

**GEOTECHNICAL PLANNING REVIEW REPORT**

**for PLANNING APPLICATION**

**at LOTS 175 (PART), 176 (PART), 177 (PART), 178 S.A, 178 S.B, 179  
AND 181 IN D.D. 128 AND ADJOINING GOVERNMENT  
LAND, HA TSUEN, YUEN LONG, NEW TERRITORIES**

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## **1. INTRODUCTION**

This is the geotechnical planning review report for the application for Lots 175 (Part), 176 (Part), 177 (Part), 178 S.A, 178 S.B, 179 and 181 in D.D. 128 and adjoining government land, Ha Tsuen, Yuen Long, New Territories.

This report is to identify that the proposed development is geotechnical feasible and will not cause any instability to the adjoining lots and vice versa.

## **2. PROPOSED DEVELOPMENT**

This application is to erect the temporary open storage of construction materials and metal for a period of 3 years.



### 3. THE SITE

#### 3.1 General

The site is located at the crest near the middle portion of Feature No. 6NW-A/C29. The level of the site is about +19.5mPD to +29.0mPD and the site area is about 8,200m<sup>2</sup>.

#### 3.2 Existing Geotechnical Feature

According to the information obtained from the Hong Kong Slope Safety (HKSS) website – Slope Information System (SIS), a registered feature of 6NW-A/C29 is located at the southwest side of the proposed application site. The layout plan and the feature information obtained from SIS is enclosed in Appendix A.

##### Feature 6NW-A/C29

Based on the information obtained from SIS, the feature is about 285m long cut slope with about 7.5m high and a gradient of 39°. The application site is located at middle portion of the crest of feature no. 6NW-A/C29. In accordance with the record obtained from Slope Maintenance Responsibility Information System (SMRIS) from the website of Lands Department, the maintenance responsibility of the feature is summarized as below:

Sub-division No.	Maintenance Party
1	Lands Department
2	DD128 Lot 165RP
3	DD128 Lot 170
4	DD128 Lot 177
5	DD128 Lot 176
6	DD128 Lot 175
7	DD128 Lot 171
8	DD128 Lot 174
9	DD128 Lot 163A
10	DD128 Lot 163B
11	DD128 Lot 162
12	DD128 Lot 134
13	DD128 Lot 161

The application site is located at the crest of the sub-division No. 4, 5 and 6 which maintained by DD128 Lot 175, 176 and 177, the SMRIS report is enclosed in Appendix B.

### 3.3 Site Geology

Desk study is carried out for identification of the site geology and the following documents are viewed:

#### 3.3.1 1:20000 scale geological map

Based on the 1:20,000 scale map, “Yuen Long” Sheet 6, Solid and Superficial Geology, Series HGM20 published by the Geotechnical Engineering Office (Edition I – 1988), the site is underlain by fine-to medium-grained granite from Jurassic-Cretaceous of Mesozoic. The Geological Map is enclosed in Appendix C.

#### 3.3.2 Past Instability and Natural Terrain Hazards

There is no relevant past landslide and ENTLI record was found.

### 3.4 Adjoining Structures

An open space storage site is located at toe of the feature no. 6NW-A/C29 which at the southwestern side of the application site. The layout plan and the section are enclosed in Appendix D.

#### **4. PROPOSED WORKS**

The proposed planning application has 5 nos. of single storey structures which included 4 nos. of single storey of warehouse for storage of construction materials and metal, 1 no. of single storey of toilet. And 1 no. of 2 storeys structure – site office. In order to avoid an additional loading imposed to the slope feature, a 12m no build zone from the slope crest is designated at the crest of slope feature. Also, no excavation lateral support, foundation works and site formation works is proposed for the application site. The proposed layout plan is enclosed in Appendix E.

## **5. CONCLUSION**

The proposed planning application involves the construction of small structures only and no building zone will be assigned at the crest of the feature 6NW-A/C29, it is therefore, no additional loading and adverse effect will be imposed to adjacent ground and the geotechnical feature. Furthermore, no excavation lateral support, foundation works and site formation works is proposed on application site, hence, it is envisaged that the proposed planning application is geotechnical feasible.

## **APPENDIX A**

### **SLOPE INFORMATION OBTAINED FROM SLOPE INFORMATION SYSTEM (SIS)**

## BASIC INFORMATION

Location: Shougang Concord Godown Ltd., Lau Fau Shan, Yuen Long.

Date of Formation: pre-1977

Date of Construction/  
Modification:

Approximate Coordinates: Easting : 816162 Northing : 835711

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Cottage, licensed and squatter area

Distance of Facility from Crest (m): 0

Facility at Toe: Non-dangerous goods storage site

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 1

Remarks: N/A

## SLOPE PART

(1) Max. Height (m): 7.5 Length (m): 285 Average Angle (deg): 39

## WALL PART

N/A

## MAINTENANCE RESPONSIBILITY

Mixed Feature	Party: Lands D	Agent: Lands D
Mixed Feature	Party: DD128 LOT165RP	Agent: N/A
Mixed Feature	Party: DD128 LOT170	Agent: N/A
Mixed Feature	Party: DD128 LOT177	Agent: N/A
Mixed Feature	Party: DD128 LOT176	Agent: N/A
Mixed Feature	Party: DD128 LOT175	Agent: N/A
Mixed Feature	Party: DD128 LOT171	Agent: N/A
Mixed Feature	Party: DD128 LOT174	Agent: N/A
Mixed Feature	Party: DD128 LOT163A	Agent: N/A
Mixed Feature	Party: DD128 LOT163B	Agent: N/A
Mixed Feature	Party: DD128 LOT162	Agent: N/A
Mixed Feature	Party: DD128 LOT134	Agent: N/A
Mixed Feature	Party: DD128 LOT161	Agent: N/A

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 15-06-2015  
 Data Source: EI(Lands D)  
 Slope Part Drainage: N/A

Wall Part Drainage: N/A

## 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**

N/A

**SERVICES**

N/A



## STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Non-dangerous goods storage site

Distance from Toe(m): 0

Type of Crest Facility: Cottage, licensed and squatter area

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**







## **APPENDIX B**

### **SLOPE INFORMATION OBTAINED FROM SLOPE MAINTENANCE RESPONSIBILITY INFORMATION SYSTEM (SMRIS)**

# Slope Maintenance Responsibility Report

(6NW-A/C29)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	6NW-A/C29		Sub-Division	1
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	Lands Department	Maintenance Agent	Lands Department
	Remarks	1. Slope information being reviewed.  2. For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		
2	6NW-A/C29		Sub-Division	2
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT165RP	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	6NW-A/C29		Sub-Division	3
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT170	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
4	6NW-A/C29		Sub-Division	4
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT177	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
5	6NW-A/C29		Sub-Division	5
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT176	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
6	6NW-A/C29		Sub-Division	6
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT175	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

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Search Criteria: 6NW-A/C29

7	6NW-A/C29		Sub-Division	7
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT171	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
8	6NW-A/C29		Sub-Division	8
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT174	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
9	6NW-A/C29		Sub-Division	9
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT163A	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
10	6NW-A/C29		Sub-Division	10
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT163B	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
11	6NW-A/C29		Sub-Division	11
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT162	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
12	6NW-A/C29		Sub-Division	12
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT134	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
13	6NW-A/C29		Sub-Division	13
	Location	SLOPE FALLS IN GOVERNMENT LAND, DD128 LOT165RP, 170, 177, 176, 175, 171, 174, 163A, 163B, 162, 161 & 134		
	Responsible Lot/Party	DD128 LOT161	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

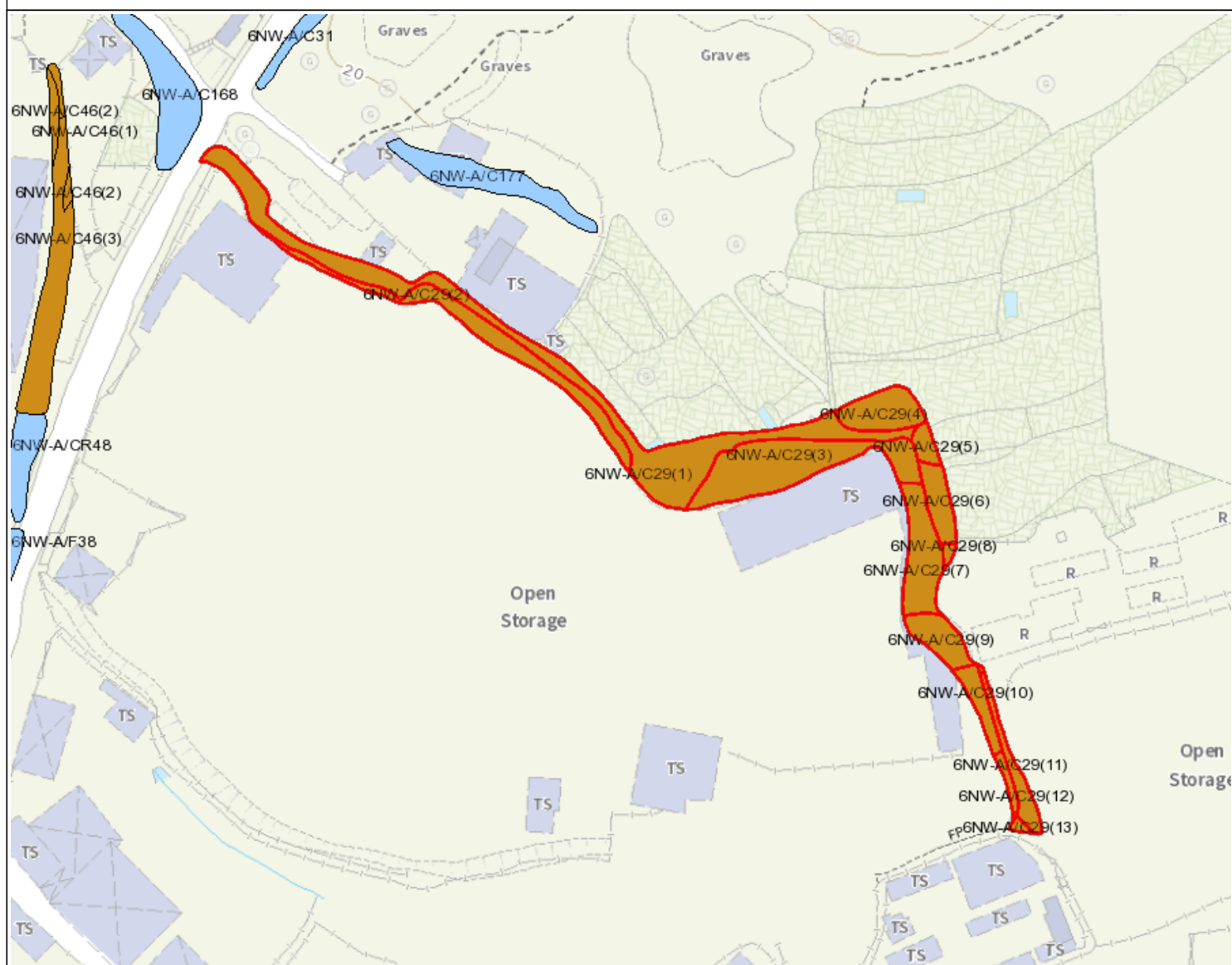
- End of Report -

**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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## 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.

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Search Criteria: 6NW-A/C29



## **APPENDIX C**

### **GEOLOGICAL MAP**

中生代 MESOZOIC 侏羅-白堊紀 JURASSIC-CRETACEOUS

Megacrystic 具大斑晶的

gf 細粒花崗岩, < 2 毫米 Fine-grained granite, <2mm

gfm 中細粒花崗岩 Fine- to medium-grained granite

gm 中粒花崗岩, 2 - 6 毫米 Medium-grained granite, 2-6mm

gc 粗粒花崗岩, > 6 毫米 Coarse-grained granite, >6mm

gfg 雲英岩化細粒花崗岩 Greisenized fine-grained granite

d 斑狀微晶花崗閃長岩 Dacite

gdf 細粒花崗閃長岩, < 2 毫米 Fine-grained granodiorite, <2mm

gdm 中粒花崗閃長岩, 2 - 6 毫米 Medium-grained granodiorite, 2-6mm

MINOR INTRUSIVE IGNEOUS ROCKS 次要侵入火成岩 (脉岩)

TERTIARY 第三紀

b 輝綠岩 Basalt

a 閃長玢岩 Andesite

l 煌斑岩 Lamprophyre

rf 長石斑岩 Feldsparphyric rhyolite

rq 石英斑岩 Quartzphyric rhyolite

ap 細晶岩 Aplite

p 偉晶岩 Pegmatite

q 石英脉 Quartz vein

中生代 MESOZOIC 侏羅-白堊紀 JURASSIC-CRETACEOUS

METAMORPHIC ROCKS 變質岩

White wave ornament indicates water cover 白色波紋表示受水淹蓋

糜棱岩 Mylonite

片岩 Schist

變質岩石 Metamorphosed

GEOLOGICAL LINES 地質界綫

Geological boundary, superficial deposit 地表沉積地質界綫

Fill boundary, with limit of reclamation at date shown 填土區界綫, 附填土年份

Geological boundary, solid rock 基岩地質界綫

Fault (crossmark indicates downthrow side) 斷裂 (短劃指向下降盤)

Mineral vein 礦脉

Photogeological lineament 航攝地質綫性影像

Broken lines on map face denote uncertainty 圖內虛綫表示推測界綫

STRUCTURAL SYMBOLS 構造符號

傾斜 Inclined 垂直 Vertical

Bedding 層理

Flow fabric 流動組構

Jointing 節理

Foliation 葉理

All dips and plunges measured in degrees from horizontal 所有傾角和傾伏角的角度均從水平位置起計

MINERAL SYMBOLS 礦產符號

Mineral occurrence 礦產

Graphite gr 石墨

Quartz q 石英

Wolframite W 黑鎢礦

Galena Pb 方鉛礦

Sphalerite Zn 閃鋅礦

Geological Survey by R. L. Langford and K.W. Lai in 1984-1987. 地質調查由林富達和黎權偉負責 1984-1987。

Offshore geology by R. Shaw in 1986-1987. 離岸地質由蕭偉立負責 1986-1987。

Base map and cartography by Survey and Mapping Office, Buildings and Lands Department, Hong Kong. 地形底圖及製圖由香港屋宇地政署測繪處負責。

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Index to Sheets 索引圖

Sheet 6 編號

Series HGM20 組別

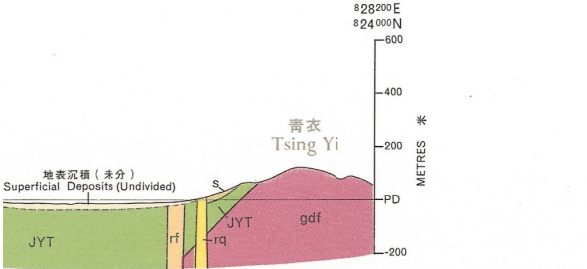
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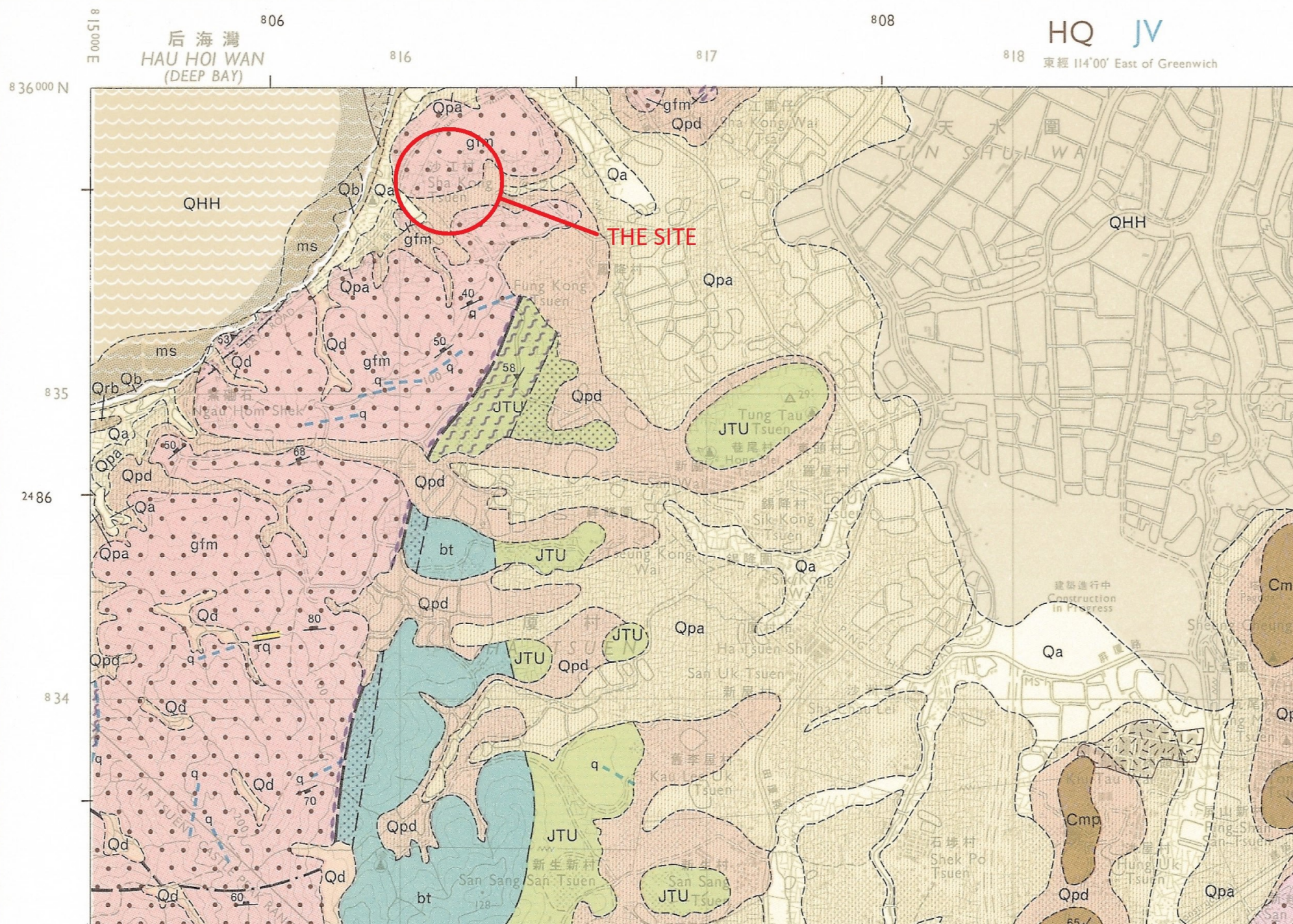
Geological explanatory notes and base map reference printed on reverse side 地質圖說明及底圖圖例見背頁

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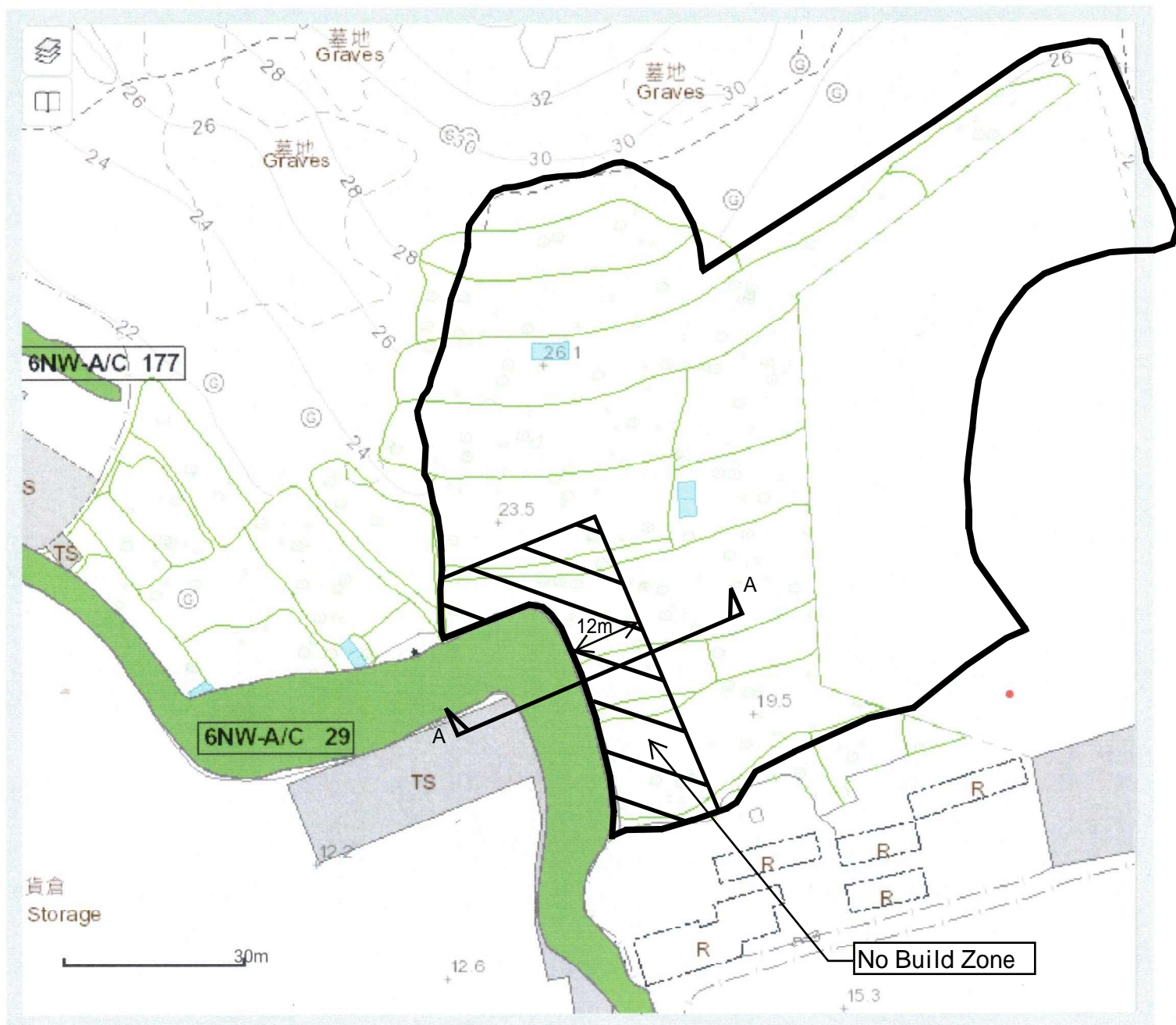
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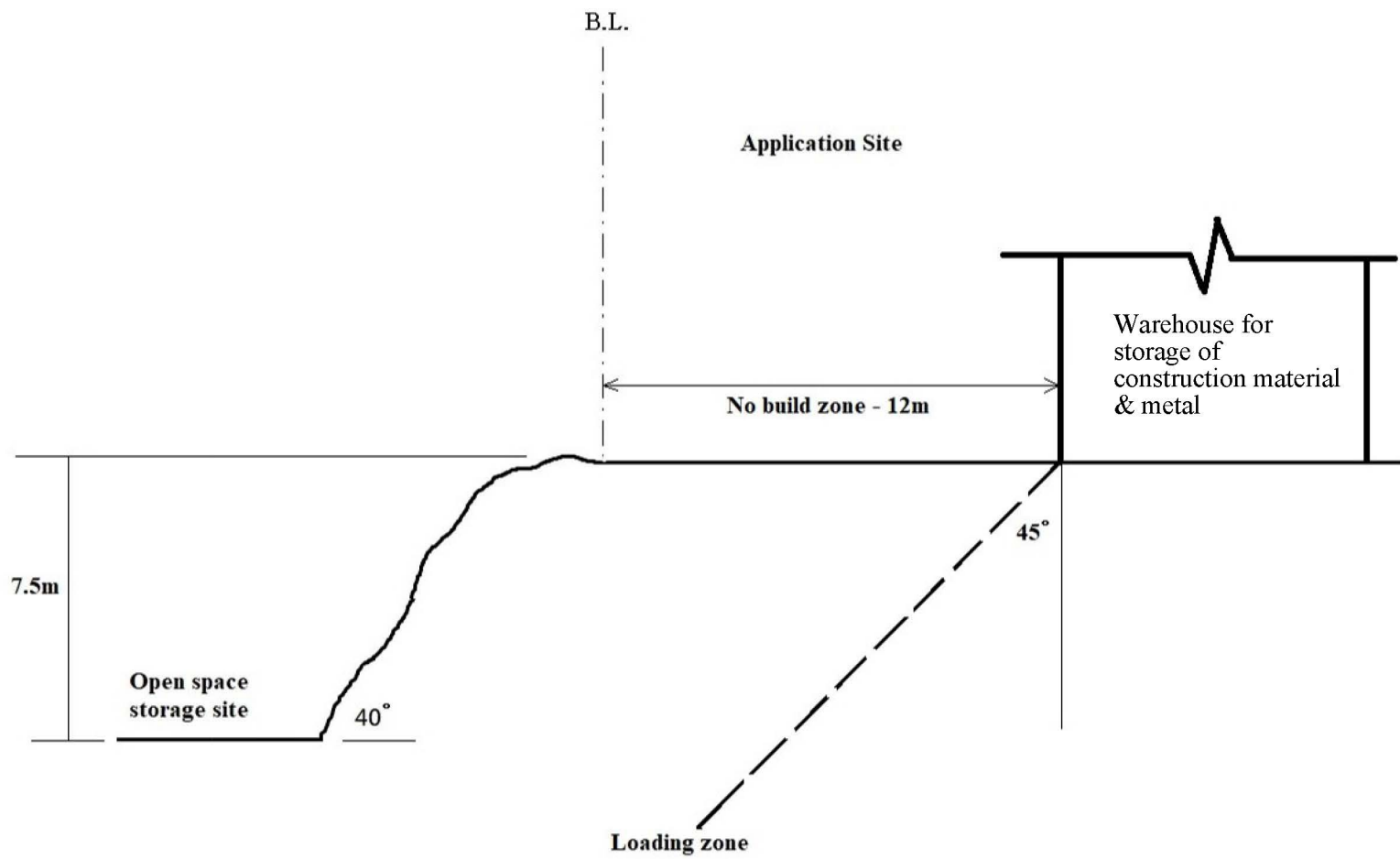


## **APPENDIX D**

### **SITE LAYOUT PLAN AND SECTION**



**SITE LAYOUT PLAN**



Section A-A  
N.T.S.

## **APPENDIX E**

### **PROPOSED LAYOUT PLAN**

N



**Structure 6**

Toilet  
GFA: Not exceeding 20m<sup>2</sup>  
Height: Not exceeding 3m  
No. of storey: 1

**Structure 5**

Site office  
GFA: Not exceeding 160m<sup>2</sup>  
Height: Not exceeding 6m  
No. of storey: 2

2 parking spaces  
of 5m x 2.5m for  
private car

Open storage of construction  
material and metal (Area 2)  
(About 550m<sup>2</sup>)

13m diameter  
manoeuvring  
circle

7.3m wide  
Ingress/  
Egress

One loading/unloading  
bay of 7m x 3.5m for  
light goods vehicle

**Structure 1**

Warehouse for storage  
of construction materials & metal  
GFA: Not exceeding 225m<sup>2</sup>  
Height: Not exceeding 6m  
No. of storey: 1

**Structure 2**

Warehouse for storage  
of construction materials & metal  
GFA: Not exceeding 225m<sup>2</sup>  
Height: Not exceeding 6m  
No. of storey: 1

**Structure 3**

Warehouse for storage  
of construction materials & metal  
GFA: Not exceeding 225m<sup>2</sup>  
Height: Not exceeding 6m  
No. of storey: 1

**Structure 4**

Warehouse for storage  
of construction materials & metal  
GFA: Not exceeding 225m<sup>2</sup>  
Height: Not exceeding 6m  
No. of storey: 1

Open storage of construction  
materials and metal (Area 1)  
(About 4,200m<sup>2</sup>)

12m

12m

No  
Build  
zone

Project 項目名稱:

Proposed Temporary Open Storage of  
Construction Materials and Metal for a  
Period of 3 Years at Lots 175 (Part), 176  
(Part), 177 (Part), 178 S.A, 178 S.B, 179 &  
181 in D.D. 128 & Adjoining Government  
Land, Ha Tsuen, Yuen Long, N.T.

Drawing Title 圖目:

Proposed Layout Plan

Remarks 備註:

Drawing No. 圖號:

Figure 3

Scale 比例:

1:1000