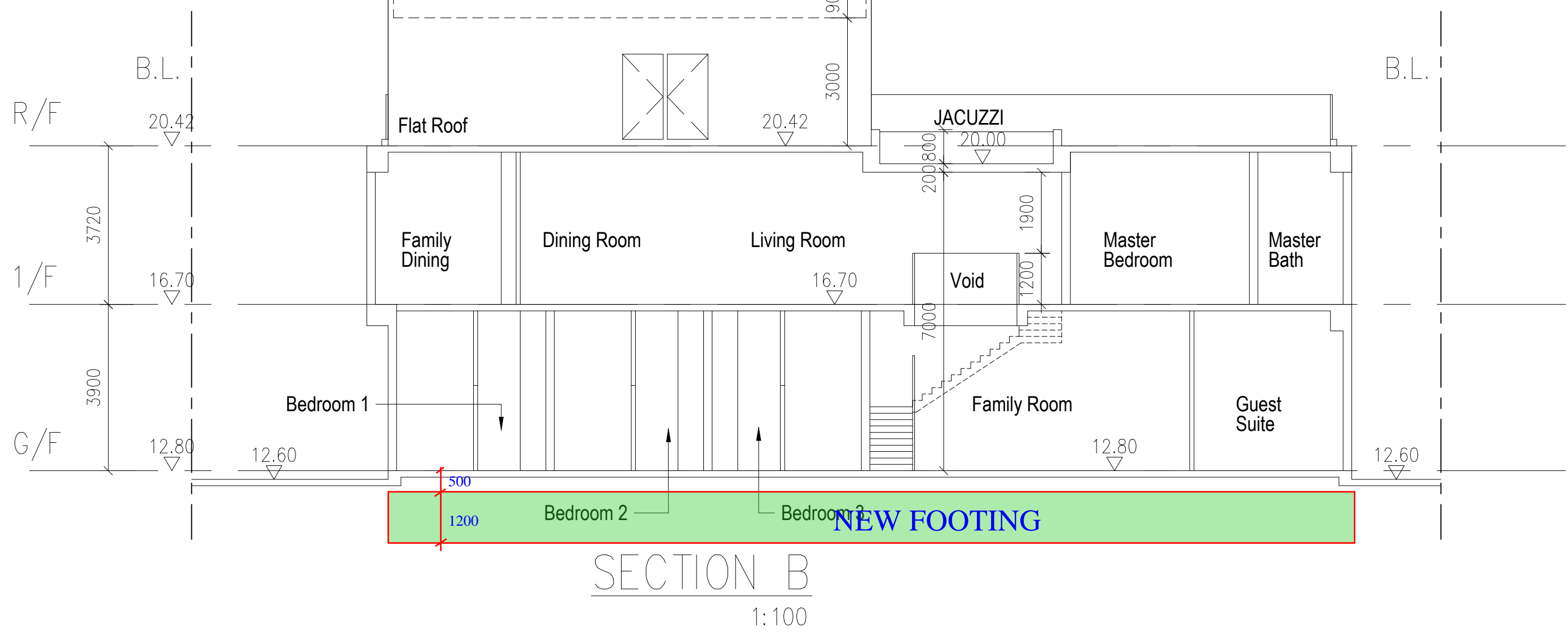
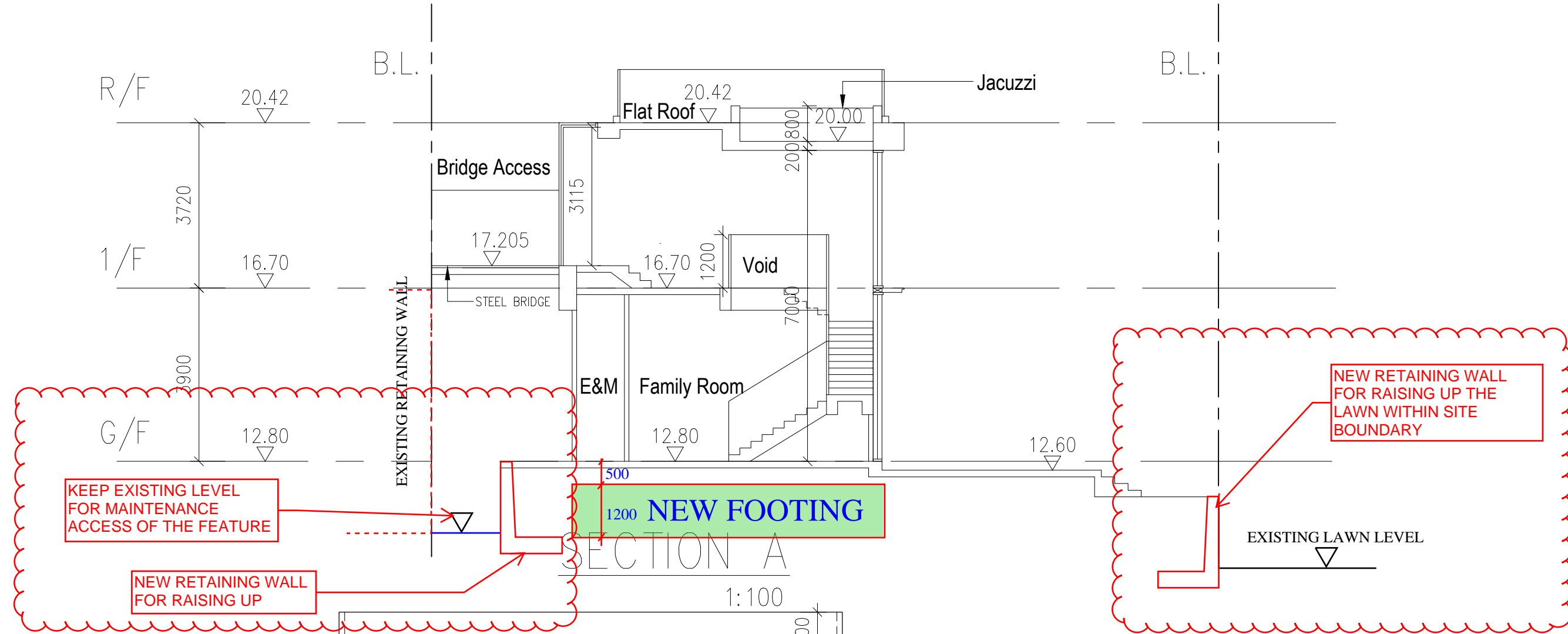


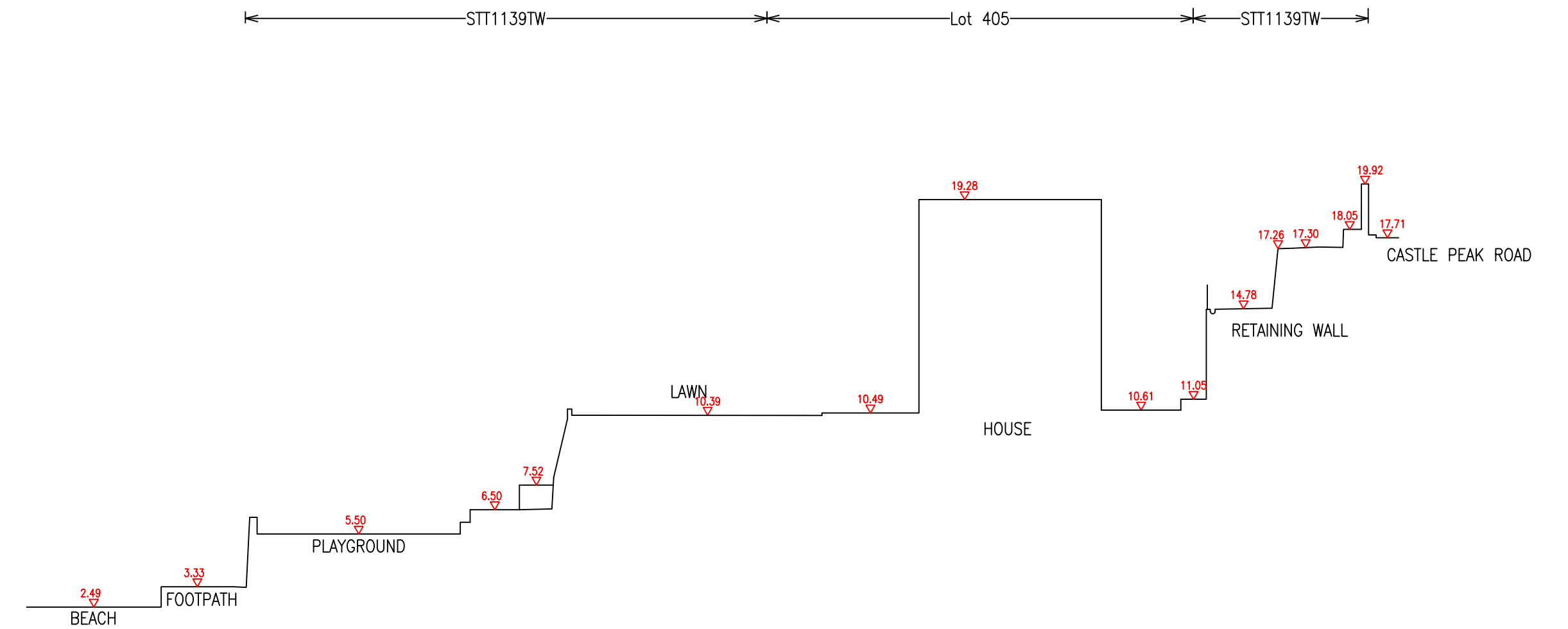
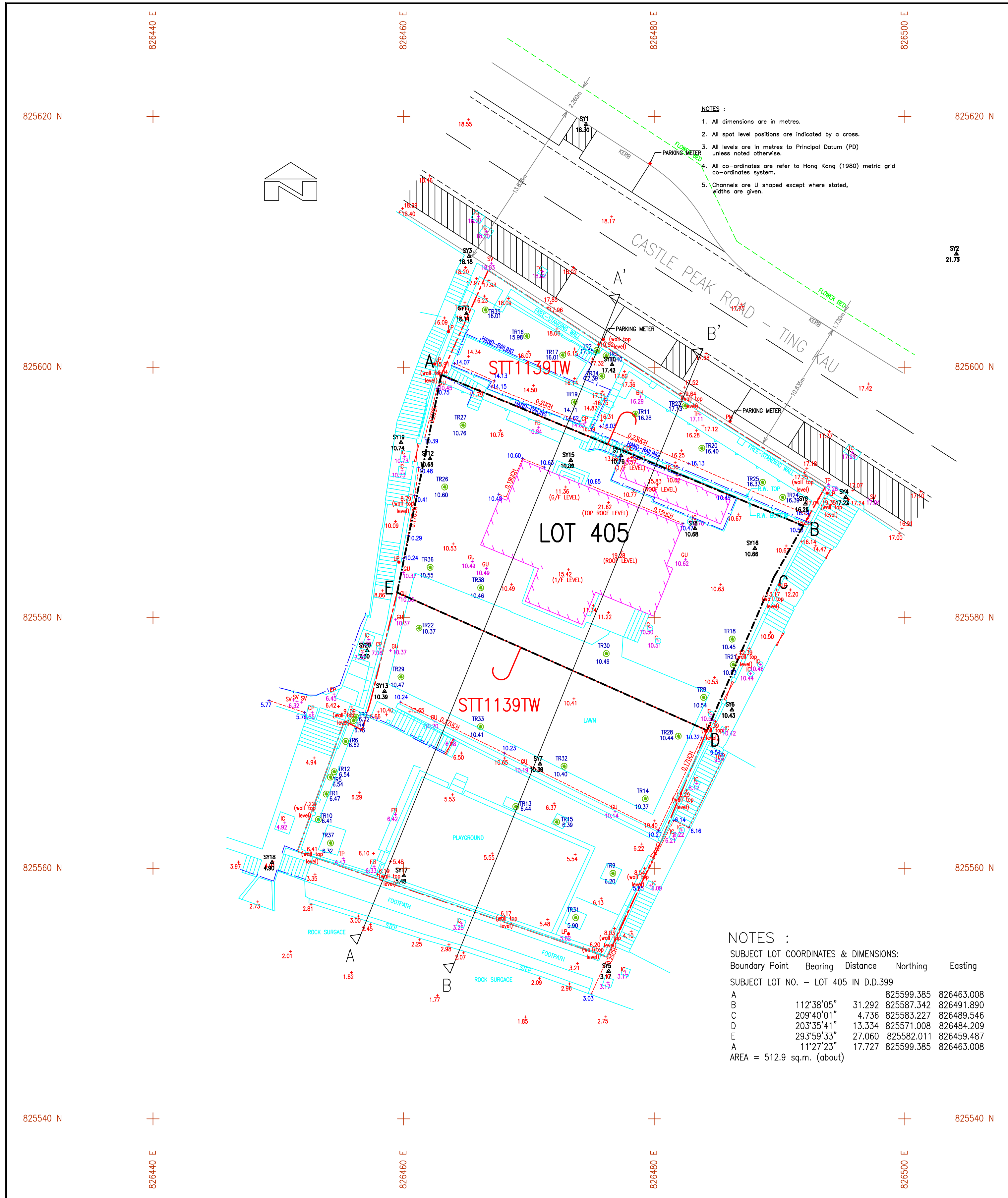
1ST/ FLOOR  
1:150



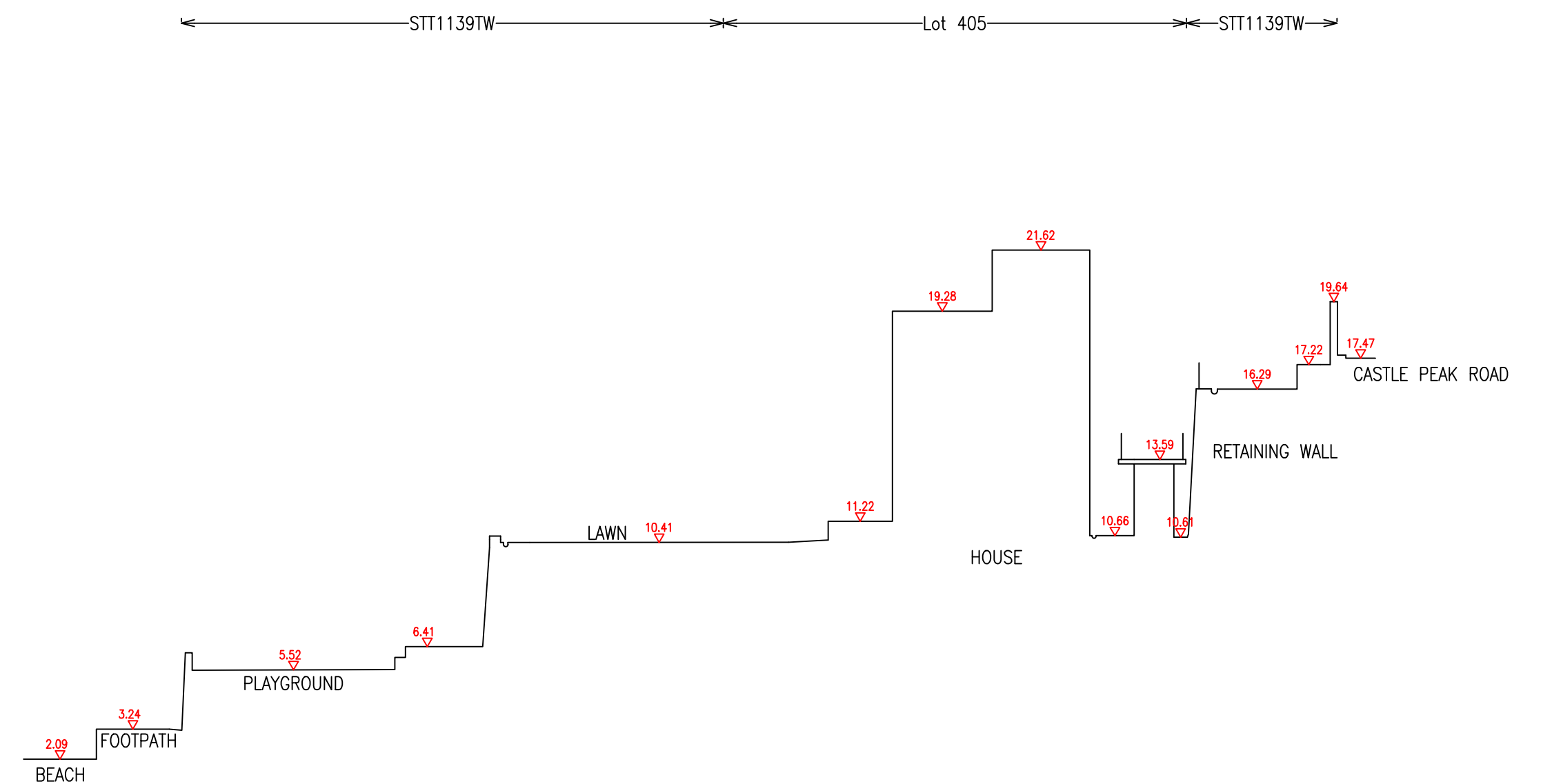
ROOF  
1:150







Section A-A'



Section B-B'

ABBREVIATIONS :-

BH BORE HOLE  
BO BOLLARD  
COH COVERED CHANNEL  
CLF CHAIN LINK FENCE  
CONC CONCRETE  
CP CATCH PIT  
DC DUCT COVER  
DP DOWN PIPE  
EE ELECTRIC COVER  
EEE ELECTRICITY EARTH  
EP ELECTRIC POLE  
EM ELECTRIC MANHOLE  
FB FLOWER BED  
FH FIRE HYDRANT  
GA GAS VALVE  
GR GRAVE  
GU GULLY  
HF HOARDING FOOTING  
IC INSPECTION COVER  
ICF INSPECTION COVER-FOUL WATER  
ICS INSPECTION COVER-STORM WATER  
IL INVERT LEVEL  
LP LAMP POST  
MB MAIL BOX  
MH MANHOLE

P POST  
PM PARKING METER  
RK ROCK  
SC SPRAYED CONCRETE  
SCH STEPPED CHANNEL  
SEA SEA  
SH SHIRINE  
SI SIGN POST  
ST SEPTIC TANK  
SV STOP VALVE  
SW SWITCH BOX  
TV TELEPHONE COVER  
TL TRAFFIC LIGHT  
TP TELEGRAPH POLE  
TS TEMPORARY STRUCTURE  
TV CABLE TV  
U CHANNEL  
WE WELL  
WT WATER TANK  
TR TREE (GIRTH/HEIGHT/SPREAD)

SYMBOLS :-

ROCK BOULDER

DIRECTION OF FLOW

CANOPY

GATE

ARTIFICIAL SLOPE

TREE

OVER-HANG STRUCTURE LEVEL

TOP ROOF LEVEL

HOUSE/BUILDING

HARD DETAIL

SOFT DETAIL

LOT BOUNDARY

STT BOUNDARY

VERTICAL RETAINING WALL

OVERHEAD STRUCTURE

DRAIN

FENCE/HOARDING/RAILING

SCALE 1 : 200



DATE OF SURVEY : AUGUST 2011

SUBSTANCE LAB LIMITED

LOT 405 IN D.D. 399  
NO.313, CASTLE PEAK ROAD  
TING KAU, N.T.

TOPOGRAPHIC SURVEY

LAND MARKER (1980) H.K. CO., LTD.  
SUITE 1501, ONE MONGKOK ROAD COMMERCIAL CENTRE, KOWLOON  
TEL: 2663 9138 FAX: 2666 9921  
E-MAIL ADDRESS: general@landmarker.com

PLAN NO. 3404/01

REVISION NO.	DESCRIPTIONS	DATE
0		26-AUG-2011
1		16-SEPT-2011
2		14-OCT-2011

DRAWN BY: P.M. WONG  
SURVEYED BY: W.Y. FONG

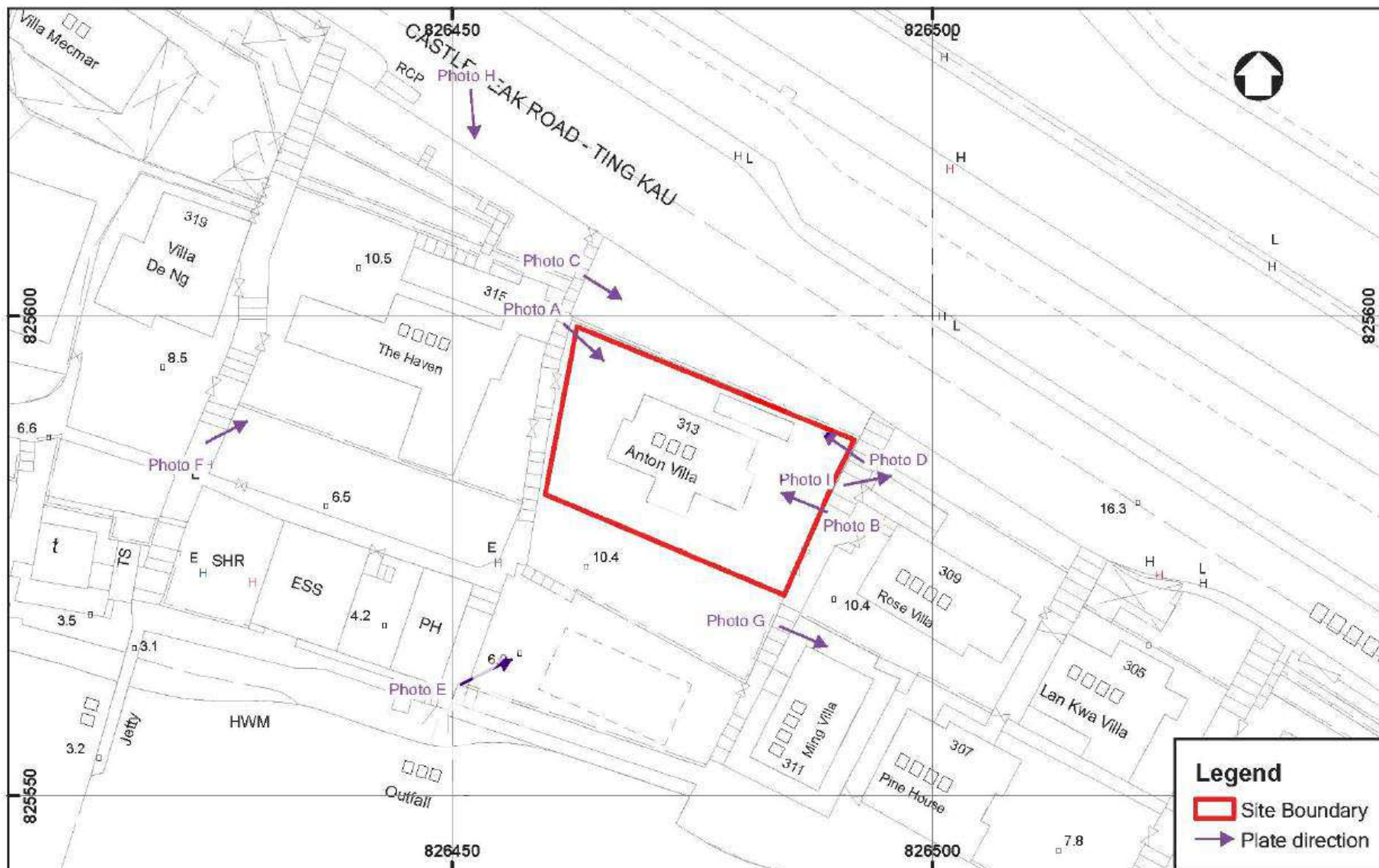
APPROVED BY:

JOSEPH Y. C. WONG  
AUTHORIZED LAND SURVEYOR MHKIS MRICS RPS(LS)

## **Appendix B**

Photographs





PROJECT: Proposed Development at Lot 405 in D.D. 399, No. 313 Castle Peak Road, Ting Kau, N. T.

TITLE: Plate Direction

SCALE:  
1 : 1500

JMK Consulting Engineers Ltd.

FIGURE NO :  
FIGURE B1



**Photo A – General View of the Proposed Development Site, Looking East**



**Photo B – General View of the Proposed Development Site, Looking West**





**Photo C – General View of the Feature No. 6SE-D/FR57**



**Photo D – General View of the Feature No. 6SE-D/R158**





**Photo E – General View of the Feature No. 6SE-D/R114**



**Photo F – General View of the Feature No. 6SE-D/R113**





**Photo G – General View of the Feature No. 6SE-D/R115**



**Photo H – General View of the Feature No. 6SE-D/R215**



**Photo I – General View of the Feature No. 6SE-D/FR203**

## **Appendix C**

SIMAR Record

## Slope Maintenance Responsibility Report

(6SE-D/R215)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>6SE-D/R215</b>	<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	Wholly within STT1206TW north of DD399 LOT404 in Ting Kau	
	<b>Responsible Lot/Party</b>	STT1206TW	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Not Applicable	

- End of Report -

#### Notes:

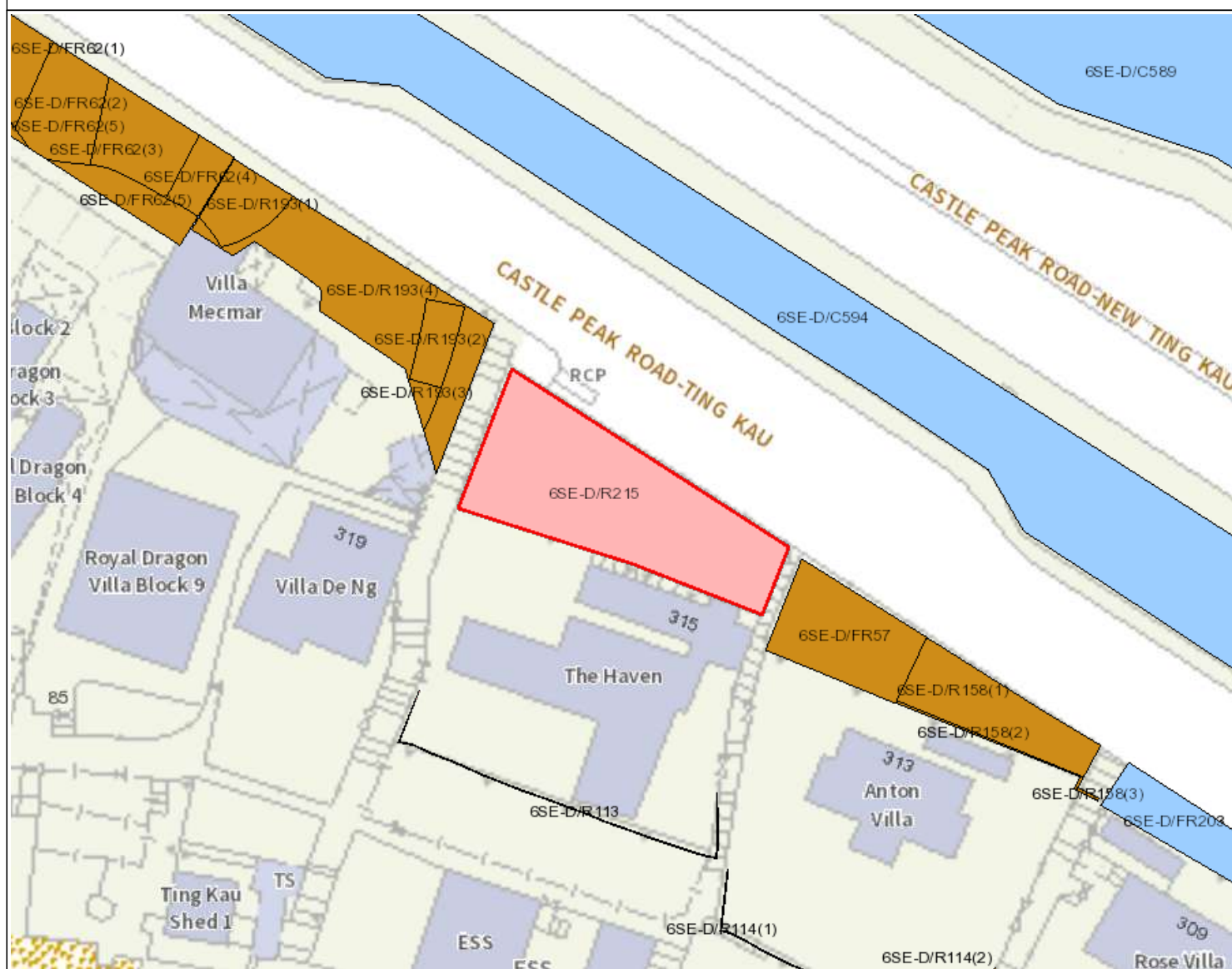
- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 6SE-D/R215



## 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



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

This Plan is **NOT TO SCALE** and intended for **IDENTIFICATION** only. All information shown on this plan **MUST** be verified by field survey.

Printed on: 24/10/2025

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Search Criteria: 6SE-D/R215

# Slope Maintenance Responsibility Report

(6SE-D/R158)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	6SE-D/R158		Sub-Division		1
	Location	MAINLY WITHIN STT 1139TW AND WITH SMALL PORTIONS WITHIN DD399 LOT 405 AND ON UNALLOCATED GOVERNMENT LAND			
	Responsible Lot/Party	STT 1139TW	Maintenance Agent		Not Applicable
	Remarks	Not Applicable			
2	6SE-D/R158		Sub-Division		1
	Location	MAINLY WITHIN STT 1139TW AND WITH SMALL PORTIONS WITHIN DD399 LOT 405 AND ON UNALLOCATED GOVERNMENT LAND			
	Responsible Lot/Party	Lands Department	Maintenance Agent		Lands Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.			
3	6SE-D/R158		Sub-Division		2
	Location	MAINLY WITHIN STT 1139TW AND WITH SMALL PORTIONS WITHIN DD399 LOT 405 AND ON UNALLOCATED GOVERNMENT LAND			
	Responsible Lot/Party	DD399 LOT 405	Maintenance Agent		Not Applicable
	Remarks	Not Applicable			
4	6SE-D/R158		Sub-Division		3
	Location	MAINLY WITHIN STT 1139TW AND WITH SMALL PORTIONS WITHIN DD399 LOT 405 AND ON UNALLOCATED GOVERNMENT LAND			
	Responsible Lot/Party	Lands Department	Maintenance Agent		Lands Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.			

- End of Report -

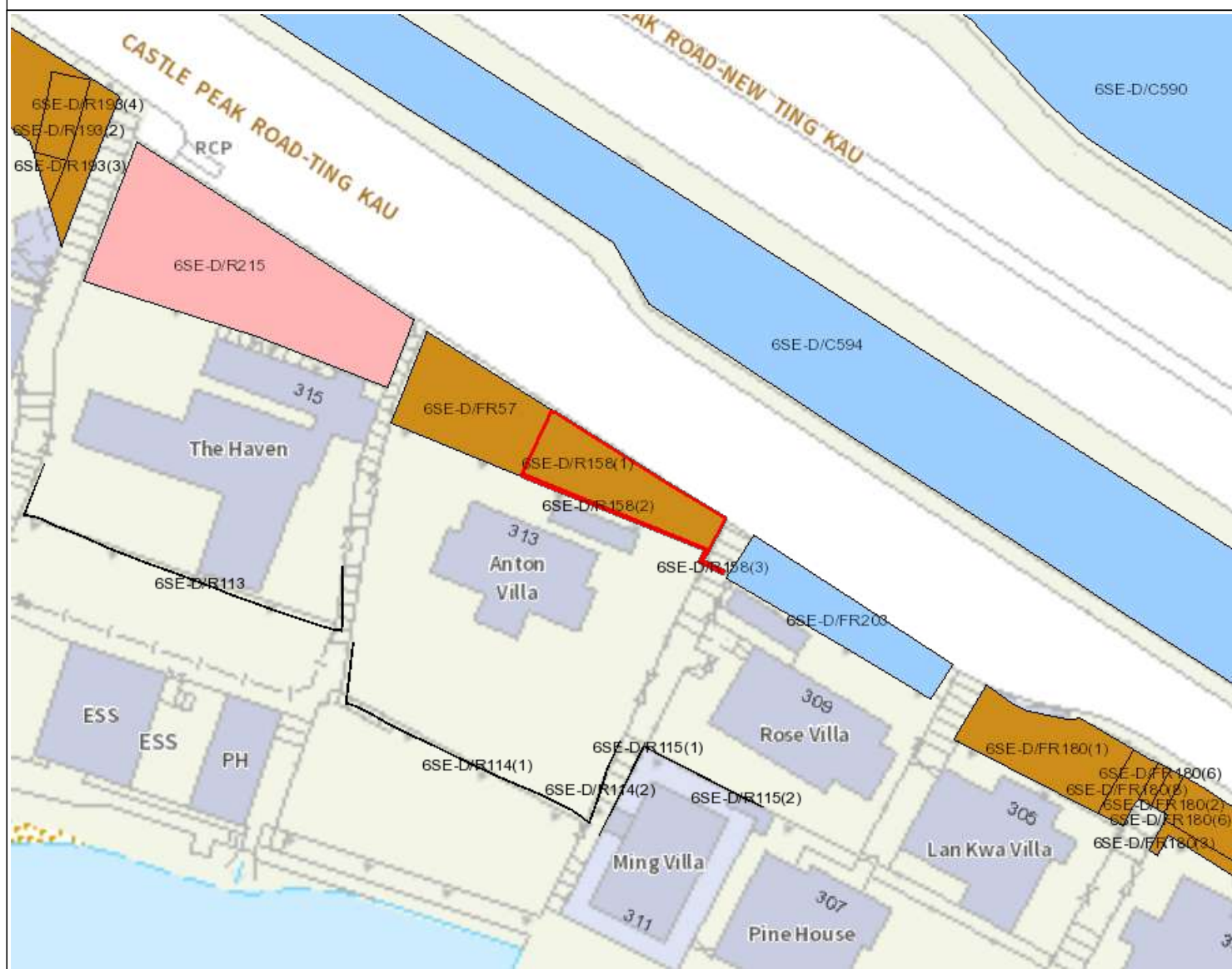
### Notes:

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Search Criteria: 6SE-D/R158

## 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



**ESTATE MANAGEMENT SECTION**  
**LANDS DEPARTMENT**

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Search Criteria: 6SE-D/R158



## Slope Maintenance Responsibility Report

(6SE-D/R115)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

1	6SE-D/R115		Sub-Division	1
	Location	SLOPE FALLS IN DD399 LOTS401 & 447 NEAR SPOT LEVEL 17.2		
	Responsible Lot/Party	DD399 LOT447	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
2	6SE-D/R115		Sub-Division	2
	Location	SLOPE FALLS IN DD399 LOTS401 & 447 NEAR SPOT LEVEL 17.2		
	Responsible Lot/Party	DD399 LOT401	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

#### Notes:

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Search Criteria: 6SE-D/R115

## 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



**ESTATE MANAGEMENT SECTION**  
**LANDS DEPARTMENT**

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Search Criteria: 6SE-D/R115

## Slope Maintenance Responsibility Report

(6SE-D/R114)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

1	6SE-D/R114		Sub-Division	1
	Location	MAINLY WITHIN STT1139TW AND WITH A VERY SMALL PORTION ON UNALLOCATED GOVERNMENT LAND		
	Responsible Lot/Party	STT1139TW	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
2	6SE-D/R114		Sub-Division	1
	Location	MAINLY WITHIN STT1139TW AND WITH A VERY SMALL PORTION ON UNALLOCATED GOVERNMENT LAND		
	Responsible Lot/Party	Lands Department	Maintenance Agent	Lands Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		
3	6SE-D/R114		Sub-Division	2
	Location	MAINLY WITHIN STT1139TW AND WITH A VERY SMALL PORTION ON UNALLOCATED GOVERNMENT LAND		
	Responsible Lot/Party	Lands Department	Maintenance Agent	Lands Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		

- End of Report -

#### Notes:

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Search Criteria: 6SE-D/R114

## 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



**ESTATE MANAGEMENT SECTION**  
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Search Criteria: 6SE-D/R114

## Slope Maintenance Responsibility Report

(6SE-D/R113)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>6SE-D/R113</b>		<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	WITHIN DD399 LOT404		
	<b>Responsible Lot/Party</b>	DD399 Lot404	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Not Applicable		

- End of Report -

#### Notes:

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Search Criteria: 6SE-D/R113



## 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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Search Criteria: 6SE-D/R113

## Slope Maintenance Responsibility Report

(6SE-D/FR203)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>6SE-D/FR203</b>	<b>Sub-Division</b>		Not Applicable
	<b>Location</b>	ADJOINING CASTLE PEAK ROAD - TING KAU IN DEMARCATION DISTRICT 399		
	<b>Responsible Lot/Party</b>	Highways Department	<b>Maintenance Agent</b>	Highways Department
	<b>Remarks</b>	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		

- End of Report -

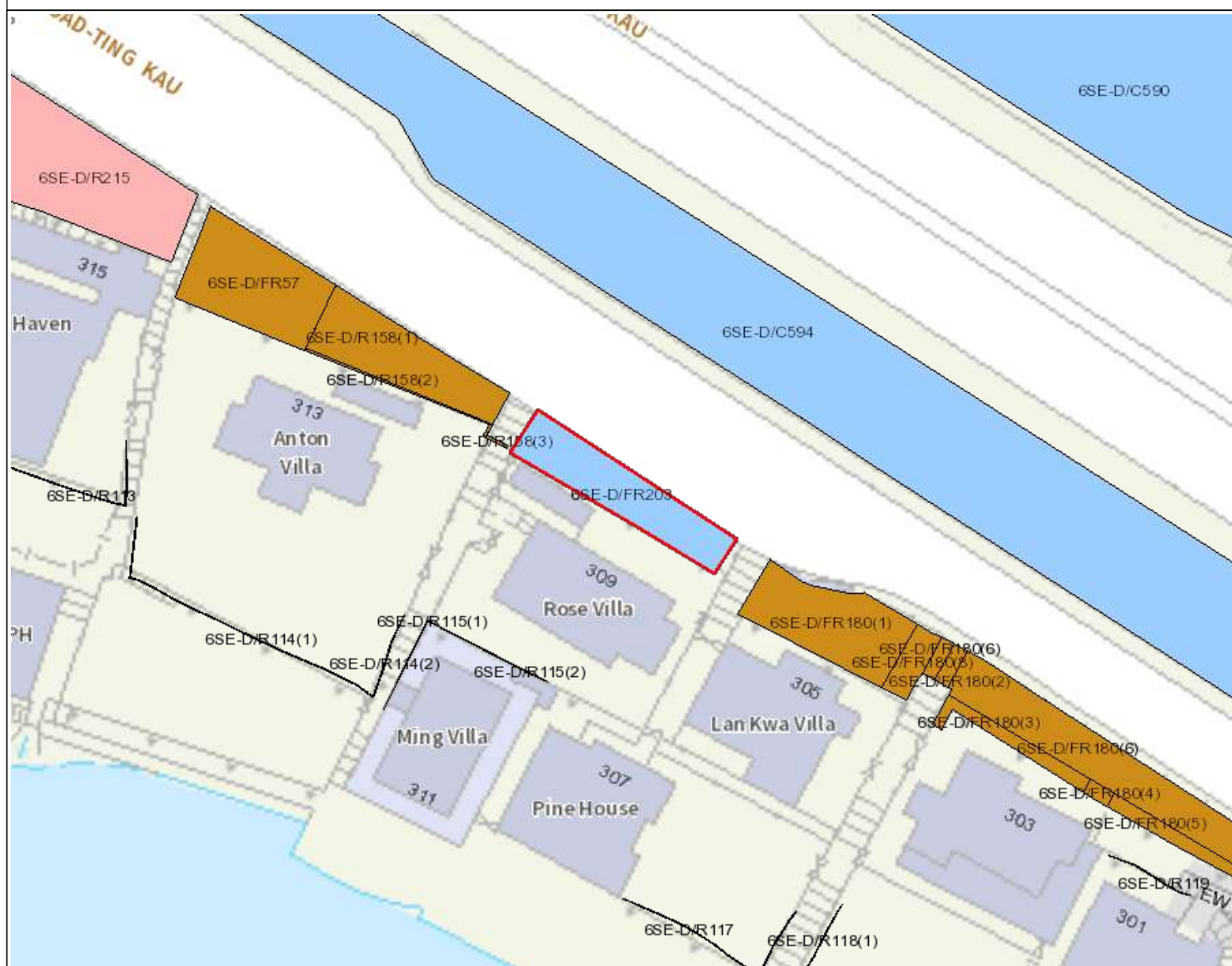
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Search Criteria: 6SE-D/FR203

## 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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Search Criteria: 6SE-D/FR203



## Slope Maintenance Responsibility Report

(6SE-D/FR57)



**ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT**

### List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>6SE-D/FR57</b>		<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	WITHIN STT1139TW		
	<b>Responsible Lot/Party</b>	Lands Department	<b>Maintenance Agent</b>	Lands Department
	<b>Remarks</b>	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		
<b>2</b>	<b>6SE-D/FR57</b>		<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	WITHIN STT1139TW		
	<b>Responsible Lot/Party</b>	STT1139TW	<b>Maintenance Agent</b>	Not Applicable
	<b>Remarks</b>	Not Applicable		

- End of Report -

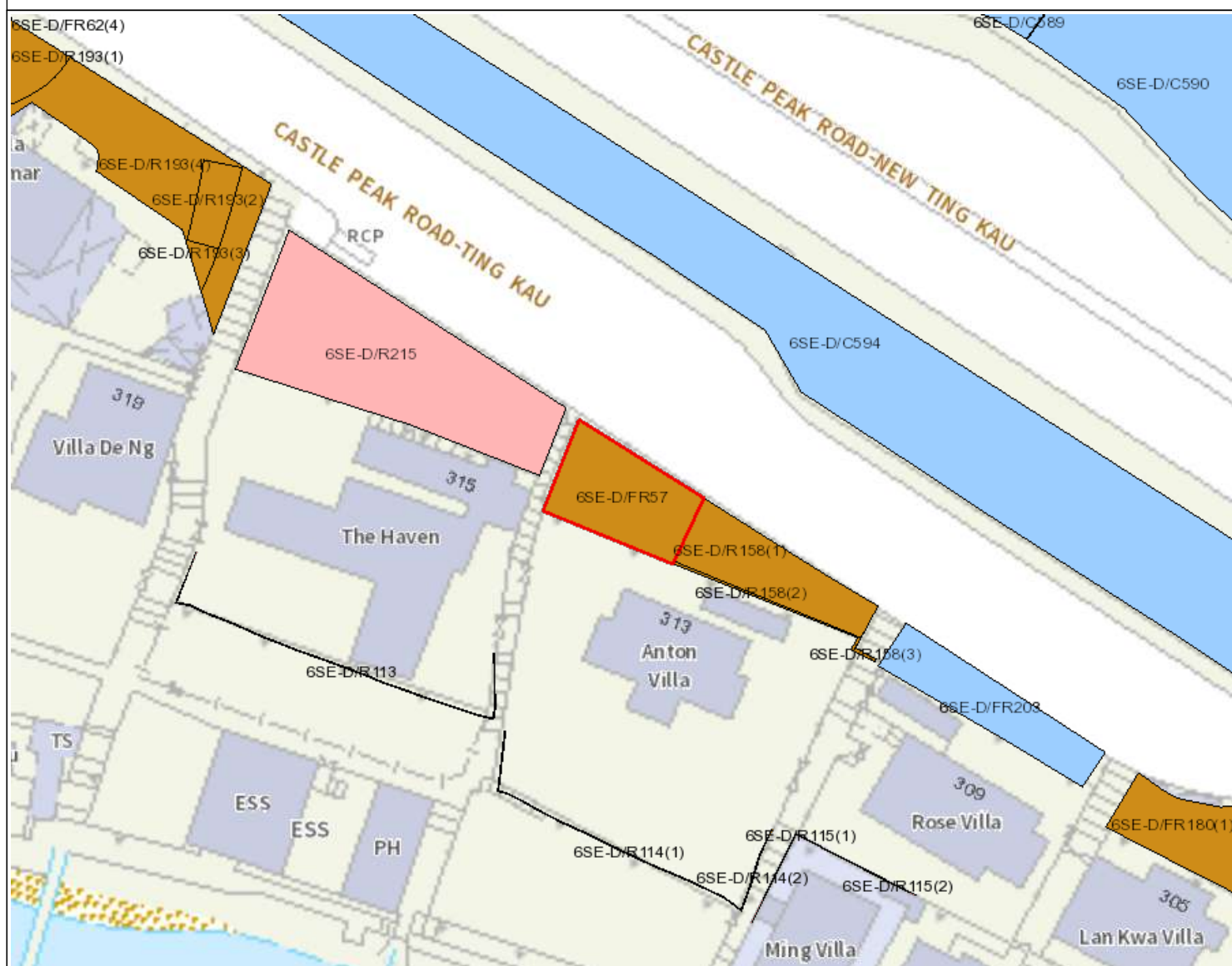
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Search Criteria: 6SE-D/FR57

## 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



**ESTATE MANAGEMENT SECTION**  
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Search Criteria: 6SE-D/FR57

## **Appendix D**

Slope Records Retrieved from CEDD

## BASIC INFORMATION

Location: Castle Peak Road - Ting Kau  
Registration Date: 25-09-2012  
Ranking Score (NPRS): 3620 (LPMit)  
Date of Formation: pre-1977  
Date of Construction/ Modification:  
Data Source: EI(Lands D)  
Approximate Coordinates: Easting : 826448    Northing : 825613

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Open car park  
Distance of Facility from Crest (m): 0  
Facility at Toe: Residential building  
Distance of Facility from Toe (m): 1  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)    Max. Height (m): 8.2    Length (m): 30    Face Angle (deg): 90

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0    Private Feature    Party: STT1206TW    Agent: N/A    Land Cat.: 1    Reason Code: 3    MR Endorsement Date: 27-11-2015

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 16-09-2010  
Data Source: EI(Lands D)  
Slope Part Drainage: N/A  
Wall Part Drainage: N/A

## SLOPE PART

N/A

## WALL PART



Wall Part (1)

Type of Wall:	Wall Material: Concrete	Wall Location: Wall at toe
Berm:	No. of Berms: 3	Min. Berm Width (m): 1
Weepholes:	Size (mm): 25	Spacing (m): 1

## SERVICES

(1) Utilities Type: Water Main    Size(mm): 200    Location: On crest    Remark: N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.:	N/A
Map Sheet Reference (1:1000):	N/A
Aerial Photos:	N/A
Nearest Rainguage Station (Station Number):	()
Data Collected On:	16-09-2010
Date of Construction, Subsequent Modification and Demolition:	N/A
Related Reports/Files or Documents:	N/A
Remarks:	N/A
Follow Up Actions:	N/A
DH-Order (To Be Confirmed with Buildings Department):	None
Advisory Letter (To Be Confirmed with Buildings Department):	Date of Recommendation to BD: N/A    File Reference: N/A Date Served by BD: 08/07/2024
LPMIS:	Agreement No.: CE62/2019    Report No.: S2R024/2022 Agreement No.: CE23/2011    Report No.: S3R 103/2014

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)



## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Residential building

Distance from Toe(m): 1

Type of Crest Facility: Open car park

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

## ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

## OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:

Action By: N/A

## eLPMIS

### LPM/LPMit Details Report

LPM Study Feature No.:	6SE-D/R 215
Location:	Castle Peak Road - Ting Kau
District Council:	Tsuen Wan
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	STT1206TW

### LPM/LPMit Study

Agreement No.:	CE62/2019
Study Type:	Stage 2 Study
Consultant:	C M Wong & Associates Ltd.
GEO Managing Section / Engineer:	SS / SS1
Study Status:	Study completed
Design Approach:	N/A
Option Assessment Accepted:	N
Study Report No.:	S2R024/2022
Programme / Actual Commencement:	25-01-2022
Programme / Actual Completion:	28-02-2022
Report Recommendation (For Stage 2 Study):	Advisory Letter
District Check Status:	N/A
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	AL issued on 08/07/2024.

### LPM/LPMit Works

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A
Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A

Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A

**LPM/LPMit Details Report**

LPM Study Feature No.:	6SE-D/FR 155
Location:	Castle Peak Road - Ting Kau
District Council:	Tsuen Wan
Maintenance Responsibility (At the Time of Selection):	Mixed
Responsible Party for Maintenance of Government Portion:	Lands D
Private Lot No.:	STT1206TW

**LPM/LPMit Study**

Agreement No.:	CE23/2011
Study Type:	Stage 3 Study Under Schedule of Rates Contract
Consultant:	Fugro (HK) Ltd.
GEO Managing Section / Engineer:	LPM3 / CM62
Study Status:	Study completed
Design Approach:	Prescriptive
Option Assessment Accepted:	Y
Study Report No.:	S3R 103/2014
Programme / Actual Commencement:	16-04-2014
Programme / Actual Completion:	15-11-2014
Report Recommendation (For Stage 2 Study):	N/A
District Check Status:	N/A
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	Feature No. 6SE-D/FR155 under Agreement No. CE23/2011 (GE) has been renamed to 6SE-D/R215. LPM works could not be carried out under GE/2013/29 as MR is changed from HyD to private.

**LPM/LPMit Works**

Works Contract No.:	GE/2013/29
GEO Managing Section / Engineer:	LPM3 / W1
Contractor:	Geotech Engineering Limited
Progress Status:	Works suspended
Reason of Study Termination / Works Deletion (If Necessary):	MR wholly private
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	0



---

Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A

PHOTO









## BASIC INFORMATION

Location: No. 311-313 Castle Peak Road, Ting Kau  
Registration Date: 28-04-2000  
Ranking Score (NPRS): 0 (EI)  
Date of Formation: pre-1977  
Date of Construction/ Modification: 31-05-2010  
Data Source: Project Office  
Approximate Coordinates: Easting : 826485    Northing : 825594

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Open car park  
Distance of Facility from Crest (m): 0  
Facility at Toe: Cottage, licensed and squatter area  
Distance of Facility from Toe (m): 0.3  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)    Max. Height (m): 7    Length (m): 18.7    Face Angle (deg): 90

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Mixed Feature	Party: STT 1139TW	Agent: N/A	Land Cat.: 1,5b(vi)	Reason Code: 3	MR Endorsement Date: 27-05-2014
(2) Sub Div.: 1	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 1,5b(vi)	Reason Code: 59	MR Endorsement Date: 27-05-2014
(3) Sub Div.: 2	Mixed Feature	Party: DD399 LOT 405	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-05-2014
(4) Sub Div.: 3	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 5b(vi)	Reason Code: 62	MR Endorsement Date: 27-05-2014

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 03-08-2018  
Data Source: Project Office  
Slope Part Drainage: N/A  
Wall Part Drainage: N/A

## SLOPE PART

N/A

## WALL PART

Wall Part (1)

Type of Wall: Wall Material: Concrete Wall Location: Retaining wall with level platform

Berm: No. of Berms: 1 Min. Berm Width (m): 2

Weepholes: Size (mm): 50 Spacing (m): 1.5

## SERVICES

N/A

## CHECKING STATUS INFORMATION

Tagmark: SCS\_13254 Part: 0 Checking Status: Feature modified/upgraded to current standard Checking Certificate No.: GEO/MW 008/2013

## BACKGROUND INFORMATION

GIU Cell Ref.: 6SE18D4

Map Sheet Reference (1:1000): 6SE-18D

Aerial Photos: Y08950-1 (1963),

Nearest Rainguage Station (Station Number): Emmanuel Primary School, 13 Miles, Castle Peak Road(N10)

Data Collected On: 03-08-2018

Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1963 After: N/A

Related Reports/Files or Documents: File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
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File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: Development Ref. No.: GCMW2/B2/200  
File/Report: LA Ref. No.: GCMW5/3/16 OP.14f30,32 PT.5f112  
File/Report: LA Ref. No.: GCMW5/3/16 OP.14f30,32 PT.5f112  
File/Report: LWC Ref. No.: GC4/1/2-5f7A  
File/Report: LWC Ref. No.: GC4/1/2-5f7A

Remarks: N/A

Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: Agreement No.: CE47/2005 Report No.: S2R18/2008

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

Upgraded by:

Prescriptive Design Using GEO Report No. 56: N/A

Non-prescriptive Design Including Conventional Design: Yes

Improved by:

Type 1 / Type 2 Prescriptive Measures: N/A

Type 3 Prescriptive Measures (not up to upgrading standard): N/A

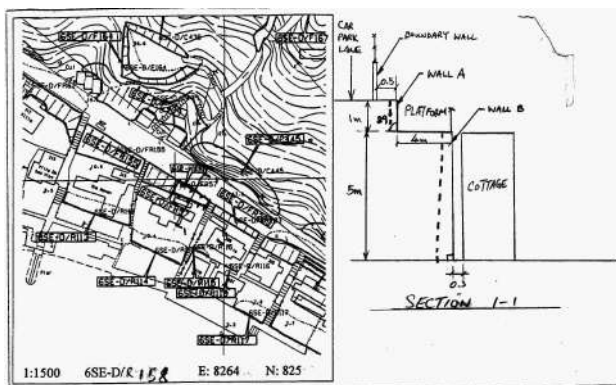
Actual Completion Date: 31-05-2010

## STAGE 1 STUDY REPORT

Inspected On: 17-12-1999

Weather: Some Rain

District: MW



Section No: 1-1  
Height(m): H1 : 5 , H2 : 5  
Type of Toe Facility: Cottage, licensed and squatter area  
Distance from Toe(m): 0.3  
Type of Crest Facility: Open car park  
Distance from Crest(m): 0  
Consequence Category: 1  
Engineering Judgement: P  
Section No: 2-2  
Type of Toe Facility:  
Distance from Toe(m):  
Type of Crest Facility:  
Distance from Crest(m):

Consequence Category:	1
Engineering Judgement:	P
Sign of Seepage:	Slope : N/A Wall : Signs of seepage
Criterion A satisfied:	N
Sign of Distress:	Slope : N/A Wall : Minimal(near crest, mid-portion)
Criterion D satisfied:	N
Non-routine maintenance required:	N
Note:	N/A
Masonry wall/Masonry facing:	Y
Note:	N/A
Consequence category (for critical section):	1
Observations:	N/A
Emergency Action Required:	N
Action By:	N/A

### ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	Y
Action By:	Private

### OTHER EXTERNAL ACTION

Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

### eLPMIS

#### LPM/LPMit Details Report

LPM Study Feature No.:	6SE-D/R 158
Location:	TING AKU, NO.311-313 CASTLE PEAK ROAD
District Council:	Tsuen Wan
Maintenance Responsibility (At the Time of Selection):	Mixed
Responsible Party for Maintenance of Government Portion:	Lands D
Private Lot No.:	STT139TW

#### LPM/LPMit Study

Agreement No.:	CE47/2005
Study Type:	Stage 2 Study
Consultant:	Maunsell Geotechnical Services Ltd.
GEO Managing Section / Engineer:	SS / SS3
Study Status:	Study completed
Design Approach:	N/A
Option Assessment Accepted:	N/A
Study Report No.:	S2R18/2008
Programme / Actual Commencement:	23-01-2008
Programme / Actual Completion:	07-09-2008
Report Recommendation (For Stage 2 Study):	No action required
District Check Status:	Exempted from checking
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	N/A

**LPM/LPMit Works**

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A
Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A



**PHOTO**









# SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

## Slope Checking Status

Name	Value
SCS ID	SCS_13254
SCS Feature	6SE-D/R 158
SCS Part	0
SCS Status	5
Checking Status	Feature modified/upgraded to current standard
Check Cert	GEO/MW 008/2013
Feature Remark	GEO accepted the design report for feature no. 6SE-D/FR57 & 6SE-D/R158 on 10.2.2010.
Reviewer	CHAN HUNG WAI, CORN
GEO Reply	2013/02/04
Last Update	08-02-2013
Easting	826477
Northing	825600
-----	-----
File Ref	GCMW 2/E1/6SE-D/R158
ERKS File Ref	MW-30-2025-1-6SE-D/R158
File Title	Ag No. CE31/2006(GE), EMP, Design Report for feature no. 6SE-D/FR57 & 6SE-D/R158, No. 311-313, Castle Peak Road, Ting Kau
Project Type	Public
File Ref Image	Open Image

## BASIC INFORMATION

Location: Rose Villa, Castle Peak Road, Ting Kau, Tsuen Wan, New Territories. Lot No. 401 in D.D. 399  
Registration Date: 16-03-1998  
Ranking Score (NPRS): 0 (Notional)  
Date of Formation: pre-1977  
Date of Construction/ Modification: 15-07-2011  
Data Source: AP  
Approximate Coordinates: Easting : 826486    Northing : 825569

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Residential building  
Distance of Facility from Crest (m): 4.5  
Facility at Toe: Residential building  
Distance of Facility from Toe (m): 2.5  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)    Max. Height (m): 4.1    Length (m): 19    Face Angle (deg): 90

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Private Feature	Party: DD399 LOT447	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 17-07-2006
(2) Sub Div.: 2	Private Feature	Party: DD399 LOT401	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 17-07-2006

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 03-11-2011  
Data Source: AP  
Slope Part Drainage: N/A  
Wall Part Drainage: (1)    Position: Crest    Size(mm): 225

## SLOPE PART

N/A

## WALL PART



Wall Part (1)

Type of Wall: Wall Material: Masonry Wall Location: Retaining wall with level platform  
Berm: No. of Berms: N/A Min. Berm Width (m): N/A  
Weepholes: Size (mm): 50 Spacing (m): 1.5

## SERVICES

(1) Utilities Type: Water Main Size(mm): 25 Location: On crest Remark: N/A

## CHECKING STATUS INFORMATION

Tagmark: SCS\_10329 Part: 1 Checking Status: Feature modified/upgraded to current standard Checking Certificate No.: N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 6SE18D4  
Map Sheet Reference (1:1000): 6SE-18D  
Aerial Photos: Y08950 (1963), Y08951 (1963)  
Nearest Rainguage Station (Station Number): Emmanuel Primary School, 13 Miles, Castle Peak Road(N10)  
Data Collected On: 03-11-2011  
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1963 After: N/A  
Related Reports/Files or Documents: N/A  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): Date of Recommendation to BD: 05/12/2007 File Reference: DH/0131/05/NT  
Date Served by BD: 30/05/2008 Notice No.: DH0052/NT/08/C  
Date of Recommendation to BD: 05/12/2007 File Reference: DH/0131/05/NT  
Date Served by BD: 17/09/2010 Notice No.: DH0120/NT/10/C  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: Agreement No.: CE10/2003 Report No.: S2R209/2005

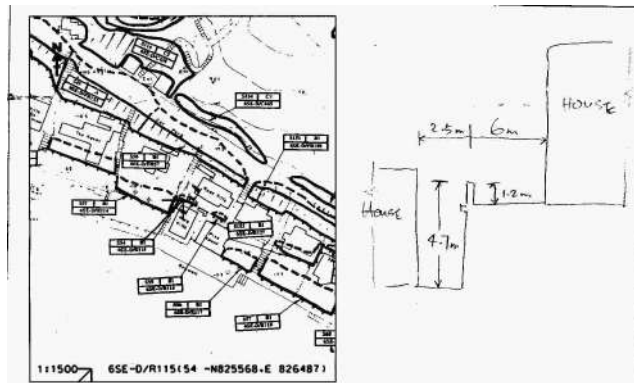
## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)



## STAGE 1 STUDY REPORT

Inspected On: 20-03-1997  
Weather: Some Rain  
District: MW



Section No: 1-1  
Height(m): H1 : 5 , H2 : 5  
Type of Toe Facility: Residential building  
Distance from Toe(m): 2.5  
Type of Crest Facility: Residential building  
Distance from Crest(m): 4.5  
Consequence Category: 1  
Engineering Judgement: P  
Section No: 2-2  
Type of Toe Facility:  
Distance from Toe(m):  
Type of Crest Facility:  
Distance from Crest(m):  
Consequence Category: 1  
Engineering Judgement: P  
Sign of Seepage: Slope : N/A  
Wall : Signs of seepage  
Criterion A satisfied: N  
Sign of Distress: Slope : N/A  
Wall : Minimal(near crest)  
Criterion D satisfied: N  
Non-routine maintenance required: N  
Note: N/A  
Masonry wall/Masonry facing: Y  
Note: Square rubble.  
Consequence category (for critical section): 1  
Observations: N/A  
Emergency Action Required: N  
Action By: N/A

## ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	Y
Action By:	Mixed

## OTHER EXTERNAL ACTION

Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

## eLPMIS

### LPM/LPMit Details Report

LPM Study Feature No.:	6SE-D/R 115
Location:	MING VILLA DD339 LOT 447, CASTLE PEAK ROAD, TING KAU
District Council:	Tsuen Wan
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	DD399 Lot447, DD399 Lot401

### LPM/LPMit Study

Agreement No.:	CE10/2003
Study Type:	Stage 2 Study
Consultant:	Scott Wilson (HK) Ltd.
GEO Managing Section / Engineer:	SS / SS2
Study Status:	Study completed
Design Approach:	N/A
Option Assessment Accepted:	N/A
Study Report No.:	S2R209/2005
Programme / Actual Commencement:	30-12-2004
Programme / Actual Completion:	24-03-2006
Report Recommendation (For Stage 2 Study):	DH Order, No action required
District Check Status:	Checked
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	N/A

### LPM/LPMit Works

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A



## SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE  
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Feature No. 6SE-D/R 115

Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A

**PHOTO**









# SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

## Slope Checking Status

Name	Value
SCS ID	SCS_10329
SCS Feature	6SE-D/R 115
SCS Part	1
SCS Status	5
Checking Status	Feature modified/upgraded to current standard
Check Cert	N/A
Feature Remark	Agreed to BA14 on 06/01/2012 6SE-D/R115 (Sub-Div. 2).
Reviewer	CHAN HUNG WAI, CORN
GEO Reply	2012/01/06
Last Update	26-03-2012
Easting	826486
Northing	825568
-----	-----
File Ref	GCMW 3/5/DH131/05/NT
ERKS File Ref	MW-10-2010-4-DH131/05/NT
File Title	ROSA VILLA, CASTLE PEAK ROAD, TING KAU, TSUEN WAN, N.T. - LOT 401 IN DD399 (6SE-D/R115 sub-div. 2)
Project Type	Private
File Ref Image	N/A

## BASIC INFORMATION

Location: NO.313, CASTLE PEAK ROAD, TING KAU  
Registration Date: 16-03-1998  
Ranking Score (NPRS): 0 (EI)  
Date of Formation: pre-1977  
Date of Construction/ Modification:  
Data Source: SIRST  
Approximate Coordinates: Easting : 826469    Northing : 825568

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Horticulture garden  
Distance of Facility from Crest (m): 0  
Facility at Toe: Lightly-used playground  
Distance of Facility from Toe (m): 3  
Consequence-to-life Category: 2  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)    Max. Height (m): 4    Length (m): 43    Face Angle (deg): 87

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Mixed Feature	Party: STT1139TW	Agent: N/A	Land Cat.: 1,5b(vi)	Reason Code: 3	MR Endorsement Date: 20-06-2012
(2) Sub Div.: 1	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 1,5b(vi)	Reason Code: 59	MR Endorsement Date: 20-06-2012
(3) Sub Div.: 2	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 5b(vi)	Reason Code: 62	MR Endorsement Date: 20-06-2012

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 20-03-1997  
Data Source: SIRST  
Slope Part Drainage: N/A  
Wall Part Drainage: (1)    Position: Toe    Size(mm): 175

## SLOPE PART

N/A

## WALL PART

Wall Part (1)

Type of Wall: Wall Material: Others Wall Location: Retaining wall with level platform

Berm: No. of Berms: N/A Min. Berm Width (m): N/A

Weepholes: Size (mm): 40 Spacing (m): 1.2

## SERVICES

(1) Utilities Type: Electricity Size(mm): 0 Location: On crest Remark: Size cannot be determined

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 6SE18D4

Map Sheet Reference (1:1000): 6SE-18D

Aerial Photos: Y08950 (1963), Y08951 (1963)

Nearest Rainguage Station (Station Number): Emmanuel Primary School, 13 Miles, Castle Peak Road(N10)

Data Collected On: 20-03-1997

Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1963 After: N/A

Related Reports/Files or Documents: File/Report: LA Ref. No.: GCMW5/3/16 pt14, 5/6/16 pt5  
File/Report: LA Ref. No.: GCMW5/3/16 pt14, 5/6/16 pt5

Remarks: N/A

Follow Up Actions: N/A

DH-Order (To Be Confirmed with Buildings Department): None

Advisory Letter (To Be Confirmed with Buildings Department): None

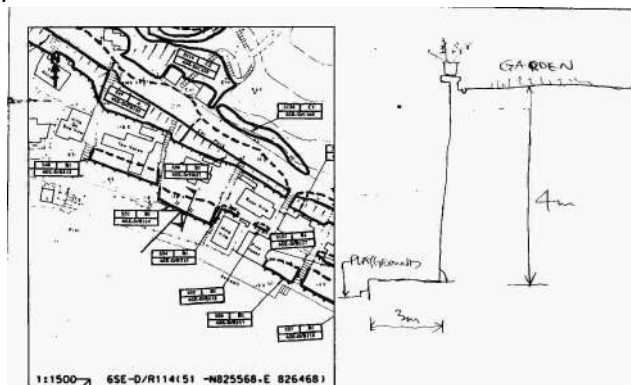
LPMIS: None

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

## STAGE 1 STUDY REPORT

Inspected On: 20-03-1997  
Weather: Some Rain  
District: MW



Section No: 1-1  
Height(m): H1 : 4 , H2 : 4  
Type of Toe Facility: Lightly-used playground  
Distance from Toe(m): 3  
Type of Crest Facility: Horticulture garden  
Distance from Crest(m): 0  
Consequence Category: 2  
Engineering Judgement: P  
Section No: 2-2  
Type of Toe Facility:  
Distance from Toe(m):  
Type of Crest Facility:  
Distance from Crest(m):  
Consequence Category: 2  
Engineering Judgement: P  
Sign of Seepage: Slope : N/A  
Wall : Signs of seepage  
Criterion A satisfied: N  
Sign of Distress: Slope : N/A  
Wall : Minimal(near crest, at toe)  
Criterion D satisfied: N  
Non-routine maintenance required: N  
Note: N/A  
Masonry wall/Masonry facing: Y  
Note: Square rubble  
Consequence category (for critical section): 2  
Observations: N/A  
Emergency Action Required: N  
Action By: N/A





### ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	Y
Action By:	Mixed

### OTHER EXTERNAL ACTION

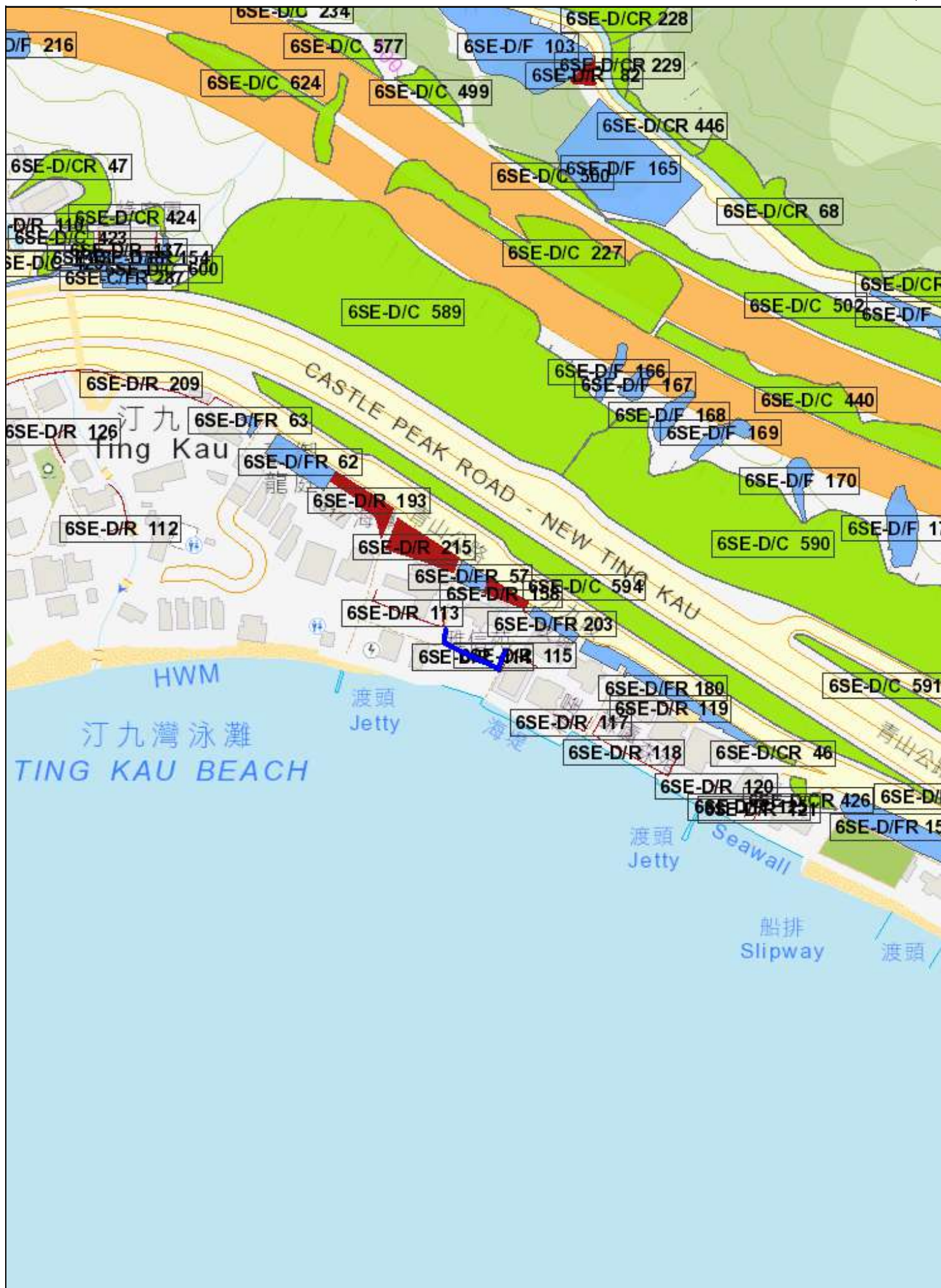
Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

**PHOTO**



6SE-D/R114

GENERAL VIEW



## BASIC INFORMATION

Location: THE HAVEN, CASTLE PEAK ROAD, TING KAU  
Registration Date: 16-03-1998  
Ranking Score (NPRS): 0 (LPMit)  
Date of Formation: pre-1977  
Date of Construction/ Modification:  
Data Source: SIRST  
Approximate Coordinates: Easting : 826442    Northing : 825585

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Residential building  
Distance of Facility from Crest (m): 1  
Facility at Toe: Lightly-used playground  
Distance of Facility from Toe (m): 0  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

N/A

## WALL PART

(1)    Max. Height (m): 4    Length (m): 42    Face Angle (deg): 80

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0    Private Feature    Party: DD399 Lot404    Agent: N/A    Land Cat.: 1    Reason Code: 1    MR Endorsement Date: 05-01-1999

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 20-03-1997  
Data Source: SIRST  
Slope Part Drainage: N/A  
Wall Part Drainage: N/A

## SLOPE PART

N/A

## WALL PART



Wall Part (1)

Type of Wall: Wall Material: Others Wall Location: Retaining wall with level platform

Berm: No. of Berms: N/A Min. Berm Width (m): N/A

Weepholes: Size (mm): 65 Spacing (m): 1.2

## SERVICES

N/A

## CHECKING STATUS INFORMATION

N/A

## BACKGROUND INFORMATION

GIU Cell Ref.: 6SE18D4

Map Sheet Reference (1:1000): 6SE-18D

Aerial Photos: Y08950 (1963), Y08951 (1963)

Nearest Rainguage Station (Station Number): Emmanuel Primary School, 13 Miles, Castle Peak Road(N10)

Data Collected On: 20-03-1997

Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1963 After: N/A

Related Reports/Files or Documents: N/A

Remarks: N/A

Follow Up Actions: N/A

DH-Order (To Be Confirmed with Buildings Department): None

Advisory Letter (To Be Confirmed with Buildings Department): None

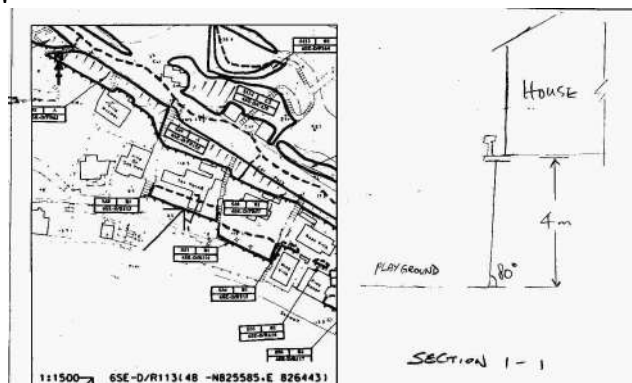
LPMIS: Agreement No.: CE79/97 Report No.: S2R261/2000

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

## STAGE 1 STUDY REPORT

Inspected On: 20-03-1997  
Weather: Mainly Fine  
District: MW



Section No: 1-1  
Height(m): H1 : 4 , H2 : 4  
Type of Toe Facility: Lightly-used playground  
Distance from Toe(m): 0  
Type of Crest Facility: Residential building  
Distance from Crest(m): 1  
Consequence Category: 1  
Engineering Judgement: P  
Section No: 2-2  
Type of Toe Facility:  
Distance from Toe(m):  
Type of Crest Facility:  
Distance from Crest(m):  
Consequence Category: 1  
Engineering Judgement: P  
Sign of Seepage: Slope : N/A  
Wall : Signs of seepage  
Criterion A satisfied: N  
Sign of Distress: Slope : N/A  
Wall : Minimal(near crest, mid-portion, at toe)  
Criterion D satisfied: N  
Non-routine maintenance required: N  
Note: N/A  
Masonry wall/Masonry facing: Y  
Note: N/A  
Consequence category (for critical section): 1  
Observations: N/A  
Emergency Action Required: N  
Action By: N/A

## ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	Y
Action By:	Mixed

## OTHER EXTERNAL ACTION

Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

## eLPMIS

### LPM/LPMit Details Report

LPM Study Feature No.:	6SE-D/R 113
Location:	The Haven, Castle Peak Road, Ting Kau.
District Council:	Tsuen Wan
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	DD399LOT404

### LPM/LPMit Study

Agreement No.:	CE79/97
Study Type:	Stage 2 Study
Consultant:	C M Wong & Associates Ltd.
GEO Managing Section / Engineer:	SS / SS1
Study Status:	Study completed
Design Approach:	Otherwise
Option Assessment Accepted:	N/A
Study Report No.:	S2R261/2000
Programme / Actual Commencement:	01-06-1998
Programme / Actual Completion:	30-11-2000
Report Recommendation (For Stage 2 Study):	Advisory Letter
District Check Status:	Checked
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	# Type 3 Advisory Letter referred to District Division on 4 December 2000.

### LPM/LPMit Works

Works Contract No.:	N/A
GEO Managing Section / Engineer:	N/A / N/A



## SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE  
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Feature No. 6SE-D/R 113

Contractor:	N/A
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A
Actual Works:	N/A
No. of Tree Felled:	N/A
No. of Tree Planted (Incl. Transplant):	N/A
% Bare of Slope Surfacing:	N/A
% Vegetated of Slope Surfacing:	N/A
% Shotcrete of Slope Surfacing:	N/A
Other Hard Surface of Slope Surfacing:	N/A



**PHOTO**



6SE-D/R113

GENERAL VIEW



## BASIC INFORMATION

Location: CASTLE PEAK ROAD - TING KAU  
Registration Date: 27-08-1999  
Ranking Score (NPRS): 0 (EI)  
Date of Formation: pre-1977  
Date of Construction/ Modification:  
Data Source: EI (HyD)  
Approximate Coordinates: Easting : 826505    Northing : 825581

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with moderate traffic density  
Distance of Facility from Crest (m): 0  
Facility at Toe: Residential building  
Distance of Facility from Toe (m): 4  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

(1)    Max. Height (m): 1.8    Length (m): 23    Average Angle (deg): 35

## WALL PART

(1)    Max. Height (m): 4    Length (m): 23    Face Angle (deg): 78

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0    Government Feature    Party: HyD    Agent: HyD    Land Cat.: 5b(iii)    Reason Code: 56    MR Endorsement Date: 18-02-2008

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 04-12-2018  
Data Source: EI (HyD)  
Slope Part Drainage: (1)    Position: Toe    Size(mm): 225  
Wall Part Drainage: (1)    Position: Crest    Size(mm): 225  
(2)    Position: Downpipe    Size(mm): 225  
(3)    Position: Toe    Size(mm): 200

## SLOPE PART

**Slope Part (1)**

Surface Protection (%): Bare: 0 Vegetated: 100 Chunam: 0 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**

(1) Utilities Type: Water Main Size(mm): 300 Location: On crest Remark: N/A

**CHECKING STATUS INFORMATION**

Tagmark: SCS\_5715 Part: 0 Checking Status: Feature modified/upgraded to current standard Checking Certificate No.: GEO/MW 008/2007

**BACKGROUND INFORMATION**

GIU Cell Ref.: N/A  
Map Sheet Reference (1:1000): 6SE-18D  
Aerial Photos: N/A  
Nearest Rainuage Station (Station Number): ()  
Data Collected On: 04-12-2018  
Date of Construction, Subsequent Modification and Demolition: N/A  
Related Reports/Files or Documents: N/A  
Remarks: N/A  
Follow Up Actions: N/A  
DH-Order (To Be Confirmed with Buildings Department): None  
Advisory Letter (To Be Confirmed with Buildings Department): None  
LPMIS: None

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

Upgraded by:

Prescriptive Design Using GEO Report No. 56: N/A

Non-prescriptive Design Including Conventional Design: Yes

Improved by:

Type 1 / Type 2 Prescriptive Measures: N/A

Type 3 Prescriptive Measures (not up to upgrading standard): N/A

Actual Completion Date: 03-11-2006

## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: N/A

Section No: 1-1

Height(m):

Type of Toe Facility: Residential building

Distance from Toe(m): 4

Type of Crest Facility: Road/footpath with moderate traffic density

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A





## ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D:	N/A
Action By:	N/A
Further Study:	
Action By:	N/A

## OTHER EXTERNAL ACTION

Check / repair Services:	
Action By:	N/A
Non-routine Maintenance:	
Action By:	N/A

**PHOTO**









# SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

## Slope Checking Status

Name	Value
SCS ID	SCS_5715
SCS Feature	6SE-D/FR 203
SCS Part	0
SCS Status	5
Checking Status	Feature modified/upgraded to current standard
Check Cert	GEO/MW 008/2007
Feature Remark	N/A
Reviewer	KONG KA FAI
GEO Reply	2007/02/12
Last Update	23-12-2005
Easting	826496
Northing	825588
-----	-----
File Ref	GCMW 2/E1/6SE-D/FR203
ERKS File Ref	MW-30-2025-1-6SE-D/FR203
File Title	EMP (2003-2007) of Roadside Features in NT West for slope 6SE-D/FR203 (Agreement No. CE13/2003(GE))
Project Type	Public
File Ref Image	N/A

## BASIC INFORMATION

Location: No. 311-313 Castle Peak Road, Ting Kau  
Registration Date: 16-03-1998  
Ranking Score (NPRS): 0 (EI)  
Date of Formation: pre-1977  
Date of Construction/ Modification: 31-05-2010  
Data Source: AP  
Approximate Coordinates: Easting : 826470    Northing : 825599

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Open car park  
Distance of Facility from Crest (m): 0  
Facility at Toe: Residential building  
Distance of Facility from Toe (m): 3.5  
Consequence-to-life Category: 1  
Remarks: N/A

## SLOPE PART

(1)    Max. Height (m): 3.3    Length (m): 13    Average Angle (deg): 45

## WALL PART

(1)    Max. Height (m): 4.3    Length (m): 13    Face Angle (deg): 75

## MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0    Mixed Feature    Party: Lands D    Agent: Lands D    Land Cat.: 1,5b(vi)    Reason Code: 59    MR Endorsement Date: 29-04-2014  
(2) Sub Div.: 0    Mixed Feature    Party: STT1139TW    Agent: N/A    Land Cat.: 1,5b(vi)    Reason Code: 3    MR Endorsement Date: 29-04-2014

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 08-02-2013  
Data Source: AP  
Slope Part Drainage: (1)    Position: Berm    Size(mm): 225  
Wall Part Drainage: N/A

## SLOPE PART

Slope Part (1)  
Surface Protection (%): Bare: 0    Vegetated: 0    Chunam: 0    Shotcrete: 100    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): 40    Spacing (m): 1.5





## WALL PART

Wall Part (1)

Type of Wall: Wall Material: Concrete Wall Location: Retaining wall with level platform

Berm: No. of Berms: 2 Min. Berm Width (m): 2.5

Weepholes: Size (mm): 50 Spacing (m): 1.5

## SERVICES

N/A

## CHECKING STATUS INFORMATION

Tagmark: SCS\_10491 Part: 0 Checking Status: Feature modified/upgraded to current standard Checking Certificate No.: GEO/MW 007/2013

## BACKGROUND INFORMATION

GIU Cell Ref.: 6SE18D4

Map Sheet Reference (1:1000): 6SE-18D

Aerial Photos: Y08950-1 (1963),

Nearest Rainguage Station (Station Number): Emmanuel Primary School, 13 Miles, Castle Peak Road(N10)

Data Collected On: 08-02-2013

Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1963 After: N/A

Related Reports/Files or Documents: File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
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 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW2/B2/200  
 File/Report: Development Ref. No.: GCMW5/3/16 PT.14f30,32 PT.5f112  
 File/Report: Development Ref. No.: GCMW5/3/16 PT.14f30,32 PT.5f112  
 File/Report: LA Ref. No.: GCMW5/3/16PT14f30,32 PT5f112  
 File/Report: LA Ref. No.: GCMW5/3/16PT14f30,32 PT5f112  
 File/Report: LWC Ref. No.: GC4/1/2-5f7A  
 File/Report: LWC Ref. No.: GC4/1/2-5f7A

Remarks: N/A

Follow Up Actions: N/A

DH-Order (To Be Confirmed with Buildings Department): None

Advisory Letter (To Be Confirmed with Buildings Department): None

LPMIS: Agreement No.: CE47/2005 Report No.: S2R18/2008

## ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 25/09/2025)

Upgraded by:

Prescriptive Design Using GEO Report No. 56: N/A

Non-prescriptive Design Including Conventional Design: Yes

Improved by:

Type 1 / Type 2 Prescriptive Measures: N/A

Type 3 Prescriptive Measures (not up to upgrading standard): N/A

Actual Completion Date: 31-05-2010

## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Residential building

Distance from Toe(m): 3.5

Type of Crest Facility: Open car park

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

### ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

### OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:

Action By: N/A

### eLPMIS

LPM/LPMit Details Report

LPM Study Feature No.: 6SE-D/FR 57

Location: TING KAU, NO. 311-313 CASTLE PEAK ROAD

District Council: Tsuen Wan

Maintenance Responsibility (At the Time of Selection): Mixed

Responsible Party for Maintenance of Government Lands D  
Portion:  
Private Lot No.: STT1139TW

**LPM/LPMit Study**

Agreement No.: CE47/2005  
Study Type: Stage 2 Study  
Consultant: Maunsell Geotechnical Services Ltd.  
GEO Managing Section / Engineer: SS / SS3  
Study Status: Study completed  
Design Approach: N/A  
Option Assessment Accepted: N/A  
Study Report No.: S2R18/2008  
Programme / Actual Commencement: 23-01-2007  
Programme / Actual Completion: 07-09-2008  
Report Recommendation (For Stage 2 Study): No action required  
District Check Status: Exempted from checking  
Checking Certificate No.: N/A  
GEO Engineer's Remarks: N/A

**LPM/LPMit Works**

Works Contract No.: N/A  
GEO Managing Section / Engineer: N/A / N/A  
Contractor: N/A  
Progress Status: N/A  
Reason of Study Termination / Works Deletion (If Necessary): N/A  
Forecast Commencement Date: N/A  
Forecast Completion Date: N/A  
Completion Cert. Issued: N/A  
Site Handed Over to Maintenance Department on: N/A  
Estimated Cost for Upgrading (HK\$M): N/A  
Maintenance Manual No.: N/A  
Actual Works: N/A  
No. of Tree Felled: N/A  
No. of Tree Planted (Incl. Transplant): N/A  
% Bare of Slope Surfacing: N/A  
% Vegetated of Slope Surfacing: N/A  
% Shotcrete of Slope Surfacing: N/A  
Other Hard Surface of Slope Surfacing: N/A

PHOTO









# SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

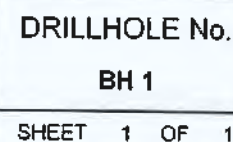
## Slope Checking Status

Name	Value
SCS ID	SCS_10491
SCS Feature	6SE-D/FR 57
SCS Part	0
SCS Status	5
Checking Status	Feature modified/upgraded to current standard
Check Cert	GEO/MW 007/2013
Feature Remark	GEO accepted the design report for feature no. 6SE-D/FR57 & 6SE-D/R158 on 10.2.2010.
Reviewer	CHAN HUNG WAI, CORN
GEO Reply	2013/02/04
Last Update	07-02-2013
Easting	826465
Northing	825607
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File Ref	GCMW 2/E1/6SE-D/FR57
ERKS File Ref	MW-30-2025-1-6SE-D/FR57
File Title	Ag No. CE31/2006(GE), EMP, Design Report for feature no. 6SE-D/FR57 & 6SE-D/R158, No. 311-313, Castle Peak Road, Ting Kau
Project Type	Public
File Ref Image	Open Image

## **Appendix E**

Extraction of Previous GI Records









# VIBRO (H.K.) LTD.

## SITE INVESTIGATION DEPARTMENT

### COREHOLE RECORD

COREHOLE No.  
**HC 1**

SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
METHOD	Rotary	CO-ORDINATES	E 826509.87	WORKS ORDER No.	GE/2004/06.40
MACHINE & No.	HD 9		N 825575.71	DATE	30/11/2004 to 01/12/2004
FLUSHING MEDIUM	Water	GROUND LEVEL	+ 12.18 mPD	ORIENTATION/DIP	030°/00°

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	F.I. Depths	Test Depths	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
30/11/2004	NW			100							No. Type Depth	+12.18	0.00			Reddish grey (10R 6/1), GRANITE MASONRY BLOCKS. (MASONRY WALL)
				69							NW 0.14	+12.18	0.14			Grey (N 5), angular COBBLES sized cement mortar with some angular to subangular fine to coarse gravel sized rock fragments. (RETAINING WALL)
				50							NW 0.50	+12.18	0.50			Greyish brown (2.5Y 5/2), subangular COBBLES (MDT). (COLLUVIUM)
											NW 0.70	+12.18	0.70			
				87							1 NW 1.15	+12.18	1.20			Firm, brown (7.5YR 5/4), sandy SILT with occasional angular to subangular fine to medium gravel sized rock fragments. (COLLUVIUM)
				78							NW 1.50					Greyish brown (2.5Y 5/2), subangular BOULDERS (MDT) sized up to 250 mm with some subangular cobbles and some subangular fine to coarse gravel sized rock fragments. (COLLUVIUM)
				100							NW 2.00	+12.18	2.00			Firm, Greyish brown (2.5Y 5/2), sandy SILT with occasional angular to subangular fine gravel sized rock fragments. (COLLUVIUM)
											2 • 2.65					
											2.70					
30/11/2004 01/12/2004				83							3 • 3.15	+12.18	3.20			Greyish brown (2.5Y 5/2), subangular COBBLES (MDT) with some angular to subangular fine to coarse gravel sized rock fragments. (COLLUVIUM)
											NW 3.20	+12.18	3.44			Firm, Brown (7.5YR 5/4), slightly sandy SILT with occasional subangular fine gravel sized rock fragments. (COLLUVIUM)
											4 • 3.65	+12.18	3.70			Greyish brown (2.5Y 5/2), silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized rock fragments and occasional subangular cobbles (MDT). (COLLUVIUM)
											4.70					
				80							5 • 4.15	+12.18	4.20			Greyish brown (2.5Y 5/2), subangular COBBLES (MDT) with some angular to subangular fine to coarse gravel sized rock fragments. (COLLUVIUM)
											NW 4.20	+12.18	4.40			Greyish brown (2.5Y 5/2), very silty fine to coarse SAND with much angular to subangular fine to medium gravel sized rock fragments. (COLLUVIUM)
											8 • 4.65	+12.18	4.70			Firm, Brown (7.5YR 5/4), slightly sandy SILT with occasional subangular fine gravel sized rock fragments. (COLLUVIUM)
											4.70					
											7 • 5.15	+12.18	5.20			Extremely weak, greyish brown, completely decomposed coarse ash crystal TUFF. (Sandy SILT with occasional angular to subangular fine gravel)
											8 • 5.65					End of Corehole at 6.20m.
											5.70					
01/12/2004	NW	6.20									10 • 6.15	+12.18	6.20			
											6.20					

- Small disturbed sample
- Large disturbed sample
- SPT liner sample
- U64 undisturbed sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Environmental Sample
- ▲ Water sample
- Piezometer tip
- Standpipe tip
- Standard penetration test
- Pressuremeter test
- Water absorption test or Permeability test
- Sonic televiewer test
- Impression packer test
- In-situ vane shear test

LOGGED T. C. Yip

DATE 18/12/2004

CHECKED G. Whatmore

DATE 22/12/2004

REMARKS





# VIBRO (H.K.) LTD. SITE INVESTIGATION DEPARTMENT

COREHOLE No.  
HC 2

## COREHOLE RECORD

SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
METHOD	Rotary	CO-ORDINATES	E 826502.98	WORKS ORDER No.	GE/2004/06.40
MACHINE & No.	HD 9		N 825579.84	DATE	01/12/2004 to 02/12/2004
FLUSHING MEDIUM	Water	GROUND LEVEL	+ 12.15 mPD	ORIENTATION/DIP	030°/00°

Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index	F.I. Depths	Test Depths	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
01/12/2004	NW										No. Type Depth	+12.15	0.00			Reddish grey (10R 6/1), GRANITE MASONRY BLOCKS. (MASONRY WALL)
											NW		0.50			Brown (7.5YR 5/4) and greyish brown (2.5Y 5/2), slightly sandy SILT with occasional subangular fine gravel sized rock fragments. (COLLUVIUM)
											1 •	0.95 1.00				
											2 •	1.45 1.50	+12.15	1.50		Greyish brown (2.5Y 5/2), sandy SILT with some subangular fine gravel sized rock fragments. (COLLUVIUM)
											3 •	1.95 2.00				
											4 •	2.45 2.50				
											5 •	2.95 3.00	+12.15	3.00		Greyish brown (2.5Y 5/2), sandy angular to subangular fine to coarse GRAVEL (MDT). (COLLUVIUM)
											NW	3.25	+12.15	3.25		Greyish brown (2.5Y 5/2), very silty fine to coarse SAND with some angular to subangular fine gravel sized rock fragments. (COLLUVIUM)
											6 •	3.45 3.50				
											7 •	3.95 4.00	+12.15	4.00		Greyish brown (2.5Y 5/2), sandy subangular to subrounded fine to coarse GRAVEL (MDT) with occasional subangular cobbles (MDT). (COLLUVIUM)
											8 •	4.45 4.50 4.64	+12.15	4.64		Firm, greyish brown (2.5Y 5/2), sandy SILT with some subangular to subrounded fine to coarse gravel sized rock fragments. (COLLUVIUM)
											9 •	4.95 5.00 5.16	+12.15	5.00		Greyish brown (2.5Y 5/2), sandy angular to subangular fine to coarse GRAVEL (MDT). (COLLUVIUM)
											NW	5.16	+12.15	5.16		Extremely weak, greyish brown, completely decomposed coarse ash crystal TUFF. (Slightly sandy SILT with occasional angular to subangular fine gravel)
											10 •	5.45 5.50				
											11 •	5.95 6.00	+12.15	6.00		End of Corehole at 6.00m.

- Small disturbed sample
- Large disturbed sample
- SPT liner sample
- U64 undisturbed sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Environmental Sample
- Water sample
- Piezometer tip
- Standpipe tip
- Standard penetration test
- Pressuremeter test
- Water absorption test or Permeability test
- Sonic televiwer test
- Impression packer test
- In-situ vane shear test

LOGGED	T. C. Yip
DATE	18/12/2004
CHECKED	G. Whatmore
DATE	22/12/2004

### REMARKS



REMARKS



# VIBRO (H.K.) LTD.

## SITE INVESTIGATION DEPARTMENT

### COREHOLE RECORD

COREHOLE No.  
IC 2  
SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
METHOD	Rotary	CO-ORDINATES	E 826503.41	WORKS ORDER No.	GE/2004/06.40
MACHINE & No.	HD 3		N 825579.64	DATE	04/12/2004 to 04/12/2004
FLUSHING MEDIUM	Water	GROUND LEVEL	+ 12.17 mPD	ORIENTATION/DIP	030°/40°

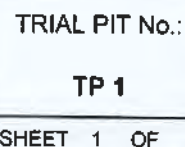
Drilling Progress	Casing Depth/Size	Water Depth (m)	Water Returns %	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	F.L. Depths	Test Depths	Tests	Samples	Reduced Level (mPD)	Depth (m)	Legend	Grade	Description
04/12/2004	NW			75							No Type Depth	+12.17	0.00			
											NW	+11.96	0.30			Reddish grey (10R 8/1), angular COBBLES (SDG cement mortar) with some subangular coarse gravel sized rock fragments and occasional concrete fragments. (MASONRY WALL)
											1 • 0.85 0.50	+11.85	0.50			Greyish brown (2.5Y 5/2), silty fine to coarse SAND with some angular to subangular fine to medium gravel sized rock fragments. (COLLUVIUM)
											2 • 0.85 1.00					Firm, greyish brown (2.5Y 5/2), sandy SILT with occasional subangular fine gravel sized rock fragments. (COLLUVIUM)
											3 • 1.45 1.50	+11.21	1.50		V	Extremely weak, greyish brown, completely decomposed coarse ash crystal TUFF. (Silty fine to coarse SAND with some angular fine gravel)
											4 • 1.95 2.00					
											5 • 2.45 2.50					
											6 • 2.85 3.00	+10.24	3.00		V	Extremely weak, greyish brown, completely decomposed coarse ash crystal TUFF. (Sandy SILT with occasional subangular fine gravel)
											7 • 3.45 3.50					
											8 • 3.95 4.00					
											9 • 4.45 4.50					
											10 • 4.95 5.00	+8.96	5.00		III	Moderately strong to strong, grey, dappled brown, spotted green and dark green, moderately decomposed coarse ash crystal TUFF.
				90	56	52	8.3	5.00			NW					Joints are very closely spaced to closely spaced, rough planar and rough stepped, extremely narrow to very narrow, manganese stained and iron stained.
							> 20	5.12			NW					End of Corehole at 6.00m.
							7.4	5.33								
							> 20	5.60								
04/12/2004	NW	6.00		92	44	20	6.7	5.70			NW	+8.31	6.00			

- Small disturbed sample
- Large disturbed sample
- SPT liner sample
- U64 undisturbed sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Environmental Sample
- Water sample
- Piezometer tip
- Standpipe tip
- Standard penetration test
- Pressuremeter test
- Water absorption test or Permeability test
- Sonic televiewer test
- Impression packer test
- In-situ vane shear test

LOGGED T. C. Yip  
DATE 18/12/2004  
CHECKED G. Whatmore  
DATE 22/12/2004

REMARKS









# VIBRO (H.K.) LTD.

## SITE INVESTIGATION DEPARTMENT

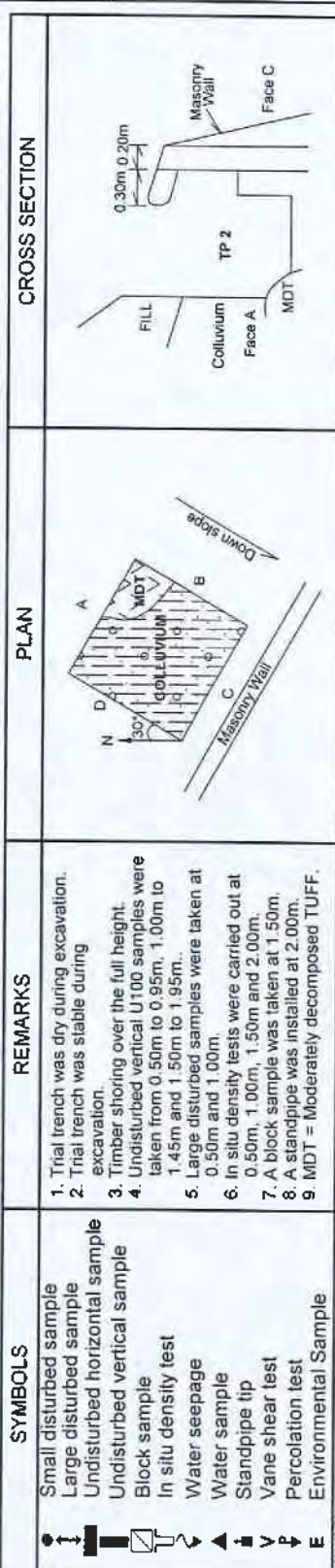
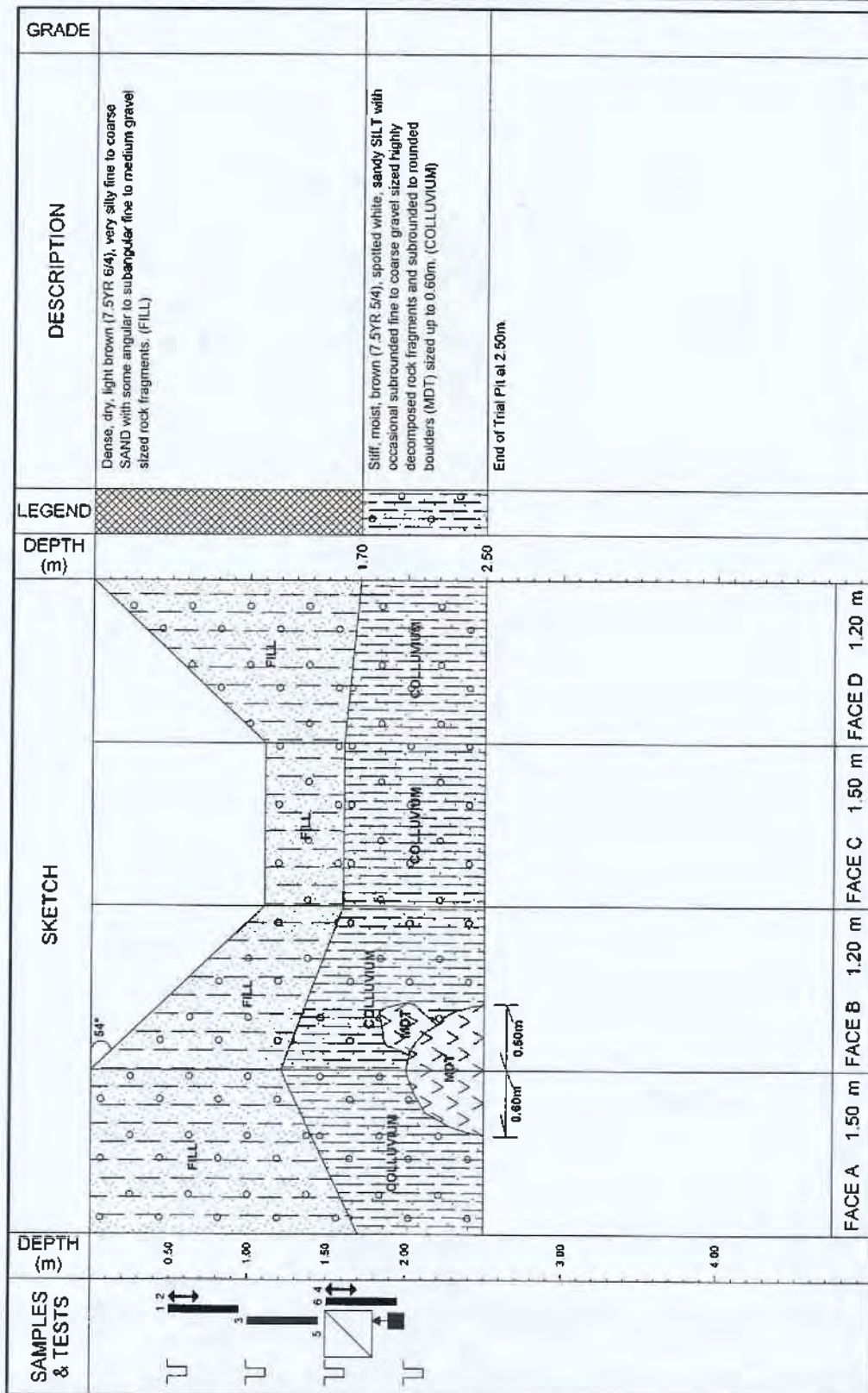
### TRIAL TRENCH RECORD

TRIAL TRENCH No.:

TP 2

SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
EXCAVATION STARTED ON	30/11/2005	CO-ORDINATES	E 826506.88	WORKS ORDER No.	GE/2004/06.40
EXCAVATION COMPLETED ON	04/12/2004		N 825578.99	LOGGED BY	T. C. Yip
				DATE	14/12/2004
BACKFILLED ON	17/12/2004	GROUND LEVEL	+ 14.54 mPD	CHECKED BY	G. Whatmore
				DATE	15/12/2004







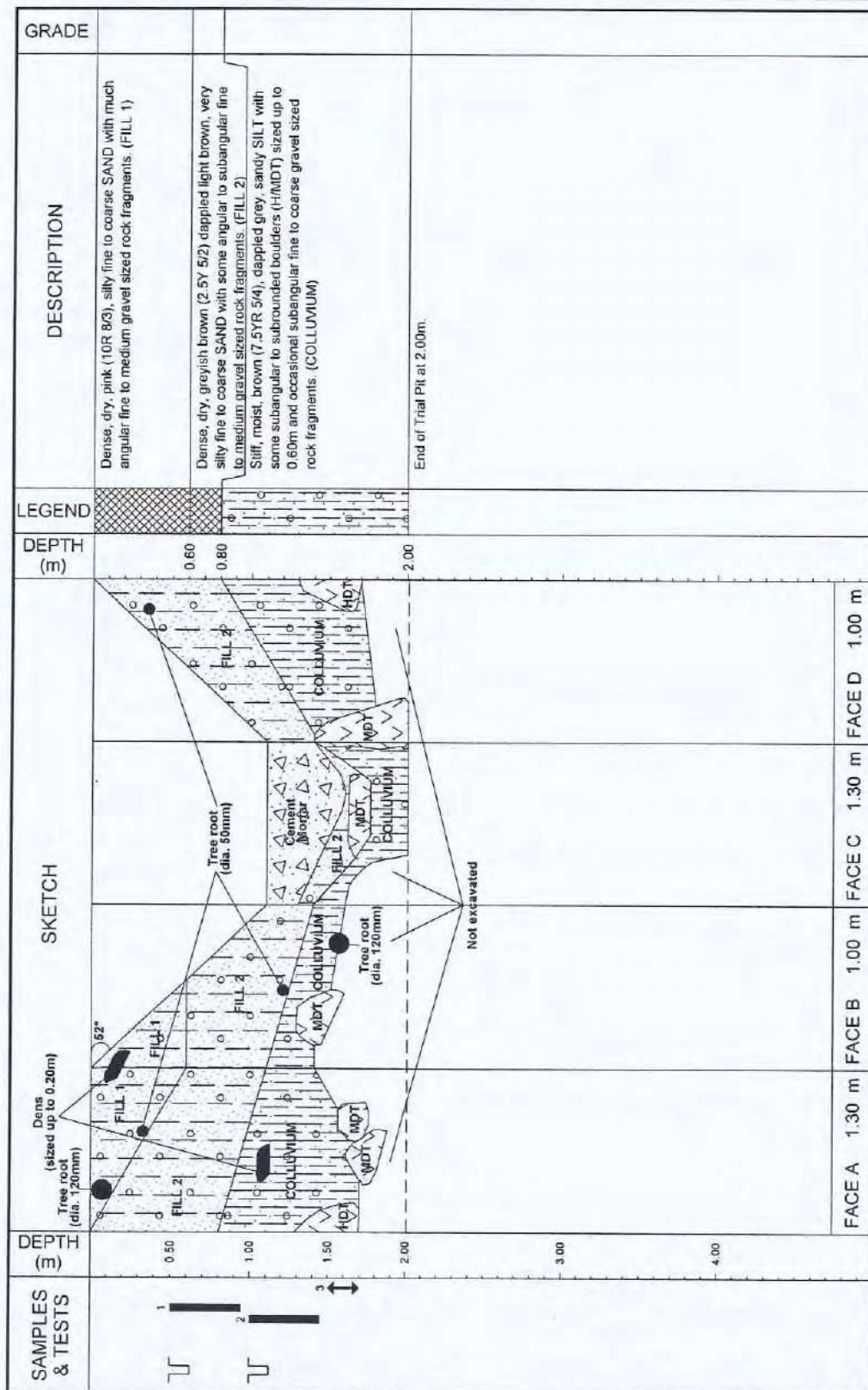
# VIBRO (H.K.) LTD.












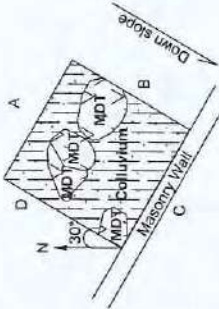
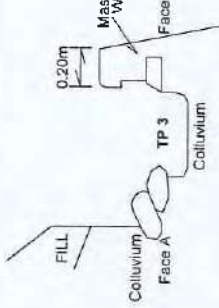
## SITE INVESTIGATION DEPARTMENT

### TRIAL TRENCH RECORD

TRIAL TRENCH No.:  
**TP 3**  
SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
EXCAVATION STARTED ON	02/12/2004	CO-ORDINATES	E 826512.16	WORKS ORDER No.	GE/2004/06.40
EXCAVATION COMPLETED ON	06/12/2004		N 825575.52	LOGGED BY	T. C. Yip
				DATE	14/12/2004
BACKFILLED ON	18/12/2004	GROUND LEVEL	+ 14.46 mPD	CHECKED BY	G. Whatmore
				DATE	15/12/2004



SYMBOLS	REMARKS	PLAN	CROSS SECTION
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>Small disturbed sample Large disturbed sample Undisturbed horizontal sample Undisturbed vertical sample Block sample In situ density test Water seepage Water sample Standpipe tip Vane shear test Percolation test Environmental Sample</div>	<div>1. Trial trench was dry during excavation. 2. Trial trench was stable during excavation. 3. Timber shoring over the full height. 4. Undisturbed vertical U100 samples were taken from 0.50m to 0.95m and 1.00m to 1.45m. 5. A large disturbed sample was taken at 1.50m. 6. In situ density tests were carried out at 0.50m and 1.00m. 7. MDT = Moderately decomposed TUFF.</div>		





# VIBRO (H.K.) LTD.

## SITE INVESTIGATION DEPARTMENT

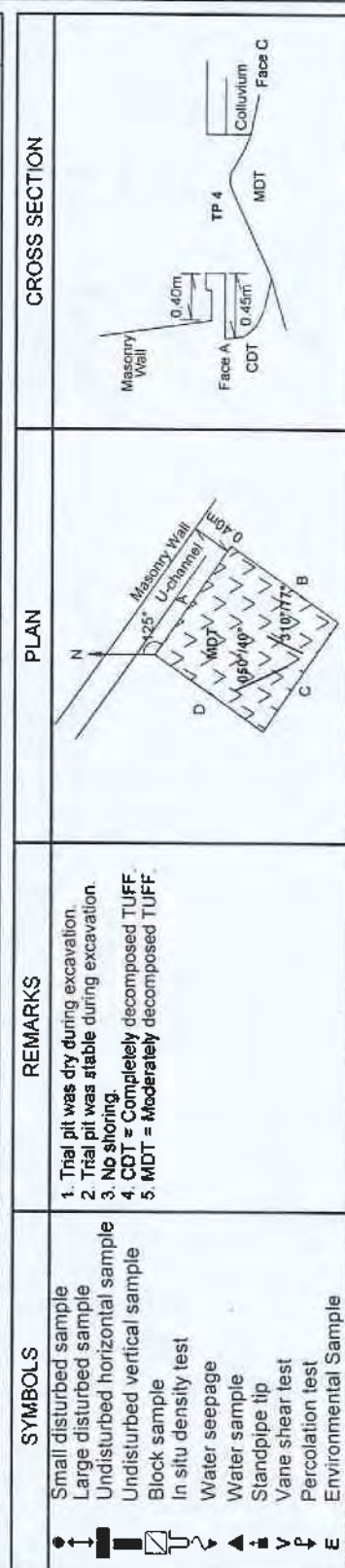
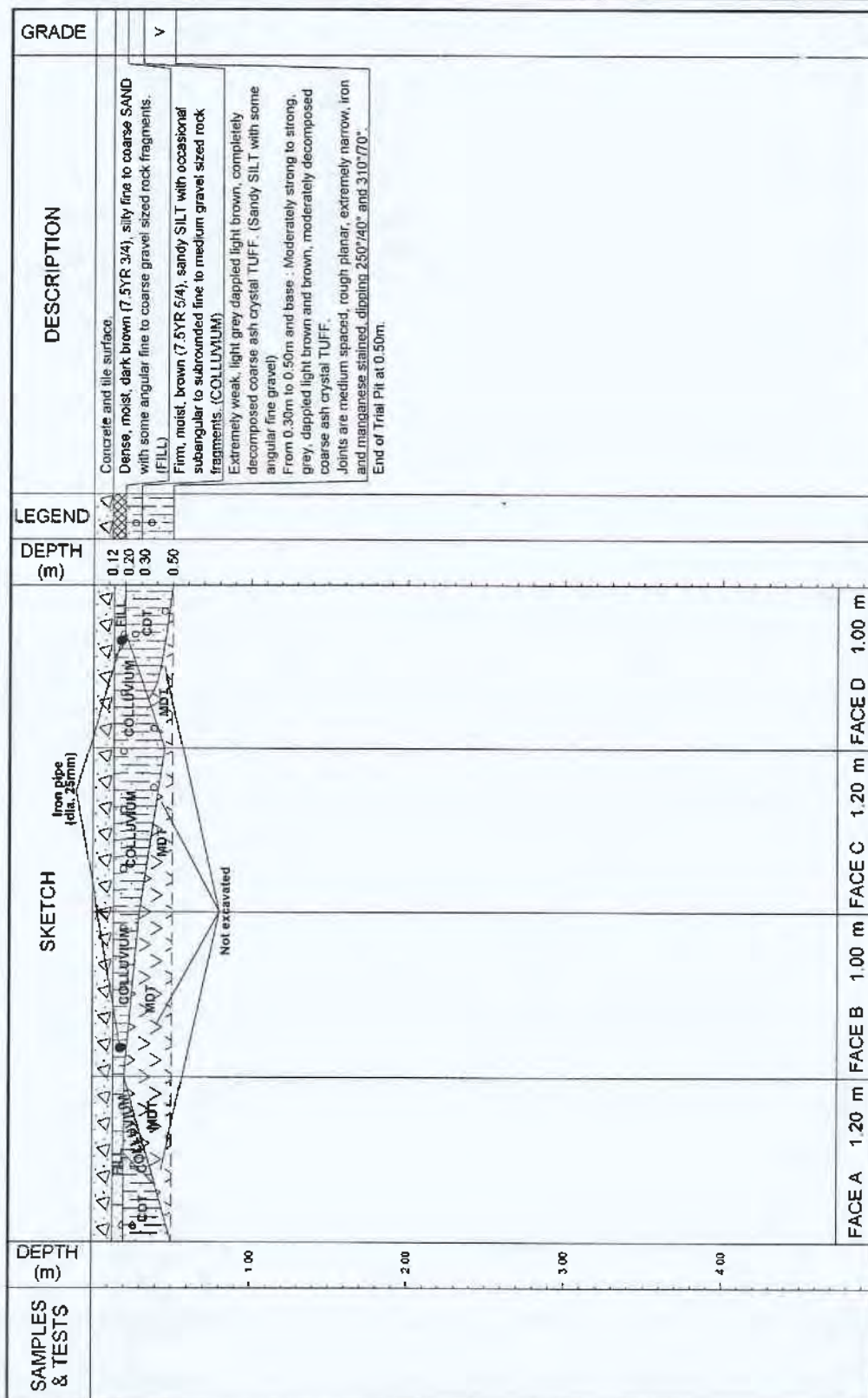
### TRIAL PIT RECORD

TRIAL PIT No.:

TP 4

SHEET 1 OF 1

LOCATION	Rose Villa, 309 Castle Peak Road, Ting Kau, N. T.			CONTRACT No.	GE/2004/06
EXCAVATION STARTED ON	28/12/2004	CO-ORDINATES	E 826506.90	WORKS ORDER No.	GE/2004/06.40
EXCAVATION COMPLETED ON	29/12/2004		N 825576.33	LOGGED BY	T. C. Yip
				DATE	03/01/2005
BACKFILLED ON	15/01/2005	GROUND LEVEL	+ 11.26 mPD	CHECKED BY	G. Whatmore
				DATE	04/01/2005





GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.  
GROUND INVESTIGATION DEPARTMENT

HOLE NO. **DH3**

SHEET **1** OF **5**

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT **Ting Kau and Sham Tseng Village Sewerage Schemes Ground Investigation**

METHOD **Rotary Cored**

CO-ORDINATES

WORKS ORDER NO. **GE/2001/14.57**

MACHINE & NO. **DR128**

**E 826446.58**

DATE FROM **18/02/2003** TO **22/02/2003**

**N 825668.57**

FLUSHING MEDIUM **Air Foam**

ORIENTATION **Vertical**

GROUND LEVEL **4.98 mPD**

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
18/02/2003	PX							1	4.48	0.50			Dark brown (7.5YR 3/3) spotted yellowish brown, silty fine to coarse SAND with much angular fine to coarse gravel sized concrete and moderately strong rock fragments. (FILL)
								2		1.00			Brown (7.5YR 5/3) spotted orange and dark grey, silty fine to coarse SAND with much angular to subangular fine to coarse gravel sized brick, cement grout and occasional moderately strong rock fragments. (FILL)
								3		1.50			
								4	2.98	2.00			
								T2101		2.70			Greenish grey (GLE1 5/1) dappled yellowish brown and white, angular to subangular COBBLE with some fine to coarse gravel and occasional boulder sized quartz and strong to moderately strong granite and tuff fragments. (FILL)
	PX 3.40 HX							T2101		3.40			From 2.70m to 3.03m : Boulder sized strong tuff fragments.
								T2101		4.00			
								5	0.98	4.00			From 3.90m to 4.00m : Silty fine to coarse sand with some angular fine to medium gravel sized quartz and rock fragments.
								6					Yellowish brown (10YR 5/6) spotted white and green, silty fine to coarse SAND with some angular fine gravel sized quartz and rock fragments. (FILL)
								7	-0.12	5.10			Olive brown (2.5YR 4/4), silty clayey fine to coarse SAND with much subangular to subrounded fine to coarse gravel sized quartz and strong tuff fragments. (FILL)
								8					
							18,23 19,15,18,14 N=66	9	-1.22	6.20		V	Extremely weak, yellowish brown (10YR 5/4) mottled white and black, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some angular fine gravel sized quartz fragments)
								10		6.65			
								11	-2.12	7.10		V	Extremely weak, yellowish brown (10YR 5/5) mottled white and black, completely decomposed, fine to medium grained GRANITE with fractured quartz veins. (Silty fine to coarse SAND with some angular fine to coarse gravel sized quartz fragments)
								12					
								13	-3.22	8.20		V	Extremely weak, yellowish brown (10YR 5/5) dappled white, completely decomposed, fine to medium grained GRANITE. (Firm, sandy silty CLAY with occasional angular fine gravel sized quartz fragments)
								14					
								15	-4.32	9.30		V	Extremely weak, yellowish brown (10YR 5/4) spotted white, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with occasional angular fine gravel sized
							9.8 12,14,21,27 N=74	16		9.75			

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U75 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- △ WATER SAMPLE
- ▲ PIEZOMETER TIP
- STANDPIPE
- ⊥ STANDARD PENETRATION TEST
- ⊥ PERMEABILITY TEST
- ⊥ IMPRESSION PACKER TEST
- ∇ IN-SITU VANE SHEAR TEST
- ⊥ PACKER TEST

LOGGED **K.M. To**

DATE **24/02/2003**

CHECKED **James Lu**

DATE **25/02/2003**

REMARKS

1. Piezometer tip was installed at a depth of 29.40m with piezometer bucket (7 nos.) from the depth of 0.50m to 3.50m at 0.50m intervals.





GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.  
GROUND INVESTIGATION DEPARTMENT

HOLE NO.

DH3

SHEET 2 OF 5

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT Ting Kau and Sham Tseng Village Sewerage Schemes Ground Investigation

METHOD Rotary Cored

CO-ORDINATES

WORKS ORDER NO. GE/2001/14.57

MACHINE & NO. DR128

E 826446.58

DATE FROM 18/02/2003 TO 22/02/2003

N 825568.57

FLUSHING MEDIUM Air Foam

ORIENTATION Vertical

GROUND LEVEL 4.88 mPD

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
10	HX		90					17	-5.22	10.20		V	quartz fragments) Extremely weak, brown (10YR 4/3) mottled white and black, completely decomposed, fine to medium grained GRANITE. (Firm, slightly sandy CLAY with much angular fine to coarse gravel sized quartz fragments)
11			91	0	0	NI		18	-6.32	11.30		V/V	Extremely weak to very weak, brown (10YR 5/3) dappled white, completely to highly decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some fine to medium gravel sized quartz and rock fragments)
12			95			NA		19	-7.02	12.00		V	From 11.30m to 11.50m : With much subangular fine to coarse gravel sized quartz fragments. Extremely weak, yellowish brown (10YR 5/8) mottled white, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some angular fine gravel sized quartz and rock fragments)
13							4.7 8.11, 13.15 14.47	20		13.10			
14								21		13.55			
15			92					22		14.00			
16								23	-9.02	15.10		V	Extremely weak to very weak, yellowish brown (10YR 5/5) spotted white and green, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some angular fine gravel sized quartz and rock fragments)
17								24		15.50			
18							20.23 25.27, 34, 142.57mm (100bls/250mm)	25		16.00			
19			92					26		17.10			
20								27		17.37		V	Extremely weak to very weak, yellowish brown (10YR 5/4) mottled white, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with occasional subangular fine gravel sized quartz fragments)
21							20.21/75mm 47.53/45mm (100bls/120mm)	28	-12.12	18.00		V	Extremely weak to very weak, yellowish brown (10YR 5/5) spotted white and green, completely decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some angular fine gravel sized quartz and rock fragments)
22			95					29		19.10		V	Extremely weak, yellowish brown (10YR 5/4) mottled white, completely decomposed, fine to medium grained GRANITE. (Slightly clayey, silty fine to coarse SAND with occasional fine gravel sized quartz and feldspar fragments)
23								30					
24								31	-13.02				
25								32					
26								33	-14.12				
27													
28													
29													
30													
31													
32													
33													

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IMPRESSION PACKER TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST

LOGGED K.M. To  
DATE 24/02/2003  
CHECKED James Lu  
DATE 25/02/2003

REMARKS



GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.  
GROUND INVESTIGATION DEPARTMENT

HOLE NO. **DH3**

SHEET **3** OF **5**

DRILLHOLE RECORD

CONTRACT NO. **GE/2001/14**

PROJECT **Ting Kau and Sham Tsang Village Sewerage Schemes Ground Investigation**

METHOD **Rotary Cored**

CO-ORDINATES

WORKS ORDER NO. **GE/2001/14.57**

MACHINE & NO. **DR128**

**E 826446.58**

DATE FROM **18/02/2003** TO **22/02/2003**

**N 825568.57**

FLUSHING MEDIUM **Air Foam**

ORIENTATION **Vertical**

GROUND LEVEL **4.98 mPD**

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
18/02/2003 20/02/2003	HX	1.80m at 18:00 2.40m at 08:00											See sheet 2 of 5 for details.
21			24	0	0	NI		34 150/60mm 100/70mm (100lbs/70mm)	-15.22	20.20		V/IV	Extremely weak to very weak, yellowish brown (10YR 5/4) spotted white, completely to highly decomposed, fine to medium grained GRANITE. (Silty fine to coarse SAND with some subangular fine to medium gravel sized quartz and rock fragments)
22			50	25	0	15.0		35 T2101	-15.92	20.90		III/IV	Moderately weak, yellowish brown spotted white, moderately to highly decomposed, fine to medium grained GRANITE. Joints are very closely spaced, smooth undulating and rough planar, extremely narrow to very narrow, iron and manganese oxide stained, soil (<1mm thick) infilled, locally kaolin (<0.5mm thick) infilled, dipping at 0° to 10°, 10° to 20° and 50° to 60°.
23			80					36 T2101	-16.62	21.60		V/IV	From 20.90m to 21.60m: Highly fractured with some medium gravel sized quartz fragments from 20.90m to 21.05m.
24			30	0	0	NI		37 T2101	-17.22	22.20		III/IV	From 21.60m to 22.20m: No core recovered, assumed to be completely to highly decomposed granite.
25			40	0	0	NI		38 T2101	-17.62	22.60		V/IV	No core recovered, assumed to be completely to highly decomposed GRANITE.
26			95					39 T2101	-18.02	23.00		IV/V	Weak to very weak, yellowish brown (10YR 5/5) spotted brown and white, highly to completely decomposed, fine to medium grained GRANITE. (Slightly sandy angular fine to coarse GRAVEL with some cobble sized moderately weak rock fragments)
27								40 50/30mm 100/50mm (100lbs/50mm)	-18.12	24.10		III/IV	Moderately weak, yellowish brown, locally spotted white, moderately to highly decomposed, highly fractured, fine to medium grained GRANITE.
28								41 T2101	-18.24	24.22		V/IV	From 24.12m to 24.22m: With some subangular coarse gravel sized quartz fragments.
29								42 T2101	-18.52	24.50		III/IV	From 24.22m to 24.50m: No core recovered, assumed to be completely to highly decomposed granite.
30								43 T2101	-18.64	24.62		V/IV	No core recovered, assumed to be completely to highly decomposed GRANITE.
								44 T2101	-18.82	24.80		V/IV	Very weak, yellowish brown (10YR 5/4) mottled brown, completely to highly decomposed, fine to medium grained GRANITE. (Slightly silty fine to coarse SAND with much angular fine to coarse gravel sized weak and moderately weak rock fragments)
								45 T2101	-19.82	25.80			From 24.80m to 25.80m: With some cobble sized moderately weak rock fragments.
								46 T2101	-24.52	29.90			

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U75 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- △ WATER SAMPLE
- ▲ PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IMPRESSION PACKER TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST

LOGGED **K.M. To**  
DATE **24/02/2003**  
CHECKED **James Lu**  
DATE **25/02/2003**

REMARKS



GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.  
GROUND INVESTIGATION DEPARTMENT

HOLE NO.

DH3

SHEET 4 OF 5

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT Ting Kau and Sham Tseng Village Sewerage Schemes Ground Investigation

METHOD Rotary Cored

CO-ORDINATES

WORKS ORDER NO. GE/2001/14.57

MACHINE & NO. DR128

E 826446.58

N 825588.57

DATE FROM 18/02/2003 TO 22/02/2003

FLUSHING MEDIUM Air Foam

ORIENTATION Vertical

GROUND LEVEL 4.98 mPD

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
30	HX 30.30	1.90m at 18:00 2.50m at 08:00	88	0	0	NI		T2101	-25.07	30.05	+	V/IV	Extremely weak to very weak, brown (10YR 4/3) dappled white and mottled yellowish brown, completely to highly decomposed, fine to medium grained GRANITE. (Sandy silty CLAY with some angular to subangular fine to coarse gravel sized moderately strong rock fragments). No core recovered, assumed to be completely to highly decomposed GRANITE.
31			72	11	11	NI		T2101	-25.32	30.30	+	V/IV	
			98	0	0	NI		T2101	-25.97	30.95	+	V/IV	
			98	0	0	NI		T2101	-26.22	31.20	+	III	
32			97	14	0			T2101	-26.72	31.70	+	IV/II	Moderately strong, yellowish brown spotted green and white, moderately decomposed, sheared, fine to medium grained GRANITE. Joints are very closely to closely spaced, rough planar, extremely narrow, iron and manganese oxide stained, soil (<1mm thick) infilled, dipping at 20° to 30° and 60° to 90°.
			100	0	0			T2101		32.15	+	III/IV	From 30.84m to 30.95m: An 80° to 90° joint.
								T2101			+	IV	From 30.95m to 31.20m: No core recovered, assumed to be completely to highly decomposed granite.
33						>20		T2101	-28.39	33.37	+	III/IV	Strong to moderately strong, greyish green dappled pink, slightly to moderately decomposed, slightly chloritized, fine to medium grained GRANITE.
34			85	59	14	12.5		T2101			+	III	Joints are very closely spaced, smooth stepped and smooth undulating, extremely narrow, iron and manganese oxide stained, chlorite and calcite coated, dipping at 0° to 10°, 20° to 30° and 50° to 60°.
			94	75	38	6.2		T2101		34.10	+	III/IV	From 32.00m to 32.15m: Moderately weak and moderately to highly decomposed and highly fractured.
35			100	100	94	3.8		T2101		34.74	+	III	From 32.40m to 32.50m: Weak and highly decomposed.
36		2.00m at 18:00						T2101			+	II	From 32.50m to 32.95m: Sheared and chloritized.
37		2.45m at 08:00	100	100	93	1.4		T2101		36.15	+	III	From 32.73m to 32.85m: Moderately weak and moderately to highly decomposed.
						7.5		T2101			+	III	Strong, greyish pink dappled greyish green, spotted dark green and white, slightly sheared, locally chloritized, slightly decomposed, fine to medium grained GRANITE.
38		1.80m at 12:00	100	100	100	1.0		T2101		37.49	+	III/IV	Joints are closely to medium spaced, rough planar and rough undulating, locally slickensided undulating, extremely narrow to very narrow, chlorite and calcite coated, locally kaolin (<0.5mm thick) infilled, dipping at 10° to 20°, 20° to 30°, 40° to 50° and 60° to 70°.
								T2101	-33.55	38.53	+	II	From 33.37m to 33.55m: With calcite infilled sheared fabric, dipping at 60° to 70°.
39											+		From 33.55m to 33.85m: Chloritized and sheared.
40											+		From 33.85m to 34.08m: With some calcite infilled fractures dipping at 60° to 70°.
											+		From 34.08m to 34.15m: Moderately weak and moderately to highly decomposed.
											+		From 34.15m to 34.25m: Sheared.
											+		From 34.25m to 34.34m: Moderately strong and

- SMALL DISTURBED SAMPLE
- ▬ LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- ▨ U75 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- ▨ MAZIER SAMPLE
- ▨ PISTON SAMPLE
- △ WATER SAMPLE
- ▲ PIEZOMETER TIP
- ▲ STANCIPE
- ⬇ STANDARD PENETRATION TEST
- ⊥ PERMEABILITY TEST
- ⊥ IMPRESSION PAKER TEST
- ∇ IN-SITU VANE SHEAR TEST
- ⊥ PAKER TEST

LOGGED K.M. To 70  
DATE 24/02/2003  
CHECKED James Lu 70  
DATE 25/02/2003

REMARKS



GEOTECHNICS & CONCRETE ENGG. (H.K.) LTD.  
GROUND INVESTIGATION DEPARTMENT

HOLE NO. **DH3**

SHEET **5** OF **5**

DRILLHOLE RECORD

CONTRACT NO. GE/2001/14

PROJECT **Ting Kau and Sham Tseng Village Sewerage Schemes Ground Investigation**

METHOD **Rotary Cored**

CO-ORDINATES

WORKS ORDER NO. **GE/2001/14.57**

MACHINE & NO. **DR128**

**E 826446.58**

DATE FROM **18/02/2003** TO **22/02/2003**

**N 825568.57**

FLUSHING MEDIUM **Air Foam**

ORIENTATION **Vertical**

GROUND LEVEL **4.98 mPD**

Drilling Progress	Casing size	Water level (m) & Time	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
1													moderately decomposed. From 34.50m to 34.70m : A sandy clay (<5mm thick) infilled joint, dipping at 60° to 70°. From 34.74m to 34.81m : Moderately strong and moderately decomposed. From 36.40m to 36.53m : Coarse grained granite. From 36.66m to 36.93m : With some randomly orientated calcite filled microfractures. From 37.20m to 38.53m : Sheared and slightly chloritized. From 37.33m to 37.49m : Moderately weak and moderately to highly decomposed. From 37.49m to 37.71m : Moderately strong and moderately decomposed. From 38.10m to 38.31m : A sheared plane, dipping at 60° to 70°. Hole completed at 38.53m.

- SMALL DISTURBED SAMPLE
- LARGE DISTURBED SAMPLE
- SPT LINER SAMPLE
- U76 UNDISTURBED SAMPLE
- U100 UNDISTURBED SAMPLE
- MAZIER SAMPLE
- PISTON SAMPLE
- WATER SAMPLE
- PIEZOMETER TIP
- STANDPIPE
- STANDARD PENETRATION TEST
- PERMEABILITY TEST
- IMPRESSION PACKER TEST
- IN-SITU VANE SHEAR TEST
- PACKER TEST

LOGGED **K.M. To**  
DATE **24/02/2003**  
CHECKED **James Lu**  
DATE **25/02/2003**

REMARKS



## Appendix F

Records Retrieved from Lands Department (LandsD)



File ref. : GCMW 2/E1/6SE-D/FR57

To Chief Geotechnical Engineer (Slope Maintenance Section), Lands Department


**GEO Checking Certificate for Slopes and Retaining Walls**  
**(Ref. GEO/MW007/2013)**

Agreement No. and Title : CE 31/2006 (GE), ENHANCED MAINTENANCE PROGRAMME  
UPGRADING/IMPROVEMENT WORKS TO  
LANDS DEPARTMENT SLOPES IN THE TSUEN WAN AND  
OUTLYING ISLANDS DISTRICTS -  
INVESTIGATION, DESIGN AND CONSTRUCTION

Contract No. and Title : 10/LANDS/07, UPGRADING/IMPROVEMENT WORKS TO  
LANDS DEPARTMENT SLOPES IN THE TSUEN WAN AND  
OUTLYING ISLANDS DISTRICTS

Appendix A : Certificate of Design and Completion/~~Stability Assessment~~\* of Slopes and Retaining Walls (Submitted by the Project or Maintenance Department/Office or their Consultants) (Feature No. 6SE-D/FR57)

- 
1. I confirm that the design/~~stability assessment~~\* of the geotechnical features included in the Certificate of Design and Completion/~~Stability Assessment~~\* of Slopes and Retaining Walls as given in Appendix A has been found to be satisfactory under the Geotechnical Engineering Office's checking requirements.

Signed :   
( P.L.R. PANG )

Deputy Head of Geotechnical Engineering Office/Mainland  
Civil Engineering and Development Department

Date : 4. 2. 2013

\* Delete whichever is not applicable.

File ref. : GCMW 2/E1/6SE-D/R158

To Chief Geotechnical Engineer (Slope Maintenance Section), Lands Department

**GEO Checking Certificate for Slopes and Retaining Walls**  
**(Ref. GEO/MW008/2013)**

Agreement No. and Title : CE 31/2006 (GE), ENHANCED MAINTENANCE PROGRAMME  
UPGRADING/IMPROVEMENT WORKS TO  
LANDS DEPARTMENT SLOPES IN THE TSUEN WAN AND  
OUTLYING ISLANDS DISTRICTS -  
INVESTIGATION, DESIGN AND CONSTRUCTION

Contract No. and Title : 10/LANDS/07, UPGRADING/IMPROVEMENT WORKS TO  
LANDS DEPARTMENT SLOPES IN THE TSUEN WAN AND  
OUTLYING ISLANDS DISTRICTS

Appendix A : Certificate of Design and Completion/~~Stability Assessment~~\* of Slopes and Retaining Walls (Submitted by the Project or Maintenance Department/Office or their Consultants) (Feature No. 6SE-D/R158)

- 
1. I confirm that the design/~~stability assessment~~\* of the geotechnical features included in the Certificate of Design and Completion/~~Stability Assessment~~\* of Slopes and Retaining Walls as given in Appendix A has been found to be satisfactory under the Geotechnical Engineering Office's checking requirements.

Signed : \_\_\_\_\_

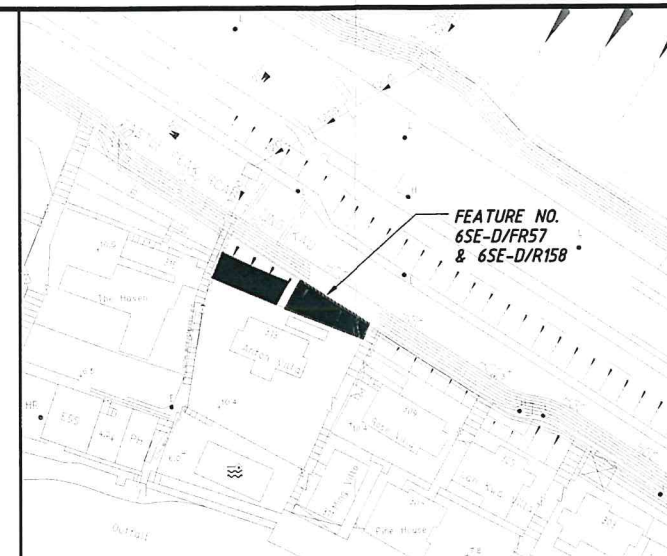
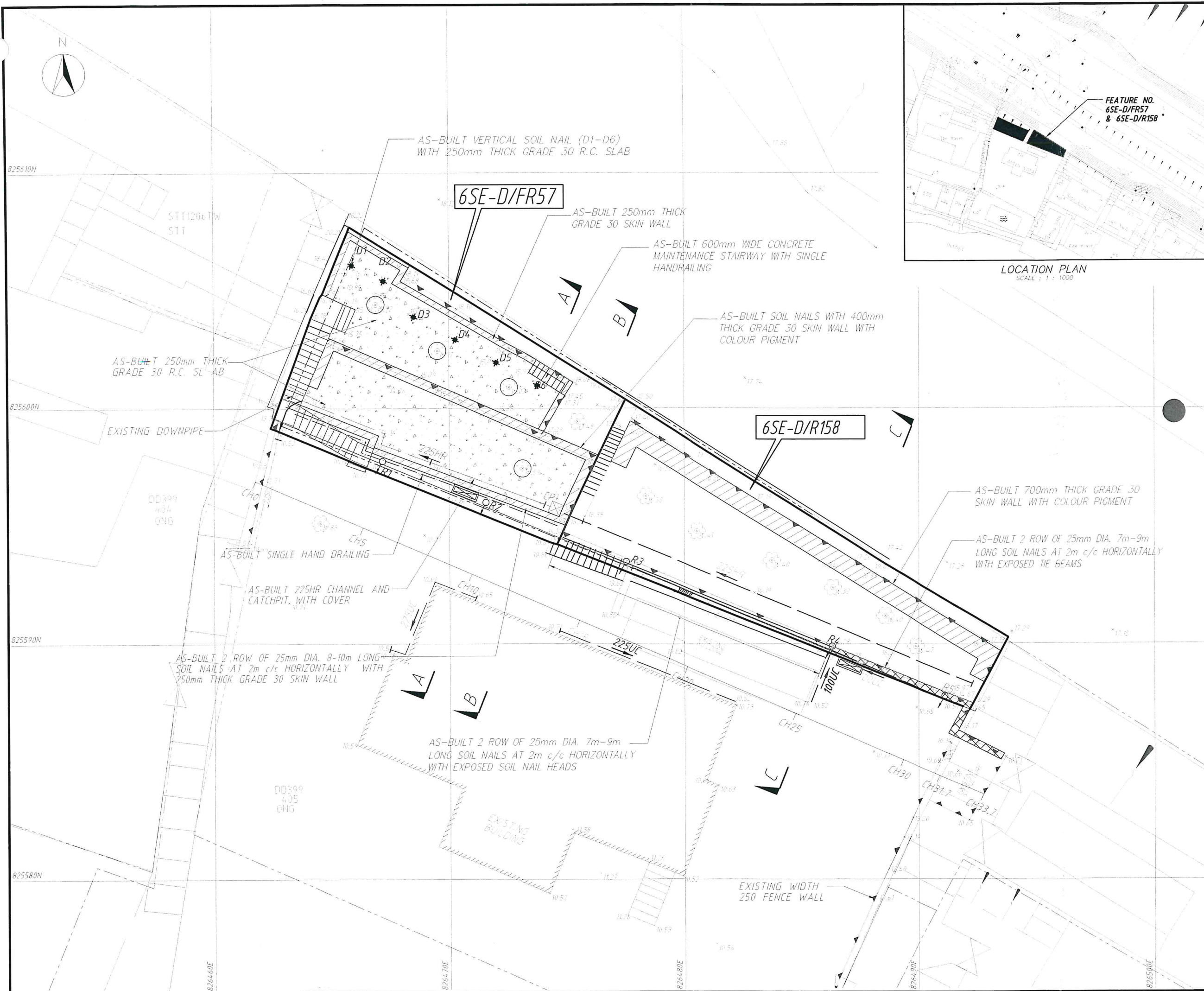
( P.L.R. PANG )

Deputy Head of Geotechnical Engineering Office/Mainland  
Civil Engineering and Development Department

Date : 4.2.2013

\* Delete whichever is not applicable.





LOCATION PLAN  
SCALE : 1 : 1000

**NOTES:**

1. THIS DRAWING WAS READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER OTHERWISE SPECIFIED.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE P.D.

**LEGEND:**

- ADOPTED FEATURE BOUNDARY
- FEATURE BOUNDARY IN SIS
- EXISTING CONTOUR LINE
- EXISTING GROUND LEVEL
- EXISTING SLOPE
- AS-BUILT SOIL NAILS
- CH0 CH1 CHAINAGE (m)
- SECTION MARK A-A
- AS-BUILT SKIN WALL
- 225UC AS-BUILT 225mm U-CHANNEL
- 225HR AS-BUILT 225mm HALF ROUND CHANNEL
- EXISTING 225mm HALF ROUND CHANNEL
- AS-BUILT 5m LONG TYPE 3 RAKING DRAIN
- AS-BUILT TIE BEAMS
- AS-BUILT SINGLE HANDRAILING
- AS-BUILT 250mm THICK GRADE 30 R.C. SLAB WITH BRUSHED FINISH
- AS-BUILT CATCHPIT WITH COVER
- AS-BUILT SLOPE REGISTRATION SIGN PLATE

Attachment 3

No.	Date	Description	Name, Post, company
-----	------	-------------	---------------------

Name	Company	Post	Date
Drawn	FS	Draftsman	
Checked	DEREK LAI	FS	SA

Contract No.

10/LANDS/07

Drawing no.	Rev.	Scale
AS/414/01	0	1:150

Drawing Title  
FEATURE NO. 6SE-D/FR57 & 6SE-D/R158  
TING KAU, NO. 311-313  
CASTLE PEAK ROAD  
PLAN OF WORKS (AS-BUILT)

Contractor  
**Fuk Shing Engineering Company Limited**

**LANDS ADMINISTRATION OFFICE**  
**SLOPE MAINTENANCE SECTION**

地政總署  
Lands Department

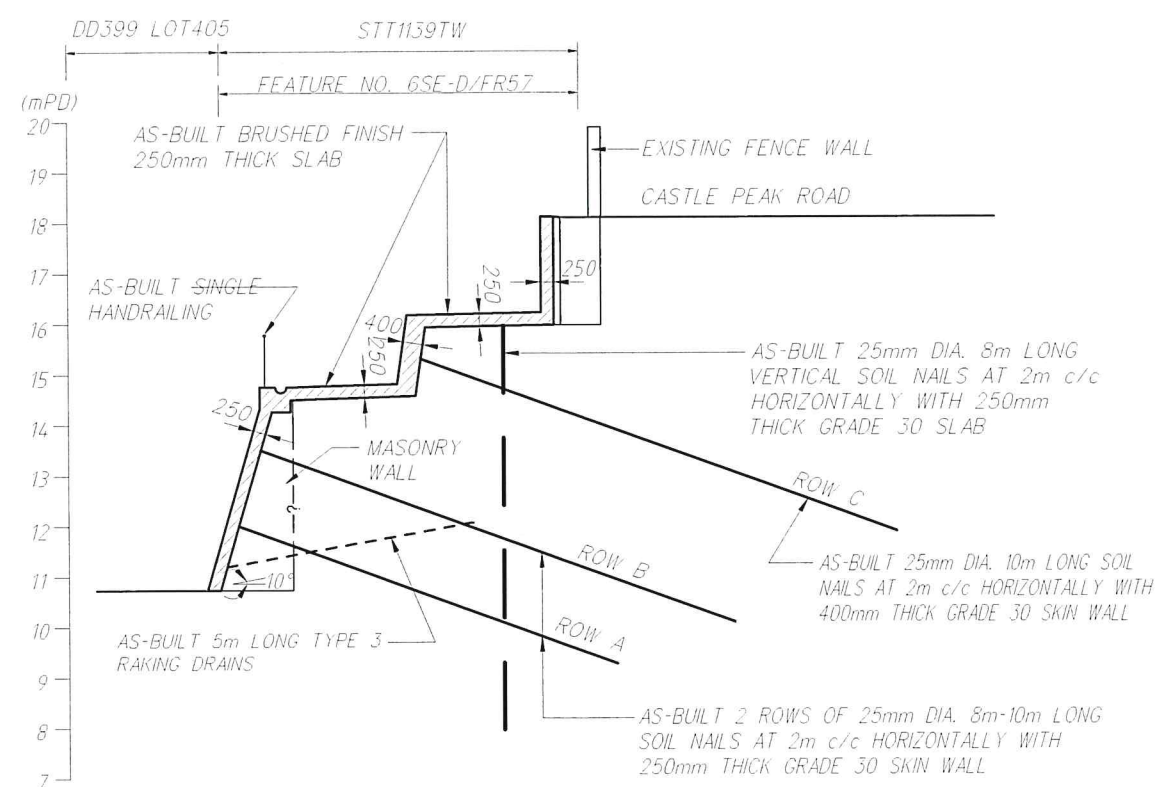
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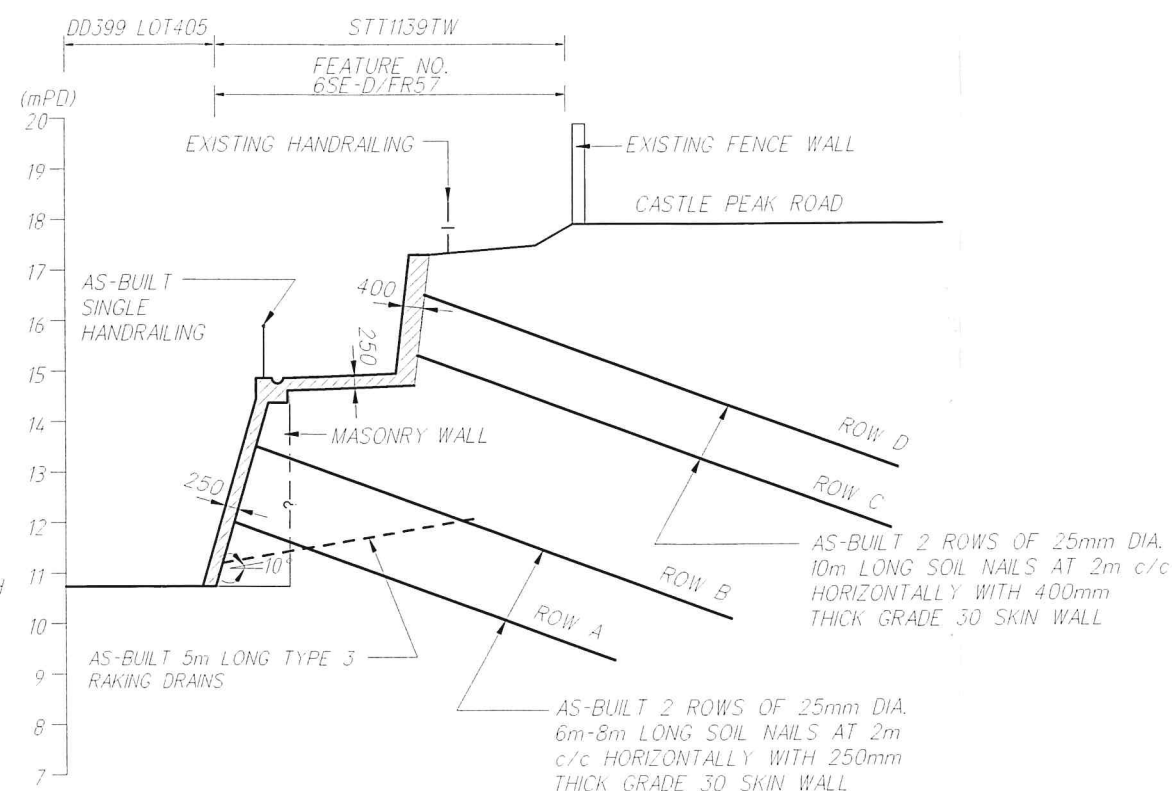
# NOTES:

1. THIS DRAWING WAS READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE P.D.



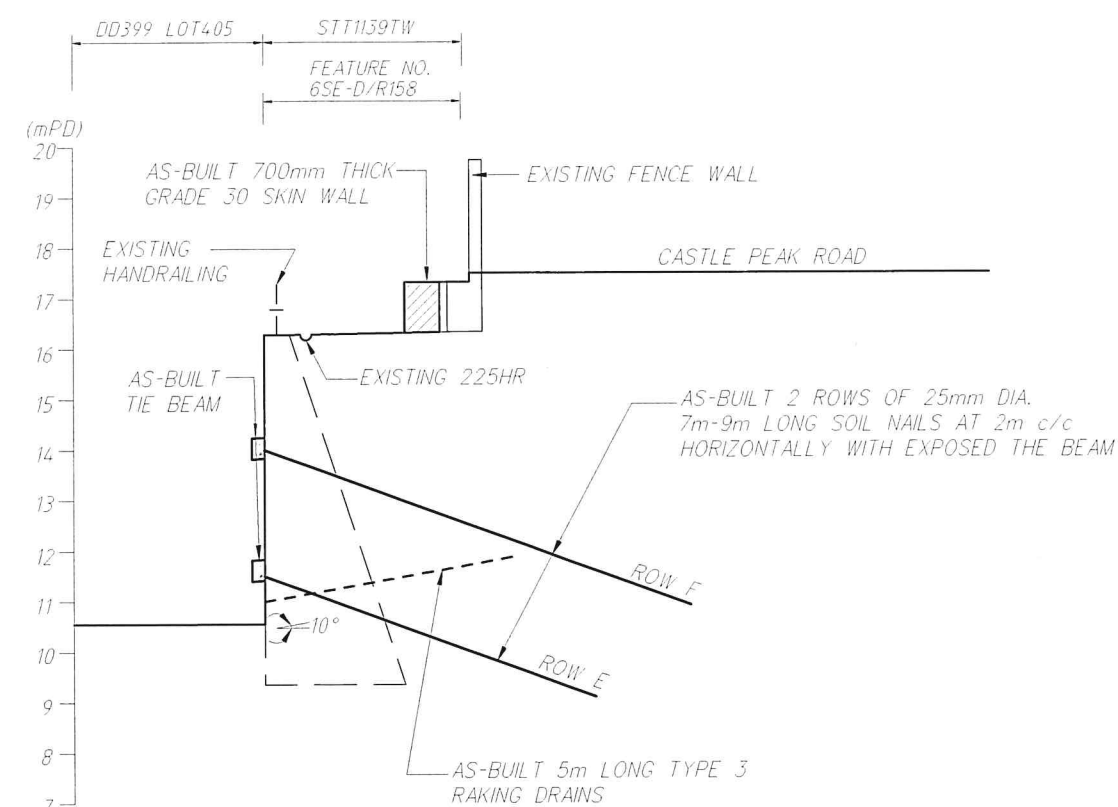
## SECTION A-A

SCALE 1:150



## SECTION B-B

SCALE 1:150



## SECTION C-C

SCALE 1:150

No.	Date	AS-BUILT DRAWING	DLB (SA/FS)
		Description	Name, Post, company

Name	Company	Post	Date
Drawn	FS	Draftsman	
Checked	DEREK LAI	FS	SA

Contract No.

10/LANDS/07

Drawing no.	Rev.	Scale
AS/414/02	0	1:150

Drawing Title  
FEATURE NO. 6SE-D/FR57  
& 6SE-D/R158  
TING KAU, NO. 311-313  
CASTLE PEAK ROAD  
SECTIONS  
(AS-BUILT)

Contractor  
Fuk Shing Engineering  
Company Limited

LANDS ADMINISTRATION OFFICE  
SLOPE MAINTENANCE SECTION

地政總署  
Lands Department

**AECOM**

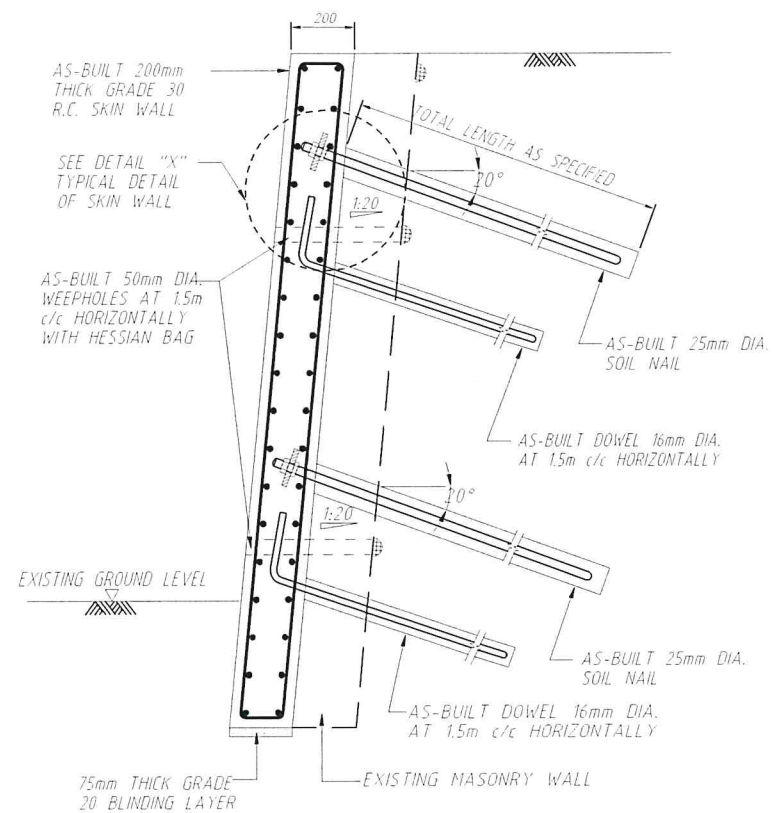
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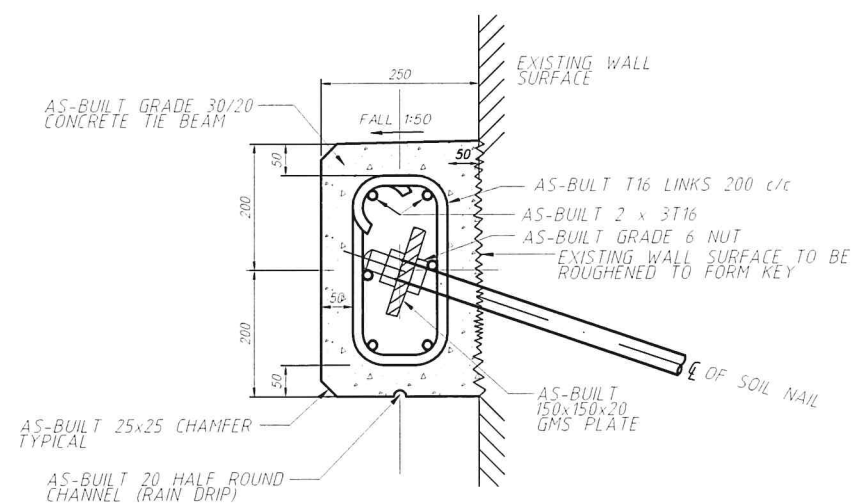
\* SEE STANDARD DRAWING C2522 (SOIL NAIL HEAD ON CONCRETE WALL SURFACE)

- |            |          |
|------------|----------|
| CAD File : | Status : |
|------------|----------|

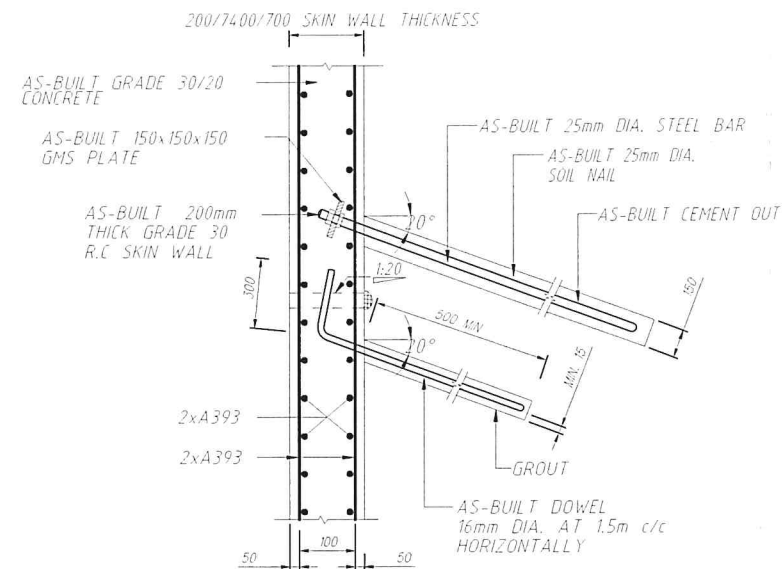




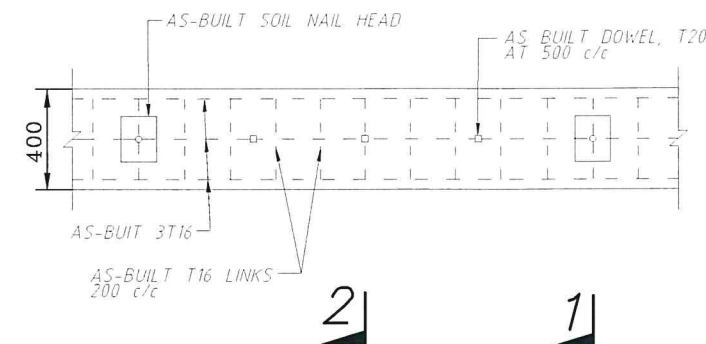
**TYPICAL SECTION OF SKIN WALL**  
N.T.S.



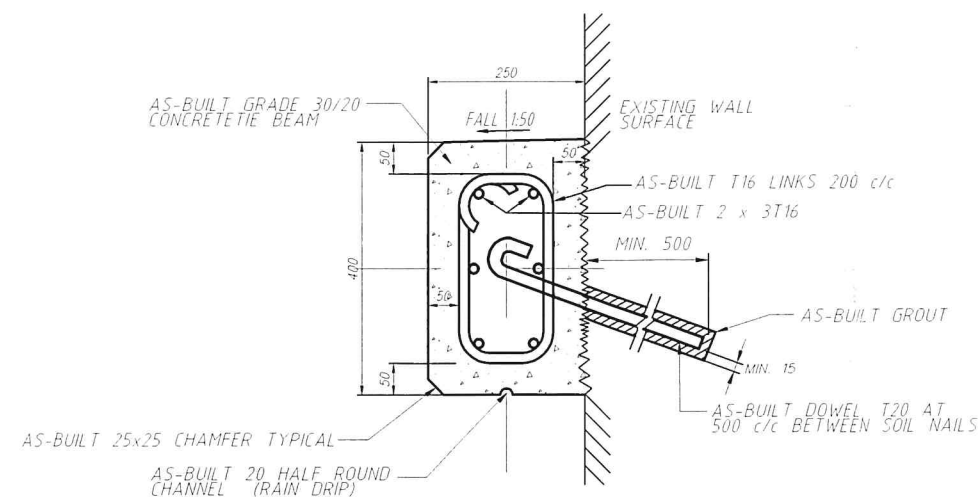
**SECTION 1-1**  
N.T.S.



**DETAIL "X"**  
N.T.S.



**ELEVATION OF TIE BEAM**  
N.T.S.



**SECTION 2-2**  
N.T.S.

**NOTES:**

1. THIS DRAWING WAS READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS, STANDARD DRAWINGS, THE SPECIFICATIONS AND INSTRUCTIONS ISSUED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
3. ALL LEVELS ARE IN METRES ABOVE P.D.
4. ALL SOIL NAILS WAS WITH DOUBLE CORROSION PROTECTION

No	Date	AS-BUILT DRAWING	DLB (SA/FS)
		Description	Name, Post, company

Name	Company	Post	Date
Drawn	FS	Draftsman	
Checked	DEREK LAI	FS	SA

Contract No.

10/LANDS/07

Drawing no.	Rev.	Scale
AS/414/04	0	1:150

Drawing Title  
FEATURE NO.6SE-D/FR57  
& 6SE-D/R158  
TING KAU, NO.311-313  
CASTLE PEAK ROAD  
SKIN WALL & TIE BEAM DETAIL  
(AS-BUILT)

Contractor  
Fuk Shing Engineering  
Company Limited

LANDS ADMINISTRATION OFFICE  
SLOPE MAINTENANCE SECTION

地政總署  
Lands Department

**AECOM**

CAD File Status