

Appendix 15

Geotechnical Planning Review Report

PROJECT NO. P2541

GEOTECHNICAL PLANNING REVIEW REPORT (GPRR)

FOR

PROPOSED REZONING IN D.D. 110, KAM TIN ROAD

SHEK KONG, YUEN LONG

GREG WONG & ASSOCIATES LTD.

Prepared by:	Kelvin Au Yeung
Checked by:	Kevin Tang
Approved by:	Kevin Tang
Report No.:	2541G002
Revision:	-
Date:	October 2025

TABLE OF CONTENTS

1. Introduction
2. Site Location and Description
3. The Proposed Development / Planning
4. Existing Information
5. Ground Conditions
6. Proposed Works for the Development / Planning
7. Impacts on Adjacent Premises / Geotechnical Features
8. Conclusion

Appendix

Appendix A	Site Location Plan
Appendix B	Master Layout Plan
Appendix C	Slope Feature Information
Appendix D	SIMAR
Appendix E	Previous G.I. Information in Vicinity
Appendix F	Records of Existing Utilities
Appendix G	Schedule Area
Appendix H	Geological Survey Map
Appendix I	Scheme of Proposed Foundation & Site Formation Works

1. INTRODUCTION

This report presents the geotechnical planning review for the proposed development based on the available ground information in supplementary to the master layout plans.

Greg Wong & Associates Ltd. (GWAL) was appointed as the structural and geotechnical consultant for the proposed residential development in D.D. 110 Shek Kong.

This report is prepared to seek approval from the Town Planning Board ("TPB"/the "Board") under section 12A of the Town Planning Ordinance for rezoning of the Site from "Residential (Group C)2" ("R(C)2") and "Open Space" ("O") to "Residential (Group C)4" (R(C)4") under the approved Kam Tin North Outline Zoning Plan ("OZP") No. S/YL-KTN/11, to enable the proposed residential development at Lot Nos. 519 RP (part) and 520 RP in D.D.110 and adjoining Government land, Kam Tin Road, Shek Kong, Yuen Long.

The geotechnical review is prepared by the geotechnical consultant in accordance with the requirement set out in PNAP-APP25. This report contains the following as listed.

- Impact and proposed investigation to the adjoining premises
- Conclusion and recommendation

2. SITE LOCATION AND DESCRIPTION

2.1 Site Location

The Development Site with a total site area of approximately 8,580m², is located in Kam Tin North. The site abuts Kam Tin Road to its immediate south. Two low-rise, low-density residential developments in the same "R(C)2" zone, namely Seasons Villas and Seasons Monarch, are located to the immediate north-east and further west. Villages including Shek Kong San Tsuen and Pang Ka Tsuen are located to the west of the Site. The areas to the immediate west and south-west of the Site are occupied by temporary structures, open storage sites and vacant vegetated land zoned "O". Shek Kong Barracks is located to the south of the Site across Kam Tin Road.

The Development Site sits on a gently sloping land with gradient gradually descending from the south at +13.5mPD towards the north at +8.1mPD in general. The site is currently sparsely vegetated. A site location plan is attached in [Appendix A](#).

2.2 Existing Features

According to the Slope Information System, there are three existing features (slope or retaining wall) within site boundary or in close vicinity. The feature is listed as follow:

Feature No.	Type	Location	Responsibility	Sub-Division	Height (m)	Angle (deg)	Length (m)
6NE-B/FR 26	Fill Slope	North-east	DD110 LOT815RP	-	2.8	30	14.5
	Retaining Wall			-	4.4	90	14.5
6NE-B/R 11	Retaining Wall	East	DD110 LOT815RP&EXT	-	5	90	50
6NE-B/F17	Fill Slope	South-west	Lands Department&DD110 LOTS520RP, 521&523	(1)	5	45	150
				(2)	5	50	60

Table 2.1 – Summary of Existing Features Record

Location plan & detail information of the features are attached in [Appendix C and D](#). The available information indicates that the slope shall be in good condition.

2.3 Existing Buildings & Structures in Vicinity

Low-rise, low-density residential developments Seasons Villas is located to the immediate north-east. Villages including Shek Kong San Tsuen and Pang Ka Tsuen are located to the west of the Site.

There is no sensitive historical building close to the site.

3. THE PROPOSED DEVELOPMENT

The proposed development comprises of 6 nos. of residential towers with 6 storeys, 1-storey clubhouse and sewage treatment plant. With site formation level at +10.4mPD, the referencing building height is about +28.9mPD. The schematic master layout plan of the proposed new building is attached in [Appendix B](#).

4. EXISTING INFORMATION

4.1 Ground Investigation Information

There is 5 GI information within the site area. There is 5 GI information in the vicinity of the site area. The GI information in the vicinity which is shown in the plan of [Appendix E](#). The GI records are summarized in Table 4.1.

Boreholes	Easting	Northing	Ground Level	Strata Thickness (m)				
			(mPD)	Fill	Alluvium	Colluvium	CDT	MDT
T.P.240	826332	833580	+9.31	0.8	0.8	-	0.7	-
TP3	826391	833554	+12.76	2.5	2.5	-	-	-
TP4	826350	833528	+9.46	1.1	1.1	-	-	-
TPS2	826362	833531	+12.00	1.0	2.1	-	-	-
TPS3	826410	833560	+12.41	0.9	2.6	-	-	-
BH2	826356	833524	+12.44	4.0	4.0	5.0	1.0	-
BH8	826339	833473	+12.43	1.5	6.0	-	15.5	1.5
BH9	826353	833498	+12.18	1.5	9.0	-	7.5	4.5
BH11	826389	833526	+12.65	1.5	7.0	-	8.5	5.3
BH13	826431	833537	+13.30	1.5	6.9	-	7.7	5.0

Table 4.1 – Summary of Boreholes and Trial Pit Record

Based on the closest borehole log, the concerned site might be covered by a layer of alluvium / colluvium / fill of 8m thick. Underneath the alluvium / fill there might be a layer of grade V to IV Tuff of about 8m thick. Below that mainly would be a layer of grade III or better grade of Tuff.

4.2 Layout of Existing Utilities

Utilities adjacent to site are located around all sides of the site. They include drain pipes, electric cables and gas ducts, etc. The utilities information of various utilities parties has been shown on the submission drawings and attached in [Appendix F](#).

4.3 Schedule Area

The site is checked to be outside the MTR Corporation Railway Protection Area Plan (Yuen Long to Kam Sheung Road Station – WR/AP/120). Plan of the closest Schedule Areas are attached in [Appendix G](#).

5. GROUND CONDITIONS

5.1 Topography

The site sits on a gently sloping land with gradient gradually descending from the south at +13.5mPD towards the north at +8.1mPD in general. The total area of the site is about 8,580m². The site is currently sparsely vegetated.

5.2 Geology

According to the 1:20000 scale geological map published by the Geotechnical control Office (Sheet 6: HGM20 Series: Edition 1 - 1988), the site is underlain by Alluvium. Part print of geological map is enclosed in [Appendix H](#).

The available information indicates that the site might be covered by a layer of residual soil of 2m to 13m thick. Underneath the residual soil there might be a layer of grade V to IV Tuff of about 8m thick. Below that mainly would be a layer of grade III or better grade of Tuff.

Soil Properties

FILL

Fill generally consists of mottled grey and greyish brown, silty fine to coarse sand with some angular to subangular fine to coarse gravel sized rock fragments.

ALLUVIUM

Alluvium generally consists of mottled light grey and reddish brown, slightly silty slightly sandy subangular fine to coarse gravel sized rock fragments.

TUFF

Tuff was classified as weak to strong, dark brown/spotted white, highly to slightly decomposed, coarse ash crystal occasionally spotted black/blue/white.

6. PROPOSED WORKS

6.1 Proposed Works on Existing Features

There are 3 existing features within site boundary or in close vicinity. It is anticipated there is works on the features as the proposed site formation, foundation & buildings works shall be within the site and would be design as have no adverse impact to the features. Monitoring on the features shall be carried out throughout the construction period.

Feature No.	<u>Proposed Works</u>
6NE-B/FR 26	No proposed work Monitoring shall be carried out during construction
6NE-B/R 11	No proposed work Monitoring shall be carried out during construction
6NE-B/F 17	Proposed partly excavation on fill slope and proposed retaining wall for formation backfill Monitoring shall be carried out during construction

Nevertheless, stability of existing feature within or close to the site (including any unregistered features) affecting or being affected by the development during construction works shall be assessed. Monitoring works shall be carried out during the whole construction period. Remedial or upgrading works shall be proposed and carried out if found necessary by the lot owner.

6.2 Proposed Works on Natural Terrain

There are no natural terrains overlooking the subject site.

6.3 Proposed Foundation Works

The proposed scheme comprises a total of 6 nos. of residential towers with 6 storeys, 1-storey clubhouse and sewage treatment plant. The available previous ground investigation information indicates that the rockhead level, defined as an at least grade III or rock with total core recovery greater than 85%, may be encountered on average at a level about 19m below the existing ground. As the rockhead level is low with a high ground water level, pile cap and mini-piles are considered to be feasible foundation options for the proposed building. The proposed foundation scheme for the proposed development shall have minimal effect or impact to the surrounding. There are existing features within the site. Detailed foundation design will be submitted separately when the proposed ground investigation works are completed. A preliminary layout of proposed foundation is attached in [Appendix I](#).

6.4 Proposed Site Formation, Excavation and Lateral Support Works

For the construction of foundation, sheet pile wall and soil open cut is considered to be feasible scheme to retain the excavation depth. For the proposed scheme level different between the formation level and level outside the proposed site, retaining wall is proposed to retain the soil load between the level different. Compacted soil fill is proposed to backfill to formation level. The choice of scheme of permanent support shall be subject to detail assessment. A preliminary layout of proposed site formation and ELS works is attached in [Appendix I](#).

6.5 Construction Method & Sequence

All monitoring point shall be installed & initial reading shall be recorded prior commencement of any works. Remedial works on existing slopes & retaining walls being affected shall be carried out prior commencement of site formation, ELS, foundation & superstructure. Pre-boring shall be carried out prior pile installation. Obstruction during sheet pile installation for temporary ELS shall be overcome by pre-boring. Strut of the ELS shall not be dismantled until completion of the permanent screen wall support the level difference. All temporary cut slope and back filling shall be backfilled by proper material with proper compaction. Groundwater shall be controlled during the excavation. Excessive groundwater drawdown at the adjacent ground shall not be allowed.

7. IMPACTS ON ADJACENT PREMISES/ GEOTECHNICAL FEATURES

As the existing registered retaining walls & slope is in close proximity to the captioned site, consideration shall be taken in the design of the proposed works. Also, vibration caused by the installation of the mini piles / sheet piles and the ground settlement caused by the wall deflection and dewatering in the excavated areas may cause adverse effects to the adjacent utilities and structures. Therefore, it is necessary to limit the amount of vibration and ground settlement by adoption suitable lateral support works design and construction method. Pre-boring shall be carried out prior installation of piling for foundation and ELS. In all case, stability of existing geotechnical features within or in vicinity to the lot affecting or being affected by the development shall be assessed & remedial works shall be carried out if found necessary.

Groundwater control during the excavation is also critical for the design. Excessive groundwater drawdown at the adjacent ground is not allowed because ground settlement will be induced and damage will be caused to the adjacent structures and utilities. Detail assessment and design will be included in the foundation, site formation and ELS submission.

In addition, in order to ensure the adjacent premises will not be damaged by the proposed works, settlement monitoring stations, titling check points and building settlement pins will be proposed to be installed around the site. The movement of the adjacent premises will be monitored at these stations continuously throughout the work period. The noise from proposed works shall be kept within acceptable limit to minimize the disturbance to the environment. The detailed assessment and discussion on these aspects will be presented in the separate submission for ELS works.

8. CONCLUSION

On the basis of the available geotechnical information, the following conclusions and recommendations are drawn:

- The proposed development as presented in the preliminary Master Layout Plan is considered as a geotechnical feasible scheme.
- Pile cap and pile foundation are considered to be feasible foundation options for the proposed development.
- The site formation works for the proposed development shall be minimal.
- Suitable groundwater control scheme shall be considered in design to avoid excessive groundwater drawdown at the adjacent area.
- Proper excavation and lateral support works design and construction method have to be adopted to minimise the adverse effect on the existing utilities and structures. The detailed discussion will be presented the separate submission for excavation and lateral support works.
- Stability of all slopes (man-made & natural terrains) and retaining walls (including unregistered features) within or in vicinity to the lot affecting or being affected by the development during demolition & construction works shall be assessed & remedial works shall be carried out if found necessary

It is noteworthy to note that the works/proposal mentioned in this report are preliminary only at the planning stage and will be subjected to detailed study in the detail design stage under separate cover. Based on the current assessment, the proposed development is considered geotechnical feasible.

Greg Wong & Associates Ltd.

Proposed Rezoning in D.D. 110, Kam Tin Road, Shek Kong, Yuen Long

Geotechnical Planning Review Report

Appendix A

Site Location Plan



Kam Tai Road

**Seasons Villas
(~+16mPD)**

Kam Tai Road

Development Site

Kam Tin Road

**Mountain View
(~+13mPD)**

**Shek Kong
San Tsuen
(~+15mPD)**

Kam Tin Road

**Shek Kong
Barracks
(~+15mPD
to 39mPD)**

0m 20m 50m 100m

Legend



Site Boundary

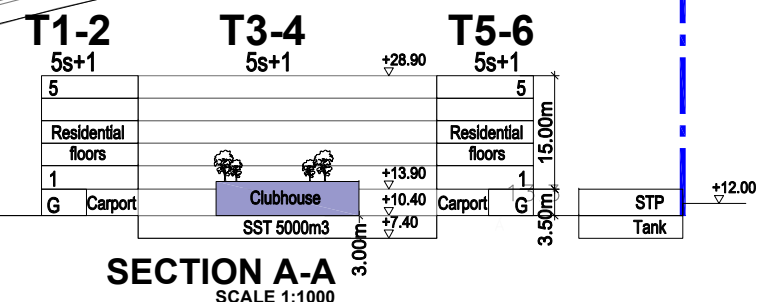
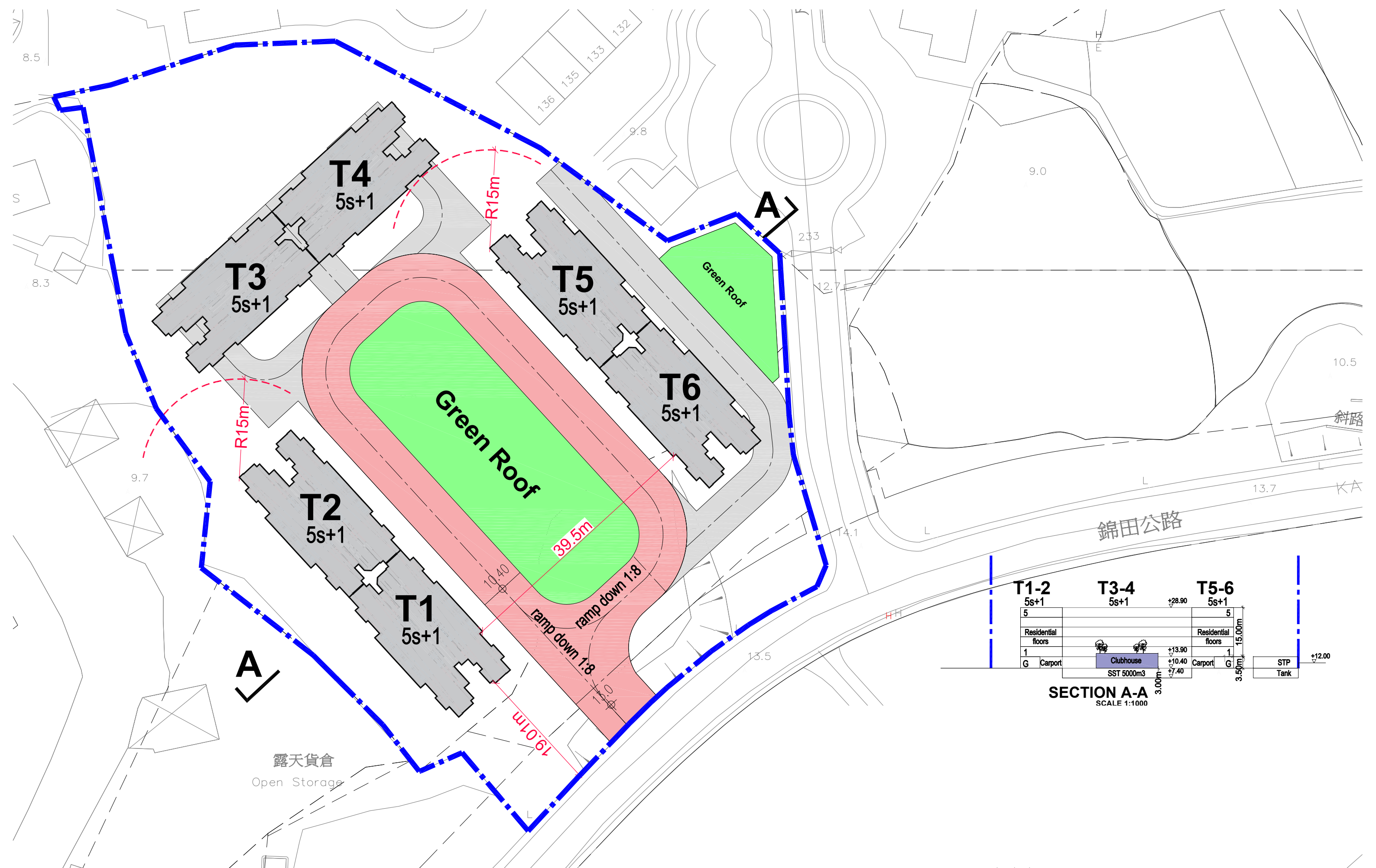
Greg Wong & Associates Ltd.

Proposed Rezoning in D.D. 110, Kam Tin Road, Shek Kong, Yuen Long

Geotechnical Planning Review Report

Appendix B

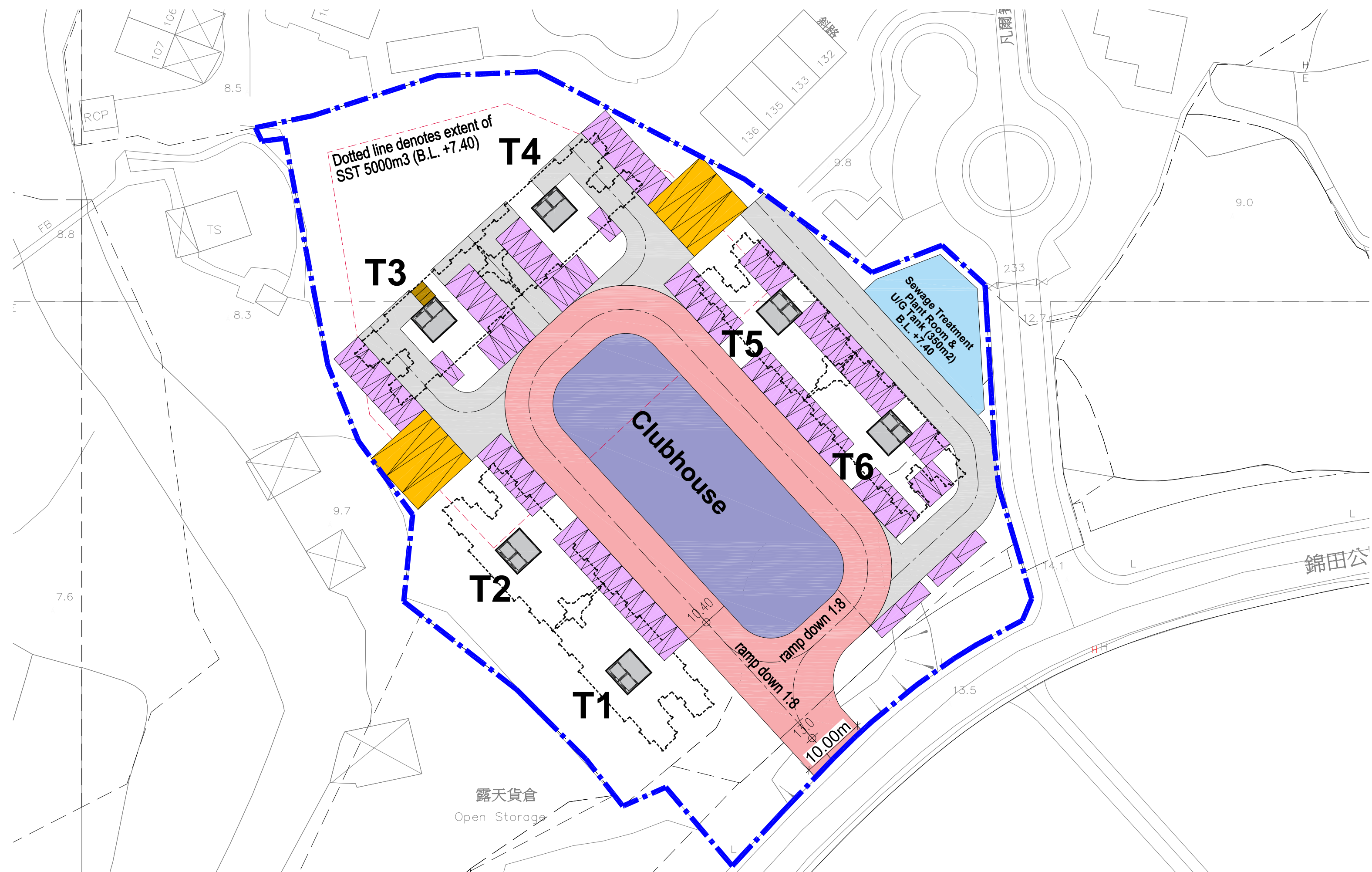
Master Layout Plan



REZONING APPLICATION
AT DD110, SHEK KONG, KAM TIN ROAD,

MASTER LAYOUT PLAN

Dwg No: 20250309 - shek kong.dwg
Scale: 1 : 500(A3)
Date: 24/04/2025
File Path: p:\dd110, shek kong, kam tin road, yuen long\g. scheme\2025_shek kong new alternative s12a



REZONING APPLICATION
AT DD110, SHEK KONG, KAM TIN ROAD,

GROUND FLOOR PLAN

Dwg No: 20250309 - shek kong.dwg
Scale: 1 : 500(A3)
Date: 24/04/2025
File Path: p:\dd110, shek kong, kam tin road, yuen long\g. scheme\2025_shek kong new alternative s12a

Appendix C

Slope Feature Information

BASIC INFORMATION

Location: LOT 815 IN DD 110, KAM TIN ROAD, SHEK KONG, YUEN LONG
Date of Formation: post-1977
Date of Construction/ Modification: N/A
Approximate Coordinates: Easting : 826380 Northing : 833610

CONSEQUENCE-TO-LIFE CATEGORY

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

SLOPE PART

(1) Max. Height (m): 2.8 Length (m): 14.5 Average Angle (deg): 30

WALL PART

(1) Max. Height (m): 4.4 Length (m): 14.5 Face Angle (deg): 90

MAINTENANCE RESPONSIBILITY

Maintenance Type: Private Party: DD110 LOT815RP Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 23-06-2003
Data Source: Districts
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: N/A Vegetated: 100 Chunam: N/A Shotcrete: N/A Other Cover: N/A
Material Description: Material type: Soil Geology: Decomposite granite
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): 50	Spacing (m): 1.5

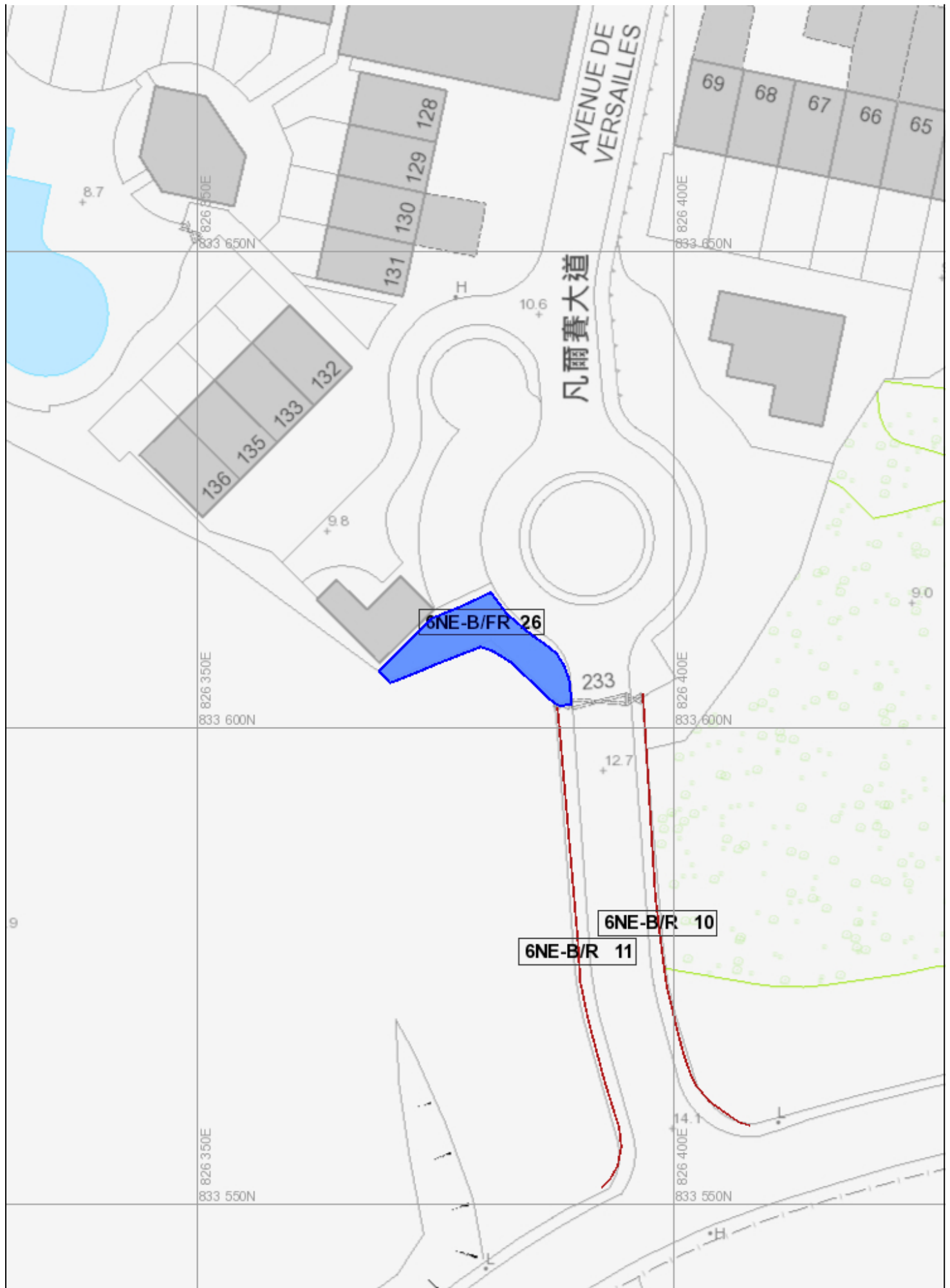
SERVICES

N/A

PHOTO



Photo taken on: 22 July 2003 (Front Elevation of RW-2)



BASIC INFORMATION

Location: LOT 815 IN DD 110, KAM TIN ROAD, SHEK KONG, YUEN LONG
Date of Formation: post-1977
Date of Construction/ Modification: N/A
Approximate Coordinates: Easting : 826389 Northing : 833589

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with low traffic density
Distance of Facility from Crest (m): 0
Facility at Toe: District open space
Distance of Facility from Toe (m): 0
Consequence-to-life Category: 3
Remarks: N/A

SLOPE PART

N/A

WALL PART

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

MAINTENANCE RESPONSIBILITY

Maintenance Type: Private Party: DD110 LOT815RP&EXT Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 23-07-2003
Data Source: Basic data interpreted from API techniques
Slope Part Drainage: N/A
Wall Part Drainage: (1) Position: Crest Size(mm): 300

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: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A



SERVICES

N/A

PHOTO

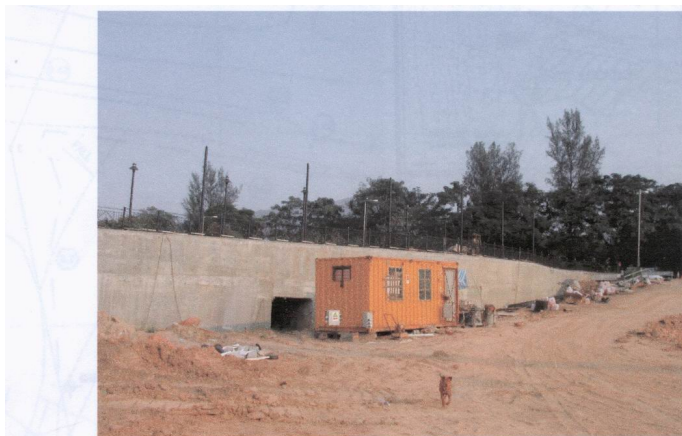
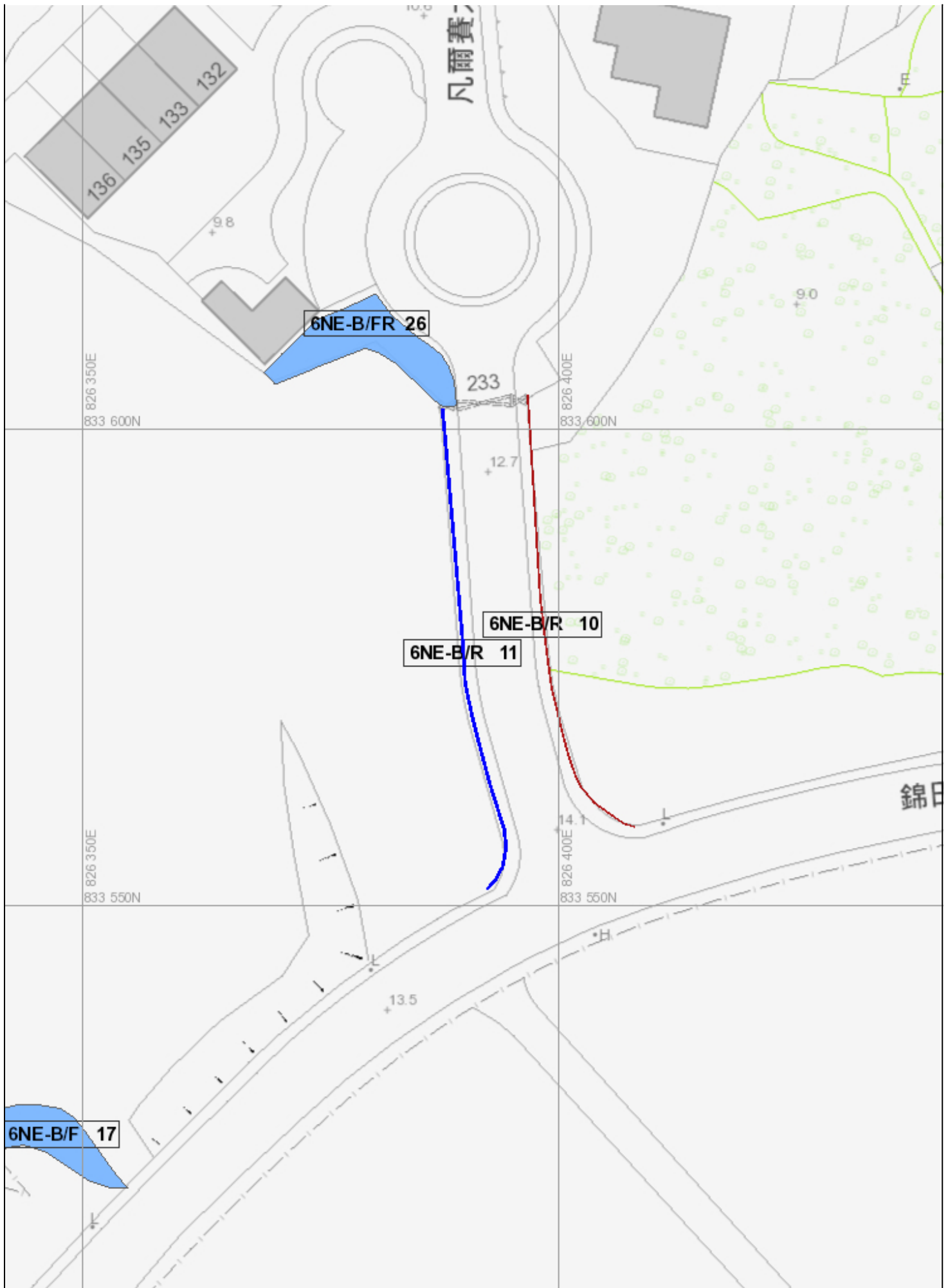


Photo taken on: 22 July 2003 (Front Elevation of the Ramp Structure)



Photo taken on: 22 July 2003 (Front Elevation of the Ramp Structure)



BASIC INFORMATION

Location: No. 250 Kam Tin Road, Yuen Long.
Date of Formation: post-1977
Date of Construction/ Modification: N/A
Approximate Coordinates: Easting : 826304 Northing : 833522

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Open car park
Distance of Facility from Crest (m): 0
Facility at Toe: Remote area or abandoned facilities
Distance of Facility from Toe (m): 0
Consequence-to-life Category: 2
Remarks: N/A

SLOPE PART

(1)	Max. Height (m): 5	Length (m): 150	Average Angle (deg): 45
(2)	Max. Height (m): 5	Length (m): 60	Average Angle (deg): 50

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

Maintenance Type: Mixed	Party: Lands D	Agent: Lands D
Maintenance Type: Mixed	Party: DD110 LOT520RP	Agent: N/A
Maintenance Type: Mixed	Party: DD110 LOT521	Agent: N/A
Maintenance Type: Mixed	Party: DD110 LOT523	Agent: N/A

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 06-09-2004
Data Source: EI(Lands D)
Slope Part Drainage: (1) Position: On slope Size(mm): 325
Wall Part Drainage: N/A

SLOPE PART



Slope Part (1)

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

Slope Part (2)

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

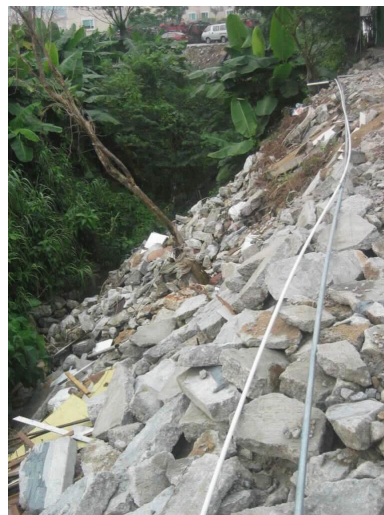
WALL PART

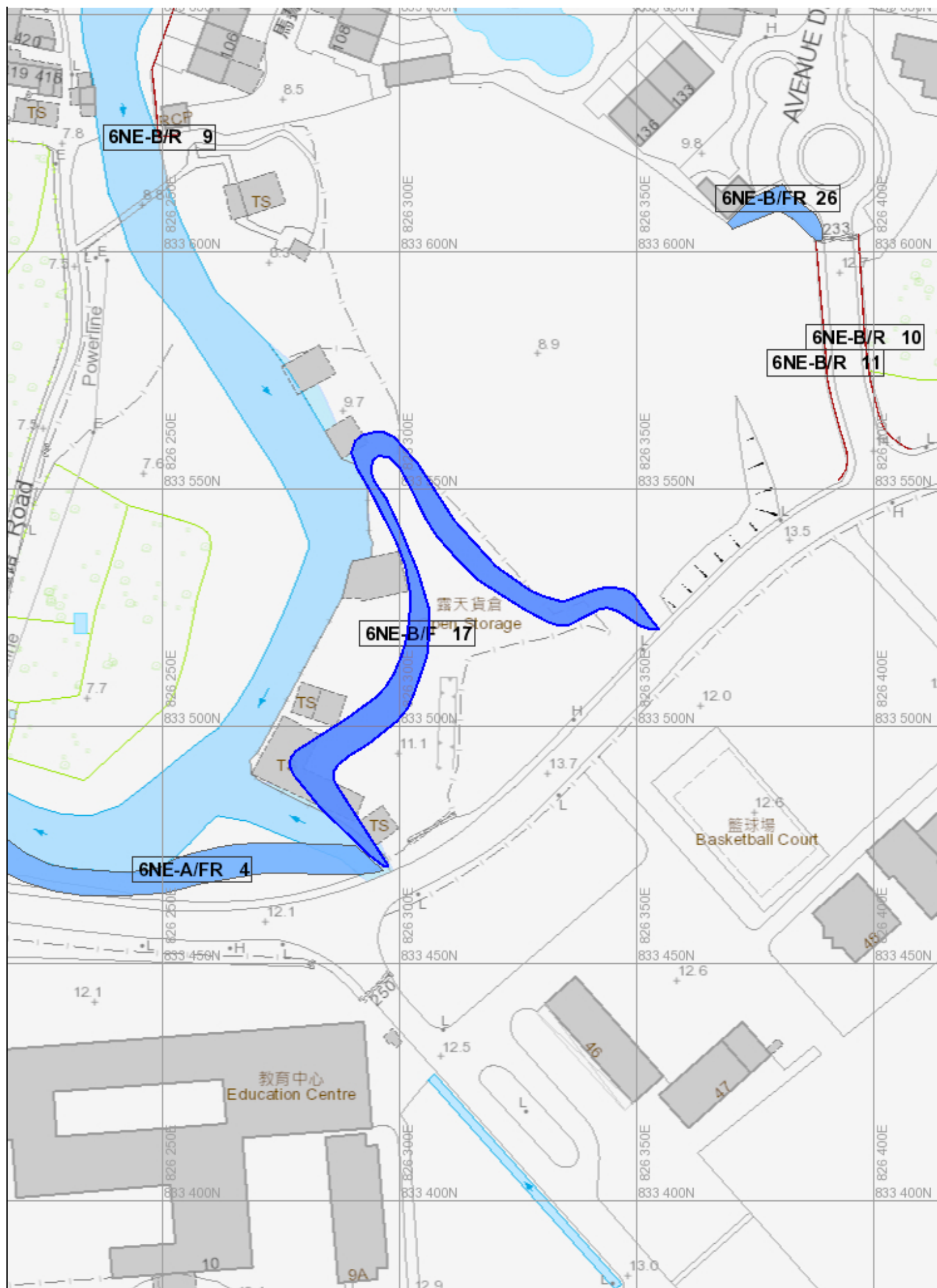
N/A

SERVICES

(1) Utilities Type: Water Main Size (mm): 450 Location: On crest Remark: N/A

PHOTO





Greg Wong & Associates Ltd.

Proposed Rezoning in D.D. 110, Kam Tin Road, Shek Kong, Yuen Long
Geotechnical Planning Review Report

Appendix D

SIMAR

Slope Maintenance Responsibility Report

(6NE-B/FR26)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/FR26		Sub-Division	Not Applicable
	Location	WITHIN DD110 LOT815RP		
	Responsible Lot/Party	DD110 LOT815RP	Maintenance Agent	Not Applicable
	Remarks	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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smr/s/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/FR26

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: 30/06/2025

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Slope Maintenance Responsibility Report

(6NE-B/R11)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/R11		Sub-Division	Not Applicable
	Location	TO THE SOUTH OF DD110 LOT815RP		
	Responsible Lot/Party	DD110 LOT815RP&EXT	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

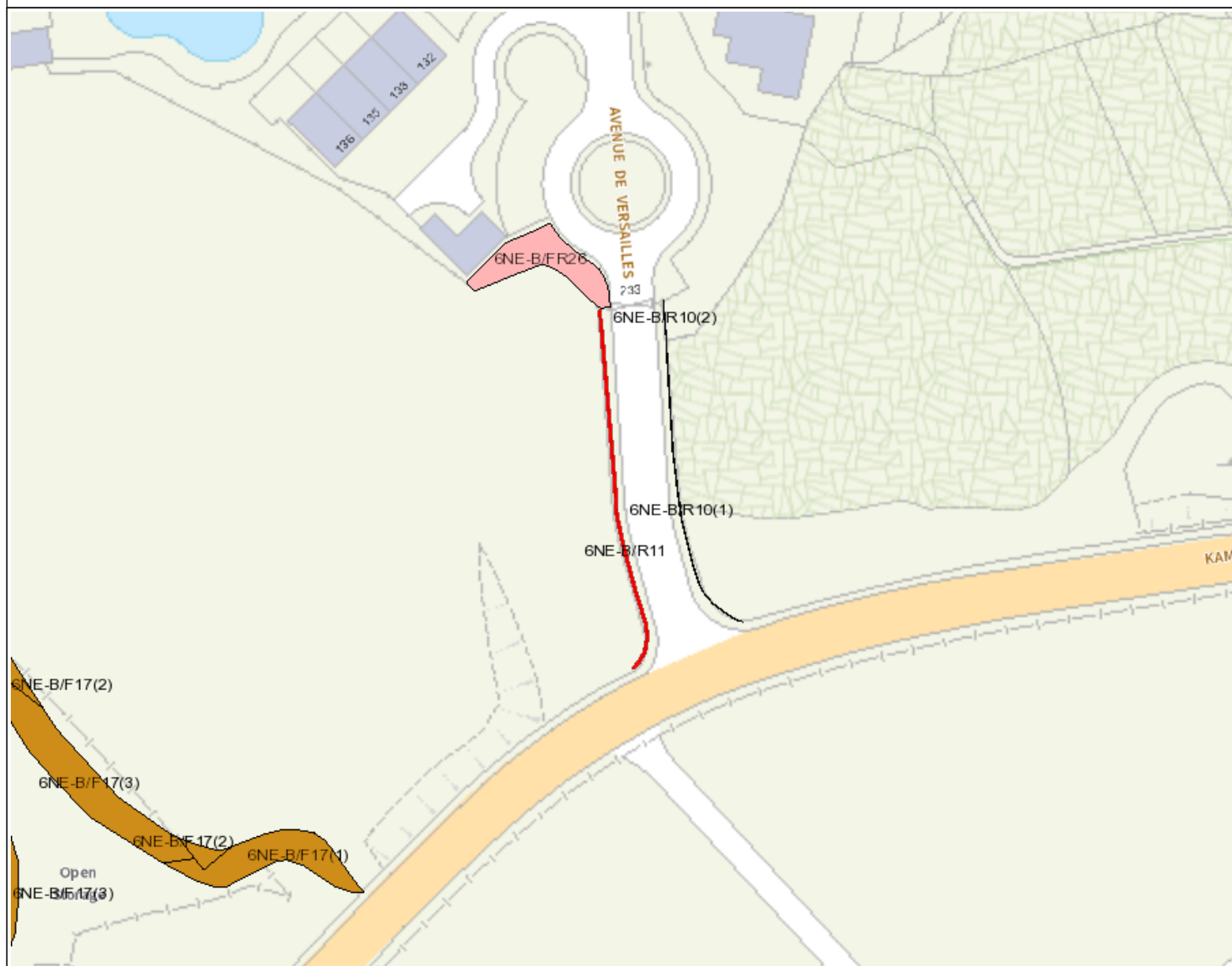
Notes:

- (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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/R11

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: 30/06/2025

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/R11

Slope Maintenance Responsibility Report

(6NE-B/F17)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/F17		Sub-Division	1
	Location	WITHIN DD110 LOTS520 RP, 521, 523 AND 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:

- (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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

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: 20/10/2022

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

Slope Maintenance Responsibility Report

(6NE-B/F17)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/F17		Sub-Division	2
	Location	WITHIN DD110 LOTS520 RP, 521, 523 AND GOVERNMENT LAND		
	Responsible Lot/Party	DD110 LOT520RP	Maintenance Agent	Not Applicable
	Remarks	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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

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: 20/10/2022

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

Slope Maintenance Responsibility Report

(6NE-B/F17)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/F17		Sub-Division	3
	Location	WITHIN DD110 LOTS520 RP, 521, 523 AND GOVERNMENT LAND		
	Responsible Lot/Party	DD110 LOT521	Maintenance Agent	Not Applicable
	Remarks	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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

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: 20/10/2022

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

Slope Maintenance Responsibility Report

(6NE-B/F17)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	6NE-B/F17		Sub-Division	4
	Location	WITHIN DD110 LOTS520 RP, 521, 523 AND GOVERNMENT LAND		
	Responsible Lot/Party	DD110 LOT523	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

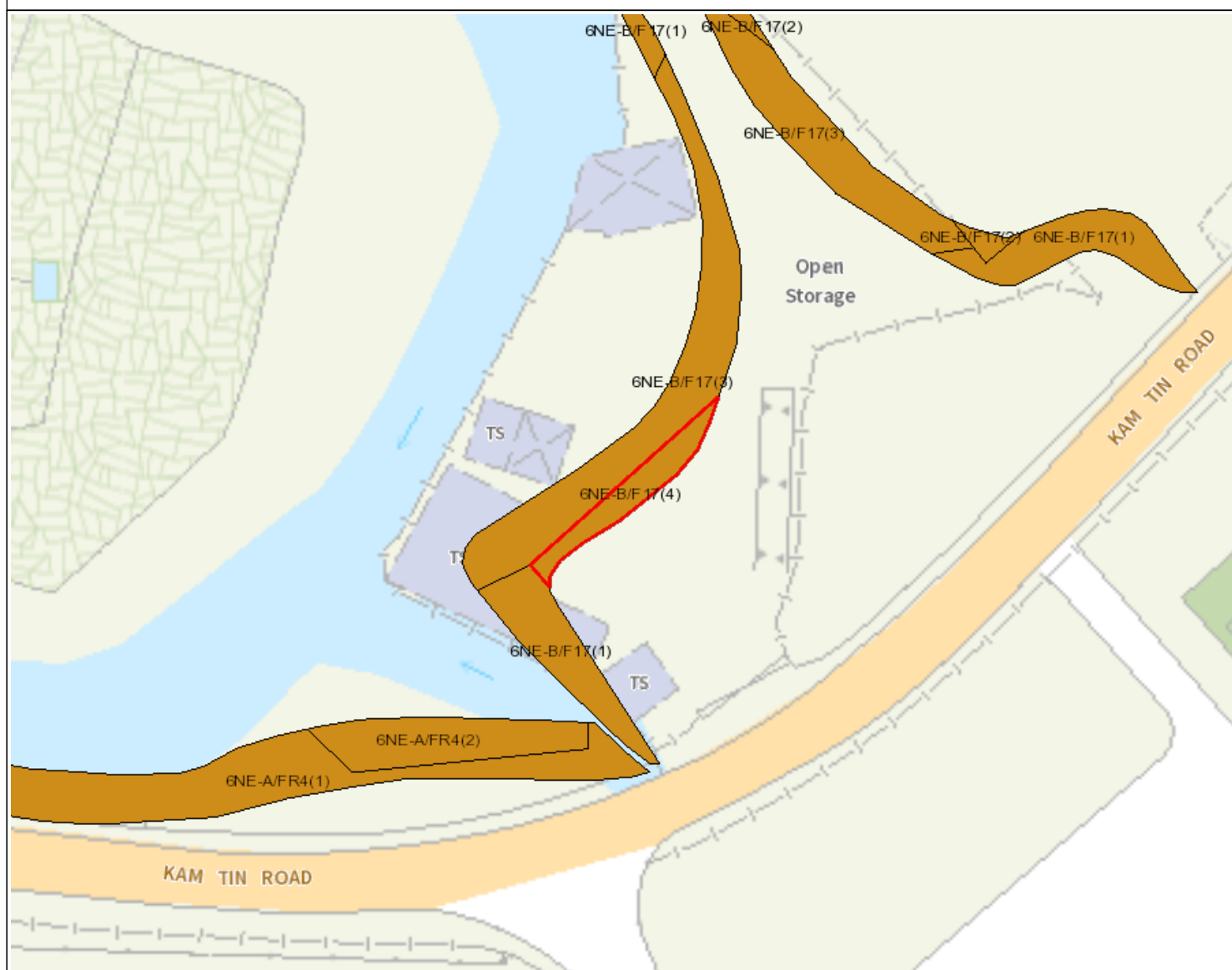
Notes:

- (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.

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

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.

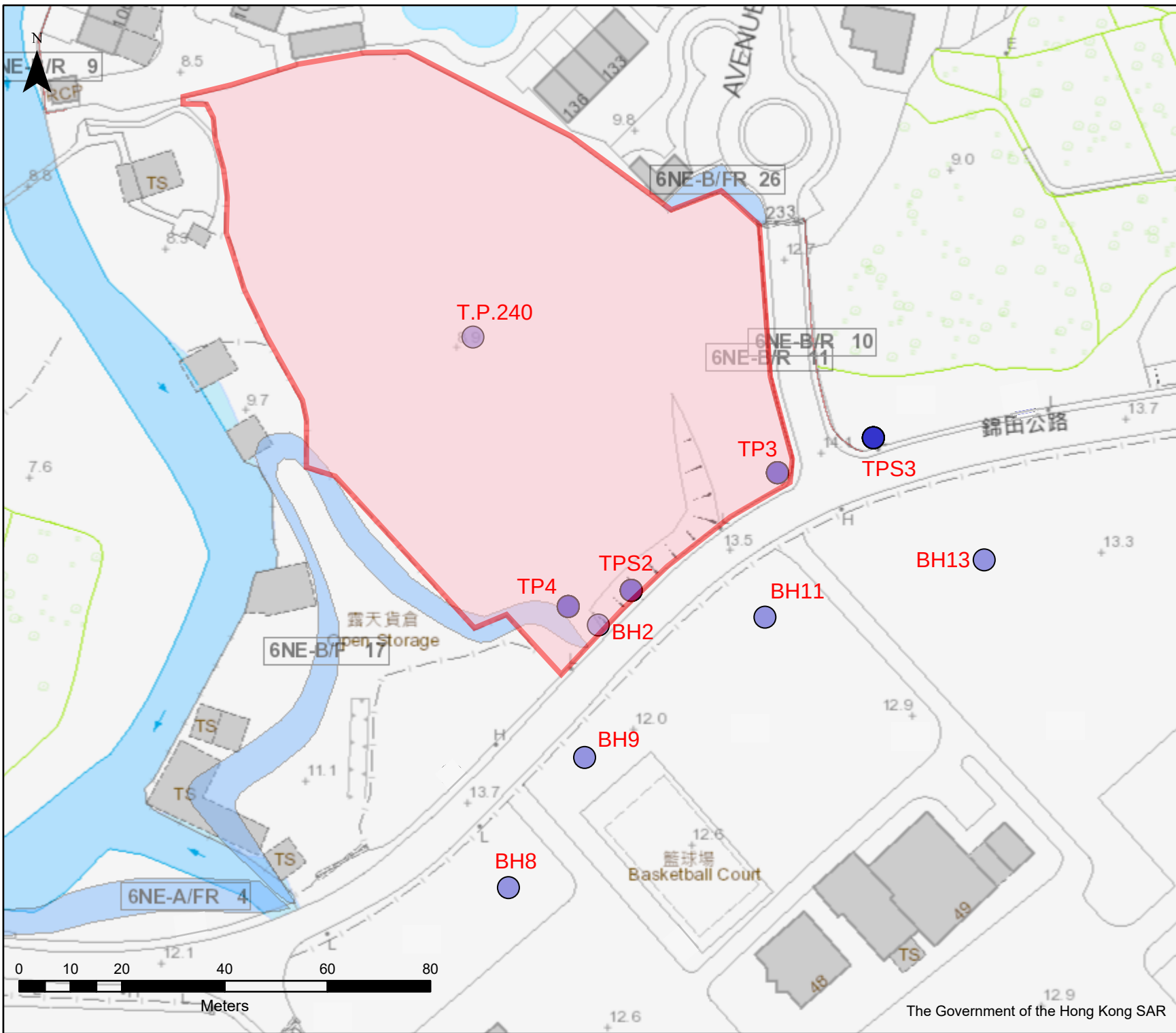
Printed on: 20/10/2022

The use of this report and plan is subject to the terms and conditions set out under the respective Disclaimers, Copyright Notice and Privacy Policy displayed on the Slope Maintenance Responsibility Information System webpage at <http://www.slope.landsd.gov.hk/smris/disclaimer>. The contents of this report and plan, including but not limited to all text, graphics, drawings, diagrams and compilation of data or other materials are protected by copyright. The users of this report and plan acknowledge that the Government of the Hong Kong Special Administrative Region is the owner of all copyright works contained in this report and plan. Any reproduction, adaptation, distribution, dissemination or making available of any copyright works contained in this report and plan to the public is strictly prohibited unless prior written authorization is obtained from the Lands Department.

Search Criteria: 6NE-B/F17

Appendix E

Previous G.I. Information in Vicinity



- ### Man-made Features
- Cut slopes
 - Disturbed terrain
 - Fill slopes
 - NT defence measures
 - NT stabilisation measures
 - Retaining walls
- Slope Features

Division	
Scale	1:1000
Date	08/07/2025
 GEOTECHNICAL ENGINEERING OFFICE CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT	



Gammon (Hong Kong) Limited

CIVIL ENGINEERS & CONTRACTORS
33rd Floor, Hopewell Centre, 183 Queen's Road, East, Hong Kong.
Tel: 5-283941 Cables: GAMMONCO Telex: HX 73826

CONTRACTOR:

WORKS ORDER NO: Q7/2/11.11

SHORING:

LOGGED BY: TYCHAN DATE: 25-1-1984

CO-ORDINATES: E26332.2 N33580.5

EXCAVATION DATES: 25-1-1984.

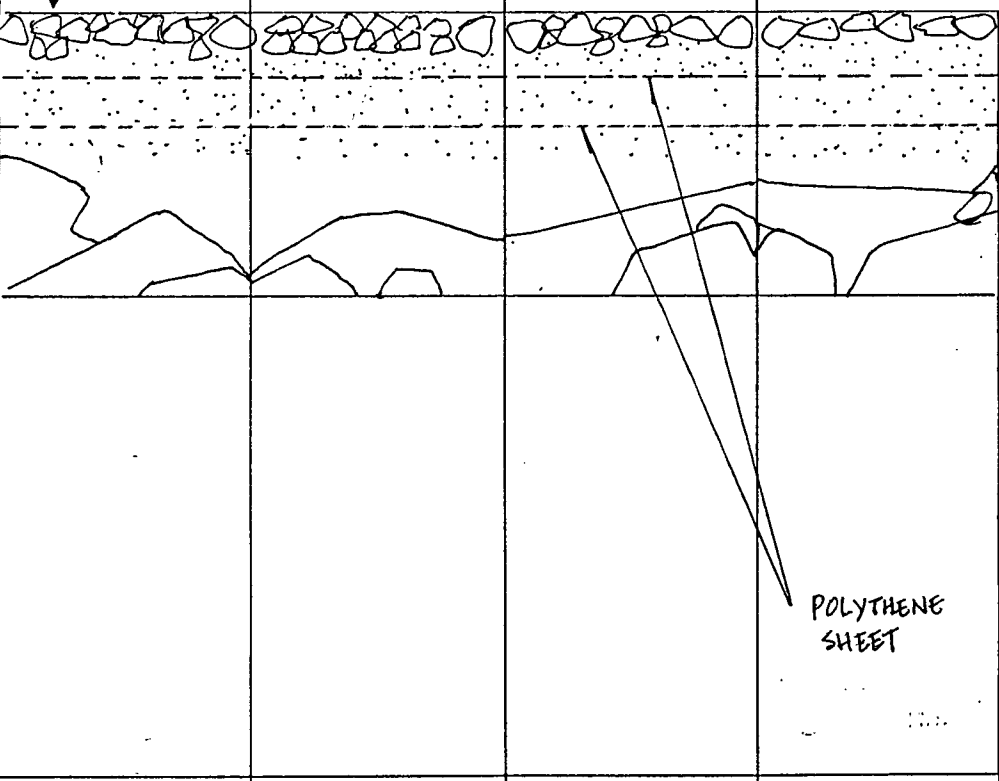
SLOPE REF. NO:

LOCATION: ROUTE -5

SAMPLES &
TESTS

(E) DEPTH
0
0.3
0.5
0.6
0.8
1.0
1.5
2.0
2.5
3.0
3.5
4.0

DATUM = +93.09 m P D



LEGEND

DESCRIPTION

GRADE

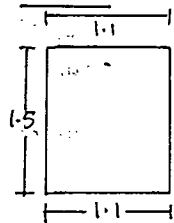
yellow,
sandy GRAVEL
with some cobbles & boulder
(FILL)

Strong, light brown & grey, medium
grained, slightly decomposed
GRANITE

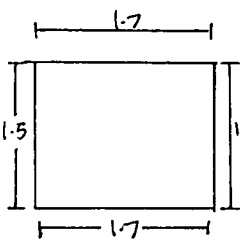
Operation stopped at 1.50m as instructed

POLYTHENE
SHEET

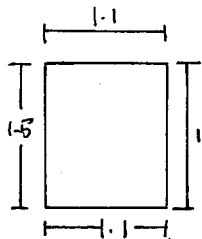
Remarks



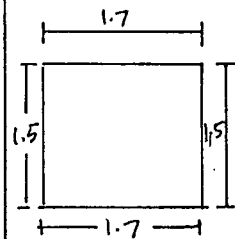
FACE A:



FACE B:



FACE C:



FACE D:

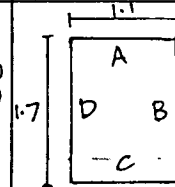
SYMBOL

SAMPLES/TESTS/WATER

PLAN (not to scale)

•
◆
□
+
T
U
m
▲
2

Small dist. sample
Large dist. sample
Undist. sample, hori. ()
Undist. sample, vert. ()
Block sample
Plate bearing test
Insitu density test
Moisture content test
Water sample
Seepage



1.7x1.1x1.5

SHEET 1 OF 1

T.P. 240





DRILLHOLE RECORD

HOLE NO. BH 2

CONTRACT NO. : GE/2018/06

SHEET 1 OF 2

PROJECT Ground Investigation - New Territories West
Agreement No. CE 76/2017(HY) Upgrading of Remaining Sections of Kam Tin Road and Lam Kam Road - Investigation

METHOD	Rotary	CO-ORDINATES	TASK ORDER NO
MACHINE & NO.	HD19	E 826356.59 N 833524.51	GE/2018/06.53
FLUSHING MEDIUM	Water	ORIENTATION	DATE : 19/12/2020 to 21/12/2020
		Vertical	GROUND LEVEL + 12.44 mPD

Drilling Progress	Casing Depth/Size	Water Level (m) Shift start / end	Flush Returns %	TCR %	SCR %	RQD %	FI	Depth of FI / Test	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Description
19/12/2020	SW									No. Type Depth	+12.44	0.00			Brown (7.5YR 5/4), mottled grey and greyish brown, silty fine to coarse SAND with some angular to subangular fine to coarse gravel sized rock fragments. (FILL)
1										A ● 0.50					
2										B ● 1.00					
3										C ● 1.50					
4										D ● 2.00	+10.44	2.00			Firm, brown (7.5YR 5/4), mottled grey, slightly clayey sandy SILT with some angular fine to coarse gravel sized rock fragments. (FILL)
5			60	95						1 2.00					
6										2 3.00					
7	SW 3.10 PW		60	0						3 3.50	+8.84	3.60			Grey (N 5), mottled reddish brown, angular to subangular fine to coarse GRAVEL sized rock fragments. (FILL)
8			60	50						T2 IOI 4.20	+8.44	4.00			Brown (7.5YR 5/4), mottled light grey and reddish brown, slightly silty slightly sandy subangular fine to coarse GRAVEL sized rock fragments and some subangular cobble sized moderately decomposed quartz and tuff. (COLLUVIUM)
9			60	70						T2 IOI 4.70					
10			60	63						T2 IOI 5.50					
11			60	58						T2 IOI 6.10					
12			60	64						T2 IOI 6.80					
13		0.50m at 18:00	60	43						T2 IOI 7.50					
14		5.70m at 08:00	60	50						T2 IOI 8.30					
15			60	71						T2 IOI 9.00	+3.44	9.00			Extremely weak, dark brown (7.5YR 3/4), spotted white, completely decomposed coarse ash crystal TUFF. (SANDY SILT)
16			60	95						4 9.00					
17															
18															
19															
20	HW	2.60m at													

- Disturbed sample
- Piston sample
- Split spoon sample
- U76 undisturbed sample
- U100 undisturbed sample
- Mazier sample
- SPT liner sample
- ▲ Water sample
- En Environmental Sample
- Standard penetration test
- In-situ vane shear test
- Permeability test
- Pressuremeter test
- Packer Test
- Acoustic or optical televiwer survey
- Piezometer tip
- Standpipe
- Groundwater Sampling Well
- Vibrating wire piezometer
- Impression packer test

LOGGED S. C. Law
DATE 21/12/2020
CHECKED Y. M. Leung
DATE 24/12/2020

REMARKS
1. An inspection pit was excavated to 2.00m.
2. A water sample was taken at 10.10m.
3. A standpipe was installed to 9.50m.
4. Piezometer buckets were installed in standpipe from 0.50 m to 7.00m depth at 0.50m intervals.

[illegible]



Contract No. :
GE/2018/06

Project : Ground Investigation - New Territories West
Agreement No. CE 76/2017(HY) Upgrading of Remaining Sections of Kam Tin Road and Lam Kam Road -
Investigation

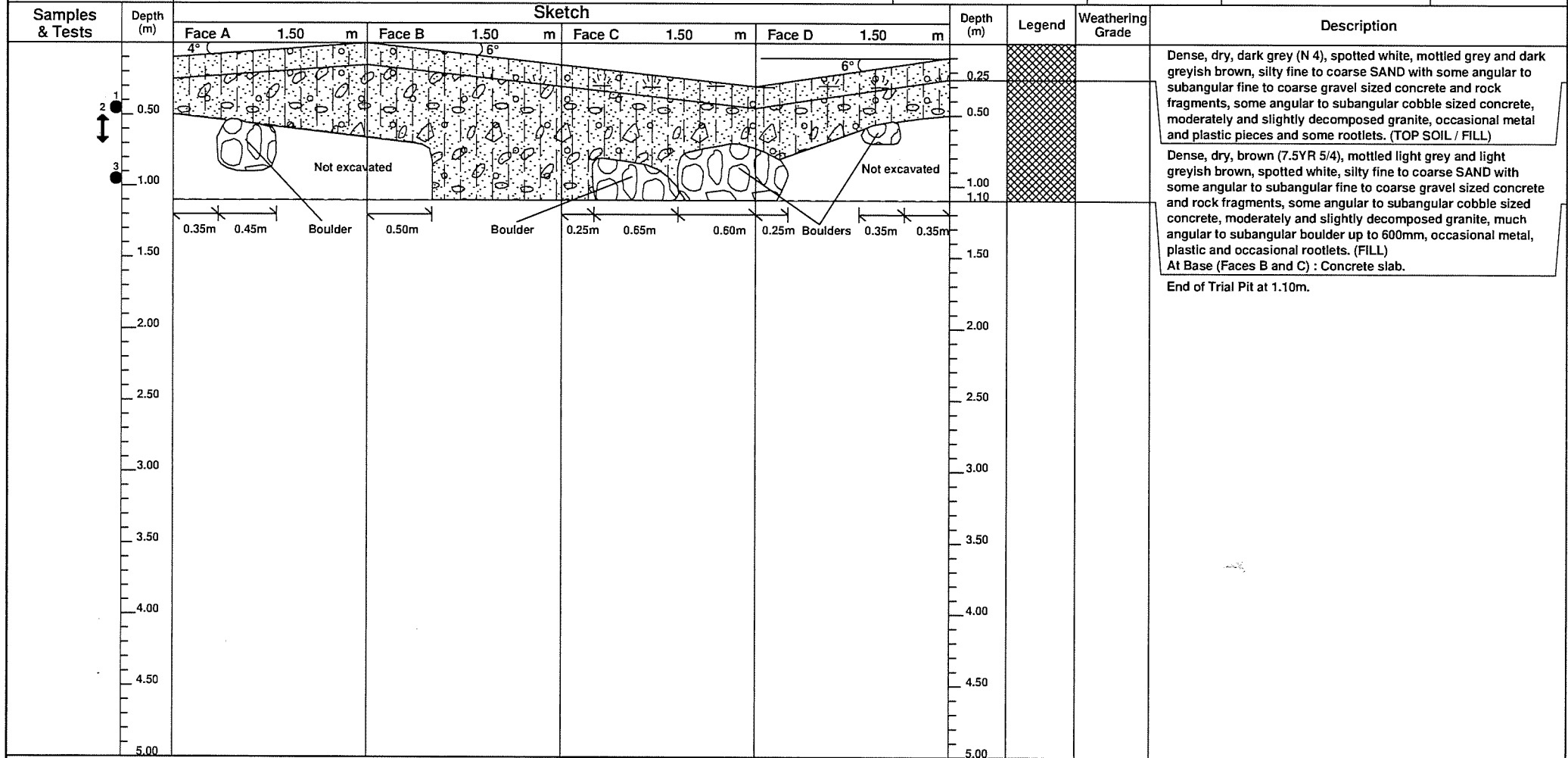
Task Order No. : GE/2018/06.53

LOGGED BY : S. C. Law
DATE : 18/12/2020
CHECKED BY : Y. M. Leung
DATE : 21/12/2020

CO-ORDINATES :
E 826350.73
N 833528.11

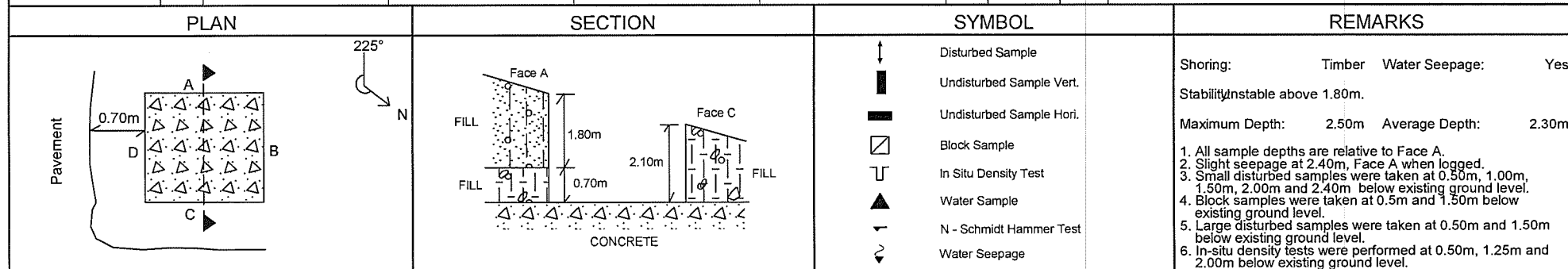
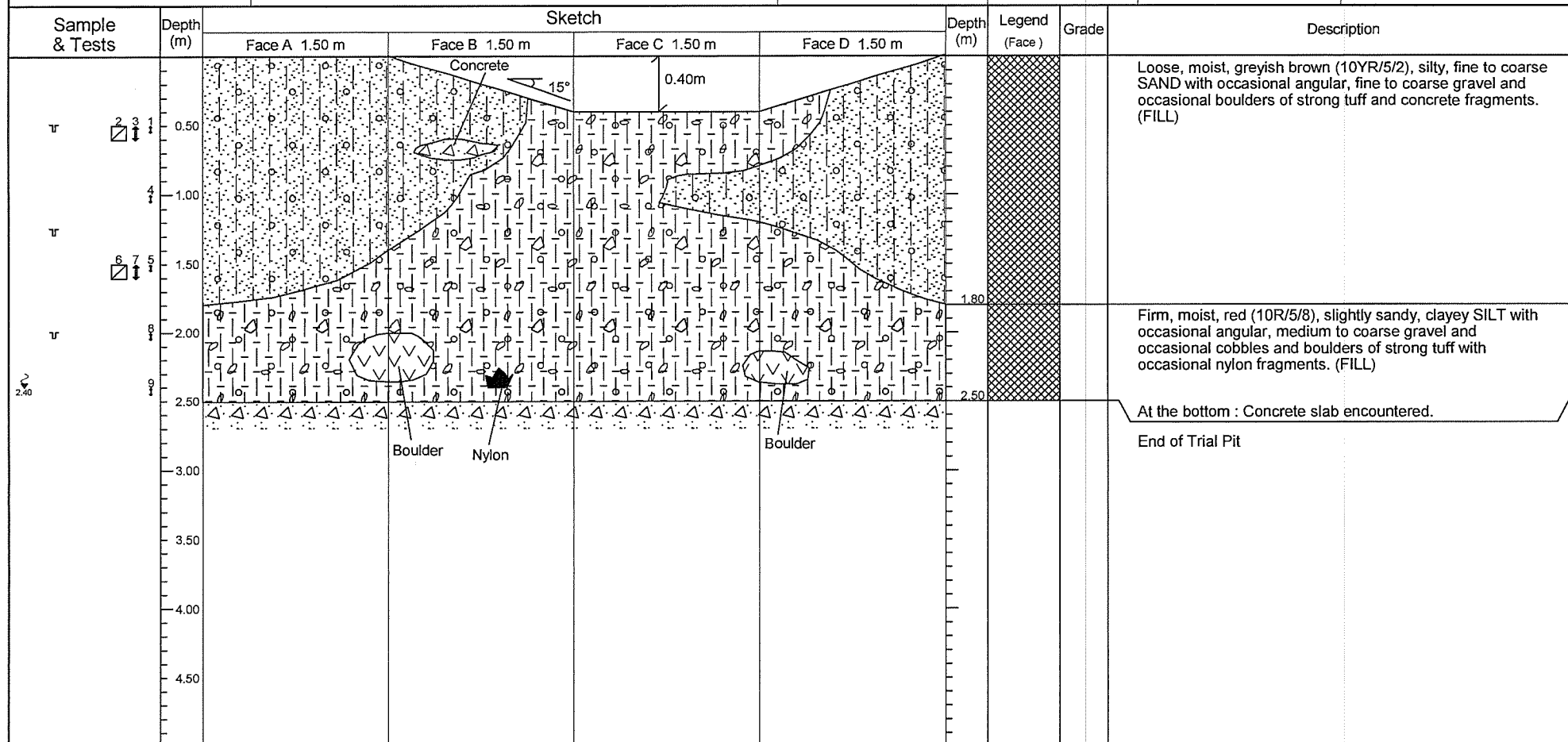
GROUND LEVEL : + 9.46 mPD
EXCAVATION DATES :
17/12/2020
BACKFILL DATES :
28/12/2020

TRIAL PIT NO.
TP 4



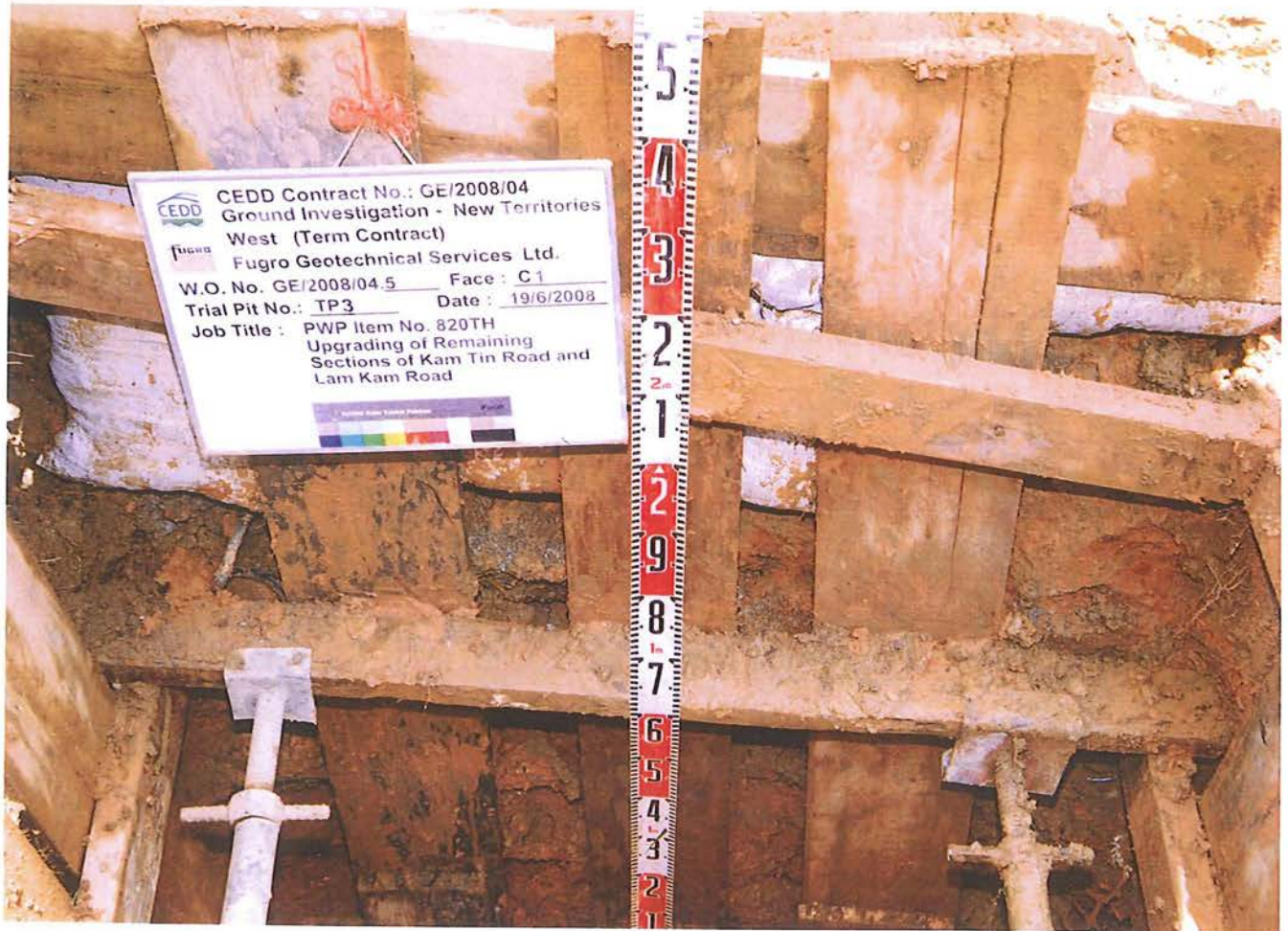
PLAN	SECTION	SYMBOL	REMARKS
		- Small Disturbed Sample - Large Disturbed Sample - Undisturbed Sample Hori. - Undisturbed Sample Vert. - Block Sample - Environmental Sample - In Situ Density Test - Water Seepage - Water Sample - Standpipe Tip - N - Schmidt Hammer Test	Shoring : No shoring Stability : Stable Maximum Depth : 1.10 m Average Depth : 0.96 m Water Seepage : NIL 1. All sample depths are related to mid-point of Face A below ground level. 2. Small disturbed samples were taken at 0.50m and 1.00m. 3. A large disturbed sample was taken at 0.50m. 4. The termination of trial pit at 1.10m was due to the obstruction by boulders and concrete slab.

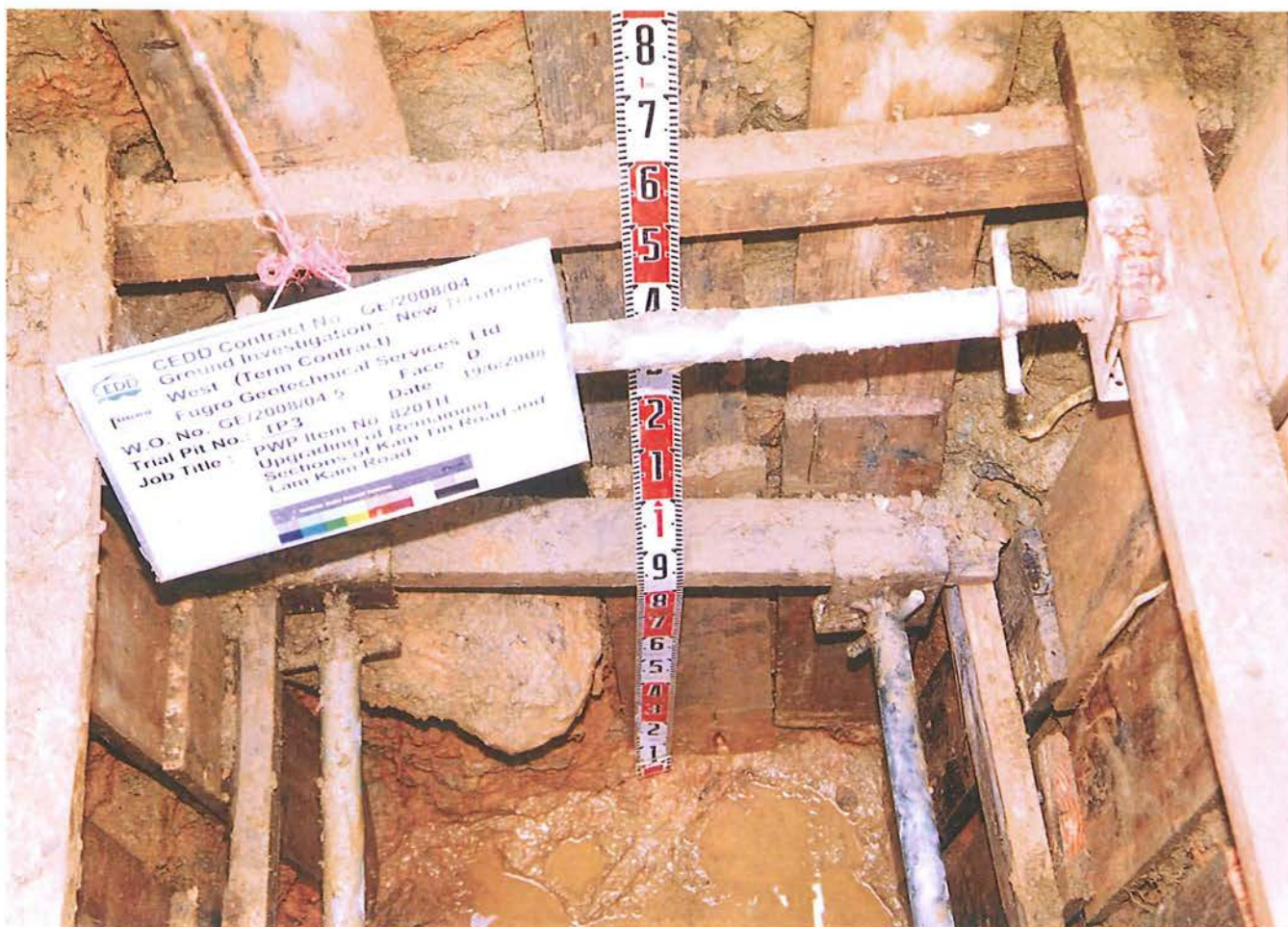
TRIAL PIT RECORD















Project : PWP Item No. 820TH, Upgrading of Remaining Sections of
Kam Tin Road and Lam Kam Road

Logged by : W.P. Yip
Date logged : 18/07/2008
Checked by : A.B. Hollinshead
Date checked : 25/07/2008

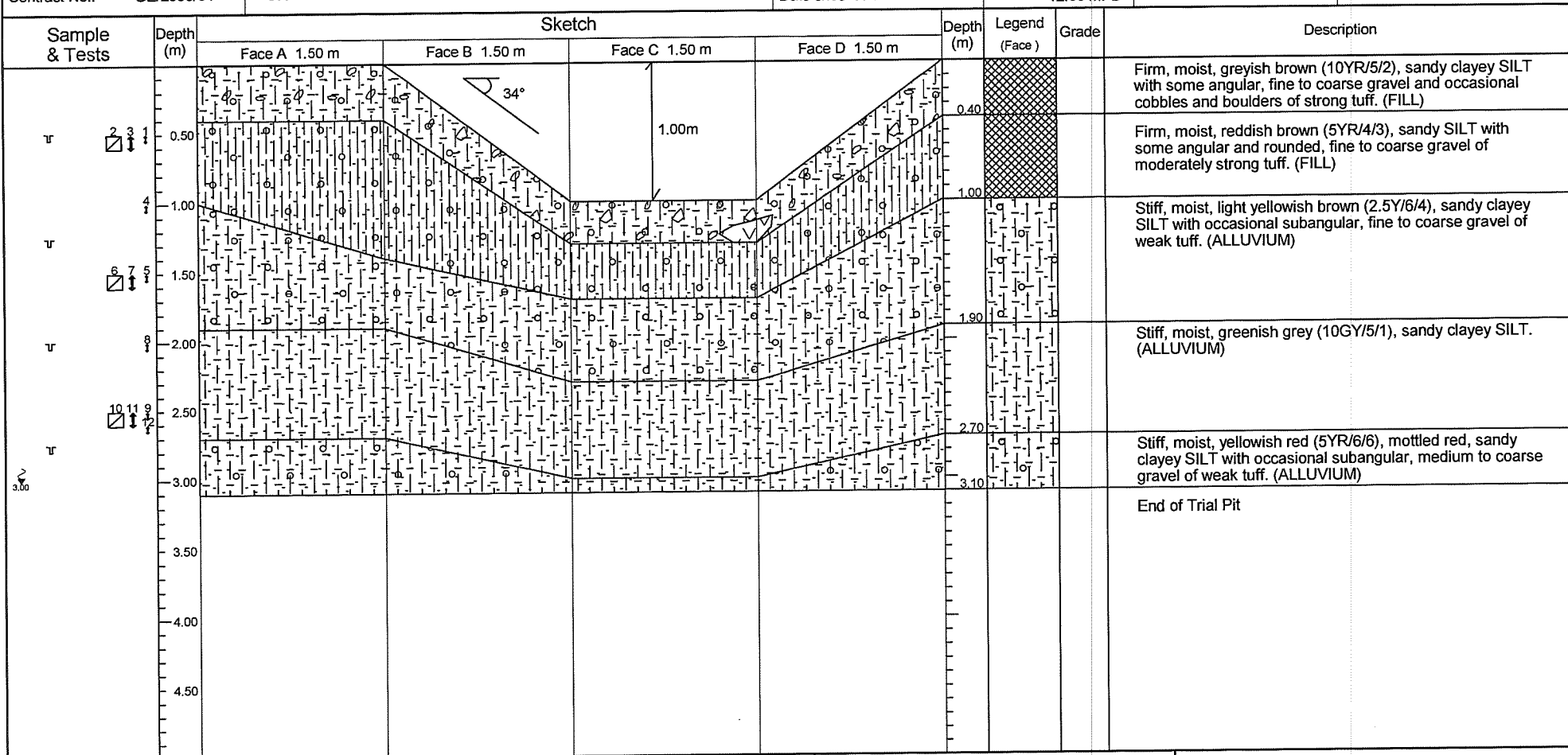
Co-ordinates :
E 826362.99 m
N 833531.24 m
Ground Level :
+12.00 mPD

Excavation Dates:
15/07/2008 to 17/07/2008
Backfill Date:
30/07/2008

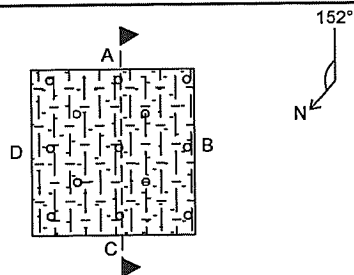
Trial Pit No.:
TPS2

Contract No.: GE/2008/04

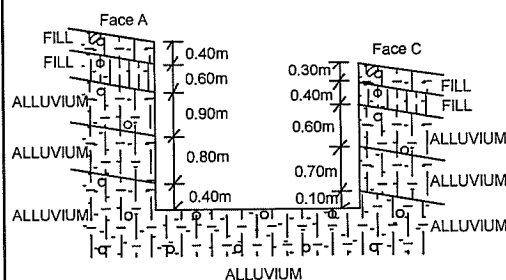
WORKS ORDER No.: GE/2008/04.5



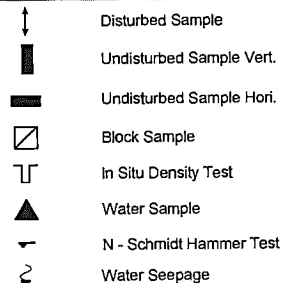
PLAN



SECTION



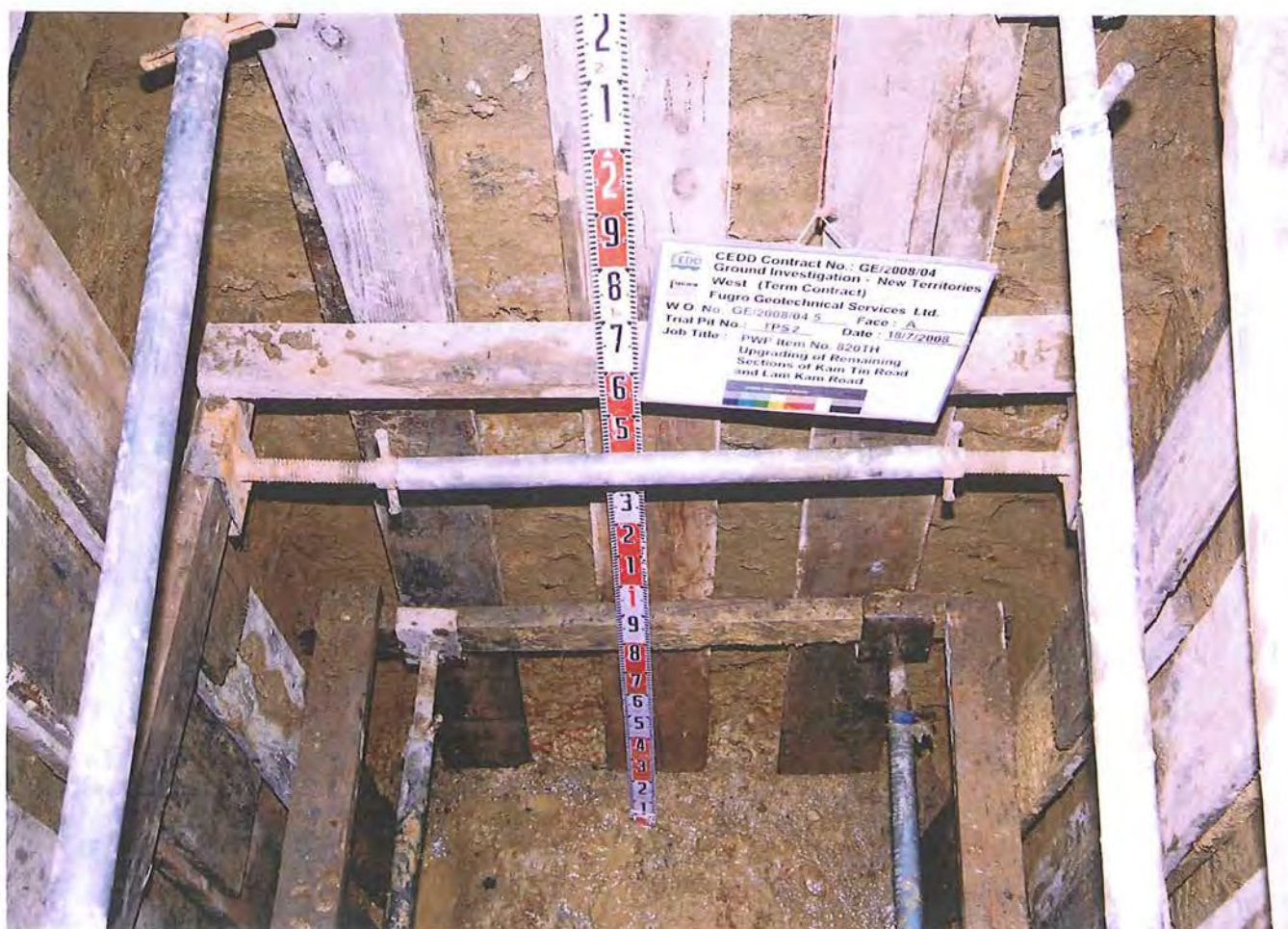
SYMBOL



REMARKS

Shoring: Timber Water Seepage: Yes
Stability: Stable
Maximum Depth: 3.10m Average Depth: 2.60m
1. All sample depths are relative to Face A.
2. Slight seepage at 3.00m, Face A when logged.
3. Small disturbed samples were taken at 0.50m, 1.00m, 1.50m, 2.00m, 2.50m and 2.60m below existing ground level.
4. Block samples were taken at 0.5m, 1.50m and 2.50m below existing ground level.
5. Large disturbed samples were taken at 0.50m, 1.50m and 2.50m below existing ground level.
6. In-situ density tests were performed at 0.50m, 1.25m, 2.00m and 2.75m below existing ground level.
7. A standpipe was installed at 3.10m.

TRIAL PIT RECORD











		Project : PWP Item No. 820TH, Upgrading of Remaining Sections of Kam Tin Road and Lam Kam Road		Logged by : <i>Ben P. Yiu</i>	Co-ordinates : E 826410.09 m N 833560.92 m Ground Level : +12.41 mPD	Excavation Dates: 16/06/2008 to 18/06/2008 Backfill Date: 14/07/2008	Trial Pit No.: TPS3
		Contract No.: GE/2008/04 WORKS ORDER No.: GE/2008/04.5		Date logged : 19/06/2008 Checked by A.B. Hollinshead Date checked : 21/06/2008			

Sample & Tests	Depth (m)	Sketch				Depth (m)	Legend (Face)	Grade	Description
		Face A 1.50 m	Face B 1.50 m	Face C 1.50 m	Face D 1.50 m				
2 3 1 4 6 7 5 8 10 11 9 12	0.50					0.90			Firm, moist, greyish brown (10YR/5/2), sandy, slightly clayey SILT with some subangular, medium to coarse gravel and occasional cobbles and boulders of moderately strong tuff. (FILL)
	1.00								
	1.50								
	2.00								
	2.50								
	3.00					3.50			Stiff, moist, reddish yellow (5YR/6/6), mottled black and red, slightly sandy, clayey SILT with some subrounded to rounded, medium to coarse gravel and occasional cobbles of moderately strong tuff and quartz. (ALLUVIUM)
	3.50								End of Trial Pit
	4.00								
	4.50								

PLAN	SECTION	SYMBOL	REMARKS
		Disturbed Sample Undisturbed Sample Vert. Undisturbed Sample Hori. Block Sample In Situ Density Test Water Sample N - Schmidt Hammer Test Water Seepage	Shoring: Yes Water Seepage: Yes Stability: Stable Maximum Depth: 3.50m Average Depth: 3.00m 1. All sample depths are relative to Face A. 2. Slight seepage at 3.20m, Face A when logged. 3. Small disturbed samples were taken at 0.50m, 1.00m, 1.50m, 2.00m, 2.50m and 3.00m below existing ground level. 4. Block samples were taken at 0.50m, 1.50m and 2.50m below existing ground level. 5. Large disturbed samples were taken at 0.50m, 1.50m and 2.50m below existing ground level. 6. In-situ density tests were performed at 0.50m, 1.25m, 2.00m and 2.75m below existing ground level. 7. A standpipe was installed at 2.94m.

TRIAL PIT RECORD











VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 1 of 3

CONTRACT NO. <u>GC/87/07</u>		DRILLHOLE RECORD		W.O. NO. <u>PW7/2/23.29</u>	
				HOLE NO. <u>BH8</u>	
				DATE from <u>22-12-87</u> to <u>23-12-87</u>	
PROJECT <u>British Military Hospital at Shek Kong</u>					
METHOD <u>Rotary</u>		CO-ORDINATES E <u>26339.10</u> N <u>33473.44</u>		ROCK COREBIT <u>T.C. & Diamond</u>	
MACHINE & NO. <u>DR77</u>				HOLE DIA. <u>PX,HX,T2101, TNW</u>	
FLUSHING MEDIUM <u>Water</u>		ORIENTATION <u>Vertical</u>		GROUND LEVEL <u>+12.43 m.p.d.</u>	

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
22/12/87											0.00				
															Medium dense, brown, silty fine to coarse SAND with gravel(FILL)
										+10.93	1.50				
								N=20	1		1.95				Very stiff, yellow, clayey SILT (ALLUVIUM)
									M		2.50				
									2		3.50				Medium dense, light greyish white, clayey fine to medium SAND with gravel (ALLUVIUM)
								N=20	3		3.95				
									M		4.50				
									4		5.50				Very stiff, yellow, clayey sandy SILT with gravel (ALLUVIUM)
								N=16	5		5.95				
									M		6.50				
									6		6.70				
															COBBLES in gravelly silty sand matrix (ALLUVIUM)
										+4.93	7.50				
								N=27	7		7.95			V A	Medium dense, brown mottled white, silty fine SAND (C.W. GRANODIORITE)
									M		8.50				Medium dense, yellowish brown mottled white, very silty fine SAND (C.W. GRANODIORITE)
								N=14	8		9.50			V A	
									9		9.95				

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▽ WATER LEVEL

⬇ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST

— PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Wong

REMARKS: DRAWN BY: CHECKED BY: 72

M MAZIER SAMPLE ■ UNDISTURBED SAMPLE

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 2 of 3

CONTRACT NO. <u>GC/87/07</u>		DRILLHOLE RECORD		W.O. NO. <u>PW7/2/23.29</u>	
				HOLE NO. <u>BH8</u>	
				DATE from <u>22-12-87</u> to <u>23-12-87</u>	
PROJECT <u>British Military Hospital at Shek Kong</u>					
METHOD <u>Rotary</u>		CO-ORDINATES E <u>26339.10</u> N <u>33473.44</u>		ROCK COREBIT <u>T.C. & Diamond</u>	
MACHINE & NO. <u>DR77</u>				HOLE DIA. <u>PX,HX,T2101, TNW</u>	
FLUSHING MEDIUM <u>Water</u>		ORIENTATION <u>Vertical</u>		GROUND LEVEL <u>+12.43</u> m.P.D.	

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	RQD	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
22/12/87											10.00				
											10.50	x x	V	A	Ditto (C.W.Gd.)
		2.72m 13:00		98					M			x x			
									10		1.50	x x			Medium dense,
									11		1.95	x x			brownish grey
								N=20			2.50				
				98					M			x x	V	A	mottled white,
									12		3.50	x x			
									13		3.95	x x			very silty fine
								N=22			4.50				
									M			x x			SAND
		HX	80	98					14		5.50	x x			(C.W.GRANODIORITE)
									15		5.95	x x			Dense, brownish grey
								N=35			6.50	x x			mottled white, very silty
									M			x x			fine SAND
				98					16		7.50	x x	V	A	(C.W. GRANODIORITE)
									17		7.95	x x			Very dense, grey
		3.10m 18:00						N=66			8.50	x x			mottled white, silty
										-6.07					fine to medium SAND
									18		9.50	x x			with rock fragments
		3.98m 8:00		85					M			x x	IV	B	(H.W. GRANODIORITE)
									19		9.54	x x			
										-7.11					
											20.00	x x	IV/ III	C	
	T2101			55	0	0	F	(200 40mm)							Details as next page

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▼ WATER LEVEL M MAZIER SAMPLE
 † BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST ■ UNDISTURBED SAMPLE
 — PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Wax
 REMARKS: F : Fractured DRAWN BY: Wax CHECKED BY: Jo

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 3 of 3

CONTRACT NO. <u>GC/87/07</u>										DRILLHOLE RECORD										W.O. NO. <u>PW7/2/23.29</u>									
																				HOLE NO. <u>BH8</u>									
																				DATE from <u>22-12-87</u> to <u>23-12-87</u>									
PROJECT <u>British Military Hospital at Shek Kong</u>																													
METHOD <u>Rotary</u>										CO-ORDINATES E <u>26339.10</u> N <u>33473.44</u>										ROCK COREBIT <u>T.C. & Diamond</u>									
MACHINE & NO. <u>DR77</u>																				HOLE DIA. <u>PX,HX,T2101, TNW</u>									
FLUSHING MEDIUM <u>Water</u>										ORIENTATION <u>Vertical</u>										GROUND LEVEL <u>+12.43</u> m.P.D.									

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
23/12/87	T2101			55	0	0	F				20.00	x x			Weak to moderately strong, grey mottled white, coarse grained, highly to moderately weathered GRANODIORITE with very closely to closely spaced weathered and some iron stained joints; fractured (H/M.W.GRANODIORITE)
											21.00	x x			
				77	11	0	F				21.90	x x	IV/III	C	
											22.50	x x			
			70	100	25	0	18.9			-10.60	23.03	x x			
	TNW			100	98	96	4.5					x x			Strong, grey mottled white, coarse grained, slightly weathered GRANODIORITE with closely to medium spaced some manganese stained joints (S.W. GRANODIORITE)
												x x	II	D	
												x x			
23/12/87		3.25m 13:00								-12.14	24.57				Bottom of Hole

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▽ WATER LEVEL M MAZIER SAMPLE
 † BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST ■ UNDISTURBED SAMPLE
 —●— PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Wong CHECKED BY: Jo

REMARKS: F : Fractured

G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH 8

DEPTH: 0.00 M. TO 23.03 M.

DATE: 29-12-87

BOX 1 OF 2



0

0.5m

1m



G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH8

DEPTH: 23.03 m. TO 24.57 m.

DATE: 29-12-87

BOX 2 OF 2



23.03

24.57
END

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 1 of 3

CONTRACT NO.
GC/87/07

DRILLHOLE RECORD

W.O. NO. PW7/2/23.29
HOLE NO. BH9
DATE from 23-12-87 to 25-12-87

PROJECT British Military Hospital at Shek Kong

METHOD Rotary

CO-ORDINATES
E 26353.92
N 33498.75

ROCK COREBIT T.C. & Diamond

MACHINE & NO. DR77

HOLE DIA. PX,HX,T2101, TNW

FLUSHING MEDIUM Water

ORIENTATION Vertical

GROUND LEVEL +12.18 m.p.d.

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
23/12/87											0.00				
												x			Medium dense, brown, silty SAND with gravel (FILL)
											10.68	x			
											1.95	x			Medium dense, dark brown, silty fine to medium SAND(ALLUVIUM)
											2.50	x			
	PX											x			Very stiff, reddish yellow mottled grey, clayey sandy SILT with gravel (ALLUVIUM)
											3.50	x			
											3.95	x			
											4.50	x			
											5.30	x			
											5.90	x			COBBLES & GRAVEL in brown silty sand matrix (ALLUVIUM)
											6.50	x			
											7.10	x			
											7.50	x			
											7.95	x			Medium dense, dark brown, silty fine to medium SAND with gravel (ALLUVIUM)
											8.50	x			
											8.80	x			
											9.50	x			COBBLES in sandy silt matrix (ALLUVIUM)
											9.95	x			Details as next page

● SMALL DISTURBED SAMPLE
↑ BULK DISTURBED SAMPLE
— PERMEABILITY TEST
REMARKS:

L S.P.T. LINER SAMPLE
▲ WATER SAMPLE
HE HAND EXCAVATION

▼ WATER LEVEL
↓ STANDARD PENETRATION TEST
LOGGED BY: Wong
DRAWN BY:

M MAZIER SAMPLE
■ UNDISTURBED SAMPLE
CHECKED BY: 70

SITE INVESTIGATION DEPARTMENT

Page 2 of 3

CONTRACT NO.
GC/87/07

DRILLHOLE RECORD

W.O. NO. PW7/2/23.29
HOLE NO. BH9
DATE from 23-12-87 to 25-12-87

PROJECT British Military Hospital at Shek Kong

METHOD	Rotary
--------	--------

CO-ORDINATES
E 26353.92
N 33498.75

ROCK COREBIT T.C. & Diamond

MACHINE & NO. DR77

HOLE DIA. PX, HX, T2101, TNW

FLUSHING MEDIUM	Water
-----------------	-------

ORIENTATION Vertical

GROUND LEVEL +12.18 m.P.D.

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
24/12/87	12"										10.00	x x x			
		3.07m 12:00		98					M	+1.68	10.50	x x x			Stiff, yellowish brown, sandy SILT with gravel (ALLUVIUM)
		3.50m 13:00						N=22	9		11.50	x x			
									10		11.95	x x			Medium dense, brownish
				98					M		12.50	x x	V	A	grey, very silty fine
									11		13.50	x x			SAND
									12		13.95	x x			(C.W.Gd)
			80					N=20	M		14.50	x x			
				98					13		15.50	x x	V	A	Dense, greenish brown, very silty fine SAND (C.W.Gd)
									14		15.95	x x			
				30				N=52	M		16.50	x x			Weak to moderately strong, brownish grey, coarse grained, highly to moderately weathered GRANODIORITE; fractured (H/M.W.Gd)
				73	11	11	F		15	4.82	17.00	x x	IV/III	B	
												x x			Moderately strong, brownish grey, coarse grained, moderately weathered GRANODIORITE with very closely to medium spaced manganese stained joints (M.W.Gd)
										-5.87	18.05	x x			
24/12/87		3.17m 18:00		100	47	47	6.6				18.81	x x	III	C	
							F				19.05	x x			
25/12/87		4.07m 8:00		100	47	30	15.4			-7.07	19.25	x x			
			70									x x	II	D	Details as next page

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▽ WATER LEVEL M MAZIER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST ■ UNDISTURBED SAMPLE
 —●— PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Wox
 REMARKS: F: Fractured DRAWN BY: Wox CHECKED BY: Jw

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 3 of 3

CONTRACT NO. GC/87/07				DRILLHOLE RECORD				W.O. NO. <u>PW7/2/23.29</u>			
								HOLE NO. <u>BH9</u>			
								DATE from <u>23-12-87</u> to <u>25-12-87</u>			
PROJECT <u>British Military Hospital at Shek Kong</u>											
METHOD <u>Rotary</u>				CO-ORDINATES E <u>26353.92</u> N <u>33498.75</u>				ROCK COREBIT <u>T.C. & Diamond</u>			
MACHINE & NO. <u>DR77</u>								HOLE DIA. <u>PX,HX,T2101, TNW</u>			
FLUSHING MEDIUM <u>Water</u>				ORIENTATION <u>Vertical</u>				GROUND LEVEL <u>+12.18 m.P.D.</u>			

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
25/12/87	TNW	3.26m 11:00	70	100	47	30	15.4				20.00				
				100	78	69	7.9				20.09	X X			Strong, grey speckled white & green, coarse grained, slightly weathered GRANODIORITE with very closely to medium spaced manganese & some iron stained joints (S.W.Gd)
				100	93	93	4.0				21.61	X X	II	D	
25/12/87										-10.44	22.62	X X			
															Bottom of Hole

● SMALL DISTURBED SAMPLE

⬆ BULK DISTURBED SAMPLE

— PERMEABILITY TEST

L S.P.T. LINER SAMPLE

▲ WATER SAMPLE

HE HAND EXCAVATION

▼ WATER LEVEL

↓ STANDARD PENETRATION TEST

M MAZIER SAMPLE

■ UNDISTURBED SAMPLE

LOGGED BY: Woj

CHECKED BY: 70

REMARKS:

G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH9

DEPTH: 0.00 M. TO 20.09 M.

DATE: 29-12-87

BOX 1 OF 2

0

0.5m

1m



G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH 9

DEPTH: 20.09 m. TO 22.62 m.

DATE: 29-12-87

BOX 2 OF 2

0

0.5m

1m

20.09

21.61

22.62
END

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 1 of 3

CONTRACT NO. <u>GC/87/07</u>		DRILLHOLE RECORD		W.O. NO. <u>PW7/2/23.29</u>		HOLE NO. <u>BH11</u>	
				DATE from <u>25-12-87</u> to <u>28-12-87</u>			
PROJECT <u>British Military Hospital at Shek Kong</u>							
METHOD <u>Rotary</u>			CO-ORDINATES E <u>26389.00</u> N <u>33526.03</u>			ROCK COREBIT <u>T.C. & Diamond</u>	
MACHINE & NO. <u>DR75</u>						HOLE DIA. <u>PX,HX,T2101,TNW</u>	
FLUSHING MEDIUM <u>Water</u>			ORIENTATION <u>Vertical</u>			GROUND LEVEL <u>+12.65 m.p.d.</u>	

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
25/12/87											0.00				
															Medium dense, brown, silty fine to coarse SAND with gravel (FILL)
											+11.15				
									1		1.95				Medium dense, brownish yellow, clayey silty fine to medium SAND with gravel (ALLUVIUM)
								N=11			2.50				
															COBBLES in gravelly silty sand matrix (ALLUVIUM)
											3.50				
									2		3.95				Medium dense, pinkish brown, slightly clayey silty fine to medium SAND with gravel (ALLUVIUM)
									M		4.50				
									3		5.50				
									4		5.95				
								N=8			6.50				
									M						Medium dense, brownish yellow, slightly clayey silty fine to medium SAND with gravel (ALLUVIUM)
									5		7.50				
									6		7.95				
								N=18			8.50				
									M						Medium dense, brownish grey speckled white & green, very silty fine SAND (C.W.GRANODIORITE)
									7		9.50				
								N=28			9.95				
									8						

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▼ WATER LEVEL

⬆ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST

— PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Wong

REMARKS:

M MAZIER SAMPLE ■ UNDISTURBED SAMPLE

DRAWN BY: Wong CHECKED BY: Ji

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 2 of 3

CONTRACT NO. GC/87/07		DRILLHOLE RECORD										W.O. NO. PW7/2/23.29		HOLE NO. BH11		DATE from 25-12-87 to 28-12-87			
PROJECT British Military Hospital at Shek Kong														METHOD Rotary		CO-ORDINATES E 26389.00 N 33526.03		ROCK COREBIT T.C. & Diamond	
MACHINE & NO. DR75														FLUSHING MEDIUM Water		ORIENTATION Vertical		GROUND LEVEL +12.65 m.p.d.	
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description				
25/12/87											10.00								
		1.82m 13:00		100					M		10.05	X X			Medium dense, brownish				
									9			X X			grey speckled white				
									10		11.05	X X		V A	& green, very silty				
											11.95	X X			fine SAND				
											12.50				(C.W.Gd)				
									M			X X			Medium dense, greenish				
				100					11		13.50	X X			grey, very silty fine				
									12		13.95	X X		V A	SAND				
			85								14.50	X X			(C.W.Gd)				
									M			X X							
				80					13	2.85	15.50								
									14		15.80	X X		IV A	Very dense, greenish grey, silty SAND with rock fragments (H.W.Gd)				
										3.80	16.45	X X							
											16.85	X X		IV/III B	Weak, greenish grey, coarse grained, highly to moderately weathered GRANODIORITE; fractured				
25/12/87	T210	3.10m 18:00		100	7	0	F			4.35	17.00	X X							
28/12/87		4.05m 8:00		100	73	51	8.7			5.05	17.70	X X		III C					
												X X			Moderately strong, grey speckled white, coarse grained, moderately weathered GRANODIORITE with very closely to closely spaced manganese stained joints				
											18.46	X X							
											19.51	X X							
											19.96	X X							
				100	100	100	0								Details as next page				

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▽ WATER LEVEL M MAZIER SAMPLE
 ↑ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST ■ UNDISTURBED SAMPLE
 — PERMEABILITY TEST HE HAND EXCAVATION
 REMARKS: F : Fractured LOGGED BY: DRAWN BY: CHECKED BY:

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 3 of 3

CONTRACT NO.
GC/87/07

DRILLHOLE RECORD

W.O. NO. PW7/2/23.29
HOLE NO. BH11
DATE from 25-12-87 to 28-12-87

PROJECT British Military Hospital at Shek Kong

METHOD Rotary

CO-ORDINATES
E 26389.00
N 33526.03

ROCK COREBIT T.C. & Diamond

MACHINE & NO. DR75

HOLE DIA. PX,HX,T2101,TNW

FLUSHING MEDIUM Water

ORIENTATION Vertical

GROUND LEVEL +12.65 m.P.D.

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
28/12/87	TNW	3.02m 12:00	70	100	97	93	3.9				20.00	X X			Strong, grey speckled white & green, coarse grained slightly weathered GRANODIORITE with very closely to widely spaced manganese stained joints
				100	89	85	1.2				21.51	X X	II	D	
										-9.71	22.36	X X			
															Bottom of Hole

● SMALL DISTURBED SAMPLE
⬇ BULK DISTURBED SAMPLE
— PERMEABILITY TEST
REMARKS:

L S.P.T. LINER SAMPLE
▲ WATER SAMPLE
HE HAND EXCAVATION

▼ WATER LEVEL
↓ STANDARD PENETRATION TEST
LOGGED BY: WSP
DRAWN BY: WSP

M MAZIER SAMPLE
■ UNDISTURBED SAMPLE
CHECKED BY: JS

VIBRO (HK) LTD

WORKS ORDER NO: PW 7/2/23.29

HOLE NO: BH11

DEPTH: 0.00 M. TO 19.51 M.

DATE: 29-12-87

BOX 1 OF 2



0.5M

1m



G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH11

DEPTH: 19.51 M. TO 22.36 M.

DATE: 29-12-87

BOX 2 OF 2



0

0.5m

1m



VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 1 of 3

CONTRACT NO.
GC/87/07

DRILLHOLE RECORD

W.O. NO. PW7/2/23.29
HOLE NO. BH13
DATE from 21-12-87 to 23-12-87

PROJECT British Military Hospital at Shek Kong

METHOD Rotary

CO-ORDINATES

ROCK COREBIT T.C. & Diamond

MACHINE & NO. DR75

E 26431.65
N 33537.17

HOLE DIA. PX,HX,T2101,TNW

FLUSHING MEDIUM Water

ORIENTATION Vertical

GROUND LEVEL +13.30 m.P.D.

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
21/12/87											0.00				Medium dense, brown, silty fine to coarse SAND with gravel (FILL)
				Inspection Pit						+11.80	1.50				
								N=26	1.		1.95				Very stiff, reddish yellow, clayey sandy SILT (ALLUVIUM)
	PX										2.50				COBBLES in gravelly silty sand matrix (ALLUVIUM)
	T2101			48							3.50				
								N=25	2.		3.95				Very stiff, reddish brown mottled grey, sandy SILT (ALLUVIUM)
											4.06				COBBLES in gravelly sandy silt matrix (ALLUVIUM)
	T2101		85	58							5.10				
				83							5.45				
								N=13	3.		5.50				Stiff to very stiff, yellowish brown mottled grey, clayey sandy SILT with gravel (ALLUVIUM)
									M		5.95				
				90							6.50				
									4.		7.50				
											7.95				
	HX	3.27m						N=19	5.		8.05				COBBLES in gravelly clayey sand matrix (ALLUVIUM)
21/12/87	T2101	18:00		86						+4.90	8.40				
22/12/87		4.10m							M		8.50				
		8:00													
			75	100				N=23	6.		9.50				
									7.		9.50				Details as next page

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▽ WATER LEVEL M MAZIER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST ■ UNDISTURBED SAMPLE
 — PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: DRAWN BY: CHECKED BY:

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 2 of 3

CONTRACT NO. GC/87/07		DRILLHOLE RECORD		W.O. NO. PW7/2/23.29		HOLE NO. BH13		DATE from 21-12-87 to 23-12-87							
PROJECT British Military Hospital at Shek Kong															
METHOD Rotary				CO-ORDINATES E 26431.65 N 33537.17				ROCK COREBIT T.C. & Diamond							
MACHINE & NO. DR75								HOLE DIA. PX,HX,T2101,TNW							
FLUSHING MEDIUM Water				ORIENTATION Vertical				GROUND LEVEL +13.30 m.P.D.							
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
22/12/87											10.00	X X			
											10.50	X X			Medium dense, pinkish brown mottled white, very silty fine SAND (C.W.GRANODIORITE)
				100					M						
									8		11.50	X X	V	A	
		2.67m 12:00						N=18	9		11.95	X X			
											12.50	X X			
				100					M						Medium dense to dense, brownish grey mottled white, very silty fine SAND (C.W. GRANODIORITE)
		3.10m 13:00							10		13.50	X X			
								N=28	11		13.95	X X			
											14.50	X X	V	A	
				75					M						
				95					12		15.50	X X			
									13		15.95	X X			
								N=120			16.15	X X			Moderately strong to strong, grey mottled white and green, coarse grained, moderately to slightly weathered GRANODIORITE with very closely to medium spaced some manganese stained joints, partly fractured (M/S.W. GRANODIORITE)
											16.35	X X			
				100	57	31	9.2								
											17.45	X X	III/II	C	
				100	37	37	12.2								
											18.43	X X			
				100	27	0	F				18.87	X X			
		2.39m 18:00		100	72	65	6.8				19.37	X X			
											20.00	X X	II	D	Details as next page

● SMALL DISTURBED SAMPLE L S.P.T. LINER SAMPLE ▼ WATER LEVEL

↑ BULK DISTURBED SAMPLE ▲ WATER SAMPLE ↓ STANDARD PENETRATION TEST

— PERMEABILITY TEST HE HAND EXCAVATION LOGGED BY: Way

REMARKS: F : Fractured DRAWN BY: Way CHECKED BY: Jo

M MAZIER SAMPLE ■ UNDISTURBED SAMPLE

VIBRO (H. K.) LTD.

SITE INVESTIGATION DEPARTMENT

Page 3 of 3

CONTRACT NO.
GC/87/07

DRILLHOLE RECORD

W.O. NO. PW7/2/23.29
HOLE NO. BH13
DATE from 21-12-87 to 23-12-87

PROJECT British Military Hospital at Shek Kong

METHOD Rotary

CO-ORDINATES
E 26431.65
N 33537.17

ROCK COREBIT T.C. & Diamond

MACHINE & NO. DR75

HOLE DIA. PX,HX,T2101,TNW

FLUSHING MEDIUM Water

ORIENTATION Vertical

GROUND LEVEL +13.30 m.P.D.

Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R Q D	Fracture Index/m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
22/12/87				100	72	65	6.8				20.00	X X			Strong, grey mottled white and green, coarse grained, slightly weathered GRANODIORITE with closely to medium spaced joints (S.W.GRANODIORITE)
23/12/87	TNW	3.85m	75	100	85	63	8.3				20.40	X X			
		8:00									21.24	X X	II	D	
										-7.94					Bottom of Hole

● SMALL DISTURBED SAMPLE
† BULK DISTURBED SAMPLE
— PERMEABILITY TEST
REMARKS:

L S.P.T. LINER SAMPLE
▲ WATER SAMPLE
HE HAND EXCAVATION

▼ WATER LEVEL
↓ STANDARD PENETRATION TEST
LOGGED BY: Wong
DRAWN BY: Wong

M MAZIER SAMPLE
■ UNDISTURBED SAMPLE

CHECKED BY: Wong

G.C.O. CONTRACT NO. GC/87/07

SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH 13

DEPTH: 0.00 M. TO 17.45 M.

DATE: 29-12-87

BOX 1 OF 2



G.C.O. CONTRACT NO. GC/87/07
SITE INVESTIGATION — NEW TERRITORIES WEST

VIBRO (HK) LTD

SITE: BRITISH MILITARY HOSPITAL AT SHEK KONG

WORKS ORDER NO: PW7/2/23.29

HOLE NO: BH13

DEPTH: 17.45 M. TO 21.24 M.

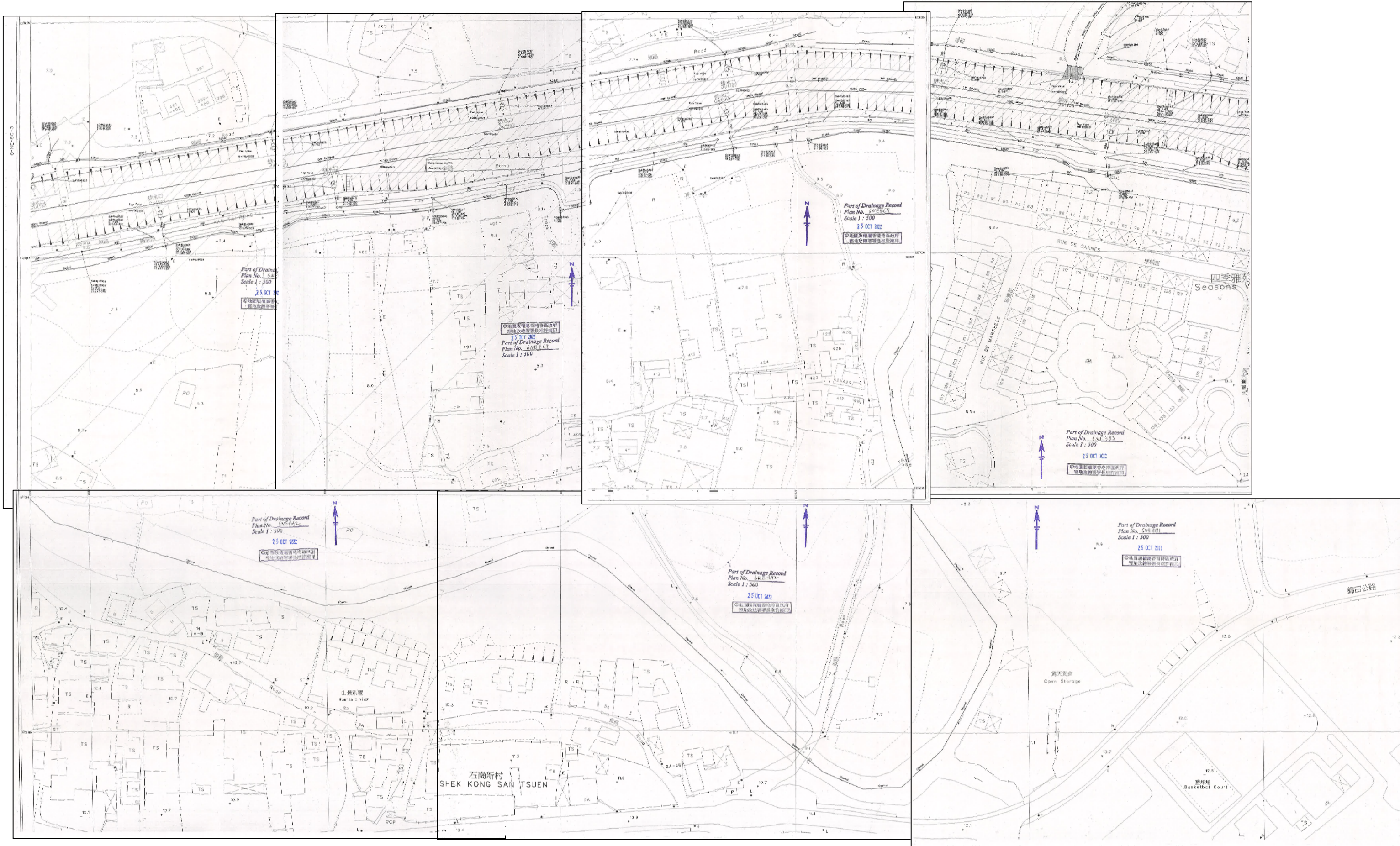
DATE: 29-12-87

BOX 2 OF 2



Appendix F

Records of Existing Utilities



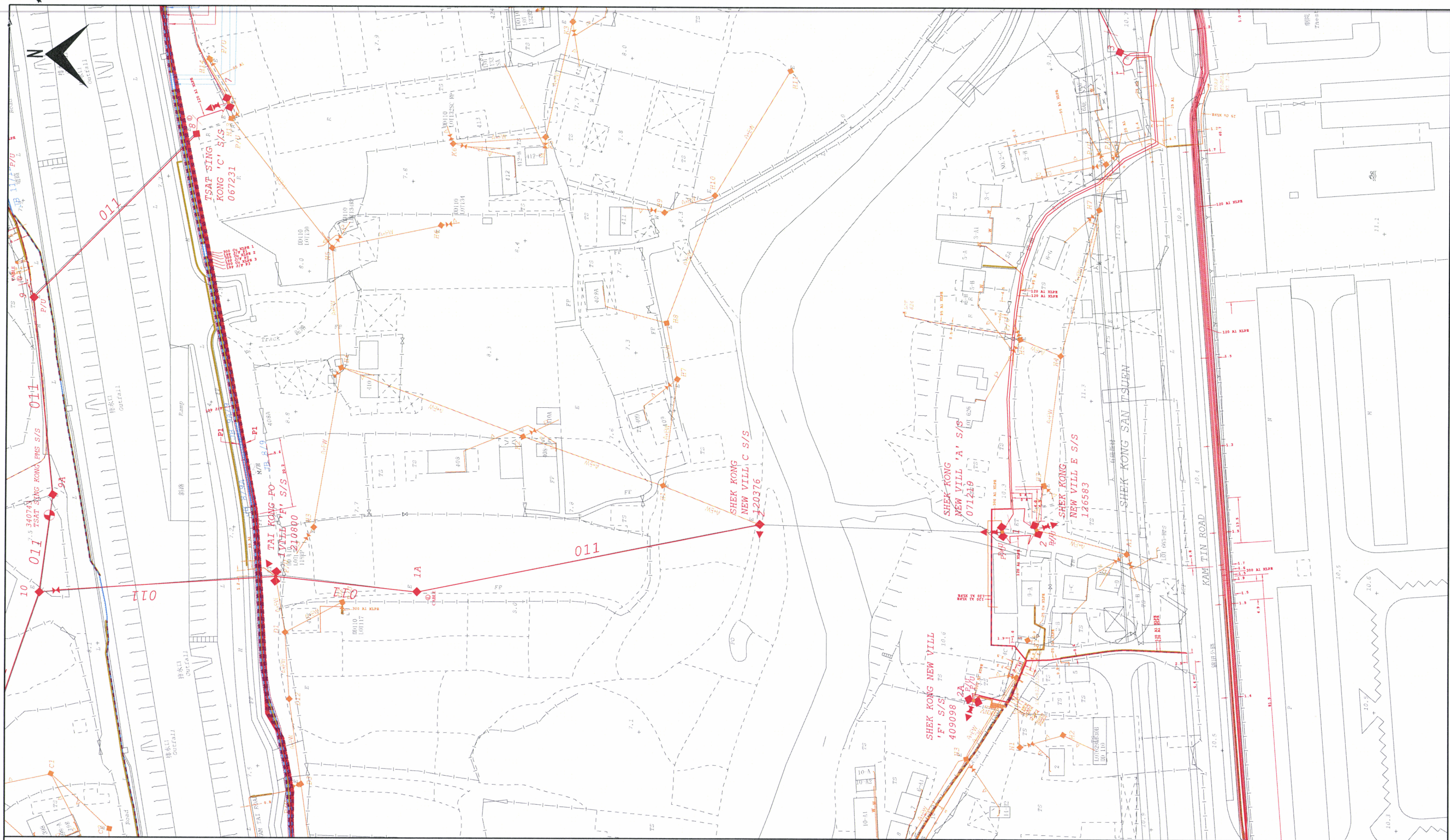
Legend for Drainage Record Plan

	Storm Water Manhole		Existing Pipe (Storm/Sewer/Combined)
	Storm Water Terminal Manhole		Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
	Storm Water Special Manhole		Rising Main (Storm/Sewer)
	Sewer Manhole		Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
	Sewer Terminal Manhole		Vacuum Sewer
	Sewer Special Manhole		Existing Vacuum Sewer (Planning / Identifying to be Abandoned)
	Combined Manhole		Abandoned Pipe
	Catchpit		Abandoned Pipe (Filled with Materials)
	Desilting Opening		Proposed Pipe (Storm/Sewer)
	Inspection Opening		Works In Progress Pipe (Storm/Sewer)
	Dry Weather Flow Interceptor		Not Yet Commissioned Pipe (Storm/Sewer)
	Sand Trap		Existing U Channel / Stepped Channel (Storm)
	Inlet		Proposed U Channel / Stepped Channel (Storm)
	Outlet		Works In Progress U Channel / Stepped Channel (Storm)
	Gully Sump / Gully		Existing Submarine Outfall with Diffuser
	Tapping Point (Storm/Sewer)		Proposed Submarine Outfall with Diffuser
	Overflow (Sewer/Combined)		Works In Progress Submarine Outfall with Diffuser
	Interface Valve Chamber		Slope Sign Board
	Oil / Petrol Interceptor		Slope Number
	Valve		Slope Boundary
	Spot Level (Storm/Sewer)		Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
	Water Gauge		(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)
	Fencing/Railing/Concrete Parapet		Harbour Area Treatment Scheme Sewage Tunnel Protection Area (200m width)
	Tunnel / Box Culvert (Storm/Sewer)		(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)
	Drainage Reserve		
	Tunnel Protection Zone		
	Existing Y-Junction (Storm/Sewer/Combined)		

Notes :

- All levels are given in metres above principal datum.
- All dimensions shown are in millimetres unless otherwise stated.
- The information shown on the record drawings are subject to verification on site and no guarantee can be given that this is a complete record.
- Abbreviations for Channels of width smaller or equal to 1200mm:
900C = 900mm width Surface Channel
900SC = 900mm width Stepped Channel
900UC = 900mm width U Channel
900DWF = 900mm width Dry Weather Flow Channel
- The Incoming Pipes are marked A1, A2, A3, ... counting clockwise from the first Outgoing Pipe X1. Outgoing Pipes are marked X1, X2, X3 ... counting clockwise from North.
eg.

Manhole number
Cover Level or Ground Level
CL 4.68
A1 1.14-225 — 225mm dia. Incoming Pipe Invert Level
A2 1.29-375 — 375mm dia. Incoming Pipe Invert Level
X1 1.14-525 — 525mm dia. Outgoing Pipe Invert Level
- Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
- Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.



Legend				
400kV CABLE/SUBMARINE CABLE/OHL	ABANDONED TRANSMISSION CABLE	SUB- 11kV SUBMARINE CABLE	P L.V. OVERHEAD LINE (PVC)	TEMPERATURE SENSING CABLE (DTS)
THROUGH DUCT 400kV CABLE	33kV CABLE	OHL 11kV OVERHEAD LINE	W L.V. OVERHEAD LINE (Wall Mounted)	AERIAL EARTH WIRE (AEW)
AS BUILT 400kV CABLE	THROUGH DUCT 33kV CABLE	11kV STEEL POLE	L.V. STEEL POLE	OVERHEAD LINE FIBRE OPTIC
400kV OVERHEAD LINE TOWER	AS BUILT 33kV CABLE	11kV WOOD POLE	L.V. WOOD POLE	OVERHEAD LINE FIBRE OPTIC
132kV CABLE/SUBMARINE CABLE/OHL	SUB- 33kV SUBMARINE CABLE	POLE MOUNT TRANSFORMER	L.V. PILLAR	SHALLOW COVER INSTALLATION
THROUGH DUCT 132kV CABLE	OHL 33kV OVERHEAD LINE	L.V. CABLE	PILOT CABLE	CLP 400/132/66kV SUBSTATION
AS BUILT 132kV CABLE	33kV STEEL POLE	THROUGH DUCT L.V. CABLE	THROUGH DUCT PILOT CABLE	CLP 11kV SUBSTATION
132kV OVERHEAD LINE TOWER	33kV WOOD POLE	AS BUILT / ABANDONED L.V. CABLE	AS BUILT / ABANDONED PILOT CABLE	400kV CABLE JOINT BAY
132kV TERMINAL OHL POLE	11kV CABLE	L.V. OVERHEAD LINE (1 PHASE)	FIBRE OPTIC	132kV CABLE JOINT BAY
132kV DOUBLE OHL POLE	THROUGH DUCT 11kV CABLE	L.V. OVERHEAD LINE (3 PHASE)	THROUGH DUCT FIBRE OPTIC	DUCT LINE
132kV SINGLE OHL POLE	AS BUILT / ABANDONED 11kV CABLE	L.V. OVERHEAD LINE (ABC)	AS BUILT FIBRE OPTIC	

ALL LOCATIONS, MEASUREMENTS, DIMENSIONS AND DISTANCES ARE FOR CLP POWER INTERNAL USE ONLY. THEY SHOULD NOT BE SCALED AND ASSUMED ACCURATE. CLP POWER ACCEPTS NO RESPONSIBILITY IN THE EVENT OF ANY INACCURACY. EXTREME CARE MUST BE EXERCISED WHEN WORKING IN CLOSE PROXIMITY TO OUR EQUIPMENT. PLEASE CONTACT OUR REGIONAL OFFICE AS SOON AS YOU ARE READY TO COMMENCE WORK.



MAP NO: CLP Facility Records Map

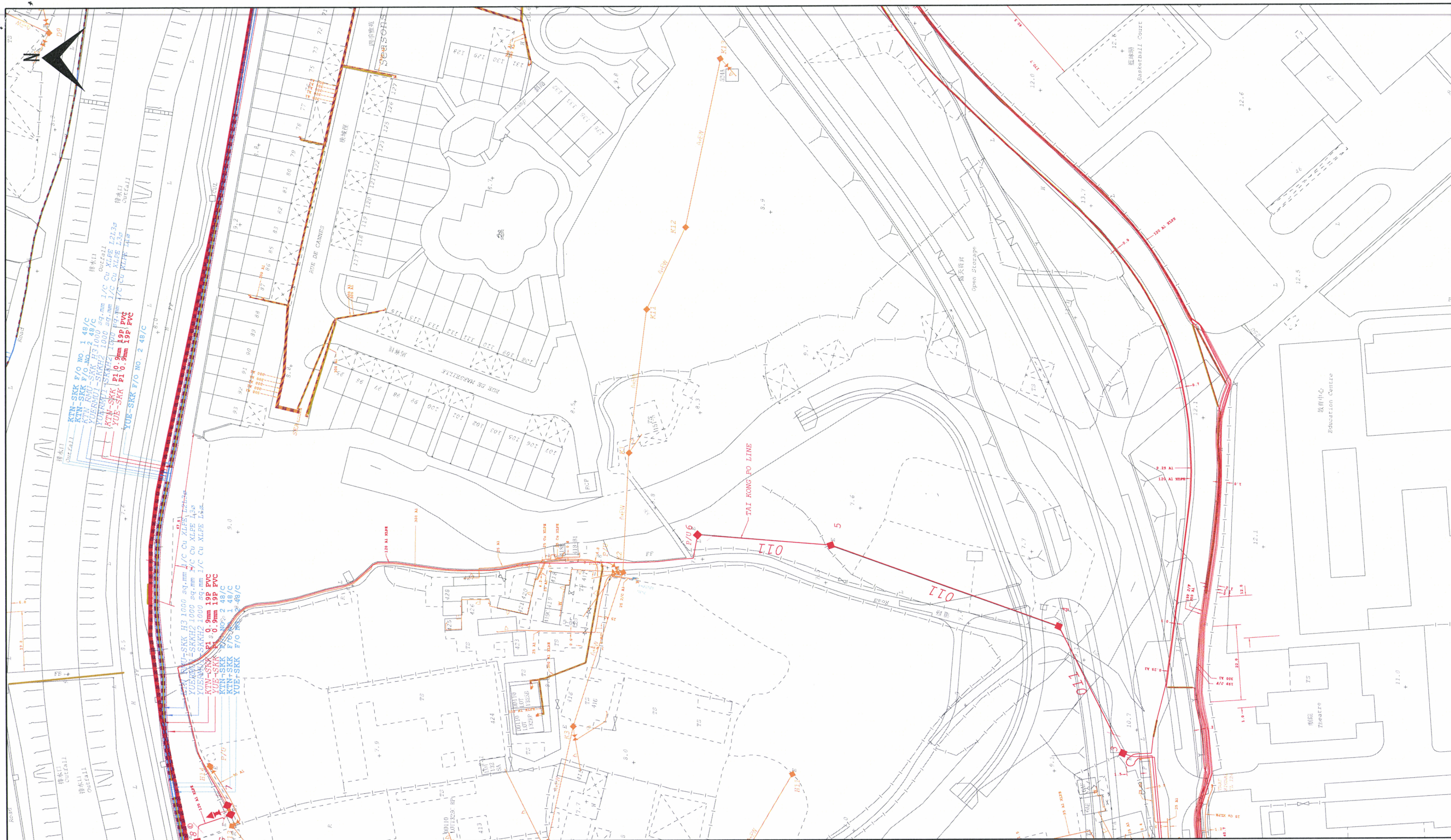
06NE08C

06NE13A

SCALE: 1:1000

PRINTED ON: 27-10-2022

Map data reproduced with permission of the Director of Lands. (C) Hong Kong. Reproduction in any form must be approved by CLP Power. Information Classification: PROPRIETARY



Legend									
	400kV CABLE/SUBMARINE CABLE/OHL		ABANDONED TRANSMISSION CABLE		SUBMARINE 11kV CABLE		L.V. OVERHEAD LINE (PVC)		TEMPERATURE SENSING CABLE (DTS)
	THROUGH DUCT 400kV CABLE		33kV CABLE		11kV OVERHEAD LINE		L.V. OVERHEAD LINE (Wall Mounted)		AERIAL EARTH WIRE (AEV)
	AS BUILT 400kV CABLE		THROUGH DUCT 33kV CABLE		11kV STEEL POLE		L.V. STEEL POLE		OVERHEAD LINE FIBRE OPTIC
	400kV OVERHEAD LINE TOWER		AS BUILT 33kV CABLE		11kV WOOD POLE		L.V. WOOD POLE		OVERHEAD LINE FIBRE OPTIC
	132kV CABLE/SUBMARINE CABLE/OHL		33kV SUBMARINE CABLE		POLE MOUNT TRANSFORMER		L.V. PILLAR		SHALLOW COVER INSTALLATION
	THROUGH DUCT 132kV CABLE		33kV OVERHEAD LINE		L.V. CABLE		PILOT CABLE		CLP 400/132/66kV SUBSTATION
	AS BUILT 132kV CABLE		33kV STEEL POLE		THROUGH DUCT L.V. CABLE		THROUGH DUCT PILOT CABLE		CLP 33kV SUBSTATION
	132kV OVERHEAD LINE TOWER		33kV WOOD POLE		AS BUILT / ABANDONED L.V. CABLE		AS BUILT / ABANDONED PILOT CABLE		CLP 11kV SUBSTATION
	132kV TERMINAL OHL POLE		11kV CABLE		L.V. OVERHEAD LINE (1 PHASE)		FIBRE OPTIC		400kV CABLE JOINT BAY
	132kV DOUBLE OHL POLE		THROUGH DUCT 11kV CABLE		L.V. OVERHEAD LINE (3 PHASE)		THROUGH DUCT FIBRE OPTIC		132kV CABLE JOINT BAY
	132kV SINGLE OHL POLE		AS BUILT / ABANDONED 11kV CABLE		L.V. OVERHEAD LINE (ABC)		AS BUILT FIBRE OPTIC		DUCT LINE

ALL LOCATIONS, MEASUREMENTS, DIMENSIONS AND DISTANCES ARE FOR CLP POWER INTERNAL USE ONLY. THEY SHOULD NOT BE SCALED AND ASSUMED ACCURATE. CLP POWER ACCEPTS NO RESPONSIBILITY IN THE EVENT OF ANY INACCURACY. EXTREME CARE MUST BE EXERCISED WHEN WORKING IN CLOSE PROXIMITY TO OUR EQUIPMENT. PLEASE CONTACT OUR REGIONAL OFFICE AS SOON AS YOU ARE READY TO COMMENCE WORK.



MAP NO: CLP Facility Records Map

06NE08C

06NE13B

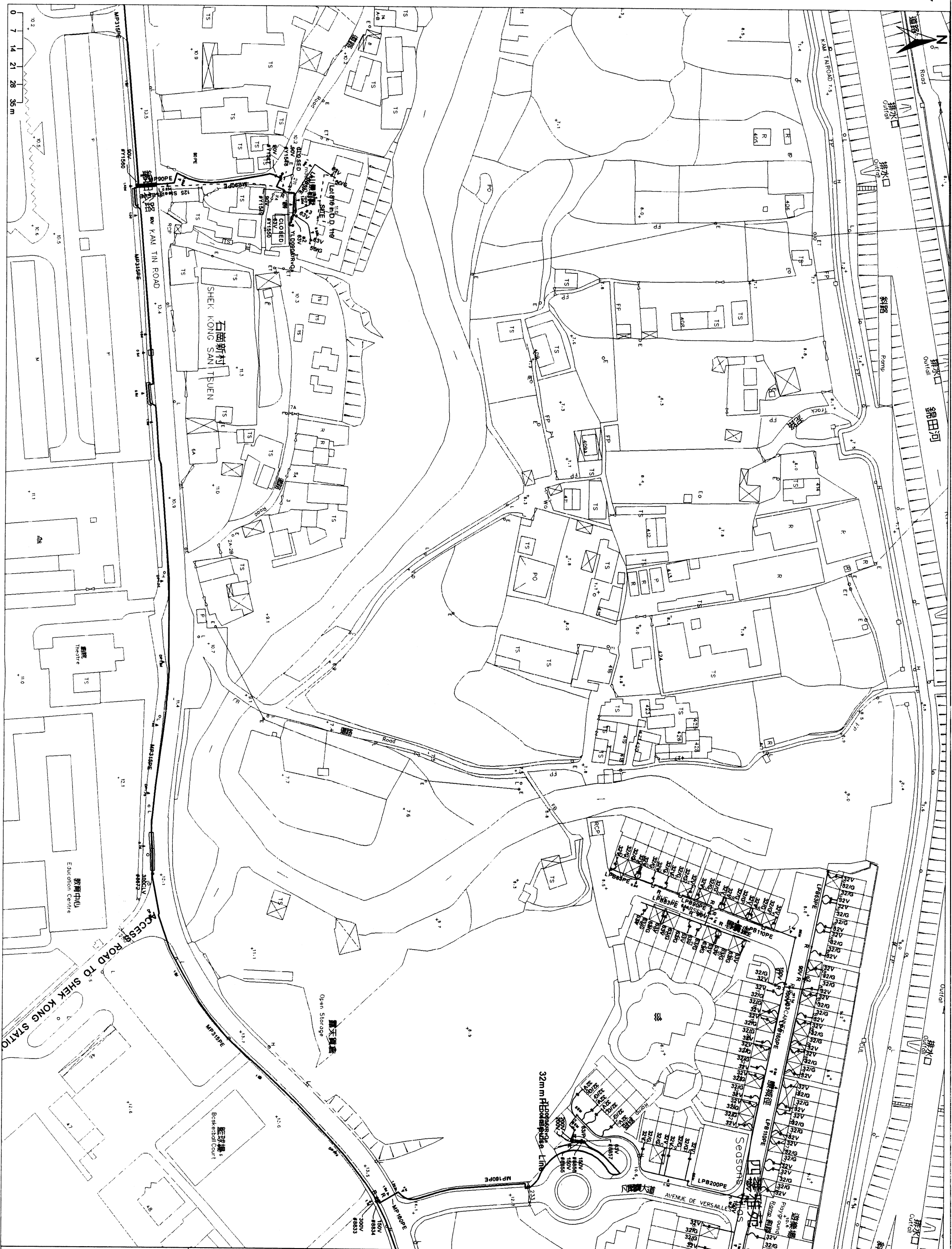
06NE13A

06NE08D

SCALE: 1:1000

PRINTED ON: 27-10-2022

Map data reproduced with permission of the Director of Lands. (C) Hong Kong. Reproduction in any form must be approved by CLP Power. Information Classification: PROPRIETARY



煤氣
Towngas

香港中華煤氣有限公司
The Hong Kong and China Gas Company Limited

輸氣操作部

時間：11:22:29

比例：1 : 1300

圖例：

- LPA 現有低壓 A 管線 (2.0 千帕以下)
- IPB 現有中壓 B 管線 (7.5-240 千帕)
- IPB 現有次高壓 A 管線 (240-400 千帕)
- IPB 現有次高壓 B 管線 (400-700 千帕)
- PE 設有可探測管帶的聚乙烯管
- IPB* 現有次高壓 B 管線 (管以較低壓力運作)
- IPB* 現有次高壓 B 管線 (管以較低壓力運作)
- PE* 設有可探測管帶的聚乙烯管
- RP 鋼管 / 鋼管管線
- RP 鋼管 / 鋼管管線

- 鋼管板
- 冷媒液池
- 無壓管的冷媒液池 / 散熱點
- 閘門
- 球閘井
- 立管井
- RPIT 立管井
- 除腐蝕層厚度大的管線 (米)
- 管線通訊管
- TS: 抽油機 / RS: 抽水機
- RT: 抽油機 / WT: 抽水機
- [注意：鋼管管線埋深，比管線深約 50 厘米]

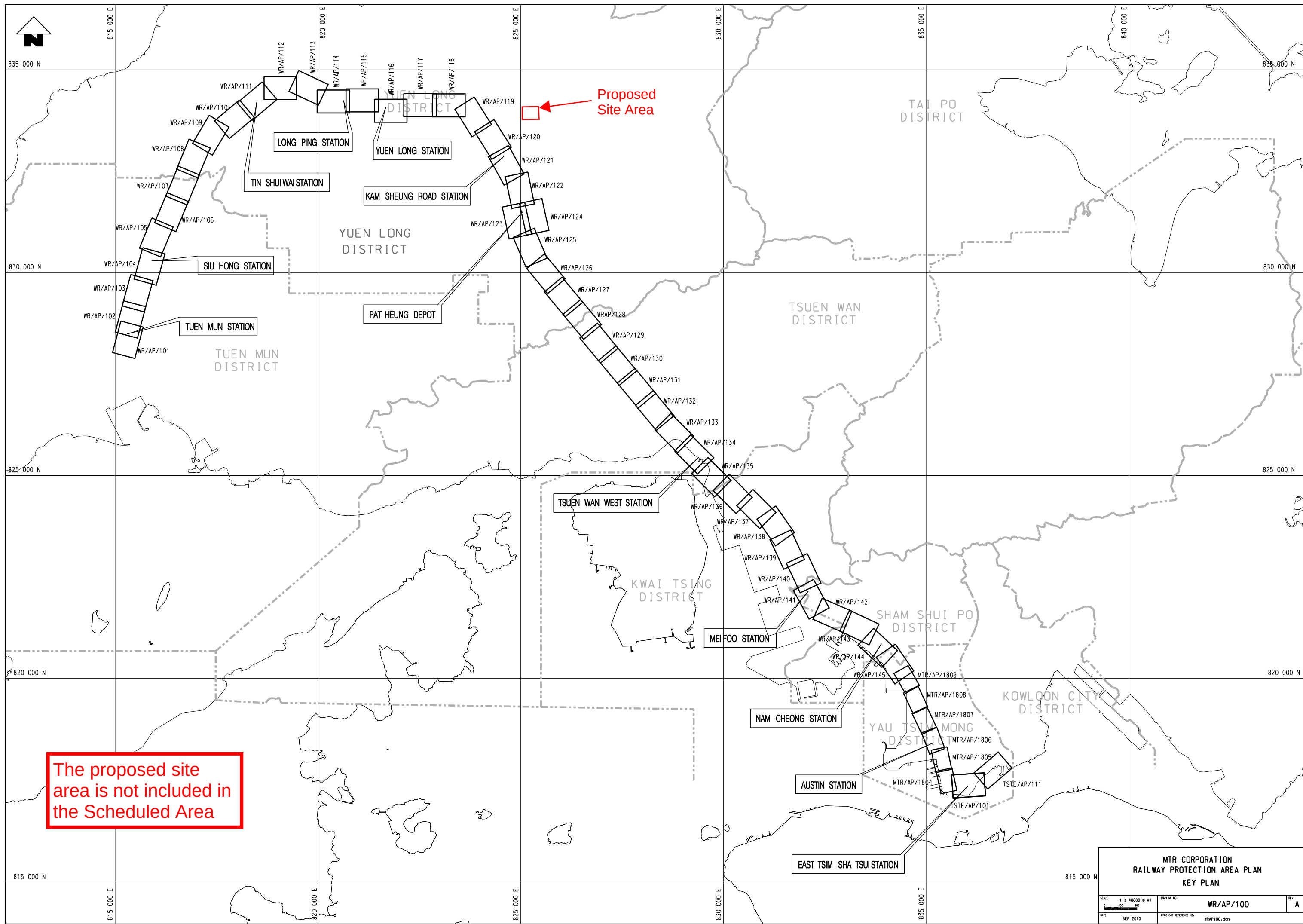
圖則顯示的管道位置只作參考之用。
其實際位置和深度仍須以人手開挖
探孔確定。在煤氣管道設施附近施
工期間，必須要加倍小心。

檢查日期：Nov 2 2022

Appendix G

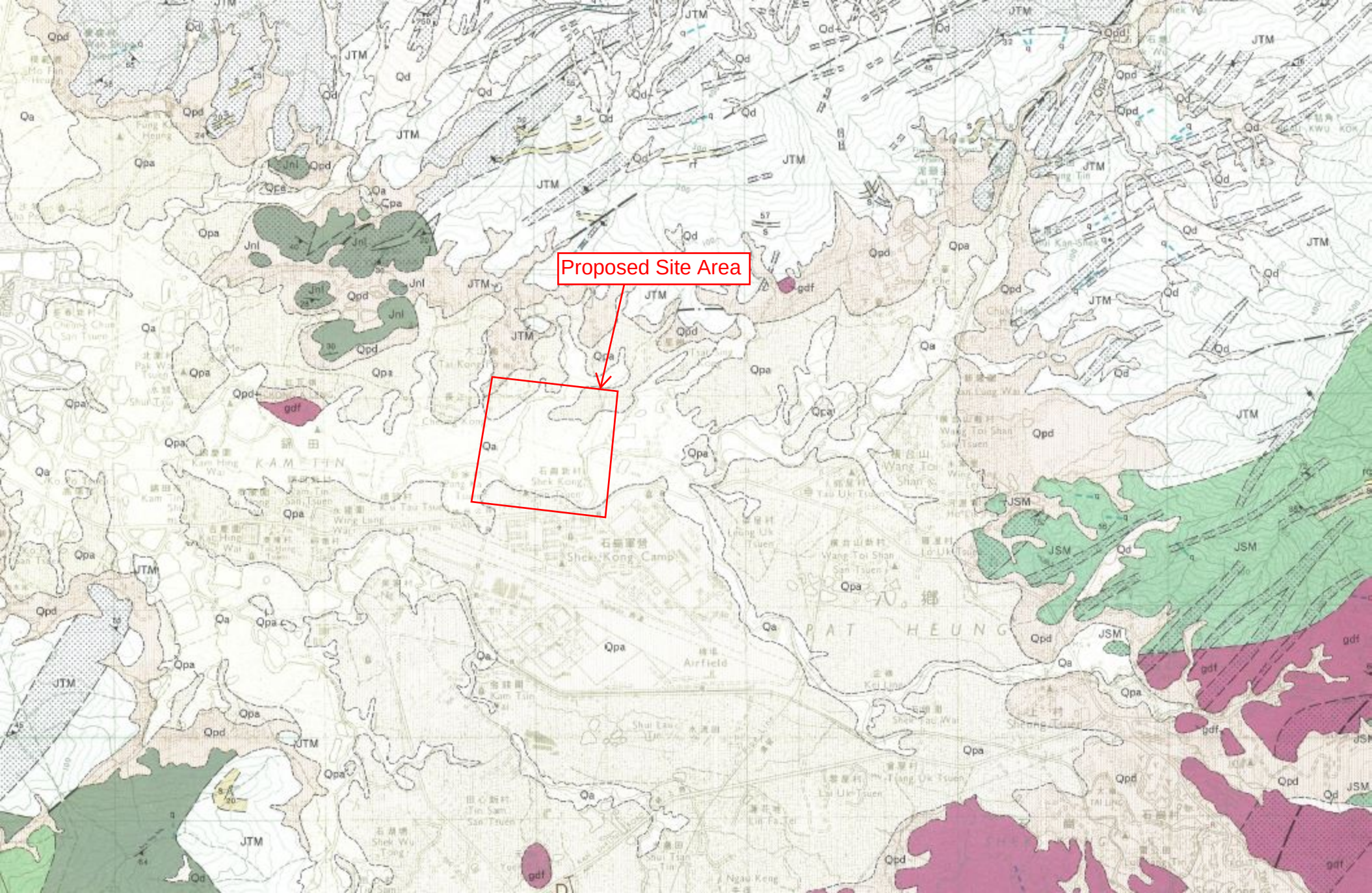
Schedule Area

X:\CADD\Library\MicroStation\workspace\plot\color_300dpi_1080x1080.plt
Default PLOTTER: HP DesignJet 5000 Series
PLOT DATE: 15/11/2010 9:58:03 AM
FILE NAME: x:\cadd\plan\plan\wrp100.dgn



Appendix H

Geological Survey Map



Proposed Site Area

HONG KONG GEOLOGICAL SURVEY

香港地質調查

YUEN LONG 元朗

Sheet 6 編號

SOLID AND SUPERFICIAL GEOLOGY 基岩和表土地質圖

Series HGM20 組別

Scale 1:20 000 比例

SUPERFICIAL DEPOSITS 地表沉積

		GENETIC CLASSIFICATION 成因類型	主要物質成份	PRINCIPAL MATERIALS
第四系 QUATERNARY	全新統 HOLOCENE	Fill 填土	填泥和廢物	Natural earth and waste
		Alluvium 沖積物	分選性良好至中等的粘土 / 粉砂、砂和礫石	Clay/silt, sand and gravel; well-sorted to semi-sorted
		Beach deposits 海灘沉積	砂	Sand
		Raised beach deposits 高位海灘沉積	砂	Sand
	更新-全新統 PLEISTOCENE AND HOLOCENE	Marine sand 海相砂	QHH	主要深灰色海相泥（未分）
			ms	砂、部份粉砂質
		Debris flow deposits 坡積、洪積物	Qd	未分選的砂、礫至漂礫，基質為粘土 / 粉砂
		Talus (rockfall) deposits 岩屑（岩崩）堆積物	Qt	礫石、中礫和漂礫
	更新統 PLEISTOCENE	Terraced alluvium 階地沖積物	Qpa	分選性良好至中等的礫質、砂質粘土 / 粉砂
		Debris flow deposits 坡積、洪積物	Qpd	未分選的礫質、粘土質粉砂 / 砂夾中礫至漂礫
		QCK	紅色、黃色和灰色的粘土，粉砂，砂和礫石（未分）	Undivided; red, yellow and grey clay, silt, sand and gravel

SOLID GEOLOGY 基岩地質

SEDIMENTARY AND VOLCANIC ROCKS 沉積岩和火山岩

		NAMED ROCK DIVISIONS 地層單位名稱		主要岩石類型 / 特徵 PRINCIPAL ROCK TYPES/CHARACTERS			
中生界 MESOZOIC	上侏羅統 UPPER JURASSIC	淺水灣群 REPULSE BAY VOLCANIC GROUP	東部和北部 EAST AND NORTH	Tai Mo Shan Formation, undivided 大帽山組 (未分)	JTM	粗火山灰晶屑凝灰岩 Coarse ash crystal tuff	
				Ap Lei Chau Formation, undivided 鴨脷洲組 (未分)	JAC	細火山灰玻屑凝灰岩 Fine ash vitric tuff	
				Shing Mun Formation 城門組	Undivided 未分	JSM	細粒至粗粒火山灰凝灰岩，凝灰角礫岩和層凝灰岩 Fine ash to coarse ash tuffs, tuff-breccia and tuffite
					Ngau Liu Member 牛寮段	Jnl	晶玻屑凝灰岩 Crystal and vitric tuff
				Shek Lung Kung Member 石龍拱段	Jsl	凝灰角礫岩 Tuff-breccia	
				Yim Tin Tsai Formation, undivided 鹽田仔組 (未分)	JYT	粗火山灰晶屑凝灰岩 Coarse ash crystal tuff	
			西部 WEST	Tuen Mun Formation, 屯門組 (未分)	JTU	安山岩夾凝灰岩和層凝灰岩 Andesite with tuff and tuffite	
					t	未分的凝灰岩和層凝灰岩 Undifferentiated tuff and tuffite	
					bt	含火山塊凝灰岩和層凝灰岩 Block-bearing tuff and tuffite	
					s	砂岩 Sandstone	
					sl	粉砂岩和泥岩 Siltstone and mudstone	
					br	沉積角礫岩 Sedimentary breccia	
古生界 PALAEOZOIC	石炭系 CARBONIFEROUS	新田群 SAN TIN GROUP	Lok Ma 落馬洲組 { Mai Po 米埔段 (未分) Chau Formation Member, undivided Yuen Long Formation, 元朗組 (未分) undivided		Cmp	變質粉砂岩和千枚岩夾變質砂岩 Metasiltstone and phyllite, with metasandstone	
				CYL	大理岩 Marble		

MAJOR INTRUSIVE IGNEOUS ROCKS 主要侵入火成岩

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	中生代 MESOZOIC	侏羅-白堊紀 JURASSIC-CRETACEOUS	{	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

METAMORPHIC ROCKS 變質岩

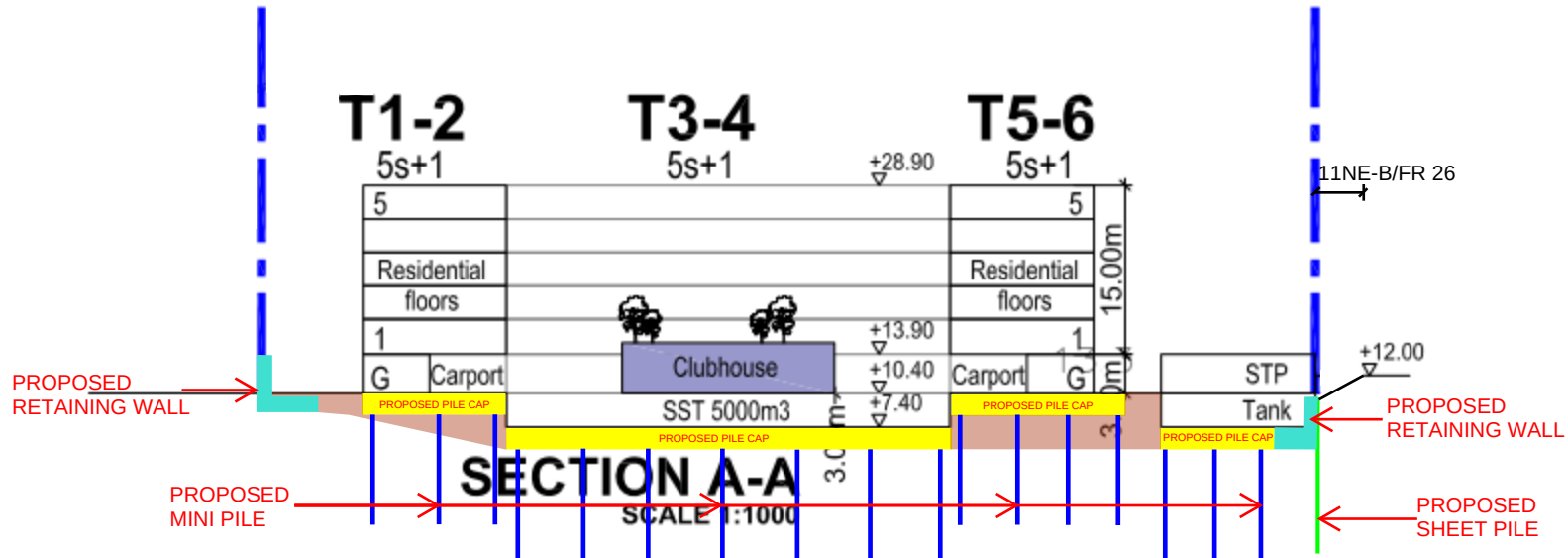
		{		糜稜岩	Mylonite
				片岩	Schist
				變質岩石	Metamorphosed

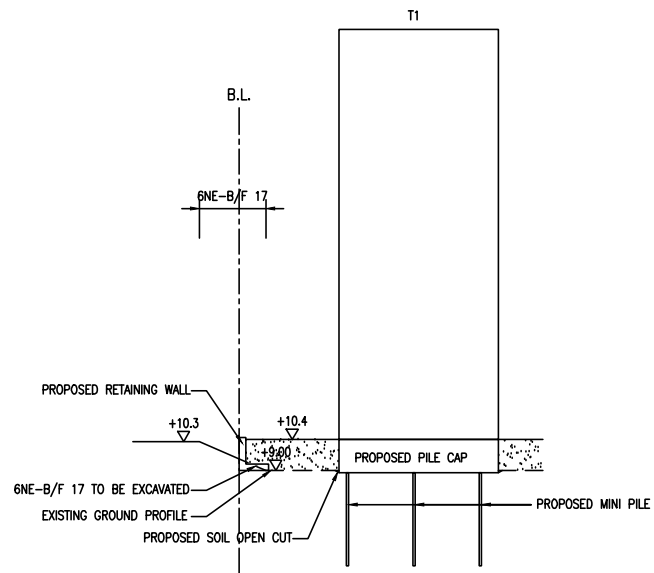
Appendix I

Schedule of Proposed Foundation & Site Formation Works

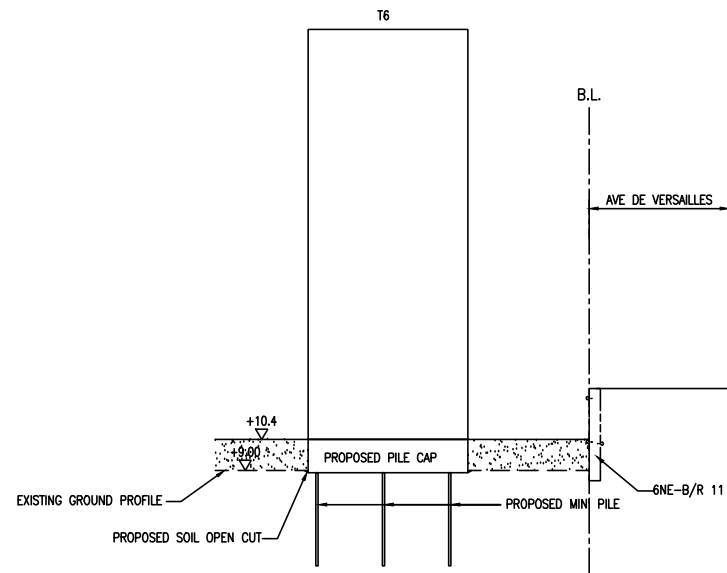


Figure 1





SECTION B-B



SECTION C-C

 PROPOSED BACKFILL