

Our Ref.: YL/TPN/2402B/L02

29 September 2026

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

By Email

Dear Sir/Madam,

**Renewal of Planning Approval for
Temporary Shop and Services for a Period of 6 Years
Lot 4747 S.A RP(Part) in D.D. 116,
Tai Kei Leng, Yuen Long, New Territories
(Planning Application No. A/YL/336)**

We refer to the captioned planning application.

As requested by the Planning Department, we hereby submit a higher-resolution copy of the approved drainage proposal for previous application No. A/YL/267 (**Appendix 9** of the Planning Statement), to supersede our original submission dated 15 September 2026.

Should you have any queries, please feel free to call the undersigned or our Ms. Nora Choi at [REDACTED] Thank you for your attention.

Yours faithfully,
For and on behalf of
LANBASE SURVEYORS LIMITED

Anson Lee
AL/NC

Encl.

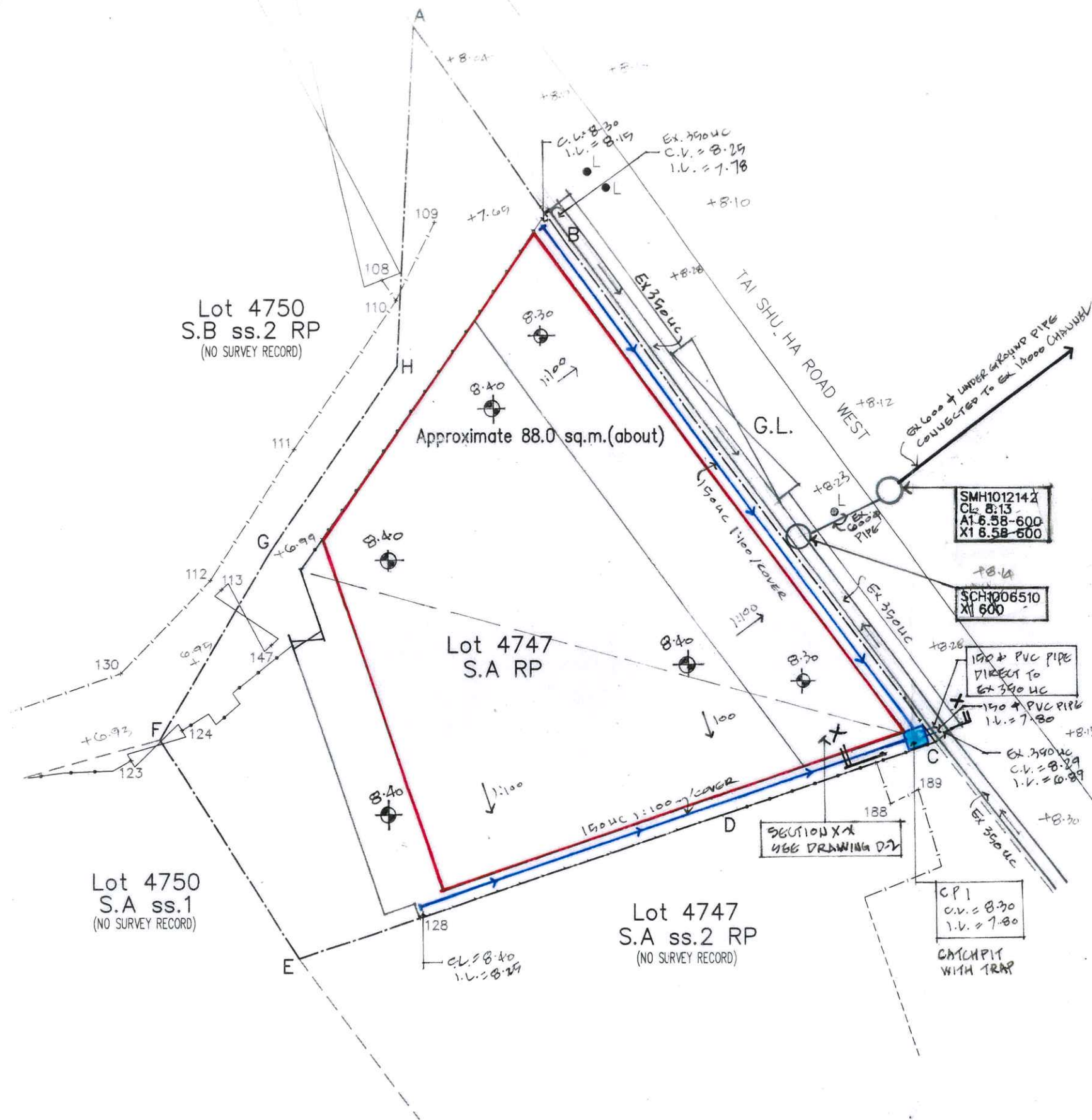
c.c. DPO/TMYLW - Mr. Kevin LAM (by Email only)



ISO 9001 : 2015
Certificate No.: CC 1687
(Valuation & Land Administration)



ISO 9001 : 2015
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BLOCK PLAN 1:1000

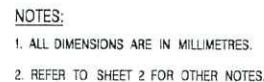
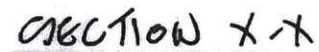
28 APR 2021

DRAINAGE PLAN 1:100

190 mm C.I. COVER U-CHANNEL (FALL 1:100)
 C.V. = COVER LEVEL I.V. = INVERT LEVEL

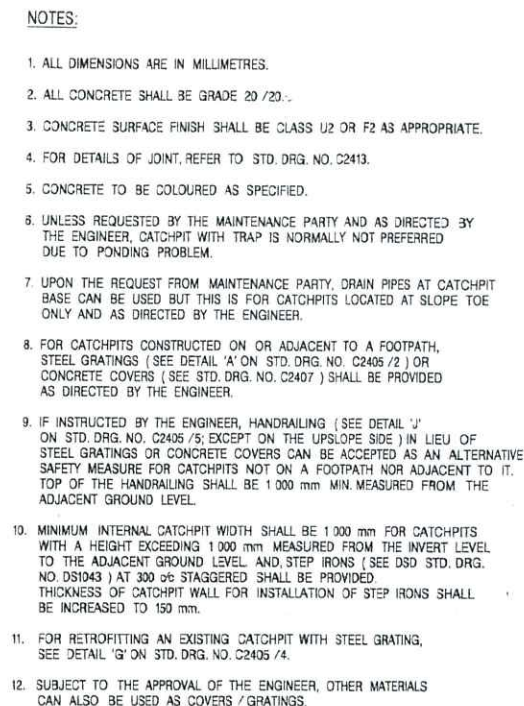
NEW LEVEL EXISTING LEVEL
 CP1 CATCHPIT NO. CP1

John Kwan Chi Ming Registered Professional Engineer	
PROPOSED DRAINAGE WORK at LOT 4747 S.A RP IN D.D.116 TAI KEI LENG, YUEN LONG	
Date: 24/4/2021	Drawing: D-1/4



CATCHPIT WITH TRAP
(SHEET 1 OF 2)

卓越工程 建設香港



CATCHPIT WITH TRAP
(SHEET 2 OF 2)

卓越工程 建設香港

28 APR 2021

Registered Professional Engineer

PROPOSED DRAINAGE WORK

at LOT 4747 S.A RP IN D.D.116

TAI KEI LENG, YUEN LONG

Date: 24/4/2024

Drawing: D-2

RATIONAL METHOD

Calculation of Flow Rate

Refer to the attached drawing no. SKETCH A

Channel	Catchment	Length L1 (m)	Length L2 (m)	Channel Gradient S (1 in)	Measured Catchment Area Am (m²)	Run off Coeff C	Catchment Ave Slope H (m per 100 m)	Inlet Time to (mins)	Travel Time to (mins)	Time of Conc. to (mins)	Rain Intensity i (mm/hr)	Required Flow Rate Q (req) (m³/s)	Channel Size D (mm)	Type	Free Board (mm)	Hydraulic Perimeter P (m)	Hydraulic Area Ah (m²)	Hydraulic Radius R = Ah/P (m)	Flow Vel Vf (m/s)	Flow Rate Q (des) (m³/s)	Ratio of Q(des)/Q(Areq)	Status (1*Q(Areq) < Q(des)?)	Remarks
UC 1	AR1	9	16	100	102	1	1	0.82	0.28	1.10	396.19	0.0112	150	Channel	50	0.29	0.01	0.04	0.96	0.01	1.08	OK !	

General Formulas :

- $S = (USIL - DSIL)/L$
- $to = 0.14465 \cdot L / (H^{0.2} \cdot A^{0.1})$
- $i = a / \{ (tc + b)^c \}$
- $Vf = (1/n) \cdot R^{2/3} \cdot S^{0.5}$
- $Q = Ah \cdot Vf$
- $tc = to + tf$

(I.D.F Relationship)
(Manning's formula)

i = extreme mean intensity in mm/hr, where a, b, and c are storm constants given in table 3 of Stormwater Drainage Manual by DSD

L = Distance in metres measured on the line of natural flow between the design section and that point of the catchment from which water would take the longest time to reach the design section.

Note : Equation 2-5 from Geotechnical Manual For Slopes

Filename : A200a/b

Pipe Checking

Using The Colebrook-White Equation

$$\begin{aligned} \text{roughness factor (n)} &= 0.013 \\ \text{Roughness (Ks)} &= 0.6 \\ \text{Kinematic viscosity of fluid (v)} &= 1.141E-06 \text{ m}^2/\text{s (at Temp = 15}^\circ\text{C)} \end{aligned}$$

Pipe	Length L (m)	Pipe Gradient S (1 in)	Accumulated Flow Rate Q(Areq) (m³/s)	Pipe Size D (mm)	Hydraulic Perimeter P (m)	Hydraulic Area A (m²)	Flow Vel. Vf (m/s)	Flow Rate Q [des] (m³/s)	Rate of Q(Des)/Q (Areq)	Status (1.05Q(Areq) < Q(des)?)
Pipe A1	6.00	70.00	0.0112	150	0.47	0.02	1.22	0.02	1.91	OK !

General Formulas :

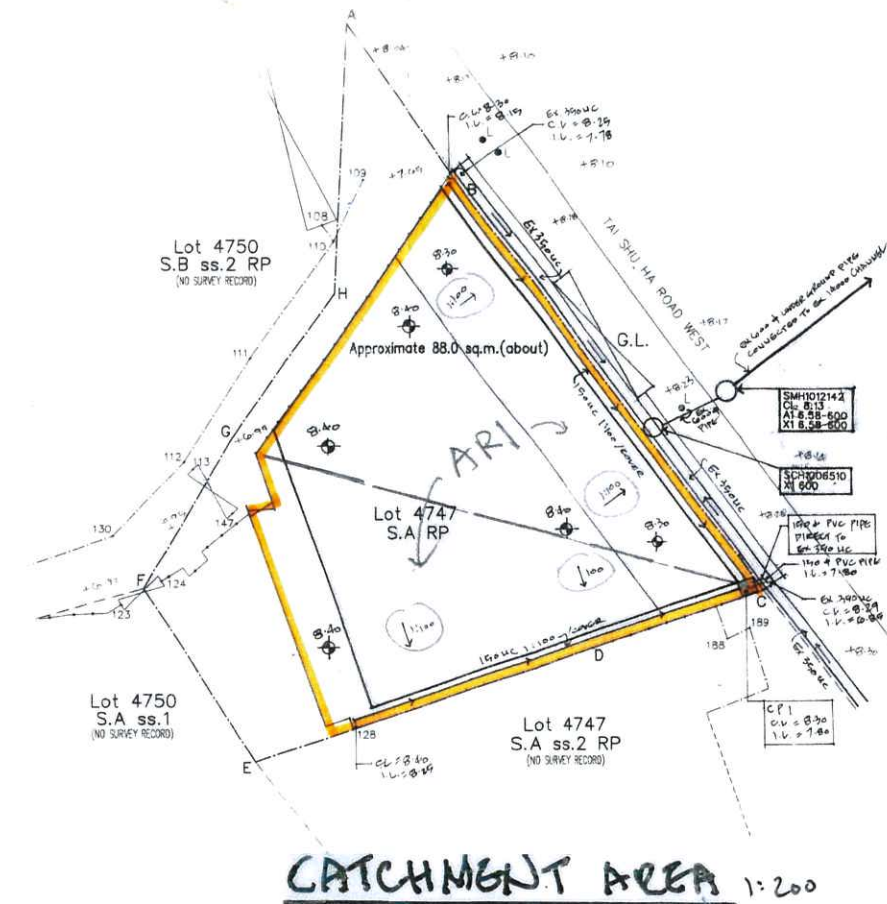
- $S = (USIL - DSIL)/L$
- $Vf = -2 \cdot (2 \cdot g \cdot D \cdot S)^{0.5} \cdot \log (Ks / (3.7 \cdot D) + 2.51 \cdot v / (2 \cdot g \cdot D \cdot S)^{0.5})$ (The Colebrook-White Equation)
- $Q = Ah \cdot Vf$

L = Distance in metres measured on the line of natural flow between the design section and that point of the catchment from which water would take the longest time to reach the design section.

File name : A10a/b

Note : Equation 3-6 from STORMWATER DRAINAGE MANUAL

CALCULATION



28 APR 2021

John Kwan Chi Ming

Registered Professional Engineer

PROPOSED DRAINAGE WORK

at LOT 4747 S.A RP IN D.D.116

TAI KEI LENG, YUEN LONG

Date: 24/4/2021

Drawing: D-40