

Appendix G

Geotechnical Planning Review Report

Application for Amendment of Plan under Section 12A of the
Town Planning Ordinance (Cap. 131) to Rezone the
Application Site from “Green Belt” to “Residential (Group C)
1” for Proposed House Development

at

Various Lots in D.D. 244 and Adjoining Government
Land,
Nam Pin Wai, Sai Kung

Geotechnical Planning Review Report

1st Submission

JMK Consulting Engineers Limited
May 2023

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1. INTRODUCTION

Philip So & Associates Ltd was appointed to carry out Geotechnical Planning Review Report (GPRR) for the proposed residential development at various lots in D.D. 244 at Nam Pin Wai, Sai Kung (the Site).

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

2. THE SITE AND THE FEATURES

The Site is at Nam Pin Wai, Sai Kung. New Hiram’s Highway is located at a distance about 25m at east of the Site. Site photos taken in February 2021 are presented in Appendix A (see Photos A of F). According to the available SIS records obtained from Geotechnical Engineering Office (GEO), there is a registered geotechnical feature no. 11NE-B/F186 partly lies within the southwestern of the Site and two registered geotechnical feature nos. 11NE-B/CR 924 and 11NE-B/FR 295 are located immediately outside the east of the Site boundary.

3. DESK STUDY

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

Ground investigation was carried out at Feature No. 11NE-B/CR924 at distance about 6m at the east of the Site under the project, namely “Hiram’s Highway Improvement Phase 3 : Improvement between Nam Wai and Ho Chung and Upgrading Local Access Roads”, prepared by Gammon Construction Limited in June 1999. The borehole record (Drillhole No. ABH2) indicated that the site comprises colluvium overlying completely / highly decomposed tuff (C/HDT) (see Appendix D).

3.1 Geological Maps

The geology of the Study Area is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 11 (Hong Kong & Kowloon), 1:20,000 - scale HGM20 series. The local geology of the Study Area is presented in Figure 3 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 coarse ash crystal tuff (Krd_cat) of the Mount Davis Formation.

3.1.2 Superficial Geology

Entire Site are surrounded by alluvium (Qfa).

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.

The ENTLI has recorded none relict / recent landslides 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. According to the inventory, there is no HLC within the Site.

3.4 Large Landslide Study

The Large Landslide database was prepared by Scott Wilson (1999) for the GEO. Interpretation of landslide details with Map Sheet Ref No. 11-NE-A was conducted using the low altitude (3,900 ft.) 1963 aerial photographs to identify features thought to be landslides with source area greater than 20m wide. The database has no record of large landslides within or close to the Site.

3.5 Reported Landslide Incidents

The GEO landslide incidents database has no record of reported landslide incident within or in the vicinity of the Site.

4. IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES AND RETAINING WALLS

Feature No. 11NE-B/F186 (Photos E and F)

Feature No. NE-B/F186 is located at the southwestern end of Site boundary. Sub-division nos. 1, 2 and 3 of the feature are lies within the Site while the rest are immediately outside the Site. According to the SIS record, the slope portion of the feature has a maximum eight about 8.0m with 110m long measured along its toe, and the average slope gradient is about 40 degrees to the horizontal.

Feature No. 11NE-B/FR295 (Photos G and H)

Feature No. 11NE-B/FR295 is located immediately outside the eastern site boundary and adjacent to the Feature No. 11NE-B/CR924 . According to the SIS record, the slope portion of the feature has a maximum height about 8.8m with 85m long measured along its toe, and the average slope gradient is about 30 degrees to the horizontal. The wall portion of the feature has a maximum height about 8.8m with 16.3m long measured along its toe, and the average wall face angle is about 90 degrees to the horizontal. Stability assessment was checked and accepted by GEO in 1998 under the project “Hiram’s Highway Improvement Between Nam Wai and Ho Chung”.

Feature No. 11NE-B/CR924 (Photos I and J)

Feature No. 11NE-B/CR924 is located immediately outside the northeastern site boundary. According to the SIS record, the slope portion of the feature has a maximum height about 3m with 50m long measured along its toe, and the average slope gradient is about 35 degrees to the horizontal. The wall portion of the feature has a maximum height about 5m with 50m long measured along its toe, and the average wall face angle is about 90 degrees to the horizontal. Stability assessment was checked and accepted by GEO in 1998 under the project “Hiram’s Highway Improvement Between Nam Wai and Ho Chung”.

Impacts of Proposed Works – Existing Features

The proposed development consists of gardening construction for clubhouse for Site A and 3-storery house for Site B & C.

The schematic geotechnical works for the proposed development – Option 1 are discussed below (Figure 5 & 6):-

Since Feature 11NE-B/CR924 & 11NE-B/FR295 are adjacent to the application site, the stability on the geotechnical feature shall be assessed in detail under a separate submission. Site formation works / slope upgrading works such as installation of soil nails works are proposed in the site formation design / slope upgrading design submission if the stability of such geotechnical features cannot fulfil the current engineering standards. In addition,

Application for Amendment of Plan under Section 12A of the Town Planning Ordinance (Cap. 131) to Rezone the Application Site from “Green Belt” to “Residential (Group C) 1” for Proposed House Development at Various Lots in D.D. 244 and Adjoining Government Land.
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Geotechnical Planning Review Report

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retaining walls are proposed to withstand the required platform under a site formation submission to the Buildings Department for approval.

Application Site A, B & C

No existing geotechnical feature is situated within Application Site A, B & C. The schematic geotechnical works for Site A, B & C consist of mainly soil cutting and formation permanent cut slope with 1.1m high approximately in Site A, construction of retaining wall or mass wall with level platform and 3-storey houses in both Site B and Site C. According to criteria for Feature Registration in the Appendix B of PNAP ADV-8 issued by Buildings Authorities, cut slopes, including any associated retaining walls and retaining walls greater than 3m high shall be registered as a Feature. As there is retaining wall over 3m high within Site C, it is considered that a geotechnical feature is proposed. Detail site formation proposal shall be submitted to Buildings Department for approval.

The preliminary design for site formation / slope upgrading works is given in Figure 7 to 9.

5. CONCLUSION

Based on the above discussion, it can be concluded that the proposed residential development is considered to be feasible from geotechnical point of view. The existing feature shall be upgraded to the current engineering standards if the stability of such geotechnical features are found below standards.

It is essential to search and review the background information of existing building, geotechnical feature 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 as well as the design of geotechnical structure should be based on geological horizons inferred from the ground investigation results, groundwater table interpreted from the piezometer / standpipe monitoring records and geotechnical parameters determined and adopted by field and laboratory testing.

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

FIGURES

Figure 1

Site Location Plan

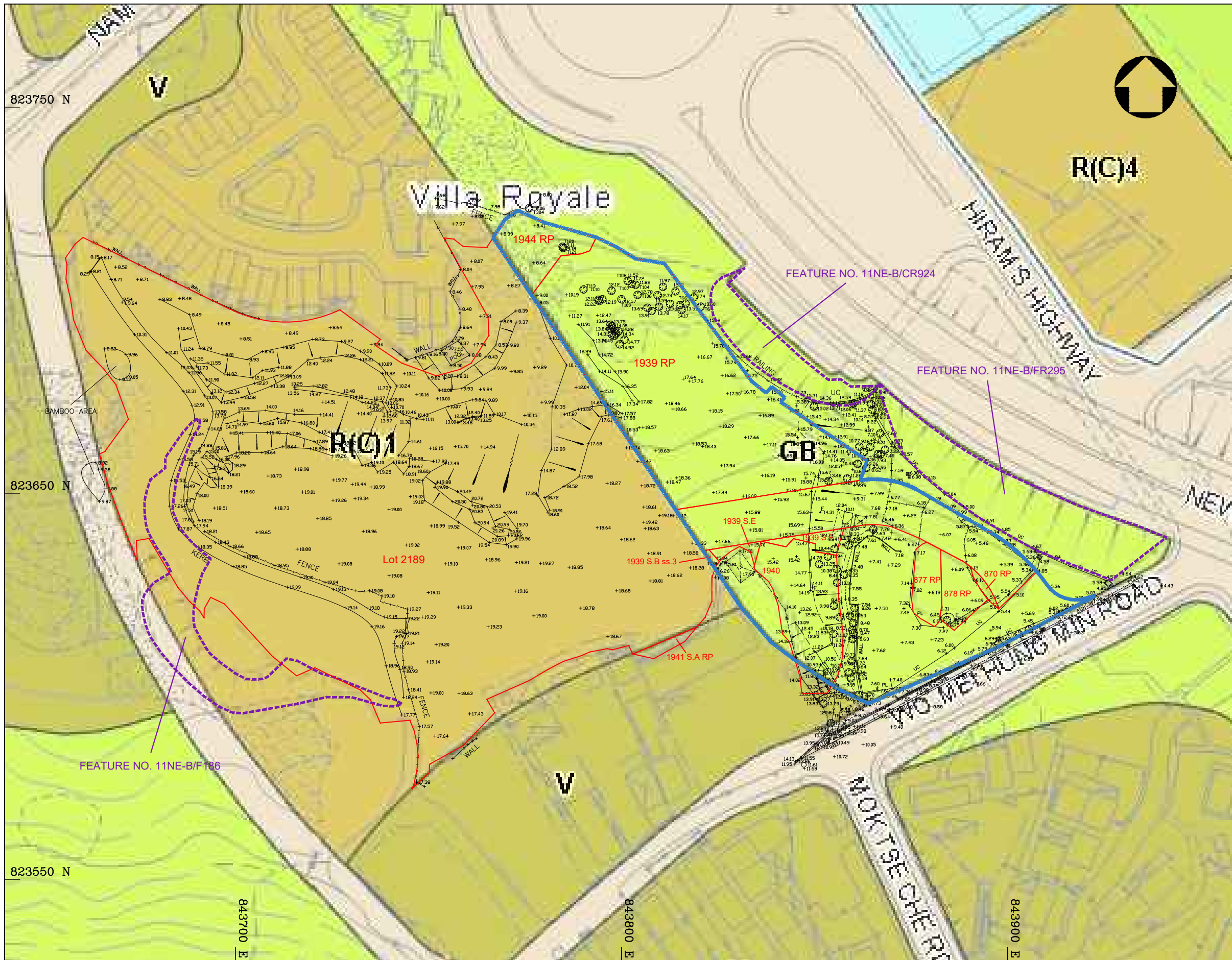


LEGENDS:
- - - APPLICATION SITE BOUNDARY
— LOT BOUNDARY LINE
A ● PHOTO DIRECTION
EXTRACTED FROM 11NE-5A

APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131) TO REZONE THE APPLICATION SITE FROM "GREEN BELT" TO "RESIDENTIAL (GROUP C) 1" FOR PROPOSED HOUSE DEVELOPMENT AT VARIOUS LOTS IN D.D.244 AND ADJOINING GOVERNMENT LAND, NAM PIN WAI, SAI KUNG.

Figure 2

Lot Index Plan and Feature Location



NOTES : -

1. ALL LEVELS ARE IN METERS ABOVE P.D.
2. GRID LINES ARE IN H.K. METRIC GRID 1980.

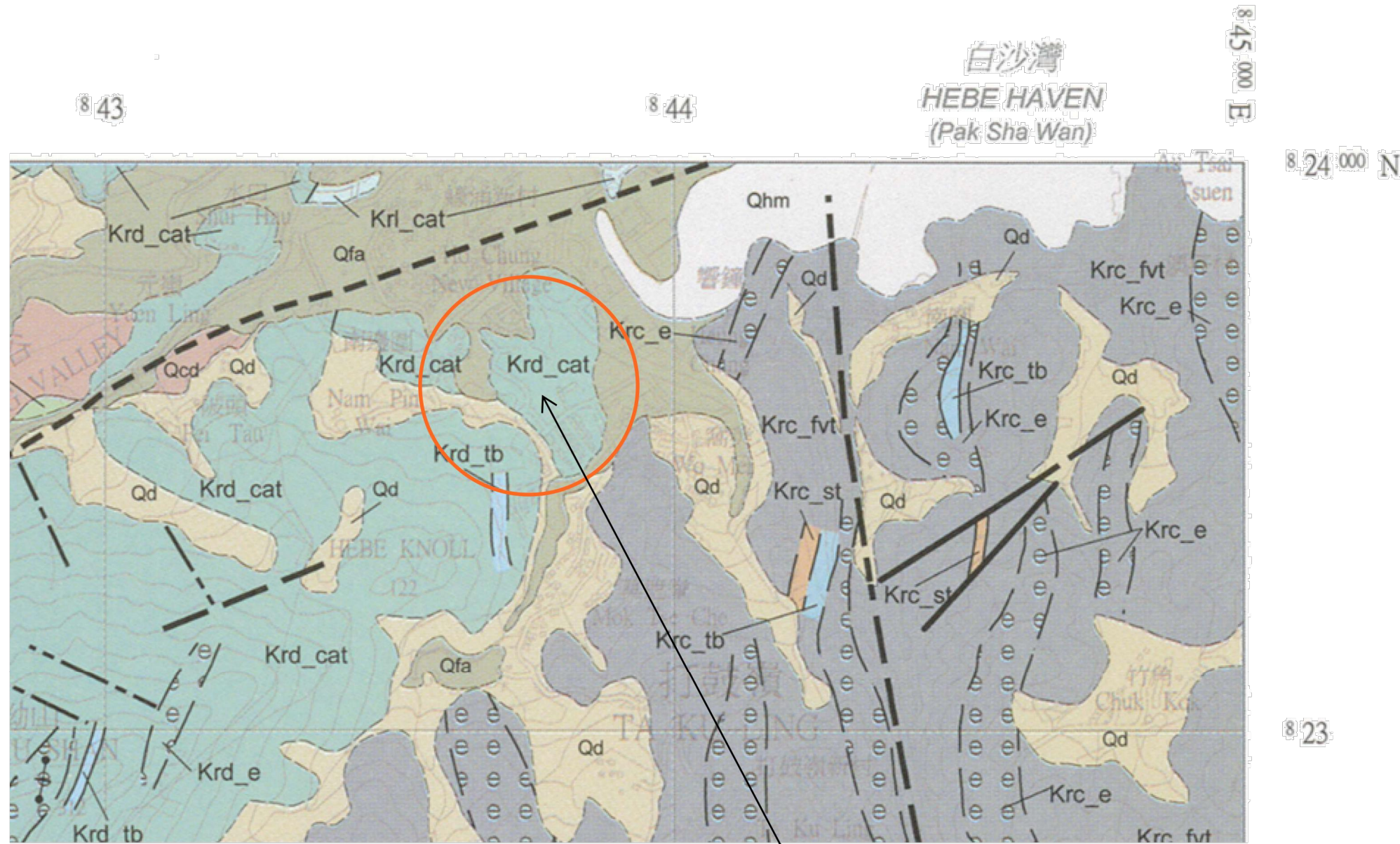
LEGENDS :

- APPLICATION SITE BOUNDARY LINE
- LOT BOUNDARY LINE
- - - - FEATURE BOUNDARY LINE

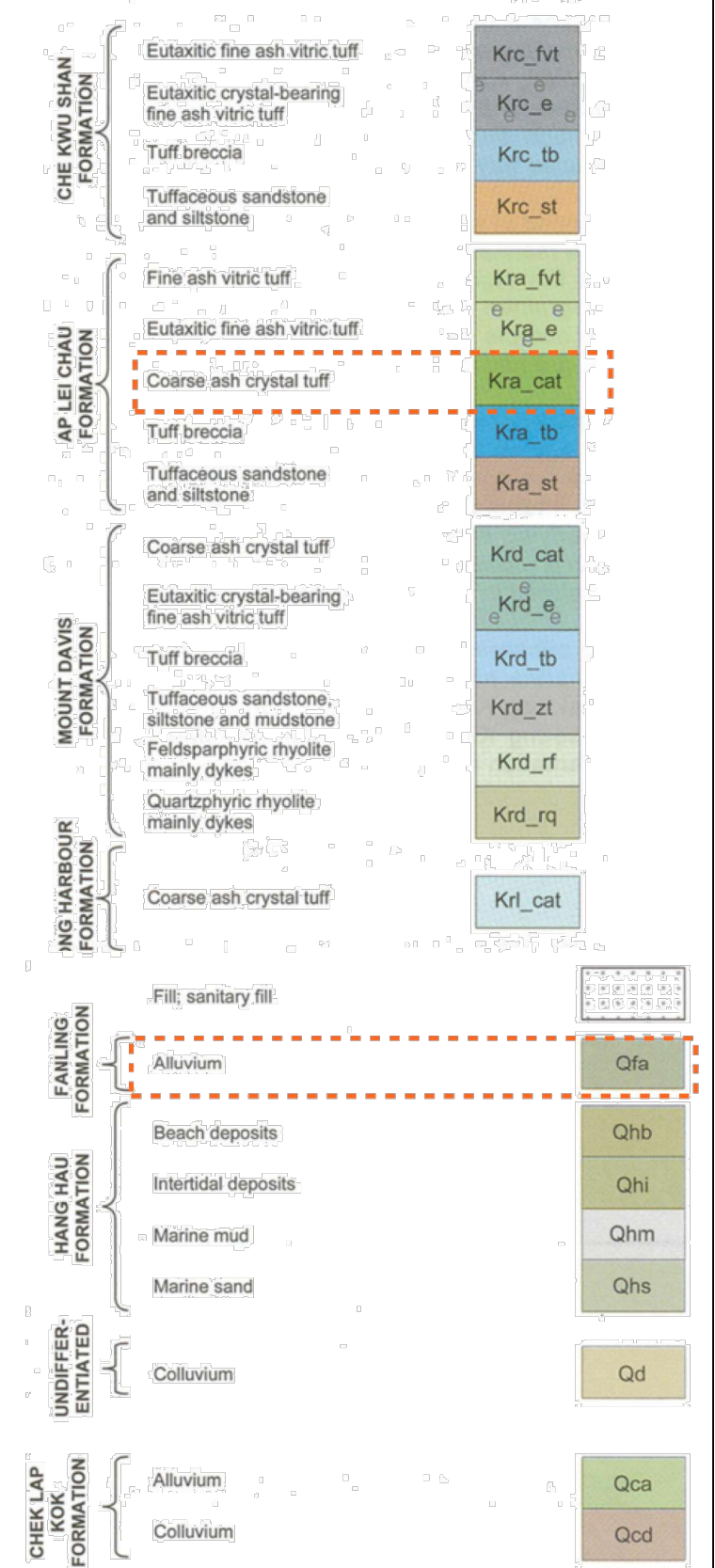
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Figure 3

Geological Map



Legend:



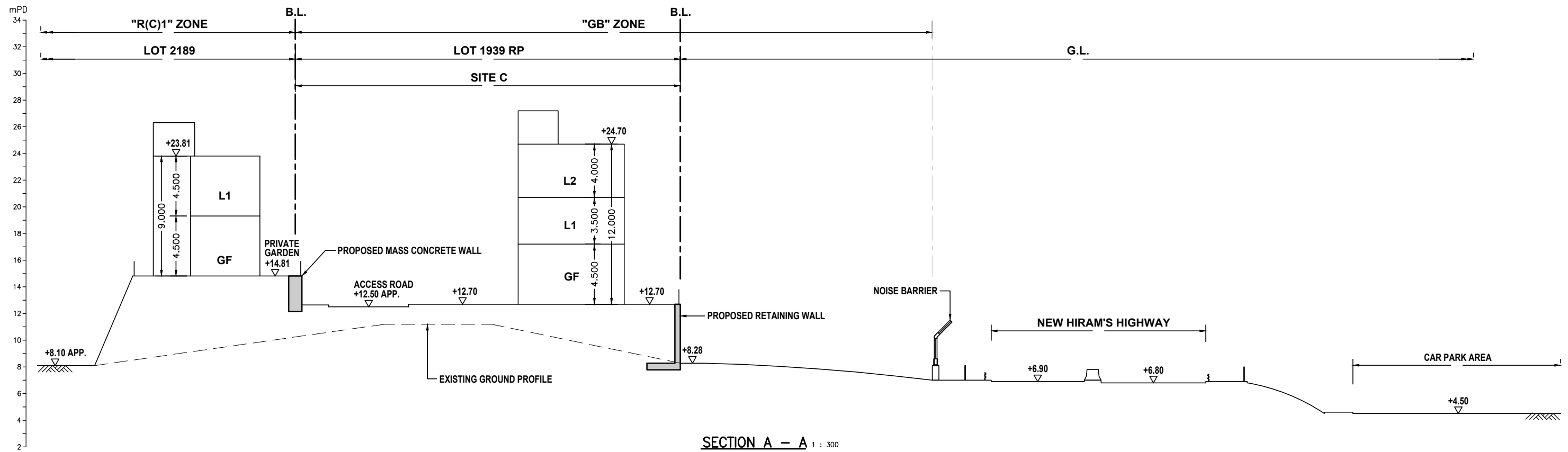
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Figure 4

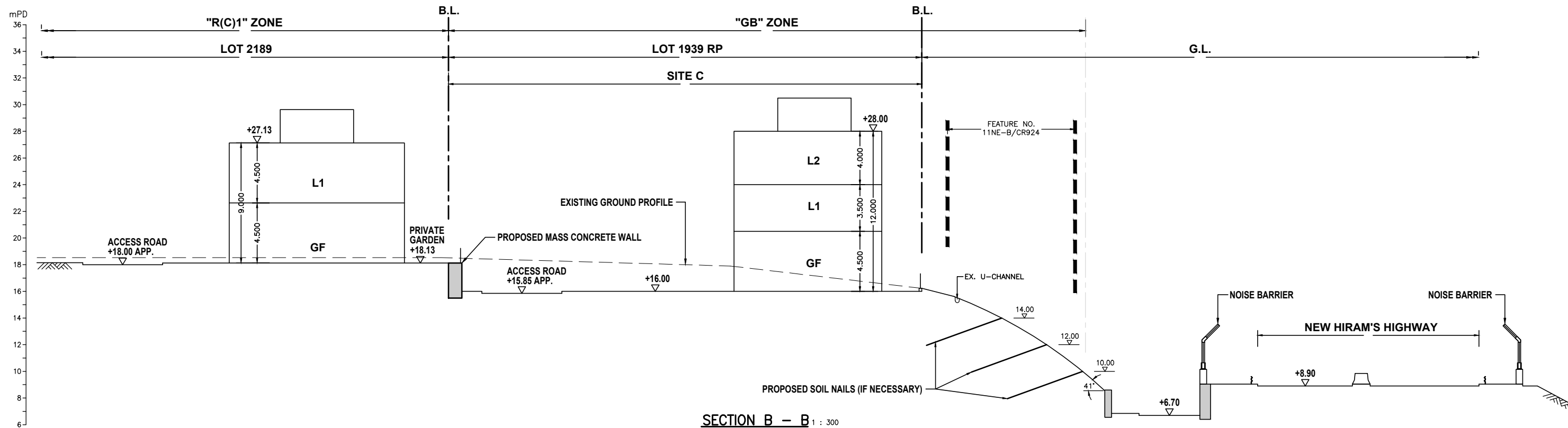
Site Layout Plan

Figure 5

Section A - A & B - B



SECTION A - A 1 : 300



SECTION B - B 1 : 300

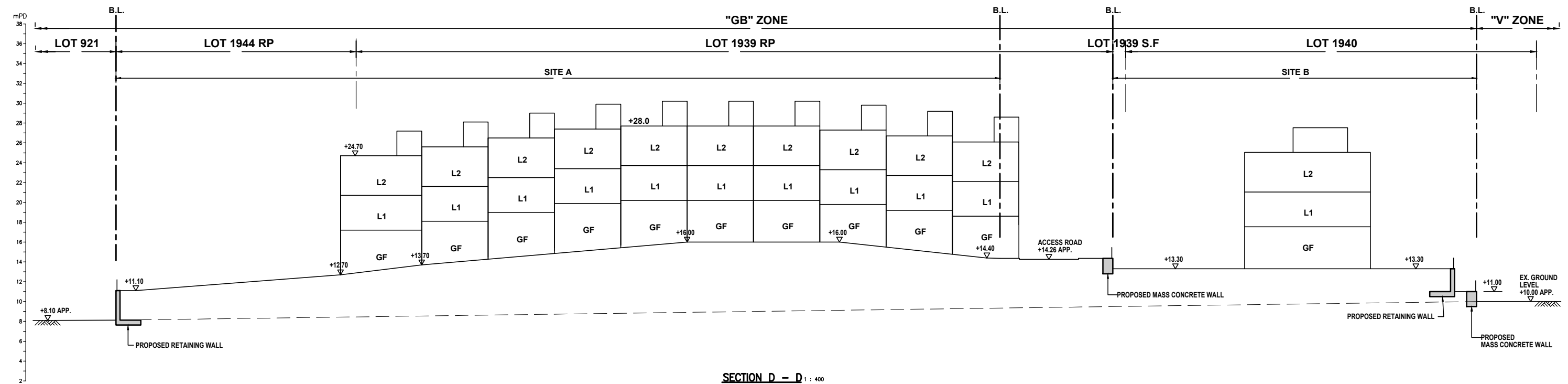
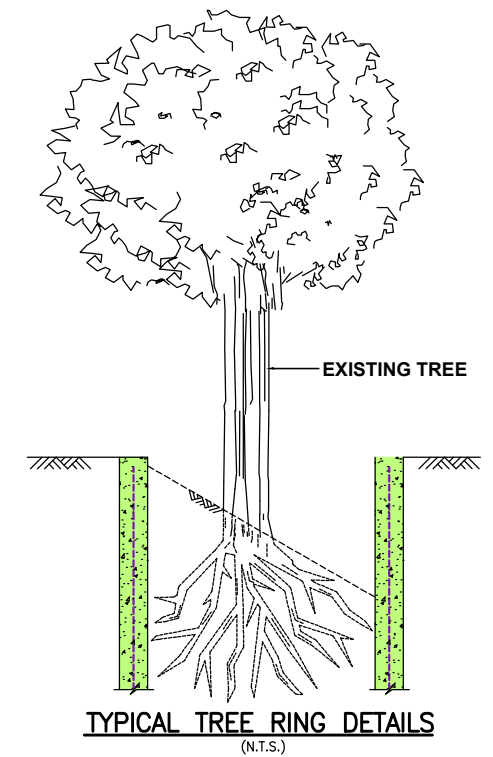
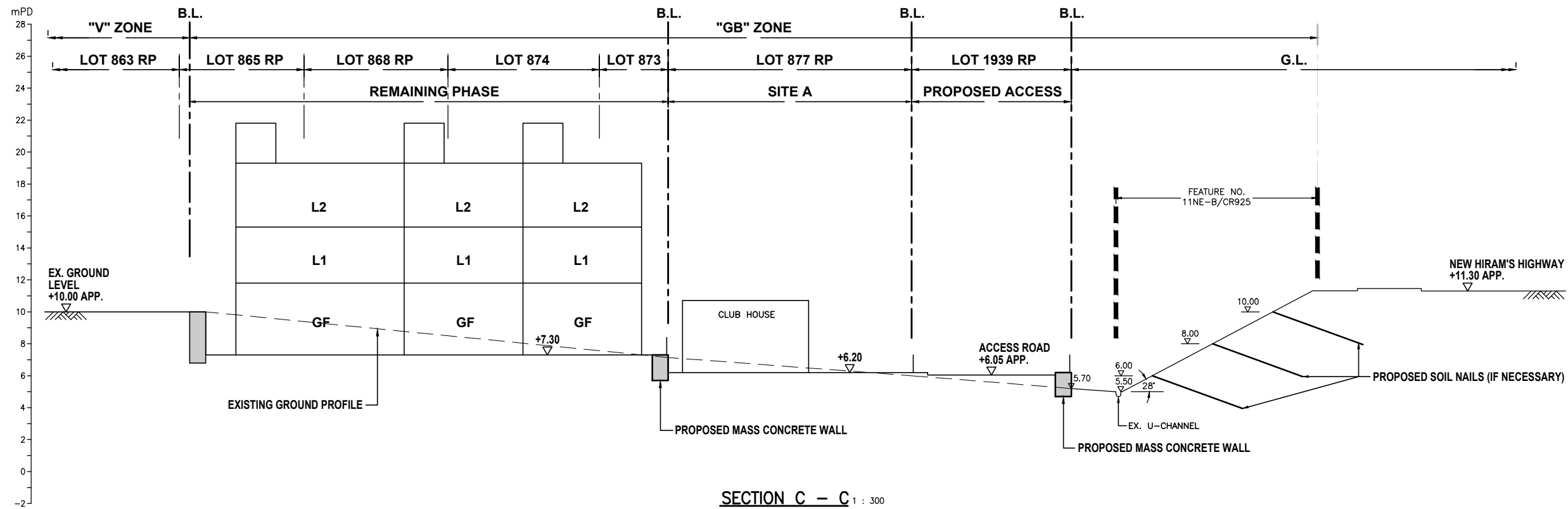
PROJECT :
 APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131)
 TO REZONE THE APPLICATION SITE FROM "GREEN BELT" TO "RESIDENTIAL (GROUP C) 1" FOR PROPOSED HOUSE
 DEVELOPMENT AT VARIOUS LOTS IN D.D.244 AND ADJOINING GOVERNMENT LAND, NAM PIN WAI, SAI KUNG.

DRAWING TITLE :
SECTION A - A & B - B

SCALE :	1 : 300	DRAWN BY :	D.M.
DATE :	27/07/2023	CHECKED BY :	C.L.
DRAWING NO.	FIGURE 05	REV.	E

Figure 6

Section C - C & D – D and Details



PROJECT :
 APPLICATION FOR AMENDMENT OF PLAN UNDER SECTION 12A OF THE TOWN PLANNING ORDINANCE (CAP. 131)
 TO REZONE THE APPLICATION SITE FROM "GREEN BELT" TO "RESIDENTIAL (GROUP C) 1" FOR PROPOSED HOUSE
 DEVELOPMENT AT VARIOUS LOTS IN D.D.244 AND ADJOINING GOVERNMENT LAND, NAM PIN WAI, SAI KUNG.

DRAWING TITLE :
**SECTION C - C & D - D
 AND DETAILS**

SCALE : 1 : 400

DRAWN BY : D.M.

DATE : 27/07/2023

CHECKED BY : C.L.

DRAWING NO. **FIGURE 06**

REV. **E**

APPENDIX

Appendix A

Photographs



Photo A

General View of the Site, Looking North



Photo B

General View of the western portion of the Site, Looking Northeast



Photo C
Close View of the Northern End of the Site, Looking West



Photo D
Close View of the Southeastern End of the Site, Looking East



Photo E

General View of the Northern End of Feature No. 11NE-B/F186, Looking South



Photo F

General View of the Mid Portion of Feature No. 11NE-B/F186, Looking Northeast



Photo G

General View of the Feature No. 11NE-B/FR 295, Looking North



Photo H

General View of the Feature No. 11NE-B/FR 295, Looking Southeast



Photo I

General View of the Feature No. 11NE-B/CR924, Looking southwest



Photo J

General View of the Feature No. 11NE-B/CR924, Looking Northwest

Appendix B

SIMAR Records

Slope Maintenance Responsibility Report

(11NE-B/F186)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	11NE-B/F186	Sub-Division	1
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot1939A	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
2	11NE-B/F186	Sub-Division	2
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot1939B	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
3	11NE-B/F186	Sub-Division	3
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot1942	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
4	11NE-B/F186	Sub-Division	4
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot755	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
5	11NE-B/F186	Sub-Division	5
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot756	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
6	11NE-B/F186	Sub-Division	6
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot758	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	
7	11NE-B/F186	Sub-Division	7
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2	
	Responsible Lot/Party	DD244 Lot760	Maintenance Agent Not Applicable
	Remarks	Slope information being reviewed.	

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8	11NE-B/F186		Sub-Division	8
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2		
	Responsible Lot/Party	DD244 Lot759	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
9	11NE-B/F186		Sub-Division	9
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2		
	Responsible Lot/Party	DD244 Lot761	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
10	11NE-B/F186		Sub-Division	10
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2		
	Responsible Lot/Party	DD244 Lot769	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
11	11NE-B/F186		Sub-Division	11
	Location	SLOPE FALLS IN DD244 LOT1939A,1939B,1942,756,755,758,760,759,761,769&767 NEAR SPOT LEVEL 10.2		
	Responsible Lot/Party	DD244 Lot767	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

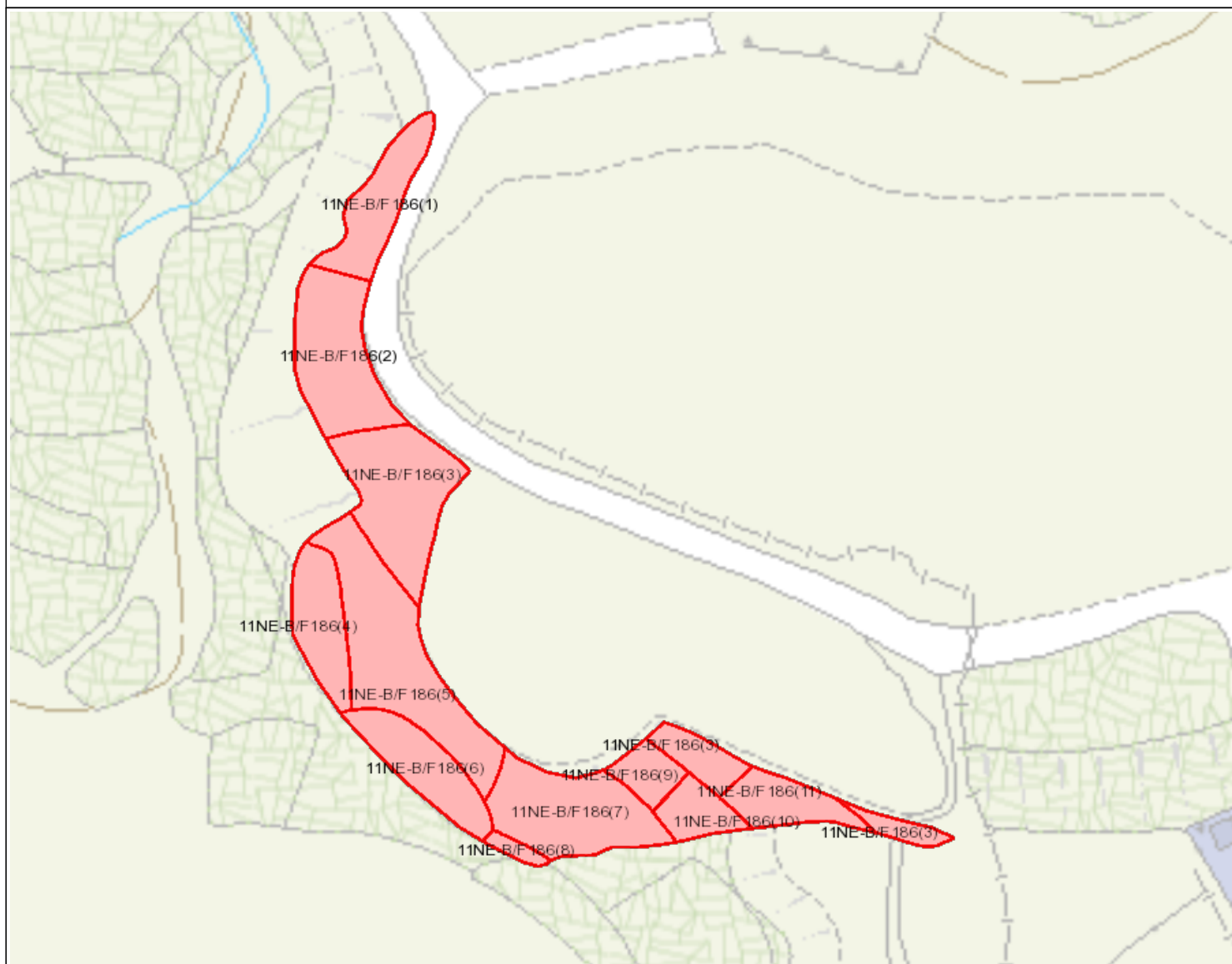
- End of Report -

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**

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Slope Maintenance Responsibility Report

(11NE-B/CR924)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	11NE-B/CR924	Sub-Division	Not Applicable
	Location	ADJOINING NEW HIRM'S HIGHWAY, OPPOSITE HEUNG CHUNG ROAD	
	Responsible Lot/Party	Highways Department	Maintenance Agent Highways Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent direct.	

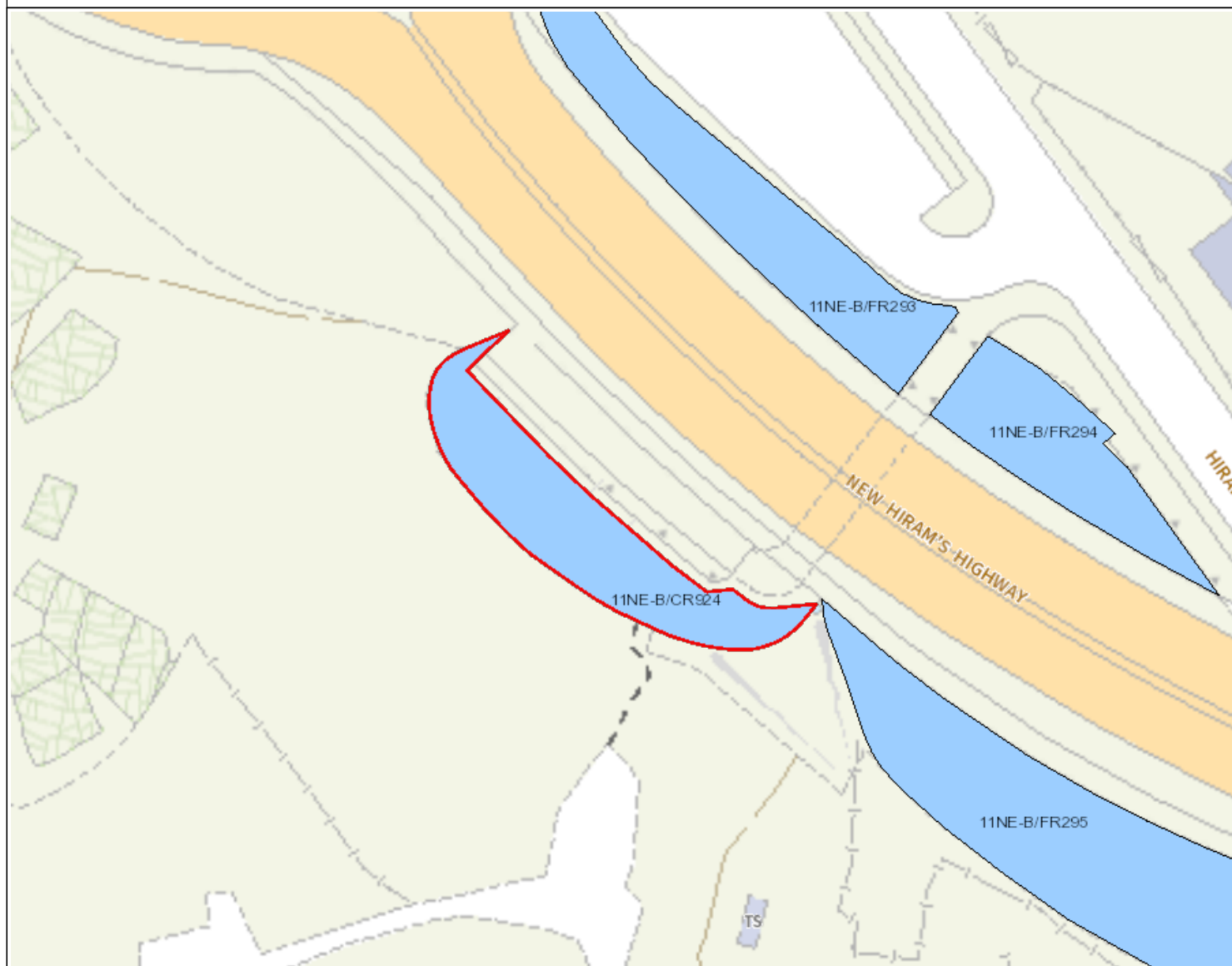
- End of Report -

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Location Plan



Legend

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



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Search Criteria: 11NE-B/CR924

Slope Maintenance Responsibility Report

(11NE-B/CR924)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	11NE-B/CR924	Sub-Division	Not Applicable
	Location	ADJOINING NEW HIRM'S HIGHWAY, OPPOSITE HEUNG CHUNG ROAD	
	Responsible Lot/Party	Highways Department	Maintenance Agent Highways Department
	Remarks	For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent direct.	

- End of Report -

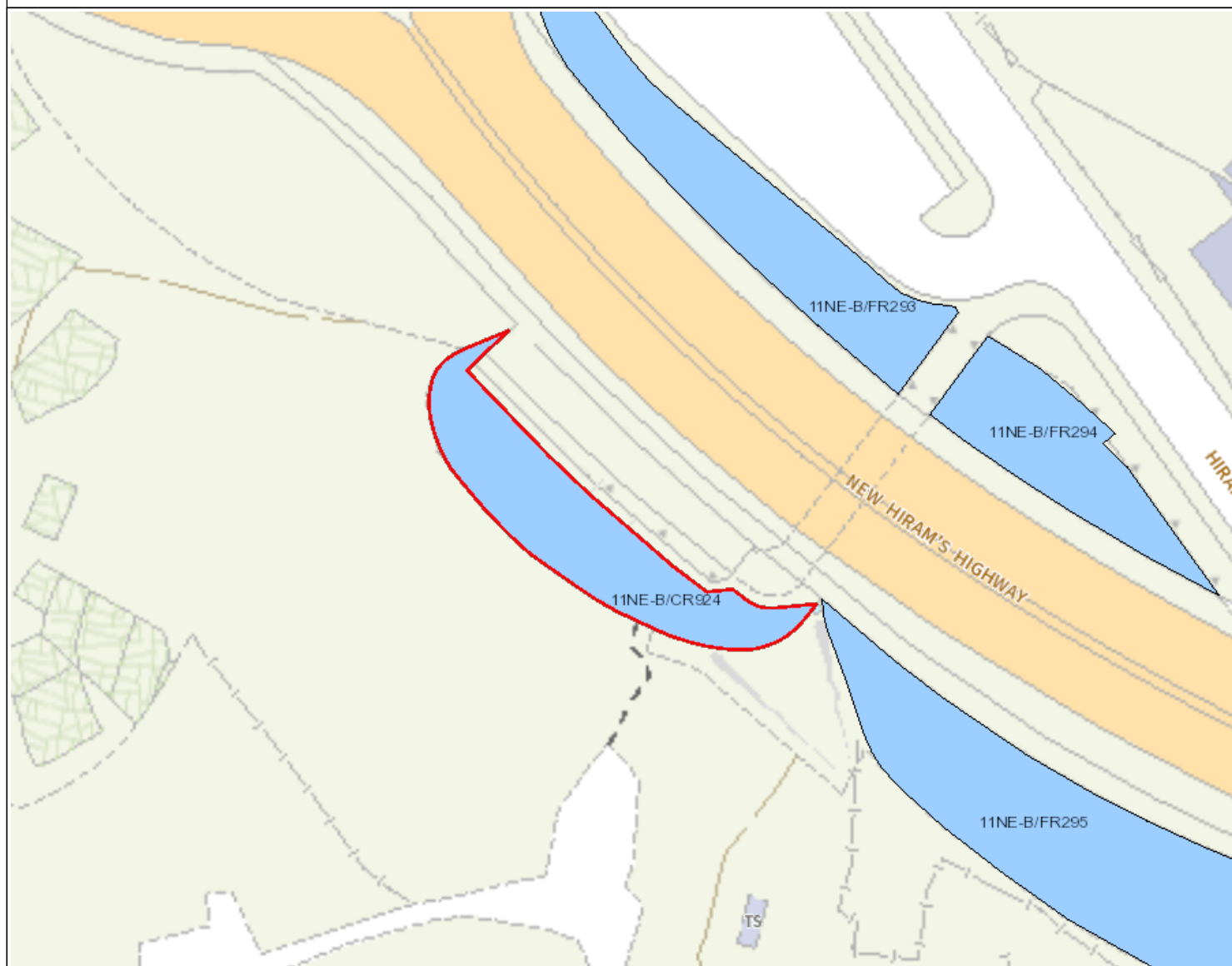
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Search Criteria: 11NE-B/CR924

Location Plan



Legend

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



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Search Criteria: 11NE-B/CR924

Appendix C

Slope Records Retrieved from CEDD

BASIC INFORMATION

Location: 80M SE OF INTERSECTION OF NAM PIN WA ROAD AND MOK TSE CHE NEW VILLAGE ROAD, SAI KUNG

Registration Date: 19-11-1997

Ranking Score (NPRS): 0 (Notional)

Date of Construction/
Modification: Pre-1977

Data Source: SIRST

Approximate Coordinates: Easting : 843686 Northing : 823610

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt

Distance of Facility from Crest (m): 0

Facility at Toe: Undeveloped green belt

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 3

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 8 Length (m): 110 Average Angle (deg): 40

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Private Feature	Party: DD244 Lot1939A	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(2) Sub Div.: 2	Private Feature	Party: DD244 Lot1939B	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(3) Sub Div.: 3	Private Feature	Party: DD244 Lot1942	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(4) Sub Div.: 4	Private Feature	Party: DD244 Lot755	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(5) Sub Div.: 5	Private Feature	Party: DD244 Lot756	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(6) Sub Div.: 6	Private Feature	Party: DD244 Lot758	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(7) Sub Div.: 7	Private Feature	Party: DD244 Lot760	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(8) Sub Div.: 8	Private Feature	Party: DD244 Lot759	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(9) Sub Div.: 9	Private Feature	Party: DD244 Lot761	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(10) Sub Div.: 10	Private Feature	Party: DD244 Lot769	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998
(11) Sub Div.: 11	Private Feature	Party: DD244 Lot767	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 05-01-1998

DETAILS OF SLOPE / RETAINING WALL

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

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
 Surface Protection (%): Bare: 1 Vegetated: 99 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

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

GIU Cell Ref.: 11NE5A4
Map Sheet Reference (1:1000): 11NE- 5A
Aerial Photos: 23146-7 (1978),

Nearest Rainguage Station (Station Number): Staff Quarter (Block C), Pik Uk Prison, Clearwater Bay(N08)

Data Collected On: 03-03-1997
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1978 After: 1977

Related Reports/Files or Documents: File/Report: Development Ref. No.: GCMd 3/5/9301/89, 3/7/3 pt 2 f41-2,44-6,53,59,79
File/Report: Development Ref. No.: GCMd 3/5/9301/89, 3/7/3 pt 2 f41-2,44-6,53,59,79
File/Report: LA Ref. No.: GCMd 5/3/8 pt V f14,16,18,28
File/Report: LA Ref. No.: GCMd 5/3/8 pt V f14,16,18,28
File/Report: LA Ref. No.: GCMd 5/3/8 pt19 f62,75,88,128 pt 36 f78,79
File/Report: LA Ref. No.: GCMd 5/3/8 pt19 f62,75,88,128 pt 36 f78,79
File/Report: Previous Instability Ref. No.: GCMd 5/3/8 pt V f34,36,48, pt30 f5,8
File/Report: Previous Instability Ref. No.: GCMd 5/3/8 pt V f34,36,48, pt30 f5,8

Remarks: Public/Private Dep - GCMd 2/E1/11NE-B pt 2 case 26,27,29, pt 3 case 1

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: 17/12/2020)



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: ME

Section No: 1-1

Height(m):

Type of Toe Facility: Undeveloped green belt

Distance from Toe(m): 0

Type of Crest Facility: Undeveloped green belt

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

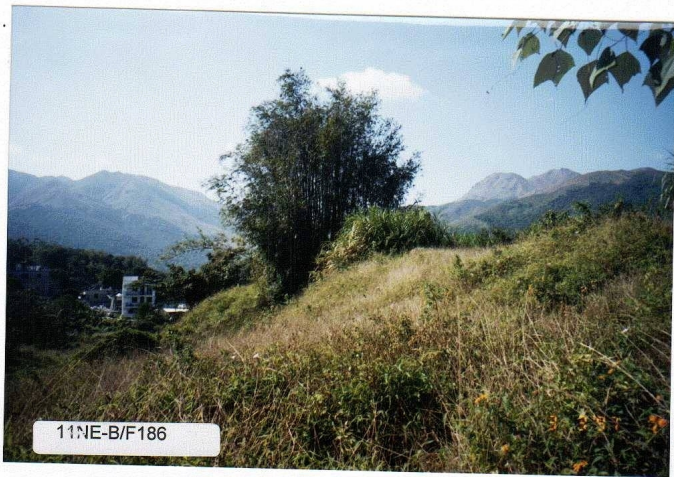
Check / repair Services:

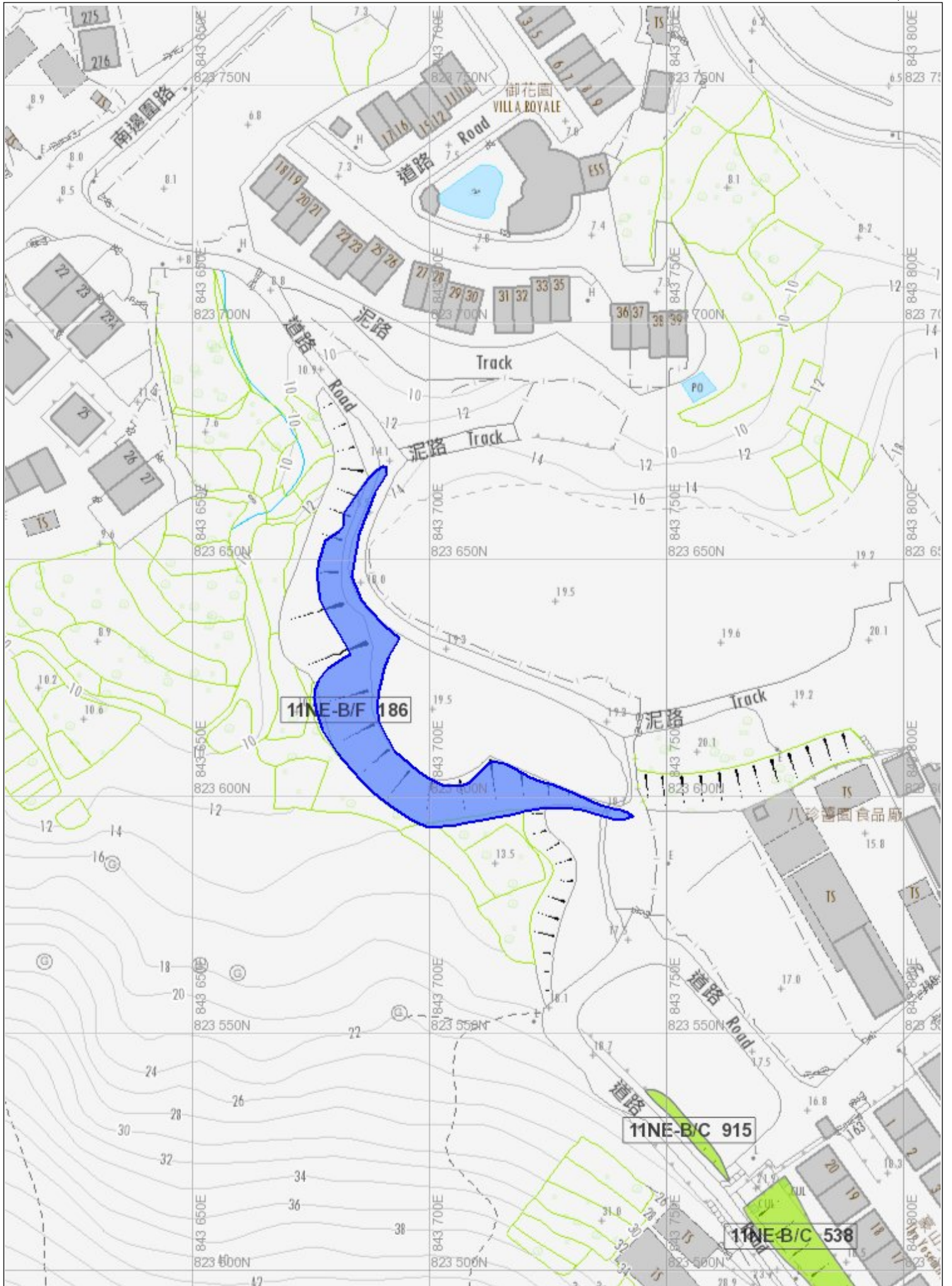
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO







BASIC INFORMATION

Location: 70m north of No. 130, Wo Mei, SK

Registration Date: 18-07-2002

Ranking Score (NPRS): 2 (EI)

Date of Construction/
Modification: Post-1977

Data Source: EI(HyD)

Approximate Coordinates: Easting : 843901 Northing : 823645

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with heavy traffic density

Distance of Facility from Crest (m): 0

Facility at Toe: Road/footpath with moderate traffic density

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 2

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 8.8 Length (m): 85 Average Angle (deg): 30

WALL PART

(1) Max. Height (m): 8.8 Length (m): 16.3 Face Angle (deg): 90



MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: HyD Agent: HyD Land Cat.: 5b(iii) Reason Code: 56 MR Endorsement Date: 23-01-2003

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 07-11-2012
 Data Source: EI(HyD)
 Slope Part Drainage: (1) Position: Crest Size(mm): 300
 (2) Position: Toe Size(mm): 450

 Wall Part Drainage: (1) Position: Crest Size(mm): 300

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: Random rubble Wall Location: Retaining wall with level platform
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: Cable Size(mm): 0 Location: Crest Remark: Size cannot be determined
- (2) Utilities Type: Cable Size(mm): 0 Location: Toe Remark: Size cannot be determined
- (3) Utilities Type: Electricity Size(mm): 0 Location: Crest Remark: Size cannot be determined
- (4) Utilities Type: Electricity Size(mm): 0 Location: Toe Remark: Size cannot be determined
- (5) Utilities Type: Gas Size(mm): 0 Location: Toe Remark: Size cannot be determined
- (6) Utilities Type: Sewer/Drain Size(mm): 600 Location: Crest Remark: N/A
- (7) Utilities Type: Water Main Size(mm): 80 Location: Toe Remark: N/A
- (8) Utilities Type: Water Main Size(mm): 150 Location: Toe Remark: N/A
- (9) Utilities Type: Water Main Size(mm): 250 Location: Crest Remark: N/A

CHECKING STATUS INFORMATION

Tagmark: 23117_0_4 Part: 0 Checking Status: No outstanding comments Checking Certificate No.: N/A

BACKGROUND INFORMATION

GIU Cell Ref.: 11NE5A-5
Map Sheet Reference (1:1000): 11NE- 5A
Aerial Photos: ACW38788 (2002), CW38789 (2002)

Nearest Rainguage Station
(Station Number): Staff Quarter (Block C), Pik Uk Prison, Clearwater Bay(N08)

Data Collected On: 07-11-2012
Date of Construction, Subsequent
Modification and Demolition: Modification: Constructed Before: 2001 After: 2000

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: 17/12/2020)



STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: ME

Section No: 1-1

Height(m):

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

Distance from Toe(m): 0

Type of Crest Facility: Road/footpath with heavy 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:

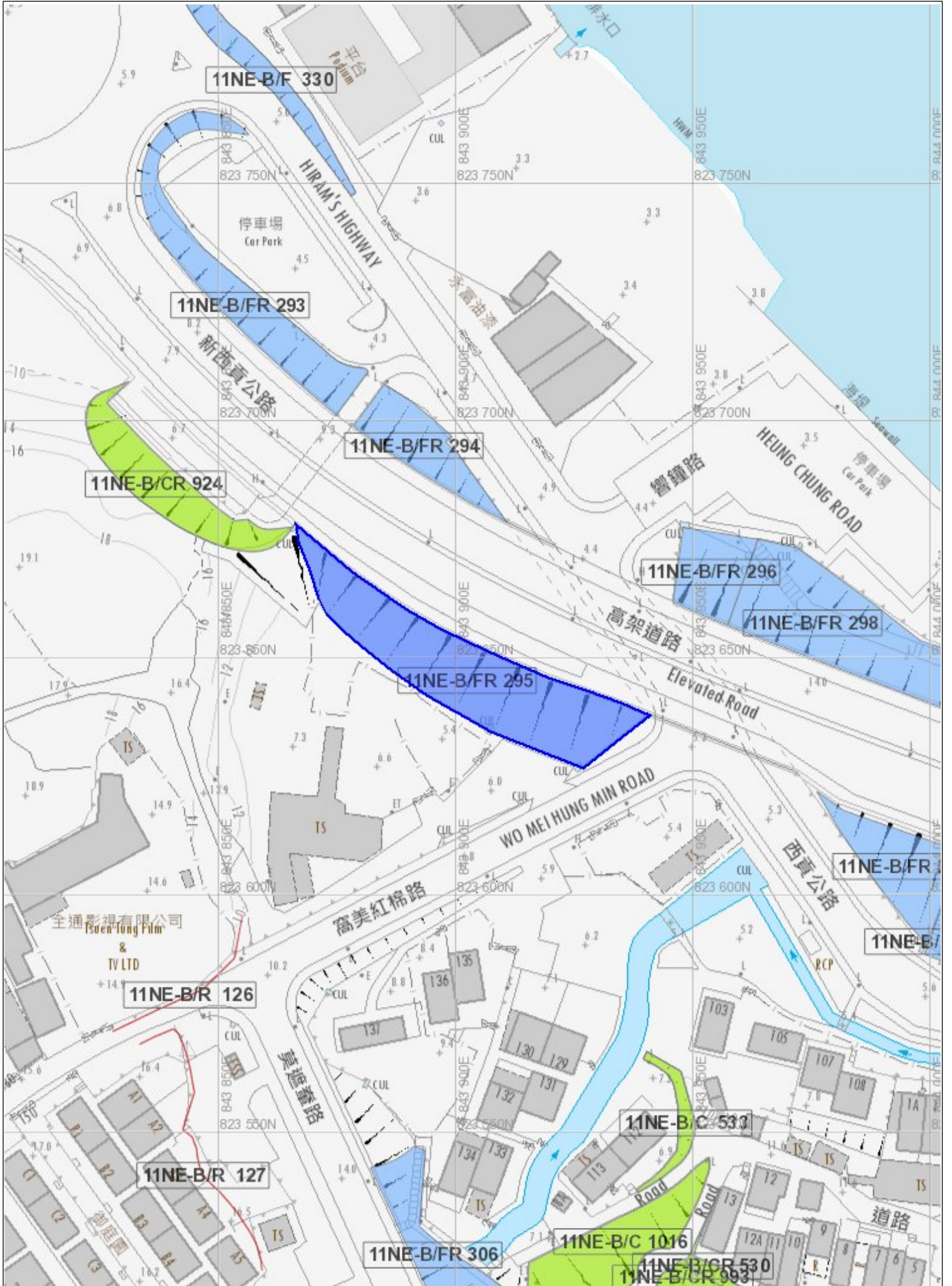
Action By: N/A

Non-routine Maintenance:

Action By: N/A

PHOTO







BASIC INFORMATION

Location: HIRAM'S HIGHWAY, SK

Registration Date: 28-05-2003

Ranking Score (NPRS): 1 (LPMit)

Date of Construction/Modification: Post-1977

Data Source: EI(HyD)

Approximate Coordinates: Easting : 843838 Northing : 823685

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt

Distance of Facility from Crest (m): 0

Facility at Toe: Subway

Distance of Facility from Toe (m): 0

Consequence-to-life Category: 2

Remarks: N/A

SLOPE PART

(1) Max. Height (m): 3 Length (m): 50 Average Angle (deg): 35

WALL PART

(1) Max. Height (m): 5 Length (m): 50 Face Angle (deg): 90

(1) Max. Height (m): 5 Length (m): 50 Face Angle (deg): 90



MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: HyD Agent: HyD Land Cat.: 5b(iii) Reason Code: 56 MR Endorsement Date: 10-10-2003

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 07-01-2015
 Data Source: El(HyD)
 Slope Part Drainage: (1) Position: Crest Size(mm): 300
 (2) Position: Toe Size(mm): 300

 Wall Part Drainage: (1) Position: Crest Size(mm): 300

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: 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 (2)

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

SERVICES

N/A

CHECKING STATUS INFORMATION

Tagmark: 23092_0_4 Part: 0 Checking Status: No outstanding comments Checking Certificate No.: N/A

BACKGROUND INFORMATION

GIU Cell Ref.: 11NE5A-5
Map Sheet Reference (1:1000): 11NE- 5A
Aerial Photos: CW38788 (2002), CW38789 (2002)

Nearest Rainguage Station (Station Number): Staff Quarter (Block C), Pik Uk Prison, Clearwater Bay(N08)

Data Collected On: 07-01-2015
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 2002 After: 2001

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: 17/12/2020)



STAGE 1 STUDY REPORT

Inspected On: 20-01-2003
Weather: Mainly Fine
District: ME

Section No: 1-1
Height(m): H1 : 5 , H2 : 5
Type of Toe Facility: Subway

Distance from Toe(m): 0
Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0
Consequence Category: 2
Engineering Judgement: P

Section No: 2-2
Type of Toe Facility: N/A

Distance from Toe(m): 0
Type of Crest Facility: N/A

Distance from Crest(m): 0
Consequence Category: 2
Engineering Judgement: P

Sign of Seepage: Slope : No sign of seepage
Wall : No sign of seepage

Criterion A satisfied: N

Sign of Distress: Slope : N/A
Wall : N/A

Criterion D satisfied: N

Non-routine maintenance required: N

Note: N/A

Masonry wall/Masonry facing: Y

Note: Square rubble facing

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: N

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services: N

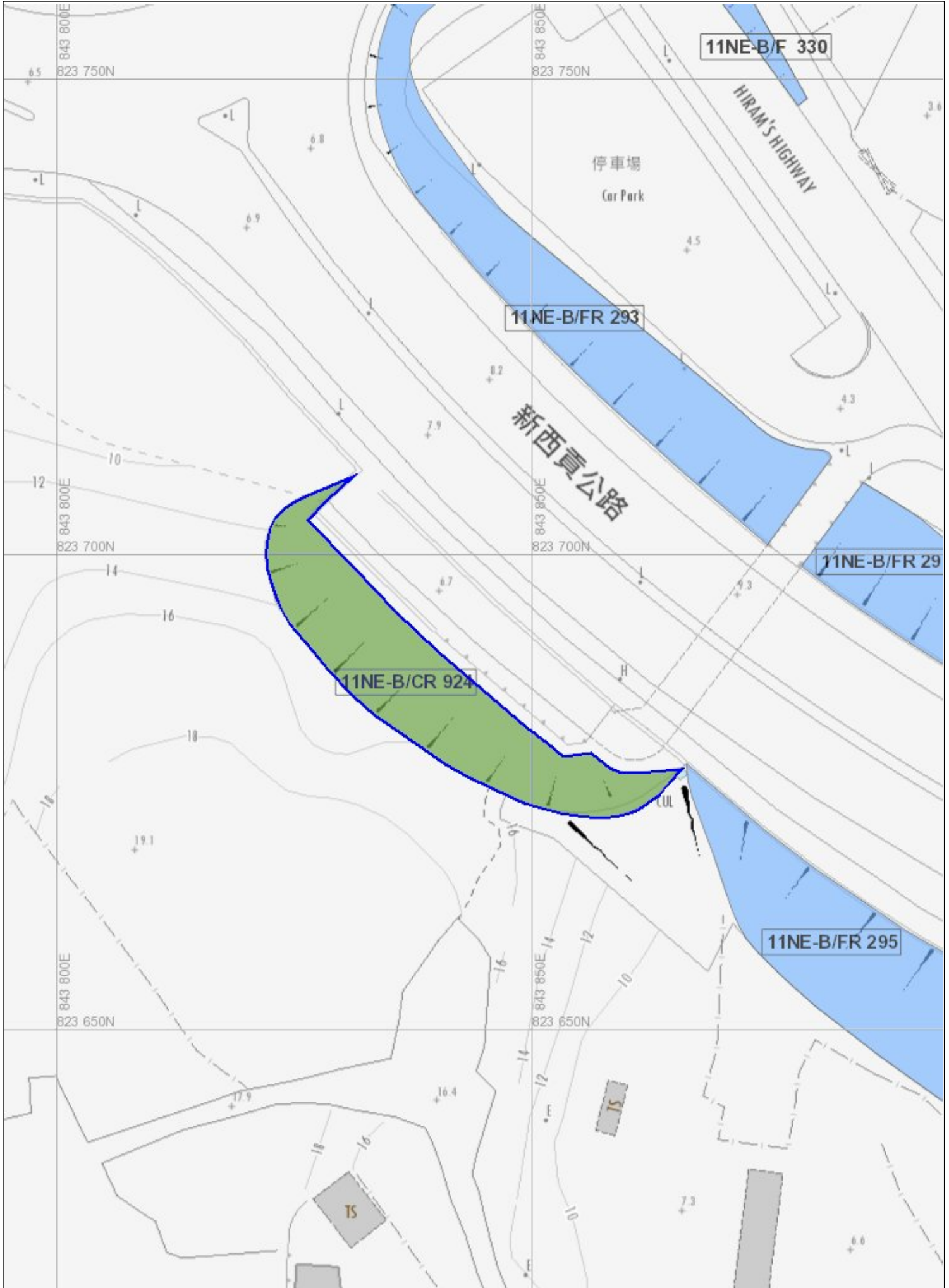
Action By: N/A

Non-routine Maintenance: N

Action By: N/A

PHOTO





Appendix D

Extraction of Previous GI Records Prepared by Gammon Construction Limited in June 1999



Gammon Construction Limited

Geotechnical Contracting Department

DRILLHOLE No.
ABH2
SHEET 1 of 3

DRILLHOLE RECORD

PROJECT LOCATION		Hiram's Highway Improvement Phase 3: Improvement between Nam Wai and Ho Chung and Upgrading Local Access Roads	
METHOD	Rotary	CO-ORDINATES	CONTRACT No. HY/98/13
MACHINE & No.	20-087	E 843839.04 N 823683.01	DATE from 01/06/1999 to 05/06/1999
FLUSHING MEDIUM	Water	ORIENTATION	Vertical
		GROUND LEVEL	15.68 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
01/06/99	PX								1	Small disturbed sample	0.50					Firm, brownish red, slightly fine to medium sandy clayey SILT. (COLLUVIUM)
				100				2, 3	U76 undisturbed sample	1.00						
								4, 5	U100 undisturbed sample	2.10						
								1, 2, 2, 3, 3, 3 N=11	SPT liner sample	2.55						
				40					U76 undisturbed sample	3.00						
								1, 2, 2, 2, 3, 3 N=10	SPT liner sample	4.10						
									U76 undisturbed sample	4.55						
01/06/99		3.20							U76 undisturbed sample	5.00						
02/06/99		Dry		100					U76 undisturbed sample	6.10	9.68	6.00				
								1, 1, 1, 2, 2, 3 N=8	SPT liner sample	6.55						
									U76 undisturbed sample	7.00						
				100					U76 undisturbed sample	8.00						
								2, 3, 4, 4, 5, 6 N=19	SPT liner sample	8.10						
									U76 undisturbed sample	8.55						
				100					U76 undisturbed sample	9.00						
	PX 9.75 HX			80		0	0	NI	U76 undisturbed sample	9.75	5.93	9.75				Extremely weak, light grey mottled yellowish
									U76 undisturbed sample	9.95	5.73	9.95				

- Small disturbed sample
- Large disturbed sample
- SPT liner sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- Piston sample
- Water sample
- Piezometer / standpipe tip
- Standard penetration test
- Pressuremeter Test
- Permeability test
- Impression packer test
- In-situ vane shear test

LOGGED LRC
DATE 09/06/1999
CHECKED LRC
DATE 10/06/1999

REMARKS
Piezometer installed at 15.17m depth.



Gammon Construction Limited

Geotechnical Contracting Department

DRILLHOLE No.
ABH2
SHEET **2** of **3**

DRILLHOLE RECORD

PROJECT LOCATION	Hiram's Highway Improvement Phase 3: Improvement between Nam Wai and Ho Chung and Upgrading Local Access Roads		
METHOD	Rotary	CO-ORDINATES	CONTRACT No. HY/98/13
MACHINE & No.	20-087	E 843839.04 N 823683.01	DATE from 01/06/1999 to 05/06/1999
FLUSHING MEDIUM	Water	ORIENTATION	Vertical
		GROUND LEVEL	15.68 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
								3,4 7,10,10,11 N=38	21	□	10.10					and streaked black, completely decomposed, fine ash TUFF with iron and manganese stained relict joints. (Firm, fine sandy clayey SILT)
									22	■	10.55					
				90					23	▨	11.00					9.75 - 9.95m : Moderately strong, moderately decomposed zone. Fractured. (Corestones)
				30	0	0	NI		24	⊕	11.55	4.13	11.55		III/IV	11.55-11.70m: Moderately weak to weak, grey stained orangish brown, moderately to highly decomposed zones. Fractured. (Corestones)
							NR		25	⊕	12.05	3.98	11.70		V	
								3,5 7,9,13,14 N=43	26	■	12.55					
02/06/99		8.40							27	▨	13.00					
03/06/99		10.80		100					28	⊕	13.55	2.13	13.55		III/IV	13.55-13.73m: Moderately weak to weak, grey stained orangish brown, moderately to highly decomposed zones. Fractured. (Corestones)
				38	0	0	NI		29	⊕	14.05	1.95	13.73		V	
								7,9 16,22,31,33 N=102	30	■	14.55					
03/06/99		6.50								⊕	14.85	0.83	14.85		III	Moderately strong, grey stained orangish brown, moderately decomposed, fine ash TUFF with very closely spaced, narrow, rough planar, iron and manganese stained joints, dipping 0°-10°, 30°-40° and 50°-60°. Highly decomposed (3-4mm) around joint margins.
04/06/99		10.85		100	47	0	17.9			⊕	15.15				IV	
				71	25	0				⊕	15.67	0.16	15.52		III	15.52-15.75m: No recovery. Inferred highly decomposed zone.
				88	54	35	>20			⊕	16.35	-0.67	16.35		III	
	HX 16.35			98	91	52	12.9			⊕	16.93					Moderately strong, grey stained orangish brown, moderately decomposed, fine ash TUFF with very closely spaced, locally medium spaced, extremely to very narrow, rough planar, iron and manganese stained and locally kaolin coated joints, dipping 10°-20°, 30°-40° and 50°-60°.
				100	70	70				⊕	17.26					
				100	95	26				⊕	17.64					
				88	88	49				⊕	18.32					
				100	72	52				⊕	18.57					
				99	89	77				⊕	19.64					
				96	83	0				⊕	19.88					

<ul style="list-style-type: none"> ⊕ Small disturbed sample ⊕ Large disturbed sample □ SPT liner sample ▨ U76 undisturbed sample ■ U100 undisturbed sample ▨ Mazier sample ▨ Piston sample 	<ul style="list-style-type: none"> ⊕ Water sample ⊕ Piezometer / standpipe tip ⊕ Standard penetration test ⊕ Pressuremeter Test ⊕ Permeability test ⊕ Impression packer test ⊕ In-situ vane shear test 	<p>LOGGED <u>LRC</u></p> <p>DATE <u>09/06/1999</u></p> <p>CHECKED <u>LRC</u></p> <p>DATE <u>10/06/1999</u></p>	<p>REMARKS</p>
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Gammon Construction Limited

Geotechnical Contracting Department

DRILLHOLE No.
ABH2

SHEET 3 of 3

DRILLHOLE RECORD

PROJECT LOCATION Hiram's Highway Improvement Phase 3: Improvement between Nam Wai and Ho Chung and Upgrading Local Access Roads

METHOD Rotary

CO-ORDINATES

CONTRACT No. HY/98/13

MACHINE & No. 20-087

E 843839.04
N 823683.01

DATE from 01/06/1999 to 05/06/1999

FLUSHING MEDIUM Water

ORIENTATION Vertical

GROUND LEVEL 15.68 mPD

Drilling Progress	Casing depth/size	Water Depth (m)	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.O.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description	
									No.	Type	Depth						
				90	32	0											
				100	69	45	18.9			T2101	20.28			▽			As sheet 2 of 3 20.15-20.28m: Moderately weak, moderately decomposed zone.
				100	85	26				T2101	20.86			▽			
04/06/99		8.50		96	31	0				T2101	21.40			▽			
05/06/99		10.88		100	100	39	9.4			T2101	21.92			▽			
				100	100	39	9.4			T2101	21.92			▽			
												-6.88	22.56				End of Investigation hole at 22.56m.

- | | |
|---|---|
| <ul style="list-style-type: none"> ★ Small disturbed sample ▲ Large disturbed sample □ SPT liner sample ▨ U76 undisturbed sample ▩ U100 undisturbed sample ▧ Mazier sample ▦ Piston sample | <ul style="list-style-type: none"> ▲ Water sample □ Piezometer / standpipe tip ↓ Standard penetration test ⊥ Pressuremeter Test ⊥ Permeability test ⊥ Impression packer test ▽ In-situ vane shear test |
|---|---|

LOGGED LRC

DATE 09/06/1999

CHECKED LRC

DATE 10/06/1999

REMARKS

