[redacted]

STORMWATER DRAINAGE PROPOSAL

Submitted to the Drainage Services Department (DSD)

Proposed Temporary Holiday Camp with Ancillary Facilities for a Period of 3 Years

Various Lots in D.D. 17, Ting Kok, Tai Po, New Territories

In support of Section 16 Planning Application
under the Town Planning Ordinance (Cap. 131)

[redacted]

Date: August 2026

Application. No.: [A/NE-TK/864]

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Appendix D — Endorsed Drainage Plan of the adjoining application site (same ownership), showing the downstream connection and final discharge to the sea

References

- Town Planning Board correspondence relating to the Section 16 application.
- DSD Standard Drawings for 450mm U-channels.
- DSD Standard Drawings for catchpits.
- DSD Standard Drawings for catchpits with silt/petrol interceptor traps.

1.0 Introduction and Background

The Applicant is the registered owner and/or lawful occupier of various lots situated within Demarcation District No. 17 (D.D. 17), Ting Kok, Tai Po, New Territories (hereinafter referred to as "the Application Site").

An application has been lodged with the Town Planning Board (TPB) pursuant to Section 16 of the Town Planning Ordinance (Cap. 131) for a proposed change of land use from "Agriculture" to a temporary use. The application falls under the category of "Temporary Use/Development in Rural Areas for a Period of 3 Years", and the applied development is described as "Proposed Temporary Holiday Camp with Ancillary Facilities for a Period of 3 Years". A copy of the relevant correspondence issued by the Town Planning Board is appended in the References section for the Department's ease of reference.

Pursuant to the requirements stipulated by the Town Planning Board, a Stormwater Drainage Proposal is required to be submitted and endorsed prior to the determination of the said planning application. This report has accordingly been prepared and is hereby submitted to the Drainage Services Department (DSD) for consideration and approval.

2.0 Proposed Stormwater Drainage Works

The proposed Stormwater Drainage Layout Plan, drawn to a scale of 1:500, is presented in Appendix A. Corresponding site photographs, cross-referenced to the locations indicated on the proposal plan, are enclosed in Appendix B. The extent of the Application Site is delineated in red on the drainage layout plan.

The following drainage provisions are proposed:

2.1 Surface Water Collection

A 450mm precast concrete U-channel shall be constructed along the perimeter of the Application Site to intercept and convey surface runoff generated within the site to the designated discharge point.

2.2 Catchpits

Catchpits shall be installed at each change in alignment of the U-channel to facilitate the unobstructed conveyance of stormwater and to permit routine inspection and maintenance throughout the operational life of the temporary development.

2.3 Design Gradient

The proposed U-channel shall be laid at a minimum longitudinal gradient of 1:100, in full compliance with the prevailing design standards stipulated by the Drainage Services Department for open channel drainage works.

2.4 Pollution Control Measures

A catchpit incorporating a sand trap (designated CP-G on the layout plan) is proposed at the final discharge point of the Application Site, immediately upstream of the connection to the existing downstream drainage system. This provision is intended to prevent the discharge of sand or waste into the receiving watercourse and ultimately into the marine environment.

2.5 Standard Drawings

Standard details for all proposed U-channels, catchpits, and catchpits with interceptor traps are enclosed in the References section for the Department's reference and verification.

2.6 General Notes

The General Notes, encompassing the general design requirements, design assumptions, material specifications, construction obligations, and post-construction maintenance responsibilities applicable to the proposed drainage works, are set out in Appendix C.

3.0 Existing Drainage System, Connection Points and Final Point of Discharge

All stormwater collected within the Application Site via the proposed U-channel and catchpits shall be conveyed by gravity flow to Catchpit CP-G. From CP-G, the collected flow shall be discharged into Catchpit CP2 situated within an adjoining application site held under the same ownership.

The endorsed drainage layout plan of the said adjoining application site is enclosed in Appendix D, illustrating the continuation of the drainage alignment from CP2 through the downstream network and demonstrating that the collected stormwater will ultimately be discharged into the sea via the existing drainage infrastructure.

The final point of discharge is further evidenced by the site photographs at Appendix B (Photos 05, 06, 07 and 08), and the overall discharge route from the Application Site to the ultimate outfall is diagrammatically illustrated in Appendix D.

4.0 Conclusion

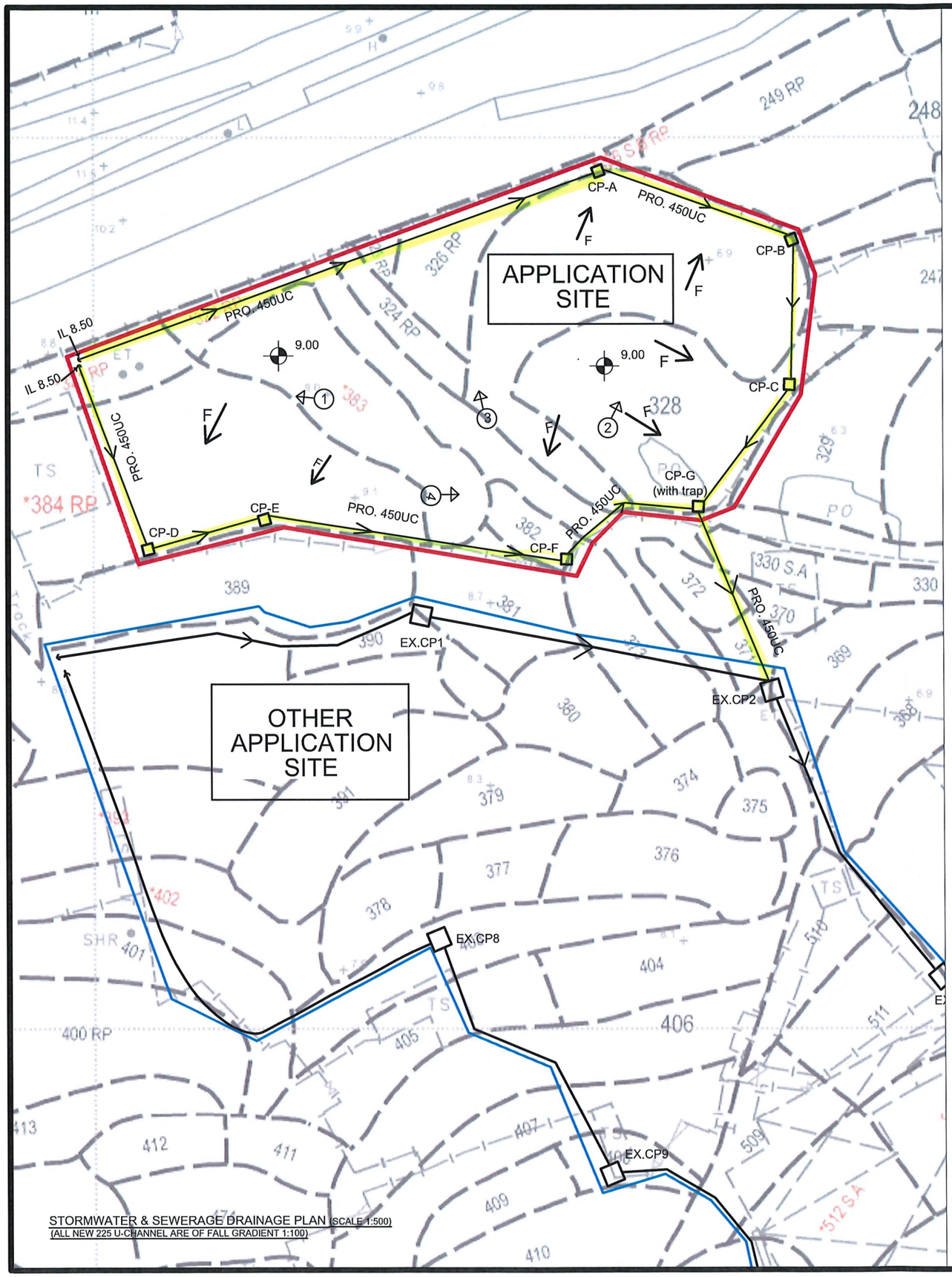
In summary, the proposed stormwater drainage scheme comprises the following principal elements, all of which have been designed in strict accordance with the design standards and requirements of the Drainage Services Department:

- A 450mm precast concrete U-channel installed along the boundary of the Application Site;
- Catchpits at all changes in alignment to facilitate flow and maintenance;
- A catchpit incorporating a sand trap (CP-G) at the final point of discharge; and

- Connection to the endorsed downstream drainage system of the adjoining application site, with ultimate discharge to the sea.

Having regard to the foregoing, it is respectfully submitted that the proposed drainage arrangement is technically sound, adequate for the intended temporary development, and adopts appropriate measures to safeguard the downstream drainage system and the receiving marine environment. Your Department's favourable consideration and endorsement of this Drainage Proposal would be much appreciated.

Appendix A — Proposed Stormwater Drainage Layout Plan (Scale 1:500)



STORMWATER & SEWERAGE DRAINAGE PLAN (SCALE 1:500)
(ALL NEW 225 U-CHANNEL ARE OF FALL GRADIENT 1:100)

COLOUR INDICATION

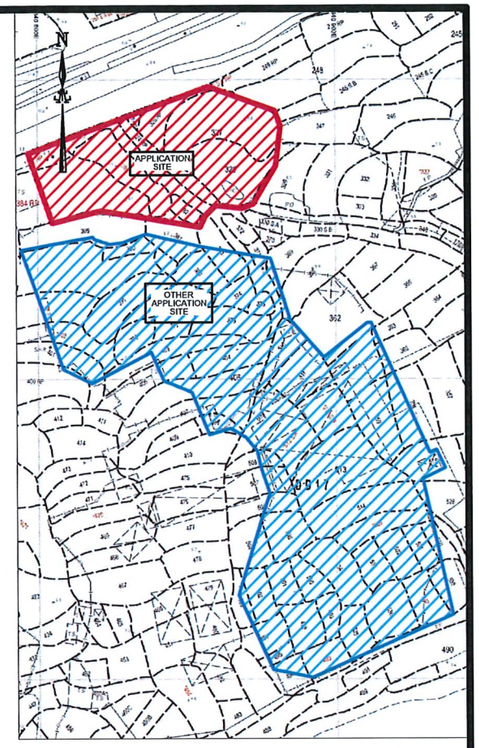
- PROPOSED STORMWATER WORKS
- PROPOSED SEWERAGE WORKS
- CONCRETE WORKS
- STEEL WORKS

LEGEND

- PROPOSED SITE FORMATION LEVEL
- EXISTING SITE FORMATION LEVEL
- FLOW PATTERN
- SUBJECT LOT BOUNDARY
- SUBJECT BUILDING LINE
- PRO.225 UC — PROPOSED 225mm / 300mm /450mm U - CHANNEL with CONC./C.I.COVER
- PRO.225mm STEP CHANNEL — PROPOSED 225mm STEP CHANNEL
- PRO.75ϕ UPVC — PROPOSED 75ϕ UPVC PIPE FOR RAINWATER ROOF FALL
- PRO.150ϕ/200ϕ PE100 — PROPOSED 150ϕ/200ϕ POLYETHYLENE (PE100) PIPE
- PRO.225ϕ UPVC UNDERGROUND PIPE — PROPOSED 225ϕ UPVC UNDERGROUND PIPE
- EXISTING STORMWATER MANHOLE
- PROPOSED STORMWATER CATCHPIT
- PROPOSED SEWERAGE MANHOLE
- EXISTING GOVERNMENT SEWERAGE MANHOLE
- PROPOSED SEWERAGE TERMINAL MANHOLE
- C.L. — COVER LEVEL
- I.L. — INVERT LEVEL
- D.T.L. — DISCONNECTING TRAP LEVEL

STORMWATER CATCHPIT LEVEL

	C.L.	A1	A2	I.L.
CP-A (CEDD DRAWING NO.C2405/1)	9.00	7.9	-------	7.9
CP-B (CEDD DRAWING NO.C2405/1)	9.00	7.67	-------	7.67
CP-C (CEDD DRAWING NO.C2405/1)	9.00	7.5	-------	7.5
CP-D (CEDD DRAWING NO.C2405/1)	9.00	8.27	-------	8.27
CP-E (CEDD DRAWING NO.C2405/1)	9.00	8.13	-------	8.3
CP-F (CEDD DRAWING NO.C2405/1)	9.00	7.81	-------	7.81
CP-G (with trap) (CEDD DRAWING NO.C2406/1)	9.00	7.62	7.34	7.34
EX CP2 (CEDD DRAWING NO.C2405/1)	7.5	6.95	6.95	6.95



BLOCK PLAN (SCALE 1 : 1000)

REVISION		
NO.	DATE	

THIS SET OF DRAWING INCLUDES:

DLO Ref.:	(85) IN DLO/TP 317/TPT/64	
	NAME	
DRAWN	Helen Deng	DATE 08/2026
CHECKED	Kenny Lam	08/2026

PROJECT

PROPOSED
STORMWATER DRAINAGE
WORKS FOR
A/NE-TK/864
VARIOUS LOTS IN DD17, TING KOK,TAI PO

DRAWING TITLE

BLOCK PLAN,
STORMWATER & SEWERAGE DRAINAGE PLAN,
DETAILS AND NOTES

DRAWING NO.	SCALE
D - 1	1:500

Leading Vantage 領瀛

Appendix B — Site Photographs, cross-referenced to the drainage layout plan

SITE PHOTO FOR A/NE-TK/864

Photo - 01

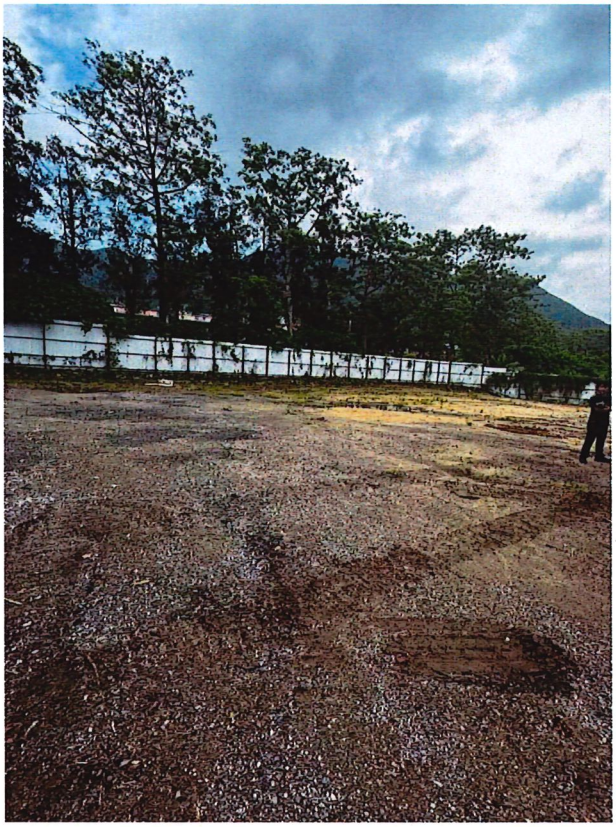


Photo - 02

Photo – 03

Photo - 04

Photo - 05

Photo - 06

Photo - 07

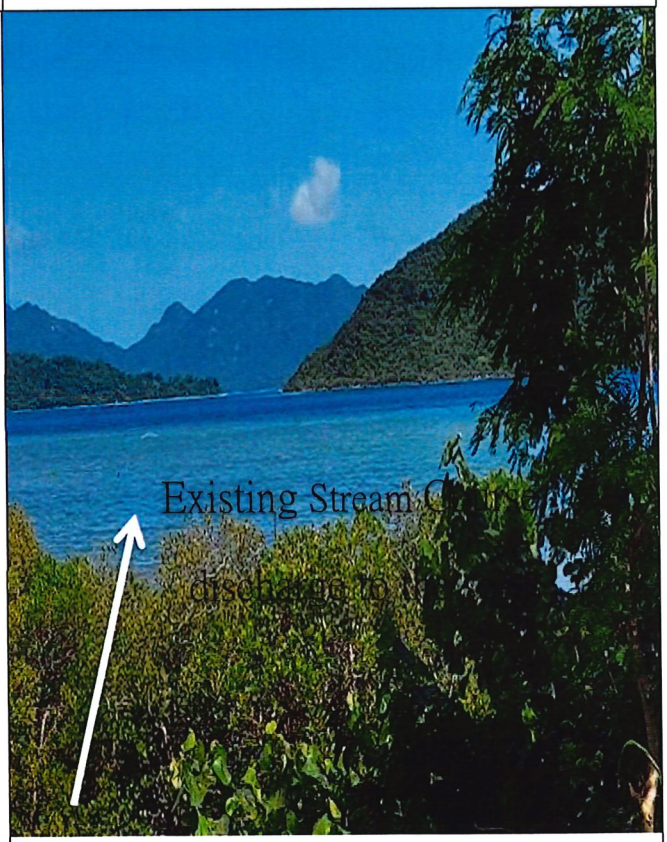


Photo-08

SITE PHOTO FOR A/NE-TK/864

Appendix C— General Notes: design requirements, design assumptions, material specifications, implementation obligations, and maintenance responsibilities

GENERAL NOTES FOR DRAINAGE WORKS

The following notes set out the general requirements, design assumptions, material specifications, and implementation obligations applicable to the proposed drainage works.

1. GENERAL NOTES

1. All dimensions shown on the drawings are in millimetres unless noted otherwise.
2. The proposed drainage works, whether within or outside the application site, will be constructed and maintained by the applicant at the applicant's own cost.
3. The applicant will ensure that the proposed drainage works are implemented in a practical and satisfactory manner on site, particularly where drainage connections pass through Government land and/or adjoining private lots.
4. Any part of the proposed sewerage system or stormwater drainage system located within private lots outside the application site will be subject to agreement with the relevant lot owners and, where required, approval from the Lands Department for the laying, alteration, upgrading, or connection of drains, channels, and sewers.
5. The applicant will take all necessary precautionary measures to prevent disturbance, damage, or pollution to any existing drainage facilities in the vicinity of the application site during construction.
6. Any damage caused to existing drainage facilities arising from the works will be made good by the applicant at the applicant's own cost, including all necessary repair works, compensation, and associated liabilities.

2. MATERIALS AND STRUCTURAL REQUIREMENTS

1. Structural concrete will be Grade 30D/20 design mix and will comply with CSI:1990.
2. Blinding concrete will be Grade 15P mix.
3. Minimum concrete cover to main reinforcement will be 50 mm.
4. Reinforcement marked "R" denotes mild steel bars with a yield strength of 250 MPa, and reinforcement marked "Y" denotes high-yield steel bars with a yield strength of 460 MPa, in compliance with BS 4449:1988 and CS2:1995.
5. The foundation details of the terminal manhole will be determined on site by the Engineer to suit the actual ground conditions encountered.

3. DRAINAGE AND SEWERAGE REQUIREMENTS

1. All drains from the village house to the manhole will be 100 mm diameter PVC pipes laid to a minimum gradient of 1 in 40.
2. All drains from the terminal manhole to the manhole will be 150 mm diameter PE100 pipes laid to a minimum gradient of 1 in 70.
3. All drains from the manhole to the existing manhole will be 200 mm diameter PE100 pipes laid to a minimum gradient of 1 in 70.
4. Buried sewers from the terminal manhole to the existing DSD manhole on Government land will be constructed of PE100 pipes.
5. The proposed connection sewer constructed beneath footpaths and carriageways will be provided with minimum soil covers of 450 mm and 900 mm respectively.
6. Each sewerage terminal manhole will be provided with a 100 mm diameter PVC fresh air inlet pipe extending to not less than 2.5 m above ground level.
7. The invert levels of the inlet and outlet U-channels will be set at the same level unless otherwise shown on the approved drawings.
8. The inlet and outlet invert levels of the proposed catchpits will be set at the same level unless otherwise shown on the approved drawings.
9. Existing manhole cover levels and invert levels will be verified on site prior to commencement of construction. Any discrepancy between site conditions and record information will be referred to the Engineer for instruction.

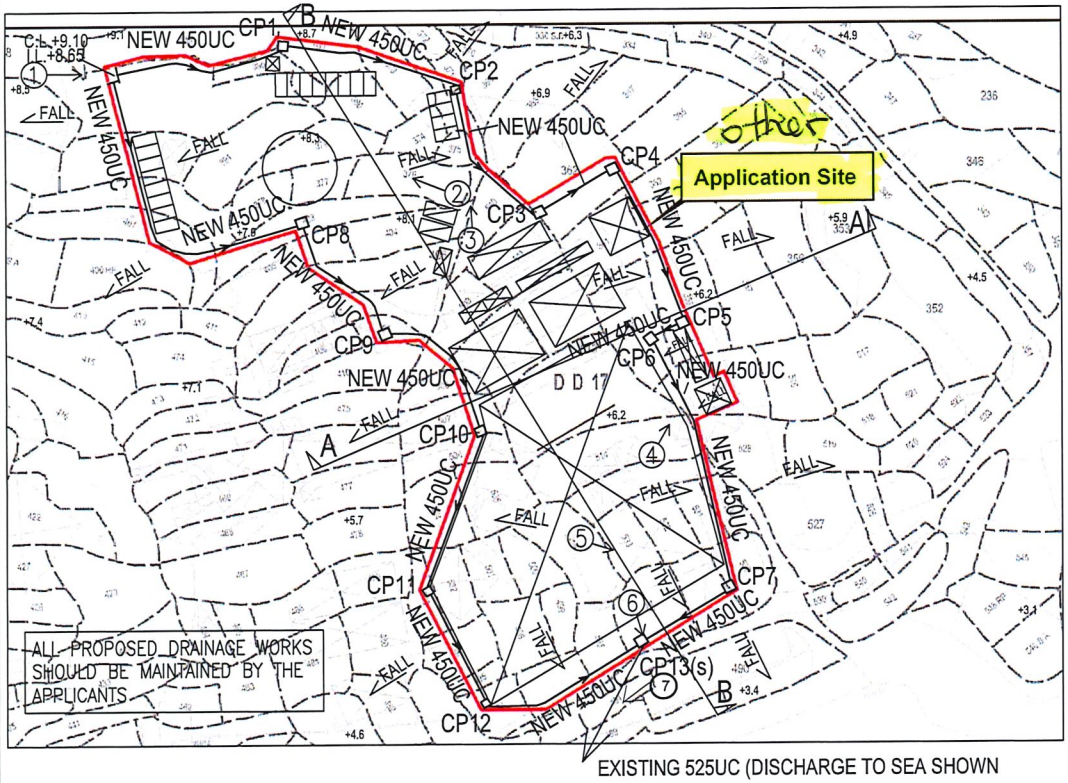
4. STORMWATER AND DISCHARGE CONTROL

1. Surface runoff from the subject site will not be discharged into the public foul sewerage network.
2. Runoff generated within the subject premises and the proposed Small House will be collected and conveyed by a designated stormwater collection and discharge system.
3. Where runoff is proposed to discharge to an existing downstream drainage system not maintained by DSD, the applicant will resolve any interface issues with the relevant parties and will ensure that the receiving system, including all downstream drains, channels, and watercourses, has adequate capacity to accommodate the additional runoff.
4. Regular inspection and maintenance of the drainage system will be carried out by the applicant to prevent blockage and to ensure satisfactory operation at all times.
5. Domestic wastewater, including discharges from kitchens, bathrooms, toilets, washbasins, and washing machines, will not be connected to or discharged into the stormwater drainage system.

5. OPERATION, MAINTENANCE AND LIABILITY

1. If any part of the existing or proposed drainage system is found to be inadequate, ineffective, or defective during operation, the applicant will carry out the necessary rectification, modification, or upgrading works.
2. The applicant will remain fully responsible for the performance of the proposed drainage works and will indemnify the Government against all claims, demands, nuisance, loss, or damage arising from failure or malfunction of the system.
3. The applicant understands that the Government's desk-top checking of the drainage proposal covers only the fundamental aspects of the submitted design and does not relieve the applicant of the responsibility to ensure that: (i) the proposed drainage works will not cause adverse drainage or environmental impacts in the vicinity; and (ii) the proposed drainage works and the downstream drainage systems have adequate capacity and are in satisfactory condition to receive and convey the flows collected from the application site.

Appendix D — Endorsed Drainage Plan of the adjoining application site (same ownership), showing the downstream connection and final discharge to the sea



LEGEND:

- NEW 450UC → PROPOSED 450mm U–CHANNEL WITH GRATING AT FALL 1: 100 (MIN)
- CP13(s) □ PROPOSED COVERED DESILTED CATCHPIT NO. CP13
- CP1 □ PROPOSED COVERED CATCHPIT NO. CP1
- +4.5 EXISTING GROUND LEVEL
- ⊠ PROPOSED STRUCTURES UNDER PLANNING APPLICATION (FOR REFERENCE ONLY)
- ①→ PHOTO TAKING DIRECTION

PROPOSED CATCHPIT SCHEDULE

CATCHPIT	C.L. (mPD)	I.L. (mPD)
CP1	8.70	8.15
CP2	7.50	6.95
CP3	7.50	6.61
CP4	6.90	6.35
CP5	6.20	5.65
CP6	6.20	5.59
CP7	4.0	3.45
CP8	7.90	7.35
CP9	7.10	6.55
CP10	6.20	5.65
CP11	5.70	5.15
CP12	4.60	4.05
CP13(s)	3.40	2.85

GENERAL NOTE

1. THE PROPOSED DRAINAGE WORK, WHETHER WITHIN OR OUTSIDE THE LOT BOUNDARY, SHOULD BE CONSTRUCTED AND MAINTAINED BY THE LOT OWNER AT HIS OWN EXPENSE. FOR WORKS TO BE UNDERTAKEN OUTSIDE THE LOT BOUNDARY, PRIOR CONSENT AND AGREEMENT FROM DLO AND/OR RELEVANT PRIVATE LOT OWNER SHOULD BE SOUGHT.
2. NO WALL AND HOARDING WOULD BE ERECTED UNDER THIS APPLICATION.

CONCRETE STRENGTH AND STEEL REINFORCEMENT SPECIFICATION FOR DRAINAGE DETAILS

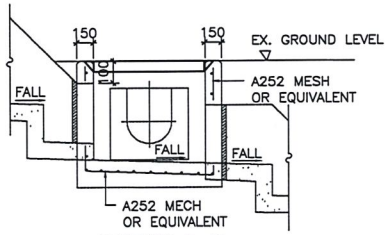
1. CONCRETE GRADE FOR CATCHPITS AND U–CHANNEL SHALL BE 30D DESIGN IN COMPLIANCE WITH CS1 : 2010
   FOR BLINDING LAYER SHALL BE 15D, DESIGN COMPLY WITH CS1–2010.
2. ALL MAIN BARS TO BE HOT ROLLED HIGH YIELD STEEL DEFORMED BAR COMPLM WITH CS2 : 2012
   Y – HIGH YIELD BAR 500 MPa
   M – MILD STEEL BAR 250 MPa
3. CONCRETE COVER TO MAIN REINFORCEMENT TO BE 50mm.
4. LAP LENGTH FOR ALL BARS TO BE 46x DIAMETER OF LARGER BAR TO BE LAPPED.
5. REACTIVE ALKALI CONTENT EXPRESSED IN SODIUM OXIDE PER CUBIC METER OF CONCRETE SHOULD NOT EXCEED 3KG AS PER PNAP APP–74.

HALF ROUND, U, AND STEPPED – CHANNELS

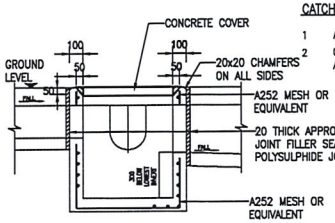
1 ALL DIMENSIONS ARE IN MILLIMETERS
2 CONCRETE SURFACE FINISHING SHALL BE CLASS U2 OR F2 AS APPROPRIATE
3 FOR HALF ROUND AND U – CHANNEL, SPACING OF EXPANSION JOINT IN CHANNELS, BERMS AND APRON TO BE 10m MAXIMUN. FOR STEPPED CHANNELS, EXPANSION JOINTS TO BE PROVIDED AT A MAXIMUN SPACING OF 10m.
4 DIMENSIONS FOR HALF ROUND AND U–CHANNELS SEE TABLE 1.
5 THE COVER FOR U–CHANNELS AND CATCHPIT SHALL COMPLY WITH CEDD'S STANDARD DRAWINGS NO. C2405 TO C2407 AND C2412.
6 ALL PROPOSED U–CHANNELS SHALL BE COVERED WITH GRATING

TABLE 1 : DIMENSION OF U–CHANNEL AND HALF–ROUND CHANNEL

NORMAL SIZE H	T	B	REINFORCING
<300	100	100	NIL
375 – 675	150	150	NIL
750 – 900	175	175	A252 MESH PLACED CENTRALLY

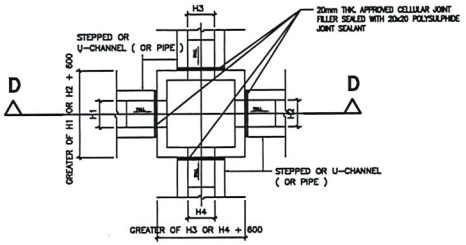


SECTION D–D
N.T.S.



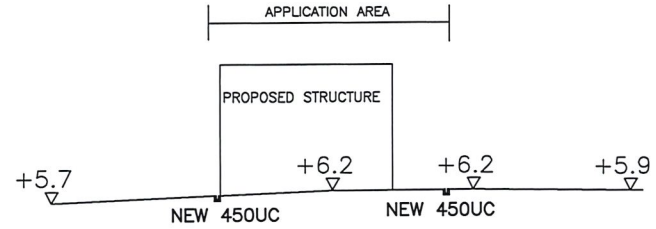
SECTION D – D WITH DESILTED TRAP
COMPLY WITH CEDD'S DRAWING NO. DS C2405 AND C2406

CATCHPITS
1 ALL DIMENSIONS ARE IN MILLIMETRES
2 CONCERTE SURFACE FINISH SHALL BE CLASS U2 OR F3 AS APPROPRIATE

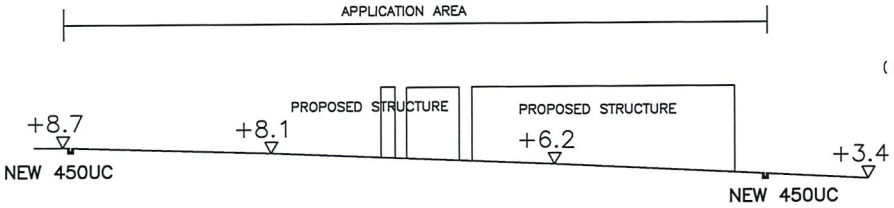


PLAN

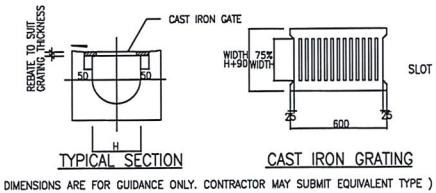
TYPICAL DETAILS OF CATCHPIT



SECTION A–A
(NO EXCAVATIONA AND FILLING WORKS WOULD BE PROPOSED IN THIS APPLICATION)

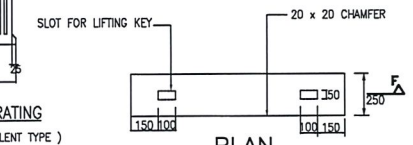


SECTION B–B
(NO EXCAVATIONA AND FILLING WORKS WOULD BE PROPOSED IN THE APPLICATION)

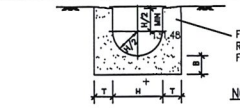


TYPICAL SECTION
CAST IRON GRATING
(DIMENSIONS ARE FOR GUIDANCE ONLY. CONTRACTOR MAY SUBMIT EQUIVALENT TYPE)

U–CHANNEL WITH CAST IRON GRATING



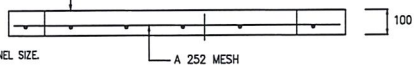
PLAN
N.T.S.



NOTES:
1. H = NOMINAL CHANNEL SIZE.

U–CHANNEL
COMPLY WITH FIG 8.11 OF GEOTECHNICAL MANUAL FOR SLOPES

GRADE 25D CONCRETE WITH ONE LAYER OF A 252 MESH REINFORCEMENT PLACED CENTRALLY F2 AND U2 FINISH



PRECAST CONCRETE COVERS FOR CATCHPIT
N.T.S.

REV	DESCRIPTION	CHECKED	APPROVED	DWN	DATE
	DLO SUBMIT	RC	AY	RY	JUNE 25

PROJECT TITLE:
STORMWATER DRAINAGE PROPOSAL
FOR VARIOUS LOT IN D.D.17 TING KOK, TAI PO

DRAWING TITLE:
DRAINAGE PROPOSAL PLAN
AND TYPICAL DETAILS

SCALE :	1:1500	CAD FILE:	CAD_REF
DRAWN	RY	DRAWING NO.	SDP001
S.D	RY		
DESIGNED	RC		
CHECKED	AY	B.D. REF. NO.:	

Reference:

- Town Planning Board correspondence relating to the Section 16 application.

Broad Development Parameters of the Applied Use/Development in respect of Application No. A/NE-TK/864
關乎申請編號 A/NE-TK/864 的擬議用途/發展的概括發展規範

Application No. 申請編號	A/NE-TK/864		
Location/address 位置／地址	Various Lots in D.D. 17 and Adjoining Government Land, Ting Kok, Tai Po 大埔汀角丈量約份第 17 約多個地段和毗連政府土地		
Site area 地盤面積	About 約 2,600 sq. m 平方米 (Includes Government Land of about 包括政府土地約 170 sq. m 平方米)		
Plan 圖則	Approved Ting Kok Outline Zoning Plan No. S/NE-TK/19 汀角分區計劃大綱核准圖編號 S/NE-TK/19		
Zoning 地帶	"Agriculture" 「農業」		
Type of Application 申請類別	Temporary Use/Development in Rural Areas for a Period of 3 Years 位於鄉郊地區的臨時用途/發展為期 3 年		
Applied use/ development 申請用途/發展	Proposed Temporary Holiday Camp with Ancillary Facilities for a Period of 3 Years 擬議臨時度假營連附屬設施（為期 3 年）		
Gross floor area and/or plot ratio 總樓面面積及／或地積比率		sq. m 平方米	Plot ratio 地積比率
	Domestic 住用	-	-
	Non-domestic 非住用	About 約 60	About 約 0.023
No. of block 幢數	Domestic 住用	-	
	Non-domestic 非住用	3	
Building height/ No. of storeys 建築物高度／層數	Domestic 住用	-	m 米
		-	mPD 米(主水平基準上)
		-	Storey(s) 層
	Non-domestic 非住用	Not more than 不多於 3	m 米
		-	mPD 米(主水平基準上)
		Not more than 不多於 1	Storey(s) 層
Site coverage 上蓋面積	About 約 2.31 %		

No. of parking spaces and loading / unloading spaces 停車位及上落客貨車位數目	Total no. of vehicle spaces 停車位總數	12
	Private Car Parking Spaces 私家車車位	12

* 有關資料是為方便市民大眾參考而提供。對於所載資料在使用上的問題及文義上的歧異，城市規劃委員會概不負責。若有任何疑問，應查閱申請人提交的文件。

The information is provided for easy reference of the general public. Under no circumstances will the Town Planning Board accept any liabilities for the use of the information nor any inaccuracies or discrepancies of the information provided. In case of doubt, reference should always be made to the submission of the applicant.

Submitted Plans, Drawings and Documents 提交的圖則、繪圖及文件	Chinese 中文	English 英文
Plans and Drawings 圖則及繪圖		
Master layout plan(s)/Layout plan(s) 總綱發展藍圖／布局設計圖	☐	☑
Block plan(s) 樓宇位置圖	☐	☐
Floor plan(s) 樓宇平面圖	☐	☐
Sectional plan(s) 截視圖	☐	☐
Elevation(s) 立視圖	☐	☐
Photomontage(s) showing the proposed development 顯示擬議發展的合成照片	☐	☐
Master landscape plan(s)/Landscape plan(s) 園境設計總圖／園境設計圖	☐	☐
Others (please specify) 其他（請註明）	☐	☑
Site plan 平面圖		
Location plan 位置圖		
Reports 報告書		
Planning Statement / Justifications 規劃綱領 / 理據	☑	☐
Environmental assessment (noise, air and/or water pollutions) 環境評估（噪音、空氣及／或水的污染）	☐	☐
Traffic impact assessment (on vehicles) 就車輛的交通影響評估	☐	☐
Traffic impact assessment (on pedestrians) 就行人的交通影響評估	☐	☐
Visual impact assessment 視覺影響評估	☐	☐
Landscape impact assessment 景觀影響評估	☐	☐
Tree Survey 樹木調查	☐	☐
Geotechnical impact assessment 土力影響評估	☐	☐
Drainage impact assessment 排水影響評估	☐	☐
Sewerage impact assessment 排污影響評估	☐	☐
Risk Assessment 風險評估	☐	☐
Others (please specify) 其他（請註明）	☑	☐
Estimated traffic flow report 預計車輛進出流量報告		

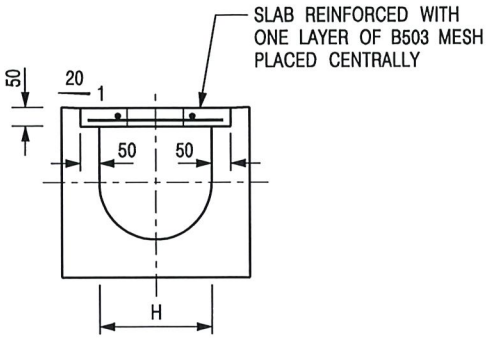
Note: May insert more than one「✔」. 註：可在多於一個方格內加上「✔」號

Note: The information in the Gist of Application above is provided by the applicant for easy reference of the general public. Under no circumstances will the Town Planning Board accept any liabilities for the use of the information nor any inaccuracies or discrepancies of the information provided. In case of doubt, reference should always be made to the submission of the applicant.

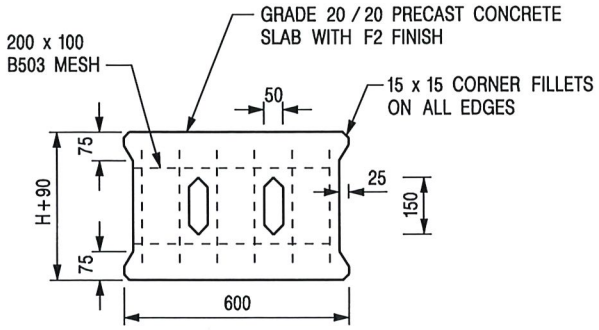
註： 上述申請摘要的資料是由申請人提供以方便市民大眾參考。對於所載資料在使用上的問題及文義上的歧異，城市規劃委員會概不負責。若有任何疑問，應查閱申請人提交的文件。

Reference:

- DSD Standard Drawings for 450mm U-channels
- DSD Standard Drawings for catchpits
- DSD Standard Drawings for catchpits with Sand traps



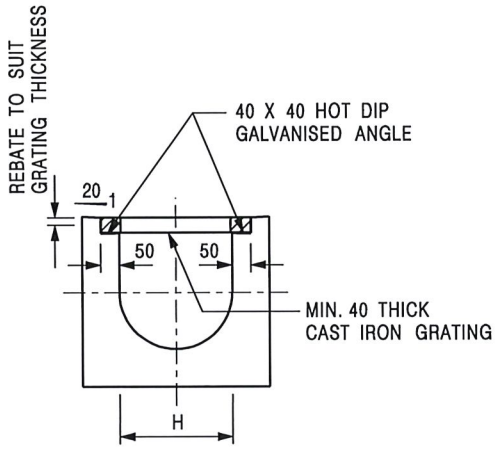
TYPICAL SECTION



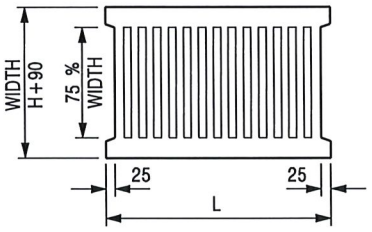
PLAN OF SLAB

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.

REF.	REVISION	SIGNATURE	DATE
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

COVER SLAB AND CAST IRON GRATING FOR CHANNELS

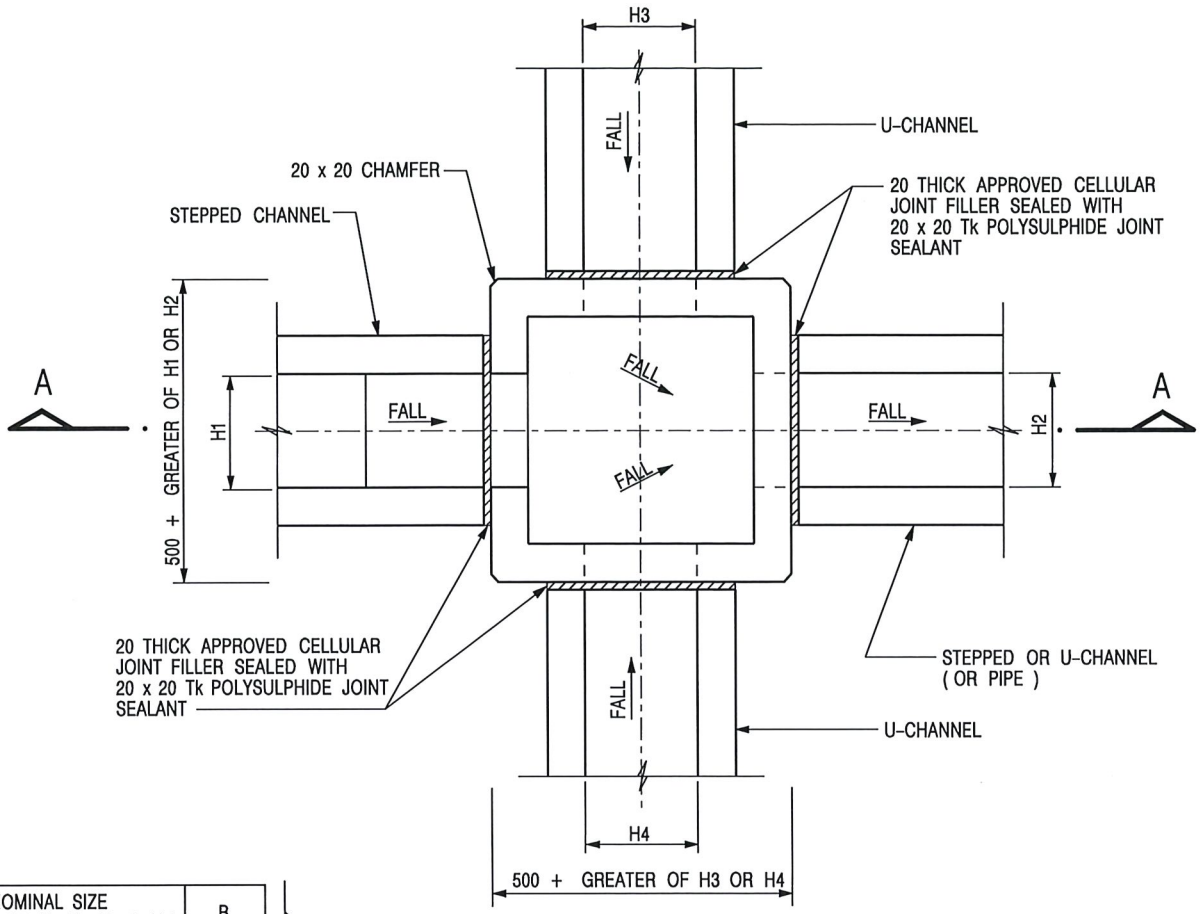
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

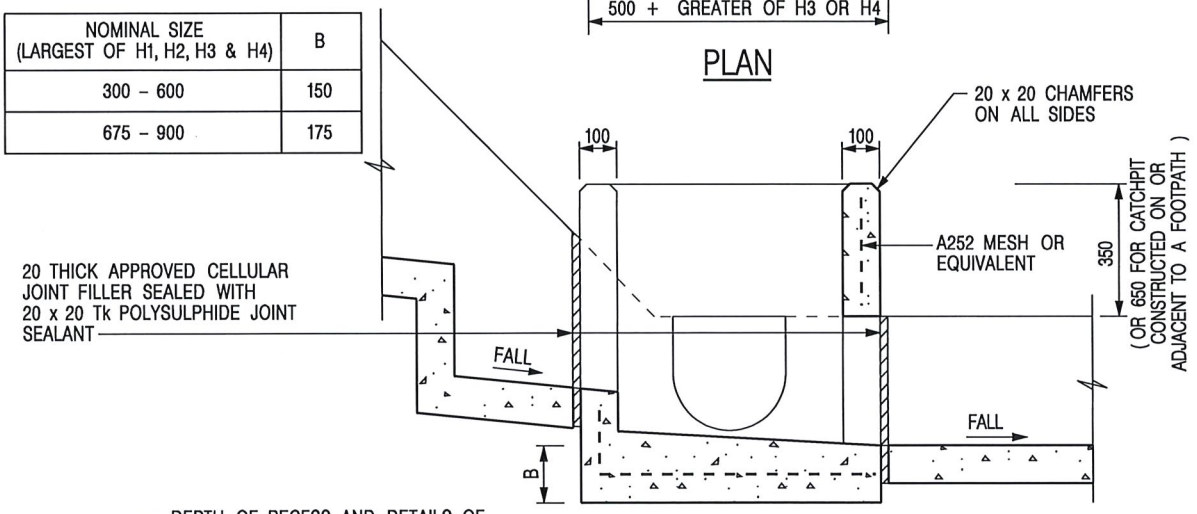
DRAWING NO. C2412E

卓越工程 建設香港 We Engineer Hong Kong's Development

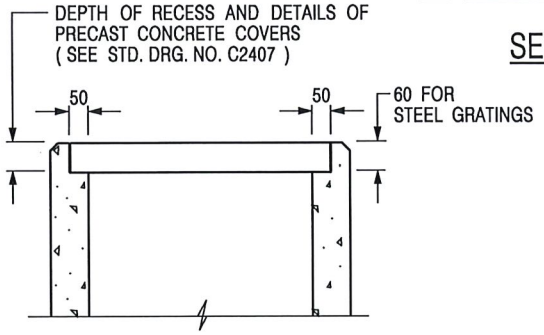


PLAN

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



SECTION A – A



ALTERNATIVE TOP SECTION FOR PRECAST CONCRETE COVERS / GRATINGS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. REFER TO SHEET 5 FOR OTHER NOTES.

REF.	REVISION	SIGNATURE	DATE
–	FORMER DRG. NO. C2405J.	Original Signed	03.2015

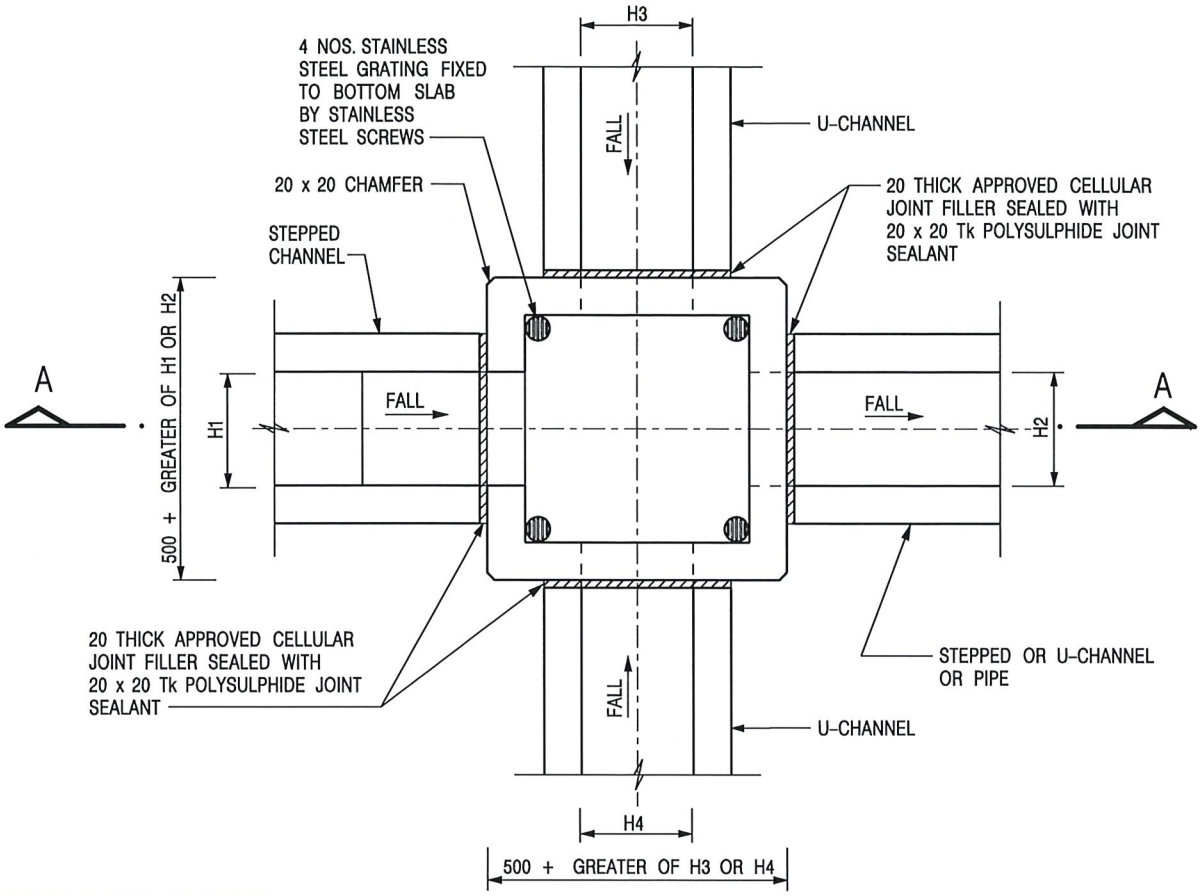
STANDARD CATCHPIT DETAILS

(SHEET 1 OF 5)

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

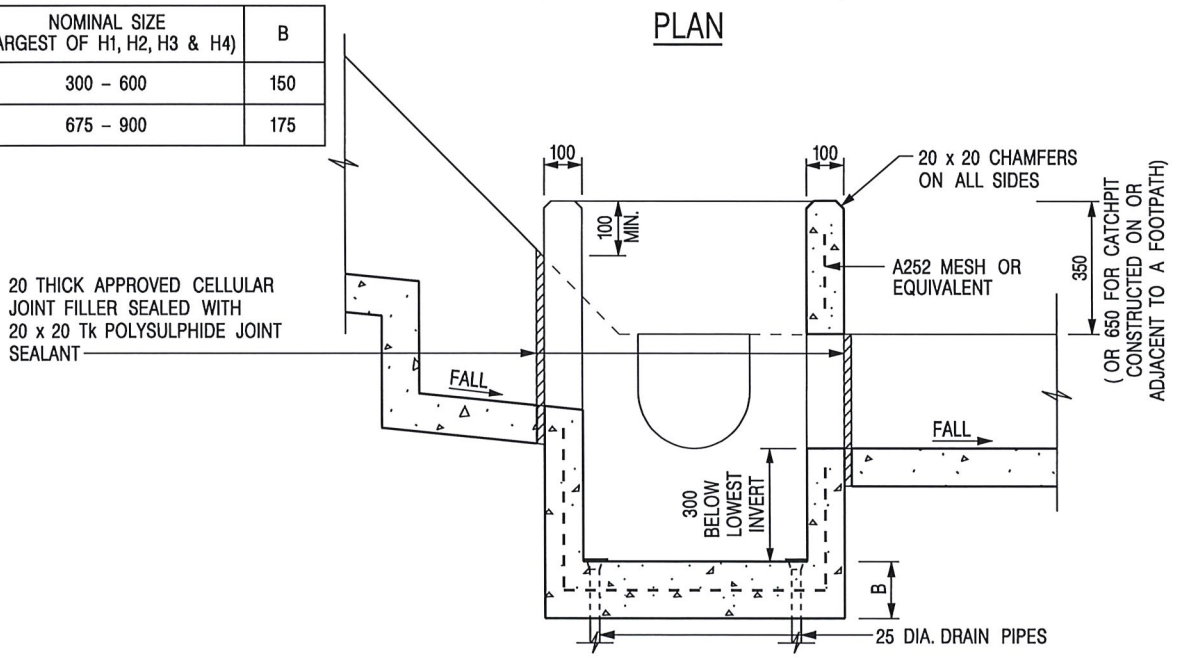
SCALE 1 : 20	DRAWING NO. C2405 /1
DATE JAN 1991	

卓越工程 建設香港 We Engineer Hong Kong's Development



PLAN

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.

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

CATCHPIT WITH TRAP

(SHEET 1 OF 2)

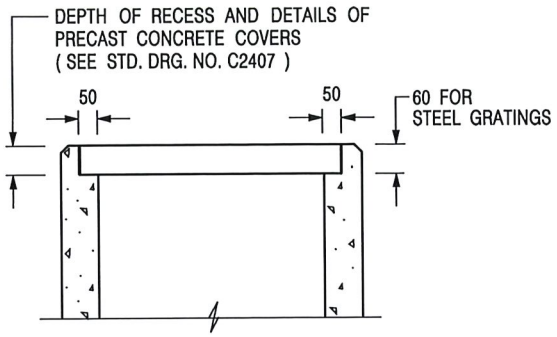
CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 20

DATE JAN 1991

DRAWING NO. C2406 /1

卓越工程 建設香港 We Engineer Hong Kong's Development



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.

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

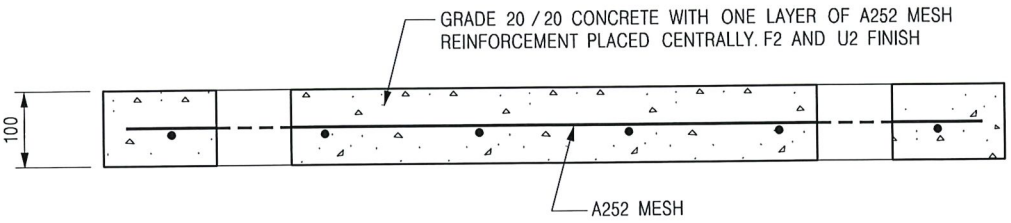
CATCHPIT WITH TRAP (SHEET 2 OF 2)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

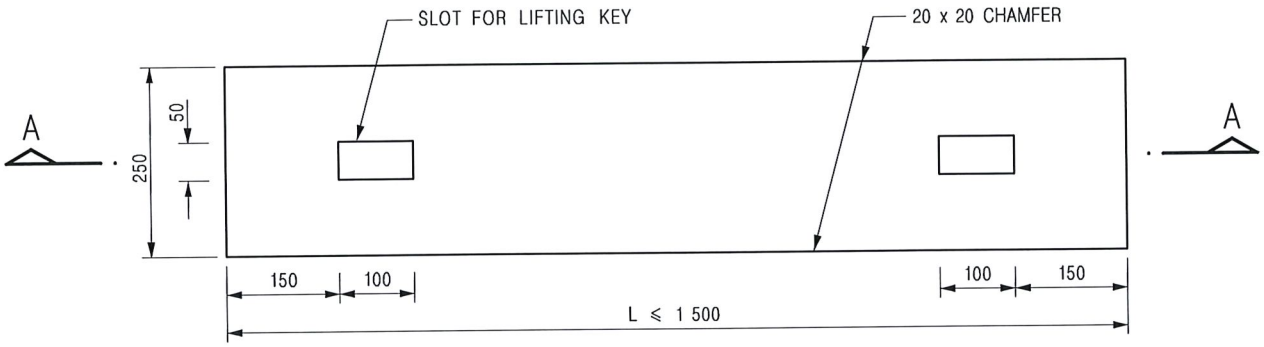
SCALE 1 : 20

DATE JAN 1991

DRAWING NO. C2406 /2A

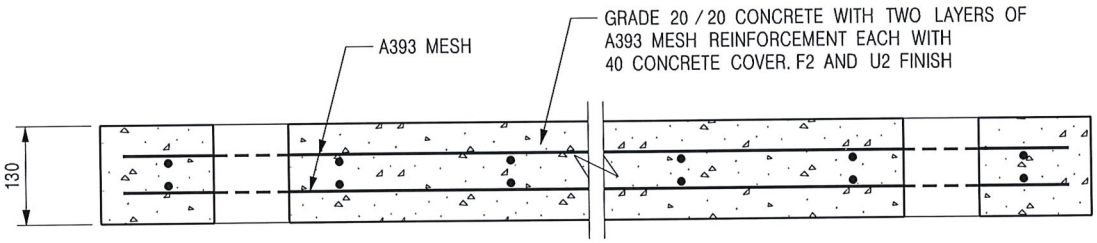


SECTION A - A

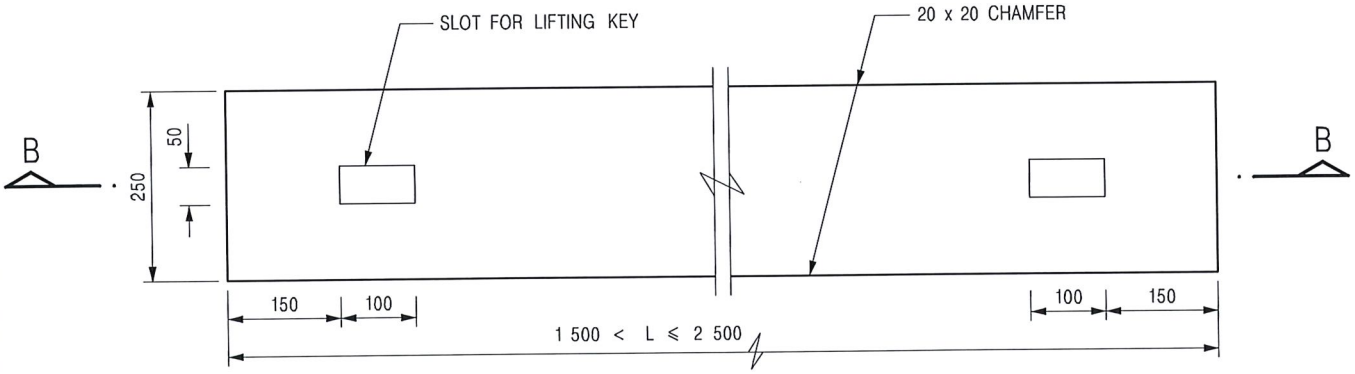


PLAN

TYPE 1 - FOR SPAN UP TO 1.5 m



SECTION B - B



PLAN

TYPE 2 - FOR SPANS 1.5 m TO 2.5 m

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. ALL EXTERNAL EDGES OF THE COVERS SHALL BE 20mm CHAMFERED.

REF.	REVISION	SIGNATURE	DATE
B	NAME OF DEPARTMENT AMENDED.	Original Signed	01.2005
A	GENERAL REVISION	Original Signed	12.2002

PRECAST CONCRETE COVERS FOR CATCHPIT AND SAND TRAP

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

SCALE 1 : 10

DATE JAN 1991

DRAWING NO. C2407B

興土木 利民生 齊拓展 創明天

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