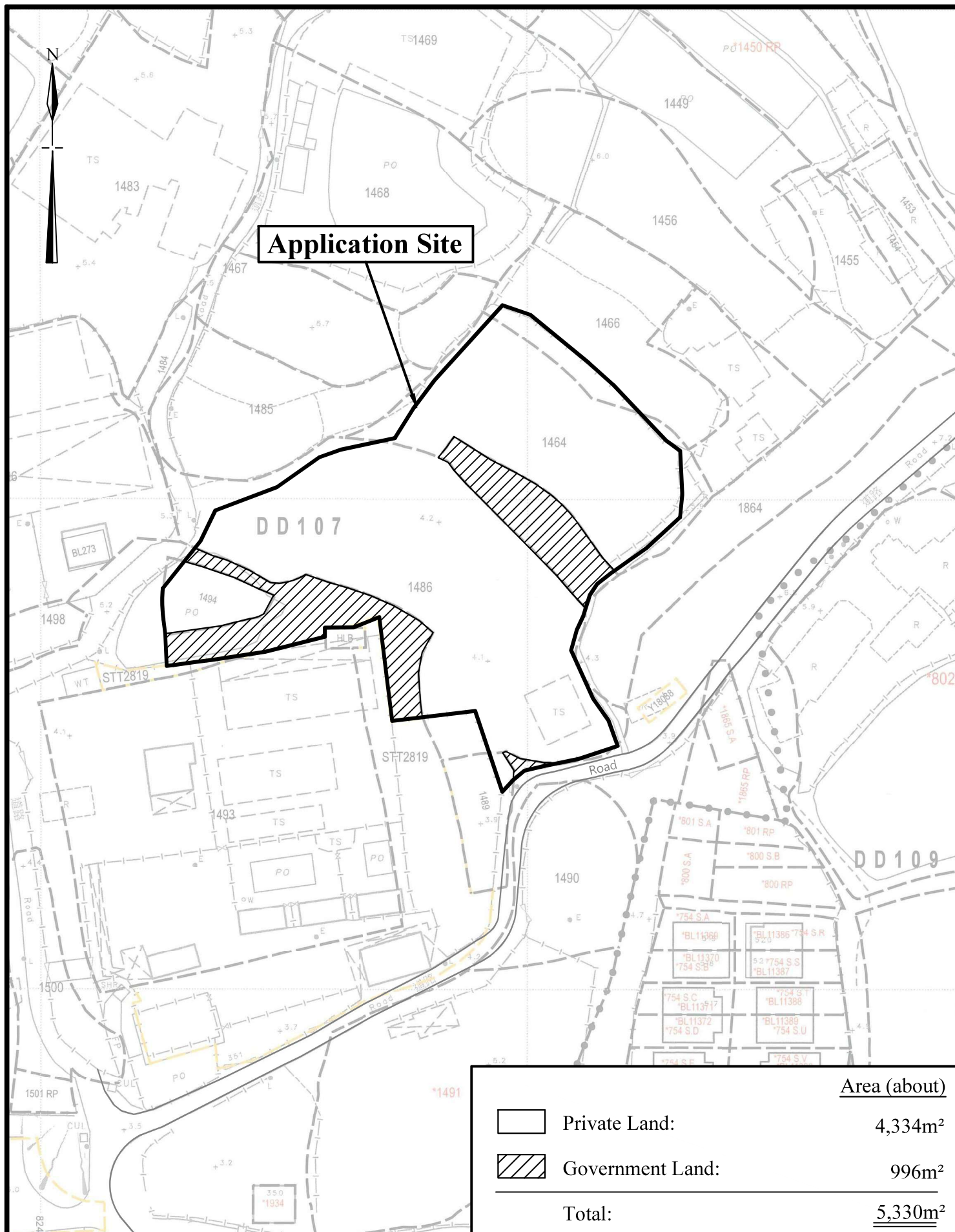


Application Site

Access Roads

Extracted from Approved Kam Tin North Outline Zoning Plan No. S/YL-KTN/11

Not to Scale	Location Plan Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part) and adjoining Government Land in D. D. 107 Yuen Long, New Territories	Goldrich Planners & Surveyors Ltd.
August 2025		Plan 1 (P 22034)



1 : 1000

Lot Index Plan

Goldrich Planners & Surveyors Ltd.

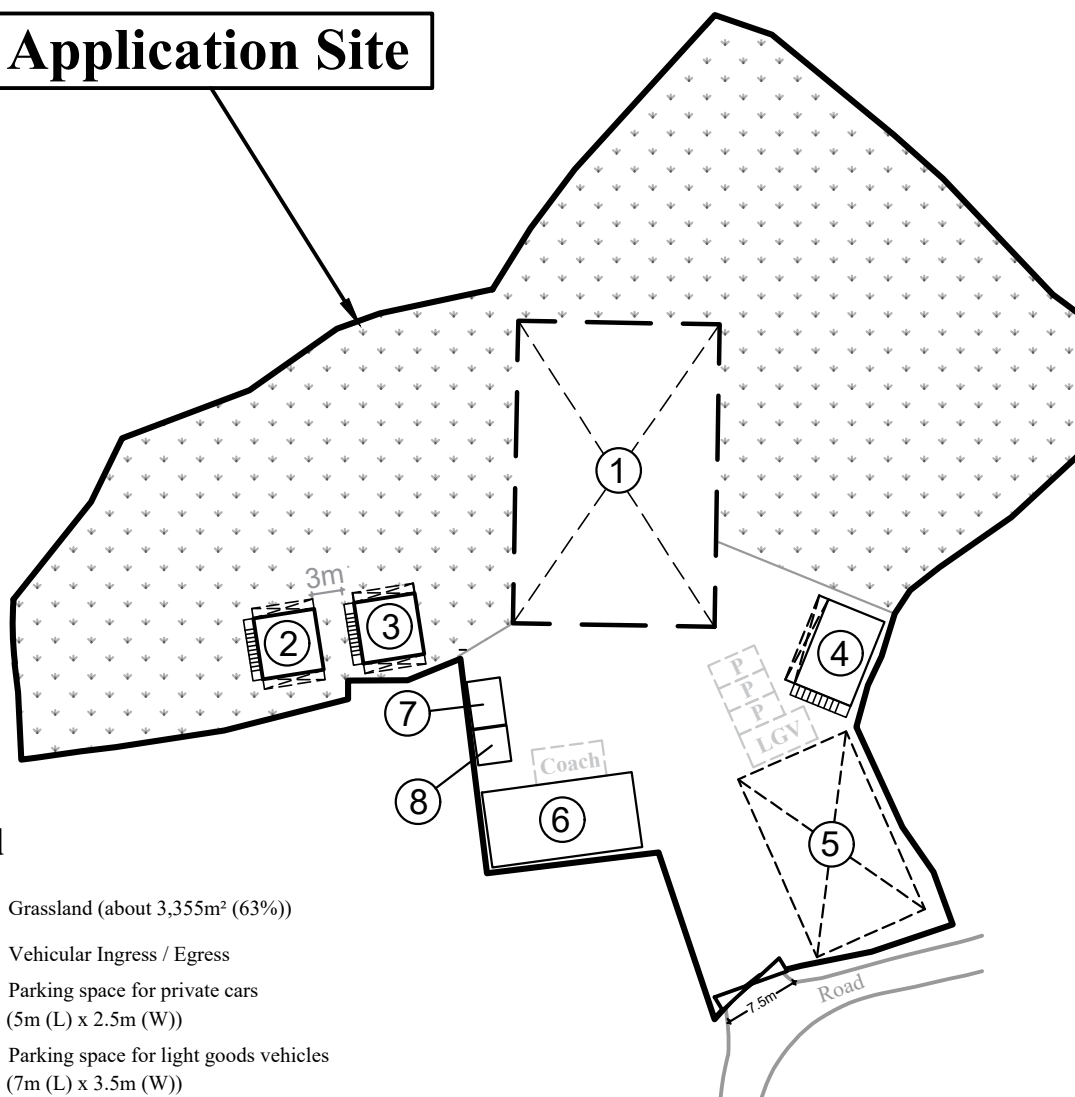
August 2025

**Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part)
and adjoining Government Land in D. D. 107
Yuen Long, New Territories**






**Plan 2
(P 22034)**



Application Site



Legend

-  Grassland (about 3,355m² (63%))
-  Vehicular Ingress / Egress
-  Parking space for private cars
(5m (L) x 2.5m (W))
-  Parking space for light goods vehicles
(7m (L) x 3.5m (W))
-  Parking space for coaches
(7m (L) x 3.5m (W))

Site Area: about 5,330m²

No.	Structure / Use	Floor Area (about)	Covered Area (about)	Height	No. of Storeys
1	Open Shed	600m ²	600m ²	7m	1
2	G/F: Multi-function Room (Animal activity room, social event room and ancillary office)	56m ²	56m ²	7m	2
	I/F: Roof	37m ²			
3	G/F: Multi-function Room (Animal activity room, social event room and ancillary office)	56m ²	56m ²	7m	2
	I/F: Roof	37m ²			
4	G/F: Multi-function Room (Animal activity room, social event room and ancillary office)	67m ²	67m ²	7m	2
	I/F: Roof	58m ²			
5	Open Shed	226m ²	226m ²	7m	1
6	Multi-function Room (Animal activity room, social event room and ancillary office)	225m ²	112.5m ²	7m	2
7	Toilet	15m ²	15m ²	5m	1
8	Toilet	12m ²	12m ²	5m	1
Total:		1,389m ²	1,144.5m ²		

1 : 750

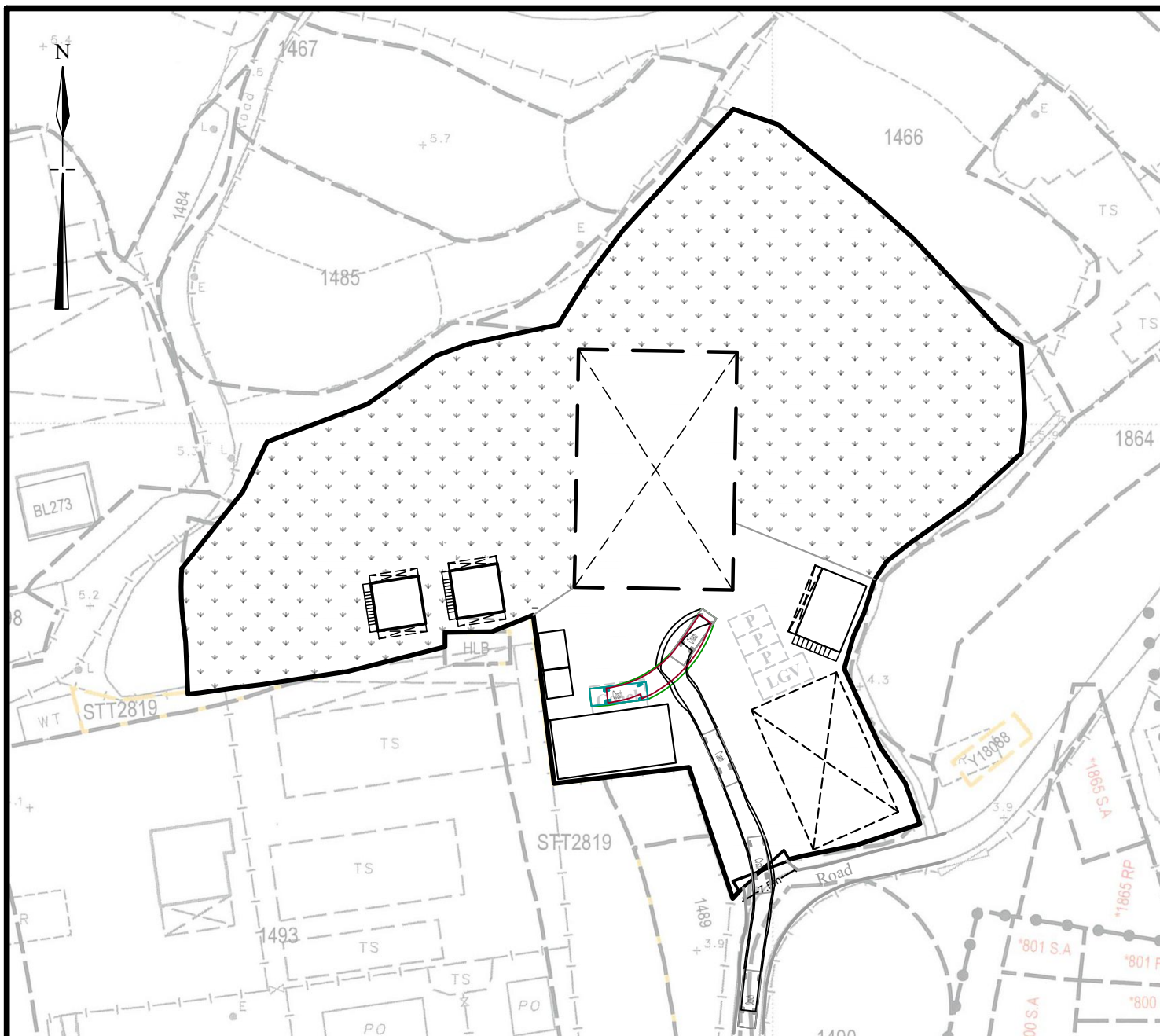
Layout Plan

Goldrich Planners &
Surveyors Ltd.






August 2025

Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part)
and adjoining Government Land in D. D. 107
Yuen Long, New Territories

Plan 3
(P22034)



Legend

-  Vehicular Ingress / Egress
-  Parking space for private cars
(5m (L) x 2.5m (W))
-  Parking space for light goods vehicles
(7m (L) x 3.5m (W))
-  Parking space for coaches
(7m (L) x 3.5m (W))
-  Coach
(7m (L) x 2.5m (W))

1 : 750

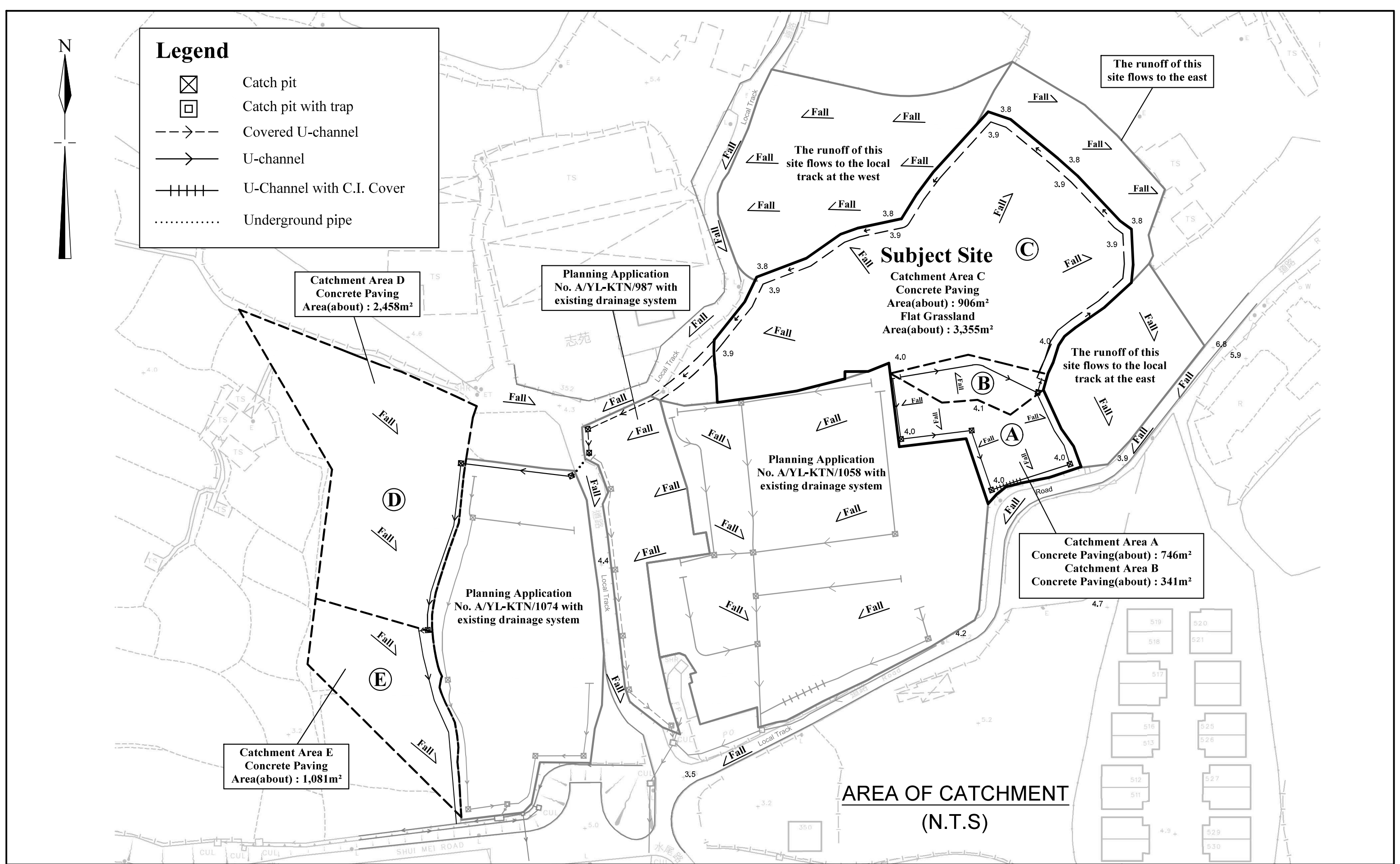
August 2025

Swept Path Analysis

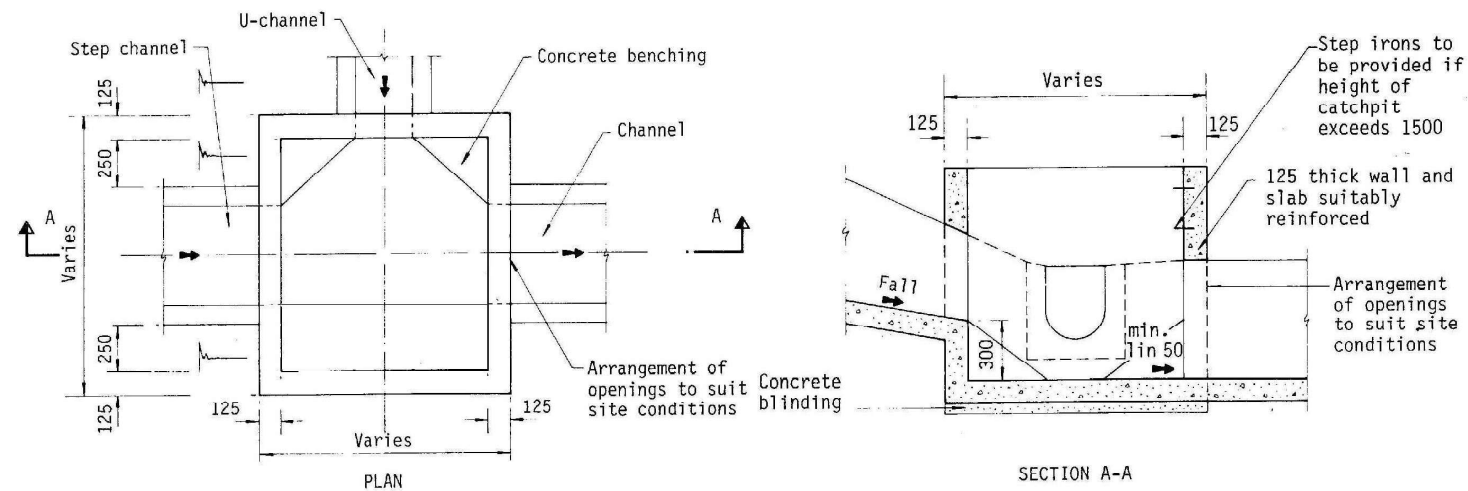
Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part)
and adjoining Government Land in D. D. 107
Yuen Long, New Territories

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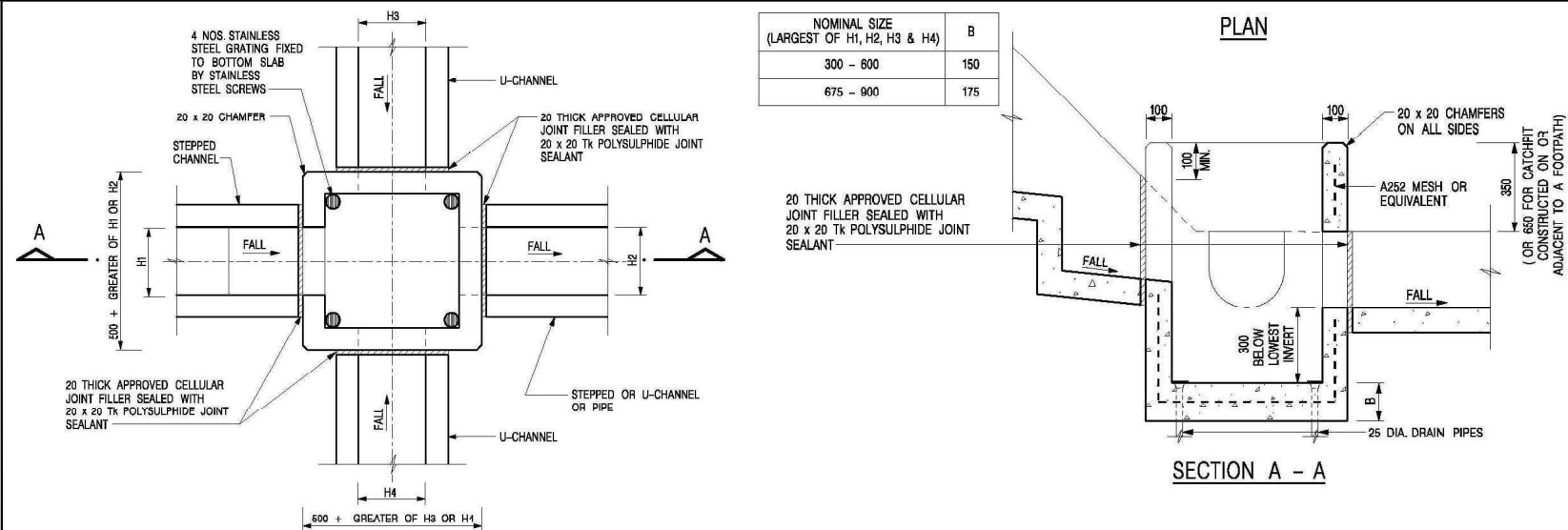
Plan 4
(P22034)



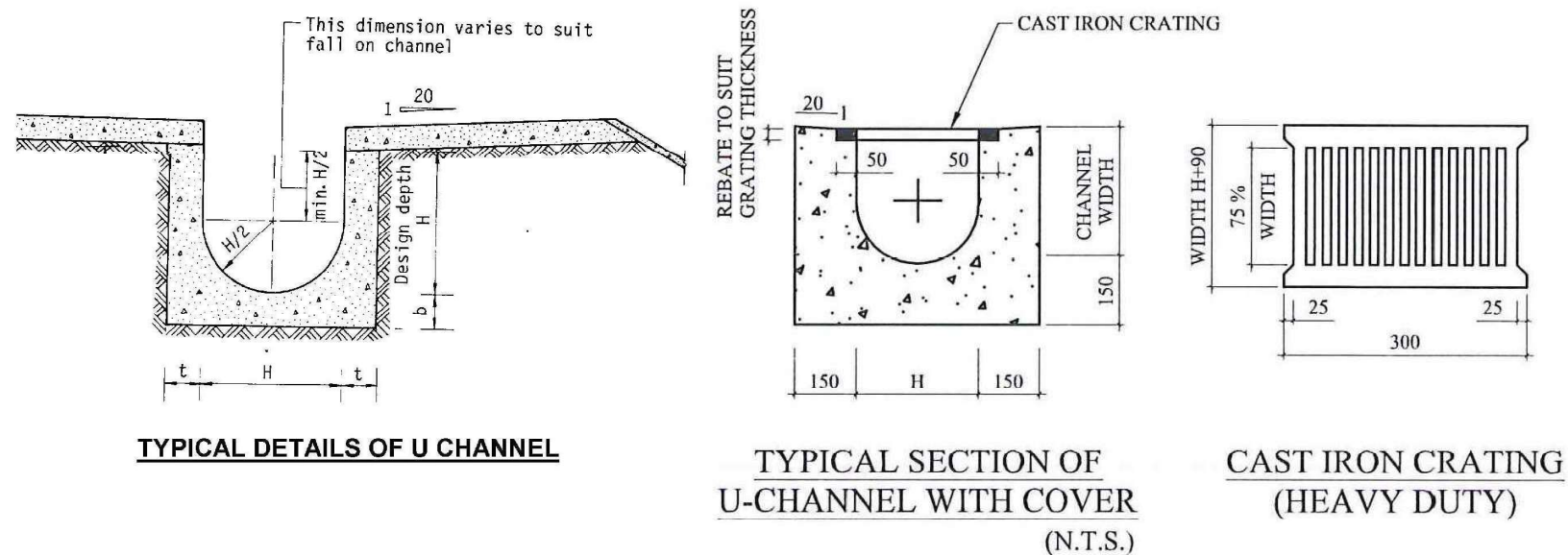
N.T.S	Drainage Proposal Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part) and adjoining Government Land in D. D. 107 Yuen Long, New Territories	Goldrich Planners & Surveyors Ltd.
August 2025		Plan 5.2 (P 22034)



TYPICAL DETAILS OF CATCHPIT



DETAILS OF CATCHPIT WITH TRAP
(REFER TO CEDD'S STANDARD DWG. C2406/1)



TYPICAL DETAILS OF U CHANNEL

TYPICAL SECTION OF U-CHANNEL WITH COVER
(N.T.S.)

CAST IRON CRATING (HEAVY DUTY)

N.T.S

August 2025

Drainage Proposal

Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part)
and adjoining Government Land in D. D. 107
Yuen Long, New Territories

Goldrich Planners &
Surveyors Ltd.

Plan 5.3
(P 22034)

1 For Catchment Area A		Ref.									
Area, A	= 742 m ²										
Average slope, H	= 0.1 m per 100m										
Distance on the line of natural flow, L	= 21 m										
Time of concentration, t ₀	= 0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (21) / (0.1 ^{0.2} *742 ^{0.1})	SDM 7.5.2 (d)									
	= 2.5 min										
2 For Existing U-Channel in catchment area A											
	<table><tr><td></td><td>From</td><td>To</td></tr><tr><td>Ground level (mPD)</td><td>4.00</td><td>4.00</td></tr><tr><td>Invert level (mPD)</td><td>3.70</td><td>3.37</td></tr></table>		From	To	Ground level (mPD)	4.00	4.00	Invert level (mPD)	3.70	3.37	
	From	To									
Ground level (mPD)	4.00	4.00									
Invert level (mPD)	3.70	3.37									
Width of u-channel, w	= 300 mm										
Length of u-channel, L _c	= 97.8 m										
Depth of vertical part of u-channel, d	= 476 mm										
Gradient of u-channel, S _f	= (3.7-3.374)/97.8 = 0.0033										
Cross-Section Area, a	= 0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 476										
	= 0.178 m ²										
Wetted Perimeter, p	= π r + 2 d = 3.14 x 150 + 2 x 476										
	= 1.423 m										
Hydraulic radius, R	= a / p	SDM 8.2.1									
	= 0.125 m										
3 Use Manning Equation for estimating velocity of stormwater											
Take n	= 0.016 for concrete lined channels:-	SDM Table 13									
Allowable velocity, v	= R ^{1/6} x (RS _f) ^{1/2} / n = (0.125) ^{1/6} x (0.125 x 0.003) ^{1/2} / 0.016	SDM Table 12									
	= 0.90 m/s										
Time of flow, t _f	= 1.8 min										
4 Use "Rational Method" for calculation of design flow											
Design intensity, i	= a / (t ₀ + t _f + b) ^c	SDM 4.3.2									
	= 505.5 / (2.9+0.5+3.29) ^{0.35} for return period T = 50 years	Corrigendum 1/2024									
	= 246	SDM Table 3a									
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)									
Flat Glassland(heavy soil)	0.25	0.0									
Concrete Paving	0.95	742.0									
		SUM = 704.9									
Upstream flow, Q _u	= 0 m ³ /s										
Design flow, Q _d	= 0.278i Σ C _f A _f + Q _u where A _f is in km ²	SDM 7.5.2 (a)									
	= 0.278 x 246 x 704.9 / 1000000 + 0										
	= 0.048 m ³ /s										
Allowable flow, Q _a	= a x v										
	= 0.178 x 0.9										
	= 0.161 m ³ /s										
	> Q _d (O.K.)										
Reference was made to Stormwater Drainage Manual (SDM) by DSD											

1 For Catchment Area B		Ref.									
Area, A	= 343 m ²										
Average slope, H	= 0.1 m per 100m										
Distance on the line of natural flow, L	= 25 m										
Time of concentration, t ₀	= 0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (25) / (0.1 ^{0.2} *343 ^{0.1}) = 3.2 min	SDM 7.5.2 (d)									
2 For Existing U-Channel in catchment area B											
	<table><tr><td></td><td>From</td><td>To</td></tr><tr><td>Ground level (mPD)</td><td>4.00</td><td>4.00</td></tr><tr><td>Invert level (mPD)</td><td>3.70</td><td>3.37</td></tr></table>		From	To	Ground level (mPD)	4.00	4.00	Invert level (mPD)	3.70	3.37	
	From	To									
Ground level (mPD)	4.00	4.00									
Invert level (mPD)	3.70	3.37									
Width of u-channel, w	= 300 mm										
Length of u-channel, L _c	= 36.2 m										
Depth of vertical part of u-channel, d	= 480 mm										
Gradient of u-channel, S _f	= (3.7-3.37)/36.2 = 0.009										
Cross-Section Area, a	= 0.5 π r ² + w d = 0.5 x 3.14 x 150 ² + 300 x 480 = 0.179 m ²										
Wetted Perimeter, p	= π r + 2 d = 3.14 x 150 + 2 x 480 = 1.431 m										
Hydraulic radius, R	= a / p = 0.125 m	SDM 8.2.1									
3 Use Manning Equation for estimating velocity of stormwater											
Take n	= 0.016 for concrete lined channels:-	SDM Table 13									
Allowable velocity, v	= R ^{1/6} x (RS _f) ^{1/2} /n = (0.125) ^{1/6} x (0.125 x 0.009) ^{1/2} / 0.016 = 1.49 m/s	SDM Table 12									
Time of flow, t _f	= 0.4 min										
4 Use "Rational Method" for calculation of design flow											
Design intensity, i	= a / (t ₀ + t _f +b) ^c = 505.5 / (2.9+0.5+3.29) ^{0.35} for return period T = 50 years = 255	SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a									
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)									
Flat Glassland(heavy soil)	0.25	0.0									
Concrete Paving	0.95	343.0									
		SUM = 325.9									
Upstream flow, Q _u	= 0 m ³ /s										
Design flow, Q _d	= 0.278i Σ C _j A _j + Q _u where A _j is in km ² = 0.278 x 255 x 325.85 / 1000000 + 0 = 0.023 m ³ /s	SDM 7.5.2 (a)									
Allowable flow, Q _a	= a x v = 0.179 x 1.49 = 0.268 m ³ /s > Q _d (O.K.)										
Reference was made to Stormwater Drainage Manual (SDM) by DSD											

1 For Catchment Area C

Area, A = 3944 m²
Average slope, H = 0.1 m per 100m
Distance on the line of natural flow, L = 66 m

$$\text{Time of concentration, } t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (66) / (0.1^{0.2} \times 3944^{0.1}) = 6.6 \text{ min}$$

2 For Existing Ditch in catchment area C

	From	To
Ground level (mPD)	4.00	3.90
Invert level (mPD)	3.37	2.68

Width of u-channel, w = 500 mm
Length of u-channel, L_c = 206.7 m
Depth of vertical part of u-channel, d = 969 mm
Gradient of u-channel, S_f = (3.37-2.681)/206.7 = 0.0033

$$\text{Cross-Section Area, } a = 0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 250^2 + 500 \times 969 = 0.583 \text{ m}^2$$

$$\text{Wetted Perimeter, } p = \pi r + 2 d = 3.14 \times 250 + 2 \times 969 = 2.723 \text{ m}$$

$$\text{Hydraulic radius, } R = a / p = 0.214 \text{ m}$$

3 Use Manning Equation for estimating velocity of stormwater

Take n = 0.0225 for earth lined channels:-
Allowable velocity, v = $R^{1/6} \times (RS_f)^{1/2} / n = (0.214)^{1/6} \times (0.214 \times 0.003)^{1/2} / 0.0225 = 0.92 \text{ m/s}$
Time of flow, t_f = 3.8 min

4 Use "Rational Method" for calculation of design flow

$$\text{Design intensity, } i = a / (t_o + t_f + b)^c = 505.5 / (2.9 + 0.5 + 3.29)^{0.355} \text{ for return period } T = 50 \text{ years} = 200$$

Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland(heavy soil)	0.25	2765.0	691.3
Concrete Paving	0.95	1179.0	1120.1
SUM =			1811.3

$$\text{Upstream flow, } Q_u = 0.071 \text{ m}^3/\text{s}$$

$$\begin{aligned} \text{Design flow, } Q_d &= 0.278i \sum C_j A_j + Q_u \quad \text{where } A_j \text{ is in km}^2 \\ &= 0.278 \times 200 \times 1811.3 / 1000000 + 0.071 \\ &= 0.172 \text{ m}^3/\text{s} \end{aligned}$$

$$\begin{aligned} \text{Allowable flow, } Q_a &= a \times v \\ &= 0.583 \times 0.92 \\ &= 0.535 \text{ m}^3/\text{s} \end{aligned}$$

$$> Q_d \text{ (O.K.)}$$

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Ref.

SDM 7.5.2 (d)

SDM 8.2.1

SDM Table 13
SDM Table 12

SDM 4.3.2
Corrigendum 1/2024
SDM Table 3a

SDM 7.5.2 (b)

SDM 7.5.2 (a)

Scale: NA

December 2024

Hydraulic Calculation

Lots 1464 (Part), 1486 (Part), 1489 (Part), 1494 (Part)
and adjoining Government Land in D. D. 107
Yuen Long, N. T.

Goldrich Planners &
Surveyors Ltd.

Page 3
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1 For Catchment Area between Existing Ditch and CP2

Area, A = 0 m²
Average slope, H = 0.1 m per 100m
Distance on the line of natural flow, L = 0 m

$$\text{Time of concentration, } t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (0) / (0.1^{0.2} \times 0^{0.1}) = 0.0 \text{ min}$$

SDM 7.5.2 (d)

2 For Existing U-Channel between Existing Ditch and CP2

	From	To
Ground level (mPD)	3.90	4.10
Invert level (mPD)	2.68	2.59

Width of u-channel, w = 500 mm
Length of u-channel, L_c = 27.7 m
Depth of vertical part of u-channel, d = 1260 mm
Gradient of u-channel, S_f = (2.68-2.59)/27.7 = 0.0033

$$\text{Cross-Section Area, } a = 0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 250^2 + 500 \times 1260 = 0.728 \text{ m}^2$$

$$\text{Wetted Perimeter, } p = \pi r + 2 d = 3.14 \times 250 + 2 \times 1260 = 3.305 \text{ m}$$

$$\text{Hydraulic radius, } R = a / p = 0.220 \text{ m}$$

SDM 8.2.1

3 Use Manning Equation for estimating velocity of stormwater

Take n = 0.0160 for concrete lined channels:-
Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (0.22)^{1/6} x (0.22 x 0.003)^{1/2} / 0.016 = 1.31 m/s
Time of flow, t_f = 0.4 min

SDM Table 13
SDM Table 12

4 Use "Rational Method" for calculation of design flow

$$\text{Design intensity, } i = a / (t_o + t_f + b)^c = 505.5 / (2.9 + 0.5 + 3.29)^{0.355} \text{ for return period } T = 50 \text{ years} = 319$$

SDM 4.3.2
Corrigendum 1/2024
SDM Table 3a

Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland(heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	0.0	0.0
SUM =			0.0

SDM 7.5.2 (b)

$$\text{Upstream flow, } Q_u = 0.172 \text{ m}^3/\text{s}$$

$$\begin{aligned} \text{Design flow, } Q_d &= 0.278i \sum C_f A_j + Q_u \quad \text{where } A_j \text{ is in km}^2 \\ &= 0.278 \times 319 \times 0 / 1000000 + 0.172 \\ &= 0.172 \text{ m}^3/\text{s} \end{aligned}$$

SDM 7.5.2 (a)

$$\begin{aligned} \text{Allowable flow, } Q_a &= a \times v \\ &= 0.728 \times 1.31 \\ &= 0.951 \text{ m}^3/\text{s} \end{aligned}$$

$$> Q_d \text{ (O.K.)}$$

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Scale: NA

December 2024

Hydraulic Calculation

Lots 1464 (Part), 1486 (Part), 1489 (Part), 1494 (Part)
and adjoining Government Land in D. D. 107
Yuen Long, N. T.

Goldrich Planners &
Surveyors Ltd.

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1 For Catchment Area between CP2 and CP3

Area, A = 0 m²
Average slope, H = 0.1 m per 100m
Distance on the line of natural flow, L = 0 m

Time of concentration, t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (0) / (0.1^{0.2}0^{0.1})
= 0.0 min

Ref.

SDM 7.5.2 (d)

2 For Underground Pipe between CP2 and CP3

Size(Diameter) w = 500 mm
Length of Pipe = 3.6 m
Design the pipe to 9/10 full bore capacity, then
Area of ventilated portion = 0.1 of pipe area
 $\frac{1}{2} r^2 \theta - \frac{1}{2} r^2 \sin(\theta) = 0.1 \pi r^2$
 $\theta - \sin(\theta) = 0.2 \pi$
 $\theta = 1.63 \text{ rad} = 93.4^\circ$ (By trial and error)

Area A = 0.9 πr^2
= 0.9 x 3.14 x 500²
= 0.707 m²

Wetted Perimeter P = 2 $\pi r - r \theta$ = 2327 mm
Hydraulic radius R = $\frac{A}{P}$
= 303.7 mm

SDM 8.2.1

3 Use Manning Equation for estimating velocity of stormwater

Fall S = 1: 300
Take n = 0.016 for concrete lined channels:-
Allowable velocity, v = $R^{1/6} \times (RS_f)^{1/2} / n$ = (303.7)^{1/6} * (303.7/300)^{1/2} / 0.016
= 1.35 m/s
Time of flow, t_f = 0.04 min

SDM Table 13
SDM Table 12

4 Use "Rational Method" for calculation of design flow

Design intensity, i = a / (t_o + t_f + b)^c
= 505.5 / (2.9+0.04+3.29)^{0.355} for return period T = 50 years
= 330

SDM 4.3.2
Corrigendum 1/2024
SDM Table 3a

Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland(heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	0.0	0.0
Macadam Roadways	0.425	0.0	0.0
Wooded Areas	0.105	0.0	0.0
SUM =			0.0

SDM 7.5.2 (b)

Upstream flow, Q_u = 0.172 m³/s

Design flow, Q_d = 0.278i $\Sigma C_i A_i$ + Q_u where A_i is in km²
= 0.278 x 330 x 0 / 1000000 + 0.172
= 0.172 m³/s

SDM 7.5.2 (a)

Allowable flow, Q_a = 0.9 x a x v (10% reduction in flow area due to deposition of sediment)
= 0.9 x 0.3974 x 1.35
= 0.856 m³/s

> Q_d (O.K.)

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Scale: NA

Hydraulic Calculation

Goldrich Planners &
Surveyors Ltd.

December 2024

Lots 1464 (Part), 1486 (Part), 1489 (Part), 1494 (Part)
and adjoining Government Land in D. D. 107
Yuen Long, N. T.

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1 For Catchment Area D

Area, A = 2458 m²
 Average slope, H = 0.1 m per 100m
 Distance on the line of natural flow, L = 33 m

$$\text{Time of concentration, } t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (33) / (0.1^{0.2} \times 2458^{0.1}) = 0.0 \text{ min}$$

SDM 7.5.2 (d)

2 For U-channel between Existing CP3 and CP5

	From	To
Ground level (mPD)	4.10	3.30
Invert level (mPD)	2.58	2.34

Width of u-channel, w = 500 mm
 Length of u-channel, L_c = 71.1 m
 Depth of vertical part of u-channel, d = 710 mm
 Gradient of u-channel, S_f = (2.58-2.34)/71.1 = 0.0034

$$\text{Cross-Section Area, } a = 0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 250^2 + 500 \times 710 = 0.453 \text{ m}^2$$

$$\text{Wetted Perimeter, } p = \pi r + 2 d = 3.14 \times 250 + 2 \times 710 = 2.205 \text{ m}$$

$$\text{Hydraulic radius, } R = a / p = 0.205 \text{ m}$$

SDM 8.2.1

3 Use Manning Equation for estimating velocity of stormwater

Take n = 0.0160 for concrete lined channels:-
 Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (0.205)^{1/6} x (0.205 x 0.003)^{1/2} / 0.016 = 1.26 m/s
 Time of flow, t_f = 0.9 min

SDM Table 13
 SDM Table 12

4 Use "Rational Method" for calculation of design flow

$$\text{Design intensity, } i = a / (t_o + t_f + b)^c = 505.5 / (2.9 + 0.5 + 3.29)^{0.355} \text{ for return period } T = 50 \text{ years} = 303$$

SDM 4.3.2
 Corrigendum 1/2024
 SDM Table 3a

Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland (heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	2458.0	2335.1
SUM =			2335.1

SDM 7.5.2 (b)

$$\text{Upstream flow, } Q_u = 0.172 \text{ m}^3/\text{s}$$

$$\begin{aligned} \text{Design flow, } Q_d &= 0.278i \sum C_i A_i + Q_u \quad \text{where } A_i \text{ is in km}^2 \\ &= 0.278 \times 303 \times 2335.1 / 1000000 + 0.172 \\ &= 0.369 \text{ m}^3/\text{s} \end{aligned}$$

SDM 7.5.2 (a)

$$\begin{aligned} \text{Allowable flow, } Q_a &= a \times v \\ &= 0.453 \times 1.26 \\ &= 0.573 \text{ m}^3/\text{s} \end{aligned}$$

$$> Q_d \text{ (O.K.)}$$

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Scale: NA

Hydraulic Calculation

Goldrich Planners &
 Surveyors Ltd.

December 2024

Lots 1464 (Part), 1486 (Part), 1489 (Part), 1494 (Part)
 and adjoining Government Land in D. D. 107
 Yuen Long, N. T.

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1 For Catchment Area E

Area, A = 1081 m²
 Average slope, H = 0.1 m per 100m
 Distance on the line of natural flow, L = 33 m

$$\text{Time of concentration, } t_o = 0.14465L / (H^{0.2}A^{0.1}) = 0.14465 (33) / (0.1^{0.2} \times 1081^{0.1}) = 3.8 \text{ min}$$

SDM 7.5.2 (d)

2 For Existing Local Ditch in catchment area E

	From	To
Ground level (mPD)	3.30	4.30
Invert level (mPD)	2.34	2.16

Width of u-channel, w = 750 mm
 Length of u-channel, L_c = 53 m
 Depth of vertical part of u-channel, d = 1765 mm
 Gradient of u-channel, S_f = (2.34-2.16)/53 = 0.0034

$$\text{Cross-Section Area, } a = 0.5 \pi r^2 + w d = 0.5 \times 3.14 \times 375^2 + 750 \times 1765 = 1.545 \text{ m}^2$$

$$\text{Wetted Perimeter, } p = \pi r + 2 d = 3.14 \times 375 + 2 \times 1765 = 4.708 \text{ m}$$

$$\text{Hydraulic radius, } R = a / p = 0.328 \text{ m}$$

SDM 8.2.1

3 Use Manning Equation for estimating velocity of stormwater

Take n = 0.016 for concrete lined channels:-
 Allowable velocity, v = R^{1/6} x (RS_f)^{1/2} / n = (0.328)^{1/6} x (0.328 x 0.003)^{1/2} / 0.016 = 1.73 m/s
 Time of flow, t_f = 0.5 min

SDM Table 13
 SDM Table 12

4 Use "Rational Method" for calculation of design flow

$$\text{Design intensity, } i = a / (t_o + t_f + b)^c = 505.5 / (2.9 + 0.5 + 3.29)^{0.355} \text{ for return period } T = 50 \text{ years} = 246$$

SDM 4.3.2
 Corrigendum 1/2024
 SDM Table 3a

Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A
Flat Glassland(heavy soil)	0.25	0.0	0.0
Concrete Paving	0.95	1081.0	1027.0
SUM =			1027.0

SDM 7.5.2 (b)

$$\text{Upstream flow, } Q_u = 0.369 \text{ m}^3/\text{s}$$

$$\begin{aligned} \text{Design flow, } Q_d &= 0.278i \sum C_f A_j + Q_u \quad \text{where } A_j \text{ is in km}^2 \\ &= 0.278 \times 246 \times 1026.95 / 1000000 + 0.369 \\ &= 0.439 \text{ m}^3/\text{s} \end{aligned}$$

SDM 7.5.2 (a)

$$\begin{aligned} \text{Allowable flow, } Q_a &= a \times v \\ &= 1.545 \times 1.73 \\ &= 2.676 \text{ m}^3/\text{s} \end{aligned}$$

$$> Q_d \text{ (O.K.)}$$

Reference was made to Stormwater Drainage Manual (SDM) by DSD

Scale: NA

Hydraulic Calculation

Goldrich Planners &
 Surveyors Ltd.

December 2024

Lots 1464 (Part), 1486 (Part), 1489 (Part), 1494 (Part)
 and adjoining Government Land in D. D. 107
 Yuen Long, N. T.

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Viewpoint 1



Viewpoint 2



Viewpoint 3



Viewpoint 4



Viewpoint 5



Viewpoint 6



Viewpoint 7



Viewpoint 8



Viewpoint 9



Existing 500 UC

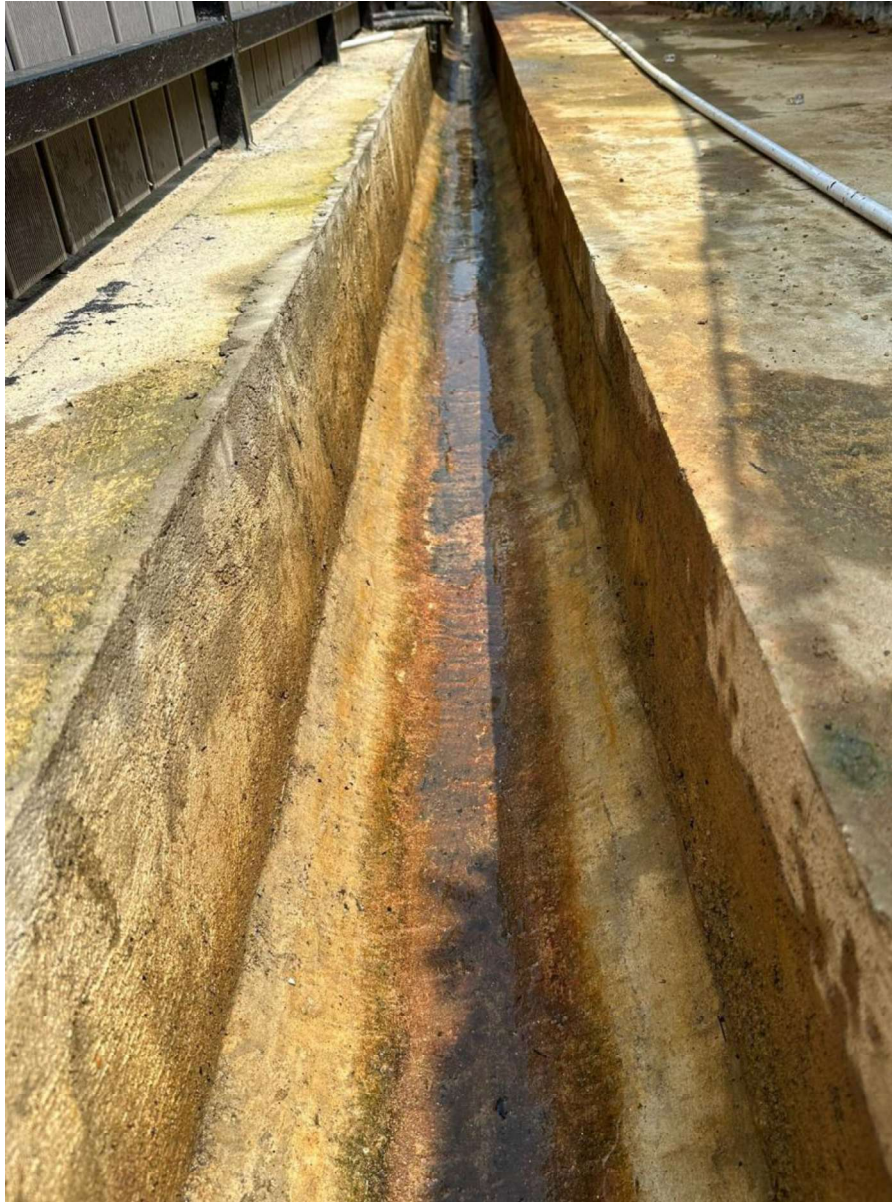
Viewpoint 10



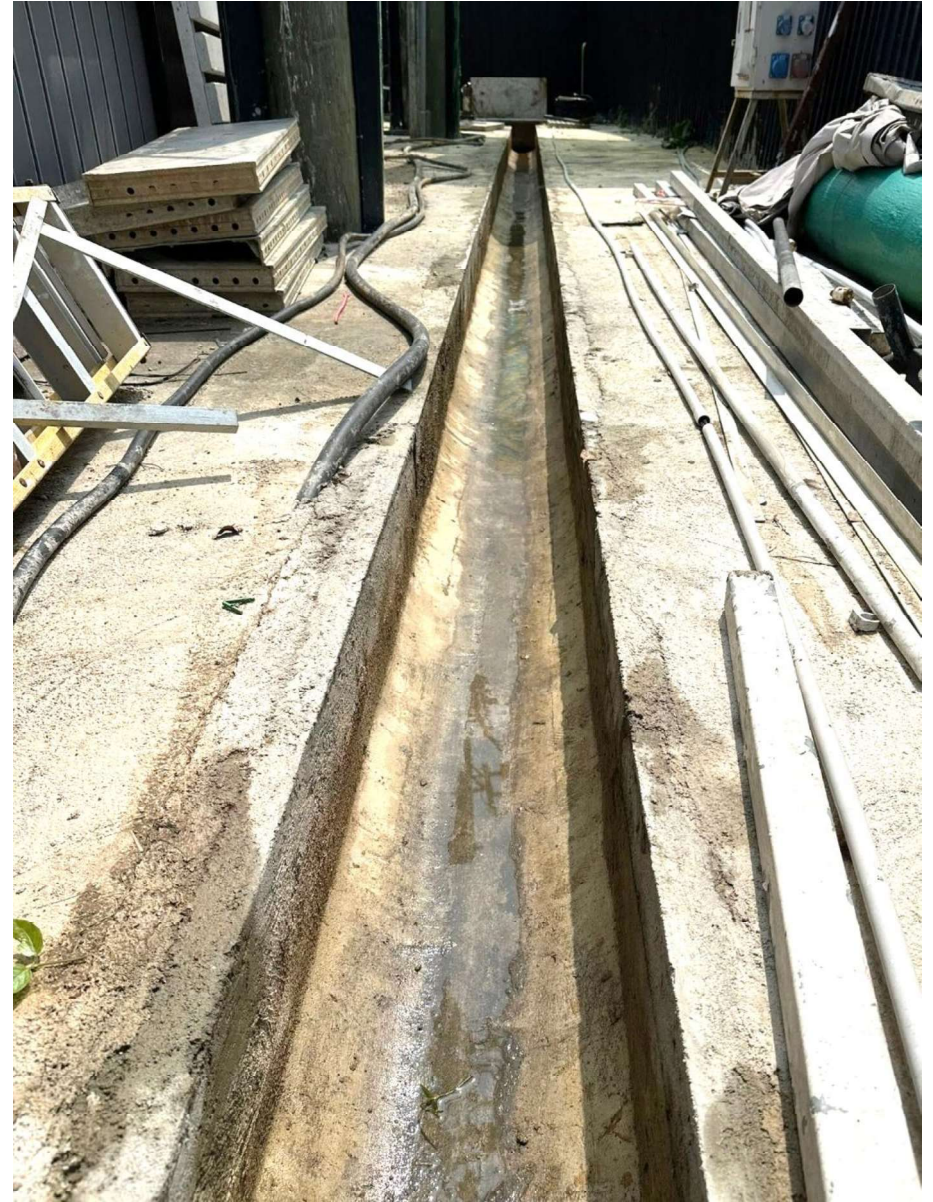
Existing 750
Local Ditch

Existing CP5

Viewpoint 11



Viewpoint 12



Viewpoint 13



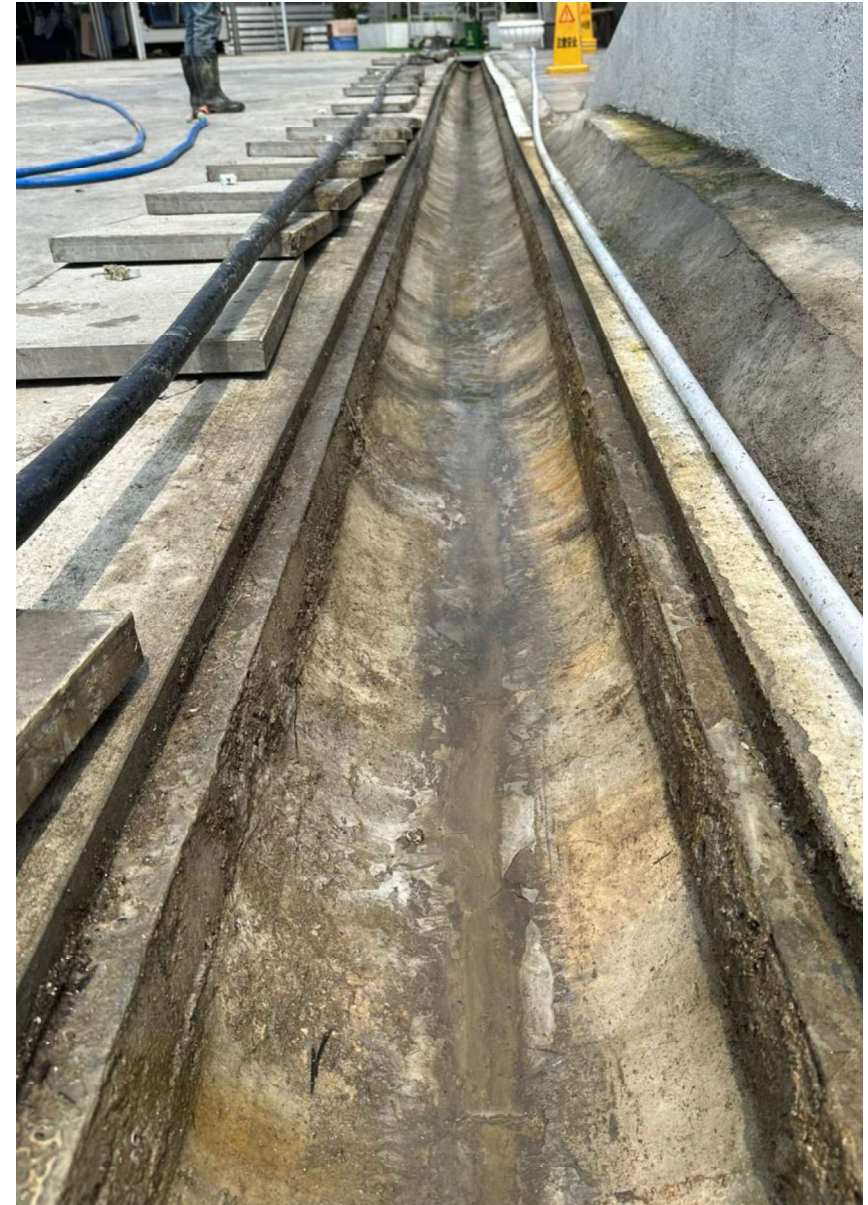
Viewpoint 14



Viewpoint 15

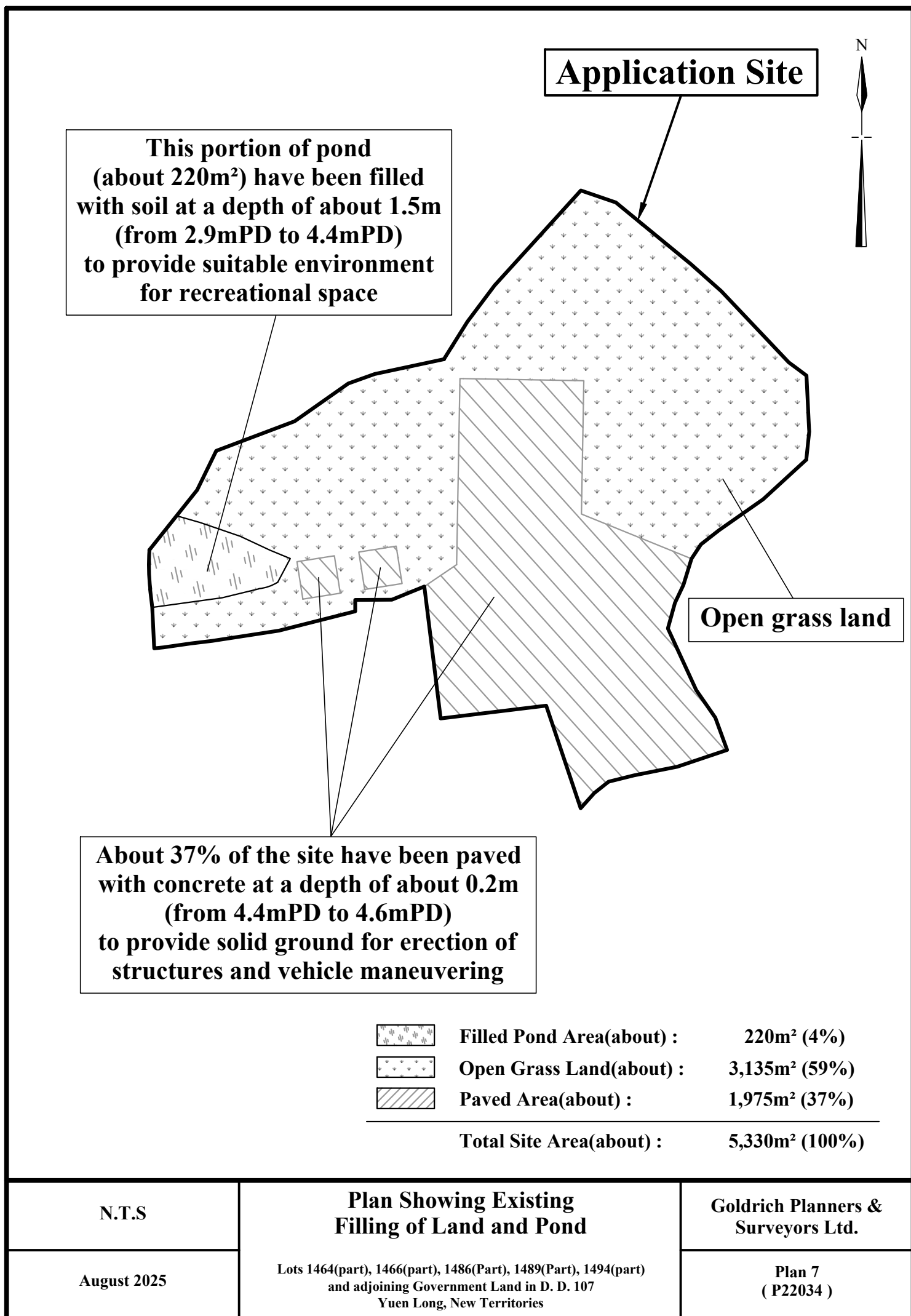


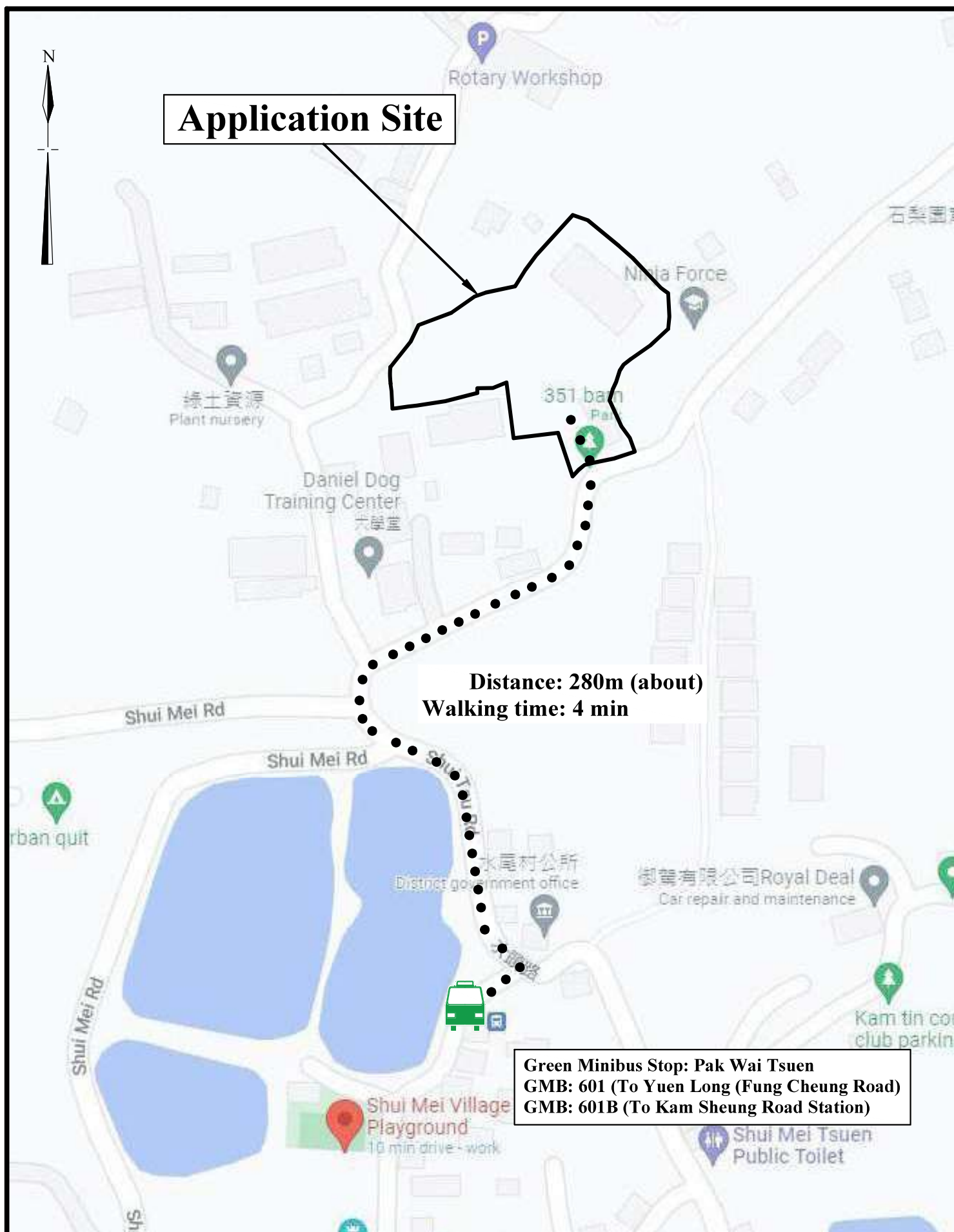
Viewpoint 16



Viewpoint 17







N.T.S	Plan Showing The Nearest Public Transport Services Lots 1464(part), 1466(part), 1486(Part), 1489(Part), 1494(part) and adjoining Government Land in D. D. 107 Yuen Long, New Territories	Goldrich Planners & Surveyors Ltd.
August 2025		Plan 8 (P 22034)