LIST OF APPENDICES

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Appendix I

Details of the affected business premises



Appendix I – Details of the Affected Business Premises

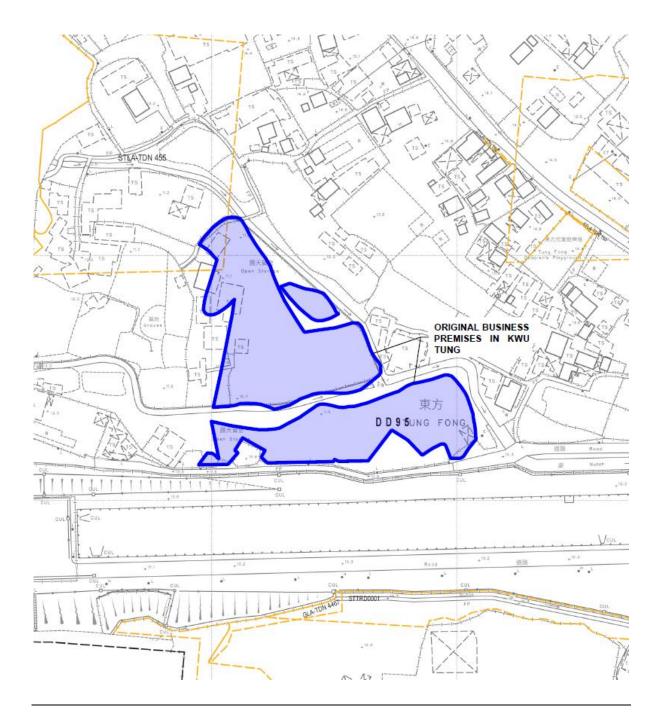
Company Name: Ming Lee Foundation Company Limited 明利基礎工程有限公司

Details of the Affected Business Premises

Location: Various Lots in D.D. 95, Kwu Tung, New Territories

(the private lots were reverted to the Government on 12.04.2024)

Use of Premises: Open Storage of Construction Materials and Machinery





Site Photo of the Affected Business Premises



Source: GeoInfo Map



Source: GeoInfo Map



Appendix II

Details of alternative sites for relocation



Appendix II – Alternative Sites for the Relocation of the Applicant's Original Premises

Alternative Site / Application Site	Site 1	Site 2	Site 3	Site 4	Site 5	Application Site	
Location	Various Lots in D.D. 78, Lin Ma Hang, New Territories	Various Lots in D.D. 9, Kau Lung Hang, Tai Po, New Territories	Various Lots in D.D. 103, Kam Tin, Yuen Long, New Territories	Various Lots in D.D. 129, Lau Fau Shan, Yuen Long, New Territories	Various Lots in D.D. 130, Lam Tei, Tuen Mun, New Territories	Various Lots in D.D. 109 and adjoining GL, Kam Tin, Yuen Long, New Territories	
Site Area	24,446 m² (about)	11,045 m² (about)	540 m² (about)	10,740 m² (about)	7,130 m² (about)	5,610 m² (about)	
Accessibility	Accessible from Lin Ma Hang Road via a local access	Accessible from Tai Wo Service Road via a local access	Accessible from Fuk Hang Tsuen Road via a local access	Accessible from Kam Tin Bypass via Kong Tai Road			
Distance from Original Premises	20.7 km (about)	10.0 km (about)	14.8 km (about)	22.7 km (about) 21.0 km (about)		19.4 km (about)	
Outline Zoning Plan	Approved Ta Kwu Ling North OZP No.: S/NE-TKLN/2	Approved Kau Lung Hang OZP No.: S/NE-KLH/11	Approved Kam Tin South OZP No. S/YL-KTS/15	Approved Lau Fau Shan & Tsim Bei Tsui OZP No.: S/YL-LFS/11			
Zoning	"Recreation" ("REC")	"Green Belt" ("GB")	"AGR"	"GB"	"Comprehensive Development Area"	"AGR"	
Existing Condition	Mostly vacant and partially hard-paved	Covered with vegetation and woodland	Vacant and covered with vegetation	Covered with vegetation and woodland	Hard-paved and occupied by temporary structures	Generally flat, partially covered with temporary structures and vegetation	
Surrounding Area	Surrounded by vacant land, woodland, public roads, temporary structures and village houses	Surrounded by agricultural activities and vacant land covered with vegetation and woodland	Surrounded by open storage, some GIC uses, woodland and residential structures	Surrounded by tree groups, temporary structures for open storage and residential use	Surrounded by warehouse, workshop, logistic centre and land covered by residential use	Surrounded by vacant land covered with vegetation and temporary structures	
Suitability for Relocation	Not suitable for relocation - much larger than the original premises - remote location - not compatible with the surrounding area	Not suitable for relocation - within the "GB" zone - site area is too small for current business - active agricultural activities - not compatible with the surrounding area	Not suitable for relocation: - much smaller than the original premises - in close proximity to residential developments - tree felling is required - not compatible with the surrounding area	Not suitable for relocation: - within the "GB" zone - not compatible with the surrounding area	Not suitable for relocation: - in close vicinity of area for residential use - land ownership issue	Suitable for relocation: - not incompatible with the surrounding area - easily accessible - relatively flat and mostly vacant	



Appendix III

Drainage proposal



Proposed Temporary Open Storage of Construction Materials and Machinery with Ancillary Facilities and Associated Filling of Land and Pond for a Period of 3 Years in "Agriculture" Zone, Various Lots in D.D. 109, Kam Tin, Yuen Long, N.T.

Drainage Proposal

Oct 2025 r1



PROPOSED TEMPORARY OPEN STORAGE OF CONSTRUCTION MATERIALS AND MACHINERY AND ASSOCIATED FILLING OF LAND AND POND FOR A PERIOD OF 3 YEARS, VARIOUS LOTS IN D.D. 107, KAM TIN, YUEN LONG, NEW TERRITORIES

Drainage Proposal

2

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Appendix B - Proposed Site Layout Plan

Appendix C – Reference Drawings

Appendix D – Site Photo

1 Introduction

1.1 Background

- 1.1.1 The applicant seeks planning permission from the Town Planning Board (the Board) under Section (S.) 16 of the Town Planning Ordinance (Cap. 131) to use Various Lots in D.D. 109, Kam Tin, Yuen Long, New Territories (the Site) for 'Proposed Temporary Open Storage of Construction Materials and Machinery with Ancillary Facilities and Associated Filling of Land and Pond for a Period of 3 Years'.
- 1.1.2 This report aims to support the development in drainage aspect.

1.2 Application Site

- 1.2.1 The application site is situated at the north of Chi Ho Road. It has an area of approx. 6,087 m². The site location is shown in **Figure 1**.
- 1.2.2 The existing site is mostly unpaved. The existing site levels are approx. +6.5 to +7.1 mPD. For formation of circulation space and open storage purpose, minor site formation (not more than 500mm) concrete to be applied at south portion of the site.
- 1.2.3 According to DSD record, there is an existing 15m width trapezoidal channel connected to the site by existing 750mm pipes. **Figure 2** indicates the existing drainage system of the area.

2 Development Proposal

2.1 The Proposed Development

2.1.1 The total site area is approximately 6,087 m². The catchment plan is shown in **Figure 4**.

Proposed Development Area (Approx.)					
Total Site Area (m²)	6,087				
Paved Area after Development (m ²)	1,874				
Unpaved Area after Development (m²)	4,213				
Assume all 6,087 m ² area to be paved for purpose	assessment				

Table 1 - Site Development Area

3 Assessment Criteria

3.1.1 The Recommended Design Return Period based on Flood Level from SDM (Table 10) is adopted for this report. The recommendation is summarized in **Table 2** below.

Description	Design Return Periods
Intensively Used Agricultural Land	2 – 5 Years
Village Drainage Including Internal Drainage System under a polder Scheme	10 Years
Main Rural Catchment Drainage Channels	50 Years
Urban Drainage Trunk System	200 Years
Urban Drainage Branch System	50 Years

Table 2- Design Return Periods under SDM

3.1.2 The proposed drainage system intended to collect runoff from internal site and external catchment. 1 in 50 years return period is adopted for drainage design.

- 3.1.3 Stormwater drainage design will be carried out in accordance with the criteria set out in the Stormwater Drainage Manual published by DSD. The proposed design criteria to be adopted for design of this stormwater drainage system and factors which have been considered are summarised below.
 - 1. Intensity-Duration-Frequency Relationship The Recommended Intensity-Duration-Frequency relationship is used to estimate the intensity of rainfall. It can be expressed by the following algebraic equation.

$$i = \frac{a}{(t_d + b)^c}$$

The site is located within the HKO Zone. Therefore, for 50 years return period, the following values are adopted.

a =
$$505.5$$

b = 3.29
c = 0.355

(Corrigendum No.1/2024)

The development is proposed for temporary use for a period of 3 years. 11.1% rainfall increase due to climate change is considered.

2. The peak runoff is calculated by the Rational Method i.e. $Q_p = 0.278CiA$

where Q_p = peak runoff in m³/s C = runoff coefficient (dimensionless) i = rainfall intensity in mm/hr A = catchment area in km²

3. The run-off coefficient (C) of surface runoff are taken as follows:

Paved Area: C = 0.95
 Unpaved Area: C = 0.35

4. Manning's Equation is used for calculation of velocity of flow inside the channels:

Manning's Equation:
$$v = \frac{R^{\frac{1}{6}}}{n} R^{\frac{1}{2}} S_f^{\frac{1}{2}}$$

Where,

V = velocity of the pipe flow (m/s)

S_f = hydraulic gradient

n = manning's coefficient

R = hydraulic radius (m)

5. Colebrook-White Equation is used for calculation of velocity of flow inside the pipes:

Colebrook-White Equation:
$$\underline{v} = -\sqrt{32gRS} \log \log \left(\frac{k_s}{14.8R} + \frac{1.255v}{R\sqrt{32gRS_f}}\right)$$

where,

V = velocity of the pipe flow (m/s)

S_f = hydraulic gradient k_f = roughness value (m)

v = kinematics viscosity of fluid

D = pipe diameter (m) R = hydraulic radius (m)

4 Proposed Drainage System

4.1. Proposed Channels

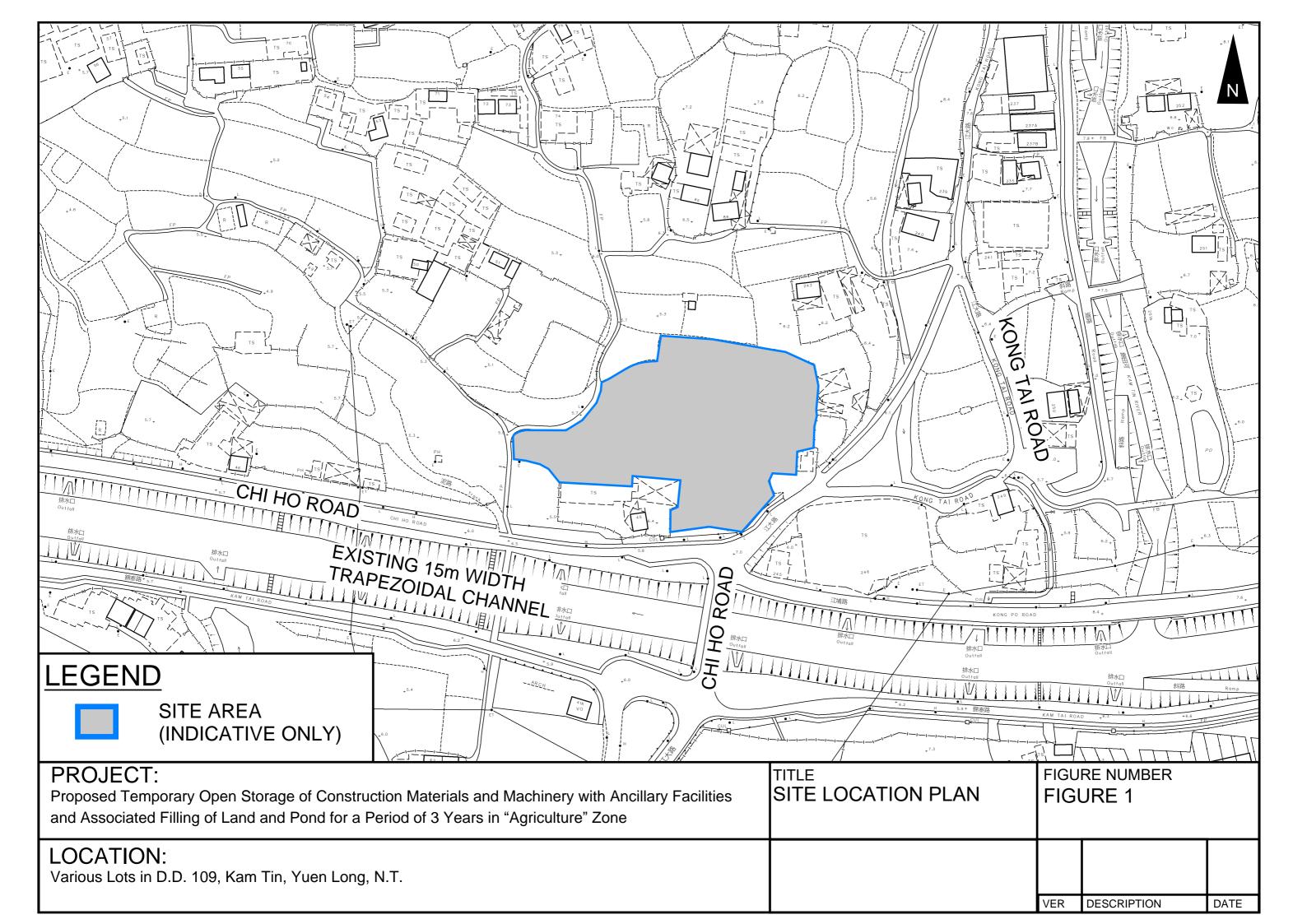
- 4.1.1 Proposed Channels are designed for collection of runoff for internal and external catchment. They are proposed to discharge to existing 15 m trapezoidal channel by existing 750mm pipes in between. The 15 m trapezoidal channel would eventually discharge to Kam Tin River. The utilization of the existing 15 m trapezoidal channel due to the development is about 0.12% according to checking in **Appendix A**.
- 4.1.2 The design calculations of proposed UChannel are shown in **Appendix A**.
- 4.1.3 The alignment, size, gradient and details of the proposed drains are shown in **Figure 3**. The catchment plan is shown in **Figure 4**.
- 4.1.4 Reference Drawings are shown in **Appendix B** for reference.

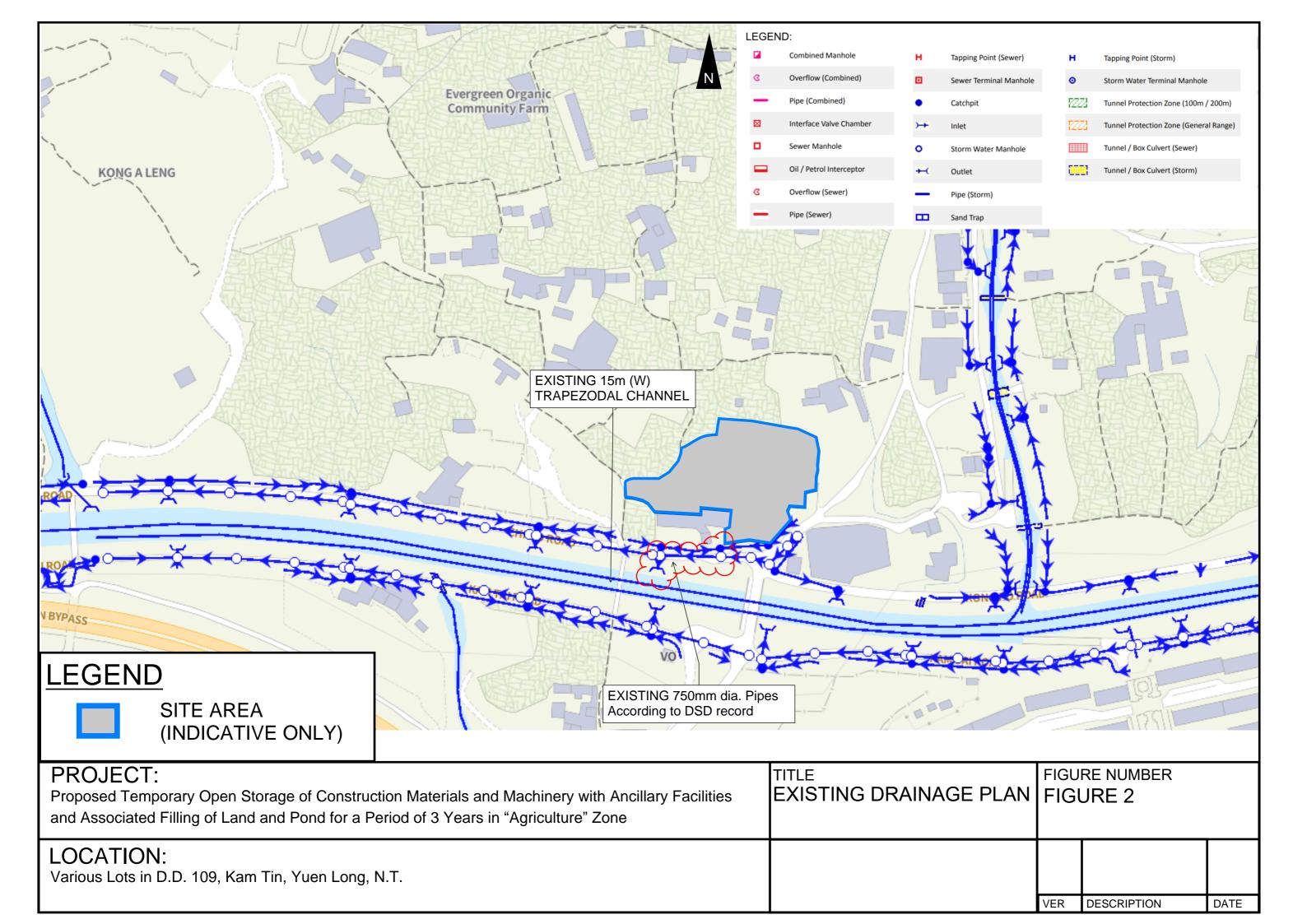
5 Conclusion

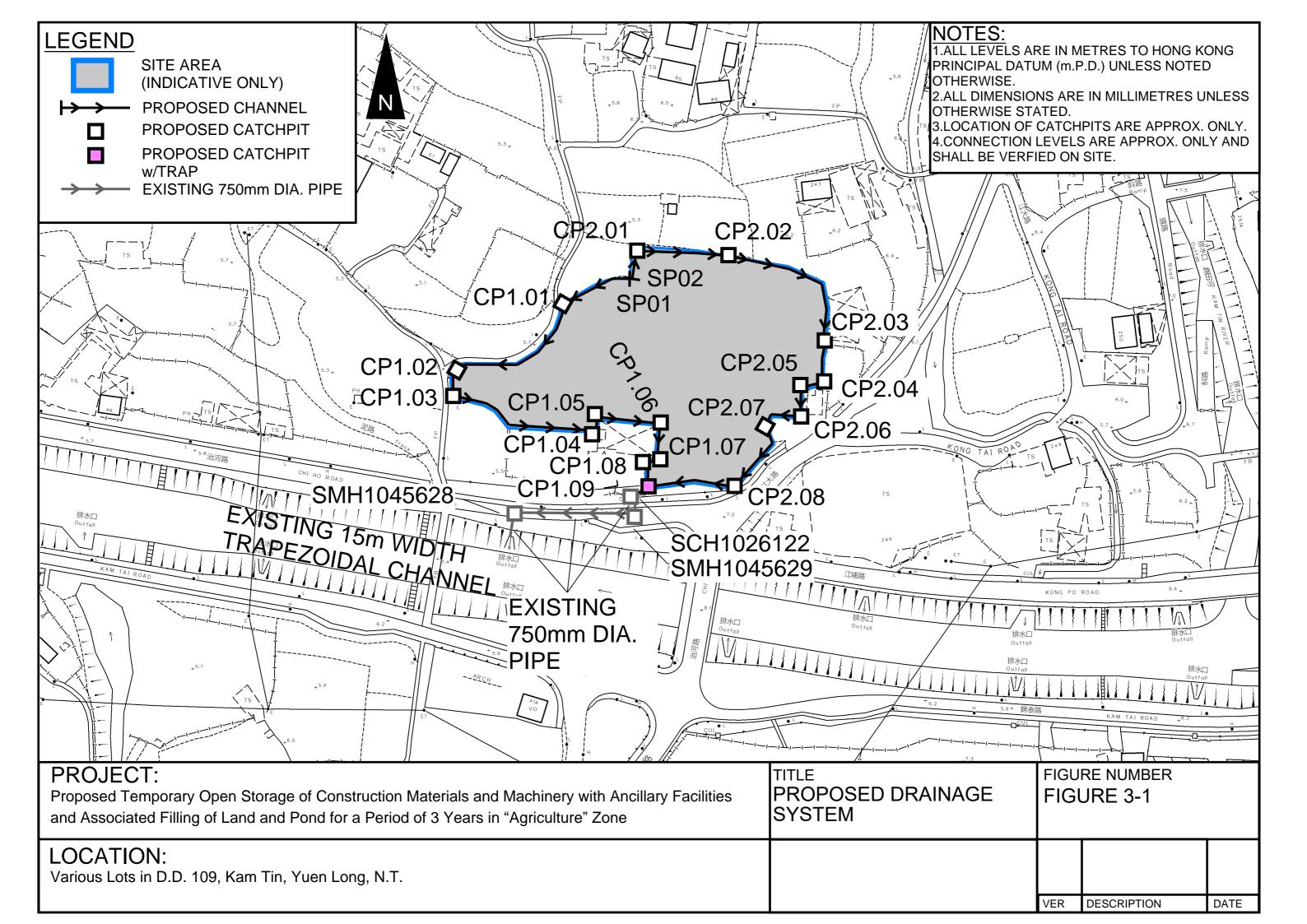
- 4.1.1 Drainage review has been conducted for the Proposed Development. The surface runoff will be collected by the proposed drains and discharged to existing trapezoidal channel and eventually to Kam Tin River.
- 4.1.2 With implementation of the above drainage system, no unacceptable drainage impact is anticipated.

- End of Text -

FIGURES

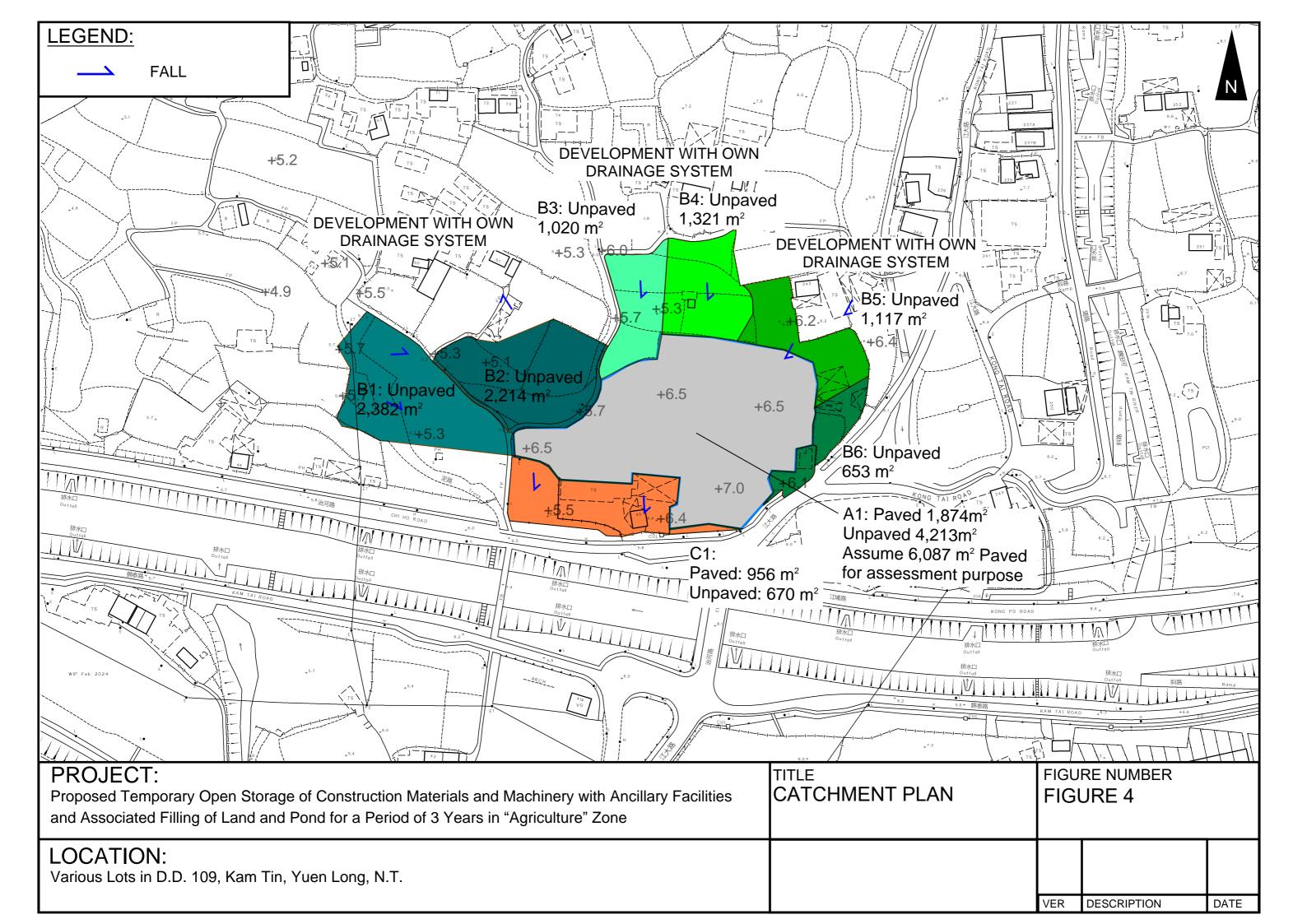


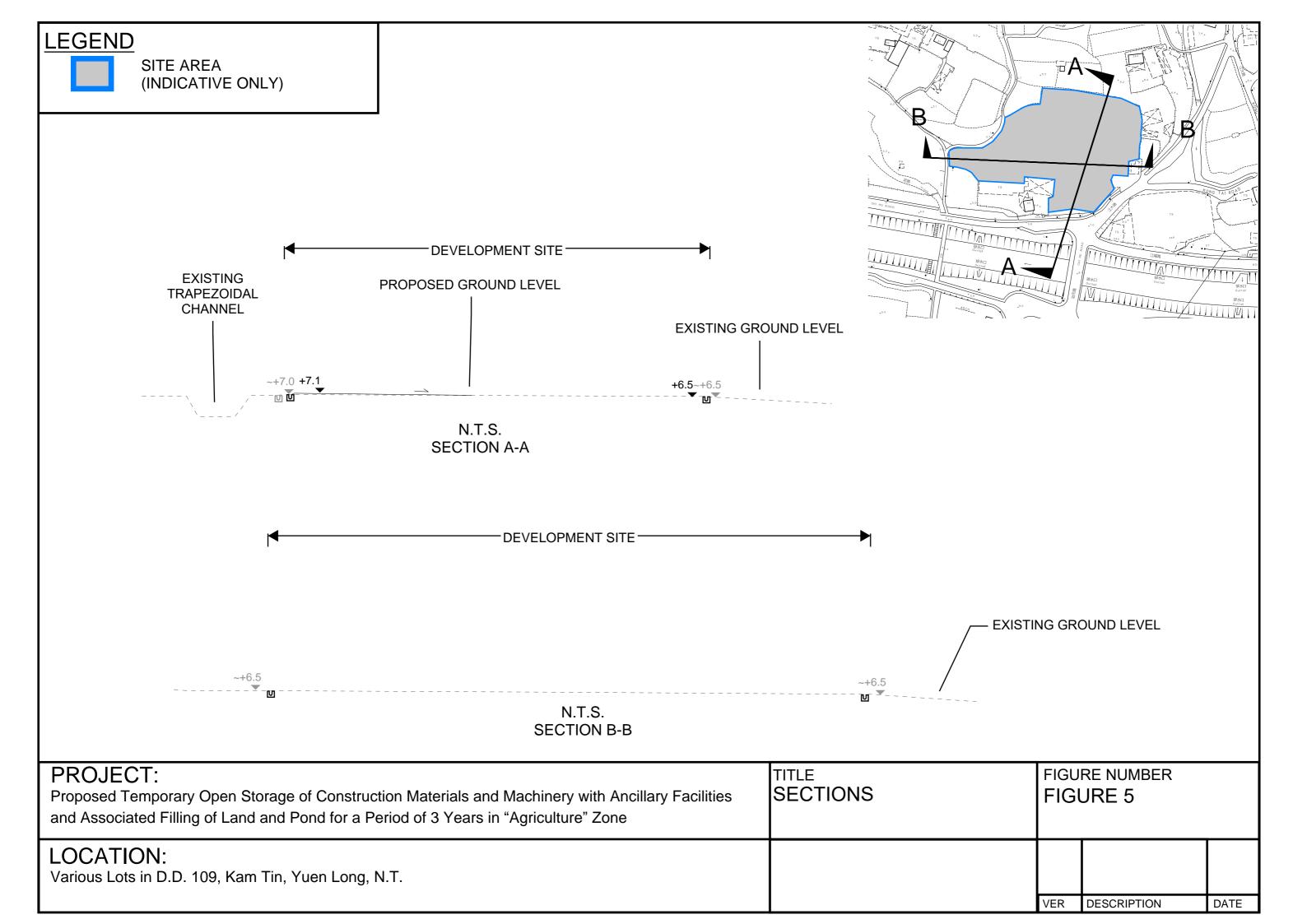




DRINAGE SCHEDULE										
									U/S	
				Size	Gradient				MH/PIT	
US MH/PIT	DS MH/PIT	USGL	DS GL	mm	1 in	Type	US IL	DSIL	TYPE#	Remark
SP01	CP1.01	6.5	6.5	675	400	UC	5.83	5.76	SP	#SP: Start Point
C P1.01	CP1.02	6.5	6.5	750	400	UC	5.75	5.63	CP	
C P1.02	CP1.03	6.5	6.5	750	400	UC	5.63	5.61	CP	
CP1.03	CP1.04	6.5	6.5	750	400	UC	5.61	5.48	CP	
CP1.04	C P1.05	6.5	6.5	750	400	UC	5.48	5.47	CP	
CP1.05	C P1.06	6.5	6.5	750	400	UC	5.47	5.42	CP	
C P1.06	C P1.07	6.5	7.1	750	200	UC	5.42	5.36	CP	
C P1.07	CP1.08	7.1	7.1	750	200	UC	5.36	5.34	E1	
CP1.08	CP1.09	7.1	7.1	750	200	UC	5.34	5.30	E1	
C P1.09	SCH1026122	7.1	6.5	750	95	UC	5.27	5.22	E1	
SC H1026122	SMH1045629	6.5	6.1	750	95	UC	4.19	4.14	Existing	
SMH1045629	SMH1045628	6.1	6.0	750	95	UC	4.11	3.69	Existing	
SMH1045628	Existing Trapezoidal Channel	6.0	6.0	750	95	UC	3.69	3.60	Existing	
SP02	C P2.01	6.5	6.5	750	400	UC	5.75	5.73	SP	
C P2.01	C P2.02	6.5	6.5	750	400	UC	5.73	5.65	CP	
C P2.02	CP2.03	6.5	6.5	750	400	UC	5.65	5.52	CP	
C P2.03	CP2.04	6.5	6.5	750	400	UC	5.52	5.48	СР	
C P2.04	C P2.05	6.5	6.5	750	400	UC	5.48	5.46	СР	
C P2.05	CP2.06	6.5	6.5	750	400	UC	5.46	5.44	СР	
C P2.06	CP2.07	6.5	7.1	750	400	UC	5.44	5.41	СР	
C P2.07	CP2.08	7.1	7.1	750	400	UC	5.41	5.34	E1	
C P2.08	CP1.09	7.1	7.1	750	400	UC	5.34	5.27	E1	

111000011	TITLE DRAINAGE SCHEDULE		FIGURE NUMBER FIGURE 3-2			
LOCATION: Various Lots in D.D. 109, Kam Tin, Yuen Long, N.T.		VER	DESCRIPTION	DATE		





APPENDIX

Appendix A: Design Calculation

Zone		
	НКО	

Return Period	1 in	50	years
1	l		

n	0.014
Ks	0.15
Viscosity	0.000001

	НКО а	505.5
Storm Constant	НКО Ь	3.29
	НКО с	0.355

Catchment Area Table (Area in m²)

• 410	ACOMITION FILED (FILED MITH)														
Catchment	A1	B1	B2	В3	B4	B5	B6	C1							
Total Area	6087	2382	2214	1020	1321	1117	653	1626							
Hard Paved Area	6087	0	0	0	0	0	0	956							
Unpaved Area	0	2382	2214	1020	1321	1117	653	670							
Equival. Area	5782.65	833.7	774.9	357	462.35	390.95	228.55	1142.7							

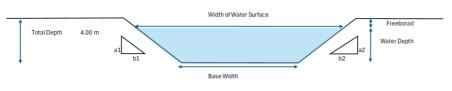
Pavement Type	Hard Paved	Unpaved		
Runoff Coefficient	0.95	0.35		

Calculation Table of Drainage System

US MH/PIT	DS MH/PIT	US GL	DS GL	Size	Gradient	Туре	USIL	DS IL	U/S MH/PIT	Length	V	Capacity	Catchments	Total Equivalent Area	ToC	Intensity	Total	Utilitizatio	Rema
				mm	1 in				TYPE*	m	m/s##	m³/s		m ²	min	mm/hr##	Discharge	n	
																	m³/s		
SP01	CP1.01	6.50	6.50	675	400	UC	5.83	5.76	SP	24.4	1.36	0.55	A1,B3	6139.65	4.40	272	0.46	84.1%	
CP1.01	CP1.02	6.50	6.50	750	400	UC	5.75	5.63	CP	47.7	1.46	0.73	A1,B2,B3	6914.55	4.70	269	0.52	70.6%	
CP1.02	CP1.03	6.50	6.50	750	400	UC	5.63	5.61	CP	9.2	1.46	0.73	A1,B1,B2,B3	7748.25	5.25	262	0.57	77.3%	
CP1.03	CP1.04	6.50	6.50	750	400	UC	5.61	5.48	CP	51.1	1.46	0.73	A1,B1,B2,B3	7748.25	5.35	261	0.56	76.9%	
CP1.04	CP1.05	6.50	6.50	750	400	UC	5.48	5.47	CP	4.5	1.46	0.73	A1,B1,B2,B3	7748.25	5.94	255	0.55	75.2%	
CP1.05	CP1.06	6.50	6.50	750	400	UC	5.47	5.42	CP	21.1	1.46	0.73	A1,B1,B2,B3	7748.25	5.99	255	0.55	75.0%	
CP1.06	CP1.07	6.50	7.10	750	200	UC	5.42	5.36	CP	12	2.06	1.03	A1,B1,B2,B3	7748.25	6.23	252	0.54	52.6%	
CP1.07	CP1.08	7.10	7.10	750	200	UC	5.36	5.34	E1	3.2	2.06	1.03	A1,B1,B2,B3	7748.25	6.33	251	0.54	52.4%	
CP1.08	CP1.09	7.10	7.10	750	200	UC	5.34	5.30	E1	7.8	2.06	1.03	A1,B1,B2,B3	7748.25	6.35	251	0.54	52.3%	
CP1.09	SCH1026122	7.10	6.50	750	95	UC	5.27	5.22	E1	5.1	2.99	1.50	A1,B1,B2,B3,B4,B5,B6,C1	9972.80	6.60	249	0.69	46.0%	
SCH1026122	SMH1045629	6.50	6.08	750	95	UC	4.19	4.14	Existing	5	2.99	1.50	A1,B1,B2,B3,B4,B5,B6,C1	9972.80	6.63	249	0.69	45.9%	Exi
SMH1045629	SMH1045628	6.08	5.96	750	95	UC	4.11	3.69	Existing	40	2.99	1.50	A1,B1,B2,B3,B4,B5,B6,C1	9972.80	6.66	248	0.69	45.9%	Exi
SMH1045628	Existing Trapezoidal Channel	5.96	5.96	750	95	UC	3.69	3.60	Existing	8	2.99	1.50	A1,B1,B2,B3,B4,B5,B6,C1	9972.80	6.88	247	0.68	45.5%	Exis
SP02	CP2.01	6.50	6.50	750	400	UC	5.75	5.73	SP	9.5	1.46	0.73	A1.B3	6139.65	4.40	272	0.46	63.5%	
CP2.01	CP2.02	6.50	6.50	750	400	UC	5.73	5.65	CP	30.6	1.46	0.73	A1,B3,B4	6602.00	4.51	271	0.50	68.0%	
CP2.02	CP2.03	6.50	6.50	750	400	UC	5.65	5.52	CP	52.5	1.46	0.73	A1.B3.B4.B5	6992.95	4.86	267	0.52	70.9%	
CP2.03	CP2.04	6.50	6.50	750	400	UC	5.52	5.48	CP	14.5	1.46	0.73	A1,B3,B4,B5,B6	7221.50	5.46	260	0.52	71.4%	
CP2.04	CP2.05	6.50	6.50	750	400	UC	5.48	5.46	CP	7.2	1.46	0.73	A1,B3,B4,B5,B6	7221.50	5.63	258	0.52	70.9%	
CP2.05	CP2.06	6.50	6.50	750	400	UC	5.46	5.44	CP	9.6	1.46	0.73	A1,B3,B4,B5,B6	7221.50	5.71	257	0.52	70.7%	
CP2.06	CP2.07	6.50	7.10	750	400	UC	5.44	5.41	CP	14	1.46	0.73	A1,B3,B4,B5,B6	7221.50	5.82	256	0.51	70.4%	
CP2.07	CP2.08	7.10	7.10	750	400	UC	5.41	5.34	E1	25.6	1.46	0.73	A1,B3,B4,B5,B6	7221.50	5.98	255	0.51	69.9%	
CP2.08	CP1.09	7.10	7.10	750	400	UC	5.34	5.27	E1	28.7	1.46	0.73	A1,B3,B4,B5,B6	7221.50	6.27	252	0.51	69.2%	
w From Drong	osed Development												A1	5782.65	6.88	247	0.40		

: With 11.1% rainfall increase as per Table 28 of SDM Corrigendum No. 1/2022.

Capacity Checking of existing 15m (W) Trapezoidal Channel for flow from Proposed Development Area

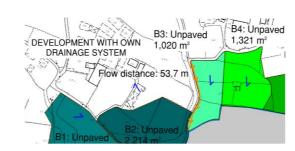


Assumed Water Depth	Freeboard	Base Width	Width of Water Surface	Flow Area	Wetted Perimeter	Hydralic Radius	Manning's Roughness	Gradient	Velocity	Capacity
m	m	m	m	m ²	m	m		1 in	m/s	m³/s
3.70	0.30	7.00	14.40	30.50	17.47	2 27	0.014	200	8 72	345.05

Total Flow due to the application = 0.40 m 3 /s Utilization Rate = 0.12% Total flow due to the Application Site only occupy 0.12% of the existing Channel/ Watercourse.

Time of Concentration Checking

Catchment	Flow Distance	Highest Level	lava I tzawa I	Gradient (per 100m) = (H1-H2)/L x 100	to (min) = 0.14465L/ (H ^{0.2} A ^{0.1})	tc = to + tf
A	L	H1	H2			
(m2)	(m)	(mPD)	(mPD)		(min)	(min)
1020	53.7	6	5.7	0.559	4.4	4.4



APPENDIX B - PROPOSED SITE LAYOUT PLAN STRUCTURE USE COVERED GROSS BUILDING AREA FLOOR AREA HEIGHT SITE OFFICE AND WASHROOM 108 m² (ABOUT) 108 m² (ABOUT) 4 m (ABOUT)(1-STOREY)

PARKING SPACE (PC)

L/UL SPACE (CV)

INGRESS / EGRESS

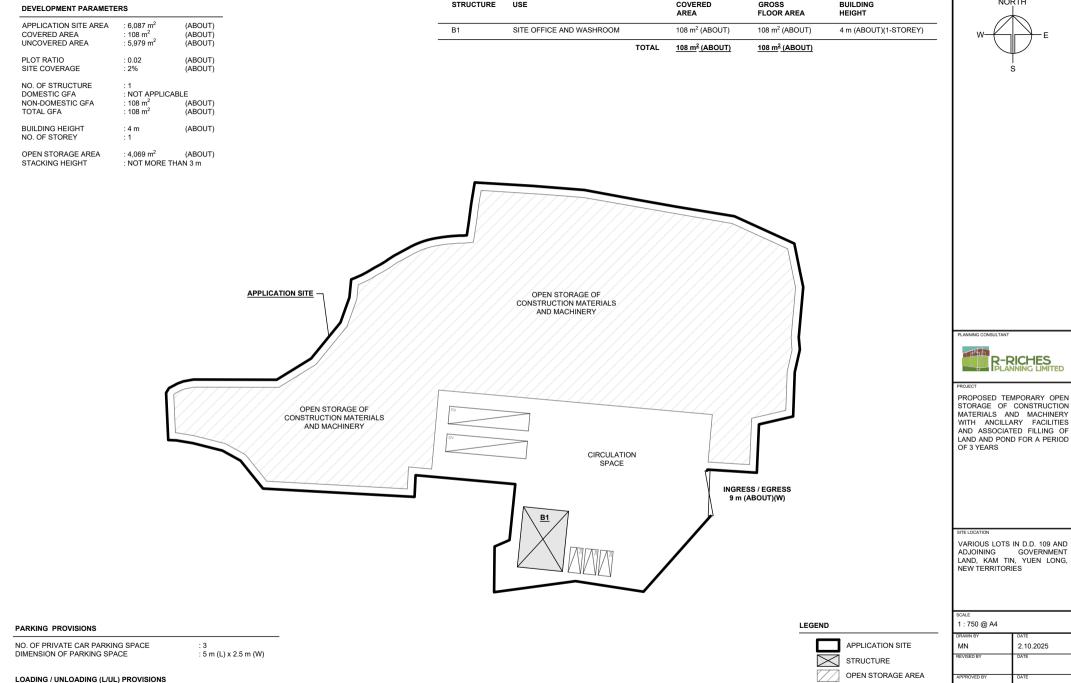
DWG. TITLE

DWG NO

PLAN 9

LAYOUT PLAN

001



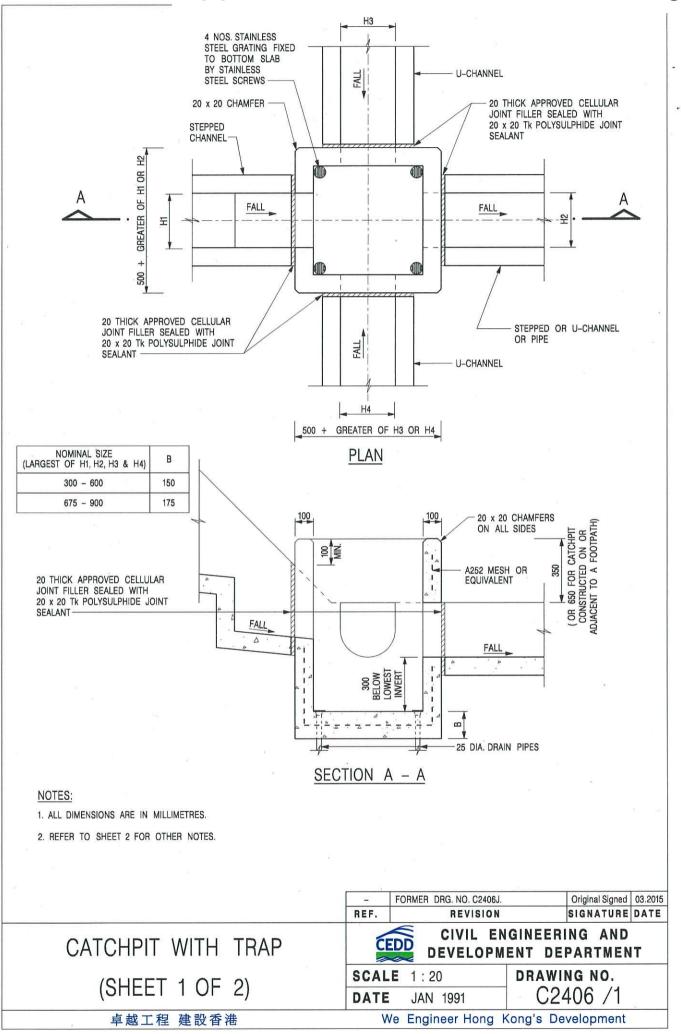
NO. OF L/UL SPACE FOR CONTAINER VEHICLE

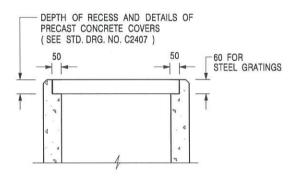
*SITE BOUNDARY FOR IDENTIFICATION PURPOSE ONLY.

: 16 m (L) x 3.5 m (W)

DIMENSION OF L/UL SPACE

Appendix C - Reference Drawings





ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ALL CONCRETE SHALL BE GRADE 20 /20.
- 3. CONCRETE SURFACE FINISH SHALL BE CLASS U2 OR F2 AS APPROPRIATE.
- 4. FOR DETAILS OF JOINT, REFER TO STD. DRG. NO. C2413.
- 5. CONCRETE TO BE COLOURED AS SPECIFIED.
- UNLESS REQUESTED BY THE MAINTENANCE PARTY AND AS DIRECTED BY THE ENGINEER, CATCHPIT WITH TRAP IS NORMALLY NOT PREFERRED DUE TO PONDING PROBLEM.
- 7. UPON THE REQUEST FROM MAINTENANCE PARTY, DRAIN PIPES AT CATCHPIT BASE CAN BE USED BUT THIS IS FOR CATCHPITS LOCATED AT SLOPE TOE ONLY AND AS DIRECTED BY THE ENGINEER.
- FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH, STEEL GRATINGS (SEE DETAIL 'A' ON STD. DRG. NO. C2405 /2) OR CONCRETE COVERS (SEE STD. DRG. NO. C2407) SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER.
- 9. IF INSTRUCTED BY THE ENGINEER, HANDRAILING (SEE DETAIL 'J' ON STD. DRG. NO. C2405 /5; EXCEPT ON THE UPSLOPE SIDE) IN LIEU OF STEEL GRATINGS OR CONCRETE COVERS CAN BE ACCEPTED AS AN ALTERNATIVE SAFETY MEASURE FOR CATCHPITS NOT ON A FOOTPATH NOR ADJACENT TO IT. TOP OF THE HANDRAILING SHALL BE 1 000 mm MIN. MEASURED FROM THE ADJACENT GROUND LEVEL.
- 10. MINIMUM INTERNAL CATCHPIT WIDTH SHALL BE 1 000 mm FOR CATCHPITS WITH A HEIGHT EXCEEDING 1 000 mm MEASURED FROM THE INVERT LEVEL TO THE ADJACENT GROUND LEVEL. AND, STEP IRONS (SEE DSD STD. DRG. NO. DS1043) AT 300 c/c STAGGERED SHALL BE PROVIDED. THICKNESS OF CATCHPIT WALL FOR INSTALLATION OF STEP IRONS SHALL BE INCREASED TO 150 mm.
- FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'G' ON STD. DRG. NO. C2405 /4.
- SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

REF.	REVISION	SIGNATURE	DATE
-	FORMER DRG. NO. C2406J.	Original Signed	03.2015
Α	MINOR AMENDMENT.	Original Signed	04.2016

CATCHPIT WITH TRAP (SHEET 2 OF 2)

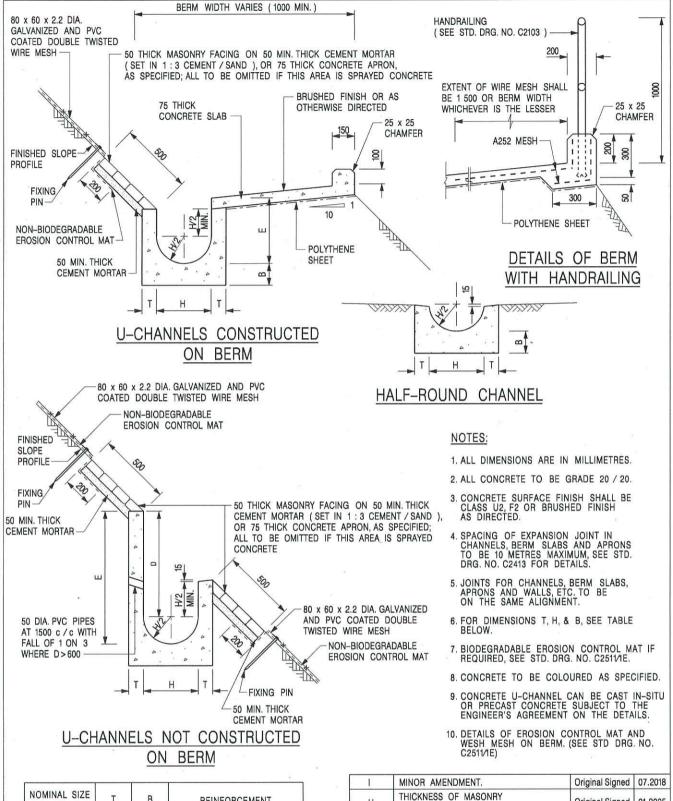


CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1:20 **DATE** JAN 1991

drawing no. C2406 /2A

卓越工程 建設香港



NOMINAL SIZE H	T	В	REINFORCEMENT
300	80	100	A252 MESH PLACED CENTRALLY AND T=100
375 - 600	100	150	WHEN E>650
675 - 900	125	175	A252 MESH PLACED CENTRALLY

RE	F. REVISION	SIGNATURE	DATE
	MINOR AMENDMENTS.	Original Signed	3.94
	150 x 100 UPSTAND ADDED AT BERM	I. Original Signed	6.99
	MINOR AMENDMENT.	Original Signed	08.2001
	DRAWING TITLE AMENDED.	Original Signed	11.2001
	GENERAL REVISION.	Original Signed	12.2002
	MINOR AMENDMENT.	Original Signed	01.2004
	THICKNESS OF MASONRY FACING AMENDED.	Original Signed	01.2005
	MINOR AMENDMENT.	Original Signed	07.2018

DETAILS OF HALF-ROUND AND U-CHANNELS (TYPE A -WITH MASONRY APRON)

卓越工程 建設香港

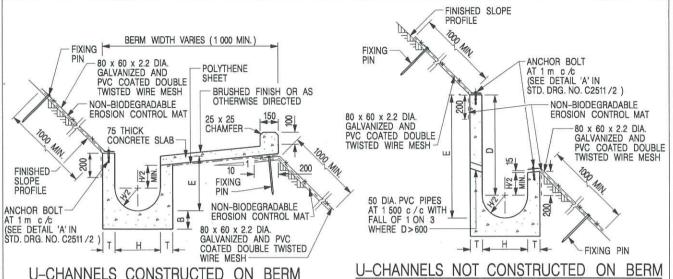
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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1:25

DATE JAN 1991

C2409l



U-CHANNELS CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT U-CHANNELS NOT CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT

BIODEGRADABLE

EROSION CONTROL MAT

07.2018

12.2017

01.2005

12.2002

08 2001

6.99

3.94

10.92

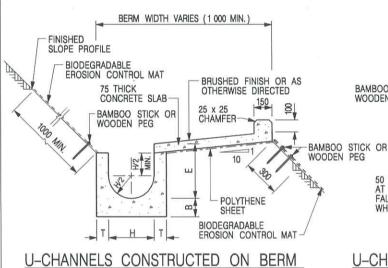
DATE

Original Signed

SIGNATURE

FINISHED SLOPE PROFILE

ш



WITH BIODEGRADABLE

EROSION CONTROL MAT

BAMBOO STICK OR WOODEN PEG

U-CHANNELS NOT CONSTRUCTED ON BERM

WITH BIODEGRADABLE

EROSION CONTROL MAT

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. ALL CONCRETE TO BE GRADE 20 /20.
- 3. CONCRETE SURFACE FINISH SHALL BE CLASS U2, F2 OR BRUSHED FINISH AS DIRECTED.
- SPACING OF EXPANSION JOINT IN CHANNELS, BERM SLABS AND APRONS TO BE 10 METRES MAXIMUM, SEE STD. DRG. NO. C2413 FOR DETAILS.
- 5. JOINTS FOR CHANNELS, BERM SLABS, APRONS AND WALLS, ETC. TO BE ON THE SAME ALIGNMENT.
- 6. FOR DIMENSIONS T, H, & B, SEE TABLE BELOW.
- 7. FOR TYPICAL FIXING PIN DETAILS, SEE STD. DRG. NO. C2511/2.
- 8. MINIMUM SIZE OF 25 x 50 x 300mm SHALL BE PROVIDED FOR WOODEN PEG.
- MINIMUM SIZE OF 10mm DIAMETER WITH 200mm LONG SHALL BE PROVIDED FOR BAMBOO STICK.
- 10. THE FIXING DETAILS OF NON-BIODEGRADABLE AND BIODEGRADABLE EROSION CONTROL MATS ON EXISTING BERM SHALL REFER TO STD. DRG. NO. C2511/1.

NOMINAL SIZE H	Ţ	В	REINFORCEMENT
300	80	100	A252 MESH PLACED
375 - 600	100	150	CENTRALLY AND T=100 WHEN E>650
675 - 900	125	175	A252 MESH PLACED CENTRALLY

DETAILS	OF	HALF-	ROUN	D AND	
U-CHAN	NELS	(TYP	ЕВ.	- WITH	
EROSION	CON	JTROI	MAT	APRON	J)

6
CEDD
CEDD
nac

Н

G

F

E

D

C

В

A

REF.

BAMBOO STICK OR WOODEN PEG

50 DIA. PVC PIPES AT 1 500 c/c WITH FALL OF 1 ON 3

WHERE D>600

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC
DATE JAN 1991

MINOR AMENDMENT.

MINOR AMENDMENT

GENERAL REVISION.

MINOR AMENDMENT.

MINOR AMENDMENT.

MINOR AMENDMENT

FIXING DETAILS OF BIODEGRADABLE

150 x 100 UPSTAND ADDED AT BERM

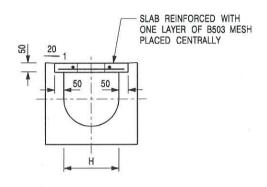
REVISION

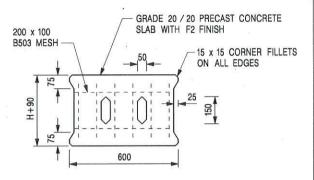
EROSION CONTROL MAT ADDED.

DIMENSION TABLE AMENDED

C2410

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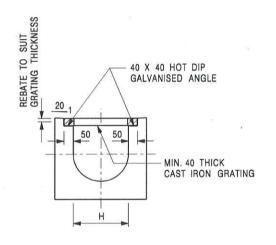


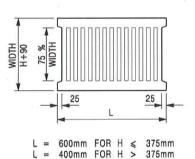
<u>PLAN OF SLAB</u>

TYPICAL SECTION

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)





TYPICAL SECTION

CAST IRON GRATING

(DIMENSIONS ARE FOR GUIDANCE ONLY, CONTRACTOR MAY SUBMIT EQUIVALENT TYPE)

U-CHANNEL WITH CAST IRON GRATING

(UP TO H OF 525)

NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. H=NOMINAL CHANNEL SIZE.
- ALL CAST IRON FOR GRATINGS SHALL BE GRADE EN-GJL-150 COMPLYING WITH BS EN 1561.
- 4. FOR COVERED CHANNELS TO BE HANDED OVER TO HIGHWAYS DEPARTMENT FOR MAINTENANCE, THE GRATING DETAILS SHALL FOLLOW THOSE AS SHOWN ON HyD STD. DRG. NO. H3156.

REF.	REVISION	SIGNATURE	DATE
Α	CAST IRON GRATING AMENDED.	Original Signed	
В	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
С	MINOR AMENDMENT. NOTE 3 ADDED.	Original Signed	12.2005
D	NOTE 4 ADDED.	Original Signed	06.2008
E	NOTES 3 & 4 AMENDED.	Original Signed	

COVER SLAB AND CAST IRON GRATING FOR CHANNELS



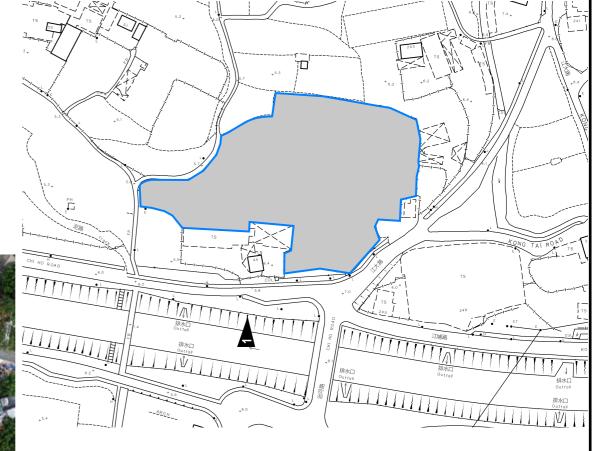
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

 SCALE
 1:20
 DRAWING NO.

 DATE
 JAN 1991
 C2412E

卓越工程 建設香港





PROJECT:
Proposed Temporary Open Storage of Construction Materials and Machinery with Ancillary Facilities
and Associated Filling of Land and Pond for a Period of 3 Years in "Agriculture" Zone
LOCATIONI

PROJECT: Proposed Temporary Open Storage of Construction Materials and Machinery with Ancillary Facilities and Associated Filling of Land and Pond for a Period of 3 Years in "Agriculture" Zone	SITE PHOTO	API	PENDIX D	
LOCATION: Various Lots in D.D. 109, Kam Tin, Yuen Long, N.T.		VER	DESCRIPTION	DATE

Appendix IV

Tree survey



Tree Survey Report

Date of Survey: 22nd August 2025

Location:

Various Lots In D.D. 109 And Adjoining Government Land, Kam Tin, Yuen Long, New Territories

Prepared by:

Mak Ka Hei

Registered Arborist

Date: 16th October 2025



Table of contents

1. Introduction 3

2. Summary of Existing Trees 4

Appendix:

- I. Tree Survey Plan
- II. Tree Survey Schedule
- III. Photo Records

Disclaimer:

The tree survey conducted indicates the condition of the surveyed trees at the time of inspection only. The assessments of amenity value, form, health and structural condition of the trees surveyed are based on visual inspection from the ground only. No aerial inspection, root digging or mapping, or diagnostic testing has been conducted as part of this survey. Wing Ho Yuen Landscaping Company Limited cannot accept responsibility for future failure or defects detected after the time of inspection of the trees surveyed in this report.



1. Introduction

The survey conducted is to record all the existing trees in the tree survey boundary. The survey include tree species identification, tree tagging with durable labels, the measurements of overall tree height, Diameter at Breast Height (DBH), average crown spread, the evaluation on amenity value, form, health and structural conditions.

The tree survey was conducted on 22nd August 2025. Plants with DBH less than 95mm were not recorded in the survey.



2. Summary of Existing Trees

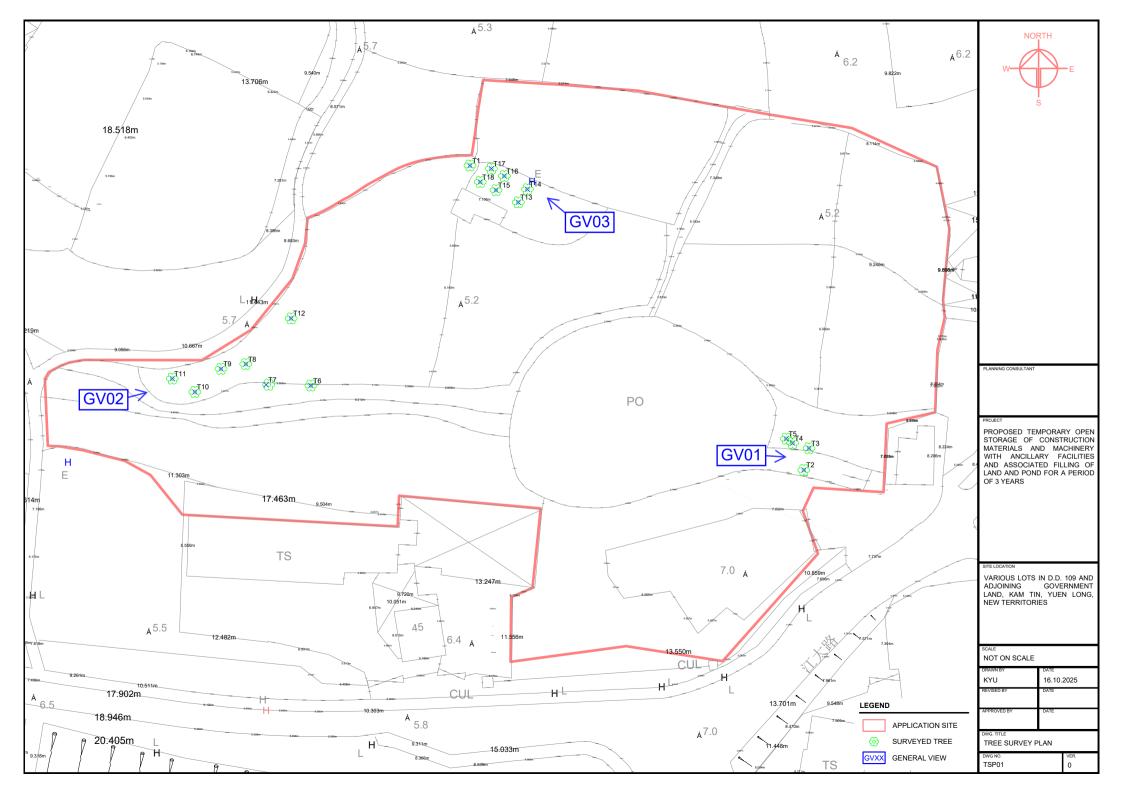
The surveyed site is located at Various Lots In D.D. 109 And Adjoining Government Land, Kam Tin, Yuen Long, New Territories.

At the time of inspection on 22nd August 2025, **18 nos.** trees were found within the Site. **1 no.** dead tree (**T8**) was recorded in the surveyed area. Location of individual tree refers to Appendix I.

Details of tree conditions and photo records for individual tree are recorded in the Appendix II and Appendix III respectively.



Appendix I – Tree Survey Plan





Appendix II – Tree Survey Schedule

Tree Survey Schedule

Location: <u>Various Lots In D.D. 109 And Adjoining Government Land, Kam Tin, Yuen Long, New Territories</u>



Tree surveyor(s): Mak Ka Hei
Field Survey was conducted on: 22 August 2025

	Tree Species		Tree Size Measurements			Amenity Value	Form	Health Condition	Structural Condition	Suitability for Transplanting	
Tree No.	Botanical Name	Chinese Name	Overall Height (m)	DBH (mm)	Average Crown Spread (m)	High /Med /Low	Good /Fair /Poor	Good /Fair /Poor /Dead	Good /Fair /Poor	High /Med /Low	Remarks
T1	Litchi chinensis	荔枝	6.0	140	5.0	Med	Fair	Fair	Fair	Low	multi-trunks, wound on trunk
T2	Ficus microcarpa	細葉榕	11.0	470	15.0	Low	Fair	Fair	Fair	Low	co-dominant trunks
T3	Ficus microcarpa	細葉榕	10.0	440	11.0	Low	Fair	Poor	Fair	Low	epicormics at trunk
T4	Bombax ceiba	木棉	16.0	300	9.0	Low	Poor	Fair	Fair	Low	
T5	Ficus microcarpa	細葉榕	10.0	410	9.0	Low	Fair	Fair	Poor	Low	broken trunk
Т6	Litchi chinensis	荔枝	7.0	210	6.0	Med	Fair	Fair	Poor	Low	co-dominant trunks, dead stub, dead trunk
T7	Litchi chinensis	荔枝	4.0	230	6.0	Med	Fair	Fair	Poor	Low	multi-trunks, dead trunk
T8	Dead tree	死樹	3.0	480	4.0	-	-	Dead	-	-	dead tree
T9	Litchi chinensis	荔枝	2.0	220	5.0	Med	Fair	Fair	Poor	Low	multi-trunks
T10	Litchi chinensis	荔枝	3.0	230	6.0	Med	Fair	Fair	Poor	Low	multi-trunks
T11	Litchi chinensis	荔枝	2.0	250	4.0	Med	Fair	Fair	Poor	Low	multi-trunks
T12	Litchi chinensis	荔枝	3.0	230	4.0	Low	Poor	Poor	Poor	Low	broken trunk
T13	Litchi chinensis	荔枝	5.0	240	7.0	Med	Poor	Poor	Poor	Low	broken trunk, crooked trunk, multi- trunks
T14	Litchi chinensis	荔枝	5.0	230	4.0	Med	Poor	Poor	Poor	Low	dieback, multi-trunks
T15	Litchi chinensis	荔枝	6.0	220	6.5	Med	Fair	Fair	Poor	Low	multi-trunks, trunk conflict with structure
T16	Litchi chinensis	荔枝	5.0	180	5.0	Med	Fair	Fair	Poor	Low	multi-trunks
T17	Litchi chinensis	荔枝	6.0	160	5.0	Med	Fair	Fair	Fair	Low	
T18	Litchi chinensis	荔枝	5.0	210	4.0	Med	Fair	Fair	Poor	Low	multi-trunks, dead branch, trunk conflict with structure

Notes: Amenity Value, Form, Health Condition and Structural Condition of trees were obtained by Visual Assessment Only.



Appendix III – Photo Records

General View



General view 01



General View



General view 03



T1 (Overview)



T1 Multi-trunks







T3 (Overview)



T3 Epicormics at trunk



T4 (Overview)



T5 (Overview)



T5 Broken trunk







T6 Dead stub



T6 Dead trunk



T7 (Overview)



T7 Multi-trunks (Dead trunk)



T8 (Overview) (Dead tree)



T9 (Overview)



T9 Multi-trunks





T10 Multi-trunks



T11 (Overview)



T11 Multi-trunks





T12 Broken trunk



T13 (Overview)



T13 Broken trunk







T14 (Overview) (Dieback)



T14 Dieback



T14 Multi-trunks



T15 (Overview)



T15 Multi-trunks



T15 Trunk conflict with structure





T17 (Overview)



T18 (Overview)



T18 Dead branch



Γ18 Multi-trunks



T18 Trunk conflict with structure

Appendix V

Landscape plan



LANDSCAPE PLAN

APPLICATION SITE AREA

: 6,087 m²

NO. OF TREES TO BE PLANTED SPECIES OF NEW TREES HEIGHT OF NEW TREES SPACING OF NEW TREES

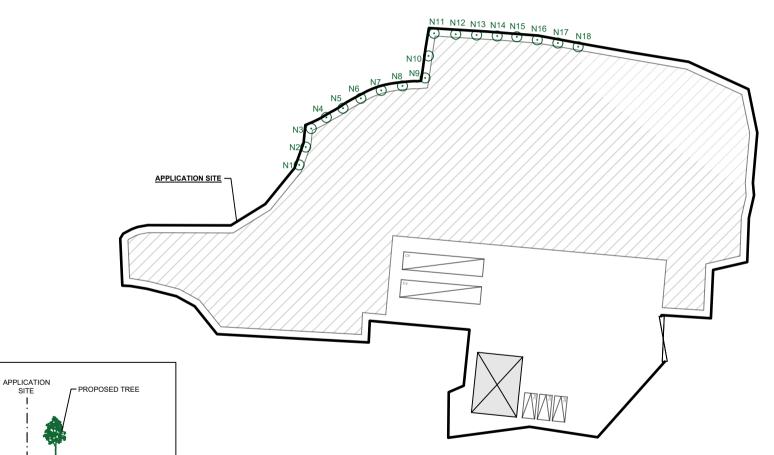
: 18 (T1 TO T18)

: ELAEOCARPUS CHINENSIS : NOT LESS THAN 2.75 m : NOT LESS THAN 4 m

(ABOUT)

DIMENSION OF TREE PITS : 1.2 m (W) X 1.2 m (L) X 1.2 m (D)







PROPOSED TEMPORARY OPEN STORAGE OF CONSTRUCTION MATERIALS AND MACHINERY WITH ANCILLARY FACILITIES AND ASSOCIATED FILLING OF LAND AND POND FOR A PERIOD OF 3 YEARS

SITE LOCATION

VARIOUS LOTS IN D.D. 109 AND ADJOINING GOVERNMENT LAND, KAM TIN, YUEN LONG, NEW TERRITORIES

1:750 @ A4

13.10.2025 MN REVISED BY

001

LANDSCAPE PLAN APPENDIX V

LEGEND

APPLICATION SITE STRUCTURE OPEN STORAGE AREA PARKING SPACE (PC) L/UL SPACE (CV) INGRESS / EGRESS • PROPOSED TREES

THE APPLICANT WILL REPLACE TREES WHICH

APPROVAL PERIOD.

NOTES:

ARE DYING OR DEAD DURING THE PLANNING APPROVAL PERIOD.

THE APPLICANT WILL MAINTAIN TREES IN

GOOD CONDITION DURING THE PLANNING

THE APPLICANT WILL PROVIDE ADEQUATE IRRIGATION FOR TREES.

TYPICAL SECTION

(INDICATIVE ONLY)

DIMENSIONS OF

1200mm (W) x 1200mm (D)

TREE TRENCH:

DRAINAGE -

U-CHANNEL