

Total: 70 pages

Appendix I

Date: 5 March 2026

TPB Ref.: A/YL-LFS/577

By Email

Town Planning Board
15/F, North Point Government Offices
333, Java Road
North Point
Hong Kong
(Attn: The Secretary)

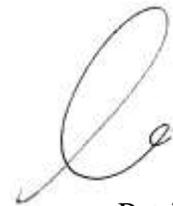
Dear Sir,

Proposed Temporary Open Storage of Construction Machinery & Construction Materials for a Period of 3 Years at Lots 1703 (Part) & 1704 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, N.T.

We are glad to submit the attached GPRR for the consideration of the CEDD.

Should you have any enquiries, please feel free to contact our [REDACTED] [REDACTED] at your convenience.

Yours faithfully,



Patrick Tsui

c.c. Tuen Mun and Yuen Long West District Planning Office (Attn: Ms. Christina LEE) – By Email

Below is the response to the comments from GEO in their email dated 22 Jan 2026.

Description	Response
1. Referring to Section 2 of the GPRR, a 15m long sheet pile wall on plan was found at the crest of Feature No. 2SW-C/C112 adjacent to the application site. The applicant should provide an accurate survey plan to show the existing nature of the site and the surrounds (including the existing slope, sheet pile wall, water mains, drains and other services). The approximate extent of the survey plan is shown on the attached Plan A.	The survey was carried out accordingly, the results are shown in Figure 3 of the Report.
2. It is noted from Section B-B in Figure 5 of the GPRR that the sheet pile wall is supporting a newly formed platform located within the application site (see attached Plan B). The type of filling materials and extent of the newly formed platform should be investigated. The stability of the slope, sheet pile wall and the newly formed platform should be assessed and proposed rectification works should be provided, if found necessary.	As shown in Figure 3, only a short length of the sheetpile (i.e. 0.866m compared to the overall length of 16.8m) has entered into the Application Site. The boundary of the Application Site has then shifted back for a distance of 6.8m from the sheetpiles, which is beyond any newly platform formed and the crest zone recommended in GEO Technical Guidance Note No. 15 (TGN 15). In addition, drainage has been provided to avoid causing surface erosion to the slope.

GEOTECHNICAL PLANNING REVIEW REPORT (GPRR)

FOR

**TEMPORARY OPEN STORAGE OF CONSTRUCTION
MATERIALS FOR A PERIOD OF 3 YEARS**

AT

**LOT NO. 1703 (PART) & 1704 (PART) IN D.D. 129,
LAU FAU SHAN, YUEN LONG, N.T.**

Feb 2026

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Figure 2 Layout Plan

Figure 3 Topographical Survey Plan

Figure 4 Existing Plan

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PLATES

Photo V1 – General view of the site (western side)

Photo V2 – General view of the site (the north side)

Photo V3 – General view of Feature 2SW-C/C120

Photo V4 – General view of the site

Photo V5 – Landslide scar

Photo V6 – Landslide scar

Photo V7 – General view of the site

Photo V8 – General view of the site

Photo V9 – General view of the site

Photo V10 – General view of the site (the north side)

Photo V11 – General view of the Feature 2SW-C/C115

Photo V12 – General view of the Feature 2SW-C/C115

APPENDICES

Appendix A - SIS for Registered Features in the Vicinity of the Site

Appendix B - SIMAR for Registered Features in the Vicinity of the Site

Appendix C - Incident Record for Registered Features in the Vicinity of the Site

Appendix D - Drainage Design

1. INTRODUCTION

It is proposed to apply the site to be the temporary open storage of construction materials for a period of 3 years at Lot Nos. 1703 (Part) and 1704 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, N.T., under section 16 of the Town Planning Ordinance (Application No. A/YL-LFS/577). This report presents a Geotechnical Planning Review Report (GPRR) of the site to support the planning application.

2. SITE DESCRIPTION

The subject site is located at Lot Nos. 1703 (Part) and 1704 (Part) in D.D. 129. A site location plan and site layout plan are shown in Figure 1 and Figure 2, respectively. The site is about rectangular shape on plan and has an area of approximately 830m², and the site is an open space.

A topographical survey was carried out (see Figure 3. Details of existing adjacent features are described as below.

There are 3 registered features in the vicinity of the proposed development. The locations of the features are shown in Figure 4. Slope Information System (SIS) reports, and Slope Maintenance Responsibility Information System (SIMAR) reports indicating the location of the features and their maintenance responsibility are attached in Appendix A and B. A landslide occurred at around 13m near the site area.

Maintenance Responsibility of features in the vicinity of the proposed development:

Feature No.	Sub-division No.	Maintenance Responsibility
2SW-C/C 112	1	D.D.129 Lot 1710
	2	D.D.129 Lot 1711
	3	D.D.129 Lot 1712
	4	Lands Department
	5	D.D.129 Lot 2279 S.B
	6	D.D.129 Lot 2280
	7	D.D.129 Lot 2285
	8	D.D.129 Lot 2296
	9	D.D.129 Lot 2284
2SW-C/C 115	1	D.D.129 Lot 1710
	2	D.D.129 Lot 1711
	3	Lands Department
	4	D.D.129 Lot 1706
	5	D.D.129 Lot 1705 S.B
	6	D.D.129 Lot 1705 S.A
	7	D.D.129 Lot 1701
	8	D.D.129 Lot 1703
	9	D.D.129 Lot 1704
2SW-C/C 120	1	D.D.129 Lot 1702

Description of the features is as follows:

Feature No. 2SW-C/C112

The feature is located at the north-west boundary of the site. It is a vegetated slope with a maximum height of 7.5 m in the vicinity of the application Site, and the average slope angle is 41°. The feature length is 155 m. A 16.8 m long sheet pile wall on plan was found at the crest of Feature 2SW-C/C112 adjacent to the Application Site with a retaining height of about 2.2m. Photos V2 and V10 show the location of the sheet pile.

Feature No. 2SW-C/C115

This is a U-shaped feature located at the eastern boundary of the site. It consists of a vegetated slope with a maximum height of 7 m and has a face angle of about 60°. This feature is about 160m long.

Feature No. 2SW-C/C120

The feature is located at the southern-west side boundary of the site. The feature is a slope with a maximum 3 m high and the slope angle is about 55°. The slope is dipping from west to east, and the length of the slope is about 55 m. During the site inspection carried out on 10 December 2025, 24 nos. of 1.0m x 1.0m x 1.0m concrete blocks have been placed along the northern part of the slope toe; the photo is shown in Photo V3.

3. DESK STUDY

3.1 Site Geology

With reference to the 1:20,000 geological map published by the Geotechnical Control Office, Hong Kong Geological Survey Sheet No. 2, the site is located within the area of megacrystic fine-medium-grained granite (gfm), which is in line with the site observation. It is reasonably expected that the subsurface geology comprises a stratum of CDG. An extract from the geological survey sheet is shown in Figure 7.

Feature 2SW-C/C112 was studied under S2R069/2018 in 2018. The study recommended the installation of drainage only; no action was required for the portion closest to our site. A landslide incident was recorded in Ginfo on 13 August 2025 at sub-division 4 & 6 of the feature. The location of the landslide scars is marked in the existing plan in Figure 4 and the incident records are shown in Appendix C.

3.2 Past Ground Investigation and Relevant Geotechnical Record in GIU

Based on the information search in the Geotechnical Information Unit (GIU) carried out on 19 December 2025 at the Civil Engineering & Development Department (CEDD), it revealed that there is no ground investigation and no relevant geotechnical record or report could be found in the vicinity of the site.

3.3 Groundwater

No piezometer or standpipe monitoring record could be found in the vicinity of the site.

4. GEOTECHNICAL CONSIDERATIONS

4.1 Gradient across the Site

The site is located on a level platform at around +21.5mPD with little level difference to be proposed as a temporary open storage area for the construction materials at Lau Fau Shan, Yuen Long.

4.2 Existing Geotechnical Features

Based on the GEO Technical Guidance Note No. 15 (TGN 15) - Guideline for Classification of Consequence-to-Life Category for Slope Features, the slope stability would not affect the proposed development when the facilities are not located within the crest and toe influence zone. The estimated crest influence zone of the feature is 0.4 times the slope height. And for the toe influence zone, the estimation is referred to Figure 1 of TGN 15, and the travel angle for the travel distance of landslide debris is estimated from paragraph 5.2.2 of TGN 15. The area of influence zone would be shown in the Existing Plan in Figure 4. The Sections are shown in Figure 5. Photos of the application Site are shown Photos V1 to V12 and Figure 6 shows the locations where the photos were taken.

Feature No. 2SW-C/C112

The feature is located at the northwestern side outside the site, the application site is located at the crest of this feature, and no works will be carried out within the crest influence zone of the feature. Although a landslip occurred on 13 August 2025, the location of the landslip is at a sufficient distance from the site location. No other signs of distress or instability were found at the portion adjacent to the site during site reconnaissance; it was concluded that the proposed development is geotechnical feasible provided that the boundary of the application site adjacent to the feature is set back 4m to avoid the crest influence zone.

The feature's maximum height is 7.5m, and the crest influence zone of the feature is estimated as 3m away from the slope crest.

Feature No. 2SW-C/C115

This is a U-shaped feature which located adjacent to the eastern boundary of the site. Since the proposed development is a temporary open storage area for construction materials without any structure or building constructed on site, and no foundation works, site formation works, building works, or excavation works will be carried out. Hence, the proposed development is considered to be feasible from a geotechnical point of view.

The cut slope height of the feature is 7.0m. According to Paragraph 5.3.1 in TGN 15, the estimated crest influence zone is not larger than 0.4 times the slope height. It is therefore, the crest influence zone is about 3.0m away from the existing slope crest.

Feature No. 2SW-C/C120

The feature could not be found at the location marked on the plan. However, a retaining wall can be found at around 6m west of the supposed location of the feature. This retaining wall is composed of a maximum of 2 mass concrete blocks and is around 2.5m high. The estimated toe influence zone of said structure is estimated at around 1m and will not cause a stability threat to the application site.

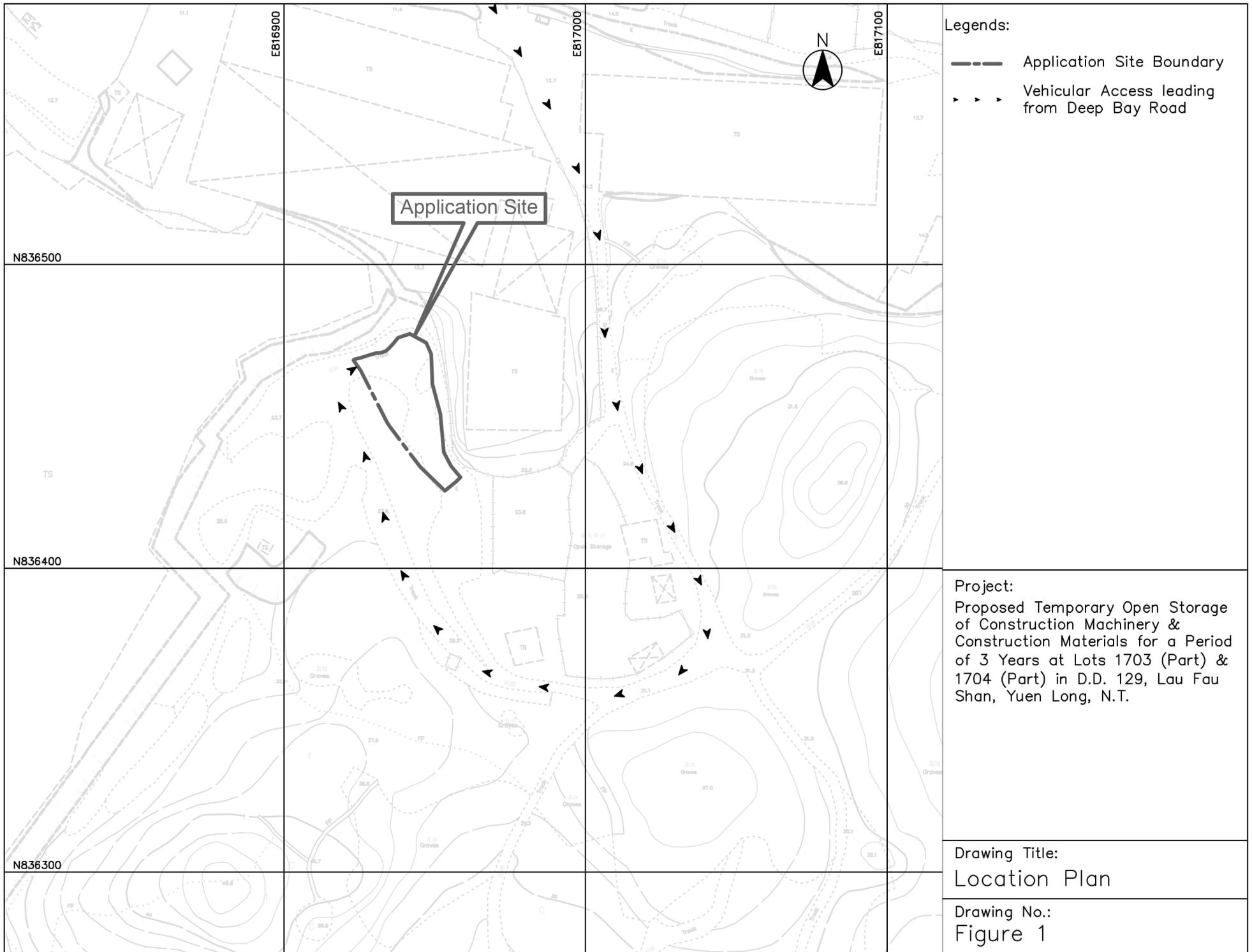
5. DRAINAGE

The application site is sloping at a gentle gradient of approximately 1:50 towards Feature No. 2SW-C/C112. To avoid causing erosion, channels have been designed and provided to collect the rainwater (see Appendix D).

6. CONCLUSION

This report has discussed all the issues concerning the geotechnical planning review under Town Planning Ordinance Section 16 for the captioned project. Since no foundation works, site formation works, building works, or excavation works would be involved in this application, therefore, the stability of existing features would not be affected. In conclusion, the proposed development is considered geotechnical feasible.

FIGURES



Legends:

- Application Site Boundary
- > > > Vehicular Access leading from Deep Bay Road

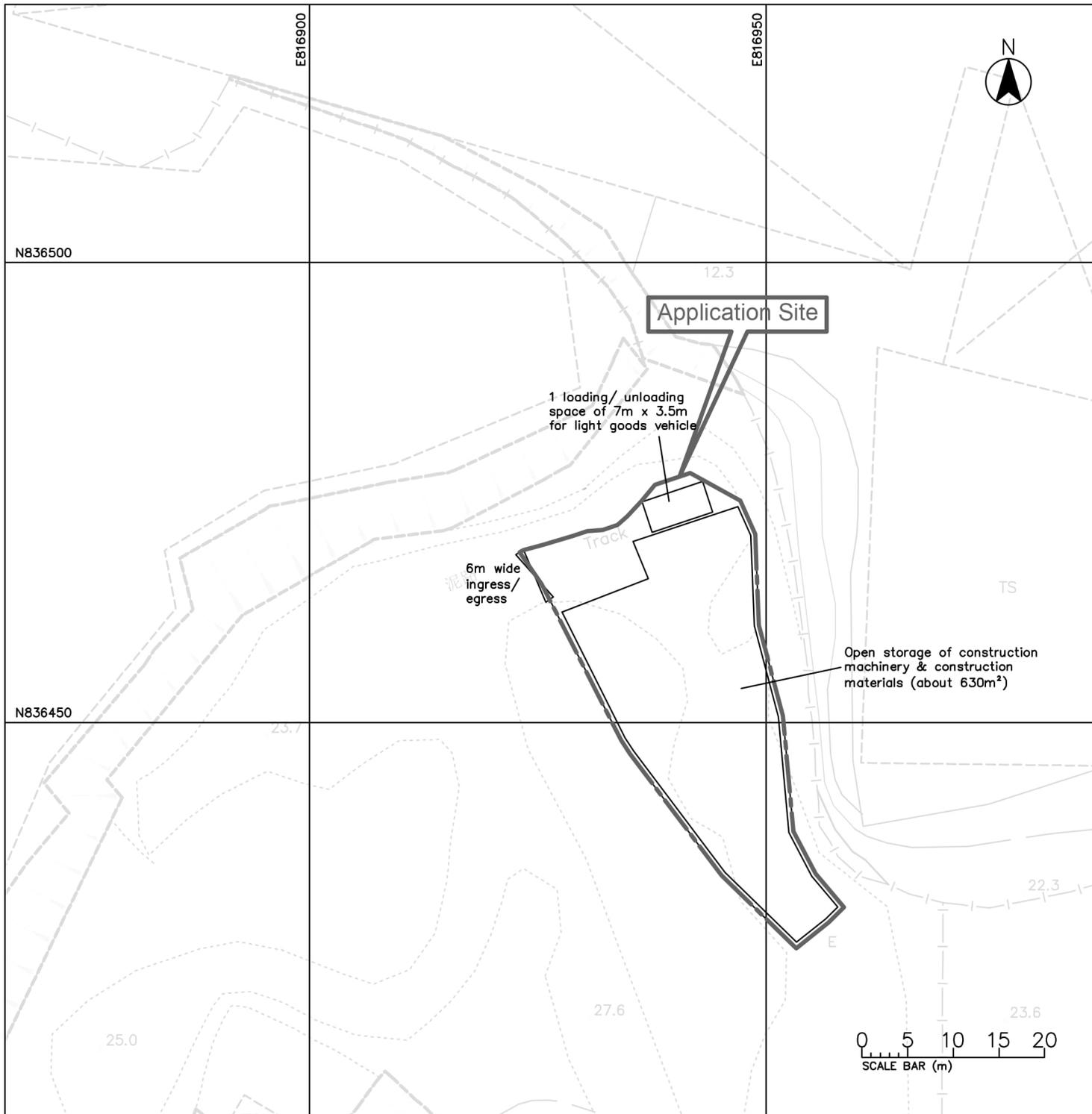


Application Site

Project:
 Proposed Temporary Open Storage
 of Construction Machinery &
 Construction Materials for a Period
 of 3 Years at Lots 1703 (Part) &
 1704 (Part) in D.D. 129, Lau Fau
 Shan, Yuen Long, N.T.

Drawing Title:
 Location Plan

Drawing No.:
 Figure 1

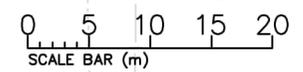


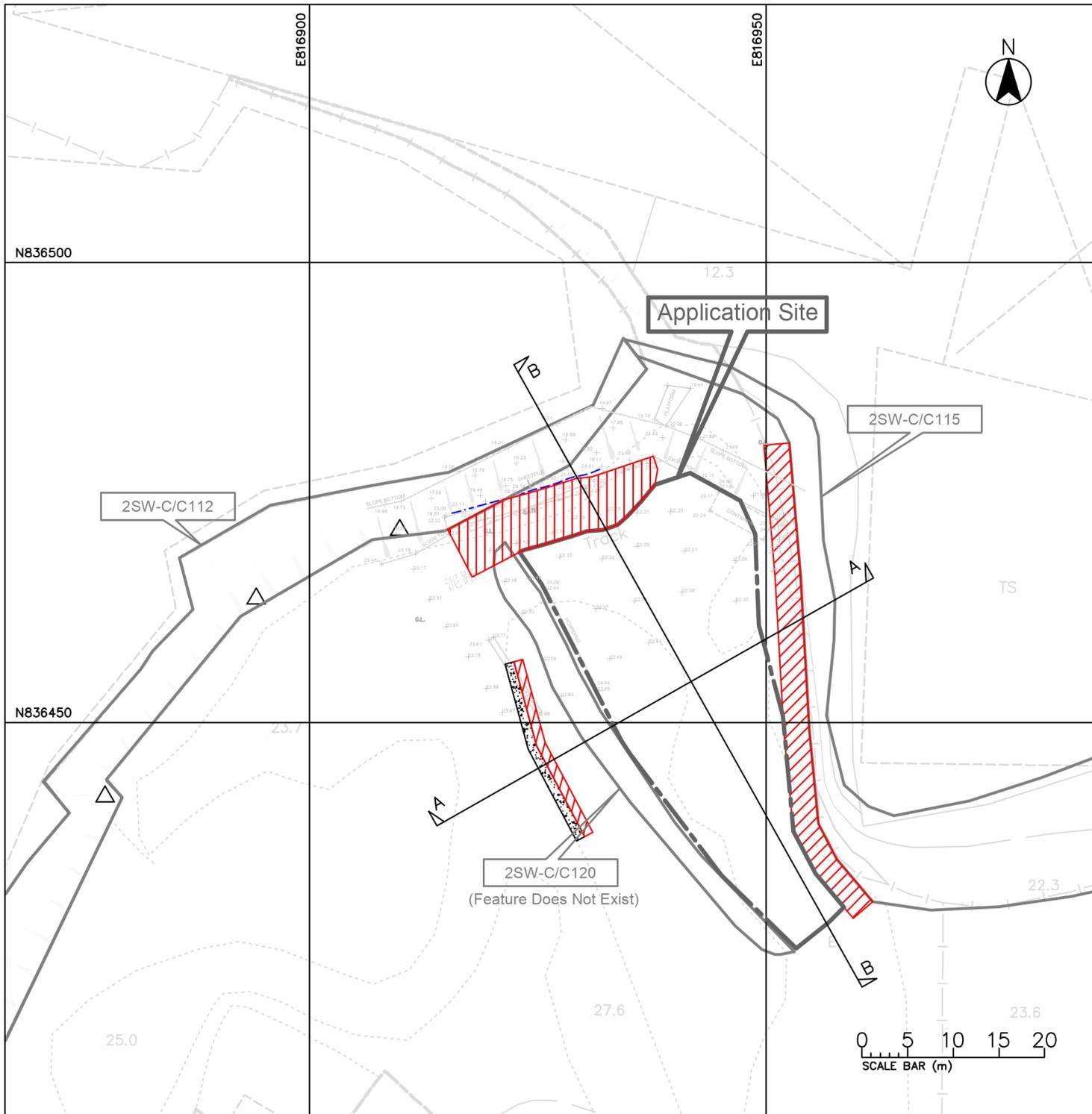
Legends:

Project:
 Proposed Temporary Open Storage
 of Construction Machinery &
 Construction Materials for a Period
 of 3 Years at Lots 1703 (Part) &
 1704 (Part) in D.D. 129, Lau Fau
 Shan, Yuen Long, N.T.

Drawing Title:
 Layout Plan

Drawing No.:
 Figure 2



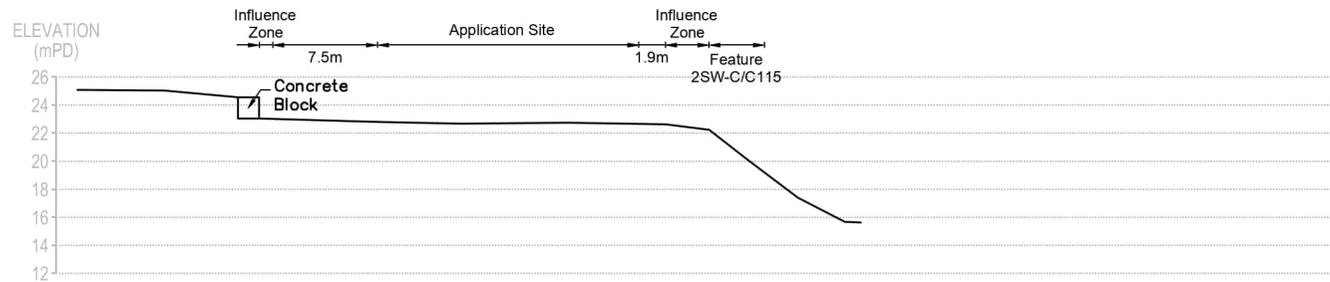


- Legends:
-  Landslide scar
 -  Crest/Toe Influence Zone
 -  Existing Sheet Pile
 -  Existing Concrete Block
 -  Application Site Boundary

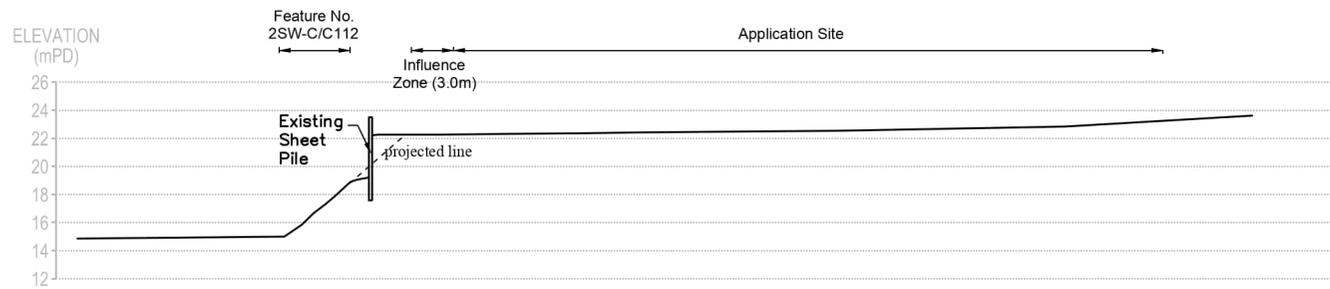
Project:
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 of Construction Machinery &
 Construction Materials for a Period
 of 3 Years at Lots 1703 (Part) &
 1704 (Part) in D.D. 129, Lau Fau
 Shan, Yuen Long, N.T.

Drawing Title:
 Existing Plan

Drawing No.:
 Figure 4



Section A-A



Section B-B

Legends:

Project:

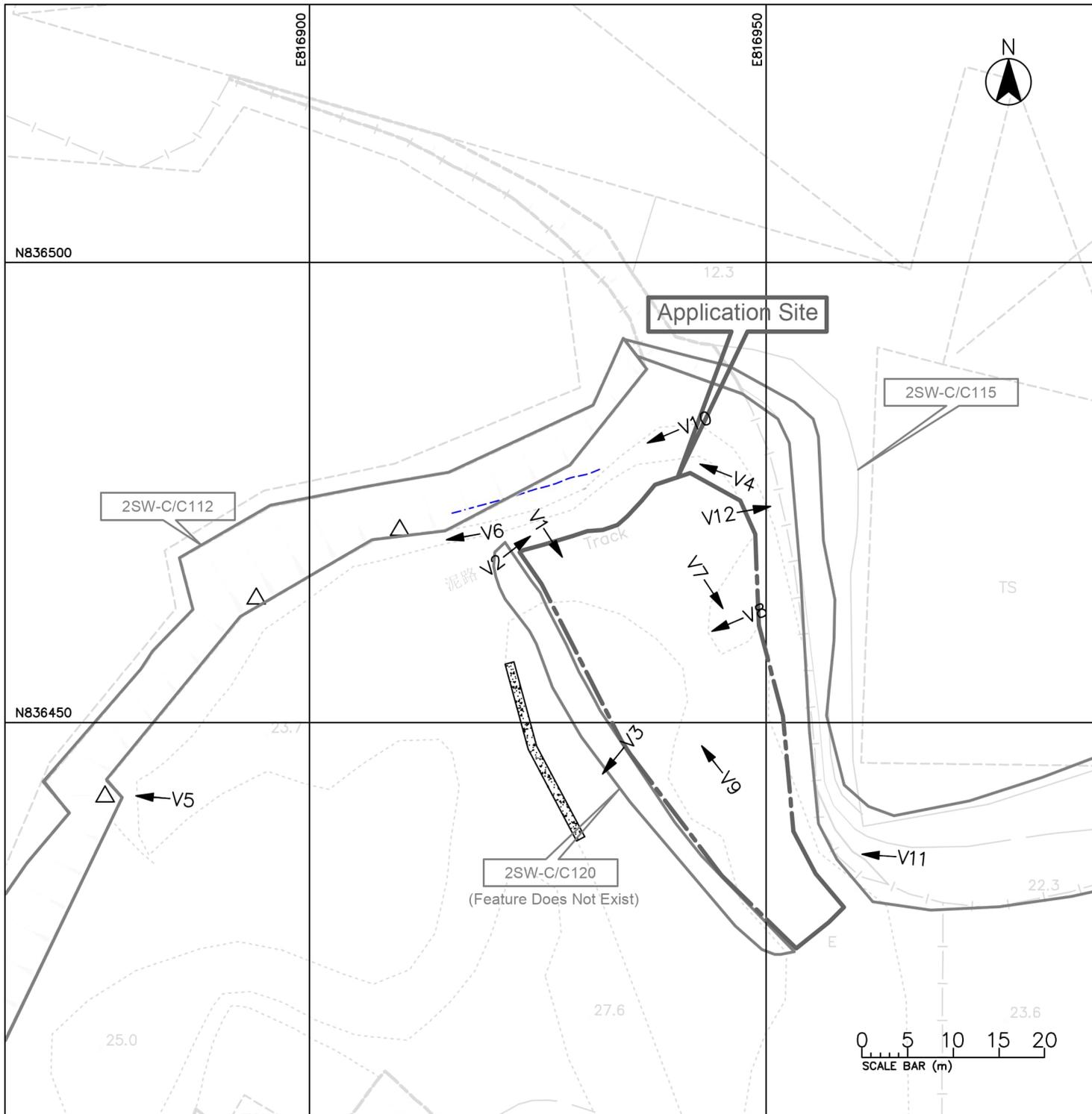
Proposed Temporary Open Storage of Construction Machinery & Construction Materials for a Period of 3 Years at Lots 1703 (Part) & 1704 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, N.T.

Drawing Title:

Sections

Drawing No.:

Figure 5

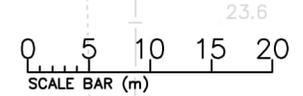


- Legends:
-  Landslide scar
 -  Existing Sheet Pile
 -  Existing Concrete Block
 -  Application Site Boundary
 -  V1 → Direction of Photo Taken

Project:
 Proposed Temporary Open Storage
 of Construction Machinery &
 Construction Materials for a Period
 of 3 Years at Lots 1703 (Part) &
 1704 (Part) in D.D. 129, Lau Fau
 Shan, Yuen Long, N.T.

Drawing Title:
 Photo Plan

Drawing No.:
 Figure 6





<p>Project 項目名稱: Proposed Temporary Open Storage of Construction Machinery & Construction Materials for a Period of 3 Years at Lots 1703 (Part) & 1704 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, N.T.</p>	<p>Drawing Title 圖目: Hong Kong Geological Map Sheet No. 2</p> <p>Drawing No. 圖號: Figure 7</p>	<p>Remarks 備註:</p> <p>Scale 比例: 1:20000</p>
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PLATES

RECORD PHOTOGRAPHS



Photo V1 - General view of the site (western side)



Photo V2 - General view of the site (the north side)

RECORD PHOTOGRAPHS



Photo V3 - General view of Feature 2SW-C/C120



Photo V4 - General view of the site

RECORD PHOTOGRAPHS



Photo V5 - Landslide scar



Photo V6 - Landslide scar

RECORD PHOTOGRAPHS



Photo V7 - General view of the site



Photo V8 - General view of the site

RECORD PHOTOGRAPHS



Photo V9 - General view of the site



Photo V10 - General view of the site (the north side)

RECORD PHOTOGRAPHS



Photo V11 - General view of the Feature 2SW-C/C115

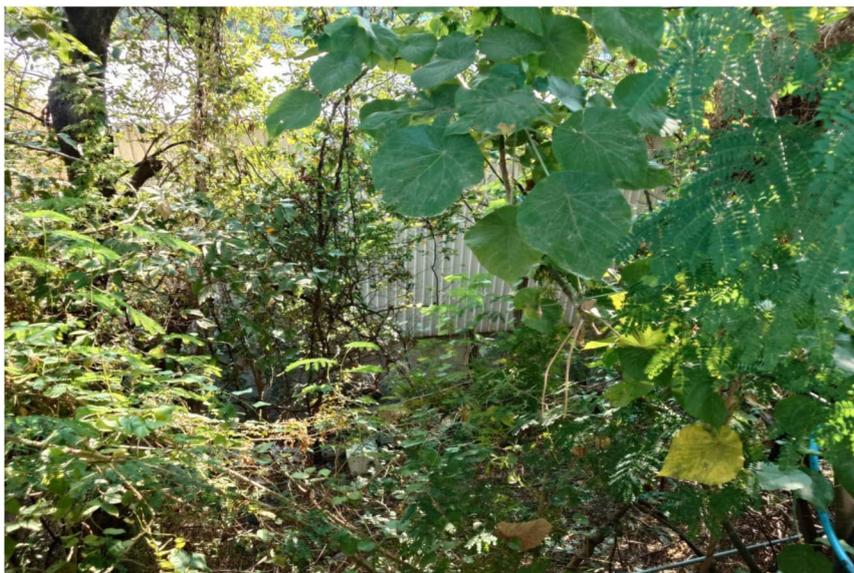


Photo V12 - General view of the Feature 2SW-C/C115

APPENDIX A

SIS FOR REGISTERED FEATURES IN THE VICINITY OF THE SITE

BASIC INFORMATION

Location: PERIMETER OF OPEN STORAGE AREA(CONTAINER), NEAR SAN HING TSUEN, LAU FAU SHAN, YUEN LONG
Registration Date: 06-05-1998
Ranking Score (NPRS): 1102 (LPMit)
Date of Formation: post-1977
Date of Construction/ Modification:
Data Source: SIRST
Approximate Coordinates: Easting : 816882 Northing : 836453

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt
Distance of Facility from Crest (m): 0
Facility at Toe: Other thinly populated buildings
Distance of Facility from Toe (m): 1
Consequence-to-life Category: 1
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 9 Length (m): 155 Average Angle (deg): 54

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Mixed Feature	Party: DD129 LOT 1710	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(2) Sub Div.: 2	Mixed Feature	Party: DD129 LOT 1711	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(3) Sub Div.: 3	Mixed Feature	Party: DD129 LOT 1712	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(4) Sub Div.: 4	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 5b(vi)	Reason Code: 62	MR Endorsement Date: 29-08-2025
(5) Sub Div.: 5	Mixed Feature	Party: DD129 LOT 2279 S.B	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(6) Sub Div.: 6	Mixed Feature	Party: DD129 LOT 2280	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(7) Sub Div.: 7	Mixed Feature	Party: DD129 LOT 2285	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(8) Sub Div.: 8	Mixed Feature	Party: DD129 LOT 2296	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025
(9) Sub Div.: 9	Mixed Feature	Party: DD129 LOT 2284	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 29-08-2025

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 26-02-1998
Data Source: SIRST
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: 70 Vegetated: 30 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: Decomposed granite
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.: 2SW22C2
Map Sheet Reference (1:1000): 2SW-22C
Aerial Photos: A 24264 (1990), A24265 (1990)
Nearest Rainguage Station (Station Number): Hong Shui House, Shui Pin Wai Estate(N12)
Data Collected On: 26-02-1998
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1990 After: 1988
Related Reports/Files or Documents: N/A
Remarks: N/A
Follow Up Actions: N/A
DH-Order (To Be Confirmed with Buildings Department): None
Advisory Letter (To Be Confirmed with Buildings Department): Date of Recommendation to BD: N/A File Reference: N/A
Date Served by BD: 29/11/2019
Date of Recommendation to BD: N/A File Reference: N/A
Date Served by BD: 29/11/2019
LPMIS: Agreement No.: CE50/2017 Report No.: S2R069/2018

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 21/11/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Other thinly populated buildings

Distance from Toe(m): 1

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.:	2SW-C/C 112
Location:	PERIMETER OF OPEN STORAGE AREA(CONTAINER), NEAR SAN HING TSUEN, LAU FAU SHAN, YUEN LONG
District Council:	Yuen Long
Maintenance Responsibility (At the Time of Selection):	Private
Responsible Party for Maintenance of Government Portion:	N/A
Private Lot No.:	DD129 Lot1710,DD129 Lot1711,DD129 Lot1712,DD129 Lot2279B,DD129 Lot2280,DD129 Lot2285,DD129 Lot2296,DD129 Lot2812DRP

LPM/LPMit Study

Agreement No.:	CE50/2017
Study Type:	Stage 2 Study
Consultant:	C M Wong & Associates Ltd.
GEO Managing Section / Engineer:	SS / SS2
Study Status:	Study completed
Design Approach:	N/A
Option Assessment Accepted:	N
Study Report No.:	S2R069/2018
Programme / Actual Commencement:	07-09-2018
Programme / Actual Completion:	29-11-2019
Report Recommendation (For Stage 2 Study):	Advisory Letter, No action required
District Check Status:	N/A
Checking Certificate No.:	N/A
GEO Engineer's Remarks:	Advisory Letters for sub-division 6 & 7 issued on 29/11/2019.

LPM/LPMit Works

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





BASIC INFORMATION

Location: Behind stone cutting storage yard, near Lau Fau Shan
Registration Date: 06-05-1998
Ranking Score (NPRS): 0 (EI)
Date of Formation: pre-1977
Date of Construction/ Modification:
Data Source: EI
Approximate Coordinates: Easting : 816984 Northing : 836438

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Road/footpath with low traffic density
Distance of Facility from Crest (m): 0
Facility at Toe: Non-dangerous goods storage site
Distance of Facility from Toe (m): 0
Consequence-to-life Category: 3
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 7 Length (m): 160 Average Angle (deg): 60

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 1	Mixed Feature	Party: DD129 LOT 1710	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(2) Sub Div.: 2	Mixed Feature	Party: DD129 LOT 1711	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(3) Sub Div.: 3	Mixed Feature	Party: Lands D	Agent: Lands D	Land Cat.: 5b(vi)	Reason Code: 59,62	MR Endorsement Date: 27-09-2021
(4) Sub Div.: 4	Mixed Feature	Party: DD129 LOT 1706	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(5) Sub Div.: 5	Mixed Feature	Party: DD129 LOT 1705 S.B	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(6) Sub Div.: 6	Mixed Feature	Party: DD129 LOT 1705 S.A	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(7) Sub Div.: 7	Mixed Feature	Party: DD129 LOT 1701	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(8) Sub Div.: 8	Mixed Feature	Party: DD129 LOT 1703	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021
(9) Sub Div.: 9	Mixed Feature	Party: DD129 LOT 1704	Agent: N/A	Land Cat.: 1	Reason Code: 1	MR Endorsement Date: 27-09-2021

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 07-11-2001
Data Source: EI
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)

Surface Protection (%): Bare: 0 Vegetated: 100 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: Decomposed granite
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

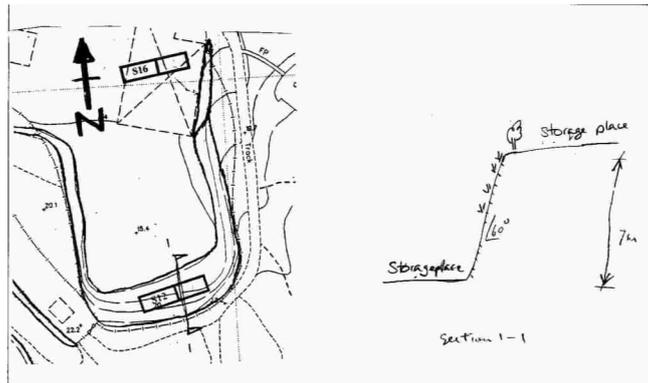
GIU Cell Ref.: 2SW22C2
Map Sheet Reference (1:1000): 2SW-22C
Aerial Photos: 9874 (1974), 9875 (1974)
Nearest Rainguage Station (Station Number): Hong Shui House, Shui Pin Wai Estate(N12)
Data Collected On: 07-11-2001
Date of Construction, Subsequent Modification and Demolition: Modification: Constructed Before: 1973 After: 1963
Related Reports/Files or Documents: N/A
Remarks: N/A
Follow Up Actions: N/A
DH-Order (To Be Confirmed with Buildings Department): None
Advisory Letter (To Be Confirmed with Buildings Department): None
LPMIS: None

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 21/11/2025)

STAGE 1 STUDY REPORT

Inspected On: 26-02-1998
 Weather: Some Rain
 District: MW



Section No: 1-1
 Height(m): H1 : 7 , H2 : 0
 Type of Toe Facility: Non-dangerous goods storage site
 Distance from Toe(m): 0
 Type of Crest Facility: Road/footpath with low traffic density
 Distance from Crest(m): 0
 Consequence Category: 3
 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: 3
 Engineering Judgement: P
 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

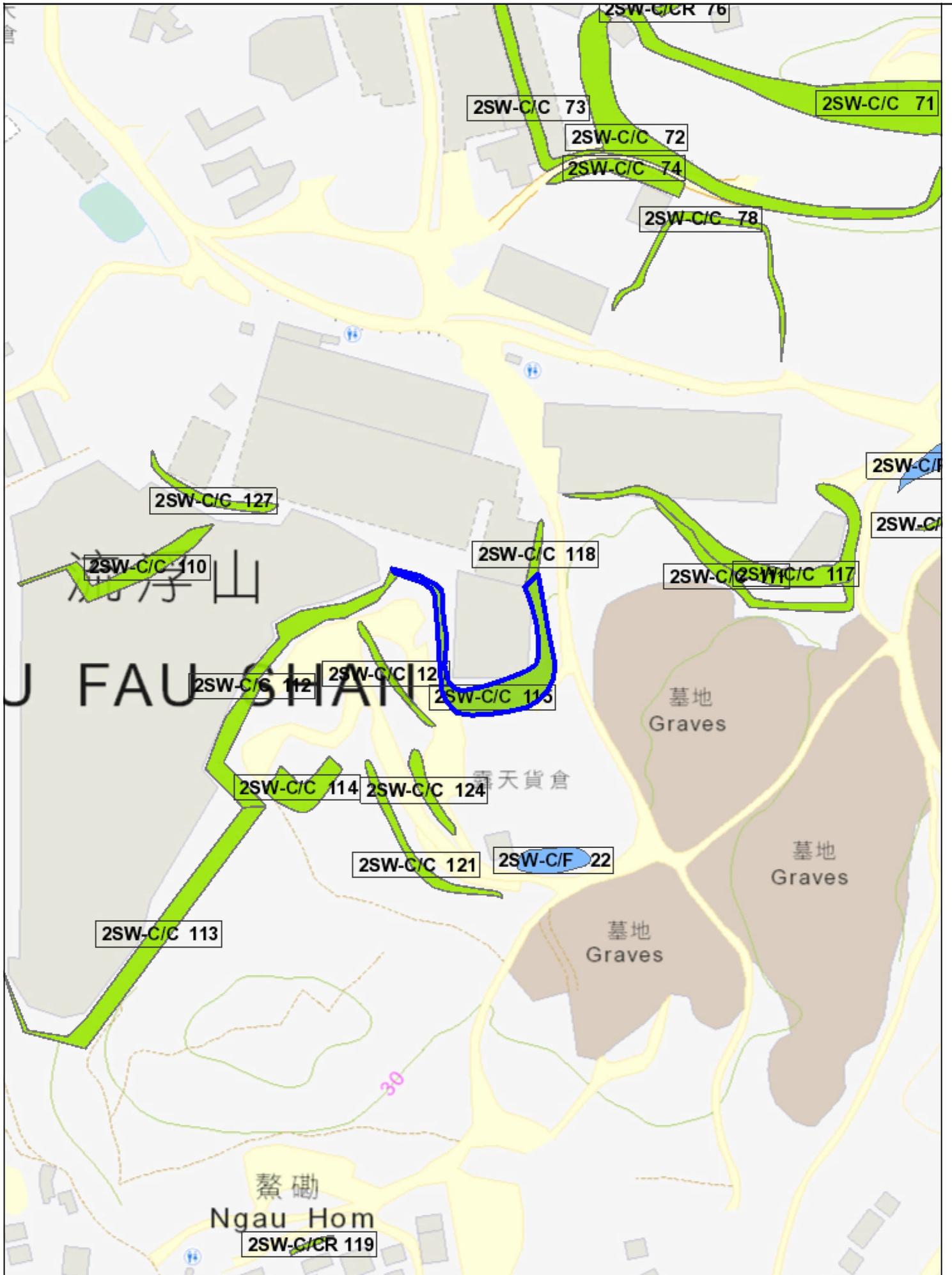
Criterion A/Criterion D: N/A
Action By: N/A
Further Study: Y
Action By: Mixed

OTHER EXTERNAL ACTION

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

PHOTO





BASIC INFORMATION

Location: 250M NORTH OF NGAU HOM, LAU FAU SHAN, YUEN LONG
Registration Date: 06-05-1998
Ranking Score (NPRS): 0 (Notional)
Date of Formation: post-1977
Date of Construction/ Modification:
Data Source: SIRST
Approximate Coordinates: Easting : 816933 Northing : 836446

CONSEQUENCE-TO-LIFE CATEGORY

Facility at Crest: Undeveloped green belt
Distance of Facility from Crest (m): 0
Facility at Toe: Non-dangerous goods storage site
Distance of Facility from Toe (m): 1
Consequence-to-life Category: 3
Remarks: N/A

SLOPE PART

(1) Max. Height (m): 3 Length (m): 55 Average Angle (deg): 55

WALL PART

N/A

MAINTENANCE RESPONSIBILITY

(1) Sub Div.: 0 Private Feature Party: DD129 Lot1702 Agent: N/A Land Cat.: 1 Reason Code: 1 MR Endorsement Date: 01-09-1998

DETAILS OF SLOPE / RETAINING WALL

Date of Inspection: 26-02-1998
Data Source: SIRST
Slope Part Drainage: N/A
Wall Part Drainage: N/A

SLOPE PART

Slope Part (1)
Surface Protection (%): Bare: 0 Vegetated: 100 Chunam: 0 Shotcrete: 0 Other Cover: 0
Material Description: Material type: Soil Geology: Decomposed granite
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.:	2SW22C2
Map Sheet Reference (1:1000):	2SW-22C
Aerial Photos:	55758 (1984), 55759 (1984)
Nearest Rainguage Station (Station Number):	Hong Shui House, Shui Pin Wai Estate(N12)
Data Collected On:	26-02-1998
Date of Construction, Subsequent Modification and Demolition:	Modification: Constructed Before: 1984 After: 1981
Related Reports/Files or Documents:	N/A
Remarks:	N/A
Follow Up Actions:	N/A
DH-Order (To Be Confirmed with Buildings Department):	None
Advisory Letter (To Be Confirmed with Buildings Department):	None
LPMIS:	None

ENHANCED MAINTENANCE INFORMATION

From Maintenance Department: (Last Updated Date: 21/11/2025)

STAGE 1 STUDY REPORT

Inspected On:

Weather:

District: MW

Section No: 1-1

Height(m):

Type of Toe Facility: Non-dangerous goods storage site

Distance from Toe(m): 1

Type of Crest Facility: Undeveloped green belt

Distance from Crest(m): 0

Consequence Category:

Engineering Judgement:

Section No: 2-2

Type of Toe Facility:

Distance from Toe(m):

Type of Crest Facility:

Distance from Crest(m):

Consequence Category:

Engineering Judgement:

Sign of Seepage:

Criterion A satisfied:

Sign of Distress:

Criterion D satisfied:

Non-routine maintenance required:

Note:

Masonry wall/Masonry facing:

Note:

Consequence category (for critical section):

Observations: N/A

Emergency Action Required:

Action By: N/A

ACTION TO INITIATE PREVENTIVE WORKS

Criterion A/Criterion D: N/A

Action By: N/A

Further Study:

Action By: N/A

OTHER EXTERNAL ACTION

Check / repair Services:

Action By: N/A

Non-routine Maintenance:



Action By:

N/A

PHOTO



2SW-C/C 120 GENERAL VIEW F18



APPENDIX B

SIMAR FOR REGISTERED FEATURES IN THE VICINITY OF THE SITE

Slope Maintenance Responsibility Report

(2SW-C/C112)


ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT
List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C112		Sub-Division	1
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 1710	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
2	2SW-C/C112		Sub-Division	2
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 1711	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
3	2SW-C/C112		Sub-Division	3
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 1712	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
4	2SW-C/C112		Sub-Division	4
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	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.		
5	2SW-C/C112		Sub-Division	5
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 2279 S.B	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

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6	2SW-C/C112		Sub-Division	6
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 2280	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
7	2SW-C/C112		Sub-Division	7
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 2285	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
8	2SW-C/C112		Sub-Division	8
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 2296	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		
9	2SW-C/C112		Sub-Division	9
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1712, LOT 2279 S.B, LOT 2280, LOT 2285, LOT 2296, LOT 2284 and partly within unallocated Government land, Lau Fau Shan, Yuen Long		
	Responsible Lot/Party	DD129 LOT 2284	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

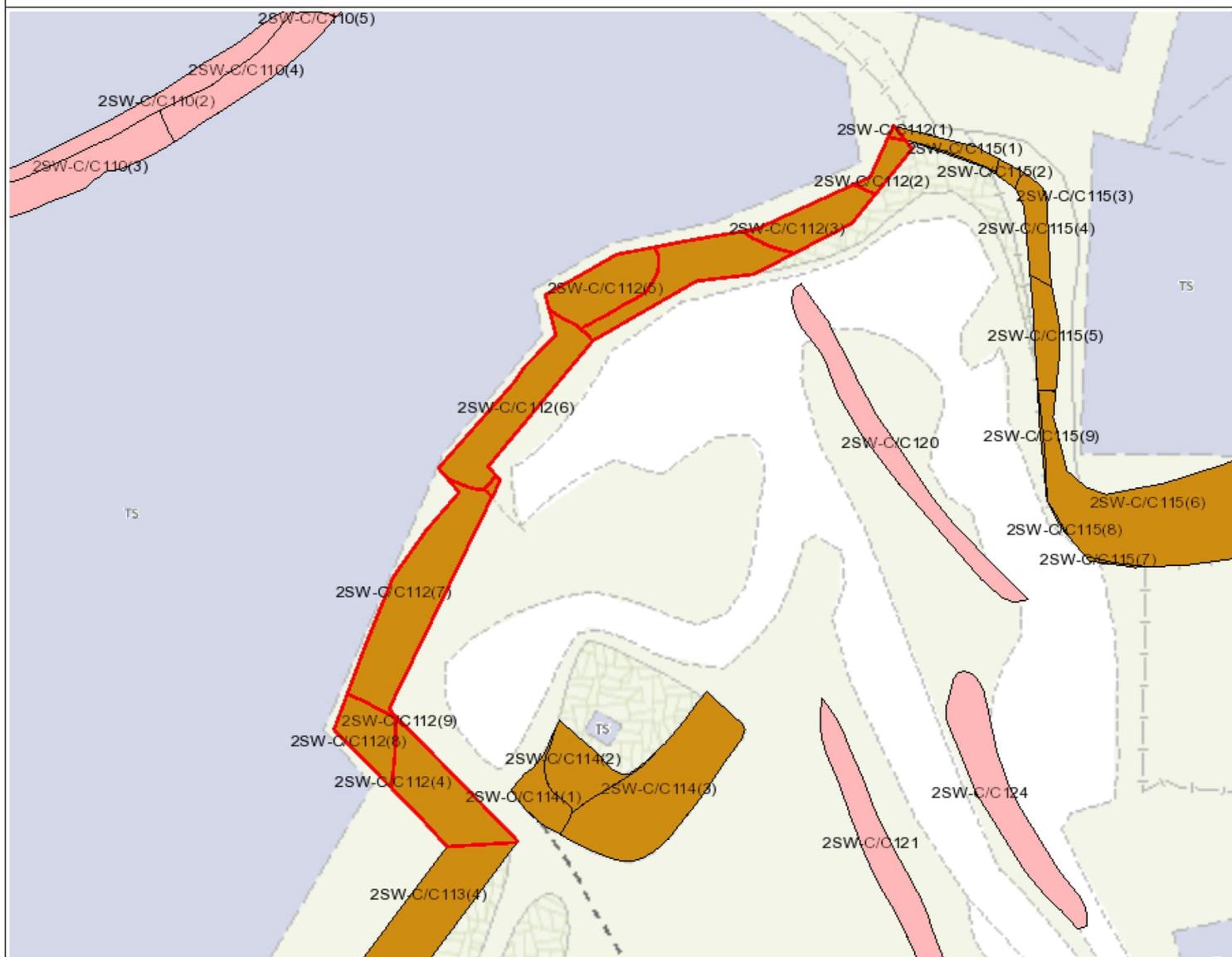
- End of Report -

Notes:

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- (ii) The slope(s) as listed in the Slope Maintenance Responsibility Report may not be shown on the location plan in Annex.

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Location Plan



Legend

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



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

This Plan is **NOT TO SCALE** and intended for **IDENTIFICATION** only. All information shown on this plan **MUST** be verified by field survey.

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Slope Maintenance Responsibility Report

(2SW-C/C115)


ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT
List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C115		Sub-Division	1
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1710	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
2	2SW-C/C115		Sub-Division	2
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1711	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
3	2SW-C/C115		Sub-Division	3
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	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.		
4	2SW-C/C115		Sub-Division	4
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1706	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
5	2SW-C/C115		Sub-Division	5
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1705 S.B	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

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6	2SW-C/C115		Sub-Division	6
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1705 S.A	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
7	2SW-C/C115		Sub-Division	7
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1701	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
8	2SW-C/C115		Sub-Division	8
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1703	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		
9	2SW-C/C115		Sub-Division	9
	Location	Partly within DD129 LOT 1710, LOT 1711, LOT 1706, LOT 1705 S.B, LOT 1705 S.A, LOT 1704, LOT 1703 and LOT 1701, partly within STT3175 and partly on adjoining Government land		
	Responsible Lot/Party	DD129 LOT 1704	Maintenance Agent	Not Applicable
	Remarks	Slope information being reviewed.		

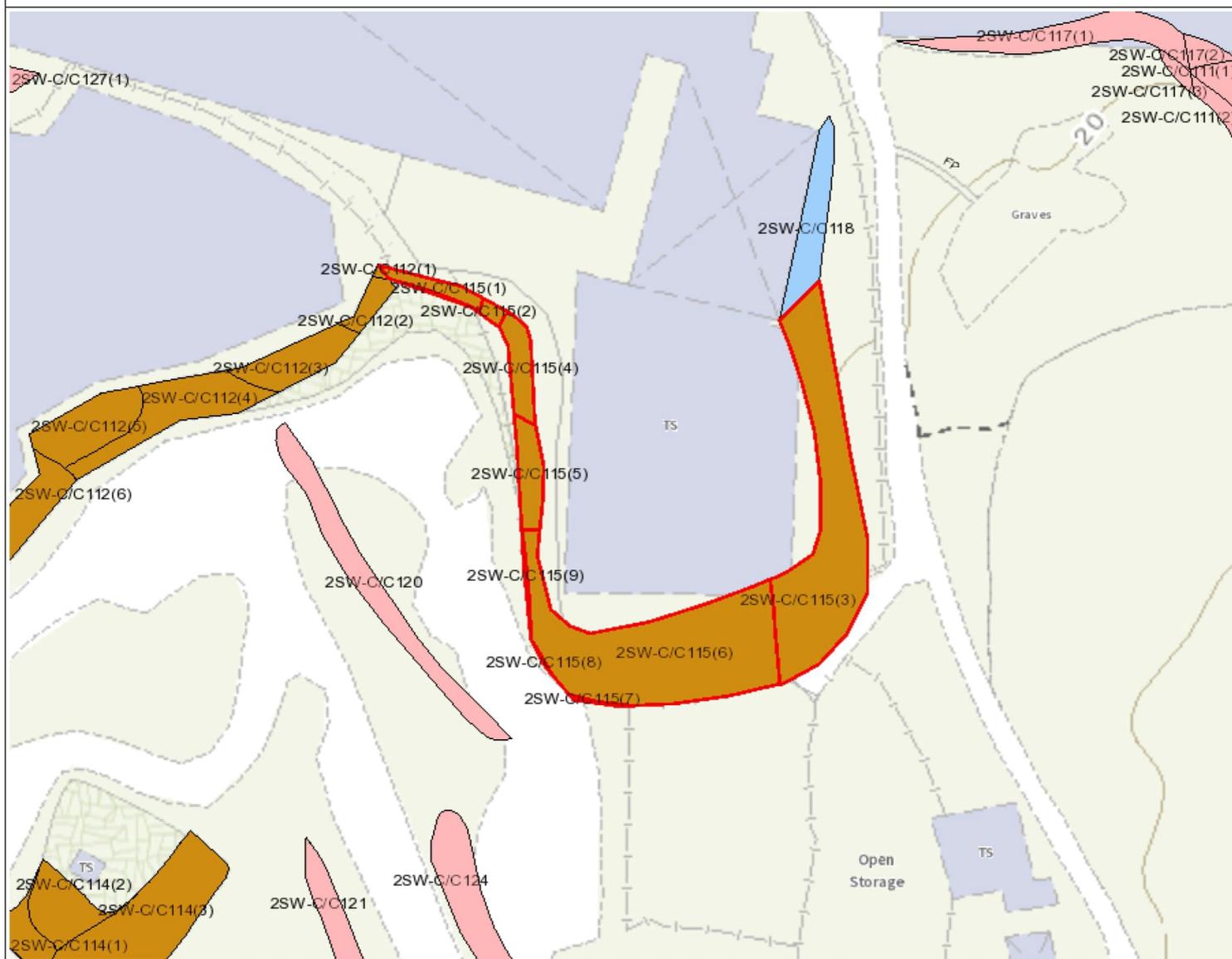
- End of Report -

Notes:

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Location Plan



Legend

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



**ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT**

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Search Criteria: 2SW-C/C115

Slope Maintenance Responsibility Report

(2SW-C/C120)



ESTATE MANAGEMENT SECTION
LANDS DEPARTMENT

List of Slope Maintenance Responsibility Area(s)

1	2SW-C/C120	Sub-Division	Not Applicable	
	Location	WITHIN DD129 LOT1702		
	Responsible Lot/Party	DD129 Lot1702	Maintenance Agent	Not Applicable
	Remarks	Not Applicable		

- End of Report -

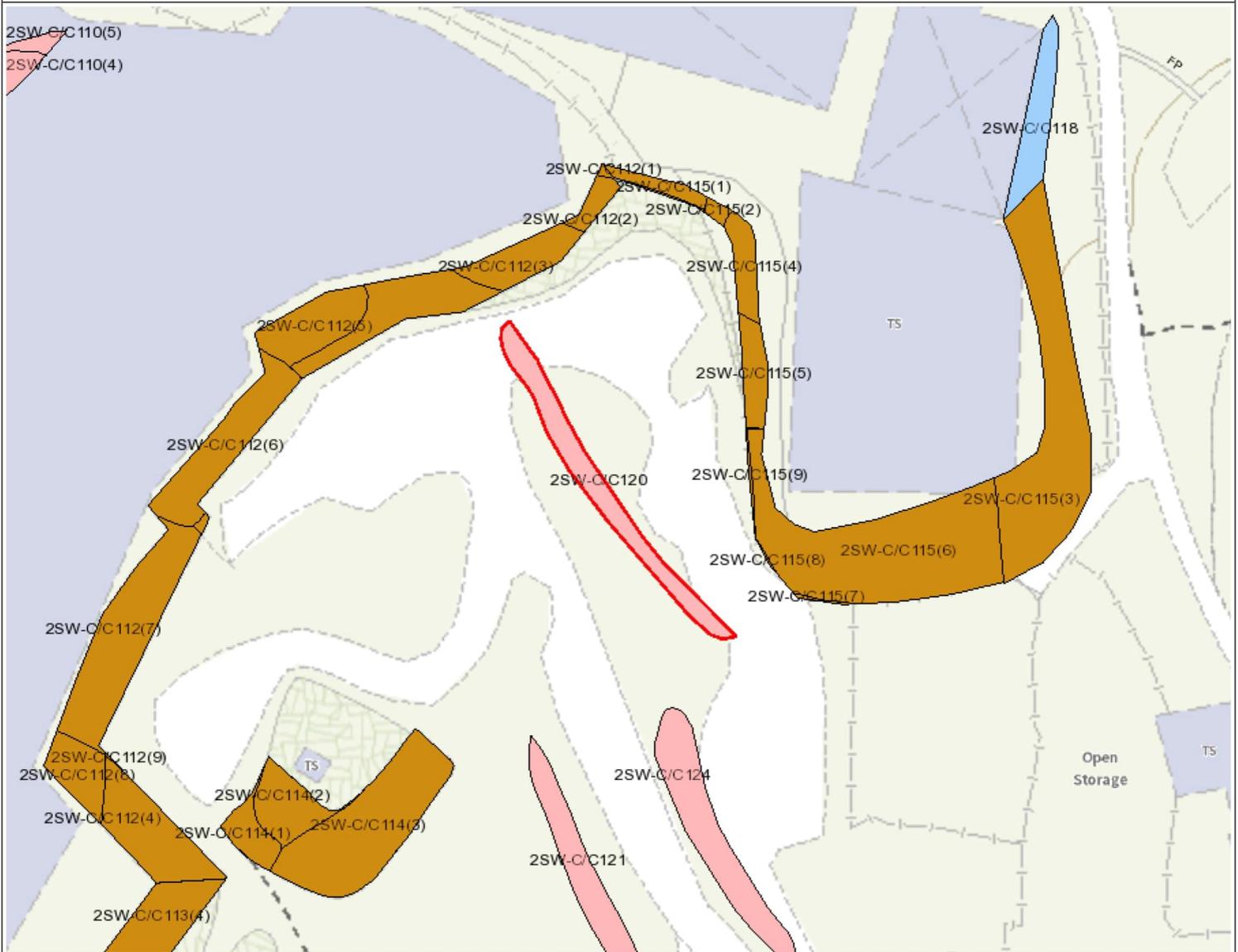
Notes:

- (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: 2SW-C/C120

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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Printed on: 18/12/2025

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APPENDIX B

INCIDENT RECORD FOR REGISTERED FEATURES IN THE VICINITY OF THE SITE



YOUR REF 來函檔號 :

OUR REF 本署檔號 : BD EB-SS-010-015-F02786-P001

FAX 圖文傳真 : 2136 8200

TEL 電話 : 3842 3916

www.bd.gov.hk

21 August 2025

Dear Sir/Madam,

**Emergency Slope Repair Works for
Landslide at Feature No. 2SW-C/C112 (Sub-Division No. 6)
at Lot No. 2280 in D.D. 129
Lau Fau Shan, Yuen Long, New Territories**

Site inspection by staffs of Geotechnical Engineering Office and this Department on 13 August 2025 revealed landslide scars at the captioned feature. A location plan and inspection photos are attached for your easy reference.

2. As Landslide Scar no.3 shown on the location plan rest on your private lot, you are requested to carry out the following emergency slope repair works within your lot immediately:-

- (i) Remove the landslide debris;
- (ii) Remove loose materials on the failure scars and minor trim back the failure surfaces; and
- (iii) Provide hard surface cover with wire mesh and weepholes to the failure surfaces.

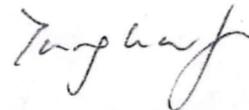
3. The Government Contractor was also instructed on 13 August 2025 to cordon off area in danger behind the failed portions of the captioned feature and cover the failure scars with secured tarpaulin sheet as an emergency, on your behalf under section 27A(4) of the Buildings Ordinance. Pursuant to the same section stated above, the cost of the works in question plus supervision charges shall be recoverable from you as owner(s) under Section 32A, 32B and 33 of the Buildings Ordinance and I shall shortly forward to you a demand note for this purpose.

4. You are requested to appoint an authorized person and a registered geotechnical engineer to undertake the works. If the works involve structural elements, a registered structural engineer shall be appointed. The appointee(s) could be the same person provided that he/she possesses the required qualifications.

P.2/.....

5. To safeguard your interest, you shall carry out site survey to verify your private lot boundary and the landslide scar to determine the portion of the area under your purview that need to repair.
6. This Department has also issued a similar letter to the owners of Lot No. 2812 s.D R.P. in D.D. 129 and Lot No. 2279 s.B in D.D. 129. It would be of mutual benefit for you to liaise with the above owners to co-ordinate the works.
7. You are required to notify on commencement and completion of the recommended emergency slope repair works to this Department. If we have not received your notification on commencement of the works before **1 September 2025**, the Building Authority may instruct the Government Contractor to carry out the necessary emergency works under section 27A(4) of the Buildings Ordinance on your behalf and subsequently recover the cost of the emergency works plus supervision charges from you.
8. To notify on commencement and completion of the works or if you need further information, please contact our Structural Engineer/Slope Safety 7, Mr. LO Ming-kay at 3842 3916 or Survey Officer/Slope Safety 7, Mr. CHAN Kin-wai at 3842 3979.

Yours faithfully,



(TANG Wan-fung)
Senior Structural Engineer/Slope Safety (MW)
for Building Authority

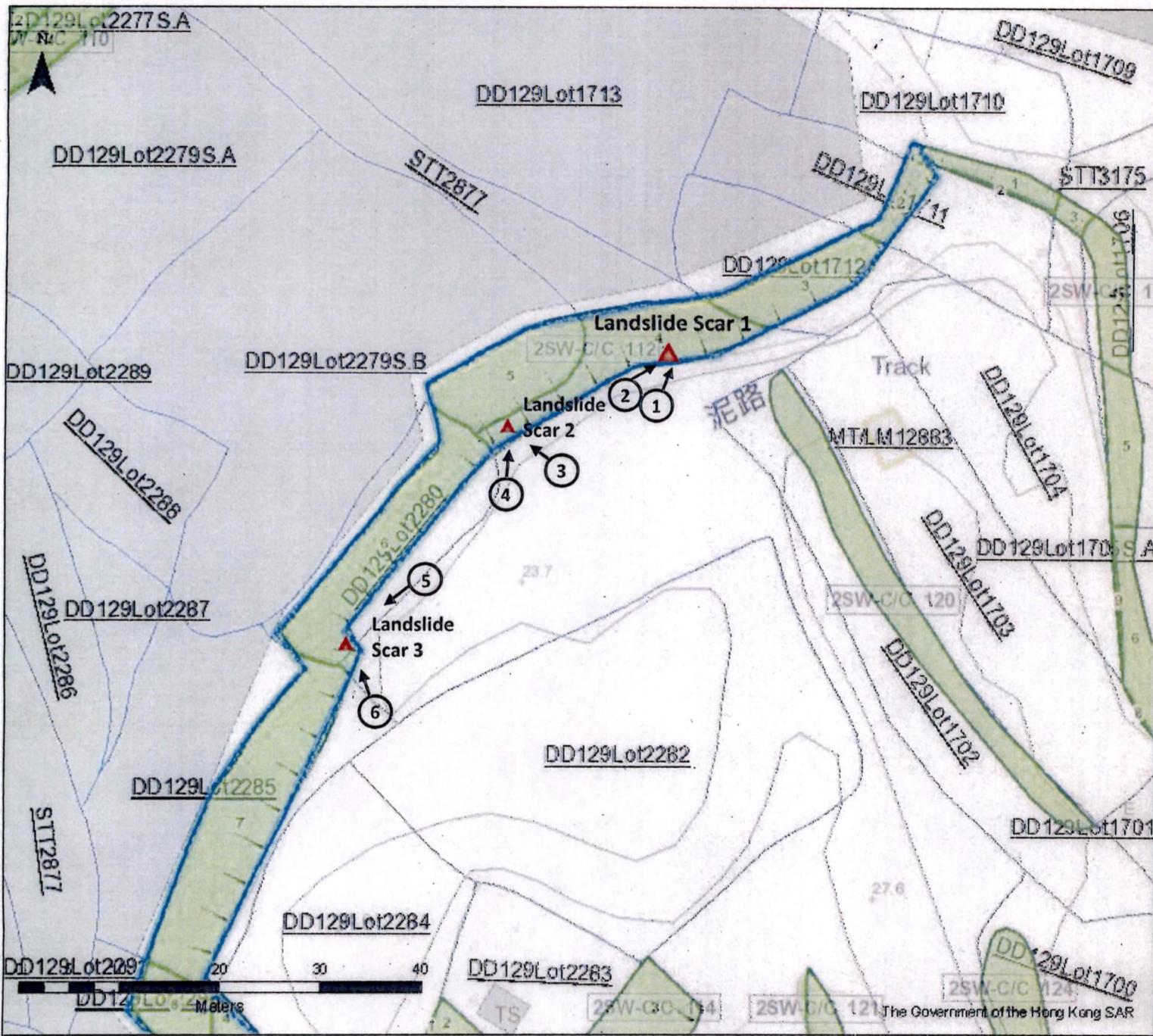
Encl.

c.c. CGE/MW, GEO, CEDD ✓



MW Area 34W BSH-0000

Mainland West Division		ERKS No.
MW-		DL015-F02786
CGE/MW	PTO/M	Due Date
SGE/MW1	STO/MW1	
SGE/MW2	STO/MW2	
SGE/MW3	STO/MW3&5	Following in
SGE/MW4	STO/MW4	Detail
SGE/MW5	STO/MW6	Is this BU item*
SGE/MW6	PSH	RIS Phase I Y / N
SGE/MW7	GR	Type II Y / N
GE 53 wh	GE	Priority Y / N
CC MW-		25W-C/10112



Man-made Features

- Cut slopes
- Disturbed terrain
- Fill slopes
- NT defence measures
- NT stabilisation measures
- Retaining walls

- Approx. location of Landslide Scar
- Maintenance Responsible Party
- 1 Photo reference no. and taken direction

Division	
Scale	N.T.S.
Date	13/08/2025

GEOTECHNICAL ENGINEERING OFFICE

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

PHOTOGRAPHS

File Ref.: Incident No. 2025/08/3982

Location : Feature No. 2SW-C/C112, Perimeter of Open Storage Area near San Hing Tsuen, Lau Fau Shan, Yuen Long



Photo 1 (Landslide Scar 1)



Photo 2 (Landslide Scar 1)

PHOTOGRAPHS

File Ref.: Incident No. 2025/08/3982

Location : Feature No. 2SW-C/C112, Perimeter of Open Storage Area near San Hing Tsuen, Lau Fau Shan, Yuen Long



Photo 3 (Landslide Scar 2)



Photo 4 (Landslide Scar 2)

PHOTOGRAPHS

File Ref.: Incident No. 2025/08/3982

Location : Feature No. 2SW-C/C112, Perimeter of Open Storage Area near San Hing Tsuen, Lau Fau Shan, Yuen Long



Photo 5 (Landslide Scar 3)



Photo 6 (Landslide Scar 3)

Geotechnical Engineering Office

District Division



APPENDIX D

DRAINAGE DESIGN

**Proposed Temporary Open Storage of Construction Machinery & Construction Materials for a Period of 3 Years
at
Lots 1703 (Part) & 1704 (Part) in D.D. 129, Lau Fau Shan, Yuen Long, N.T.**

Annex 1 Drainage Assessment

A. Site particulars

- 1.1.1 The site possesses an area of about 880m². The surface of the site has been hard paved.
- 1.1.2 The application site will be occupied by an open storage of construction machinery such as electric generators and construction materials such as tiles and sanitary wares.

B. Level and gradient of the subject site & proposed surface channel

- 1.1.3 The subject site has been hard paved and occupied an area of approximately 880m². It has a gradient sloping from southwest to northeast from about 23.25 mPD to 22.2 mPD.
- 1.1.4 In order to follow the topography of the application site, the proposed surface channel will be constructed following the gradient of the site. As demonstrated in the calculation in **Annex 1** hereunder, 600mm surface U-channel will be capable to drain surface runoff accrued at the subject site and the same passing through the site from adjacent area.

C. Catchment area of the proposed drainage provision at the subject site

- 1.1.5 With regard to the location of the existing drain and the topography surrounding the application site, the land to the southeast of the site is found higher than the application site. The land to the north and west of the site is found lower than the application site. (**Figure 2**)
- 1.1.6 As such, an external catchment is identified has been identified in **Figure 1**.

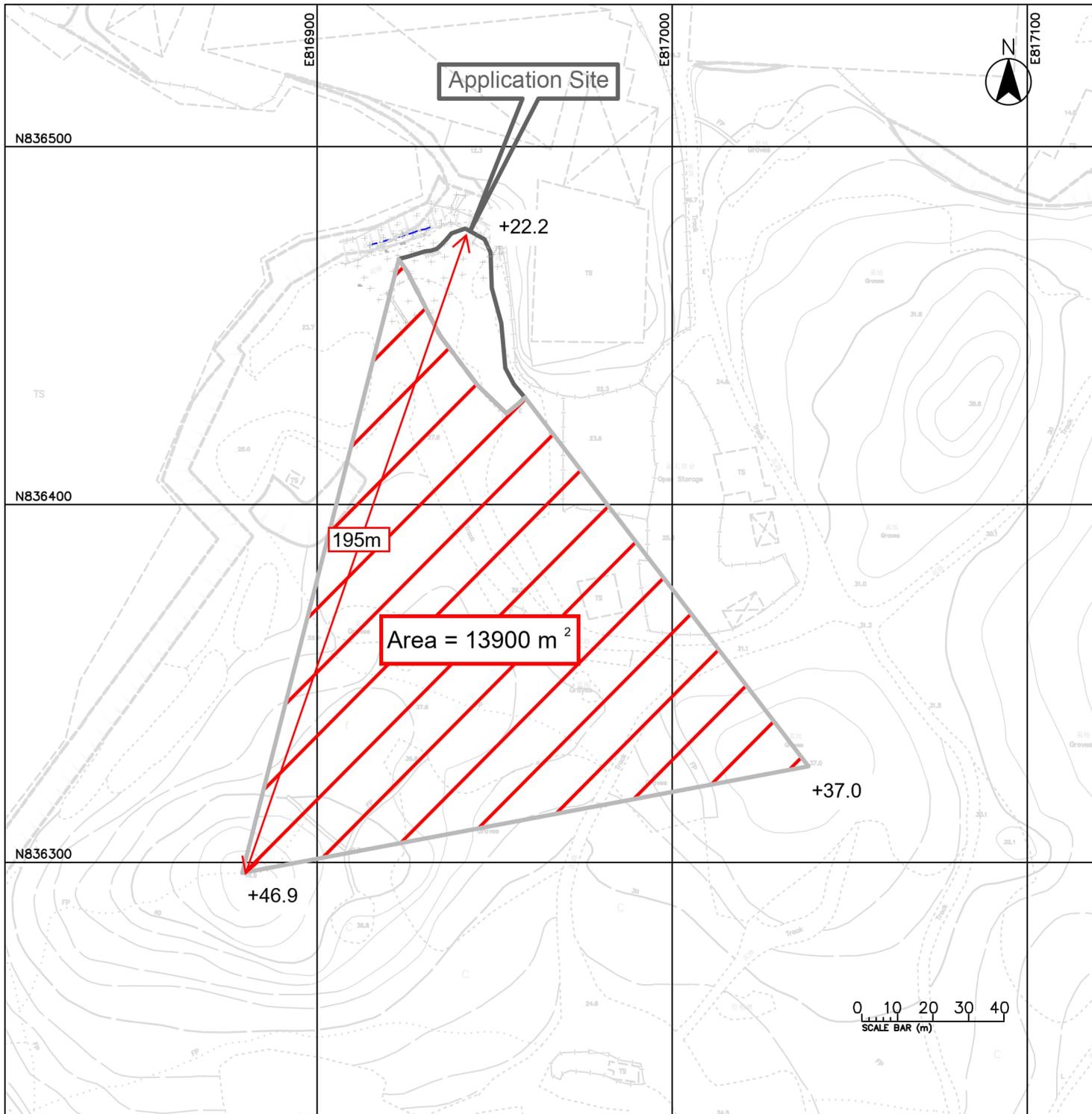
D. Particulars of the existing drainage facilities to accept the surface runoff collected at the application site

- 1.1.7 There is an existing 600mm surface channel surrounding the adjoining site to the immediate north of the application site. The ultimate discharge point is Deep Bay via the public drain connecting to the said 600mm surface channel.

1.2 **Runoff Estimation & Proposed Drainage Facilities**

A. Proposed drainage facilities

- 1.2.1 Subject to the calculations below, it is determined that 600mm surface channel which is made of concrete along the site periphery is adequate to intercept storm water passing through and generated at the application site (**Figure 2**).
- 1.2.2 The collected surface runoff will be conveyed to existing 600mm surface channel to the immediate north of the site. (**Figure 3**) The existing 600mm surface channel is capable to convey additional stormwater generated by the application site and its external catchment because the application site and its external catchment falls coincide with the external catchment of the adjoining site with planning permissions (No. A/YL-LFS/521 & 563) as shown in the discharge path plan.
- 1.2.3 All the proposed drainage facilities will be provided and maintained at the applicant's own expense. Also, sand trap and surface channel will be cleaned at regular interval to avoid the accumulation of rubbish/debris which would affect the dissipation of storm water.
- 1.2.4 The provision of the proposed surface U-channel will follow the gradient of the application site. All the proposed drainage facilities will be constructed and maintained at the expense of the applicant.
- 1.2.5 All proposed works at the site periphery would not obstruct the flow of surface runoff from the adjacent areas, the provision of surface channel at site boundary is detailed hereunder:
- (a) Soil excavation at site periphery, although at minimal scale, is inevitably for the provision of surface channel. In the reason that the accumulation of excavated soil at the site periphery would obstruct the free flow of the surface runoff from the surroundings, the soil will be cleared at the soonest possible after the completion of the excavation process.
 - (b) In view of that soil excavation may be continued for several working days, surface U-channel will be dug in short sections and all soil excavated will be cleared before the excavation of another short section.
 - (c) No leveling work will be carried at the site periphery. The level of the site periphery will be maintained during and after the works. As such, the works at the site periphery would not either alter or obstructed the flow of surface runoff from adjacent areas.
 - (d) 100mm openings will be provided at the toe of hoarding so as to allow unobstructed flow of surface runoff from adjacent area.

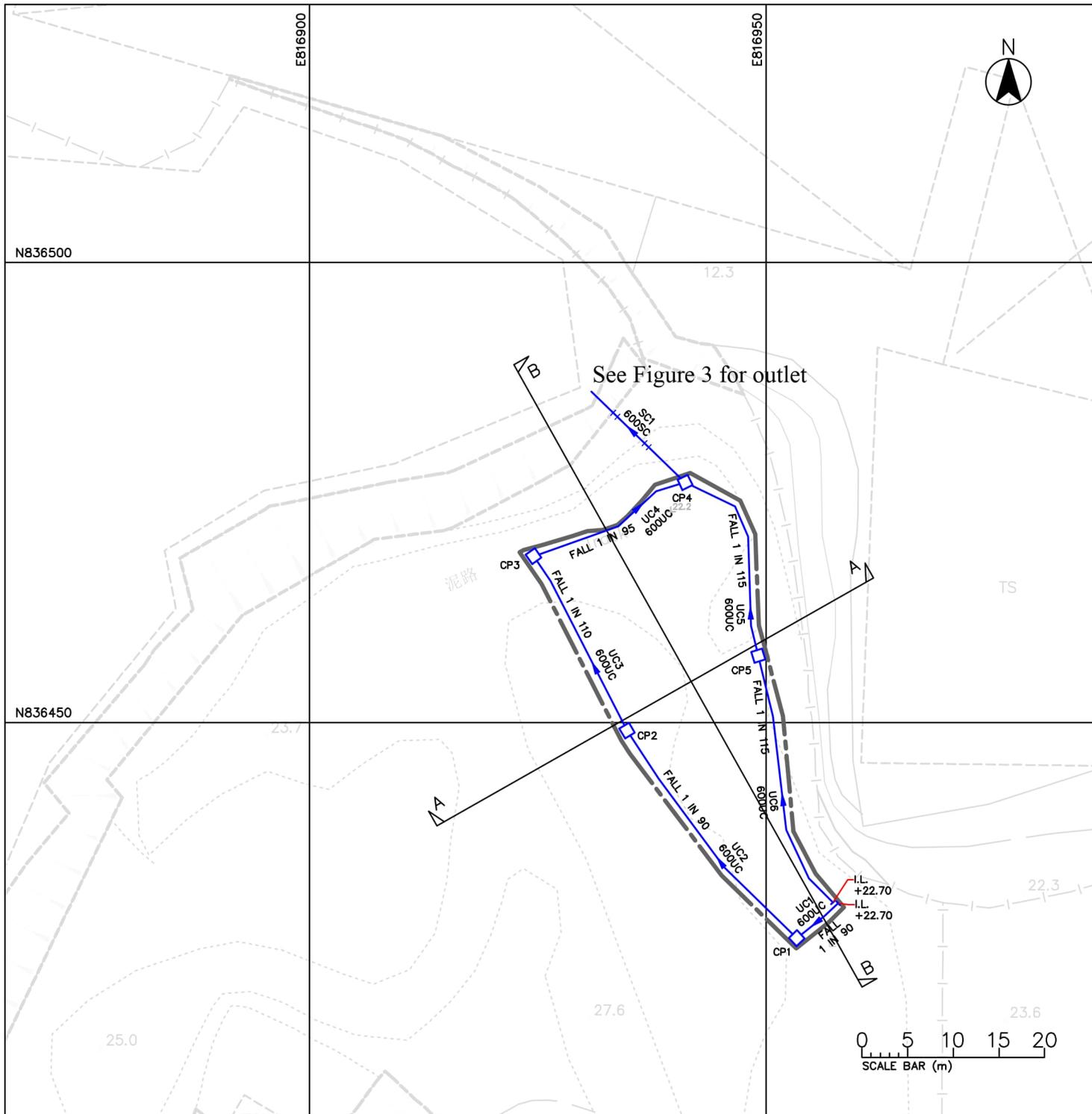


- Legends:
- Application Site Boundary
 - Catchment Area

Project:
 Proposed Temporary Open Storage
 of Construction Machinery &
 Construction Materials for a Period
 of 3 Years at Lots 1703 (Part) &
 1704 (Part) in D.D. 129, Lau Fau
 Shan, Yuen Long, N.T.

Drawing Title:
 Catchment Plan

Figure 1



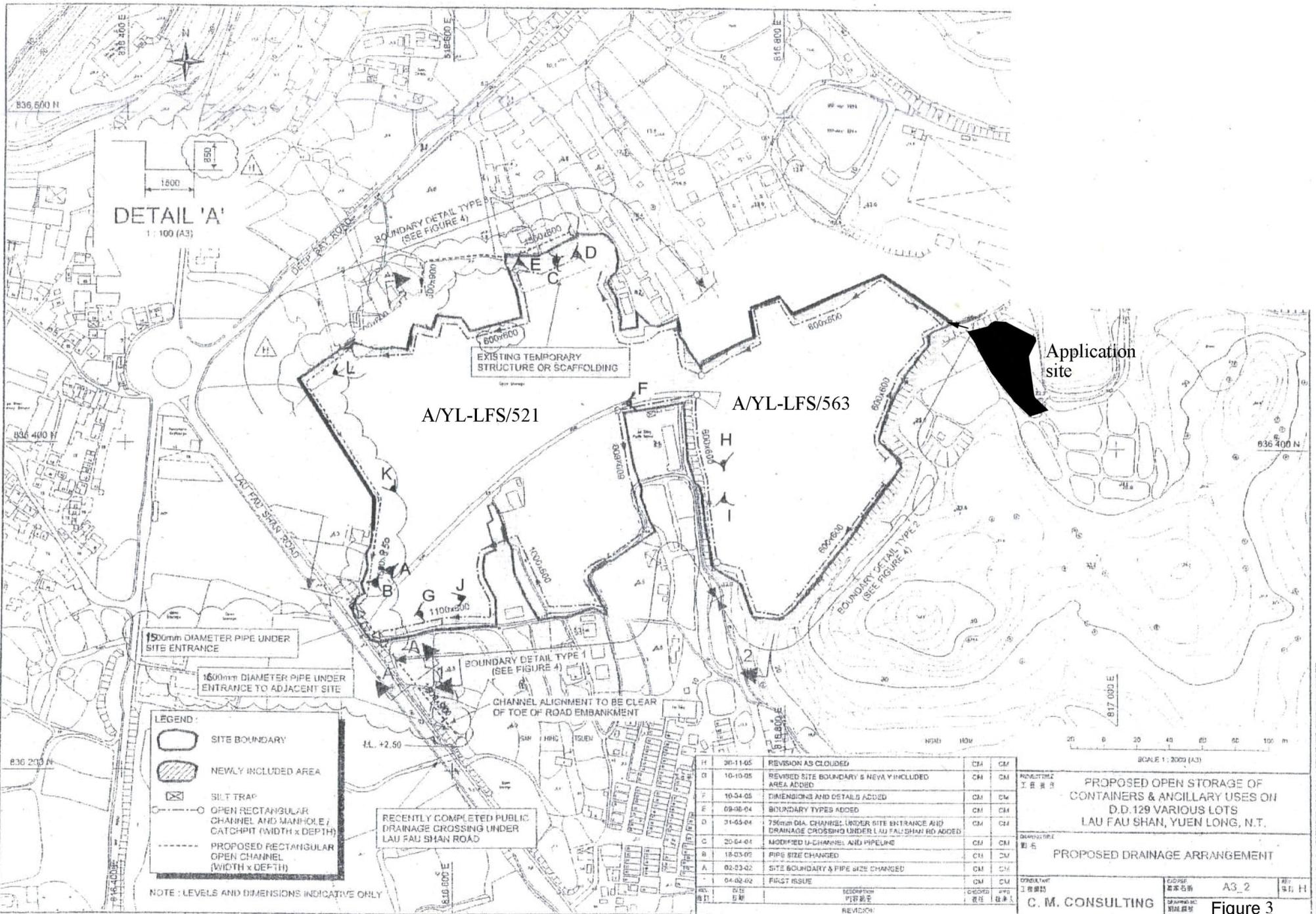
- Legends:
- Application Site Boundary
 - Proposed 225mm Stepped Channel (225SC)
 - Proposed 225mm U-Channel (225UC)
 - Proposed Catchpit

PROPOSED CATCHPIT	COVER LEVEL	INLET LEVEL	OUTLET LEVEL
CP1	23.25	22.60	22.00
CP2	22.54	21.50	21.50
CP3	22.37	21.20	21.20
CP4	22.20	20.90	20.90
CP5	21.70	22.30	21.50

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Drawing Title:
 Proposed Drainage Plan

Figure 2



Annex 1.3 Drainage Calculation for the Proposed Provision of Drainage Facilities at Subject Site

1. Runoff Estimation

1.1 Rational method is adopted for estimating the designed run-off

$$Q = k \times i \times A / 3,600$$

Assuming that:

- i. The area of the entire catchment is approximately 13,900m²; (**Figure 1**)
- ii. The catchment is predominant unpaved, it is assumed that the value of run-off co-efficient (k) is taken as 0.8.

$$\text{Difference in Land Datum} = 46.9\text{ m} - 22.2\text{ m} = 24.7\text{ m}$$

$$L = 195\text{ m}$$

$$\therefore \text{Average fall} = 24.7\text{ m in } 195\text{ m} \text{ or } 1\text{ m in } 12.7\text{ m}$$

According to the Brandsby-Williams Equation adopted from the “Stormwater Drainage Manual – Planning, Design and Management” published by the Drainage Services Department (DSD),

$$\text{Time of Concentration (} t_c \text{)} = 0.14465 [L / (H^{0.2} \times A^{0.1})]$$

$$t_c = 0.14465 [195 / (12.7^{0.2} \times 13,900^{0.1})]$$

$$t_c = 6.54\text{ minutes}$$

With reference to the Intensity-Duration-Frequency Curves provided in the abovementioned manual, the mean rainfall intensity (i) for 1 in 50 recurrent flooding period is found to be 280 mm/hr

$$\text{By Rational Method, } Q = 0.8 \times 280 \times 13,900 / 3,600$$

$$\therefore Q = 866\text{ l/s} = 0.86\text{ m}^3/\text{s}$$

In accordance with the Chart or the Rapid Design of Channels in “Geotechnical Manual for Slopes”, for an approximate gradient of about 1:50 & 1:55 along the site periphery of the site, 600 mm surface U-channel is considered adequate to dissipate all the stormwater accrued by the application site and the adjacent land.

ANNEX 1

DRAINAGE CALCULATIONS

Annex 1.3 Drainage Calculation for the Proposed Provision of Drainage Facilities at Subject Site

1. Runoff Estimation

1.1 Rational method is adopted for estimating the designed run-off

$$Q = k \times i \times A / 3,600$$

Assuming that:

- i. The area of the entire catchment is approximately 13,900m²; (**Figure 1**)
- ii. The catchment is predominant unpaved, it is assumed that the value of run-off co-efficient (k) is taken as 0.8.

$$\text{Difference in Land Datum} = 46.9\text{ m} - 22.2\text{ m} = 24.7\text{ m}$$

$$L = 195\text{ m}$$

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According to the Brandsby-Williams Equation adopted from the “Stormwater Drainage Manual – Planning, Design and Management” published by the Drainage Services Department (DSD),

$$\text{Time of Concentration } (t_c) = 0.14465 [L / (H^{0.2} \times A^{0.1})]$$

$$t_c = 0.14465 [195 / (12.7^{0.2} \times 13,900^{0.1})]$$

$$t_c = 6.54\text{ minutes}$$

With reference to the Intensity-Duration-Frequency Curves provided in the abovementioned manual, the mean rainfall intensity (i) for 1 in 50 recurrent flooding period is found to be 280 mm/hr

$$\text{By Rational Method, } Q = 0.8 \times 280 \times 13,900 / 3,600$$

$$\therefore Q = 866\text{ l/s} = 0.86\text{ m}^3/\text{s}$$

In accordance with the Chart or the Rapid Design of Channels in “Geotechnical Manual for Slopes”, for an approximate gradient of about 1:50 & 1:55 along the site periphery of the site, 600 mm surface U-channel is considered adequate to dissipate all the stormwater accrued by the application site and the adjacent land.

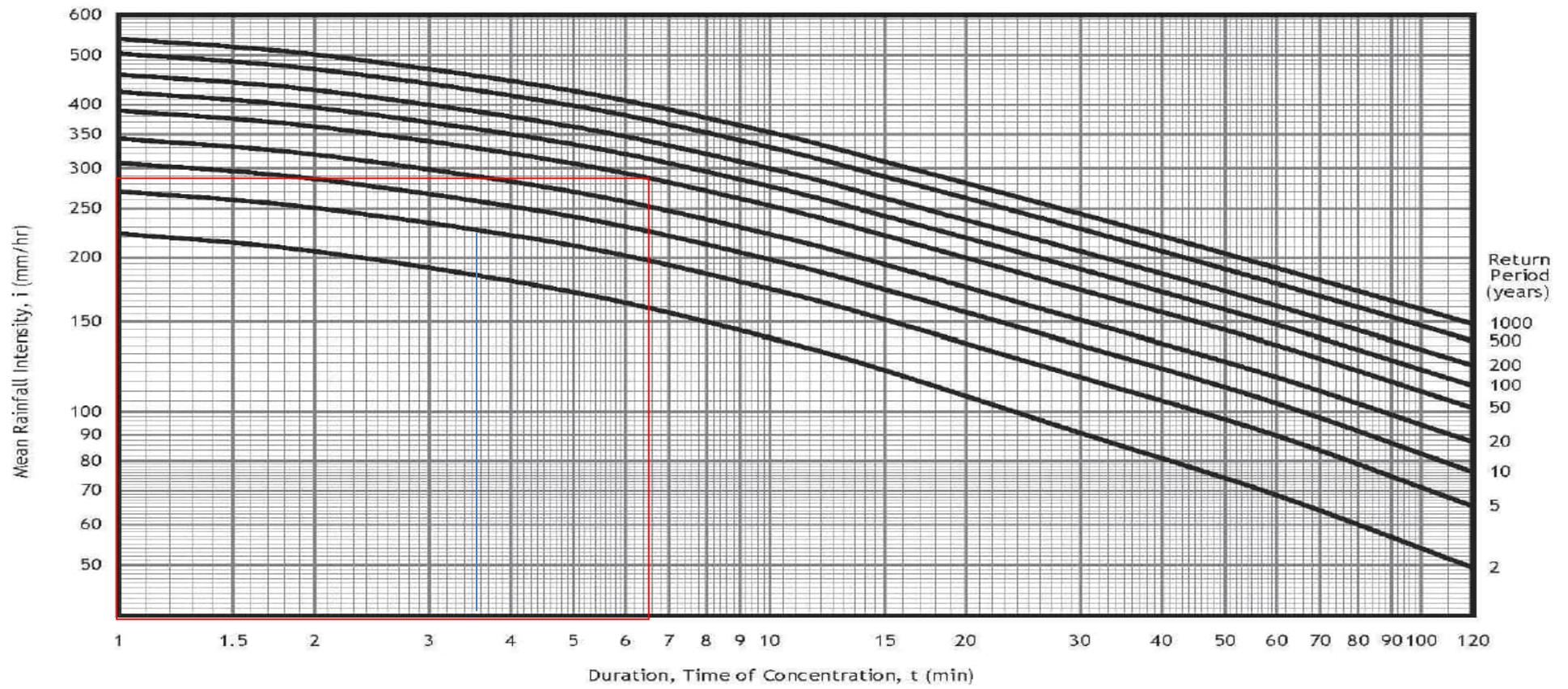


Figure 1 – New Intensity-Duration-Frequency (IDF) Curves (Tang & Cheung, 2011)

U-channel No	Catchpit No	Catchment Area		L(m)	Invert Level (mPD)		Manhole/Catchpit				Channel design						Checking		Remarks		
		Area	Q (req), m ³ /s		In	Out	Platform level	Inlet Invert level	Outlet Invert level	Depth (m)	n	Gradient	Size of channel	A (m ²)	WS (m)	R(m) =A/P	V (m/s)	$Q_{prov}, m^3/s$ $1/n \cdot A \cdot R^{2/3} \cdot S^{1/2}$		If $Q_{prov} > Q_{req}$, OK, if not, Not OK	
U1	CP1	A1	0.550	8.61	22.70	22.60	23.25			0.55	0.013	0.01	1 in 87	525.00	0.25	1.35	0.18	2.67	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.6558	OK
					22.60	23.25	22.60	22.00	1.25												
U2	CP2	A1	0.550	45.61	22.00	21.50	22.54			0.54	0.013	0.01	1 in 92	525.00	0.25	1.35	0.18	2.59	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.6371	OK
					21.50	22.54	21.50	21.50	1.04												
U3	CP3	A1	0.550	33.00	21.50	21.20	22.37			0.87	0.013	0.01	1 in 110	525.00	0.25	1.35	0.18	2.36	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.5802	OK
					21.20	22.37	21.20	21.20	1.17												
U4	CP4	A1	0.550	28.38	21.20	20.90	22.20			1.00	0.013	0.01	1 in 95	525.00	0.25	1.35	0.18	2.54	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.6257	OK
					20.90	22.20	20.90	20.90	1.30												
U6	CP5	A1	0.550	45.63	22.70	22.30	23.25			0.55	0.013	0.01	1 in 115	525.00	0.25	1.35	0.18	2.32	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.5697	OK
					22.30	22.54	22.30	21.50	1.04												
U5	CP4	A1	0.550	34.52	21.50	21.20	22.20			0.70	0.013	0.01	1 in 116	525.00	0.25	1.35	0.18	2.31	$0.25 \cdot (0.18^{2/3}) \cdot (0.01^{1/2}) / 0.013 =$	0.5673	OK
					21.20	22.20	21.20	20.90	1.30												