

## **Appendix 5**

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# Geotechnical Planning Review Report

**Proposed Development of SKH St Christopher’s Complex  
at TLL T77 RP in D.D.34  
Tai Po, New Territories**

**GEOTECHNICAL PLANNING REVIEW REPORT**

**REVISION 2**

**CONTENTS**

1.	INTRODUCTION .....	1
2.	THE SITE AND THE FEATURES .....	1
3.	DESK STUDY .....	2
3.1	Geological Maps.....	2
3.2	Enhanced Natural Terrain Landslide Inventory.....	2
3.3	Historical Landslide Catchment (HLC) Inventory .....	3
3.4	Large Landslide Study.....	3
3.5	Reported Landslide Incidents.....	3
4.	IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES.....	4
4.1	Existing Features within or in the vicinity of the Site .....	4
4.2	Impacts from the Proposed Works to the Registered Slope Features.....	4
5.	CONCLUSION .....	6

**FIGURES**

Figure 1	Site Location Plan
Figure 2	Aerial View of the Proposed Development Site
Figure 3	Lot Index Plan and Feature Location
Figure 4	Geological Map

**APPENDIX**

Appendix A	Photographs
Appendix B	SIMAR Records
Appendix C	Slope Records Retrieved from CEDD
Appendix D	Extraction of Previous GI Records
Appendix E	Schematic Plans for Site Formation Works

1. INTRODUCTION

It is the Geotechnical Planning Review Report (GPRR) for the premises at Lot No. TLL T77 RP in D.D.34 at Tai Po, New Territories.

This GPPR 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 a hill terrain land at Tai Po, New Territories. Site photos of features are presented in Appendix A. 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 records obtained from Lands Department and SIS records obtained from Geotechnical Engineering Office (GEO), there are 3 nos. of registered geotechnical features lies within or in the vicinity of the site (see Figure 3). The features and the responsible lot/ party are tabulated below:

Feature No.	Sub-division No.	Responsible Lot/ Party
7NE-C/C392	1	Highways Department
	2	DD34 TLL T77 RP (Subject Lot)
7NE-C/C440	1	DD34 TLL T77 RP (Subject Lot)
	2	Lands Department
7NE-C/C403	-	TPTL 156

A copy of the SIMAR report and slope records are enclosed in Appendix B and C, respectively. The location of the said feature 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) and the Buildings Department (BD).

Ground investigation was carried out at distance about 15m from the northeastern boundary of the site under the ASD school project, namely "Primary School in Area 12, Tai Po, New Territories", prepared by I-P Foundation Ltd. in June 1999. The borehole and trial pit records indicated that a layer of slightly to moderately decomposed tuff (SDT/ MDT) was encountered at a depth of 1.8m below the existing ground level. (see Appendix D).

3.1 Geological Maps

The geology of the Study Area is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 7 (Sha Tin), 1:20,000-scale HGM20 series. The local geology of the Study Area 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 Lapilli Lithic-Bearing Coarse Ash Crystall Tuff (Jmt\_cat) and Tuffite (Jty\_tt) of the Yim Tin Tsai Formation.

3.1.2 Superficial Geology

Entire Site are surrounded by lapilli of sedimentary rocks.

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. 7-NE-C was conducted using the low altitude (3,900 ft.) 1963 aerial photographs to identify features thought to be landslides with source area greater than 20 m 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 the Site.

4. IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES

4.1 Existing Features within or in the vicinity of the Site

Feature No. 7NE-C/C392

Feature No. 7NE-C/C392 is located at the southwestern boundary of the Site. Based on the SIMAR record, only sub-division no. 2 of the feature is located within the site. According to the SIS record, the feature is about 90m long and 6m high with average slope gradient of 40° to the horizontal.

Feature No. 7NE-C/C440

Feature No. 7NE-C/C440 is located within the site and running from the northern to southeastern boundary of the Site. Based on the SIMAR record, only sub-division no. 1 of the feature is located within the site. According to the SIS record, the feature is about 110m long and 6.5m high with average slope gradient of 30° to the horizontal.

Feature No. 7NE-C/C403

Feature No. 7NE-C/C403 is located abutting to the northwestern boundary of the Site. Based on the SIMAR record, the feature is located outside of the site and belong to Lot No. TPTL 156. According to the SIS record, the feature is about 70m long and 7m high with average slope gradient of 85° to the horizontal.

4.2 Impacts from the Proposed Works to the Registered Slope Features

For the new development at the Site, it is proposed to form a flat ground land which meet with the level of adjoining public road of Tai Po Road, and carry out temporary excavation and lateral support works for construction of basement structure and foundation works at the Site. There is the proposed scheme of site formation works presented in Appendix E.

For the site formation works on the side adjoining the boundary of Japanese International School (JIS), two schemes are considered:

Scheme 1: Removal of Feature no. 7NE-C/C403 along the boundary of Japanese International School (JIS).

After this development, Feature no. 7NE-C/C403 becomes obsolete and removal of this feature reduces the associated geotechnical risk and enables a more efficient use of available space.



For ELS works, it would be carried out after the site formation works is down to the proposed ground level +79.2mPD. The pipe pile wall with lagging plates and 3 layers of waling and corner struts are proposed for basement and footing construction.

Scheme 2: Retain of Feature no. 7NE-C/C403 along the boundary of Japanese International School (JIS).

In case the lot owner of Feature no. 7NE-C/C403 does not agree the removal of this feature, strengthening works for this slope is required. Furthermore, to allow the minimum spacing for the slope for maintenance, the building in the Site is required to set back from the retained slope.

For the site formation works on the side adjoining the government land, since LandsD does not agree to permanently cut back the topographical feature, a new soldier pile wall within the subject site would be created to retain the topographical feature on the adjoining vacant government land.

As the features have stood from some time without evidence of major distress or instability, it is expected that the remaining features will continue under the present condition. However, the stability has to be checked with respect to the proposed development and based on the subsurface conditions and shear strength parameters of soil/rock obtained from site specific ground investigation. 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 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.

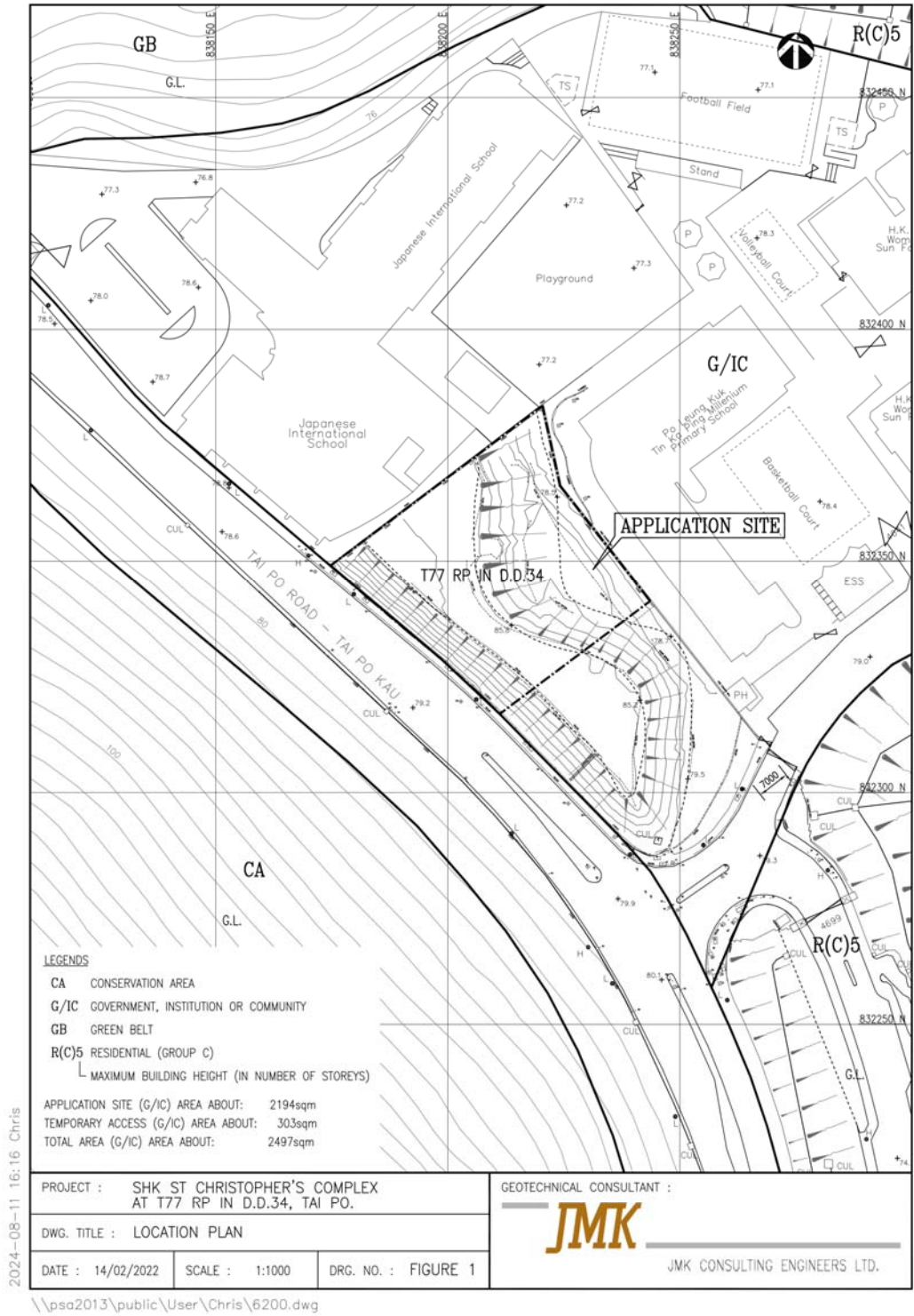
For safety and cost effective, the foundation design and retaining wall stability assessment and excavation planning as well as the design of geotechnical structure should be based on geological horizons inferred from the ground investigation results, groundwater table interpreted from the piezometer/standpipe 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





**Figure 2**  
Aerial View of the Proposed Development Site

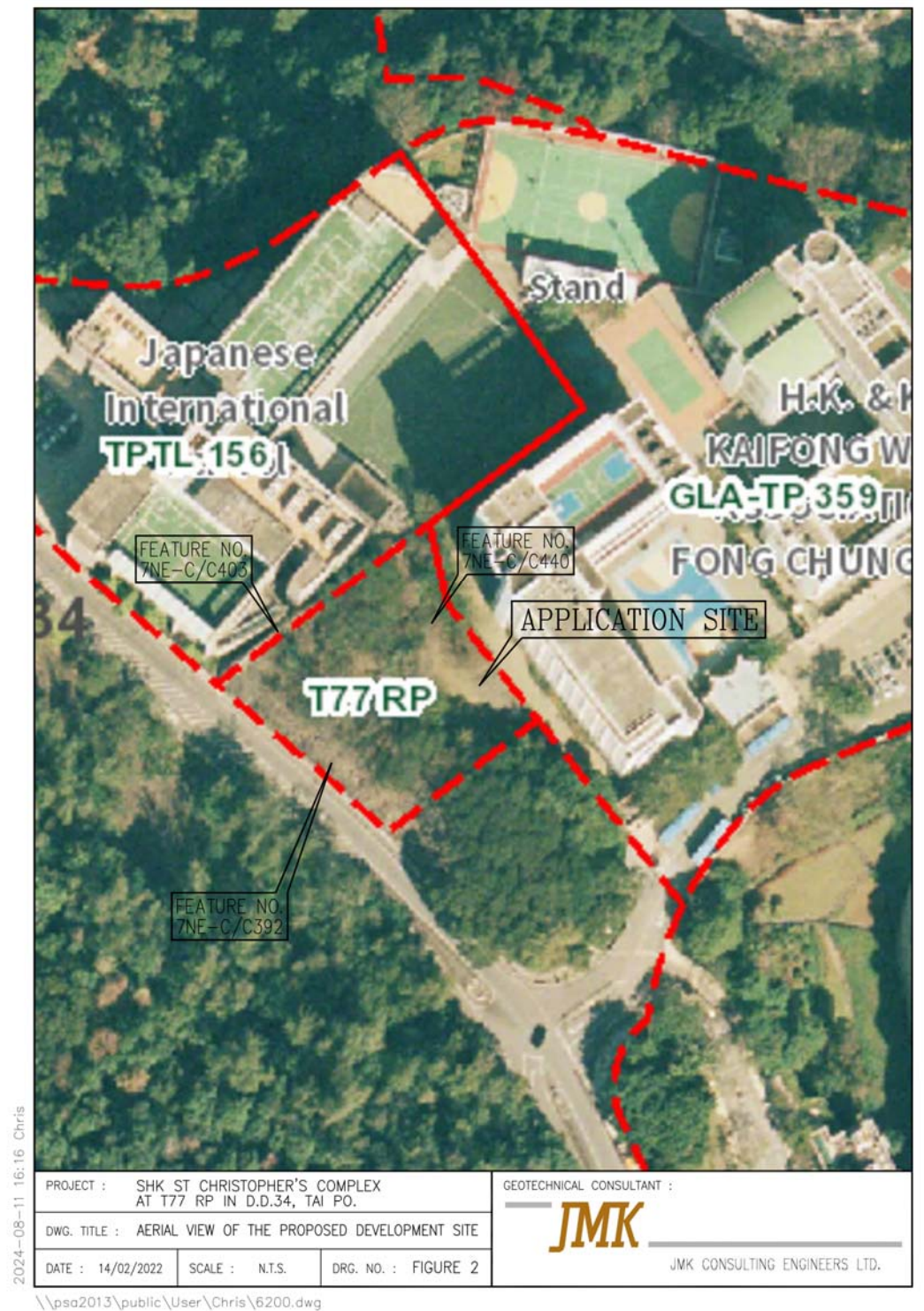
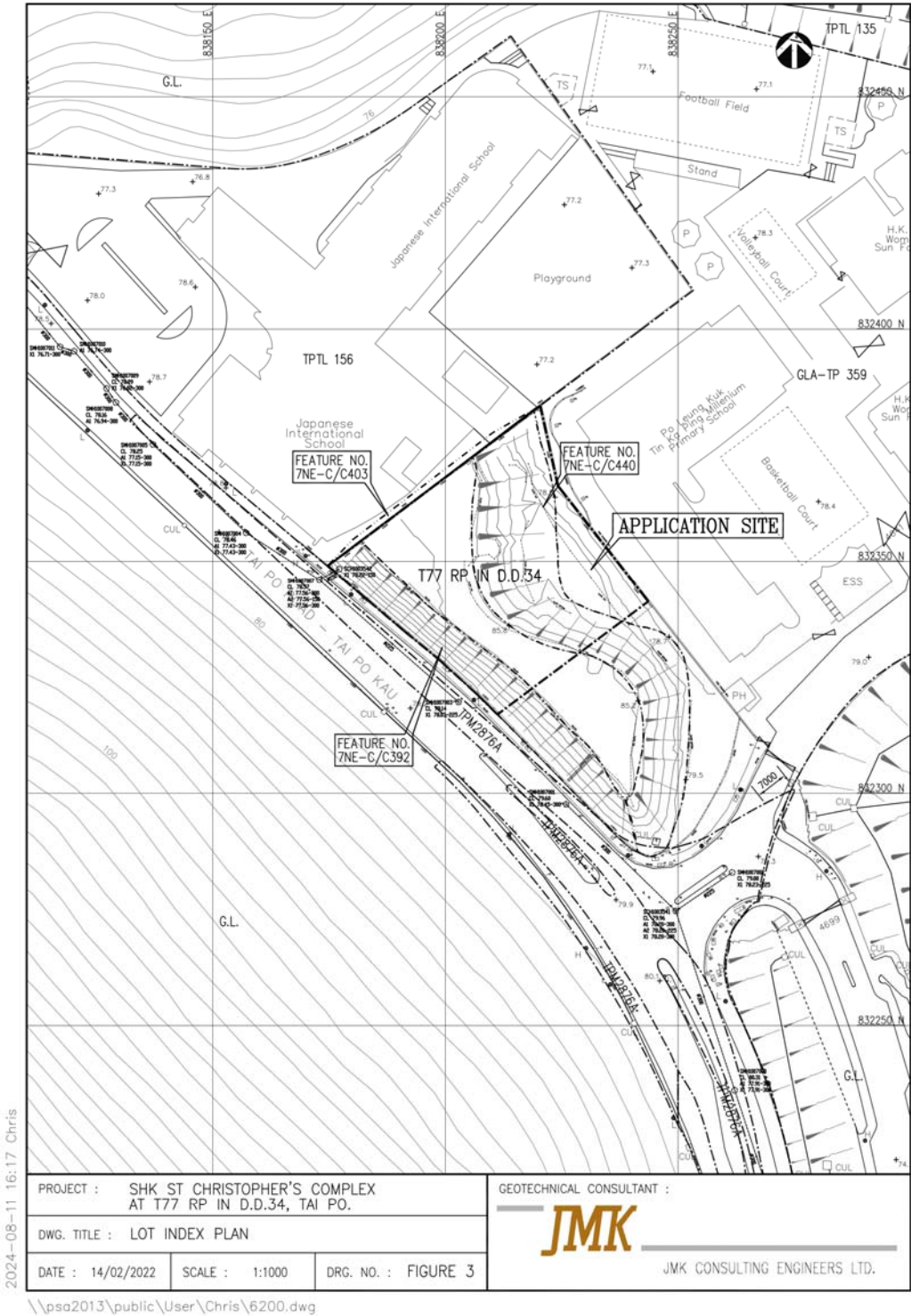




Figure 3

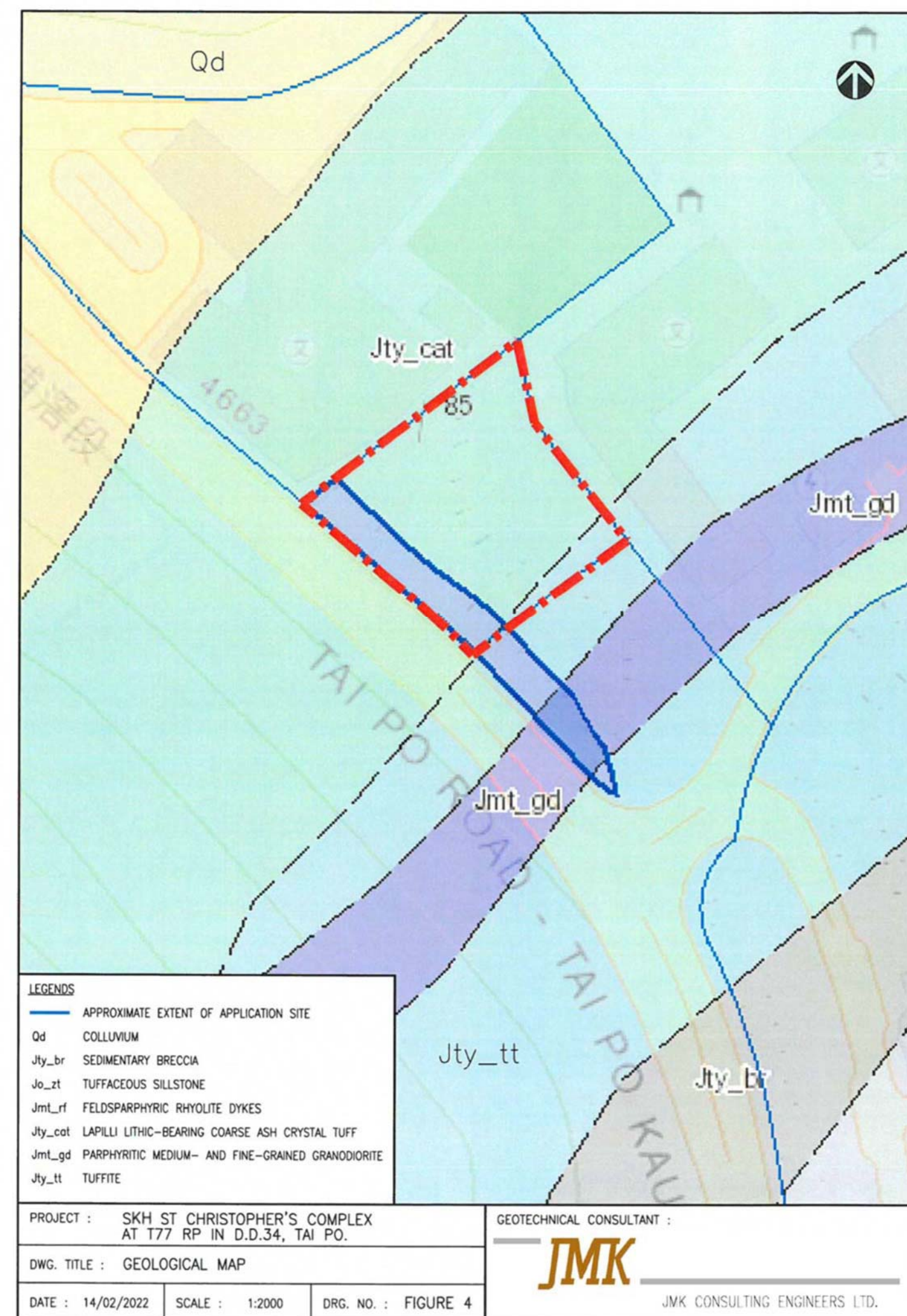
Lot Index Plan and Feature Location



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**Figure 4**  
Geological Map





**APPENDIX**

## Appendix A

Photographs



GENERAL VIEW OF FEATURE NO. 7NE-C/C440



GENERAL VIEW OF NORTHERN PORTION OF FEATURE NO. 7NE-C/C392



GENERAL VIEW OF SOUTHERN PORTION OF FEATURE NO. 7NE-C/C392

PROJECT : SKH ST CHRISTOPHER'S COMPLEX  
AT T77 RP IN D.D.34, TAI PO.

DWG. TITLE : PHOTOS

DATE : 14/02/2022

SCALE : N.T.S.

DRG. NO. : APPENDIX A

GEOTECHNICAL CONSULTANT :

**JMK**

JMK CONSULTING ENGINEERS LTD.



**Appendix B**

SIMAR Record

# Slope Maintenance Responsibility Report

(7NE-C/C392)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	7NE-C/C392	Sub-Division	1
	Location	WITHIN DD34 TLL T77 RP & GOVERNMENT LAND ADJOINING TAI PO 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 directly.	

- End of Report -

### Notes:

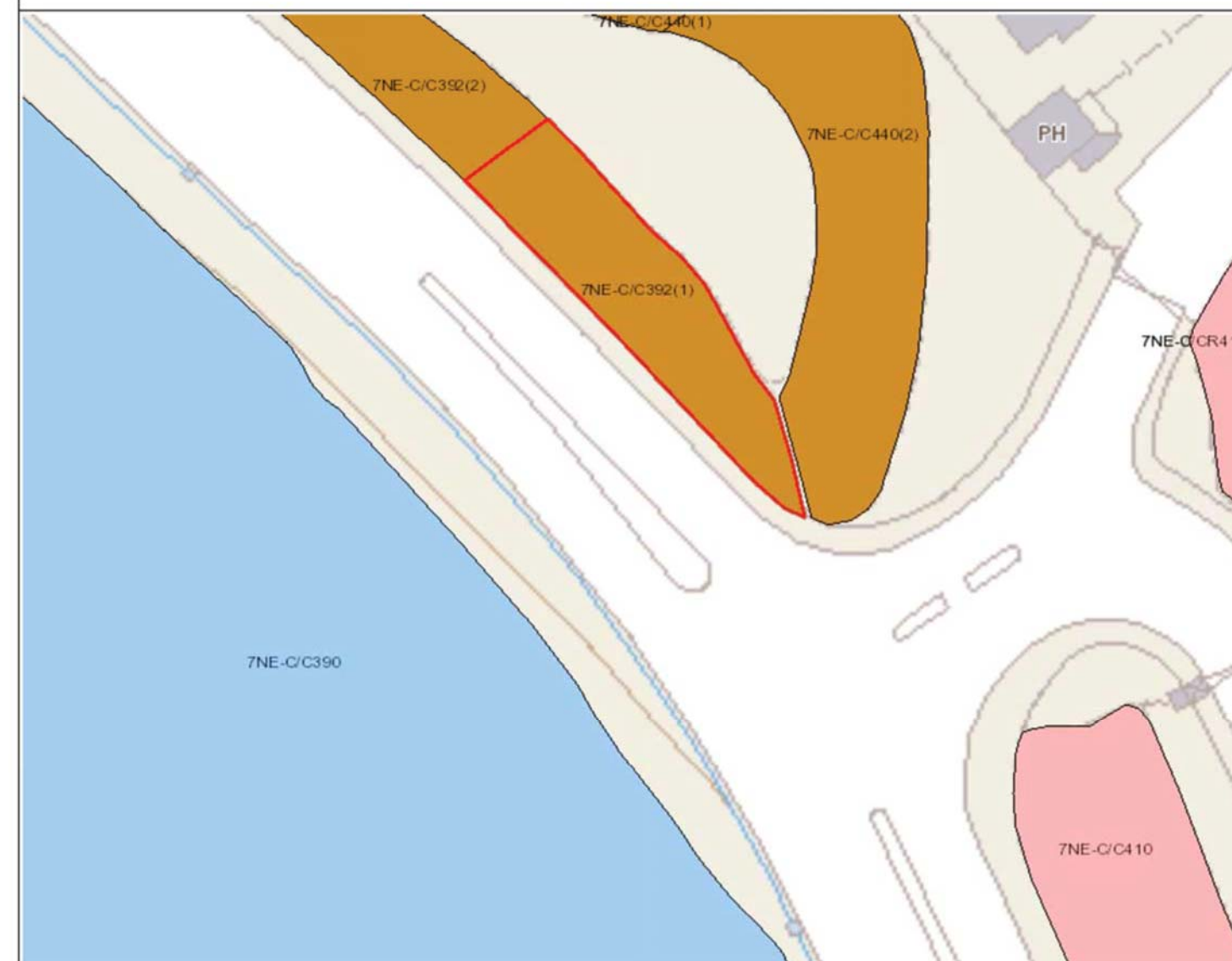
- (i) The location plan in Annex is for identification purposes of slope(s) only.
- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Search Criteria: 7NE-C/C392

Annex

## 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: 7NE-C/C392



# Slope Maintenance Responsibility Report

(7NE-C/C392)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	7NE-C/C392	Sub-Division	2
	Location	WITHIN DD34 TLL T77 RP & GOVERNMENT LAND ADJOINING TAI PO ROAD	
	Responsible Lot/Party	DD34 TLL T77 RP	Maintenance Agent
	Remarks	Not Applicable	

- End of Report -

### Notes:

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Search Criteria: 7NE-C/C392

Annex

## Location Plan



### Legend

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



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Search Criteria: 7NE-C/C392



# Slope Maintenance Responsibility Report

(7NE-C/C440)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	7NE-C/C440	Sub-Division	1
	Location	WITHIN DD34 LOT T77RP & ADJOINING GOVERNMENT LAND	
	Responsible Lot/Party	DD34 LOT T77RP	Maintenance Agent
	Remarks	Not Applicable	

- End of Report -

### Notes:

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Search Criteria: 7NE-C/C440

Annex

## 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: 7NE-C/C440



# Slope Maintenance Responsibility Report

(7NE-C/C440)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

1	7NE-C/C440	Sub-Division	2
	Location	WITHIN DD34 LOT T77RP & ADJOINING 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:

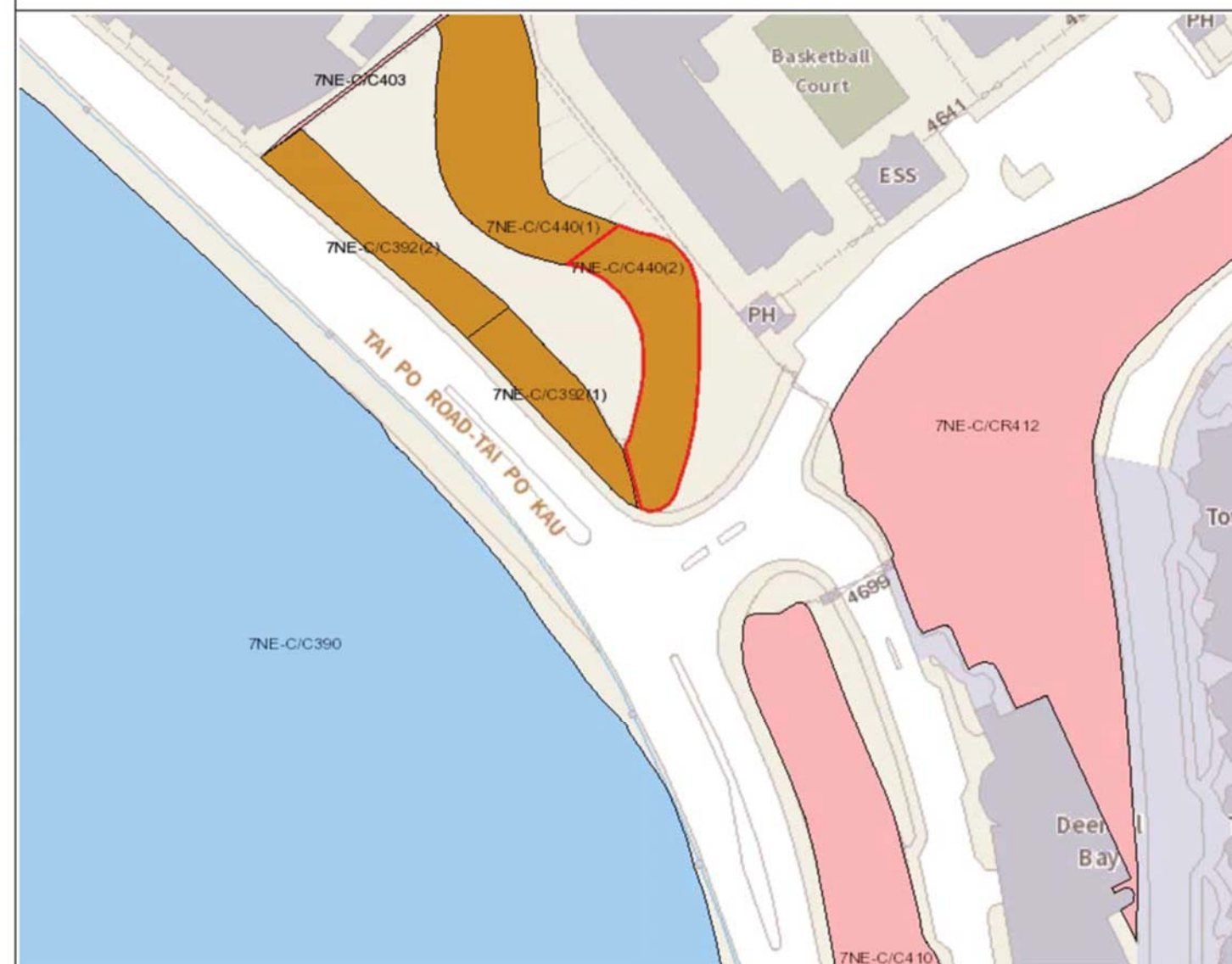
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Search Criteria: 7NE-C/C440

Annex

## 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: 7NE-C/C440



# Slope Maintenance Responsibility Report

(7NE-C/C403)



ESTATE MANAGEMENT SECTION  
LANDS DEPARTMENT

## List of Slope Maintenance Responsibility Area(s)

<b>1</b>	<b>7NE-C/C403</b>	<b>Sub-Division</b>	Not Applicable
	<b>Location</b>	Within TPTL 156, Japanese International School	
	<b>Responsible Lot/Party</b>	TPTL 156	<b>Maintenance Agent</b> Not Applicable
	<b>Remarks</b>	Not Applicable	

- End of Report -

### Notes:

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Search Criteria: 7NE-C/C403

Annex

## 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: 7NE-C/C403

**Appendix C**

Slope Records Retrieved from CEDD



## BASIC INFORMATION

Location: Tai Po Road - Tai Po Kau, TP

Date of Formation: post-1977

Date of Construction/  
Modification:

Approximate Coordinates: Easting : 838202 Northing : 832330

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: District open space

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): 6 Length (m): 90 Average Angle (deg): 40

## WALL PART

N/A

## MAINTENANCE RESPONSIBILITY

Mixed Feature Party: HyD Agent: HyD

Mixed Feature Party: DD34 TLL T77 RP Agent: N/A

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 22-01-2009

Data Source: EI(HyD)

Slope Part Drainage: (1) Position: Toe Size(mm): 450

Wall Part Drainage: N/A

## SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: 0 Vegetated: 20 Chunam: 0 Shotcrete: 80 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): 60 Spacing (m): 1.4

WALL PART

N/A

SERVICES

N/A

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: District open space

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

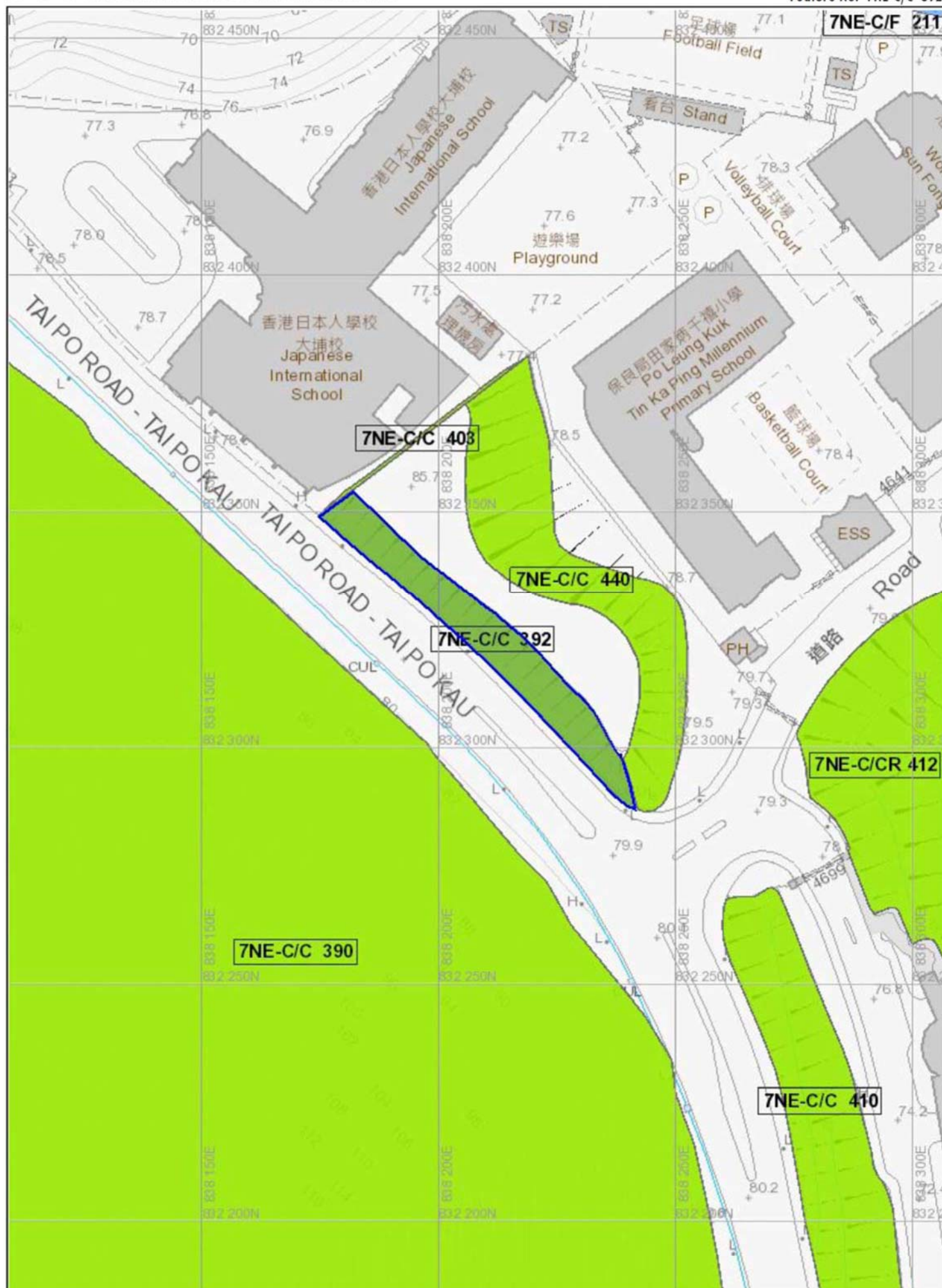
Non-routine Maintenance:

Action By: N/A

### PHOTO







## BASIC INFORMATION

Location: Southeast of Japanese International School

Date of Formation: post-1977

Date of Construction/  
Modification:

Approximate Coordinates: Easting : 838229 Northing : 832334

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: District open space

Distance of Facility from Crest (m): 0

Facility at Toe: School

Distance of Facility from Toe (m): 5

Consequence-to-life Category: 1

Remarks: N/A

## SLOPE PART

(1) Max. Height (m): 6.5 Length (m): 110 Average Angle (deg): 30

## WALL PART

N/A

MAINTENANCE RESPONSIBILITY

Mixed Feature Party: DD34 LOT T77RP Agent: N/A  
Mixed Feature Party: Lands D Agent: Lands D

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 22-01-2003  
Data Source: Agreement CE 59/2002 (GE)  
Slope Part Drainage: N/A

Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)  
Surface Protection (%): Bare: 20 Vegetated: 80 Chunam: 0 Shotcrete: 0 Other Cover: 0  
Material Description: Material type: Soil Geology: Decomposed volcanic  
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: ME

Section No: 1-1

Height(m):

Type of Toe Facility: School

Distance from Toe(m): 5

Type of Crest Facility: District open space

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:

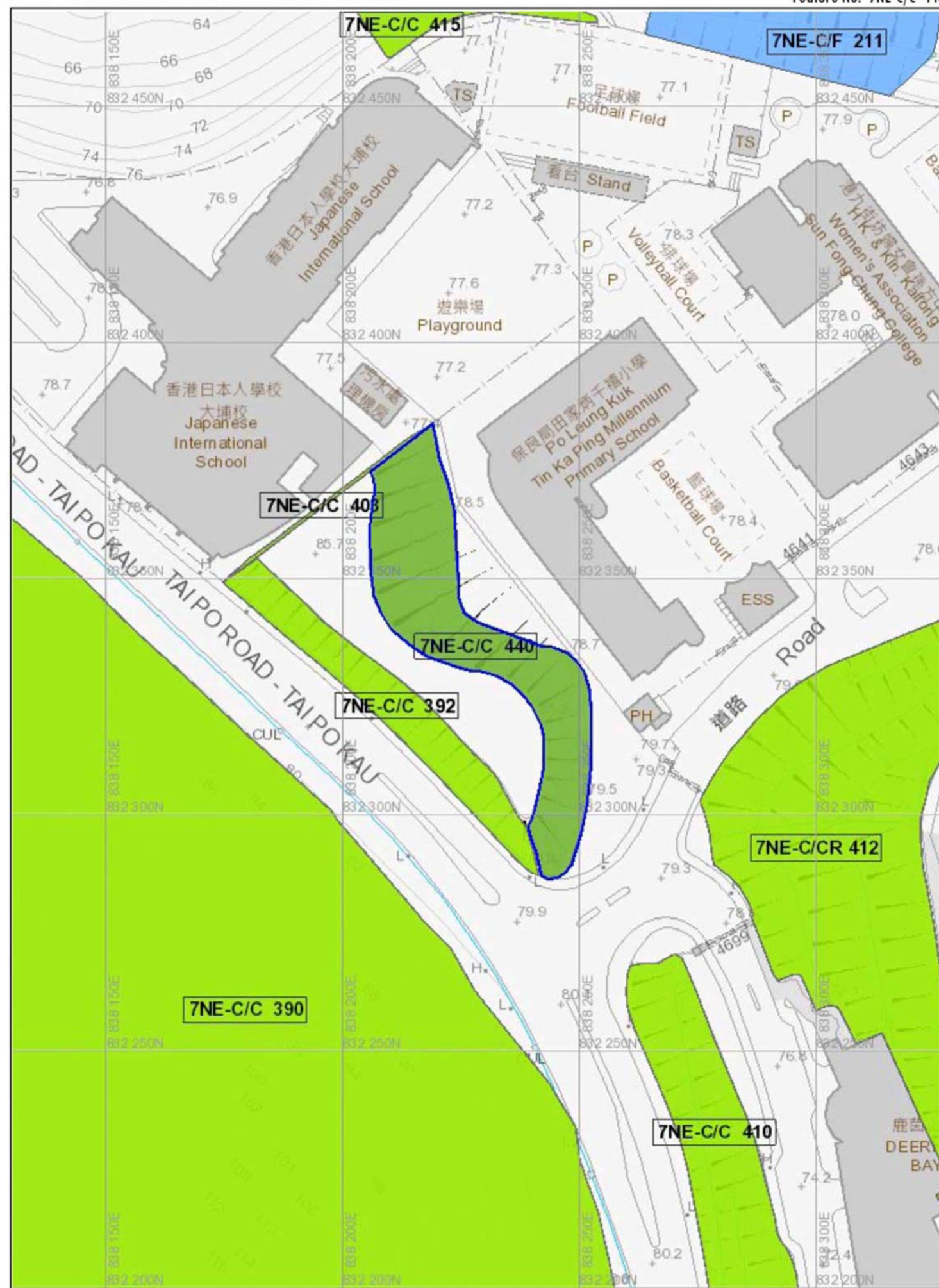
Action By: N/A

Non-routine Maintenance:

Action By: N/A



**PHOTO**



## BASIC INFORMATION

Location: JAPANESE INTERNATIONAL SCHOOL, TAI PO ROAD - TAI PO KAU, TAI PO

Date of Formation: post-1977

Date of Construction/  
Modification:

Approximate Coordinates: Easting : 838196 Northing : 832366

## CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: District open space

Distance of Facility from Crest (m): 0

Facility at Toe: School

Distance of Facility from Toe (m): 1

Consequence-to-life Category: 1

Remarks: N/A

## SLOPE PART

(1) Max. Height (m): 7 Length (m): 70 Average Angle (deg): 85

## WALL PART

N/A

## MAINTENANCE RESPONSIBILITY

Private Feature Party: TPTL 156 Agent: N/A

## DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 14-07-2016

Data Source: Districts

Slope Part Drainage: (1) Position: Stepped Size(mm): 201

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 & Rock Geology: Decomposed volcanic

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

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



WALL PART

N/A

SERVICES

N/A

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: ME

Section No: 1-1

Height(m):

Type of Toe Facility: School

Distance from Toe(m): 1

Type of Crest Facility: District open space

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



7NE-C/C 403 VIEW FROM F6





## Appendix D

Extraction of Previous GI Records



I-P FOUNDATIONS

GEOTECHNICAL INFORMATION  
UNIT  
- 4 SEP 1999  
RECEIVED

CONTRACT NO. TC G334  
TERM CONTRACT FOR GROUND INVESTIGATION  
AND  
LABORATORY TESTING FOR WHICH THE ASD IS RESPONSIBLE  
IN HONG KONG FOR  
HONG KONG GOVERNMENT

CIVIL ENGINEERING DEPARTMENT  
GEOTECHNICAL  
INFORMATION UNIT  
Report No. 30594  
ARE. 7 NE 16 A3  
Ref. 7 NE 16 B1

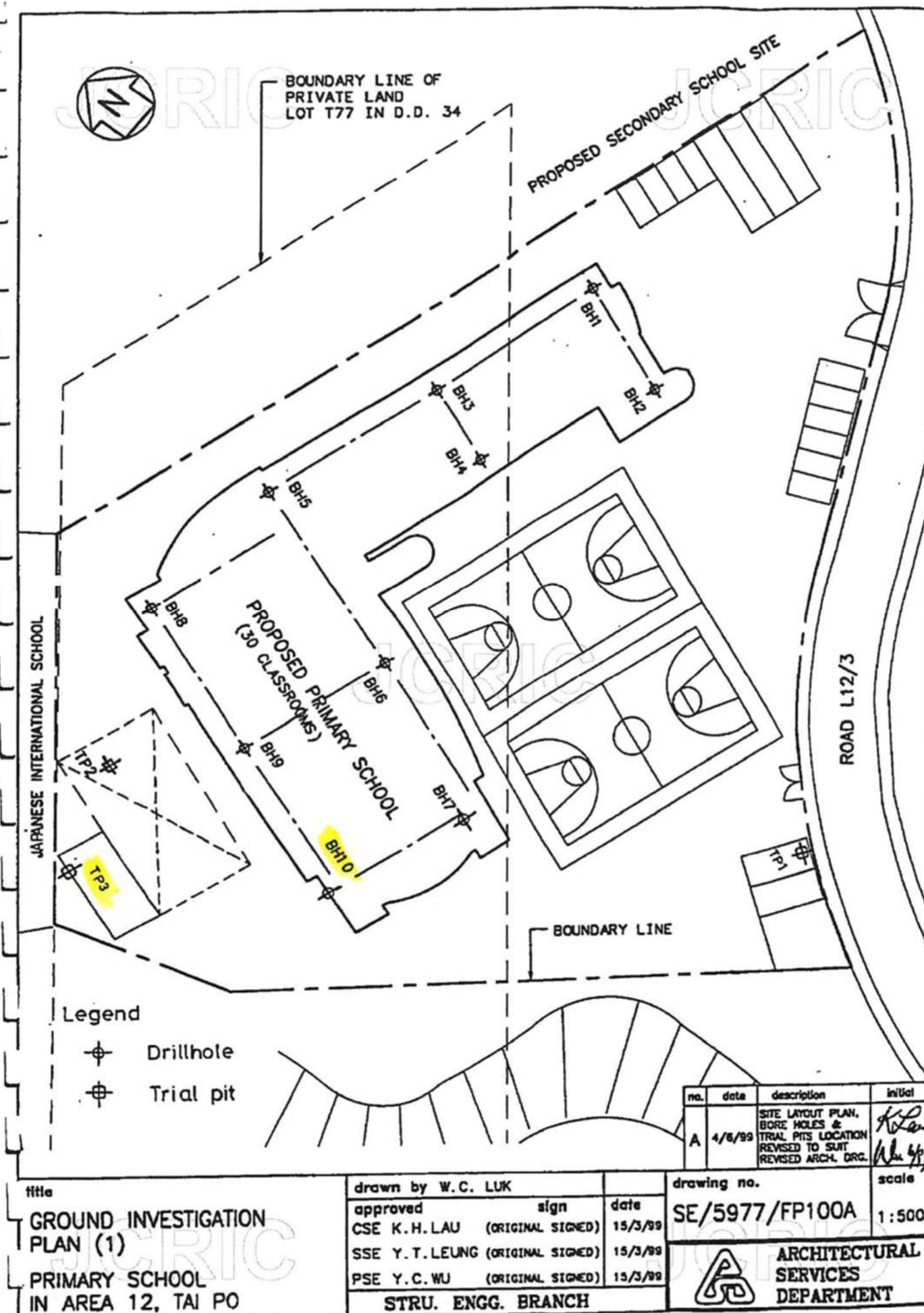
WORKS ORDER NO. ASD 005492  
PRIMARY SCHOOL IN AREA 12,  
TAI PO, NEW TERRITORIES

FIELDWORK REPORT

**CONTRACTOR**  
I-P Foundations Ltd.  
6/F, Tai Yau Building,  
181 Johnston Road,  
Wanchai,  
Hong Kong

**CLIENT**  
Architectural Service Department  
Queensway Government Offices,  
66 Queensway,  
Hong Kong

July, 1999



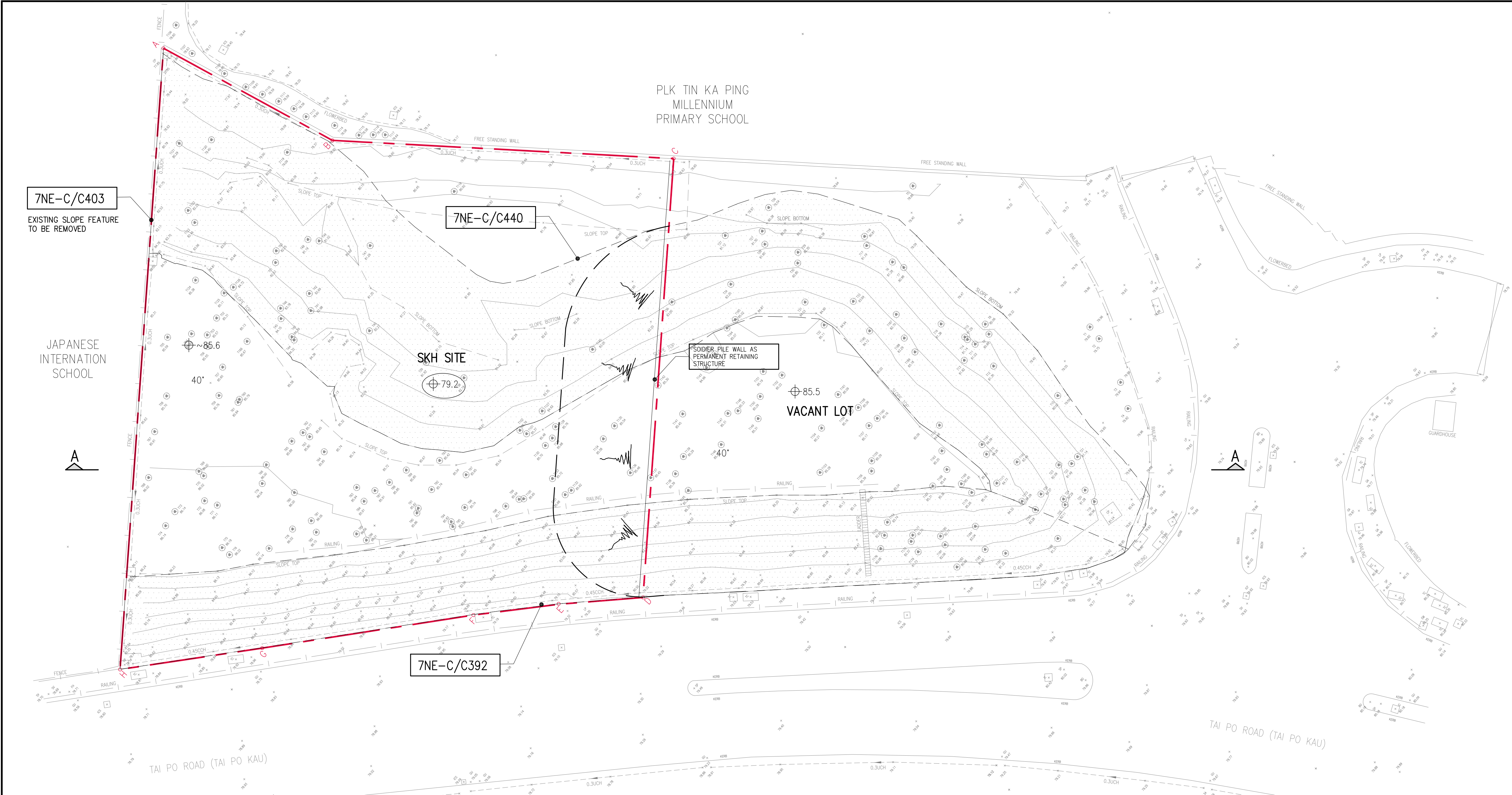




**Appendix E**

Schematic Plans for Site Formation Works





B.D. REF.

Notes :  
Do not scale drawings. All dimension must be verified at the work by the contractor. This drawing & design are copyright and no portion may be reproduced without the written permission of JMK Consulting Engineers Ltd.

Revision	Date	Description	By	Checked
		Name	Initial	
In Charge		H.KWAN		
Design Checked		N.LAM		
Designed		N.LAM		
Draw Checked		N.LAM		
Drawn		W.K.LEE		
Date	FEB 2022	Scale	1 : 100	CAD. Ref. 2132-DSF-03

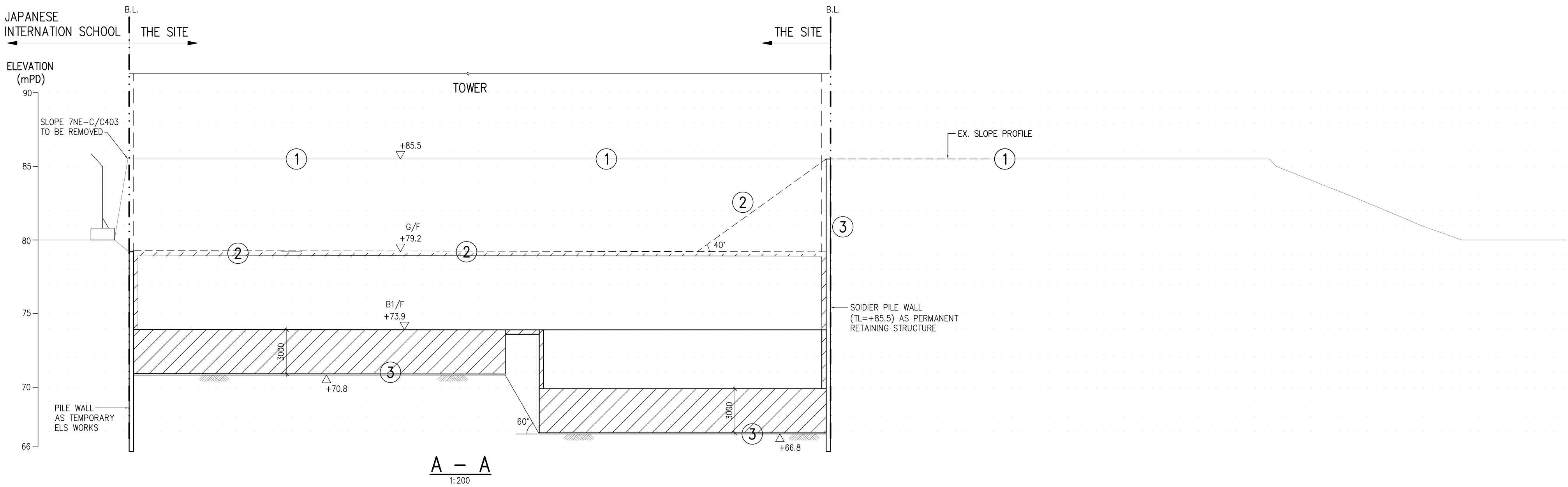
Client

Architect  
LWK & PARTNERS (HK) LTD

Project  
SHK ST CHRISTOPHER'S COMPLEX  
AT T77 RP IN DD34  
TAI PO

Title	
PRELIMINARY SITE FORMATION PLAN (SCHEME 3)	
Drq. No.	Rev.
2132/DSF/03	-
JMK JMK CONSULTING ENGINEERS LTD.	

SCHEME 2 (DRAFT SITE FORMATION PLAN)  
1 : 200



SCHEME 3 (WITH JIS CONSENT & W/O GOV. CONSENT)

- 1 EX. SLOPE PROFILE
- 2 SITE FORMATION WORK TO BE CARRIED OUT WITH CUT-SLOPE WITH-IN SITE BOUNDARY
- 3 CARRY OUT TEMPORARY ELS SYSTEM AND EXCAVATE DOWN TO FOUNDING LEVEL. ELS SYSTEM TO FORM AS PERMANENT RETAINING STRUCTURE ALONG GOV. SITE
- 4 FORM BASEMENT STRUCTURE & TOWER