

Your Ref.: A/NE-KLH/657

Our Ref.: P25001/TL25275

20 August 2025

The Secretary
Town Planning Board
15/F., North Point Government Offices
333 Java Road, North Point, Hong Kong

By Post and E-mail
tpbpd@pland.gov.hk

Dear Sir,

Submission of Further Information (FI)

**Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) with
Ancillary Facilities and Associated Filling of Land for a Period of 5 Years
Various Lots in D.D. 16, Lam Tsuen, Tai Po, New Territories
(Application No.: A/NE-KLH/657)**

We write to submit FI in response to comments from the Geotechnical Engineering Office, Civil Engineering and Development Department for the captioned application.

Yours faithfully,
For and on behalf of
Goldrich Planners & Surveyors Ltd.



Francis Lau

Encl.

c.c.

DPO/STN, PlanD

Further Information for Planning Application No. A/NE-KLH/657**Response-to-Comments****Comments from the Geotechnical Engineering Office, CEDD**

Contact Person: Mr. S.C. MOK

I.	Comments	Responses
1.	Registered Slope No. 7NW-A/C93 which is steeper than 30 degrees is found within 6m of the site. Therefore, if the applicant wishes to proceed with the proposed developments, he/she is required to submit a Geotechnical Planning Review Report (GPRR) in support of this planning application.	The GPRR is enclosed in Appendix III .

- END -

**Geotechnical Planning Review Report
for
Proposed Temporary Place of Recreation, Sports or
Culture (Hobby Farm) with
Ancillary Facilities and Associated Filling of Land
for a Period of 5 Years
at Lots 86, 90, 91(Part), 92(Part), 103(Part),
147(Part), 148 S.A(Part), 148 S.B(Part),
149(Part), 150 S.A, 151 S.A(Part), 153(Part),
572(Part) and 576(Part) in D.D.16,
Lam Tsuen, Tai Po, New Territories**

August 2025

Philip So & Associates Consulting Civil & Geotechnical Engineers Ltd.

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1. INTRODUCTION

Philip So & Associates Ltd. was appointed to carry out Geotechnical Planning Review Report (GPRR) for the application for proposed temporary place of recreation, sports or culture (hobby farm) with ancillary facilities and associated filling of land for a period of 5 years at Lots 86, 90, 91(Part), 92(Part), 103(Part), 147(Part), 148 S.A(Part), 148 S.B(Part), 149(Part), 150 S.A, 151 S.A(Part), 153(Part), 572(Part) and 576(Part) in D.D.16 at Lam Tsuen, Tai Po, New Territories.

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

2. THE SITE AND NEARBY MAN-MADE SLOPE FEATURES

The site is at a relatively flat ground at Lam Tsuen, Tai Po. Site photos taken in June 2025 are presented in Appendix A (see Photos A to T). General view of the Site and the proposed structure is shown on Photo A, B, C, D and E. The location plan and the aerial view of the Site is presented in Figures 1 and 2, respectively.

According to the available SIMAR reports retrieved from Lands Department and SIS records obtained from Geotechnical Engineering Office (GEO), there are 5 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
7NW-A/C93 (Photo F)	1	DD16 Lot572
7NW-A/C92 (Photo G)	1	Lands Department
7NW-A/CR95 (Photo H)	1	DD16 LOT124
	2	DD16 LOT572
7NW-A/C96 (Photo I)	1	DD16 Lot572
7NW-A/R14 (Photo J)	1	DD16 Lot572

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

3. DESK STUDY

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

3.1 Geological Maps

The geology of the Site is shown on the Hong Kong Geological Survey (HKGS) Map Sheet 7 (Sha Tin), 2nd edition, 1:20,000-scale HGM20 series. The local geology of the Site is presented in Figure 4 and described below.

3.1.1 Solid Geology

The 1:20,000 scale geological maps indicated the Site is underlain by lapilli lithic-bearing coarse ash crystal Tuff (Jts_cat) of the Shing Mun Formation under the Tsuen Wan Volcanic Group in Middle Jurassic.

3.1.2 Superficial Geology

Pleistocene Alluvium (Qca) and Colluvium (Qcd) of Chek Lap Kok Formation have been recorded within and in the vicinity of Site.

3.1.3 Structural Geology

Two faults have been recorded within and in the vicinity of the Site. A NE-SW trending fault has been recorded across the Site and another NW-SE trending fault has been recorded 55m to the northeast of the Site.

3.2 Enhanced Natural Terrain Landslide Inventory

In 1995, the GEO compiled the Natural Terrain Landslide Inventory (NTLI) from an interpretation of high-altitude (8,000ft and above) aerial photographs dated from 1945 to 1994 (King, 1999). In 2007, the GEO produced an Enhanced Natural Terrain Landslide Inventory (ENTLI) using low-altitude (8,000ft and below) aerial photographs to update the NTLI.

In accordance with GEO Report No. 138 (GEO, 2016), landslides are classed as either “Relict” or “Recent”, depending on their appearance in aerial photographs. “Relict” landslides are defined as those where the main scarp is well-defined but vegetation has re-established on the scar on the earliest set of available aerial photographs. “Recent” landslides are defined as having occurred within the timespan of the aerial photograph coverage. These are typically identified as having a light tone on the aerial photographs and are bare of vegetation.

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

3.3 Historical Landslide Catchment (HLC) Inventory

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

3.4 Reported Landslide Incidents

No landslide incident record has been recorded within the Site. However, one minor landslide incident has been reported at about 64m to the west of the Site. It involved a minor washout of about 3.0m³ from the upper portion of the registered man-made cut-slope.

GCO/GEO Incident No.	Report Date	Location of Failure	Approx. Failure Volume (m ³)	Possible Cause of Failure
2008/07/0704 (about 64m to the west of the Site)	2008/07/10	7NW-A/C97	3.0	Washout

The location of the landslide incident is presented in Figure 5.

3.5 Relevant Previous Ground Investigation Works

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

GIU Report No.	GI Station Nos:	Report Title	GI Stations related to Feature No.
35224	DH/08/01, SS/08/01, CH/08/1, TP/08/1, TP/08/2	House No.16, Ngau Kwu Leng New Village, Ngau Kwa Leng, Tai Po, N.T. Feature No. 7NW-A/C92	7NW-A/C92

The details of previous ground investigation logs are presented in Appendix D and the locations of the previous GI is shown in Figure 6.

3.6 DH Orders

DH Order relevant to the man-made features in the vicinity of the Site are summarized below:

Feature No.	Case Ref.	Issue Date	DH Order No.
7NW-A/CR95	ME0924	06/01/2023	DH0001/NT/23/C
	ME0924	03/01/2025	DH0001/NT/25/C
	ME0924	12/04/2018	DH0019/NT/18/C
	ME0925	06/01/2023	DH0002/NT/23/C
	ME0925	03/01/2025	DH0002/NT/25/C
	ME0925	12/04/2018	DH0020/NT/18/C

3.7 Stage 2 Studies

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

Stage 2 Report No.	Feature No.	Prepared in	Result
S2R059/2016	7NW-A/CR95	September 2016	DH Order

3.8 Stage 3 Studies

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

Stage 3 Report No.	Feature No.	Slope Upgrading Works	Checking Certificate No	Maintenance Manual
S3R094/2002	7NW-A/C92	Skin wall and soil nails	GEO/LPM012/2003	MM 018/2003

4. IMPACTS OF PROPOSED WORKS ON EXISTING SLOPES/RETAINING WALLS & NATURAL HILLSIDE

4.1 Feature No. 7NW-A/C93

The proposed development has impact only on a small portion of the registered man-made cut slope Feature no. 7NW-A/C93, which is located at the south-western end of the Site adjacent to the Site boundary. According to the SIS record, the feature is about 40m long and 4.6m high with slope gradient ranging at about 61° to the horizontal.

Small portion of Feature No. 7NW-A/C93 along the south-western boundary of the Site may be modified for the proposed development, hence, the feature will be affected or being affected by the proposed development. Further detailed of the slope stability assessment shall be covered in the next stage of the project, i.e. the geotechnical assessment report.

4.2 Existing Features at Site

10 unregistered small walls and cut slopes exist at the proposed Site location and in the vicinity of the Site (Photo K to Photo T). The details of these unregistered features are summarized below and the approximate locations of these features are shown in Figure 3.

Unregistered Feature No.	Type	Length (m)	Height (m)	Slope Gradient (°)	Remark from Site Observations
A (Photo K)	Rubble wall	27	1.55	85	No sign of distress
B (Photo L)	Rubble wall	21	0.65	90	Cracks and losing mortar
C (Photo M)	Rubble wall	26	1.10	90	No sign of distress
D (Photo N)	Soil cut slope	20	2.80	75	Bared surface
E (Photo O)	Rubble wall	29	2.10	80	Minor collapse of rubble wall

Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years at Lots 86, 90, 91(Part), 92(Part), 103(Part), 147(Part), 148 S.A(Part), 148 S.B(Part), 149(Part), 150 S.A, 151 S.A(Part), 153(Part), 572(Part) and 576(Part) in D.D.16, Lam Tsuen, Tai Po, New Territories

Geotechnical Planning Review Report

Revision 0

F (Photo P)	Masonry wall	35	2.20	85	No sign of distress
G (Photo Q)	Rubble and masonry wall	76	1.15	90	No sign of distress
H (Photo R)	Rubble wall	31	1.40	85	No sign of distress
I (Photo S)	Masonry wall	47	2.20	80	No sign of distress
J (Photo T)	Rubble wall	22	1.95	90	Cracks and losing mortar

These unregistered features A to J will be retained and these features may affect or being affected due to the proposed development. Given the overall individual height of the these features are less than 3.0m, the impact to the proposed development will be small, however, further detailed of the slope stability assessment with respect to these features shall be covered in the next stage of the project, i.e. the geotechnical assessment report.

5. CONCLUSION

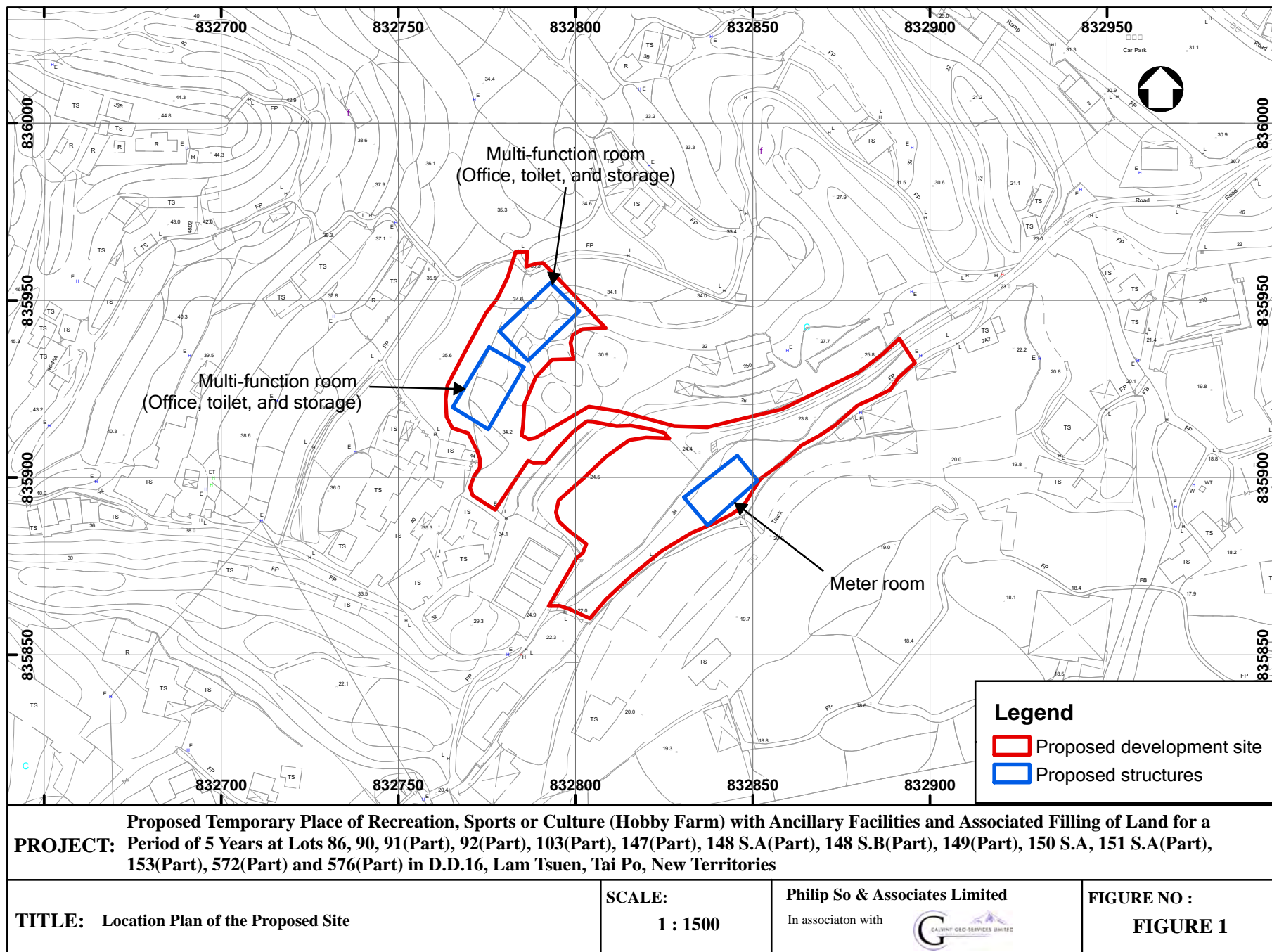
Based on the above discussion, it can be concluded that the proposed development is considered to be feasible from geotechnical point of view. The construction is unlikely posting particular problems to the surrounding area under careful planning, proper execution and vigilant supervision.

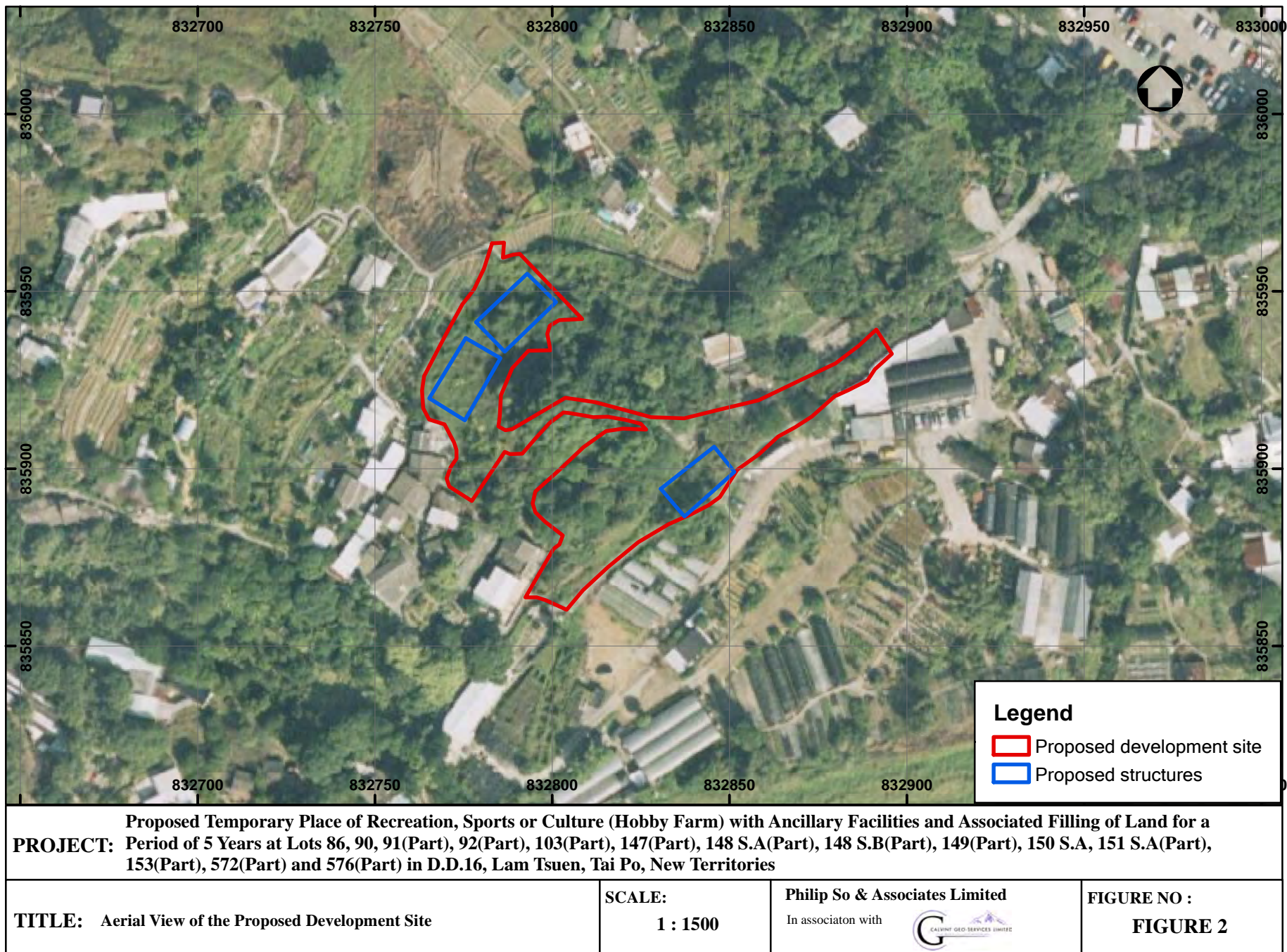
It is essential to search and review the background information of existing building, geotechnical features and underground services within and in the vicinity of the site. Site investigation is proposed to reveal/confirm the subsoils and the ground regime within and in the vicinity of the site as well as to determine the engineering properties of subsoils and rock as well as the groundwater level. 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.

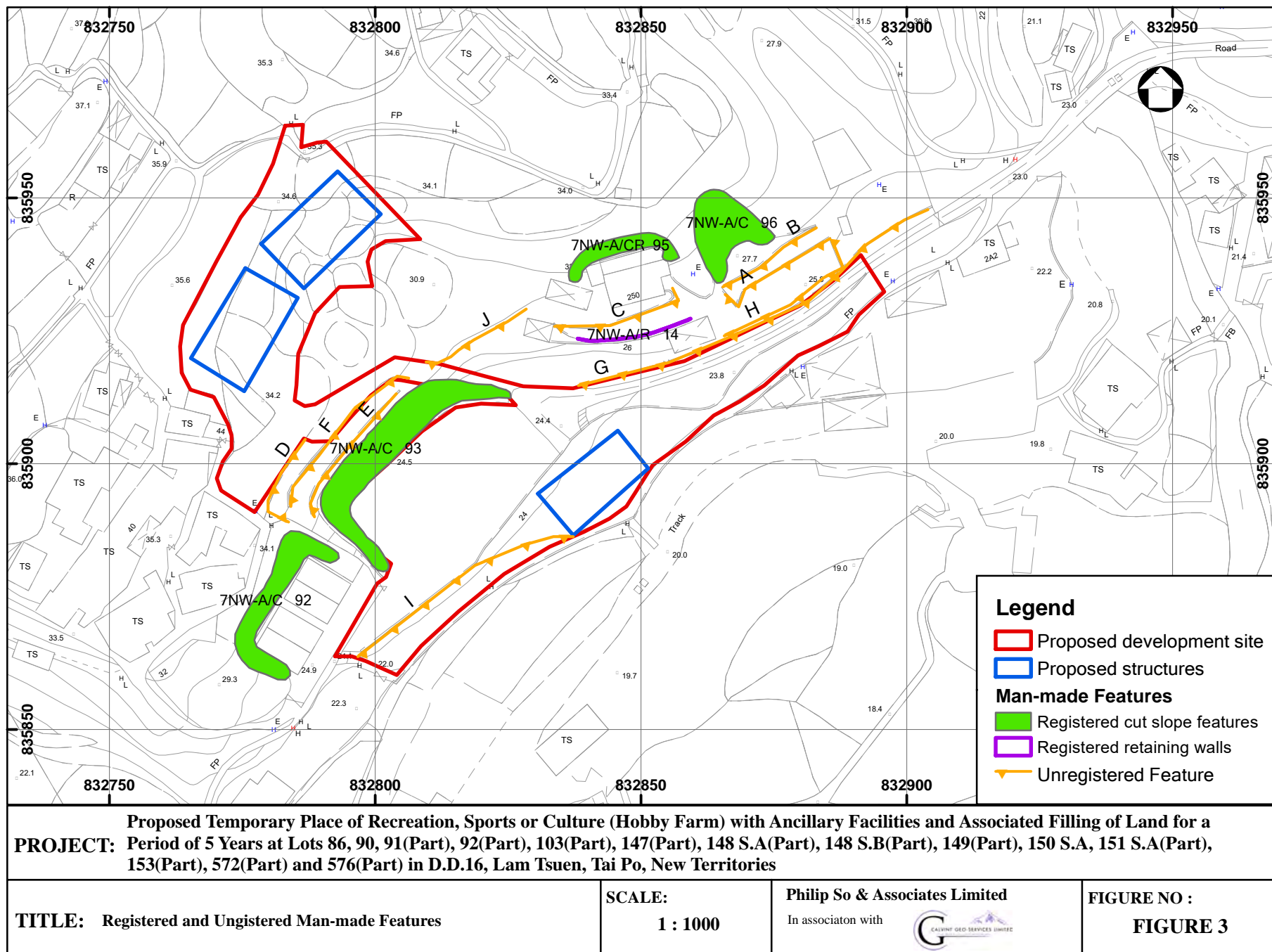
For safety and cost effective, the foundation design and excavation planning as well as the design of geotechnical structure should be based on geological horizons inferred from the ground investigation results, groundwater table interpreted from the piezometer/standpipe monitoring records and geotechnical parameters determined and adopted by field and laboratory testing.

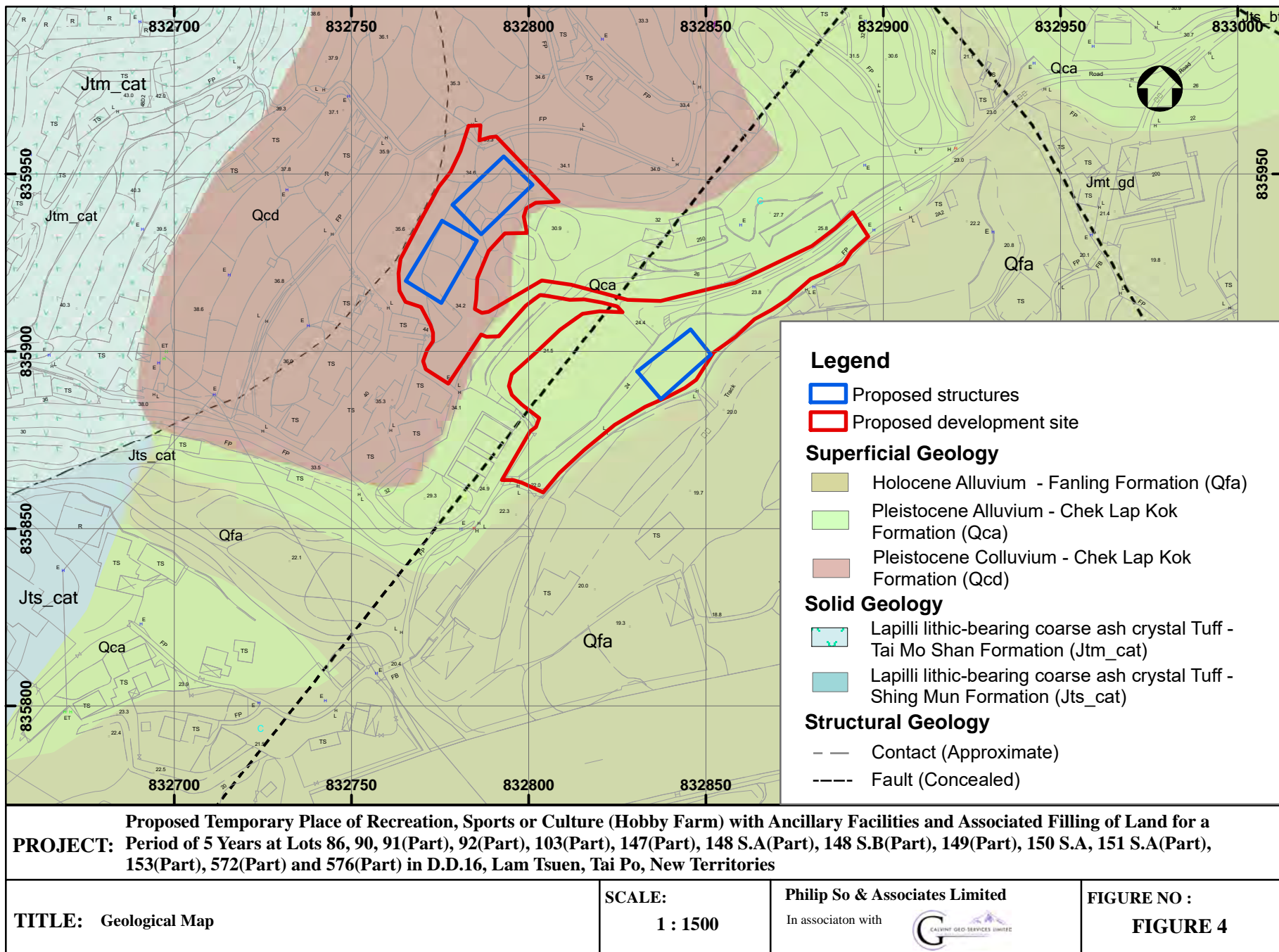
A comprehensive precautionary monitoring program including settlement markers, tiling, vibration check points as well as groundwater observation wells shall be implemented to ensure the foundation of existing buildings and substructure construction being carried out safety and soundly.

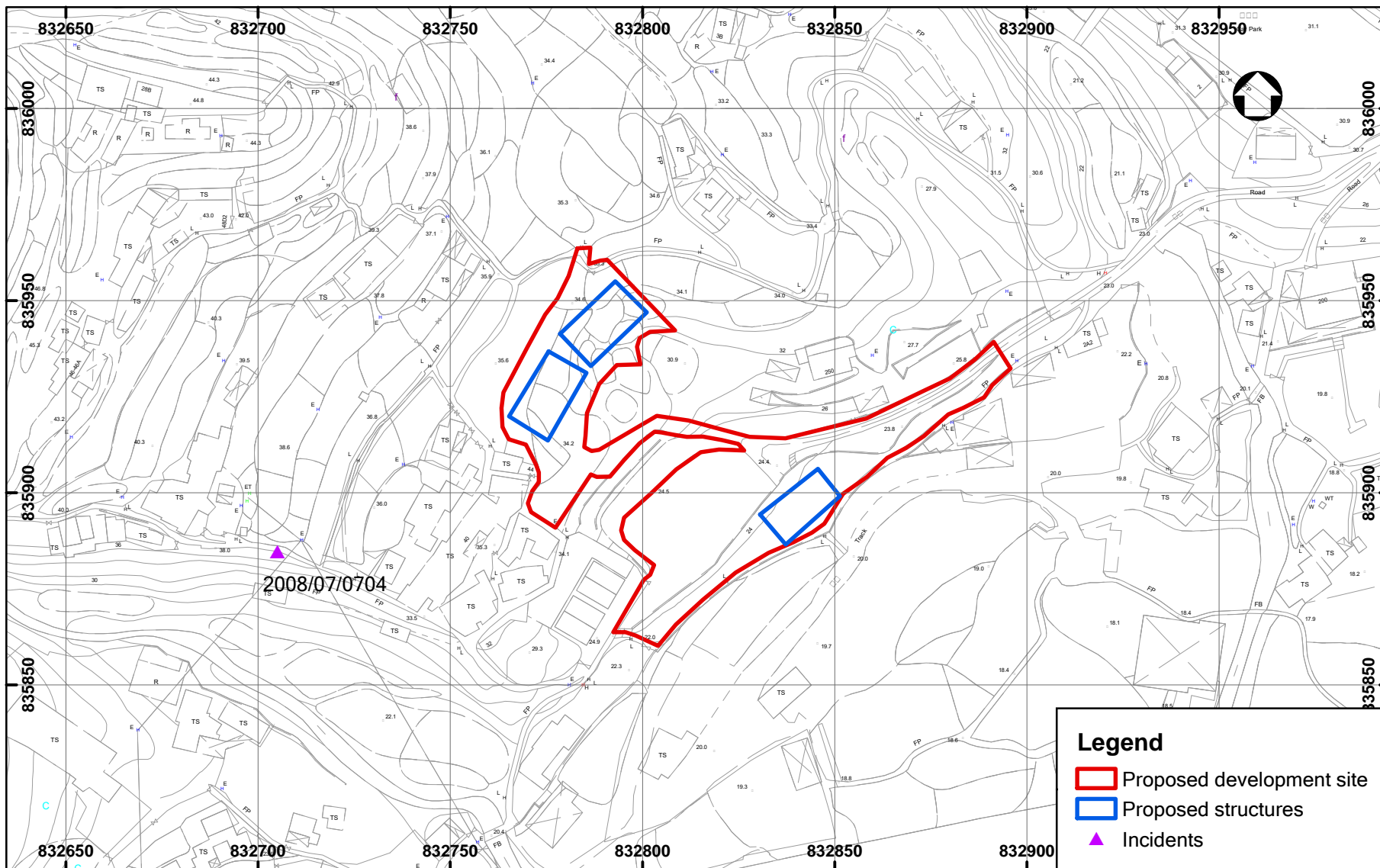
FIGURES











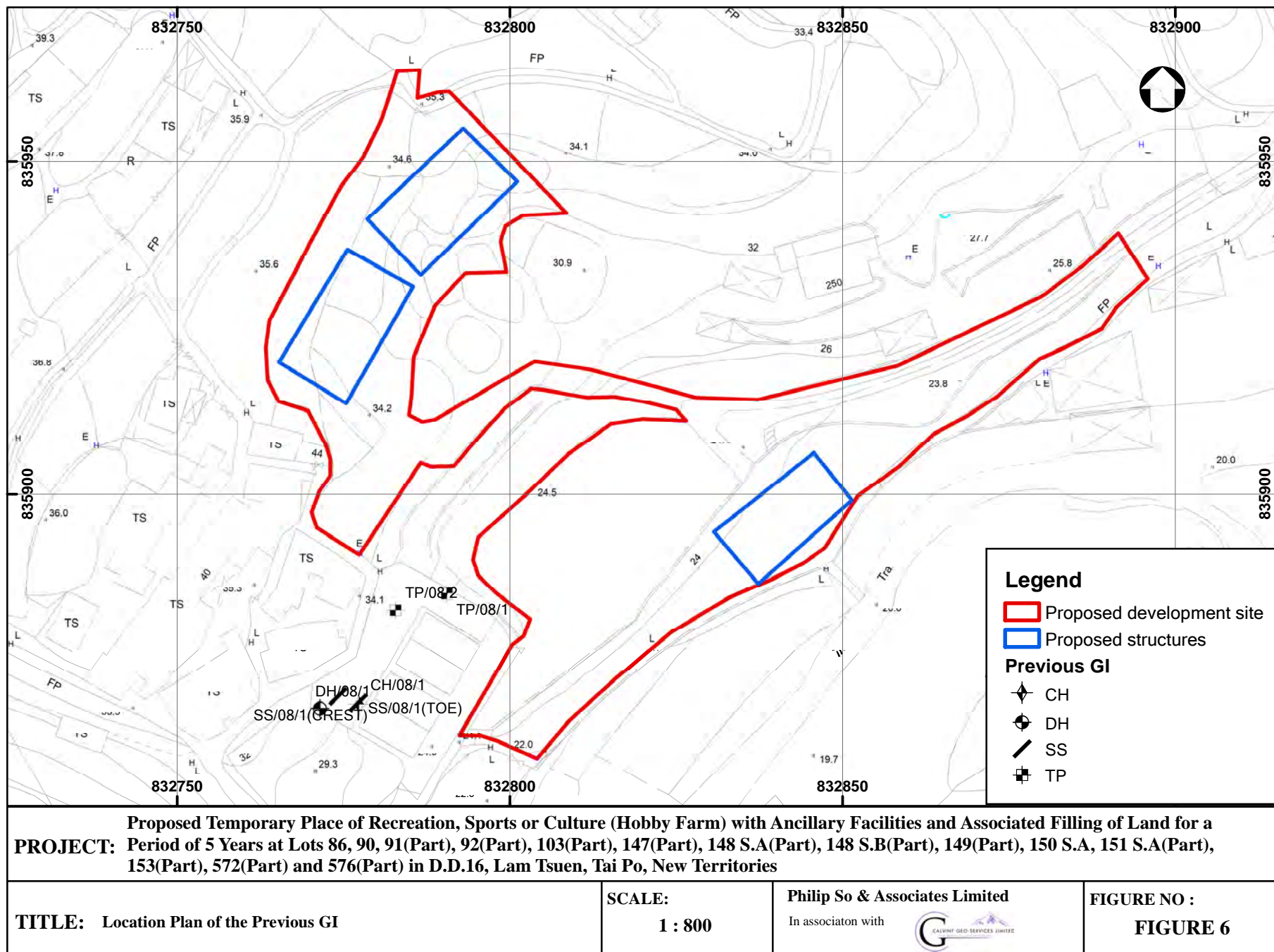
PROJECT: Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years at Lots 86, 90, 91(Part), 92(Part), 103(Part), 147(Part), 148 S.A(Part), 148 S.B(Part), 149(Part), 150 S.A, 151 S.A(Part), 153(Part), 572(Part) and 576(Part) in D.D.16, Lam Tsuen, Tai Po, New Territories

TITLE: Past Instability Records

SCALE:
1 : 1500

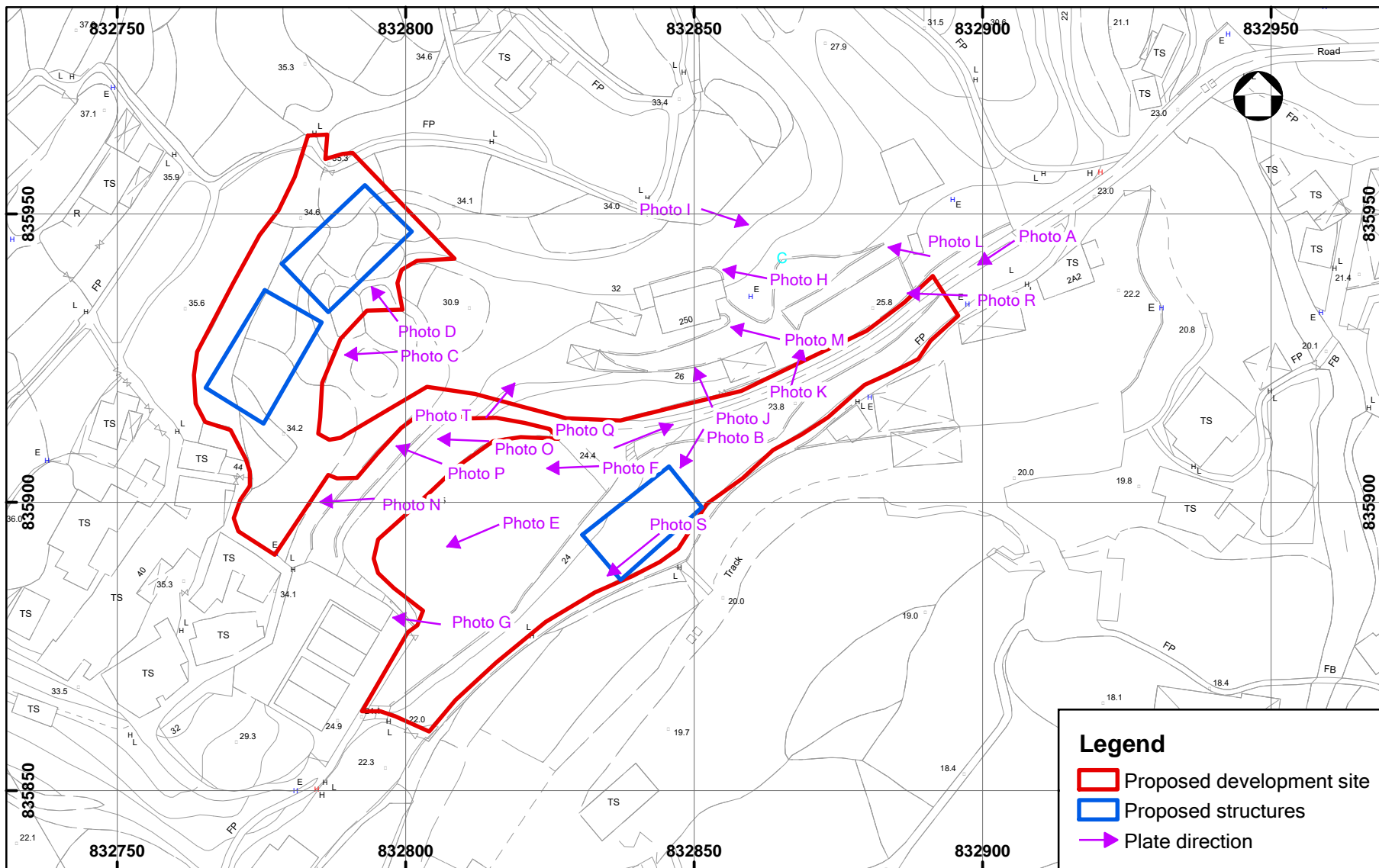
Philip So & Associates Limited
In associaton with


FIGURE NO :
FIGURE 5



Appendix A

Photographs



PROJECT: Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years at Lots 86, 90, 91(Part), 92(Part), 103(Part), 147(Part), 148 S.A(Part), 148 S.B(Part), 149(Part), 150 S.A, 151 S.A(Part), 153(Part), 572(Part) and 576(Part) in D.D.16, Lam Tsuen, Tai Po, New Territories

TITLE: Plate Direction

SCALE:
1 : 1000

Philip So & Associates Limited
In associaton with


FIGURE NO :
FIGURE A1



Photo A – General View of the Proposed Development Site

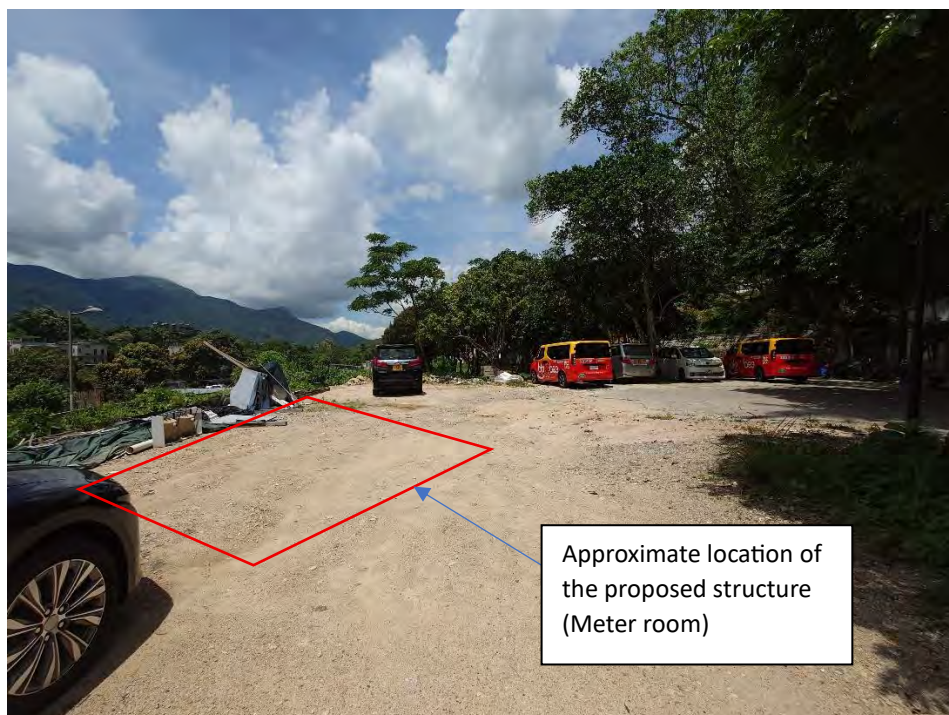


Photo B – General View of the Proposed Development Site & Structure

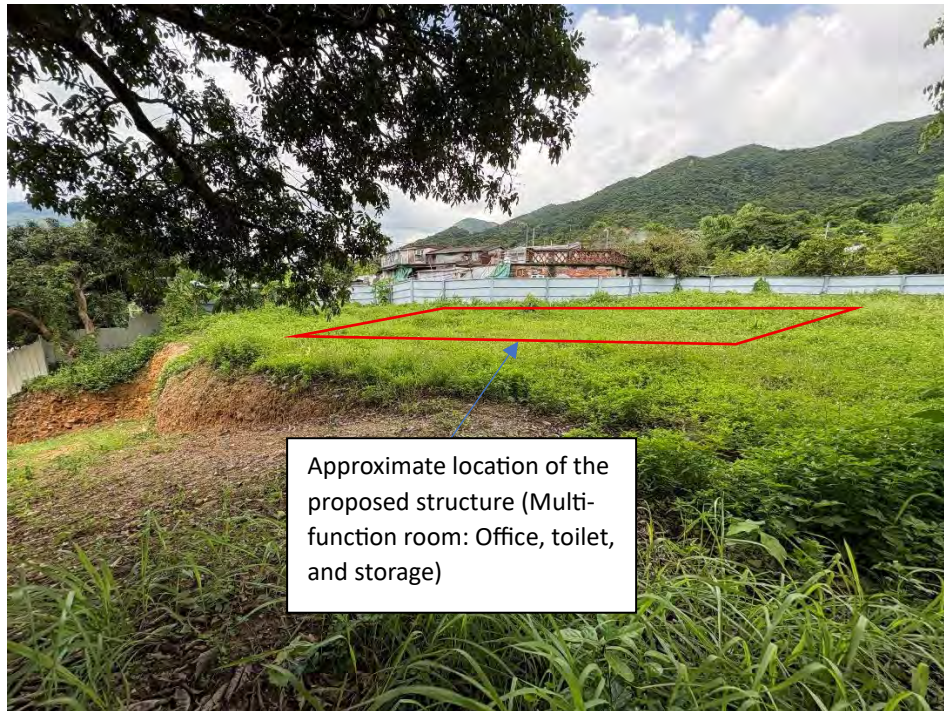


Photo C – General View of the Proposed Development Site & Structure

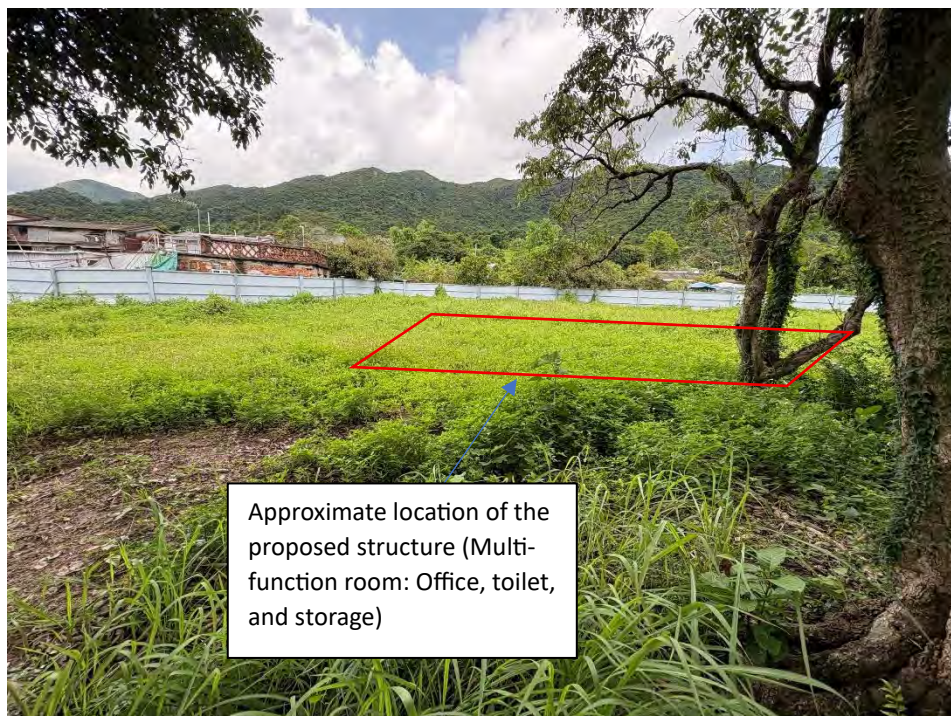


Photo D – General View of the Proposed Development Site & Structure



Photo E – General View of the Proposed Development Site



Photo F – General View of the Feature No. 7NW-A/C93



Photo G – General View of the Feature No. 7NW-A/C92



Photo H – General View of the Feature No. 7NW-A/CR95



Photo I – General View of the Feature No. 7NW-A/C96



Photo J – General View of the Feature No. 7NW-A/R14



Photo K – General View of the Unregistered Feature A



Photo L – General View of the Unregistered Feature B



Photo M – General View of the Unregistered Feature C



Photo N – General View of the Unregistered Feature D



Photo O – General View of the Unregistered Feature E



Photo P – General View of the Unregistered Feature F



Height: 1.15m
Slope Angle: 90°

Photo Q – General View of the Unregistered Feature G



Height: 1.40m
Slope Angle: 85°

Photo R – General View of the Unregistered Feature H



Height: 2.20m
Slope Angle: 80°

Photo S – General View of the Unregistered Feature I



Height: 1.95m
Slope Angle: 90°

Photo T – General View of the Unregistered Feature J

Appendix B

SIMAR Record

Slope Maintenance Responsibility Report

(7NW-A/C92)



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

List of Slope Maintenance Responsibility Area(s)

1	7NW-A/C92	Sub-Division		Not Applicable
	Location	ON GL ADJOINING DD16 LOTS89A, 567 & 580		
	Responsible Lot/Party	Lands Department	Maintenance Agent	Lands Department
	Remarks	1. Slope information being reviewed. 2. For enquiries about the maintenance of this slope / sub-division of the slope, please contact the Maintenance Agent directly.		

- 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: 7NW-A/C92

Location Plan



Legend

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



ESTATE MANAGEMENT SECTION
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Search Criteria: 7NW-A/C92

Slope Maintenance Responsibility Report

(7NW-A/C93)



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

List of Slope Maintenance Responsibility Area(s)

1	7NW-A/C93		Sub-Division	Not Applicable
	Location	WITHIN DD16 LOT572 & ADJOINING GL		
	Responsible Lot/Party	DD16 Lot572	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

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Search Criteria: 7NW-A/C93

Location Plan



Legend

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- - - - - 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: 7NW-A/C93

Slope Maintenance Responsibility Report

(7NW-A/C96)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	7NW-A/C96		Sub-Division	Not Applicable
	Location	WITHIN DD16 LOT572 NEAR SPOT LEVEL 27.7		
	Responsible Lot/Party	DD16 Lot572	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

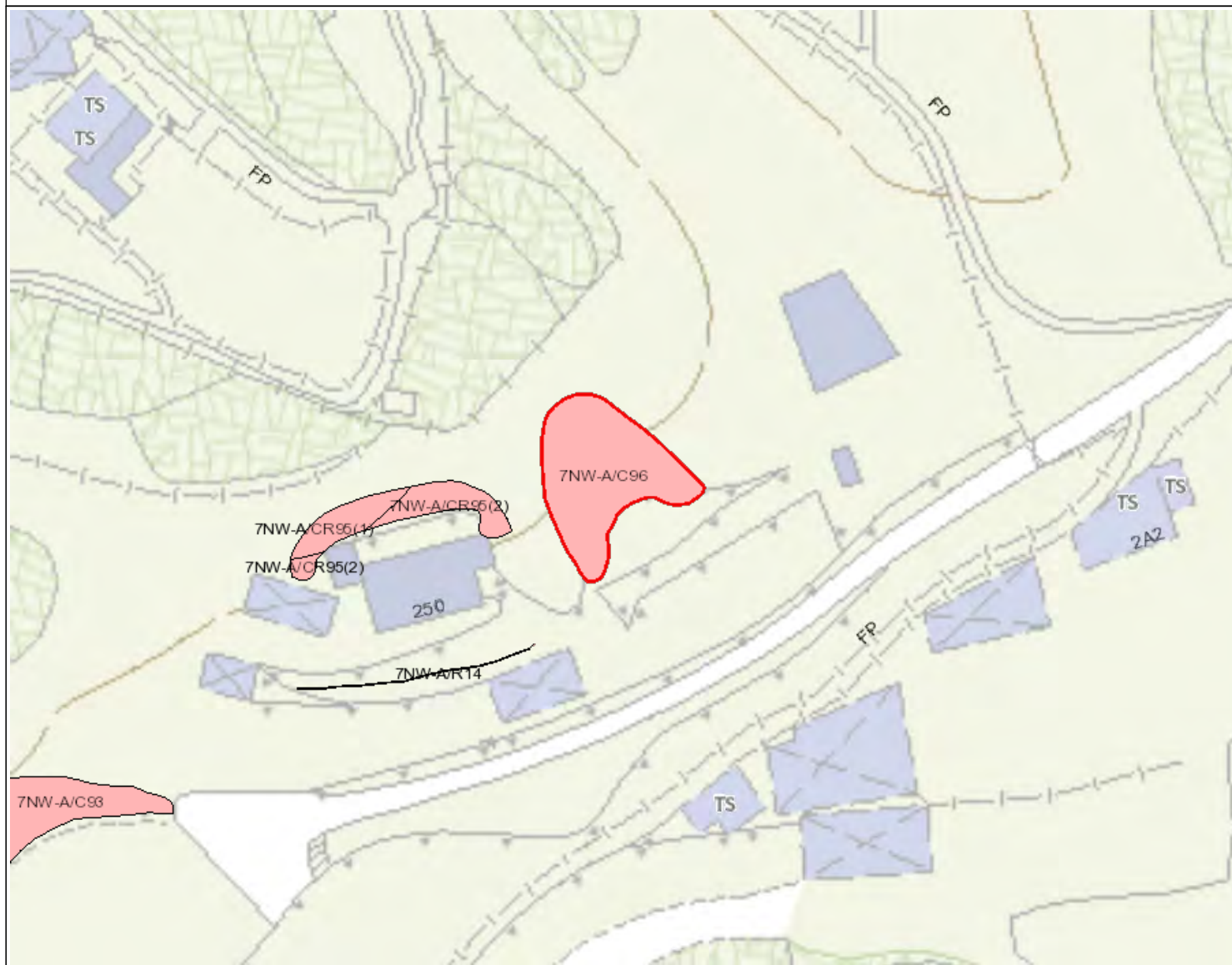
Notes:

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Search Criteria: 7NW-A/C96

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: 7NW-A/C96

Slope Maintenance Responsibility Report

(7NW-A/CR95)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	7NW-A/CR95		Sub-Division	1
	Location	Partly within DD16 Lot 124 and partly within DD16 Lot 572		
	Responsible Lot/Party	DD16 LOT124	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
2	7NW-A/CR95		Sub-Division	2
	Location	Partly within DD16 Lot 124 and partly within DD16 Lot 572		
	Responsible Lot/Party	DD16 LOT572	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

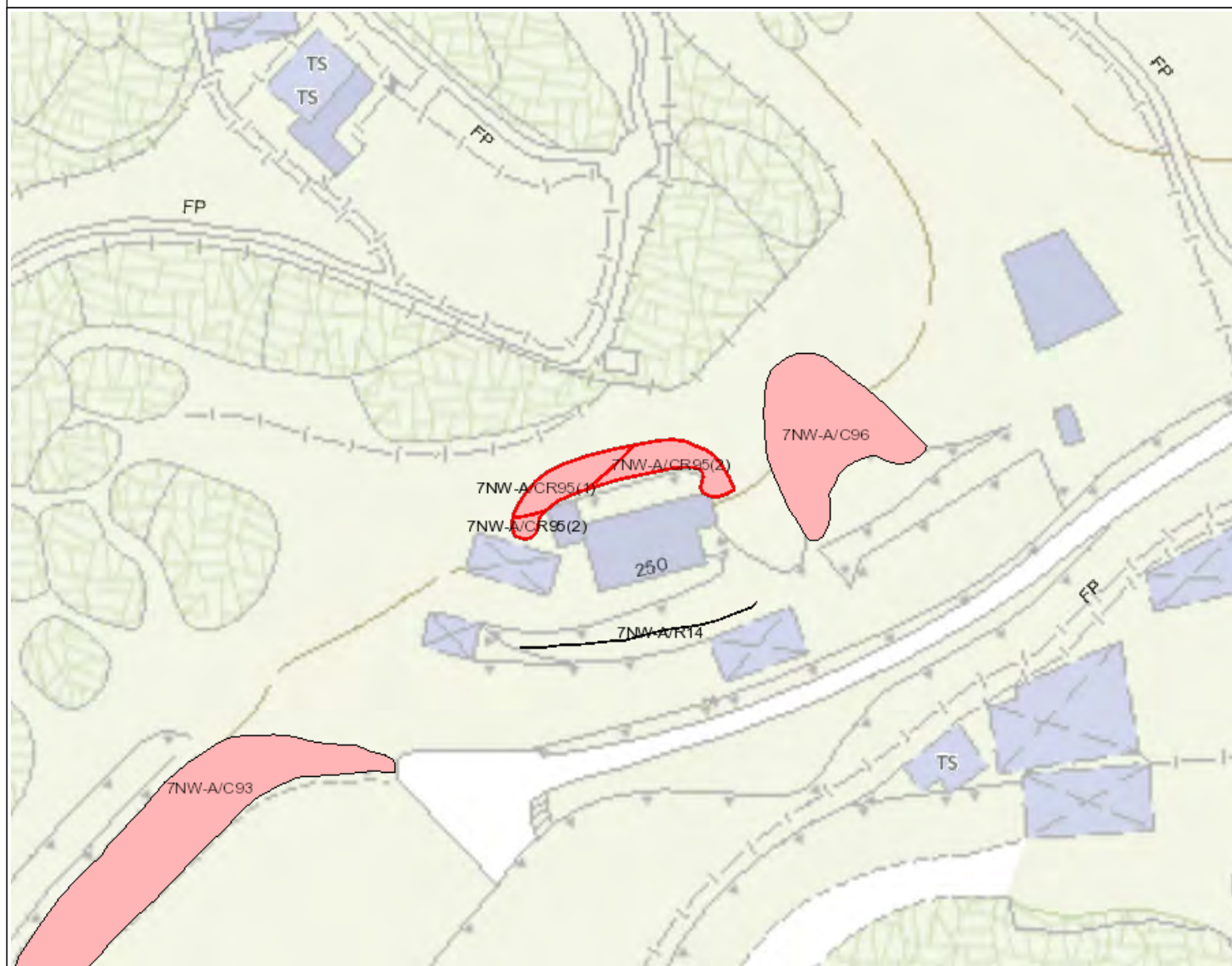
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Search Criteria: 7NW-A/CR95

Location Plan



Legend

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- - - - - 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: 17/06/2025

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Search Criteria: 7NW-A/CR95

Slope Maintenance Responsibility Report

(7NW-A/R14)



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

List of Slope Maintenance Responsibility Area(s)

1	7NW-A/R14		Sub-Division	Not Applicable
	Location	WITHIN DD16 LOT572		
	Responsible Lot/Party	DD16 Lot572	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

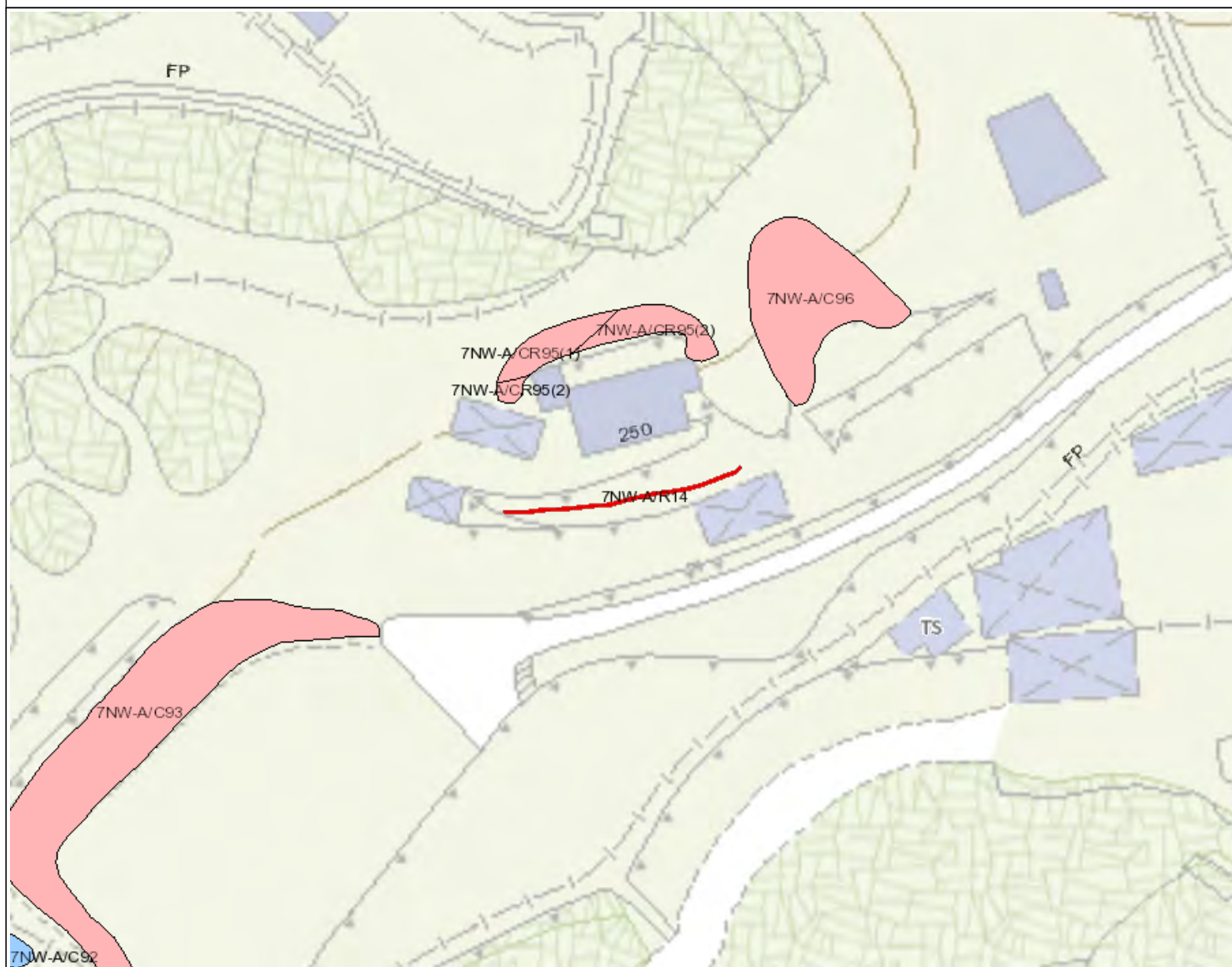
Notes:

- (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.

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Search Criteria: 7NW-A/R14

Location Plan



Legend

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



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

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Search Criteria: 7NW-A/R14

Appendix C

Slope Records Retrieved from CEDD

BASIC INFORMATION

Location: House No. 16 Ngau Kwu Leng New Village, Ngau Kwu Leng, Tai Po
Registration Date: 24-10-1997
Ranking Score (NPRS): 0 (LPMit)
Date of Formation: pre-1977
Date of Construction/ Modification:
Data Source: EI(Lands D)
Approximate Coordinates: Easting : 832780 Northing : 835875

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Cottage, licensed and squatter area
Distance of Facility from Crest (m): 3.8
Facility at Toe: Residential building
Distance of Facility from Toe (m): 0.7
Consequence-to-life Category: 1
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 6.5 Length (m): 32 Average Angle (deg): 55

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Government Feature Party: Lands D Agent: Lands D Land Cat.: 5b(vi) Reason Code: 62,90,92 MR Endorsement Date: 04-05-1999

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 30-11-2000
Data Source: EI(Lands D)
Slope Part Drainage: (1) Position: Crest Size(mm): 201
(2) Position: Toe Size(mm): 325
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 0 Shotcrete: 0 Other Cover: 100

Material Description: Material type: Soil Geology: N/A

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

Weepholes: Size (mm): N/A Spacing (m): N/A

WALL PART

N/A

SERVICES

(1) Utilities Type: Water Main Size(mm): 35 Location: On crest Remark: N/A

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

GIU Cell Ref.: 7NW2B3

Map Sheet Reference (1:1000): 7NW- 2B

Aerial Photos: Y11982 (1964), Y11983 (1964)

Nearest Rainuage Station (Station Number): Booster Pumping Station, Hong Lok Yuen(N35)

Data Collected On: 30-11-2000

Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1964 After: N/A

Related Reports/Files or Documents: File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI
File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI

Remarks: N/A

Follow Up Actions: N/A

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

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

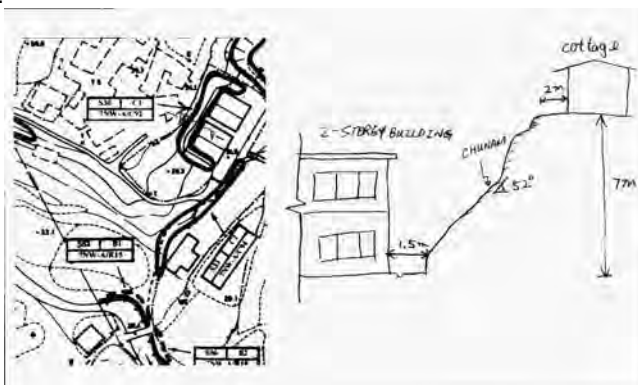
LPMIS: Agreement No.: CE3/2001 Report No.: S3R094/2002

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 19/02/2025)

STAGE 1 STUDY REPORT

Inspected On: 09-05-1997
Weather: Some Rain
District: ME



Section No: 1-1
Height(m): H1 : 7 , H2 : 0
Type of Toe Facility: Residential building
Distance from Toe(m): 0.7
Type of Crest Facility: Cottage, licensed and squatter area
Distance from Crest(m): 3.8
Consequence Category: 1
Engineering Judgement: HP
Section No: 2-2
Type of Toe Facility: N/A
Distance from Toe(m): 0
Type of Crest Facility: N/A
Distance from Crest(m): 0
Consequence Category: 1
Engineering Judgement: HP
Sign of Seepage: Slope : No signs of seepage
Wall : N/A
Criterion A satisfied: N
Sign of Distress: Slope : Minor (near crest, mid-portion, at toe)
Wall : N/A
Criterion D satisfied: N
Non-routine maintenance required: N
Note: N/A
Masonry wall/Masonry facing: N
Note: N/A
Consequence category (for critical section): 1

Observations: N/A
Emergency Action Required: N
Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

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

OTHER EXTERNAL ACTION

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

eLPMIS

LPM/LPMit Details Report

LPM Study Feature No.: 7NW-A/C 92
Location: HOUSE NO.16, NGAU KWU LENG NEW VILLAGE, NGAU KWU LEUNG, TAI PO
District Council: Tai Po
Maintenance Responsibility (At the Time of Selection): Government
Responsible Party for Maintenance of Government Lands D Portion:
Private Lot No.: N/A

LPM/LPMit Study

Agreement No.: CE3/2001
Study Type: Stage 3 Study Under Schedule of Rates Contract
Consultant: Halcrow China Ltd.
GEO Managing Section / Engineer: LPM1 / CM11
Study Status: Study completed
Design Approach: Conventional (GI + Analysis)
Option Assessment Accepted: N/A
Study Report No.: S3R094/2002
Programme / Actual Commencement: 01-03-2002
Programme / Actual Completion: 04-10-2002
Report Recommendation (For Stage 2 Study): Upgrading Works
District Check Status: Exempted from checking
Checking Certificate No.: GEO/LPM012/2003

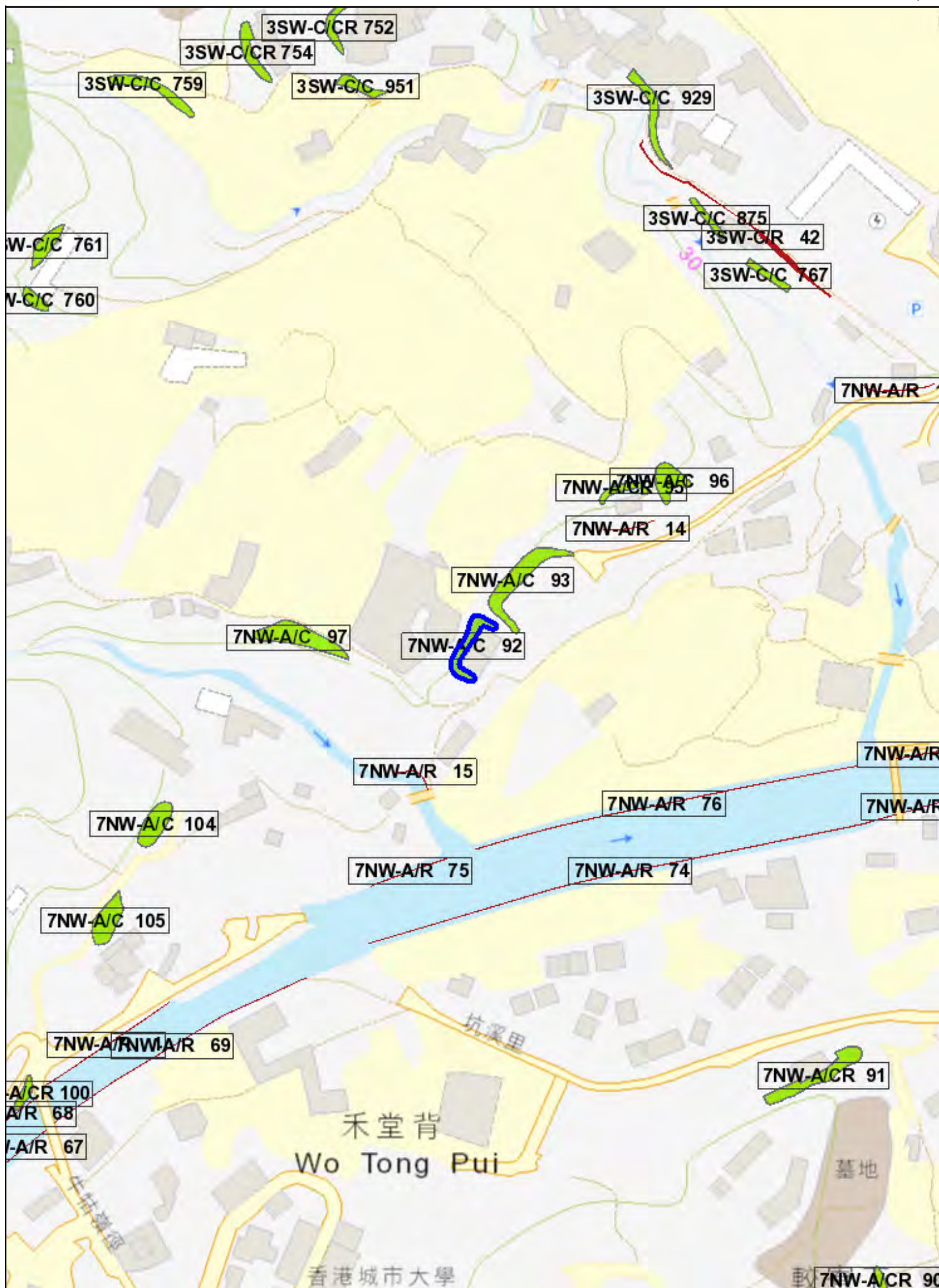
GEO Engineer's Remarks: N/A

LPM/LPMit Works

Works Contract No.: GE/2002/06
GEO Managing Section / Engineer: LPM1 / CM11
Contractor: Barbican Construction Company Limited
Progress Status: Maintenance completed
Reason of Study Termination / Works Deletion (If Necessary): N/A
Forecast Commencement Date: 11-07-2002
Forecast Completion Date: 10-01-2003
Completion Cert. Issued: N/A
Site Handed Over to Maintenance Department on: N/A
Estimated Cost for Upgrading (HK\$M): 0.6570
Maintenance Manual No.: MM018/2003
Actual Works: Skin wall, Soil nail
No. of Tree Felled: N/A
No. of Tree Planted (Incl. Transplant): N/A
% Bare of Slope Surfacing: N/A
% Vegetated of Slope Surfacing: N/A
% Shotcrete of Slope Surfacing: N/A
Other Hard Surface of Slope Surfacing: N/A

PHOTO





BASIC INFORMATION

Location: HOUSE NO.72 SAI HO YUEN, TSE DEI VILLAGE, LAM TSUEN, TAI PO
Registration Date: 24-10-1997
Ranking Score (NPRS): 0 (LPMit)
Date of Formation: pre-1977
Date of Construction/ Modification:
Data Source: Project Office
Approximate Coordinates: Easting : 832802 Northing : 835904

CONSEQUENCE-TO-LIFE CATEGORY

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

SLOPE PART

(1) Max. Height (m): 4.6 Length (m): 40 Average Angle (deg): 61

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: DD16 Lot572 Agent: N/A Land Cat.: 1,5b(vi),7 Reason Code: 1 MR Endorsement Date: 01-12-1997

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 13-02-2010
Data Source: Project Office
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 5 Chunam: 0 Shotcrete: 0 Other Cover: 95
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

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

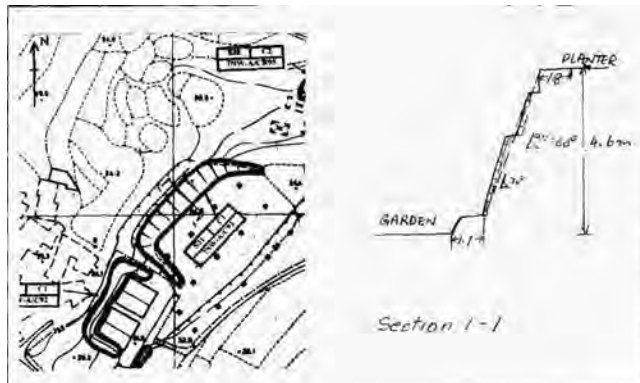
GIU Cell Ref.:	7NW2B3
Map Sheet Reference (1:1000):	7NW- 2B
Aerial Photos:	Y11982 (1964), Y11983 (1964)
Nearest Rainguage Station (Station Number):	Booster Pumping Station, Hong Lok Yuen(N35)
Data Collected On:	13-02-2010
Date of Construction, Subsequent Modification and Demolition:	Modification: Constructed Before: 1964 After: N/A
Related Reports/Files or Documents:	File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI
Remarks:	N/A
Follow Up Actions:	N/A
DH-Order (To Be Confirmed with Buildings Department):	None
Advisory Letter (To Be Confirmed with Buildings Department):	None
LPMIS:	None

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 19/02/2025)

STAGE 1 STUDY REPORT

Inspected On: 05-05-1997
Weather: Some Rain
District: ME



Section No: 1-1
Height(m): H1 : 5 , H2 : 0
Type of Toe Facility: Horticulture garden
Distance from Toe(m): 0
Type of Crest Facility: Lightly-used open area/facilities
Distance from Crest(m): 0
Consequence Category: 2
Engineering Judgement: P
Section No: 2-2
Type of Toe Facility: N/A
Distance from Toe(m): 0
Type of Crest Facility: N/A
Distance from Crest(m): 0
Consequence Category: 2
Engineering Judgement: P
Sign of Seepage: Slope : Slight to moderate seepage below mid-height
Wall : N/A
Criterion A satisfied: N
Sign of Distress: Slope : N/A
Wall : N/A
Criterion D satisfied: N
Non-routine maintenance required: N
Note: N/A
Masonry wall/Masonry facing: Y
Note: DRESSED BLOCKS WITH POINTING.
Consequence category (for critical section): 2
Observations: N/A
Emergency Action Required: N
Action By: N/A



ACTION TO INITIATE PREVENTIVE WORKS

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

OTHER EXTERNAL ACTION

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

PHOTO



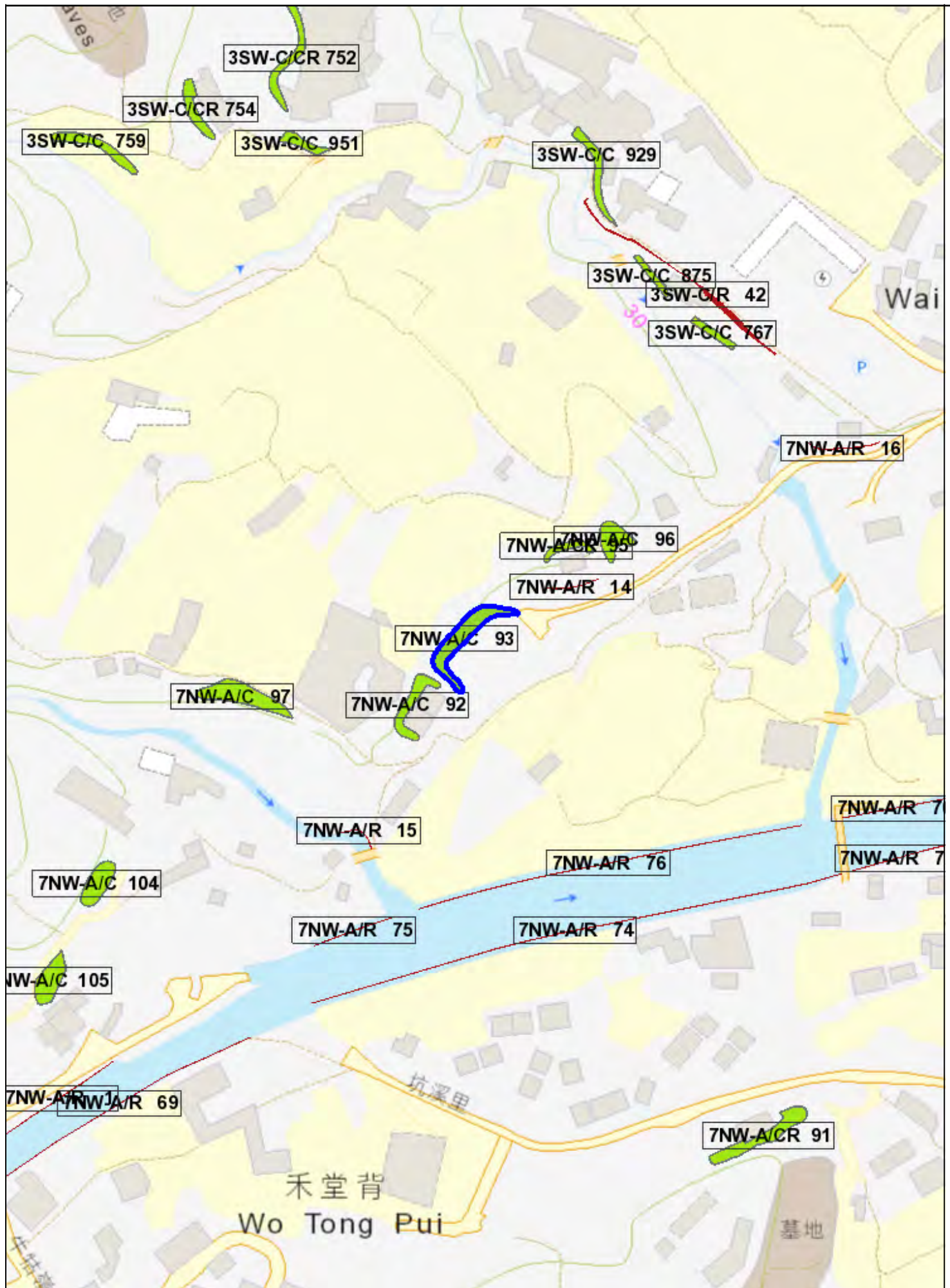
7NW-A/C93

TOP VIEW OF THE FEATURE



7NW-A/C93

GENERAL VIEW



BASIC INFORMATION

Location: HOUSE NO.72 SAI HO YUEN, TSE DEI VILLAGE, LAM TSUEN, TAI PO
Registration Date: 24-10-1997
Ranking Score (NPRS): 0 (Notional)
Date of Formation: pre-1977
Date of Construction/ Modification:
Data Source: SIRST
Approximate Coordinates: Easting : 832865 Northing : 835945

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt
Distance of Facility from Crest (m): 0
Facility at Toe: Road/footpath with very low traffic density
Distance of Facility from Toe (m): 1.2
Consequence-to-life Category: 3
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 4.5 Length (m): 15 Average Angle (deg): 20

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: DD16 Lot572 Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 01-09-1997

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 05-05-1997
Data Source: SIRST
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 2 Vegetated: 98 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

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

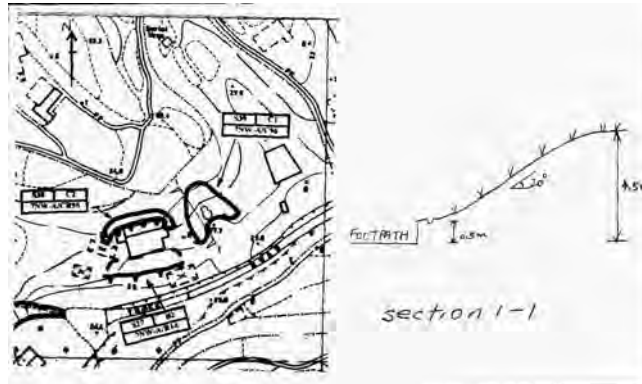
GIU Cell Ref.:	7NW2B3
Map Sheet Reference (1:1000):	7NW- 2B
Aerial Photos:	Y11982 (1964), Y11983 (1964)
Nearest Rainguage Station (Station Number):	Booster Pumping Station, Hong Lok Yuen(N35)
Data Collected On:	05-05-1997
Date of Construction, Subsequent Modification and Demolition:	Modification: Constructed Before: 1964 After: N/A
Related Reports/Files or Documents:	File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt. VI
Remarks:	N/A
Follow Up Actions:	N/A
DH-Order (To Be Confirmed with Buildings Department):	None
Advisory Letter (To Be Confirmed with Buildings Department):	None
LPMIS:	None

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 19/02/2025)

STAGE 1 STUDY REPORT

Inspected On: 05-05-1997
Weather: Some Rain
District: ME



Section No: 1-1
Height(m): H1 : 5 , H2 : 0
Type of Toe Facility: Road/footpath with very low traffic density
Distance from Toe(m): 1.2
Type of Crest Facility: Undeveloped green belt
Distance from Crest(m): 0
Consequence Category: 3
Engineering Judgement: U
Section No: 2-2
Type of Toe Facility: N/A
Distance from Toe(m): 0
Type of Crest Facility: N/A
Distance from Crest(m): 0
Consequence Category: 3
Engineering Judgement: U
Sign of Seepage: Slope : No signs of seepage
Wall : N/A
Criterion A satisfied: N
Sign of Distress: Slope : N/A
Wall : N/A
Criterion D satisfied: N
Non-routine maintenance required: N
Note: N/A
Masonry wall/Masonry facing: N
Note: N/A
Consequence category (for critical section): 3
Observations: N/A
Emergency Action Required: N
Action By: N/A



ACTION TO INITIATE PREVENTIVE WORKS

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

OTHER EXTERNAL ACTION

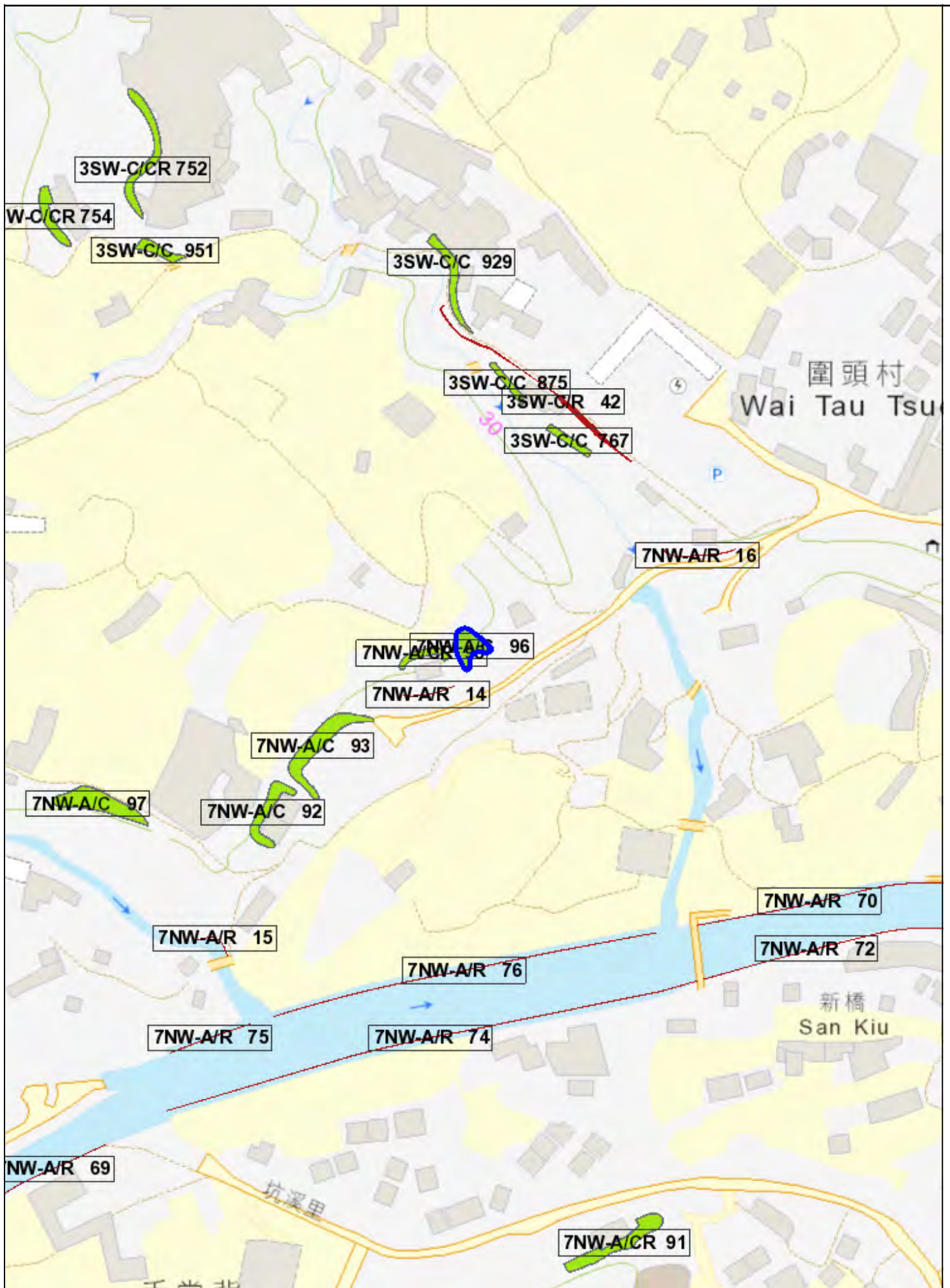
Check / repair Services:	N
Action By:	N/A
Non-routine Maintenance:	N
Action By:	N/A

PHOTO



7NW-A/C96

GENERAL VIEW



BASIC INFORMATION

Location: BEHIND A HOUSE INSIDE SAI HO YUEN, TSE DEI VILLAGE, LAM TSUEN, TAI PO
Registration Date: 24-10-1997
Ranking Score (NPRS): 359 (LPMit)
Date of Formation: post-1977
Date of Construction/ Modification:
Data Source: LPM
Approximate Coordinates: Easting : 832846 Northing : 835941

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt
Distance of Facility from Crest (m): 0
Facility at Toe: Cottage, licensed and squatter area
Distance of Facility from Toe (m): 2
Consequence-to-life Category: 1
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 1.2 Length (m): 22 Average Angle (deg): 75

WALL PART

(1) Max. Height (m): 2.7 Length (m): 22 Face Angle (deg): 85

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1 Private Feature Party: DD16 LOT124 Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 22-11-2016
(2) Sub Div.: 2 Private Feature Party: DD16 LOT572 Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 22-11-2016

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 16-11-2016
Data Source: LPM
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 0 Chunam: 0 Shotcrete: 0 Other Cover: 100
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

Wall Part (1)
Type of Wall: Wall Material: Masonry Wall Location: Wall at toe
Berm: No. of Berms: N/A Min. Berm Width (m): N/A
Weepholes: Size (mm): N/A Spacing (m): N/A

SERVICES

N/A

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

GIU Cell Ref.: 7NW2B3
Map Sheet Reference (1:1000): 7NW- 2B
Aerial Photos: A26647 (1991), A26648 (1991)
Nearest Rainguage Station (Station Number): Booster Pumping Station, Hong Lok Yuen(N35)
Data Collected On: 16-11-2016
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1964 After: N/A
Modification: Modified Before: 1991 After: 1988
Related Reports/Files or Documents: File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt.VI
File/Report: PWDC Ref. No.: GC 4/1/2-3 f (19) pt.VI
Remarks: N/A
Follow Up Actions: N/A
DH-Order (To Be Confirmed with Buildings Department): Date of Recommendation to BD: 16/06/2017 File Reference: DH/0033/16/NT
Date Served by BD: 06/01/2023 Notice No.: DH0001/NT/23/C
Date of Recommendation to BD: 16/06/2017 File Reference: DH/0033/16/NT
Date Served by BD: 03/01/2025 Notice No.: DH0001/NT/25/C
Date of Recommendation to BD: 16/06/2017 File Reference: DH/0033/16/NT
Date Served by BD: 12/04/2018 Notice No.: DH0019/NT/18/C
Date of Recommendation to BD: 16/06/2017 File Reference: DH/0042/16/NT
Date Served by BD: 06/01/2023 Notice No.: DH0002/NT/23/C
Date of Recommendation to BD: 16/06/2017 File Reference: DH/0042/16/NT
Date Served by BD: 03/01/2025 Notice No.: DH0002/NT/25/C
Date of Recommendation to BD: 16/06/2017 File Reference: DH/0042/16/NT
Date Served by BD: 12/04/2018 Notice No.: DH0020/NT/18/C

Advisory Letter (To Be Confirmed
with Buildings Department):

None

LPMIS:

Agreement No.: CE36/2013

Report No.: S2R059/2016

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 19/02/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: ME

Section No: 1-1

Height(m):

Type of Toe Facility: Cottage, licensed and squatter area

Distance from Toe(m): 2

Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical
section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

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

OTHER EXTERNAL ACTION

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

eLPMIS

LPM/LPMit Details Report

LPM Study Feature No.: 7NW-A/CR 95
Location: BEHIND A HOUSE INSIDE SAI HO YUEN, TSE DEI VILLAGE, LAM TSUEN, TAI PO
District Council: Tai Po
Maintenance Responsibility (At the Time of Selection): Private
Responsible Party for Maintenance of Government Portion: N/A
Private Lot No.: DD16 Lot124,DD16 Lot572

LPM/LPMit Study

Agreement No.: CE36/2013
Study Type: Stage 2 Study
Consultant: C M Wong & Associates Ltd.
GEO Managing Section / Engineer: SS / SS1
Study Status: Study completed
Design Approach: N/A
Option Assessment Accepted: N/A
Study Report No.: S2R059/2016
Programme / Actual Commencement: 18-03-2015
Programme / Actual Completion: 08-09-2016
Report Recommendation (For Stage 2 Study): DH Order
District Check Status: N/A
Checking Certificate No.: N/A
GEO Engineer's Remarks: N/A

LPM/LPMit Works

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



SLOPE INFORMATION SYSTEM

GEOTECHNICAL ENGINEERING OFFICE
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Feature No. 7NW-A/CR 95

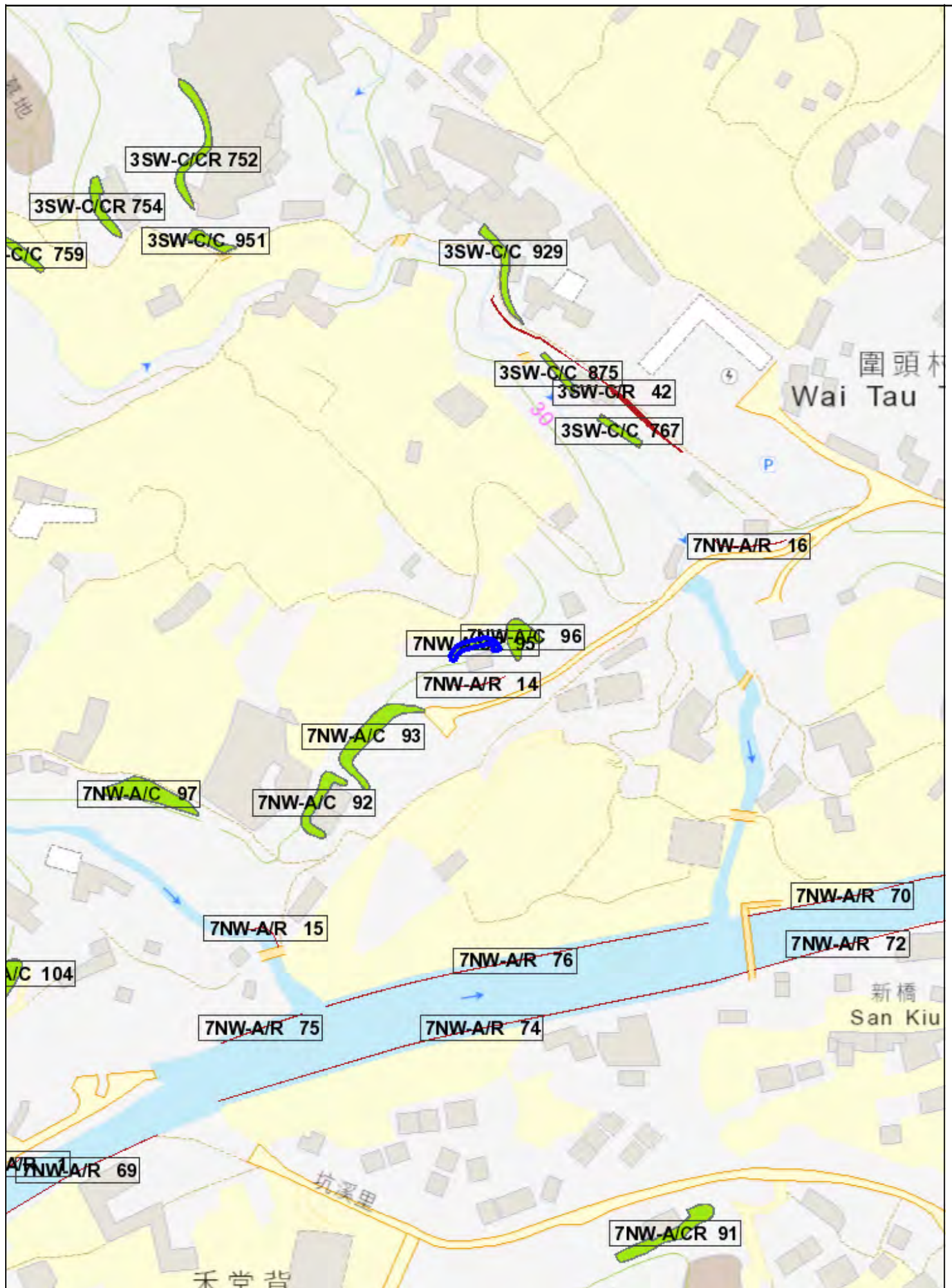
Progress Status:	N/A
Reason of Study Termination / Works Deletion (If Necessary):	N/A
Forecast Commencement Date:	N/A
Forecast Completion Date:	N/A
Completion Cert. Issued:	N/A
Site Handed Over to Maintenance Department on:	N/A
Estimated Cost for Upgrading (HK\$M):	N/A
Maintenance Manual No.:	N/A
Actual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

PHOTO



7NW-A/CR95

GENERAL VIEW



BASIC INFORMATION

Location: IN FRONT OF HOUSE IN SAI HO YUEN, 72 TSE DEI TSUEN, TAI PO
Registration Date: 30-09-1999
Ranking Score (NPRS): 8 (Notional)
Date of Formation: post-1977
Date of Construction/ Modification:
Data Source: SIRST
Approximate Coordinates: Easting : 832850 Northing : 835924

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Residential building
Distance of Facility from Crest (m): 2
Facility at Toe: Densely-used sitting out area
Distance of Facility from Toe (m): 0
Consequence-to-life Category: 1
Remarks: N/A

SLOPE PART

N/A

WALL PART

(1) Max. Height (m): 3 Length (m): 22 Face Angle (deg): 80

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: DD16 Lot572 Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 01-09-1997

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 06-08-1998
Data Source: SIRST
Slope Part Drainage: N/A
Wall Part Drainage: (1) Position: Toe Size(mm): 275

SLOPE PART

N/A

WALL PART

Wall Part (1)

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

SERVICES

N/A

CHECKING STATUS INFORMATION

N/A

BACKGROUND INFORMATION

GIU Cell Ref.:	7NW2B3
Map Sheet Reference (1:1000):	7NW- 2B
Aerial Photos:	A26647 (1991), A26648 (1991)
Nearest Rainguage Station (Station Number):	Booster Pumping Station, Hong Lok Yuen(N35)
Data Collected On:	06-08-1998
Date of Construction, Subsequent Modification and Demolition:	Modification: Constructed Before: 1991 After: 1988
Related Reports/Files or Documents:	File/Report: PWDC Ref. No.: GCME4/1/2-3 f(19) pt.VI File/Report: PWDC Ref. No.: GCME4/1/2-3 f(19) pt.VI
Remarks:	N/A
Follow Up Actions:	N/A
DH-Order (To Be Confirmed with Buildings Department):	None
Advisory Letter (To Be Confirmed with Buildings Department):	None
LPMIS:	None

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 19/02/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: ME

Section No: 1-1

Height(m):

Type of Toe Facility: Densely-used sitting out area

Distance from Toe(m): 0

Type of Crest Facility: Residential building

Distance from Crest(m): 2

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



7NW-A/R14

GENERAL VIEW

F22



Appendix D

Extraction of Previous GI Records



Gold Ram Engineering & Development Limited

JOB NO. GE/2001/38
HOLE NO. DH/08/01
SHEET 1 of 2
DATE from 22.12.2001 to 27.12.2001

PROJECT House No.16, Ngau Kwu Leng New Village, Ngau Kwa Leng, Tai Po, N.T. Feature No.: 7NW-A/C92
Works Order No.GE200138/GI/02

METHOD	Rotary	CO-ORDINATES	ROCK CORE BIT T2-101
Rig & No.	DR5	E 832,771.48 N 835,867.74	CASING 0.00m to 12.80m 115mm
FLUSHING MEDIUM	Air Foam	ORIENTATION VERTICAL	GROUND LEVEL +31.16 mP.D.

Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
1	115mm			84					T2-101 0.00					Light reddish brown to pinkish brown and grey to dark grey, subangular to subrounded GRAVEL and COBBLE size fragments of moderately to slightly decomposed tuff with a little light brown, light grey and light reddish brown, clayey, fine sandy silt matrix. (COLLUVIUM)
2				70					T2-101 0.80					
3				72					T2-101 1.20					
22.12.01									T2-101 2.00					
24.12.01		DRY at 08:00								+29.16	2.00			Soft, brown to light reddish brown mottled yellow and white streaked black, clayey, slightly sandy SILT with some subangular to rounded gravel size fragments of moderately decomposed tuff. (COLLUVIUM)
3									1 2.20					
4									1 3.20					
5									2 3.30					
6									2 4.30					
7				85					3 4.40	+26.76	4.40			Extremely weak to locally very weak, light yellowish brown to light reddish brown dappled light grey streaked black, completely to highly decomposed TUFF with some gravel size fragments of weak highly decomposed tuff and manganese coated relict joints. (Firm, clayey, slightly fine sandy SILT with some gravel size fragments of rock).
8									4 5.00					
9				100					5 5.10					
10									6 6.10					
11				98					7 6.20					
24.12.01		DRY at 06:00							8 7.20					
27.12.01		DRY at 08:00							9 7.30					
12				100					10 8.30					
13									11 8.40					
14									12 9.40					
15				87					12 9.50					

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Limer Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Water Level
- Standard Penetration Test
- Permeability Test
- Piezometer Tip
- Standpipe Tip
- Pressuremeter Test
- Impression Packer Test
- Vane Shear Test

LOGGED M.Chiu
DATE 28.12.2001
CHECKED S.Flux
DATE 28.12.2001

REMARKS

HOUSING LPN08A GPJ HK 02 GDT 23-01-02

Form: PRO/05/03E

Gold Ram Engineering & Development Limited

JOB NO. GE/2001/38
HOLE NO. DH/08/01
SHEET 2 of 2
DATE from 22.12.2001 to 27.12.2001

PROJECT House No.16, Ngau Kwu Leng New Village, Ngau Kwa Leng, Tai Po, N.T. Feature No.: 7NW-A/C92
Works Order No.GE200138/GI/02

METHOD Rotary

CO-ORDINATES

ROCK CORE BIT T2-101

Rig & No. DR5

E 832,771.48

0.00m to 12.80m 115mm

N 835,867.74

CASING

FLUSHING MEDIUM Air Foam

ORIENTATION VERTICAL

GROUND LEVEL +31.16 mP.D.

Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples			Reduced Level	Depth (m)	Legend	Grade	Description
									No.	Type	Depth					
				100					13							Same as Previous Page
									14		10.50 10.60					
11				100					15							
									16		11.60 11.70					
12	12.80 115mm			100					17							
13									18		12.70	+18.36	12.80			End of hole at 12.80m.
14																
15																
16																
17																
18																
19																
20																

• Small Disturbed Sample
 ○ Large Disturbed Sample
 ▨ SPT Liner Sample
 ▨ U76 Undisturbed Sample
 ▨ U100 Undisturbed Sample
 ▨ Mazler Sample
 □ Piston Sample
 ▲ Water Sample

✕ Water Level
 ─ Standard Penetration Test
 ─ Permeability Test
 ■ Piezometer Tip
 ⊕ Standpipe Tip
 ⊕ Pressuremeter Test
 ⊕ Impression Packer Test
 < e-0 Vane Shear Test

LOGGED M.Chiu

DATE 28.12.2001

CHECKED S.Flux

DATE 28.12.2001

REMARKS

A standpipe piezometer was installed at 12.30m, with response zone from 11.30m to 12.80m.



Gold Ram Engineering & Development Limited

JOB NO. GE/2001/38
HOLE NO. CH/08/01
SHEET 1 of 1
DATE from 27.12.2001 to 27.12.2001

PROJECT House No.16, Ngau Kwu Leng New Village, Ngau Kwa Leng, Tai Po, N.T. Feature No.: 7NW-A/C92
Works Order No.GE200138/GU/02

METHOD	Rotary	CO-ORDINATES	ROCK CORE BIT T2-101
Rig & No.	CORING MACHINE	E 832,777.34 N 835,868.41	CASING
FLUSHING MEDIUM	Water	ORIENTATION 0HORIZONTAL	GROUND LEVEL +25.84 mP.D.

Drilling Progress	Casing depth/size	Water level/ time/ date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R.Q.D.	Fracture Index	Tests	Samples No. Type Depth	Reduced Level	Depth (m)	Legend	Grade	Description
				100					T2-101 0.20	+25.84	0.20			Strong, light grey spotted grey, CONCRETE with many subangular gravel size fragments of granite. (CONCRETE RETAINING WALL) Soft to firm, light brown spotted white and light grey, clayey, slightly sandy SILT with some to many gravel size fragments of highly decomposed tuff and quartz. (COLLUVIUM)
1									1 • 1.00					
2									2 • 2.00					2.00-3.00m: Recovered as medium gravel size fragments of highly decomposed tuff.
3				5					T2-101 3.00	+25.84	3.00			Soft to firm, light reddish to orangish brown, clayey, slightly fine sandy SILT with occasional gravel size fragments of highly decomposed tuff. (COLLUVIUM)
4									4 • 4.00					
5									5 • 5.00	+25.84	5.00			Soft, yellowish brown mottled yellow and grey streaked black, clayey, slightly sandy SILT with occasional to some gravel size fragments of completely to highly decomposed tuff. (COLLUVIUM)
28.12.01									6 • 6.00	+25.84	6.00			End of hole at 6.00m.
7														
8														
9														
10														

- Small Disturbed Sample
- Large Disturbed Sample
- SPT Liner Sample
- U76 Undisturbed Sample
- U100 Undisturbed Sample
- Mazier Sample
- Piston Sample
- Water Sample
- Water Level
- Standard Penetration Test
- Permeability Test
- Piezometer Tip
- Standpipe Tip
- Pressuremeter Test
- Impression Packer Test
- Vane Shear Test

LOGGED P.Procter
DATE 28.12.2001
CHECKED S.Flux
DATE 28.12.2001

REMARKS



Gold Ram Engineering & Development Ltd

TRIAL PIT No.: TP/08/01

Excavation Date: 10.12.2001 - 12.12.2001.

Backfill Date: 04.01.2002

TRIAL PIT RECORD

Co-ordinates: E 832,790.51

N 835,885.07

Ground Level: +27.34 mPD

PROJECTGround Investigation Works for Slopes in Tai Po and Yuen Long
House No. 16, Ngau Kwu Leng New Village, Ngau Kwu Leng, Tai Po. Feature No. 7NW-A/C92

W.O. No.: GE 2001/38/GI/08

Contract No.: GE/2001/38

Logged By: P.Procter

Date: 18.12.2001

Checked By: S.Flux

Date: 20.12.2001

Samples & Tests	Depth (m)	Face A: 1.5m	Face B: 1.5m	Face C: 1.5m	Face D: 1.5m	Legend	Grade	Description
I ₂	0.10	A						Strata A: Soft dark greyish brown, mottled black, sandy, clayey SILT with some angular and subrounded to rounded fine to coarse gravel and tuff with occasional cobble of moderately strong tuff and many roots. (TOPSOIL/COLLUVIUM)
	0.70	B	A	A	A			Strata B: Soft to firm dark yellowish brown, mottled light yellowish brown slightly sandy, clayey SILT with some subrounded to rounded fine to coarse gravel and cobble with occasional boulder of moderately strong moderately decomposed tuff. (COLLUVIUM)
	1.20	C	B	B	B			Strata C: Firm dark yellowish brown mottled light pink, light yellowish brown slightly sandy, clayey SILT. (RESIDUAL SOIL)
	2		C	C	C			Strata D: Extremely weak light pink and light yellowish brown mottled white, light grey, streaked dark grey, completely decomposed TUFF with relict texture. (Firm slightly clayey, slightly sandy SILT)
I ₅	6							
I ₉	10	D	D	D	D		V	
	3							
	3.30							
								Feature X: BOULDER of moderately strong, moderately decomposed tuff.
Symbol	Samples/Tests/Water			Plan (Not to Scale)			Remarks	
•	Small Disturbed Sample						Trial pit terminated at 3.30m. Groundwater not encountered. Sides stable, shoring installed. 2 No. GCO probe tests were carried out prior to excavation. *Indicates qualitative assessment only. Depth of samples and termination refers to mid point of face B.	
I	Bulk Disturbed Sample							
■	Undisturbed Horizontal Sample(U100/U76)							
■	Undisturbed Vertical Sample(U100/U76)							
⊠	Block Sample							
∇	In-situ Density Test							
▲	Water Sample							
~	Seepage							



Gold Ram Engineering & Development Ltd

TRIAL PIT No.: TP/08/02

Excavation Date: 15.12.2001 - 17.12.2001.

Backfill Date: 31.12.2001

TRIAL PIT RECORD

Co-ordinates: E 832,782.83

N 835,882.52

Ground Level: +28.45 mPD

PROJECTGround Investigation Works for Slopes in Tai Po and Yuen Long
House No. 16, Ngau Kwu Leng New Village, Ngau Kwu Leng, Tai Po Feature No. 711W-A/C92

W.O. No.: GE 2001/38/GI/08

Contract No.: GE/2001/38

Logged By: P.Procter

Date: 18.12.2001

Checked By: S.Flux

Date: 20.12.2001

Contract No.: GE/2001/38		Checked By: S.Flux		Date: 20.12.2001				
Samples & Tests	Depth (m)	Face A: 1.5m	Face B: 1.5m	Face C: 1.5m	Face D: 1.5m	Legend	Grade	Description
I ² I ⁵ ⊠ I ⁹	0						V	Strata A: Firm dark brown mottled black, reddish brown, grey slightly sandy, clayey SILT with much subrounded to rounded fine to coarse gravel and cobble of moderately strong, moderately decomposed tuff, quartz and many roots with occasional plastic. (COLLUVIUM)
	0.50							Strata B: Extremely weak light pink and light yellowish brown mottled white, light grey streaked dark grey completely decomposed TUFF with relict texture. (Firm slightly clayey slightly sandy SILT)
	1							
	2							
	3							
Symbol	Samples/Tests/Water			Plan (Not to Scale)			Remarks	
• I ■ ■ ⊠ v ▲ ~	Small Disturbed Sample Bulk Disturbed Sample Undisturbed Horizontal Sample(U100/U76) Undisturbed Vertical Sample(U100/U76) Block Sample In-situ Density Test Water Sample Seepage						Trial pit terminated at 3.60m. Groundwater not encountered. Sides stable, shoring installed. 2 No. GCO probe tests were carried out prior to excavation. *Indicates qualitative assessment only. Depth of samples and termination refers to mid point of face B.	



Gold Ram Engineering & Development Ltd

TRIAL PIT No.: TP/08/02

Excavation Date: 15.12.2001 - 17.12.2001.

Backfill Date: 31.12.2001

TRIAL PIT RECORD

Co-ordinates: E 832,782.83

N 835,882.52

Ground Level: +28.45 mPD

PROJECTGround Investigation Works for Slopes in Tai Po and Yuen Long
House No. 16, Ngau Kwu Long New Village, Ngau Kwu Long, Tai Po. Feature No. 7NW-A/C92

W.O. No.: GE 2001/38/GI/08

Contract No.: GE/2001/38

Logged By: P. Procter

Date: 18.12.2001

Checked By: S. Flux

Date: 20.12.2001

Samples & Tests	Depth (m)	Face A: 1.5m	Face B: 1.5m	Face C: 1.5m	Face D: 1.5m	Legend	Grade	Description
	3.60							
	4							
	5							
	6							
	7							
Symbol	Samples/Tests/Water			Plan (Not to Scale)			Remarks	
•	Small Disturbed Sample							
1	Bulk Disturbed Sample							
■	Undisturbed Horizontal Sample(U100/U76)							
■	Undisturbed Vertical Sample(U100/U76)							
⊠	Block Sample							
v	In-situ Density Test							
▲	Water Sample							
~	Seepage							

Feature W: BOULDER of moderately strong, moderately decomposed tuff.
Feature X: Quartz vein up to 100mm wide dipping 45°/270°.
Feature Y: Quartz veins up to 15mm wide.
Feature Z: Plastic pipe.

TP (NEW) L0808-8 GPJ HK_03 GDT 20/12/01

Form No.: PRO/05/07a

GOLD RAM ENGINEERING & DEVELOPMENT LTD.

SLOPE STRIPPING LOG

Contract No. GE/2001/38

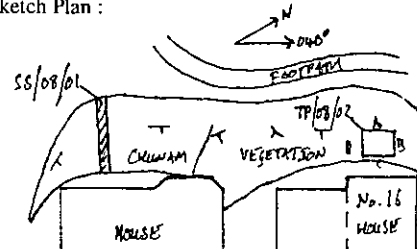
Works Order No: GE 2001/38/G1/08		Datum (Toe) Co-ordinates: E: 832777.18 N: 835868.60 Level: 26.06 mPD		Datum (Crest) Co-ordinates: E: 832774.18 N: 835869.62 Level: 31.29 mPD		Strip No. SS/08/01
Project: House No. 16, Ngau Kwu Leng New Village, Ngau Kwu Leng, Tai Po						Slope No. 7NW-A/C92
Date Started 17/12/2001		Date Completed 19/12/2001		Date Reinstated 16/01/2002	Logged By P. Procter	Checked By S. Flux
Distance From Datum (m)	Slope Angle	Reduced Level (m.P.D.)	Samples and Tests	Description	Legend	Discontinuities Dip Direction / Dip Nature of Infilling
1.10	60°	31.29		Loose* dark yellowish brown mottled light yellowish brown, light grey, reddish brown subrounded occasionally subangular fine to coarse GRAVEL and COBBLE with occasional boulder of moderately strong and moderately weak moderately and highly decomposed tuff in a matrix of dark yellowish brown mottled reddish brown sandy clayey silt. (ALLUVIUM)		
1.50	50°	30.34		...from 1.30 to 1.80m boulder of concrete. (FILL)		
2.90	61°	30.03				
3.10		28.81				
3.50	68°	28.63		Firm dark yellowish brown mottled light yellowish brown, dark grey slightly sandy clayey SILT with occasional subrounded fine to coarse gravel of tuff and occasional rootlets. (COLLUVIUM)		
4.20		28.26				
4.30				Firm dark yellowish brown and dark reddish brown mottled light yellowish brown slightly sandy, clayey SILT with occasional angular fine gravel of tuff. (RESIDUAL SOIL)		
	58°	27.61				
		27.52		Moderately weak light grey and light yellowish brown mottled reddish brown highly decomposed TUFF. Joints are very closely spaced smooth planar extremely narrow with and manganese staining orientated 60°/040°, 85°/160°, 70°/230°		

Remarks: Chunam slope surface protection up to 20mm thick.

Legend :

- * Indicates qualitative assessment
- # Indicates average dominant joint orientation
- Small Disturbed Sample

Sketch Plan :



Sketch Section :



GOLD RAM ENGINEERING & DEVELOPMENT LTD.

SLOPE STRIPPING LOG

Contract No. GE/2001/38

Works Order No: GE 2001/38/GI/08		Datum (Toe) Co-ordinates: E: 832777.18 N: 835868.60 Level: 26.06 mPD		Datum (Crest) Co-ordinates: E: 832774.18 N: 835869.62 Level: 31.29 mPD		Strip No. SS/08/01	
Project: House No. 16, Ngau Kwu Leng New Village, Ngau Kwu Leng, Tai Po						Slope No. 7NW-A/C92	
Date Started 17/12/2001		Date Completed 19/12/2001		Date Reinstated 16/01/2002		Logged By P. Procter	
						Checked By S. Flux	
Distance From Datum (m)	Slope Angle	Reduced Level (m.P.D.)	Samples and Tests	Description	Legend	Discontinuities	
						Dip Direction / Dip	Nature of Infilling
6.00	58°	26.06	•	(6 No.). ...from 5.30 to 6.00m with quartz veins up to 15mm wide.	vvvv vvvv vvvv vvvv vvvv vvvv vvvv		
				End of slope strip at 6.00m.			
Remarks:							
Legend : • Indicates qualitative assessment # Indicates average dominant joint orientation • Small Disturbed Sample			Sketch Plan : 			Sketch Section : 	