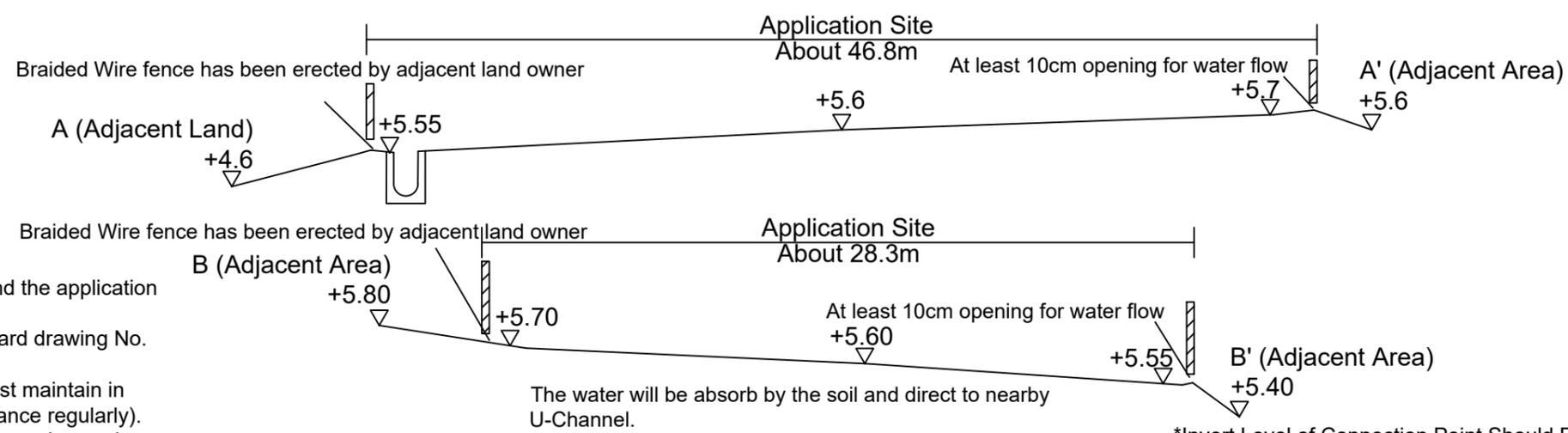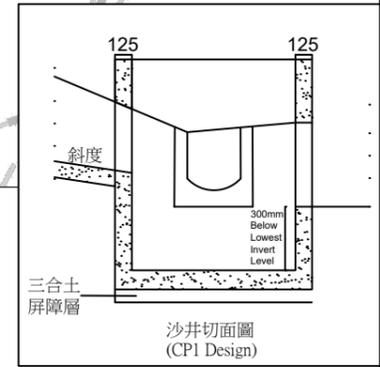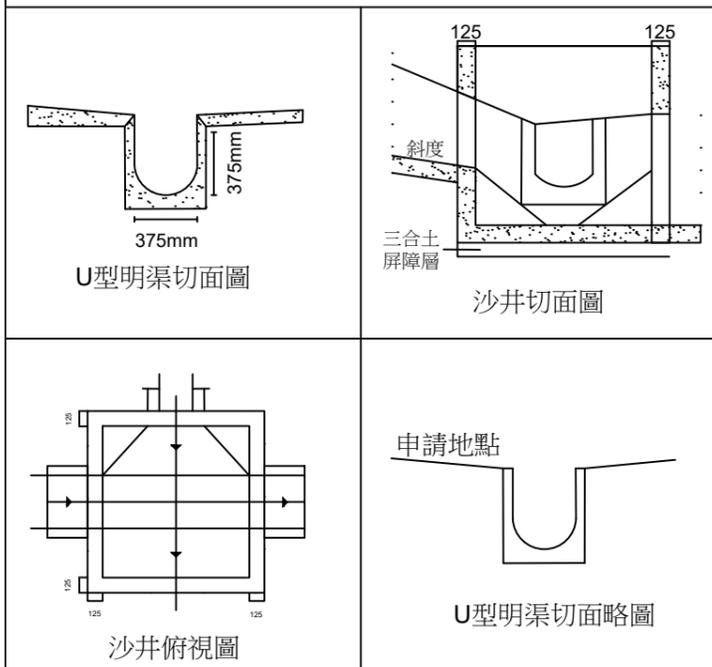|	
寄件日期:	2025年09月11日星期四 11:58
收件者:	tpbpd/PLAND
副本:	Yen PY LEUNG/PLAND; Jet Sze Jet CHEUNG/PLAND
主旨:	Fw: S. 16 Planning Application No. A/YL-KTN/1160
附件:	AYL-KTN 1160 20250910.pdf

From: Tang Lok San ███████████████████

Andrea,

Thank you for the phone call. Please see the attachment for the Fire Service Installation Proposal and Drainage Proposal. Please contact Mr. Tang via email █████████████████████ if you have any questions regarding to the captioned application.

Yours sincerely,
Mr. Tang

Connection Detail

Proposed UChannel | Existing 0.85m (D) x 0.85m (W) Channel

+5.46
+5.07
Fall
+3.75

U型明渠切面圖

沙井切面圖

斜度
三合土屏障層

沙井俯視圖

U型明渠切面略圖

申請地點

125 | 125
375mm
375mm

Drainage Plan

*972 RP
971 RP
*1050
*1047 RP
1049 RP
1052 RP
1031
1033 RP
1048
TS
Fall
C.L.: mPD +5.7
I.L.: mPD +5.325
B
1032
About 20m
375mm U.C.
1:200
1027
Fall
About 11.5m
375mm U.C.
1:200
C.L.: mPD +5.7
I.L.: mPD +5.325
973 RP
CP3
C.L.: mPD +5.6
I.L.: mPD +5.225
1034 RP
A
Fall
A'
Fall
TS
Fall
About 20.8m
375mm U.C.
1:200
1026 RP
About 2m
375mm PVC Tube
CP1
C.L.: mPD +5.46
I.L.: mPD +5.08
CP2
About 7.8m
375mm U.C.
1:200
C.L.: mPD +5.49
I.L.: mPD +5.121
B'
D D 1 0 7
Application Site
(For Identification Only)

斜度
三合土屏障層
125 | 125
300mm Below Lowest Invert Level
沙井切面圖
(CP1 Design)

Cross Section A-A'

Application Site
About 46.8m

Braided Wire fence has been erected by adjacent land owner

At least 10cm opening for water flow

A (Adjacent Land)
+4.6
+5.55
+5.6
+5.7
A' (Adjacent Area)
+5.6

Cross Section B-B'

Application Site
About 28.3m

Braided Wire fence has been erected by adjacent land owner

B (Adjacent Area)
+5.80
+5.70
At least 10cm opening for water flow
+5.60
+5.55
B' (Adjacent Area)
+5.40

The water will be absorb by the soil and direct to nearby U-Channel.

*Invert Level of Connection Point Should Be Verified On Site Before Construction.
*Cover Level Are Indicative Only Which Should Be Verified On Site.

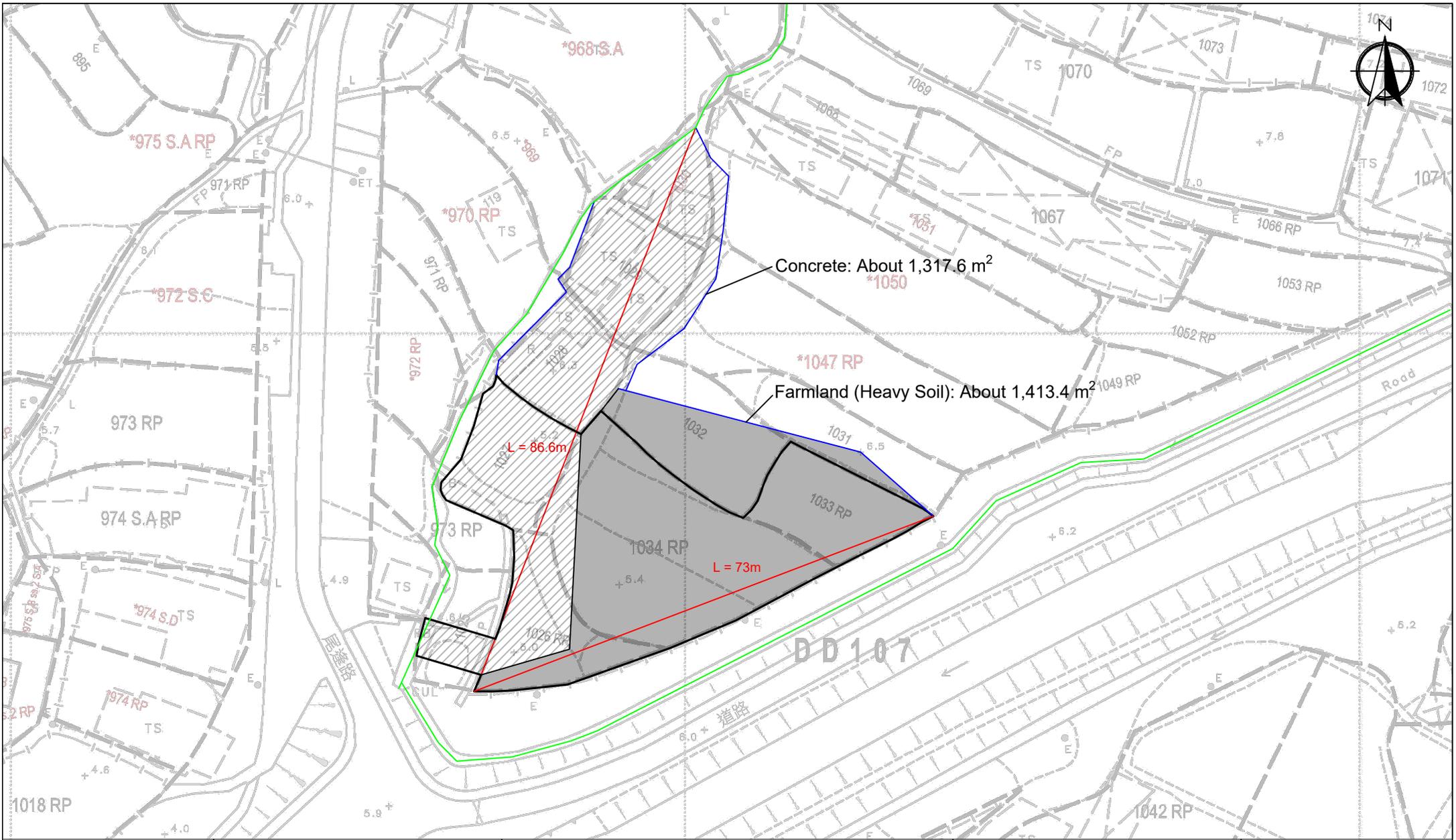## Legend:

☐ Proposed Catchpit
— Proposed U-Channel
▶ Water Flow
— Existing Channel

Note:
1. Adequate opening will be provided around the application site.
2. Catchpit design shall follow CEDD standard drawing No. C2406I.
3. All proposed U-channel and Catchpit must maintain in good shape (i.e. Inspection and maintenance regularly).
4. Grating Cover is provided to reduce the irregular road surface from entering the site.

| Appendix 6 | Location: D.D. 107 Lot 1025 (Part), 1026 RP, 1027 (Part), 1033 RP and 1034 RP OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture | 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 | Proposed Drainage Plan and Cross Section | Scale: 1:500 @A4 | Drawing No. 6-01 For Identification Only Date: 10 September 2025 |

Concrete: About 1,317.6 m²

Farmland (Heavy Soil): About 1,413.4 m²

L = 86.6m

L = 73m

D D 107

| Appendix 6.2 Catchment Area | Location: D.D. 107 Lot 1025 (Part), 1026 RP, 1027 (Part), 1033 RP and 1034 RP OZP: S/YL-KTN/11 District: Kam Tin North Zoning: Agriculture | 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 | Around 2,731 m² Scale: 1:750 @A4 | Drawing No.: 6.2-1 For Identification Only Date: 10/09/2025 |

Viewing Point 1

Viewing Point 3
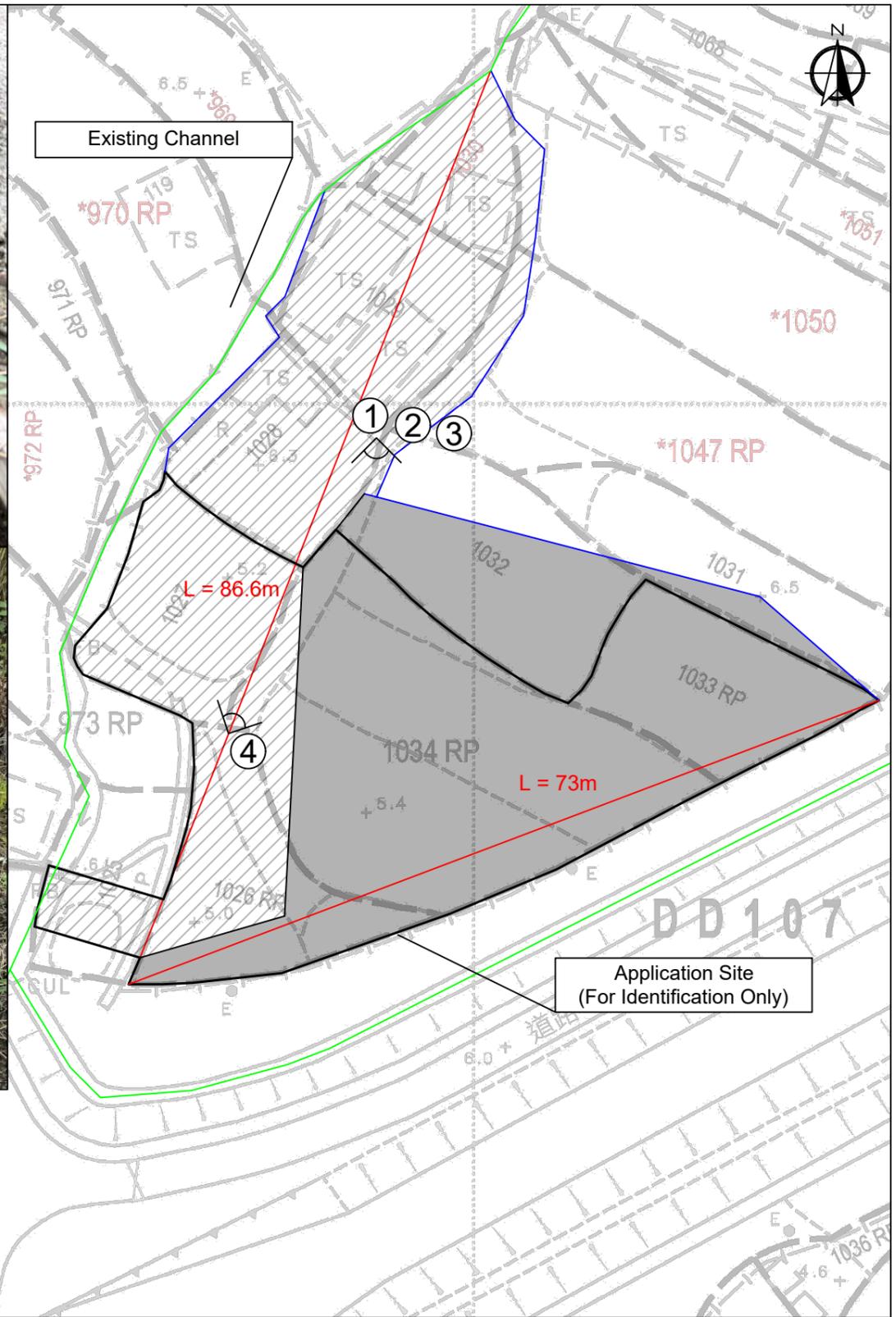

Viewing Point 2

Viewing Point 4

Existing Channel

L = 86.6m

L = 73m

① ② ③

④

Application Site
(For Identification Only)

D D 107

Legend:

— Existing Channel

— Application Site

Captured from Lot index plan no. ags_S00000134500_0001

| Appendix 6.3 | Location: D.D. 107 Lot 1025 (Part), 1026 RP, 1027 (Part), 1033 RP and 1034 RP
OZP: S/YL-KTN/11
District: Kam Tin North
Zoning: Agriculture | 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 | Photos Record of Surroundings and Viewing Point | Scale: Undefined @A4 | Drawing No.
6.3-1
For Identification Only
Date: 10 September 2025 |

Catchment Area	=	1,317.6 m^2 (About)	C:	0.95 (Covered with Concrete)
	=	1413.4 m^2 (About)	C:	0.25 (Covered with Grassland (heavy soil)
	=	2,731.0 m^2 (About)		

Calculation of Desgin Runoff of the Proposed Development,

For the design of drains inside the site, For Concrete

$$Q_p = 0.278C\,I\,A$$

A = 1,317.6   m^2

= 1,317.6   m^2

= 0.0013176   km^2

$$t = 0.14465L/H^{0.2}A^{0.1}$$

$$= 0.14465*86.6/80^{0.2}*1317.6^{0.1}$$

= 6.810   min

$$i = 1.111*a/(t+b)^c$$

$$= 1.111*505.5/(6.81+3.29)^{0.355}$$

= 247.11271

(50 years return period, Table 3a, Corrigendum 2024, SDM) and (11.1% increase due to climate change)

Q = 0.278*0.95*247*1317.6/1000000

= 0.0859898   m^3/sec

= 5159   lit/min

Catchment Area	=	1,317.6 m^2	(About)	C:	0.95 (Covered with Concrete)
	=	1413.4 m^2	(About)	C:	0.25 (Covered with Grassland (heavy soil)
	=	2,731.0 m^2	(About)		

Calculation of Desgin Runoff of the Proposed Development,
For the design of drains inside the site, For Grassland (Heavy Soil)

$$Q_p = 0.278 C\, I\, A$$

$$A = 1,413.4 \quad m^2$$
$$= 1,413.4 \quad m^2$$
$$= 0.0014134 \quad km^2$$

$$t = 0.14465 L / H^{0.2} A^{0.1}$$
$$= 0.14465 * 73 / 80^{0.2} * 1413.4^{0.1}$$
$$= 5.701 \quad min$$

$$i = 1.111 * a / (t+b)^c$$
$$= 1.111 * 505.5 / (5.701 + 3.29)^{0.355}$$
$$= 257.53621$$

(50 years return period, Table 3a,
Corrigendum 2024, SDM) and
(11.1% increase due to climate change)

$$Q = 0.278 * 0.25 * 258 * 1413.4 / 1000000$$
$$= 0.0252981 \quad m^3/sec$$
$$= 1518 \quad lit/min$$

Total Rainfall lit/min	= 5159	+ 1518	lit/min
Catchment	= 6677		lit/min

Provide 375UC (1:200) has enough capacity to accomend the runoff of the Catchment area

Check 375mm dia. Pipes by Colebrook-White Equation

By Colebrook White Equation

$$V = -\sqrt{(8gDs)}\, \log\left(\frac{k_s}{3.7D} + \frac{2.51v}{D\sqrt{(2gDs)}}\right)$$

where:

V	=	mean velocity (m/s)		
g	=	gravitational acceleration (m/s²)		
D	=	internal pipe diameter (m)		
k_s	=	hydraulic pipeline roughness (m)	(Table 14, from DSD SDM 2018, concrete pipe)
v	=	kinematic viscosity of fluid (m²/s)	(Transitional flow and water at 15 degree celcius)
s	=	hydraulic gradient (energy loss per unit length due to friction)	

g	=	9.81	m/s²
D	=	0.375	m
k_s	=	0.00015	m
v	=	1.14E-06	m/s²
s	=	0.01	

Therefore, design V of pipe capacit = 2.0971193 m/s

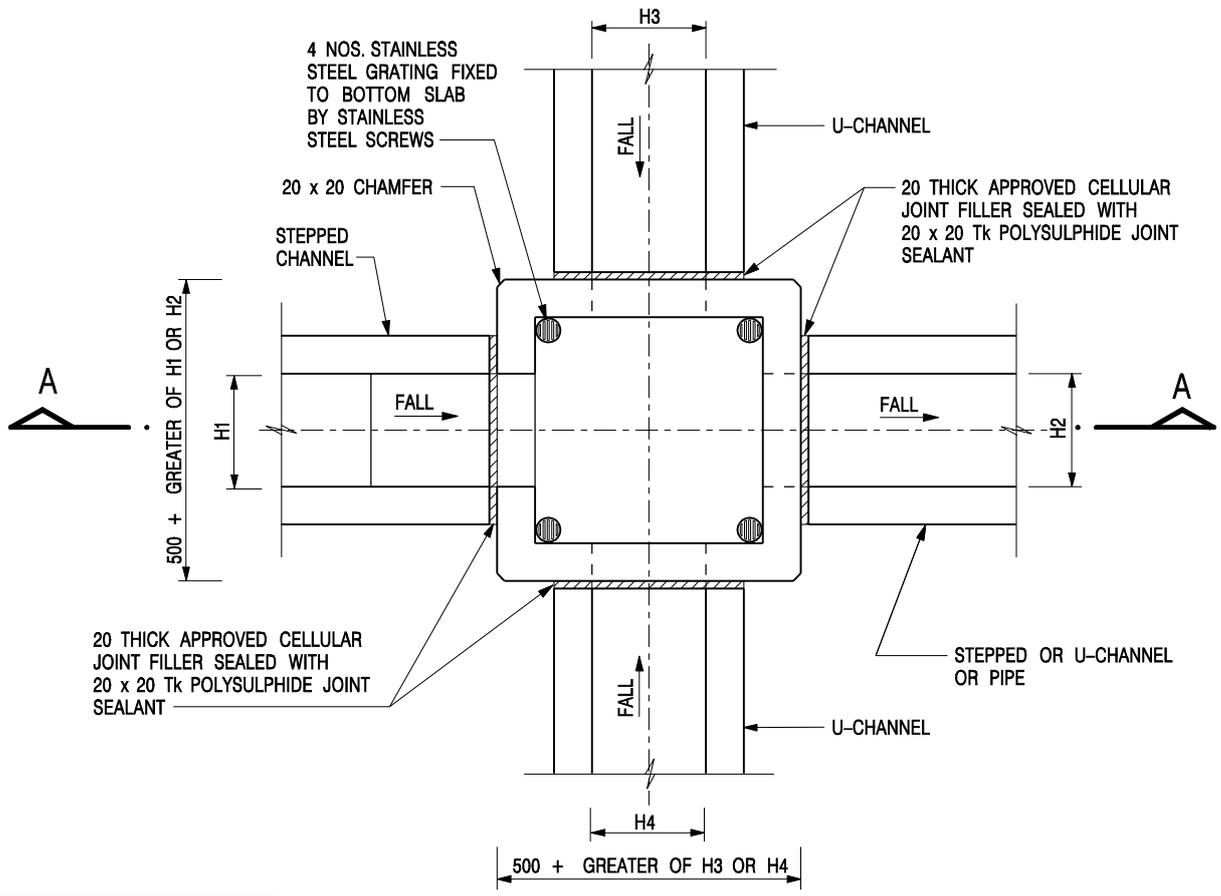|				
Q	=	0.8VA		(0.8 factor for sedimentation)
	=	0.2106109	m³/s	
	=	12637	lit/min	
	>	6677	lit/min	

Provide 375mm dia. pipe (1:200) has enough capacity to accomend the runoff of the proposed development

Geotechnical Engineering Office, Civil Engineering and Development Department
The Government of the Hong Kong Special Administrative Region

GEO Technical Guidance Note No. 43 (TGN 43)
Guidelines on Hydraulic Design of U-shaped and Half-round Channels on Slopes

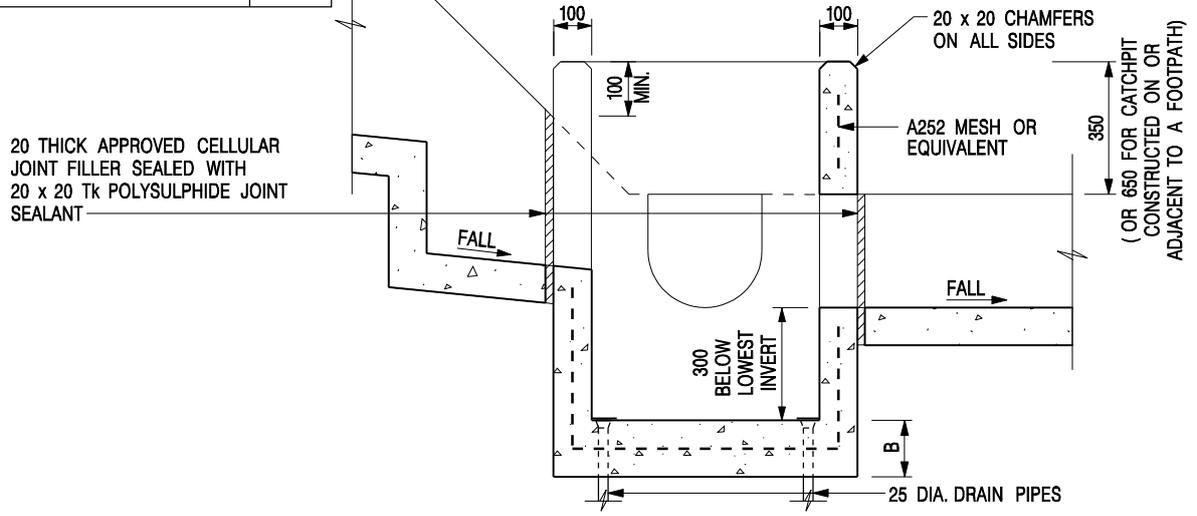| Issue No.: 1 | Revision: - | Date: 05.06.2014 | Page: 3 of 3 |

Figure 1 - Chart for the rapid design of U-shaped and half-round channels up to 600 mm
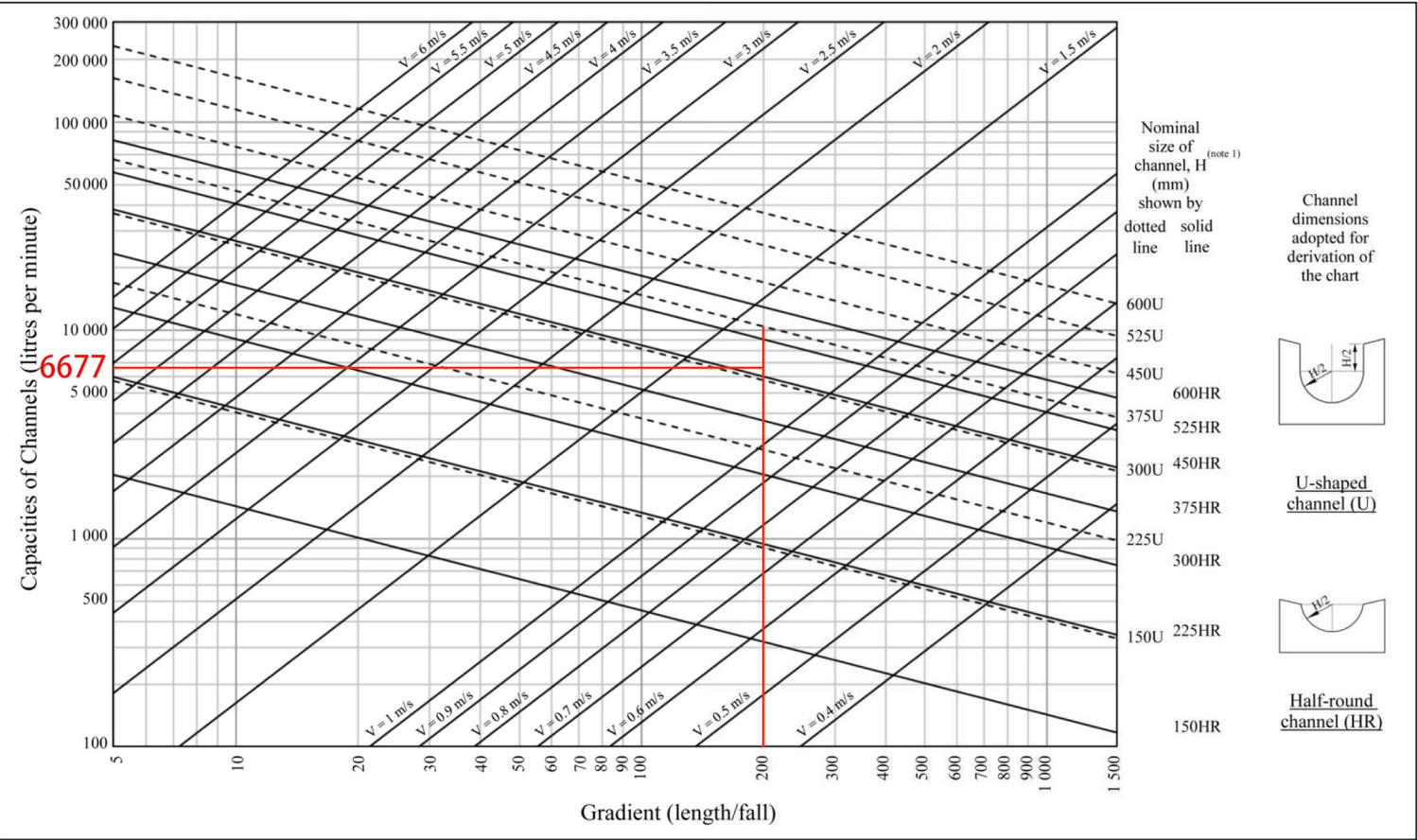
Note: (1) Refer to the latest CEDD Standard Drawings for the details of U-shaped (U) and half-round (HR) channels.

PLAN

NOMINAL SIZE (LARGEST OF H1, H2, H3 & H4)	B
300 – 600	150
675 – 900	175

4 NOS. STAINLESS STEEL GRATING FIXED TO BOTTOM SLAB BY STAINLESS STEEL SCREWS

20 x 20 CHAMFER

STEPPED CHANNEL

U-CHANNEL

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT

STEPPED OR U-CHANNEL OR PIPE

U-CHANNEL

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT

FALL

500 + GREATER OF H1 OR H2

500 + GREATER OF H3 OR H4

SECTION A - A

20 THICK APPROVED CELLULAR JOINT FILLER SEALED WITH 20 x 20 Tk POLYSULPHIDE JOINT SEALANT

20 x 20 CHAMFERS ON ALL SIDES

A252 MESH OR EQUIVALENT

350 (OR 650 FOR CATCHPIT CONSTRUCTED ON OR ADJACENT TO A FOOTPATH)
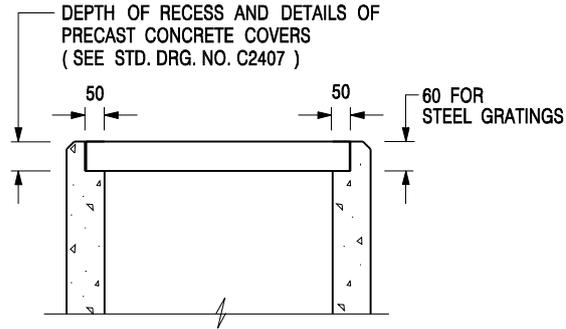
100 MIN.

300 BELOW LOWEST INVERT

25 DIA. DRAIN PIPES

FALL

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. REFER TO SHEET 2 FOR OTHER NOTES.

CATCHPIT WITH TRAP

(SHEET 1 OF 2)

DEPTH OF RECESS AND DETAILS OF
PRECAST CONCRETE COVERS
(SEE STD. DRG. NO. C2407)

50   50   60 FOR
                        STEEL GRATINGS

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.

6. 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.

8. FOR CATCHPITS CONSTRUCTED ON OR ADJACENT TO A FOOTPATH,
   STEEL GRATINGS (SEE DETAIL 'A' ON STD. DRG. NO. C2405) 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 'G'
   ON STD. DRG. NO. C2405; 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.

11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING,
    SEE DETAIL 'F' ON STD. DRG. NO. C2405.

12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS
    CAN ALSO BE USED AS COVERS / GRATINGS.

REF.	–	FORMER DRG. NO. C2406J.	Original Signed	03.2015
	REF.	REVISION	SIGNATURE	DATE

CATCHPIT WITH TRAP
(SHEET 2 OF 2)

CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO.
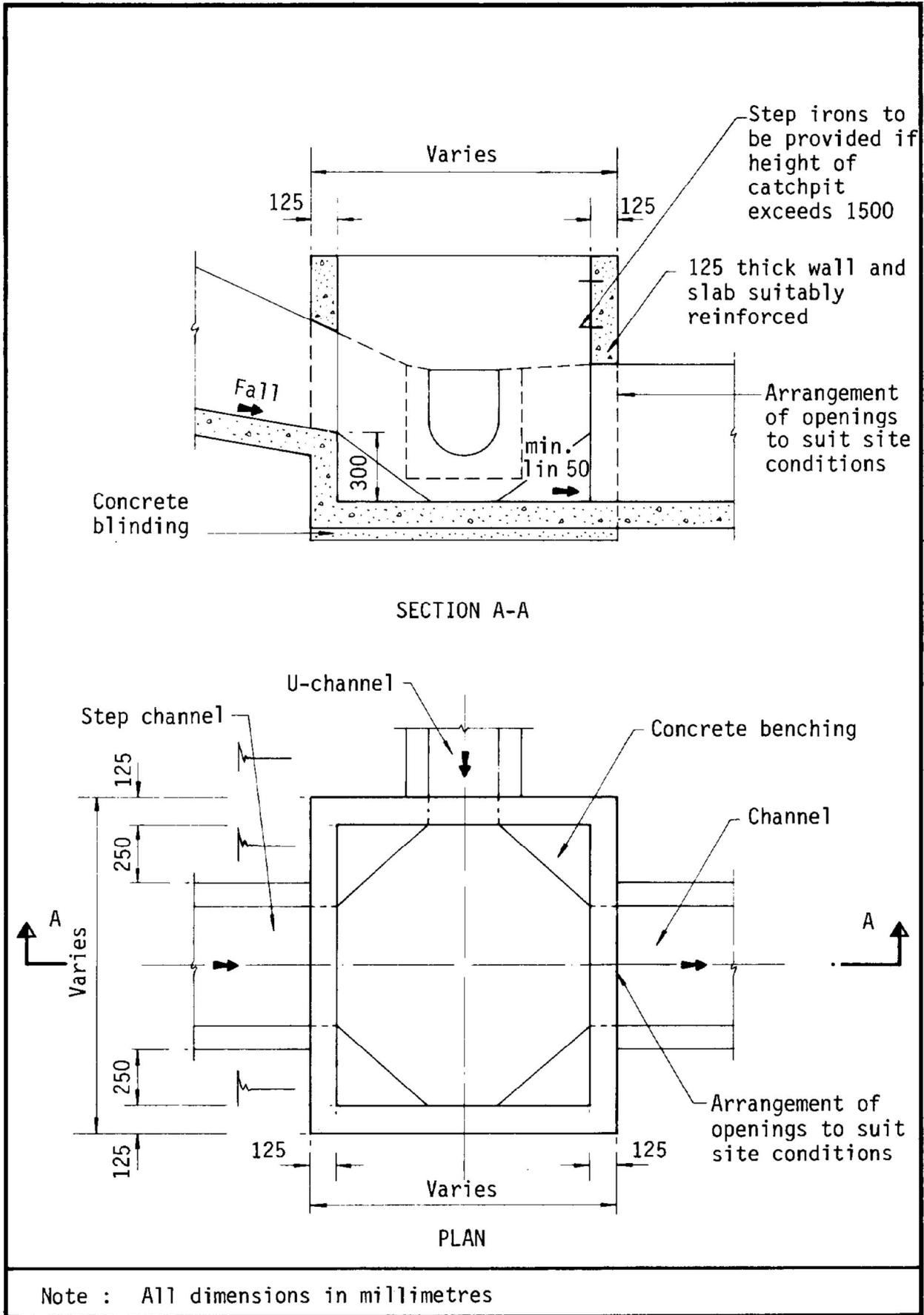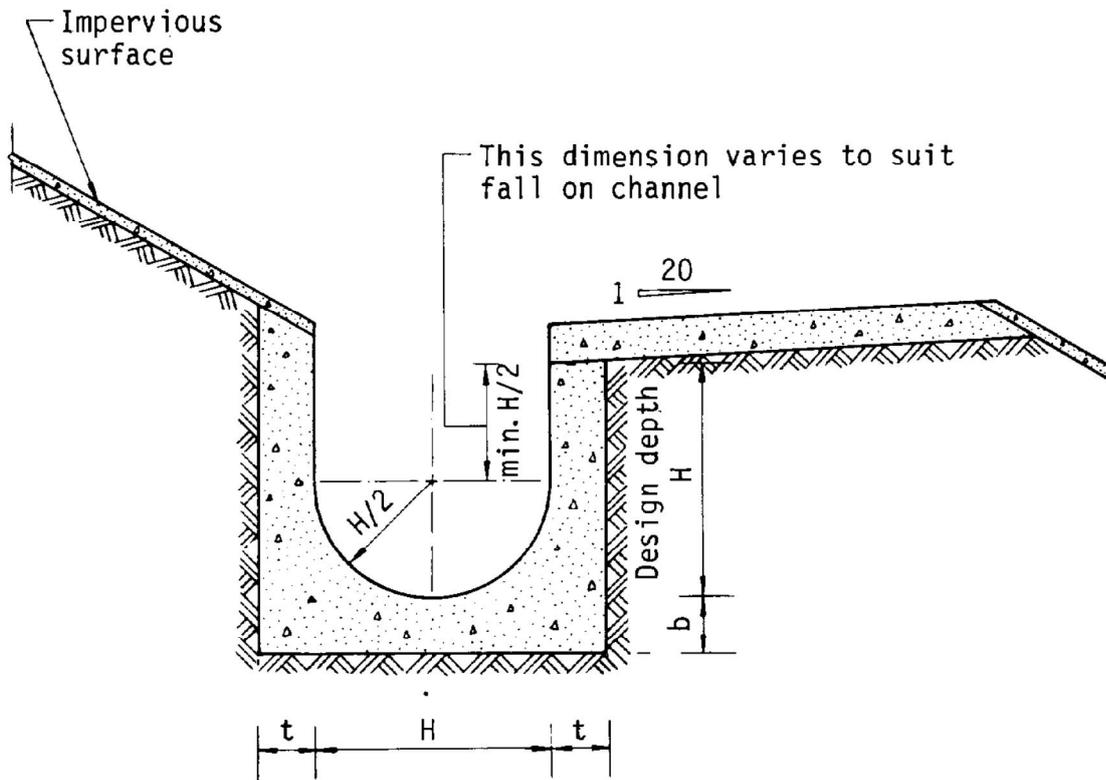C2406 /2

Step irons to be provided if height of catchpit exceeds 1500

125 thick wall and slab suitably reinforced

Varies

125

125

Fall

min. 1 in 50

300

Concrete blinding

Arrangement of openings to suit site conditions

SECTION A-A

U-channel

Step channel

Concrete benching

Channel

125

250

A

Varies

250

125

A

125

Varies

125

Arrangement of openings to suit site conditions

PLAN

Note :   All dimensions in millimetres

Figure 8.10 - Typical Details of Catchpits

Figure 8.11 - Typical U-channel Details

Dimensions of U - channel

Nominal size of channel H (mm)	Thickness t (mm)	Thickness b (mm)
225 to 600	150	150
675 to 1200	175	225

Table 3a – Storm Constants for Different Return Periods of HKO Headquarters

Return Period T (years)	2	5	10	20	50	100	200	500	1000
a	446.1	470.5	485.0	496.0	505.5	508.6	508.8	504.6	498.7
b	3.38	3.11	3.11	3.17	3.29	3.38	3.46	3.53	3.55
c	0.463	0.419	0.397	0.377	0.355	0.338	0.322	0.302	0.286

Table 3d – Storm Constants for Different Return Periods of North District Area

Return Period T (years)	2	5	10	20	50	100	200
a	439.1	448.1	454.9	462.3	474.6	486.6	501.4
b	4.10	3.67	3.44	3.21	2.90	2.67	2.45
c	0.484	0.437	0.412	0.392	0.371	0.358	0.348

Table 13 - Values of n to be used with the Manning equation

| Surface	Best	Good	Fair	Bad
Uncoated cast-iron pipe	0.012	0.013	0.014	0.015
Coated cast-iron pipe	0.011	0.012*	0.013*	
Commercial wrought-iron pipe, black	0.012	0.013	0.014	0.015
Commercial wrought-iron pipe, galvanized	0.013	0.014	0.015	0.017
Smooth brass and glass pipe	0.009	0.010	0.011	0.013
Smooth lockbar and welded "OD" pipe	0.010	0.011*	0.013*	
Riveted and spiral steel pipe	0.013	0.015*	0.017*	
Vitrified sewer pipe	0.010	0.013*	0.015	0.017
Common clay drainage tile	0.011	0.012*	0.014*	0.017
Glazed brickwork	0.011	0.012	0.013*	0.015
Brick in cement mortar; brick sewers	0.012	0.013	0.015*	0.017
Neat cement surfaces	0.010	0.011	0.012	0.013
Cement mortar surfaces	0.011	0.012	0.013*	0.015
Concrete pipe	0.012	0.013	0.015*	0.016
Wood stave pipe	0.010	0.011	0.012	0.013
Plank flumes - Planed	0.010	0.012*	0.013	0.014
- Unplaned	0.011	0.013*	0.014	0.015
- With battens	0.012	0.015*	0.016	
Concrete-lined channels	0.012	0.014*	0.016*	0.018
Cement-rubble surface	0.017	0.020	0.025	0.030
Dry-rubble surface	0.025	0.030	0.033	0.035
Dressed-ashlar surface	0.013	0.014	0.015	0.017
Semicircular metal flumes, smooth	0.011	0.012	0.013	0.015
Semicircular metal flumes, corrugated	0.0225	0.025	0.0275	0.030
Canals and ditches				
1. Earth, straight and uniform	0.017	0.020	0.0225*	0.025
2. Rock cuts, smooth and uniform	0.025	0.030	0.033*	0.035
3. Rock cuts, jagged and irregular	0.035	0.040	0.045	
4. Winding sluggish canals	0.0225	0.025*	0.0275	0.030
5. Dredged-earth channels	0.025	0.0275*	0.030	0.033
6. Canals with rough stony beds, weeds on earth banks	0.025	0.030	0.035*	0.040
7. Earth bottom, rubble sides	0.028	0.030*	0.033*	0.035
Natural-stream channels				
1. Clean, straight bank, full stage, no rifts or deep pools	0.025	0.0275	0.030	0.033
2. Same as (1) but some weeds and stones	0.030	0.033	0.035	0.040
3. Winding some pools and shoals, clean	0.033	0.035	0.040	0.045
4. Same as (3), lower stages, more ineffective slope and sections	0.040	0.045	0.050	0.055

Table 13 (Cont'd)

Surface	Best	Good	Fair	Bad
5. Same as (3) some weeds and stones	0.035	0.040	0.045	0.050
6. Same as (4) stony sections	0.045	0.050	0.055	0.060
7. Sluggish river reach, rather weedy or with very deep pools	0.050	0.060	0.070	0.080
8. Very weedy reaches	0.075	0.100	0.125	0.150

Notes: [*]Values commonly used for design.

Proposed Structures Details

	Structures	Gross Floor Area (GFA)	Height (Not Exceeding)	No. of Storey	Unit(s)
A	Farm Lounge	About 9m x 6m = 54 m^2	4m	1	1
B	Ancillary Office	About 6m x 6m = 36 m^2	4m	1	1
	Total	About 90 m^2			
	Private Car Parking Space	5m x 2.5m			3
	LGV L/UL Space	7m x 3.5m			1

N
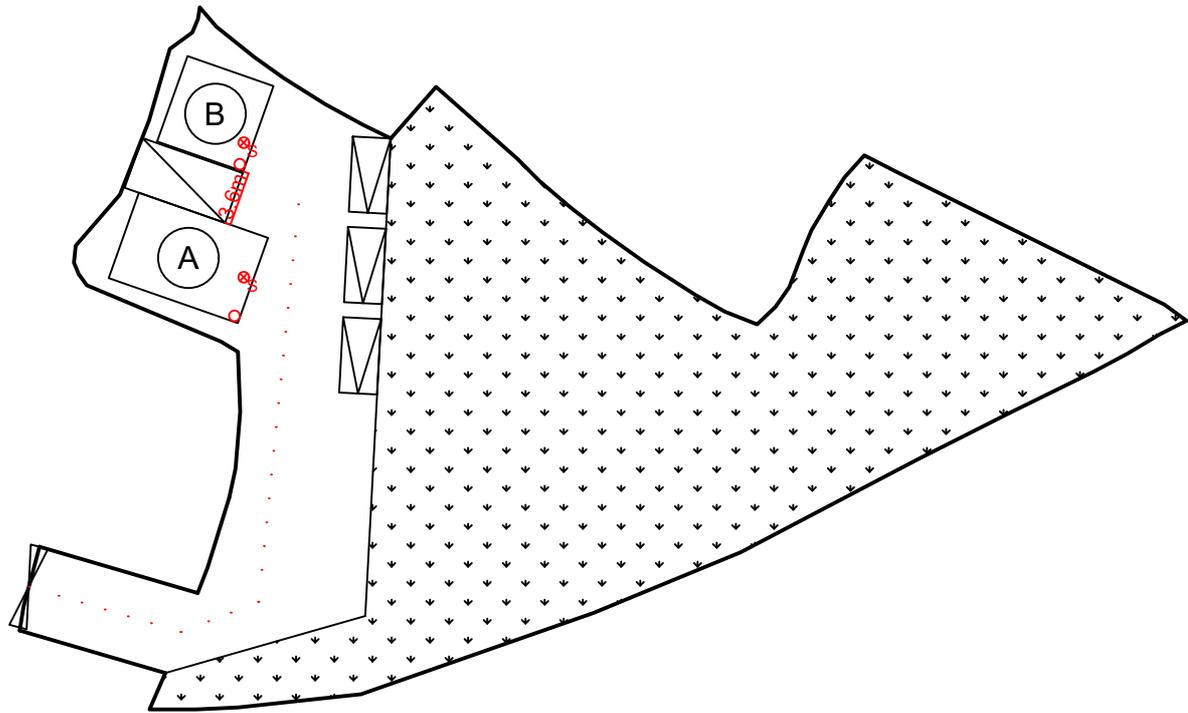
*All FSI (includes installation/maintenance/modification/repair work) will be completed by RFSIC.
 For Emergency Vehicular Access, Please see Appendix 7.1
*All the enclosed structures are provided with access for emergency vehicles to reach within 30m travel distance from the structures.

Legend:

○   3 kg Portable Dry Powder Type Fire Extinguisher (2 in Total)

⊗S   Stand-alone Fire Detector (Smoke Detector) (In accordance with the Stand-alone Fire Detector General Guidelines on Purchase, Installation & Maintenance [Sep 2021]) (2 in Total)

· · ·   Emergency Vehicular Access

▷   Private Car Parking Space

▱   LGV L/UL Space

| Location:	Appendix 7 DD 107 Lot 1025 (Part) DD 107 Lot 1026 RP DD 107 Lot 1027 (Part) DD 107 Lot 1033 RP DD 107 Lot 1034 RP	Proposed Fire Service Installation Plan 擬議消防設備安裝計劃圖 擬議臨時康體文娛場所（休閒農場） 連附屬設施及相關填土工程（為期5年） Proposed Temporary Place of Recreation, Sports or Culture (Hobby Farm) with Ancillary Facilities and Associated Filling of Land For a Period of 5 Years	SCALE 1:500 @A4
OZP:	S/YL-KTN/11		
District:	Kam Tin North		For Identification Only
Zoning:	Agriculture		
Date:	10 September 2025		Drawing No.: 7-01

MEI FUNG ROAD

ROAD TSUEN ROAD

Park Yoho Milano
Tower 36B

N
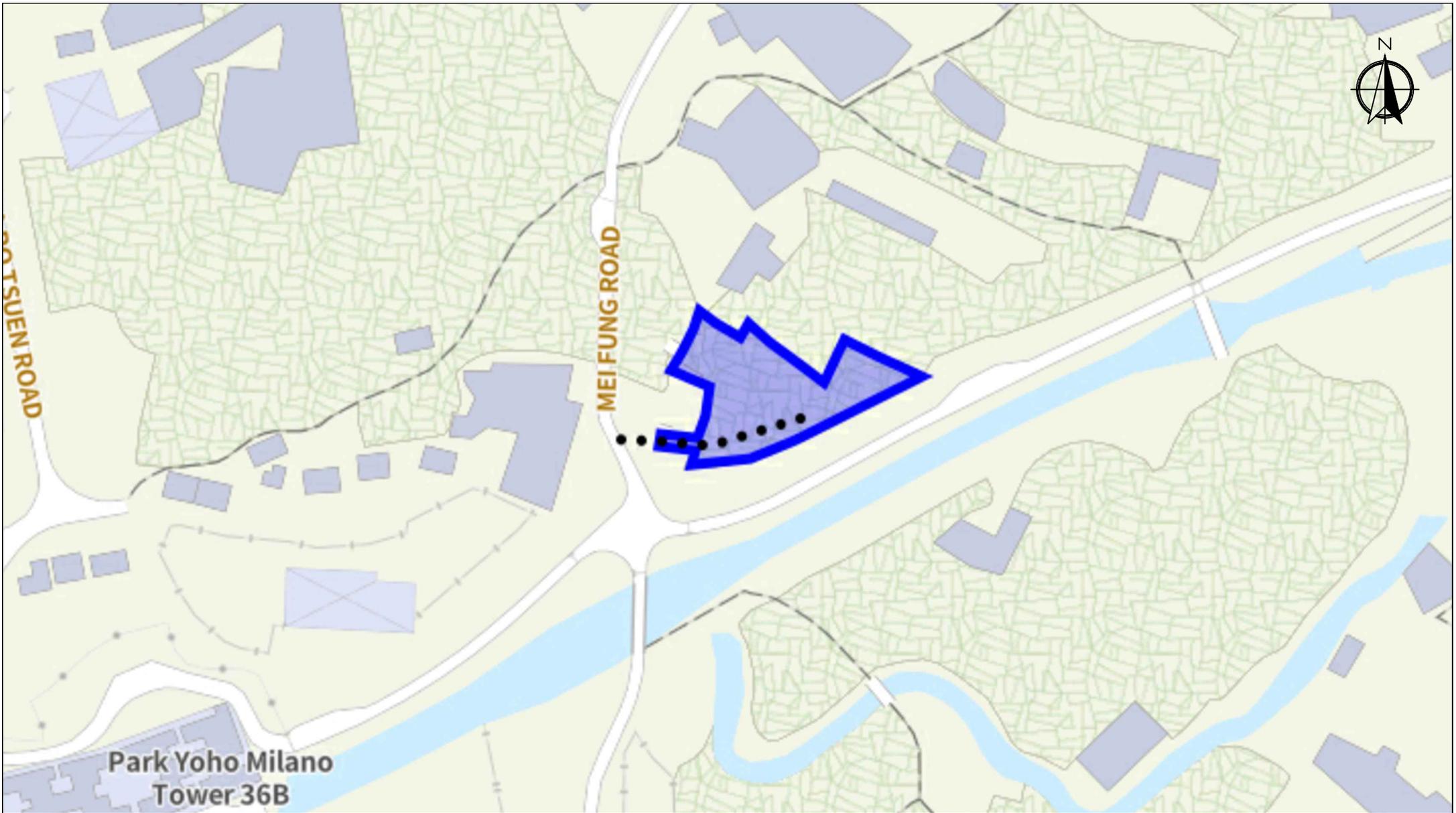
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Captured from map.gov.hk on 29th December 2024