

GoldRich PLANNERS & SURVEYORS LTD.

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Your Ref.: A/NE-KLH/658

Our Ref.: P25046/TL25343

14 October 2025

The Secretary

Town Planning Board

15/F., North Point Government Offices

333 Java Road, North Point, Hong Kong

By Post and E-mail

tpbpd@pland.gov.hk

Dear Sir,

Submission of Further Information (FI)

**Proposed Temporary Public Vehicle Park (Excluding Container Vehicle) and
Associated Filling of Land for a Period of 3 Years in "Village Type Development"
and "Agriculture" Zones, Various Lots in D.D. 9, Yuen Leng, Tai Po, New Territories**
(Application No.: A/NE-KLH/658)

We write to submit FI in response to departmental comment(s) for the captioned application.

Yours faithfully,

For and on behalf of

Goldrich Planners & Surveyors Ltd.



Francis LAU

Encl.

c.c.

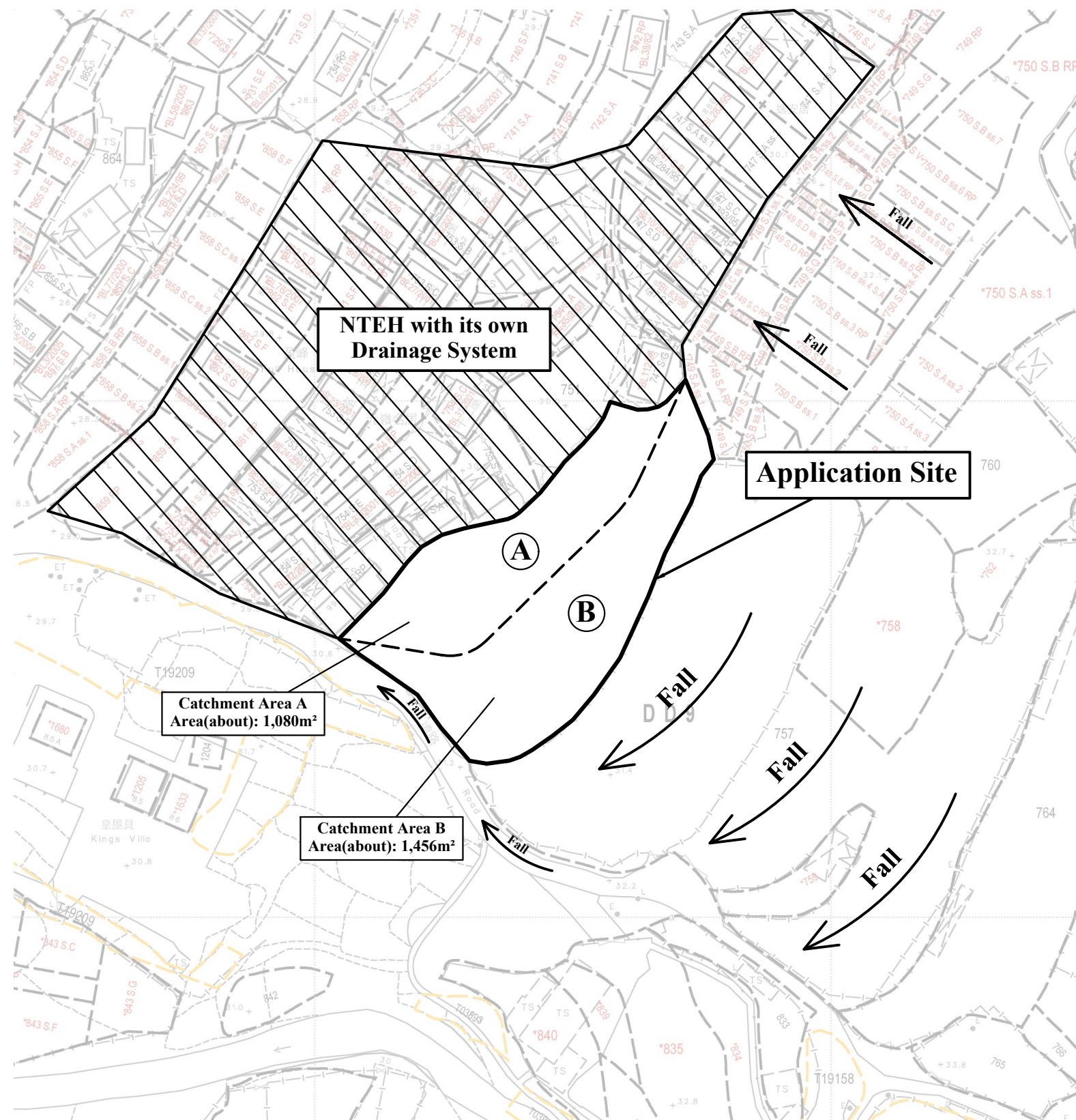
DPO/STN, PlanD

Further Information for Planning Application No. A/NE-KLH/658**Response-to-Comments****Comments from the Drainage Services Department**

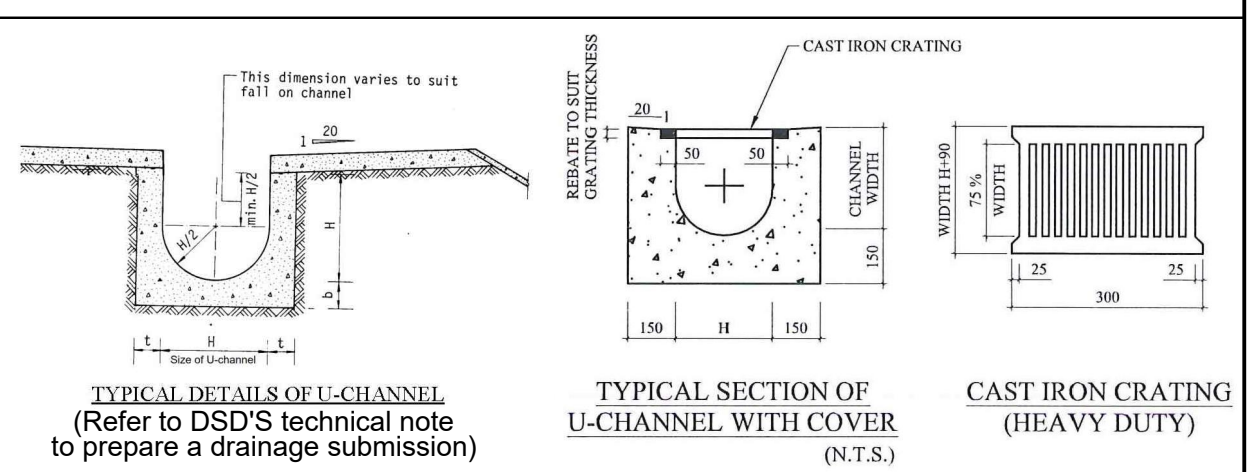
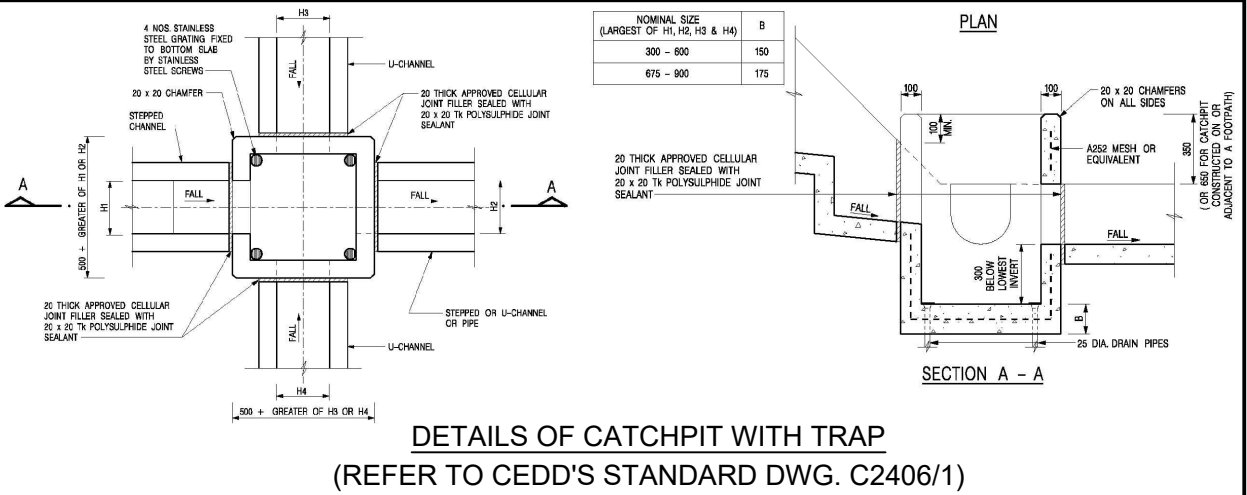
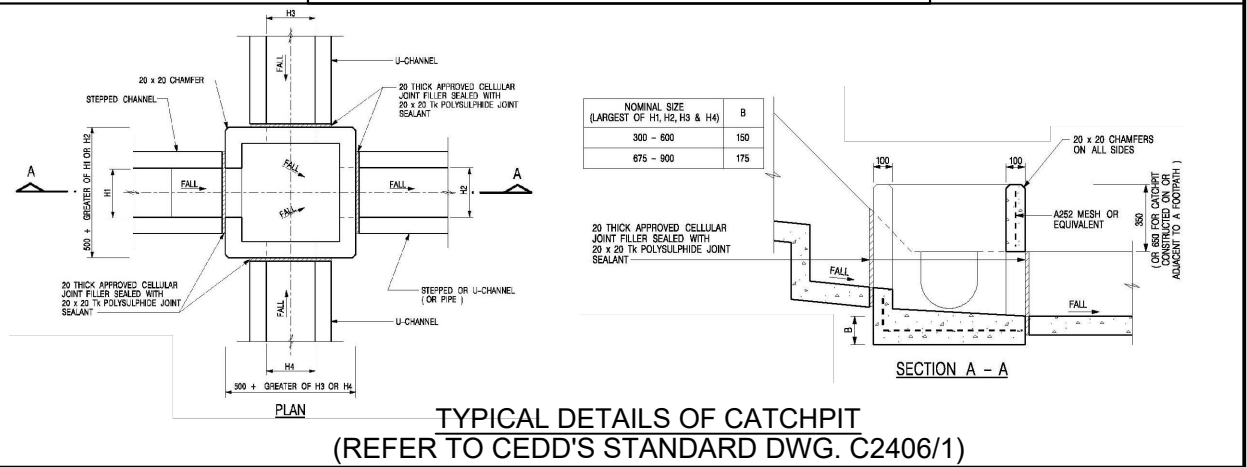
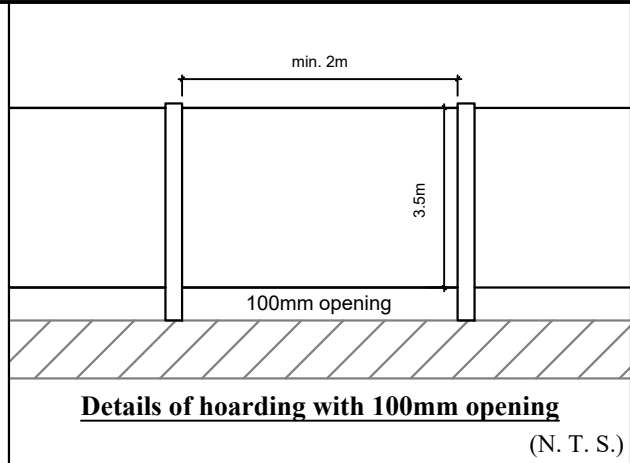
Contact person: Ms. Karen HO (Tel.: 2300 1364)

I.	Comments	Responses
1.	I have reservation on the subject application as there is landfilling works to be carried out at the application site which may cause adverse drainage impact to the surrounding lands and premises. As such, the applicant is required to provide further information to demonstrate that the development will not cause adverse drainage impact to the adjacent areas.	Please see the drainage proposal (Plans 5.1 & 5.2) and hydraulic calculations for details.
2.	There is no existing DSD maintained public drain available for connection in the area. The applicant should have its own stormwater collection and discharge system to cater for the runoff generated within the Site and overland flow from surrounding of the Site, e.g. surface channel of sufficient size along the perimeter of the Site; sufficient openings should be provided at the bottom of the boundary wall/fence to allow surface runoff to pass through the Site of any boundary wall/fence are to be erected. Any existing flow path affected should be re-provided. The applicant should neither obstruct overland flow nor adversely affect the existing natural streams, village drains, ditches and the adjacent areas. The applicant is required to maintain the drainage systems properly and rectify the systems if they are found to be inadequate or ineffective during operation. The applicant shall also be liable for and shall indemnify claims and demands arising out of damage or nuisance caused by failure of the systems.	Noted.
3.	The applicant(s) shall resolve any conflict/disagreement with relevant lot owner(s) and seek LandsD's permission for laying new drains/channels and/or modifying/upgrading existing ones in other private lots or on Government land (where required) outside the application site(s).	Noted.

- END -



AREA OF CATCHMENT
(N.T.S)



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

CAST IRON CRATING
(HEAVY DUTY)

N.T.S

October 2025

Drainage Proposal

Lots 756 S.A - 756 S.P and 756 RP in D.D. 9

Goldrich Planners &
Surveyors Ltd.

Plan 5.2
(P 25046)

1 For Catchment Area A			Ref.	
Area, A	=	1080 m ²		
Average slope, H	=	0.1 m per 100m		
Distance on the line of natural flow, L	=	20 m		
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (20) / (0.1 ^{0.2} *1080 ^{0.1})	SDM 7.5.2 (d)	
	=	2.3 min		
2 For Proposed UC in Catchment Area A				
	From	To		
Ground level (mPD)	31.50	31.30		
Invert level (mPD)	30.99	30.59		
Width of u-channel, w	=	350 mm		
Length of u-channel, L _c	=	80 m		
Depth of vertical part of u-channel, d	=	535 mm		
Gradient of u-channel, S _f	=	(30.99-30.59)/80 = 0.005		
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 175 ² + 350 x 535		
	=	0.235 m ²		
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 175 + 2 x 535		
	=	1.620 m		
Hydraulic radius, R	=	a / p	SDM 8.2.1	
	=	0.145 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 = (0.145) ^{1/6} x (0.145 x 0.005) ^{1/2} / 0.016	SDM Table 12	
	=	1.22 m/s		
Time of flow, t _f	=	1.1 min		
4 Use "Rational Method" for calculation of design flow				
Design intensity, i	=	a / (t _o + t _f +b) ^c	SDM 4.3.2	
	=	505.5 / (2.3+1.1+3.29) ^{0.355} for return period T = 50 years	Corrigendum 1/2024	
	=	258	SDM Table 3a	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	C x A	SDM 7.5.2 (b)
Flat Grassland(heavy soil)	0.25	0.0	0.0	
Concrete Paving	0.95	1080.0	1026.0	
		SUM =	1026.0	
Upstream flow, Q _u	=	0 m ³ /s		
Design flow, Q _d	=	0.278i Σ C _f A _j + Q _u where A _j is in km ²		SDM 7.5.2 (a)
	=	0.278 x 258 x 1026 / 1000000 + 0		
	=	0.074 m ³ /s		
Allowable flow, Q _a	=	a x v		
	=	0.235 x 1.22		
	=	0.287 m ³ /s		
	>	Q _d (O.K.)		
Reference was made to Stormwater Drainage Manual (SDM) by DSD				

Scale: NA	Hydraulic Calculation	Goldrich Planners & Surveyors Ltd.
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	Lots 756 S.A - 756 S.P and 756 RP in D.D. 9 Tai Po, New Territories	

1 For Catchment Area B			Ref.
Area, A	=	1456 m ²	
Average slope, H	=	0.1 m per 100m	
Distance on the line of natural flow, L	=	22 m	
Time of concentration, t _o	=	0.14465L / (H ^{0.2} A ^{0.1}) = 0.14465 (22) / (0.1 ^{0.2} *1456 ^{0.1}) = 2.4 min	
SDM 7.5.2 (d)			
2 For Proposed UC in Catchment Area B			
	From	To	
Ground level (mPD)	31.50	31.30	
Invert level (mPD)	31.15	30.59	
Width of u-channel, w	=	350 mm	
Length of u-channel, L _c	=	111.6 m	
Depth of vertical part of u-channel, d	=	535 mm	
Gradient of u-channel, S _f	=	(31.15-30.59)/111.6 = 0.005	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 175 ² + 350 x 535 = 0.235 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 175 + 2 x 535 = 1.620 m	
Hydraulic radius, R	=	a / p = 0.145 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 = (0.145) ^{1/6} x (0.145 x 0.005) ^{1/2} / 0.016 = 1.22 m/s	
Time of flow, t _f	=	1.5 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 / (2.4+1.5+3.29) ^{0.355} for return period T = 50 years = 250	
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	1456.0	
		SUM = 1383.2	
SDM 7.5.2 (b)			
Upstream flow, Q _u	=	0 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _f A _j + Q _u where A _j is in km ² = 0.278 x 250 x 1383.2 / 1000000 + 0 = 0.096 m ³ /s	
Allowable flow, Q _a	=	a x v = 0.235 x 1.22 = 0.288 m ³ /s > Q _d (O.K.)	
SDM 7.5.2 (a)			
Reference was made to Stormwater Drainage Manual (SDM) by DSD			

Scale: NA	Hydraulic Calculation	Goldrich Planners & Surveyors Ltd.
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Lots 756 S.A - 756 S.P and 756 RP in D.D. 9
Tai Po, New Territories

1 For Connection between CP2 and Existing Public 800 UC			Ref.
Area, A	=	0 m ²	SDM 7.5.2 (d)
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	
2 For Proposed UC in between CP2 and Existing Public 800 UC			SDM 8.2.1
	From	To	
Ground level (mPD)	31.30	31.10	
Invert level (mPD)	30.59	30.57	
Width of u-channel, w	=	350 mm	
Length of u-channel, L _c	=	2 m	
Depth of vertical part of u-channel, d	=	355 mm	
Gradient of u-channel, S _f	=	(30.59-30.57)/2 = 0.010	
Cross-Section Area, a	=	0.5 π r ² + w d = 0.5 x 3.14 x 175 ² + 350 x 355 = 0.172 m ²	
Wetted Perimeter, p	=	π r + 2 d = 3.14 x 175 + 2 x 355 = 1.260 m	
Hydraulic radius, R	=	a / p = 0.137 m	
3 Use Manning Equation for estimating velocity of stormwater			SDM Table 13 SDM Table 12
Take n	=	0.016 for concrete lined channels:-	
Allowable velocity, v	=	R ^{1/6} x (RS _f) ^{1/2} /n = (0.137) ^{1/6} x (0.137 x 0.01) ^{1/2} / 0.016 = 1.66 m/s	
Time of flow, t _f	=	0.0 min	
4 Use "Rational Method" for calculation of design flow			SDM 4.3.2 Corrigendum 1/2024 SDM Table 3a SDM 7.5.2 (b) SDM 7.5.2 (a)
Design intensity, i	=	a / (t _o + t _f + b) ^c = 505.5 / (0+0+3.29) ^{0.355} = 331 for return period T = 50 years	
Type of surface	Runoff Coefficient C	Catchment Area A (m ²)	
Flat Glassland(heavy soil)	0.25	0.0	
Concrete Paving	0.95	0.0	
		SUM = 0.0	
Upstream flow, Q _u	=	0.170 m ³ /s	
Design flow, Q _d	=	0.278i Σ C _f A _f + Q _u where A _f is in km ² = 0.278 x 331 x 0 / 1000000 + 0.17 = 0.170 m ³ /s	
Allowable flow, Q _a	=	a x v = 0.172 x 1.66 = 0.286 m ³ /s > Q _d (O.K.)	
Reference was made to Stormwater Drainage Manual (SDM) by DSD			
Scale: NA	Hydraulic Calculation		Goldrich Planners & Surveyors Ltd.
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