

Our Ref. : DD112 Lot 354
Your Ref. : TPB/A/YL-SK/433

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

By E-mail

25 February 2026

Dear Sir,

2nd Further Information

Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in “Village Type Development” Zone, Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

(S.16 Planning Application No. A/YL-SK/433)

We write to submit further information in response to departmental comments on the captioned application.

Should you require more information regarding the application, please contact our Mr. Danny NG [REDACTED] or the undersigned at your convenience. Thank you for your kind attention.

Yours faithfully,

For and on behalf of
R-riches Planning Limited



Christian CHIM
Town Planner

cc DPO/FSYLE, PlanD

(Attn.: Mr. Jason WONG
(Attn.: Ms. Athena LAI
(Attn.: Mr. Travis KWOK

email: [REDACTED])
email: [REDACTED])
email: [REDACTED])



Response-to-Comment (RtC)

Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in “Village Type Development” Zone, Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

(S.16 Application No. A/YL-SK/433)

(i) An RtC table:

| Departmental Comments | | Applicant's Responses |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Comments of the Chief Engineer/Mainland North, Drainage Services Department (CE/MN, DSD) | | |
| (a) | Please make reference to the latest Technical Note No. 1 issued by DSD for more details in preparing the drainage proposal. Please upgrade all drainage facilities size accordingly. It is noted that the gradient of the proposed peripheral surface channels and pipes are quite flat (1:400), please review. | Noted. The size of drainage facilities has been updated as per your comments. Please refer to the enclosed drainage proposal. The gradient is designed so as the velocity is within a suggested range (0.75 m/s to 3 m/s). In addition, with increased size of drain, the velocity will increase to about 1.4 m/s. Besides, noting that the application site is in an elongated shape, a flatter gradient would prevent a deep drainage system and match with the connection level to the existing nullah. |
| (b) | Catchpit should be provided at the turning point of the proposed u-channel. | Noted. Please refer to the updated Figure 3 in the enclosed drainage proposal. |
| (c) | Please confirm if any walls or hoarding are/to be erected or laid along the site boundary. If affirmative, adequate opening should be provided to intercept the existing overland flow passing through the site and please provide its details for comments. | Noted. 100mm opening from ground level will be provided along wall/hoarding or equivalent where it is erected. |
| (d) | Please provide the connection details to the existing 12m width channel for review. | Noted. Please refer to the updated Figure 3 in the enclosed drainage proposal. |
| (e) | The development should neither obstruct overland flow and nor adversely affect existing natural streams, village drains, ditches and the adjacent areas, etc. | Noted. |
| (f) | The applicant should resolve any conflict/disagreement with relevant lot owner(s) and seek permission from DLO/YL for laying new | Noted. |

S.16 Planning Application No. A/YL-SK/433

| | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| | drains/channels and/or modifying/upgrading existing ones in other private lots or on Government Land, where required, outside the application site(s). | |
| (g) | The applicant should submit form HBP1 to this Division for application of technical audit for any proposed connection to DSD's drainage facilities. | Noted. |

Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in “Village Type Development” Zone, Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

Drainage Proposal

Feb 2026



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1 Introduction

1.1 Background

- 1.1.1 The applicant seeks planning permission from the Town Planning Board (the Board) to use Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories (the Site) for ‘Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 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 located to the south of Shek Kong Airfield. It has an area of approx. 3,763 m². The site location is shown in **Figure 1**.
- 1.2.2 The existing site is mostly unpaved. Existing levels are various from approximately +18.7 to +19.2 mPD. The site would be paved not more than 200 mm for site formation of the proposed structures, and the provision of parking, loading/unloading (L/UL) and circulation space.
- 1.2.3 There is an approx. 12m width rectangular nullah by the north of the site. It would eventually discharge to Kam Tin River. **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 3,763 m². The catchment plan is shown in **Figure 4**.

| Proposed Development Area (Approx.) | |
|------------------------------------------------|-------|
| Total Site Area (m ²) | 3,763 |
| Paved Area after Development (m ²) | 3,763 |

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.

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 5 years. 11.1% rainfall increase due to climate change is considered as per table 28 of corrigendum no.1/2022.

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

| | | | |
|-------|-------|---|------------------------------------|
| where | Q_p | = | peak runoff in m^3/s |
| | C | = | runoff coefficient (dimensionless) |
| | i | = | rainfall intensity in mm/hr |
| | A | = | catchment area in km^2 |

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

1. Paved Area: C = 0.95
2. Unpaved Area: C = 0.35

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

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

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:

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

where,

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

S_f = hydraulic gradient

k_r = roughness value (m)

v = kinematics viscosity of fluid

D = pipe diameter (m)

R = hydraulic radius (m)

4 Proposed Drainage System

4.1. Proposed Channels

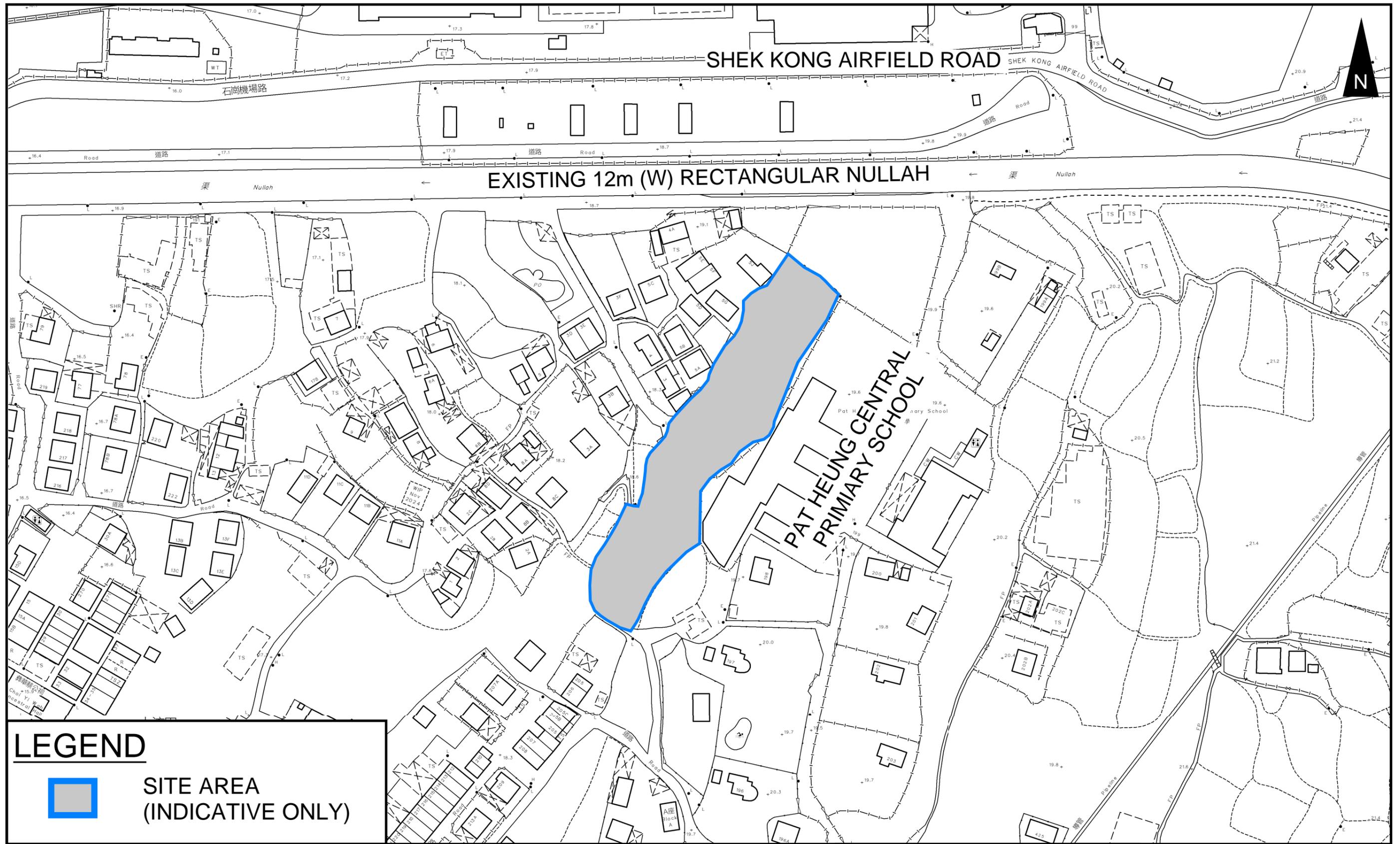
- 4.1.1 Proposed channels are designed for collection of runoff for application site. It is proposed to discharge to existing approx. 12m width rectangular nullah at the north. According to the checking of existing drains in **Appendix A**, they have enough capacity to carry the flow proposed development.
- 4.1.2 The design calculations of proposed drains are shown in **Appendix A**. Checking of utilization of existing approx. 12m width trapezoidal channel is also indicated in **Appendix A**. It is shown that the utilization is only about 0.07%.
- 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**.
- 4.1.5 Reference Drawings are shown in **Appendix C** for reference.

5 Conclusion

- 5.1.1 Drainage review has been conducted for the Proposed Development. The surface runoff will be collected by the proposed drains and discharged to existing 12m width nullah.
- 5.1.2 With implementation of the above drainage system, no unacceptable drainage impact is anticipated.

- End of Text -

FIGURES



LEGEND



**SITE AREA
(INDICATIVE ONLY)**

PROJECT:

Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in "Village Type Development" Zone

TITLE

SITE LOCATION PLAN

FIGURE NUMBER

FIGURE 1

LOCATION:

Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

| VER | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |



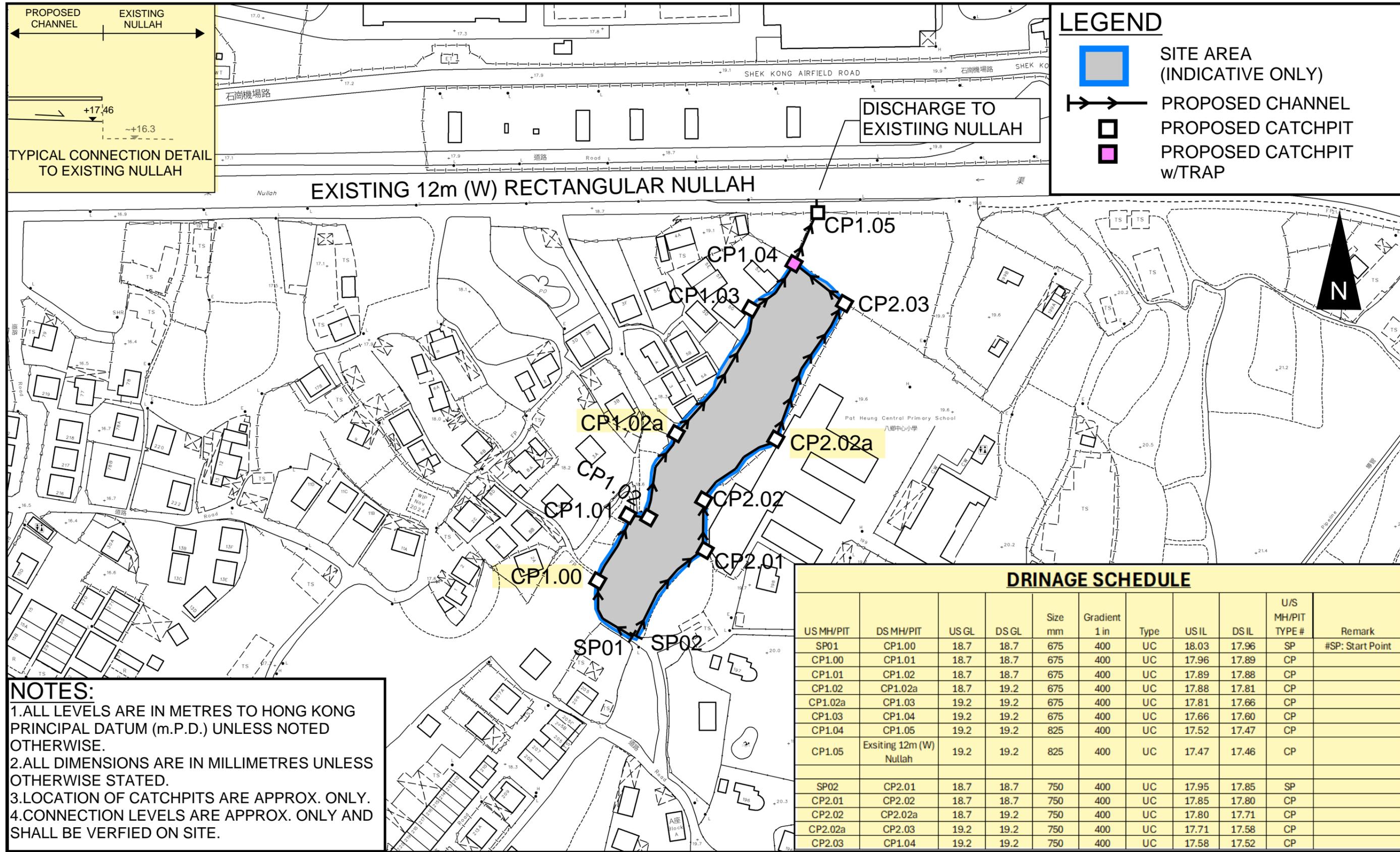
PROJECT:
 Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in "Village Type Development" Zone

TITLE
 EXISTING DRAINAGE PLAN

FIGURE NUMBER
 FIGURE 2

LOCATION:
 Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

| | | |
|-----|-------------|------|
| | | |
| VER | DESCRIPTION | DATE |



NOTES:

1. ALL LEVELS ARE IN METRES TO HONG KONG PRINCIPAL DATUM (m.P.D.) UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
3. LOCATION OF CATCHPITS ARE APPROX. ONLY.
4. CONNECTION LEVELS ARE APPROX. ONLY AND SHALL BE VERIFIED ON SITE.

PROJECT:
Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in "Village Type Development" Zone

TITLE
PROPOSED DRAINAGE SYSTEM

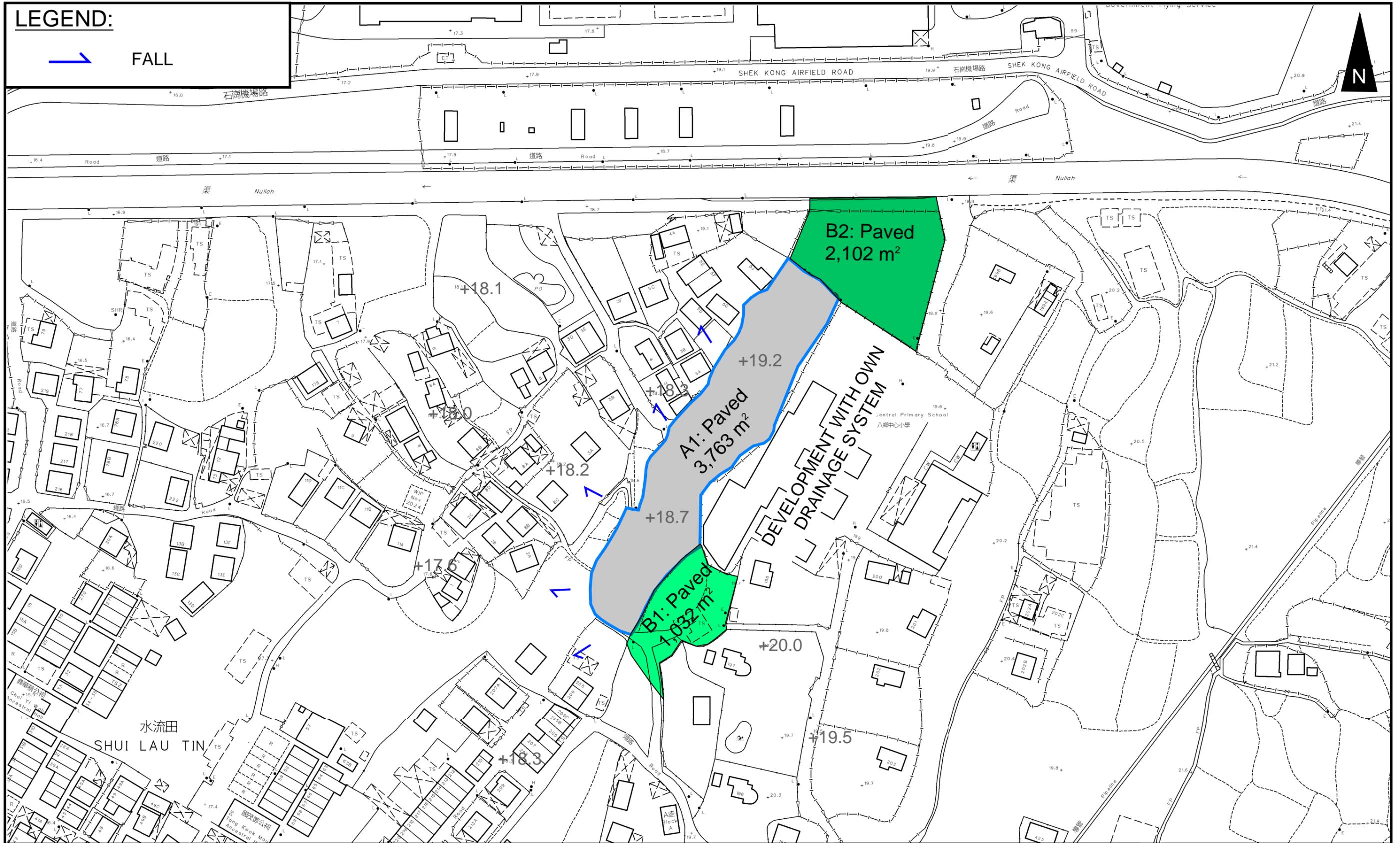
FIGURE NUMBER
FIGURE 3

LOCATION:
Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

| VER | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |

LEGEND:

 FALL



PROJECT:

Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in "Village Type Development" Zone

TITLE

CATCHMENT PLAN

FIGURE NUMBER

FIGURE 4

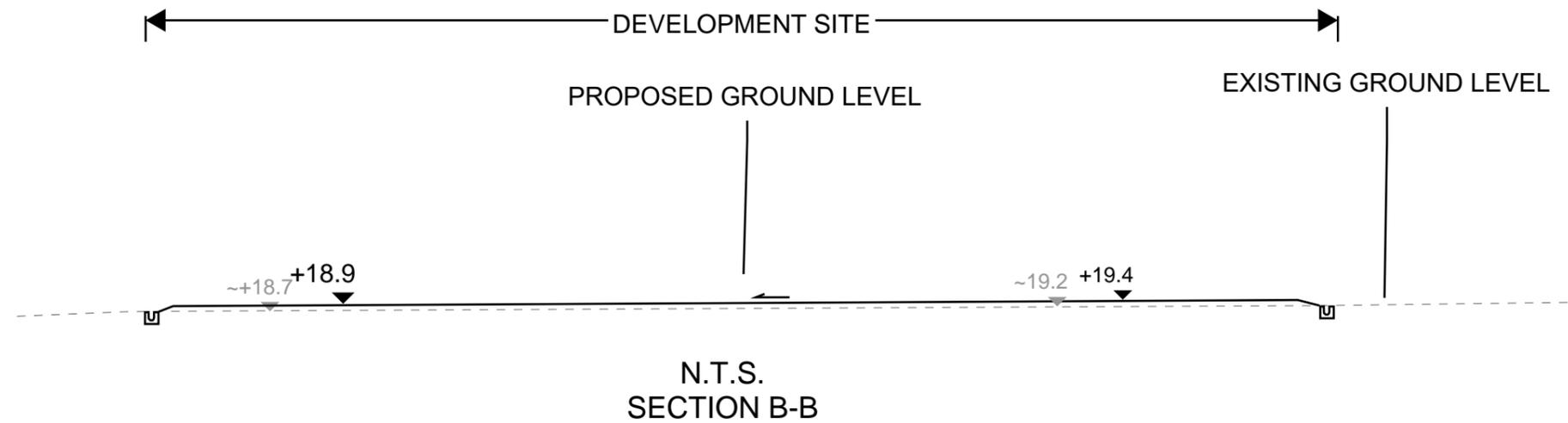
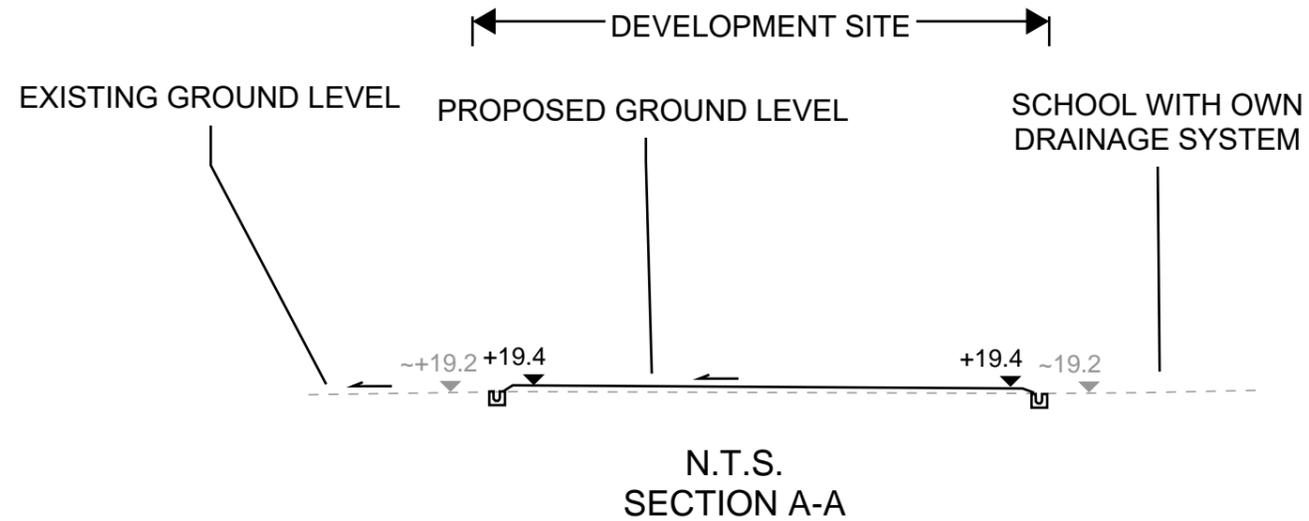
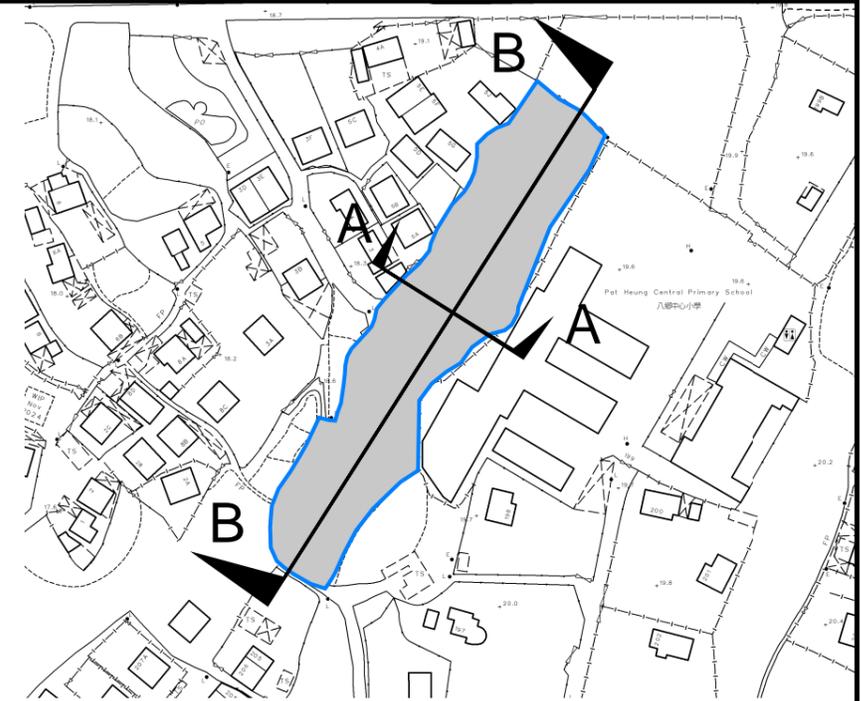
LOCATION:

Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

| VER | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |

LEGEND

 SITE AREA (INDICATIVE ONLY)



PROJECT:
 Proposed Temporary Shop and Services and Public Vehicle Park (Excluding Container Vehicle) with Ancillary Facilities and Associated Filling of Land for a Period of 5 Years in "Village Type Development" Zone

TITLE
SECTIONS

FIGURE NUMBER
FIGURE 5

LOCATION:
 Lot 354 in D.D. 112, Shui Lau Tin, Shek Kong, Yuen Long, New Territories

| VER | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |

APPENDIX

Appendix A: Design Calculation

Zone

| |
|-----|
| HKO |
|-----|

| | | | |
|---------------|------|----|-------|
| Return Period | 1 in | 50 | years |
|---------------|------|----|-------|

| | |
|-----------|----------|
| n | 0.014 |
| Ks | 0.15 |
| Viscosity | 0.000001 |

| | | |
|----------------|-------|-------|
| Storm Constant | HKO a | 505.5 |
| | HKO b | 3.29 |
| | HKO c | 0.355 |

Catchment Area Table (Area in m²)

| Catchment | A1 | B1 | B2 | | | | | | | | | | | | | | | |
|-----------------|---------|-------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Total Area | 3763 | 1032 | 2102 | | | | | | | | | | | | | | | |
| Hard Paved Area | 3763 | 1032 | 2102 | | | | | | | | | | | | | | | |
| Unpaved Area | 0 | 0 | 0 | | | | | | | | | | | | | | | |
| Equival. Area | 3574.85 | 980.4 | 1996.9 | | | | | | | | | | | | | | | |

| | | |
|--------------------|------------|---------|
| 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 mm | Gradient 1 in | Type | US IL | DS IL | U/S MH/PIT TYPE [#] | Length m | V m/s | Capacity m ³ /s | Catchments | Total Equivalent Area m ² | ToC min | Intensity mm/hr ^{**} | Total Discharge m ³ /s | Utilization | Remark |
|-----------|-------------------------|-------|-------|---------|---------------|------|-------|-------|------------------------------|----------|-------|----------------------------|------------|--------------------------------------|---------|-------------------------------|-----------------------------------|-------------|--------|
| SP01 | CP1.00 | 18.70 | 18.70 | 675 | 400 | UC | 18.03 | 17.96 | SP | 27.4 | 1.36 | 0.55 | A1 | 3574.85 | 2.30 | 305 | 0.30 | 54.9% | |
| CP1.00 | CP1.01 | 18.70 | 18.70 | 675 | 400 | UC | 17.96 | 17.89 | CP | 26.3 | 1.36 | 0.55 | A1 | 3574.85 | 2.64 | 299 | 0.30 | 53.7% | |
| CP1.01 | CP1.02 | 18.70 | 18.70 | 675 | 400 | UC | 17.89 | 17.88 | CP | 4.9 | 1.36 | 0.55 | A1 | 3574.85 | 2.96 | 293 | 0.29 | 52.7% | |
| CP1.02 | CP1.02a | 18.70 | 19.20 | 675 | 400 | UC | 17.88 | 17.81 | CP | 29.4 | 1.36 | 0.55 | A1 | 3574.85 | 3.02 | 292 | 0.29 | 52.6% | |
| CP1.02a | CP1.03 | 19.20 | 19.20 | 675 | 400 | UC | 17.81 | 17.66 | CP | 58.3 | 1.36 | 0.55 | A1 | 3574.85 | 3.38 | 286 | 0.28 | 51.5% | |
| CP1.03 | CP1.04 | 19.20 | 19.20 | 675 | 400 | UC | 17.66 | 17.60 | CP | 22.8 | 1.36 | 0.55 | A1 | 3574.85 | 4.10 | 276 | 0.27 | 49.7% | |
| CP1.04 | CP1.05 | 19.20 | 19.20 | 825 | 400 | UC | 17.52 | 17.47 | CP | 20.2 | 1.55 | 0.94 | A1,B1,B2 | 6552.15 | 4.38 | 273 | 0.50 | 52.6% | |
| CP1.05 | Exsiting 12m (W) Nullah | 19.20 | 19.20 | 825 | 400 | UC | 17.47 | 17.46 | CP | 4.6 | 1.55 | 0.94 | A1,B1,B2 | 6552.15 | 4.59 | 270 | 0.49 | 52.1% | |
| SP02 | CP2.01 | 18.70 | 18.70 | 750 | 400 | UC | 17.95 | 17.85 | SP | 40.4 | 1.46 | 0.73 | A1,B1 | 4555.25 | 2.30 | 305 | 0.39 | 52.8% | |
| CP2.01 | CP2.02 | 18.70 | 18.70 | 750 | 400 | UC | 17.85 | 17.80 | CP | 18.9 | 1.46 | 0.73 | A1,B1 | 4555.25 | 2.76 | 296 | 0.38 | 51.3% | |
| CP2.02 | CP2.02a | 18.70 | 19.20 | 750 | 400 | UC | 17.80 | 17.71 | CP | 36.3 | 1.46 | 0.73 | A1,B1 | 4555.25 | 2.98 | 293 | 0.37 | 50.7% | |
| CP2.02a | CP2.03 | 19.20 | 19.20 | 750 | 400 | UC | 17.71 | 17.58 | CP | 54 | 1.46 | 0.73 | A1,B1 | 4555.25 | 3.39 | 286 | 0.36 | 49.5% | |
| CP2.03 | CP1.04 | 19.20 | 19.20 | 750 | 400 | UC | 17.58 | 17.52 | CP | 22.1 | 1.46 | 0.73 | A1,B1 | 4555.25 | 4.01 | 277 | 0.35 | 48.0% | |

Flow From Proposed Development

| | | | | |
|----|---------|------|-----|------|
| A1 | 3574.85 | 4.59 | 270 | 0.27 |
|----|---------|------|-----|------|

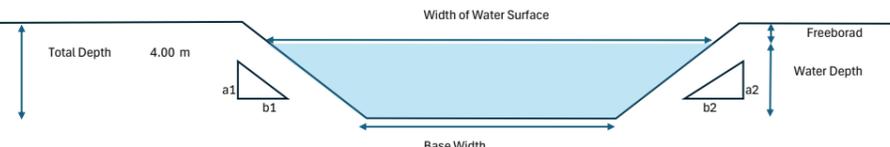
#SP: Start Point

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

Time of Concentration Checking

| Catchment | Flow Distance | Highest Level | Lowest Level | 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) |
| 1032 | 26.2 | 19 | 18.9 | 0.382 | 2.3 | 2.3 |

Capacity Checking of Existing 12m (W) Rectangular Channel for flow from Proposed Development Area



| | | |
|---------------------|-------|---|
| a1 | 1 | |
| b1 | 0.0 | |
| a2 | 1 | |
| b2 | 0.0 | |
| Total Depth | 4.00 | m |
| Base Width | 12.00 | m |
| Assumed Water Depth | 3.70 | m |
| Freeboard | 0.30 | m |

| Assumed Water Depth | Freeboard | Base Width | Width of Water Surface | Flow Area | Wetted Perimeter | Hydraulic Radius | Manning's Roughness | Gradient | Velocity | Capacity |
|---------------------|-----------|------------|------------------------|----------------|------------------|------------------|---------------------|----------|----------|-------------------|
| m | m | m | m | m ² | m | m | | 1 in | m/s | m ³ /s |
| 3.70 | 0.30 | 12.00 | 12.00 | 44.40 | 19.40 | 2.29 | 0.014 | 200 | 8.77 | 389.46 |

Total Flow due to the application = 0.27 m³/s
 Utilization Rate = 0.07%
 Total flow due to the Application Site only occupy 0.07% of the existing Channel/ Watercourse.



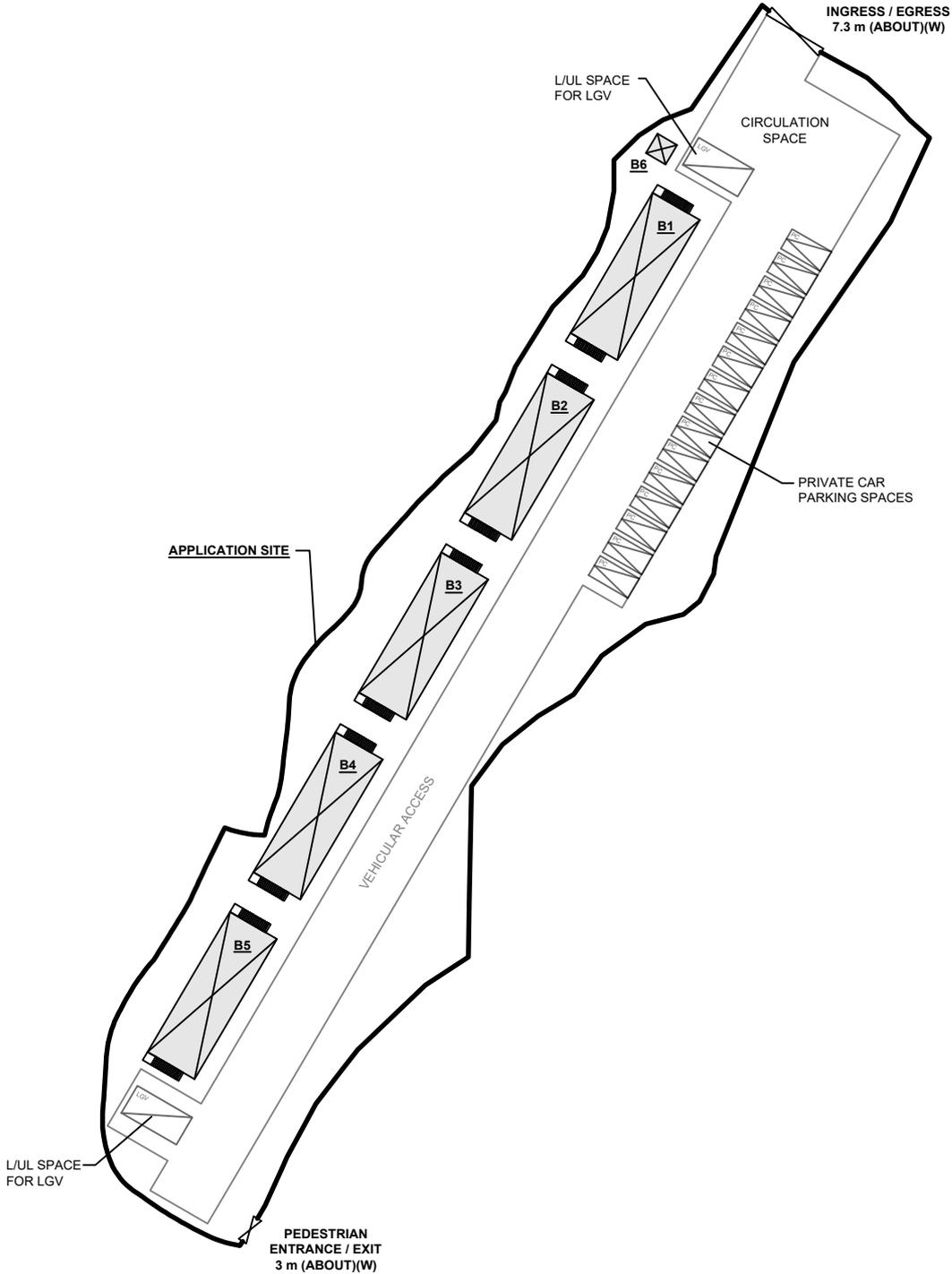
APPENDIX B - PROPOSED SITE LAYOUT PLAN

DEVELOPMENT PARAMETERS

| | | |
|-----------------------|------------------------|---------|
| APPLICATION SITE AREA | : 3,763 m ² | (ABOUT) |
| COVERED AREA | : 597 m ² | (ABOUT) |
| UNCOVERED AREA | : 3,166 m ² | (ABOUT) |
| | | |
| PLOT RATIO | : 0.3 | (ABOUT) |
| SITE COVERAGE | : 16 % | (ABOUT) |
| | | |
| NO. OF STRUCTURE | : 6 | |
| DOMESTIC GFA | : NOT APPLICABLE | |
| NON-DOMESTIC GFA | : 1,137 m ² | (ABOUT) |
| TOTAL GFA | : 1,137 m ² | (ABOUT) |
| | | |
| BUILDING HEIGHT | : 3 m - 8 m | (ABOUT) |
| NO. OF STOREY | : 1 - 2 | |

| STRUCTURE | USE | COVERED AREA | GROSS FLOOR AREA | BUILDING HEIGHT |
|--------------|--------------------------|----------------------------------|------------------------------------|-----------------------|
| B1 | S&S, OFFICE AND WASHROOM | 118 m ² (ABOUT)* | 226 m ² (ABOUT)# | 8 m (ABOUT)(2-STOREY) |
| B2 | S&S, OFFICE AND WASHROOM | 118 m ² (ABOUT)* | 226 m ² (ABOUT)# | 8 m (ABOUT)(2-STOREY) |
| B3 | S&S, OFFICE AND WASHROOM | 118 m ² (ABOUT)* | 226 m ² (ABOUT)# | 8 m (ABOUT)(2-STOREY) |
| B4 | S&S, OFFICE AND WASHROOM | 118 m ² (ABOUT)* | 226 m ² (ABOUT)# | 8 m (ABOUT)(2-STOREY) |
| B5 | S&S, OFFICE AND WASHROOM | 118 m ² (ABOUT)* | 226 m ² (ABOUT)# | 8 m (ABOUT)(2-STOREY) |
| B6 | METER ROOM | 7 m ² (ABOUT) | 7 m ² (ABOUT)# | 3 m (ABOUT)(1-STOREY) |
| TOTAL | | 597 m² (ABOUT) | 1,137 m² (ABOUT) | |

* COVERED AREA OF STRUCTURE: 108 m²(ENCLOSED) + 10 m² (STAIRCASES) = 118 m² (ABOUT)
 # GFA OF STRUCTURE: 108 m² (G/F) + 108 m² (1/F) + 10 m² (STAIRCASES) = 226 m² (ABOUT)
 S&S SHOP AND SERVICES



PARKING PROVISIONS

| | |
|--------------------------------------------|-----------------------|
| NO. OF PRIVATE CAR PARKING SPACE | : 15 |
| DIMENSION OF PARKING SPACE | : 5 m (L) X 2.5 m (W) |
| | |
| NO. OF L/U/L SPACE FOR LIGHT GOODS VEHICLE | : 2 |
| DIMENSION OF PARKING SPACE | : 7 m (L) X 3.5 m (W) |

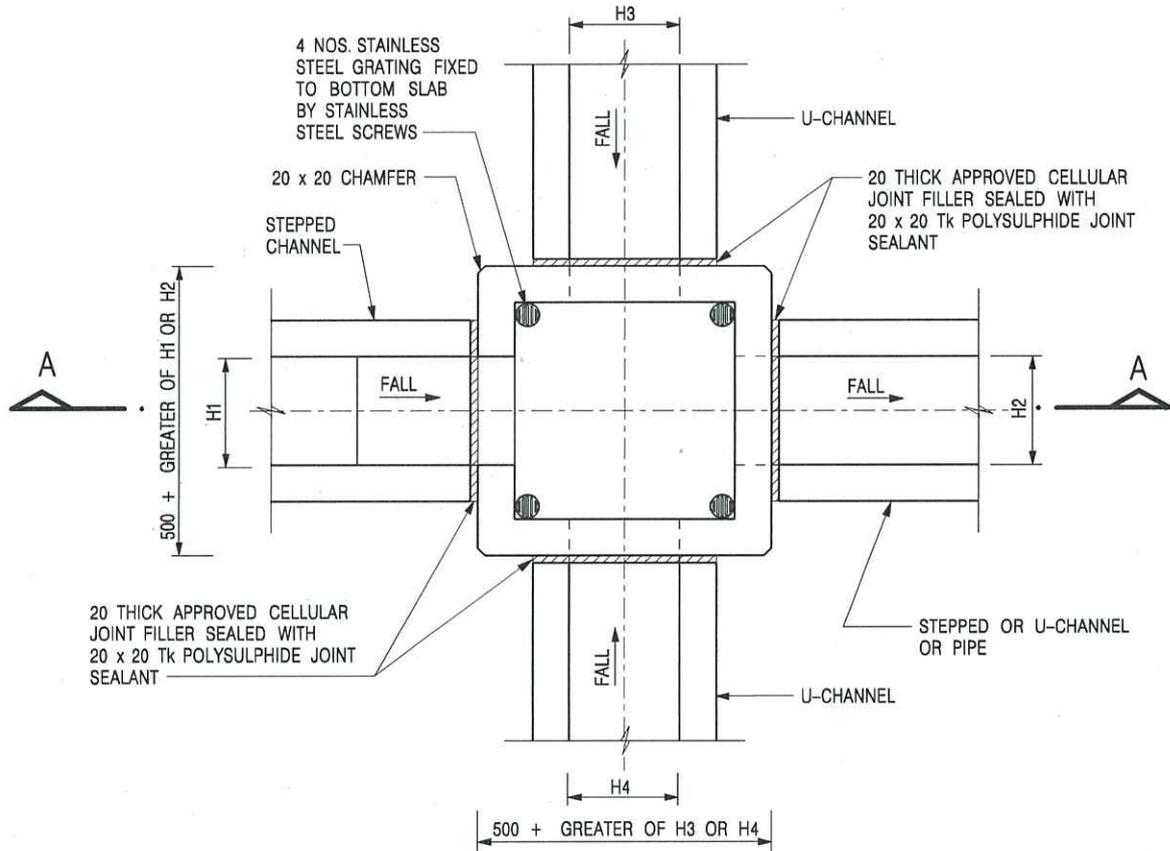
LEGEND

- APPLICATION SITE
- STRUCTURE
- PARKING SPACE (PC)
- L/U/L SPACE (LGV)
- INGRESS / EGRESS

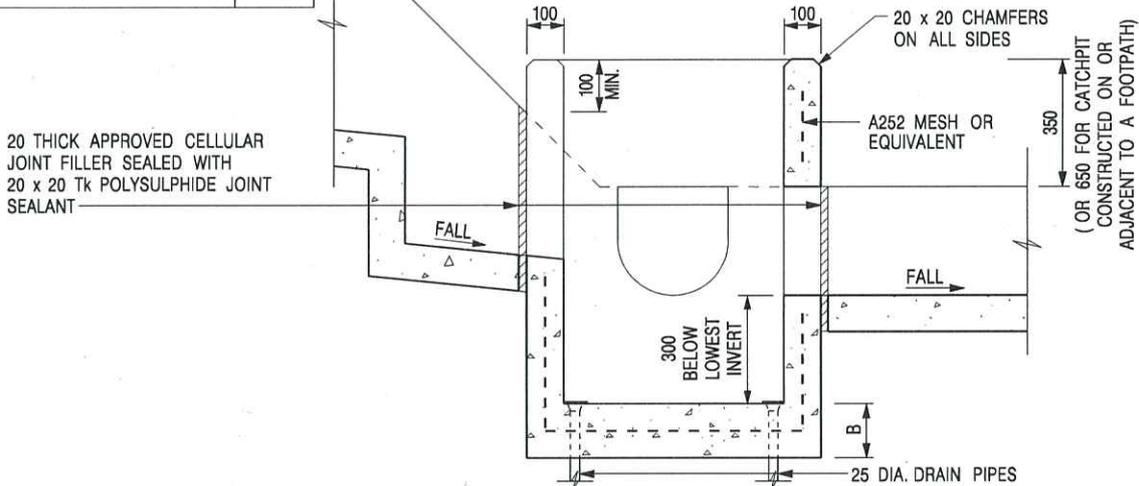
| | | | | | | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|-------------------|----------------------|-------------|
| PLANNING CONSULTANT | PROJECT PROPOSED TEMPORARY SHOP AND SERVICES AND PUBLIC VEHICLE PARK (EXCLUDING CONTAINER VEHICLE) WITH ANCILLARY FACILITIES AND ASSOCIATED FILLING OF LAND FOR A PERIOD OF 5 YEARS | ADDRESS LOT 354 IN D.D. 112, SHUI LAU TIN, SHEK KONG, YUEN LONG, NEW TERRITORIES | SCALE 1 : 750 @ A4 | | TITLE LAYOUT PLAN | |
| | | | DRAWN BY MN | DATE 18.8.2025 | DWG NO. PLAN 4 | VER. 001 |



Appendix C - Reference Drawings



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



SECTION A - A

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 2 FOR OTHER NOTES.

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

CATCHPIT WITH TRAP
(SHEET 1 OF 2)



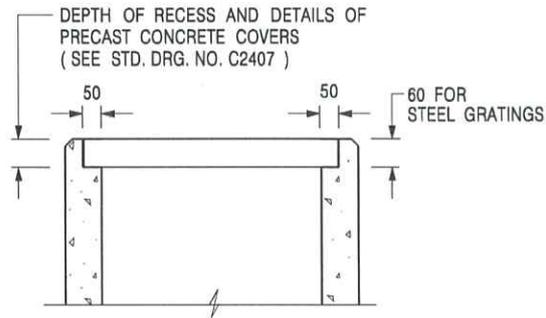
CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DRAWING NO.

DATE JAN 1991

C2406 /1



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 /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.
11. FOR RETROFITTING AN EXISTING CATCHPIT WITH STEEL GRATING, SEE DETAIL 'G' ON STD. DRG. NO. C2405 /4.
12. SUBJECT TO THE APPROVAL OF THE ENGINEER, OTHER MATERIALS CAN ALSO BE USED AS COVERS / GRATINGS.

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

CATCHPIT WITH TRAP
(SHEET 2 OF 2)



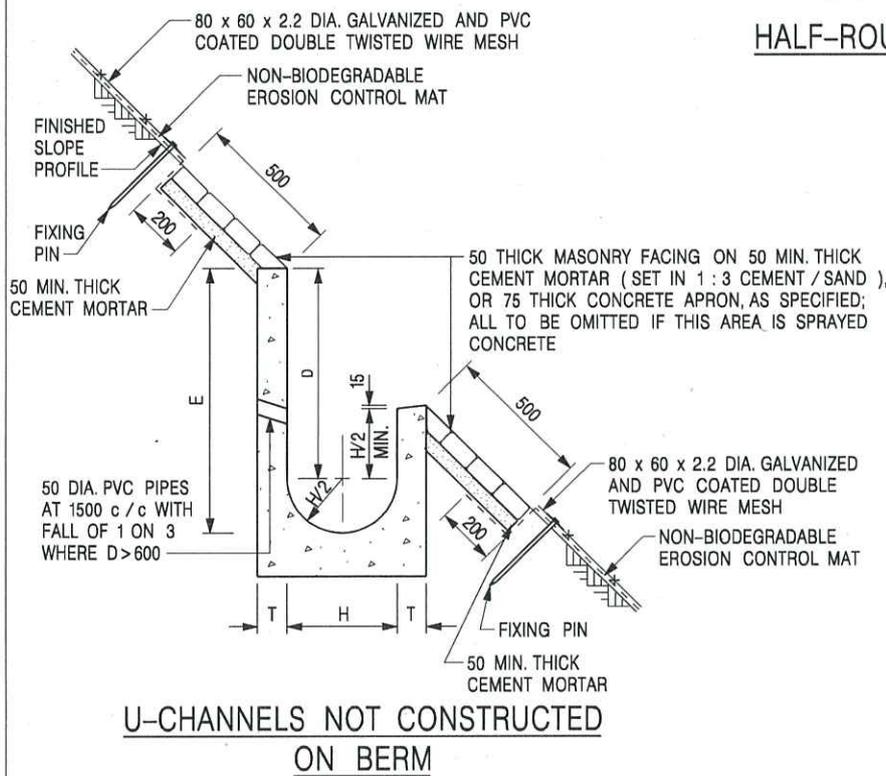
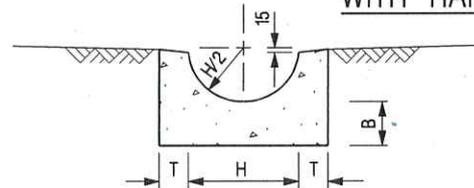
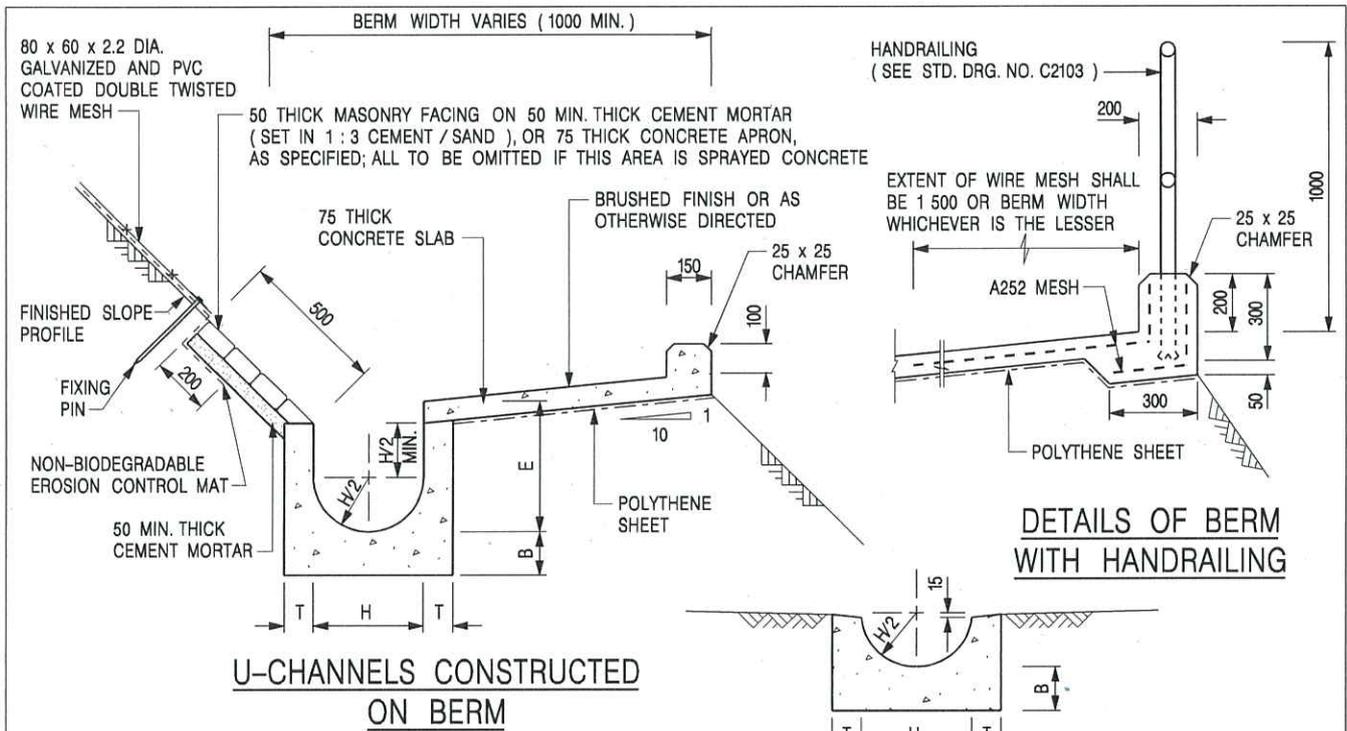
**CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT**

SCALE 1 : 20

DRAWING NO.

DATE JAN 1991

C2406 /2A



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.
4. 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. BIODEGRADABLE EROSION CONTROL MAT IF REQUIRED, SEE STD. DRG. NO. C2511/E.
8. CONCRETE TO BE COLOURED AS SPECIFIED.
9. CONCRETE U-CHANNEL CAN BE CAST IN-SITU OR PRECAST CONCRETE SUBJECT TO THE ENGINEER'S AGREEMENT ON THE DETAILS.
10. DETAILS OF EROSION CONTROL MAT AND WESH MESH ON BERM. (SEE STD DRG. NO. C2511/E)

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

| I | MINOR AMENDMENT. | Original Signed | 07.2018 |
|------|--------------------------------------|-----------------|---------|
| H | THICKNESS OF MASONRY FACING AMENDED. | Original Signed | 01.2005 |
| G | MINOR AMENDMENT. | Original Signed | 01.2004 |
| F | GENERAL REVISION. | Original Signed | 12.2002 |
| E | DRAWING TITLE AMENDED. | Original Signed | 11.2001 |
| D | MINOR AMENDMENT. | Original Signed | 08.2001 |
| C | 150 x 100 UPSTAND ADDED AT BERM. | Original Signed | 6.99 |
| B | MINOR AMENDMENTS. | Original Signed | 3.94 |
| REF. | REVISION | SIGNATURE | DATE |

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



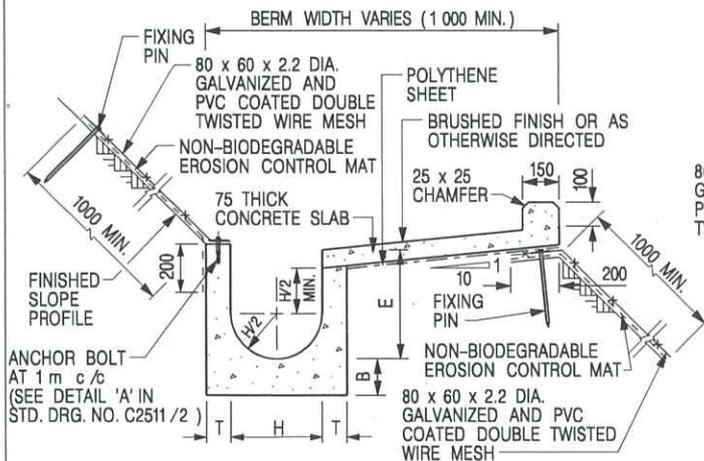
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 25

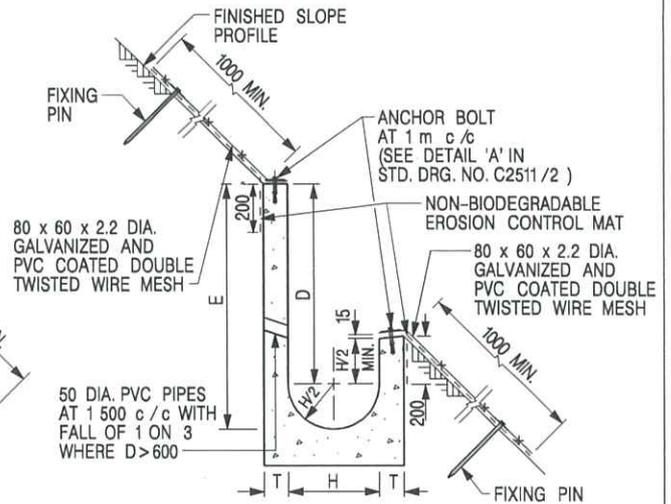
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DATE JAN 1991

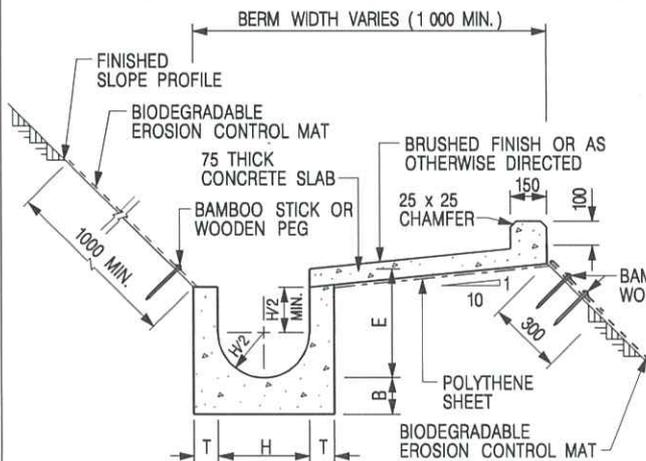
C24091



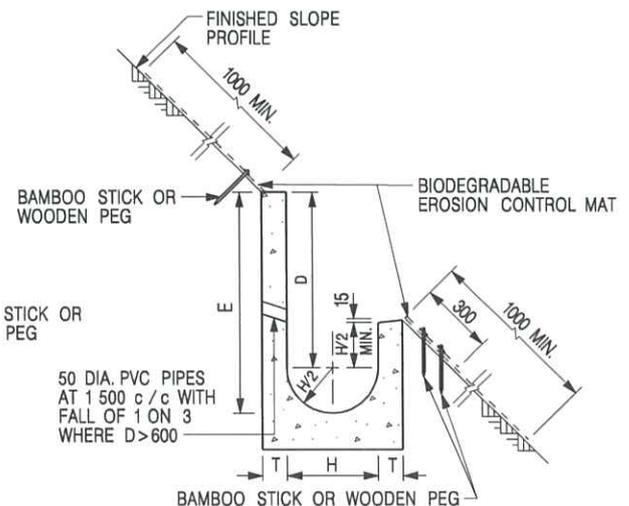
U-CHANNELS CONSTRUCTED ON BERM WITH NON-BIODEGRADABLE EROSION CONTROL MAT



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



U-CHANNELS CONSTRUCTED ON BERM WITH BIODEGRADABLE EROSION CONTROL MAT



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

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- ALL CONCRETE TO BE GRADE 20 /20.
- 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.
- JOINTS FOR CHANNELS, BERM SLABS, APRONS AND WALLS, ETC. TO BE ON THE SAME ALIGNMENT.
- FOR DIMENSIONS T, H, & B, SEE TABLE BELOW.
- FOR TYPICAL FIXING PIN DETAILS, SEE STD. DRG. NO. C2511/2.
- 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.
- 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 | T | B | REINFORCEMENT |
|-------------------|-----|-----|---------------------------------------------------|
| 300 | 80 | 100 | A252 MESH PLACED CENTRALLY AND T=100 WHEN E > 650 |
| 375 - 600 | 100 | 150 | |
| 675 - 900 | 125 | 175 | A252 MESH PLACED CENTRALLY |

| REF. | REVISION | SIGNATURE | DATE |
|------|------------------------------------------------------------|-----------------|---------|
| I | MINOR AMENDMENT. | Original Signed | 07.2018 |
| H | FIXING DETAILS OF BIODEGRADABLE EROSION CONTROL MAT ADDED. | Original Signed | 12.2017 |
| G | DIMENSION TABLE AMENDED. | Original Signed | 01.2005 |
| F | MINOR AMENDMENT. | Original Signed | 01.2004 |
| E | GENERAL REVISION. | Original Signed | 12.2002 |
| D | MINOR AMENDMENT. | Original Signed | 08.2001 |
| C | 150 x 100 UPSTAND ADDED AT BERM. | Original Signed | 6.99 |
| B | MINOR AMENDMENT. | Original Signed | 3.94 |
| A | MINOR AMENDMENT. | Original Signed | 10.92 |

DETAILS OF HALF-ROUND AND U-CHANNELS (TYPE B - WITH EROSION CONTROL MAT APRON)



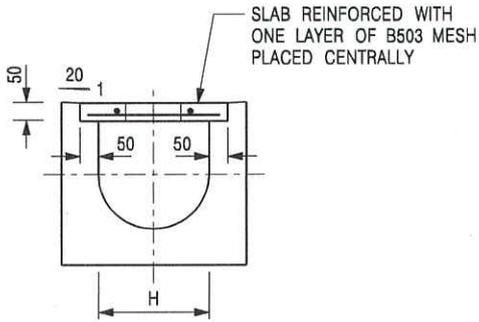
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE DIAGRAMMATIC

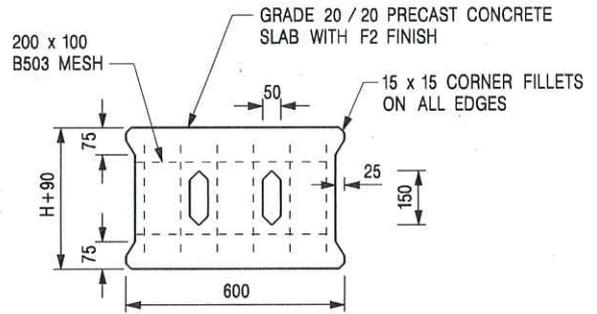
DRAWING NO.

DATE JAN 1991

C24101



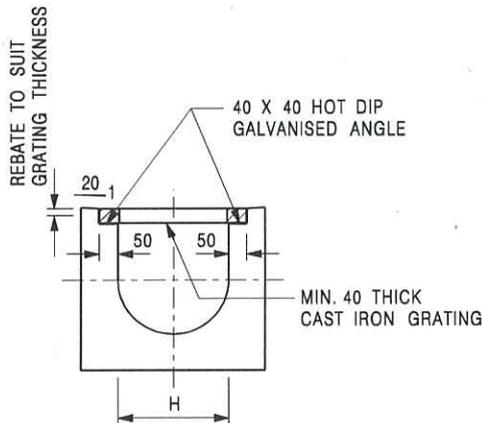
TYPICAL SECTION



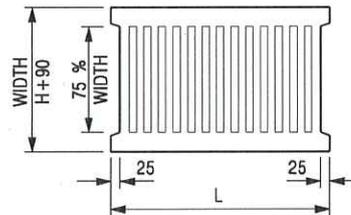
PLAN OF SLAB

U-CHANNELS WITH PRECAST CONCRETE SLABS

(UP TO H OF 525)



TYPICAL SECTION



L = 600mm FOR H ≤ 375mm
L = 400mm FOR H > 375mm

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.
3. 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.

| | | | |
|------|--------------------------------|-----------------|---------|
| E | NOTES 3 & 4 AMENDED. | Original Signed | 12.2014 |
| D | NOTE 4 ADDED. | Original Signed | 06.2008 |
| C | MINOR AMENDMENT. NOTE 3 ADDED. | Original Signed | 12.2005 |
| B | NAME OF DEPARTMENT AMENDED. | Original Signed | 01.2005 |
| A | CAST IRON GRATING AMENDED. | Original Signed | 12.2002 |
| REF. | REVISION | SIGNATURE | DATE |

COVER SLAB AND CAST IRON
GRATING FOR CHANNELS



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DRAWING NO.

DATE JAN 1991

C2412E