水 務 署
Water Supplies Department
九 龍 灣 辦 事 處
Kowloon Bay Office
九龍 九龍灣 大業里十一號
11 Tai Yip Lane, Kowloon Bay, Kowloon
電 話 *Telephone* 2152 5626
圖文傳真 *Facsimile* 2354 5737

By Post and Fax (2602 3662)
(2597 8399)

檔 號 (2) in WSD/NTE 3018/58/2020 Pt.1 T/J 1

9 February 2021

CASTCO TESTING CENTRE LIMITED
6/F., Techno Center,
33 On Kui Street,
On Lok Tsuen,
Fanling, N.T.

Dear Sirs/Madams,

Contract No. SPW 18/2020 – Utility Survey
for Upgrading of Tai Po Sewage Treatment Works - Investigation
Request for Underground Utility Record Drawing

I refer to your above quoted letter of ref.:Y20-US-P-301-020-L-02x dated 19 January 2021.

Please advise that existing water mains in the vicinity and falling within the lot may be affected that you shall pay due care to protect them from any damage whenever appropriate. If the diversion of water main is required, you shall bear the cost of the works.

We return herewith one copy of our plan(s) in CD-ROM with the existing water mains and waterworks installations indicated. You are requested to note that the alignment of the water mains shown on the plan(s) returned is indicative only. Although it is our intention to provide you with the most up-to-date information, we cannot guarantee that the information returned to you is exhaustive. In particular, we cannot guarantee that all our water mains, especially those laid only recently, have been incorporated in our central records and hence on the plan(s) returned. A copy of "Mains Records Sign Conventions and Designations" (SK3988B) is also attached for your reference.

The exact lines and levels of the water mains as well as the materials that the water mains are made of should be established by hand dug trial holes on site if they are of significance to your works. You should instruct your consultants and/or contractors (as the case may be) to take all necessary measures during the design and/or construction stages (as the case may be) to avoid causing damage to the water mains and waterworks installations, for which you will be held responsible. Please find attached a copy of "Conditions of Working in the Vicinity of Waterworks Installations" and "Flow Chart on Procedures for Safe Working near Water Mains" for your reference.

Please note that existing asbestos cement (AC) or unknown water pipes are identified in the vicinity of your project/works area. It is very likely that the unknown water pipes are AC water pipes. You are strongly advised to make special provisions including monitoring measures as necessary to protect these water pipes that are vulnerable to damage. Should diversion/replacement of AC or unknown water pipes be found necessary to be carried out in conjunction with your proposed works after detailed investigations or studies, you should instruct your consultants and/or contractors to take all necessary measures during design and/or construction stages to comply with all prevailing statutory requirements for the safe handling, removal, transportation and disposal of AC pipes.

You should also comply with the requirements as given in the attached "Conditions of Working within Gathering Grounds". No works are allowed to commence within Water Gathering Ground without WSD's prior approval.

To ensure that existing water mains are protected, you are requested to advise your contractor/site staff to follow the procedures and practices described in the "Guidelines for Excavation near Water Mains" and "How to Prevent Damage to Water Mains" which are posted on WSD Internet Homepage and take all necessary steps to prevent damage to our water mains/waterworks installations. In particular, you should notify our Inspector/(Inspection) Mr. LEE Kam Wing at Tel. No. 2152 5763, at least 7 working days before any excavation works in the vicinity of water mains.

If you require further information or assistance during office hours, please contact our Inspector/(Inspection) Mr. LEE Kam Wing at Tel. No. 2152 5763. For emergency cases outside office hours in which consultation with WSD is required, please contact our Customer Telephone Enquiry Centre 24-hour hot-line (2824 5000).

Yours faithfully,

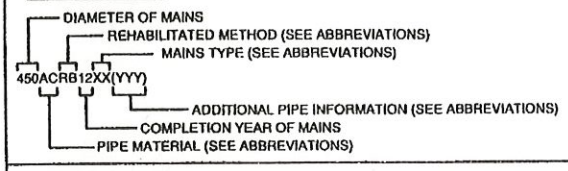
(Antonia D. C. WONG)
for Chief Engineer/New Territories East
Water Supplies Department

Encl.

SIGN CONVENTIONS

TYPE	LEGEND
MAINS	
FRESH / SALT WATER MAINS	
RAW / UNTREATED WATER MAINS / CONDUIT	
WASHOUT PIPE / OVERFLOW PIPE	
SLUDGE PIPE	
TREATED EFFLUENT MAINS	
WATER MAINS REQUIRE REGULAR FLUSHING	
PIPE LAID IN SLEEVE	
PIPE LAID IN TROUGH	
PIPE LAID INSIDE TUNNEL	
BEING LAID MAINS	
WATER TUNNEL	
PROPOSED MAINS	
PRIVATE MAINS (SEE NOTE 2)	
MAINS OF OTHER DEPARTMENTS (SEE NOTE 3)	
FIRE SERVICE	
PEDESTAL FIRE HYDRANT	PH
GROUND FIRE HYDRANT	GH
HEAVY DRAW-OFF FIRE HYDRANT	HD
SWAN NECK FIRE HYDRANT	SN
TWIN OUTLET SWAN NECK FIRE HYDRANT	SN
VALVE	
VALVE (SEE ABBREVIATIONS)	
NORMALLY CLOSED VALVE	
FLAP VALVE	FV
FLOW REGULATING VALVE	FRV
NON RETURN / REFLUX VALVE	NRV
PRESSURE CONTROL / REDUCING / RELIEF VALVE	PRV
AIR VALVE	
AIR VALVE (SEE ABBREVIATIONS)	
AIR VALVE ON INSPECTION TEE (SEE ABBREVIATIONS)	
METER	
METER (SEE ABBREVIATIONS)	
VENTURI TUBE	VEN
CRITICAL PRESSURE POINT	PP
OTHERS	
CHANGE IN PIPE	
BLANK FLANGE / END CAP	
EXTENTS SHOWING FEATURES OF WATER MAINS	
INSPECTION TEE (SEE ABBREVIATIONS)	
PIPES CONNECTED	
STANDPIPE	STP
STRAINER	STR
CATHODIC PROTECTION INSTALLATION (SEE ABBREVIATIONS)	
LEAK NOISE CORRELATION POINT	LNC
LEAKAGE COLLECTION CHAMBER	LCC
FLOW MEASUREMENT CHAMBER	FMC
INSPECTION MANHOLE	IMH
MULTI - PURPOSE INSERTION CHAMBER	MIC
ESSENTIAL VALVE REFERENCE NUMBER (ALPHABET SEE ABBREVIATIONS)	C 888888
PIPES CROSS OVER	

DESIGNATIONS



NOTES

1. WSD MAINS INCLUDE:
   (a) MAINS LAID AND MAINTAINED BY WSD.
   (b) MAINS LAID BY OTHER DEPARTMENTS OR PRIVATE PARTIES BUT MAINTAINED BY WSD AT WSD'S COST.
2. PRIVATE MAINS INCLUDE MAINS IN PRIVATE ROADS, PRIVATE HOUSING ESTATES, ETC. NOT MAINTAINED BY WSD.
3. MAINS OF OTHER DEPARTMENTS INCLUDE MAINS LAID BY OTHER GOVERNMENT DEPARTMENTS NOT MAINTAINED BY WSD.

ABBREVIATIONS

PIPE MATERIAL

AC	ASBESTOS CEMENT
CI	CAST IRON
CONC	CONCRETE
COPP	COPPER ALLOY
DI	DUCTILE IRON
GI	GALVANIZED IRON
GIL	LINED GALVANIZED IRON
GMS	GALVANIZED MILD STEEL
GRP	GLASS FIBRE REINFORCED PLASTIC
MDPE	MEDIUM DENSITY POLYETHYLENE
MS	MILD STEEL
PE	POLYETHYLENE
S	STEEL
SS	STAINLESS STEEL
UPVC	UNPLASTICISED POLYVINYL CHLORIDE

REHABILITATION METHOD

RA	CURED IN PLACE PIPE
RB	CLOSED FIT (FOLD AND FORM SYSTEM)
RD	SLIP LINING / SLIP INSERTION
RE	CLOSE FIT (SWAGELINING SYSTEM)
RF	FIBRE REINFORCED PLASTIC SYSTEM
RG	INTERNAL LINING REPAIRED
RH	EXTERNAL COATING REPAIRED
RK	COMBINATION OF INTERNAL LINING REPAIRED AND EXTERNAL COATING REPAIRED
RL	PIPE BURSTING
RM	EXTERNAL FIBRE REINFORCED PLASTIC (FRP) SYSTEM
RN	JOINT SEALANT WORKS
RP	PRIMUS LINE
RS	SPRAY POLYURETHANE SYSTEM

MAINS TYPE

F	FIRE SERVICE MAINS
OF	OVERFLOW PIPE
WO	WASHOUT PIPE

INSPECTION TEE

IT	INSPECTION TEE
MIT	MULTI - PURPOSE INSPECTION TEE

ADDITIONAL PIPE INFORMATION

(400)	OUTSIDE DIAMETER OF THE INSERTED PE PIPE FOR SPECIFIED REHABILITATED MAINS
(CPS10)	CATHODIC PROTECTION SYSTEM NO. 10
(DRY)	DRY MAINS
(E)	MAINS LAID UNDER ENTRUSTMENT WORKS
(EXPOSED)	EXPOSED PIPE
(IRRIGATION)	IRRIGATION PIPE
(L)	MAINS WITH LEAKAGE COLLECTION SYSTEM
(PC)	PENDING COMMISSIONED MAINS
(SCM100)	SHALLOW COVERED MAINS NO. 100
(SUBMARINE)	SUBMARINE PIPE
(TE)	TREATED EFFLUENT MAINS
(TMF)	TEMPORARY MAINS FOR FLUSHING
(W20163)	DRAWING REFERENCE
(WSD 437/....)	WSD FILE REFERENCE

METER

EMFM	ELECTROMAGNETIC FLOWMETER
FM	FLOWMETER
WDM	WASTE DETECTION METER
DM	DISTRICT METER

VALVE

BV	BUTTERFLY VALVE
GV	GATE VALVE
SC	STOP COCK
SV	SLUICE VALVE
V	GENERIC VALVE
WOV	WASHOUT VALVE

AIR VALVE

AV	GENERIC AIR VALVE
SAV	SINGLE AIR VALVE
DAV	DOUBLE AIR VALVE
MDAV	MULTI - PURPOSE DOUBLE AIR VALVE
ATV	GENERIC AIR VALVE ON INSPECTION TEE
STV	SINGLE AIR VALVE ON INSPECTION TEE
DTV	DOUBLE AIR VALVE ON INSPECTION TEE

ALPHABET OF ESSENTIAL VALVE REFERENCE NUMBER

FRESH WATER NETWORK SYSTEM

B	CONTROL VALVES OF DIRECT TEEING OFF TO SUPPLY FROM FRESH WATER TRUNK MAINS
C	CUT- LINE VALVES
D	ALL OTHER ESSENTIAL VALVES
M	DISTRICT BOUNDARY VALVES FOR DISTRICT METERING AREAS AND PRESSURE MANAGEMENT AREAS
S	SCOUR VALVES
T	TRUNK MAIN VALVES INCLUDING THOSE AT TEES
V	VALVES UNDER CHINA WATER SCHEME, HIGH ISLAND WATER SCHEME AND PLOVER COVE WATER SCHEME

SALT WATER NETWORK SYSTEM

X	ESSENTIAL VALVES

CATHODIC PROTECTION INSTALLATION

TS1	TEST STATION NO.1
HA2(1)	HORIZONTAL ANODE NO. 2 (1 GROUP OF ANODE)
VA3(2)	VERTICAL ANODE NO. 3 (2 GROUPS OF ANODE)

編號 no.	日期 date	摘 要 description	簽署 initial
C	6/12/19	GENERAL REVISION	SE/PGIS
B	11/02/11	GENERAL REVISION	(Signed) L.H. LAM SE/Dev(SD)
A	16/06/05	GENERAL REVISION	(Signed) K.T. CHAN SE/AM
修訂 REVISION			

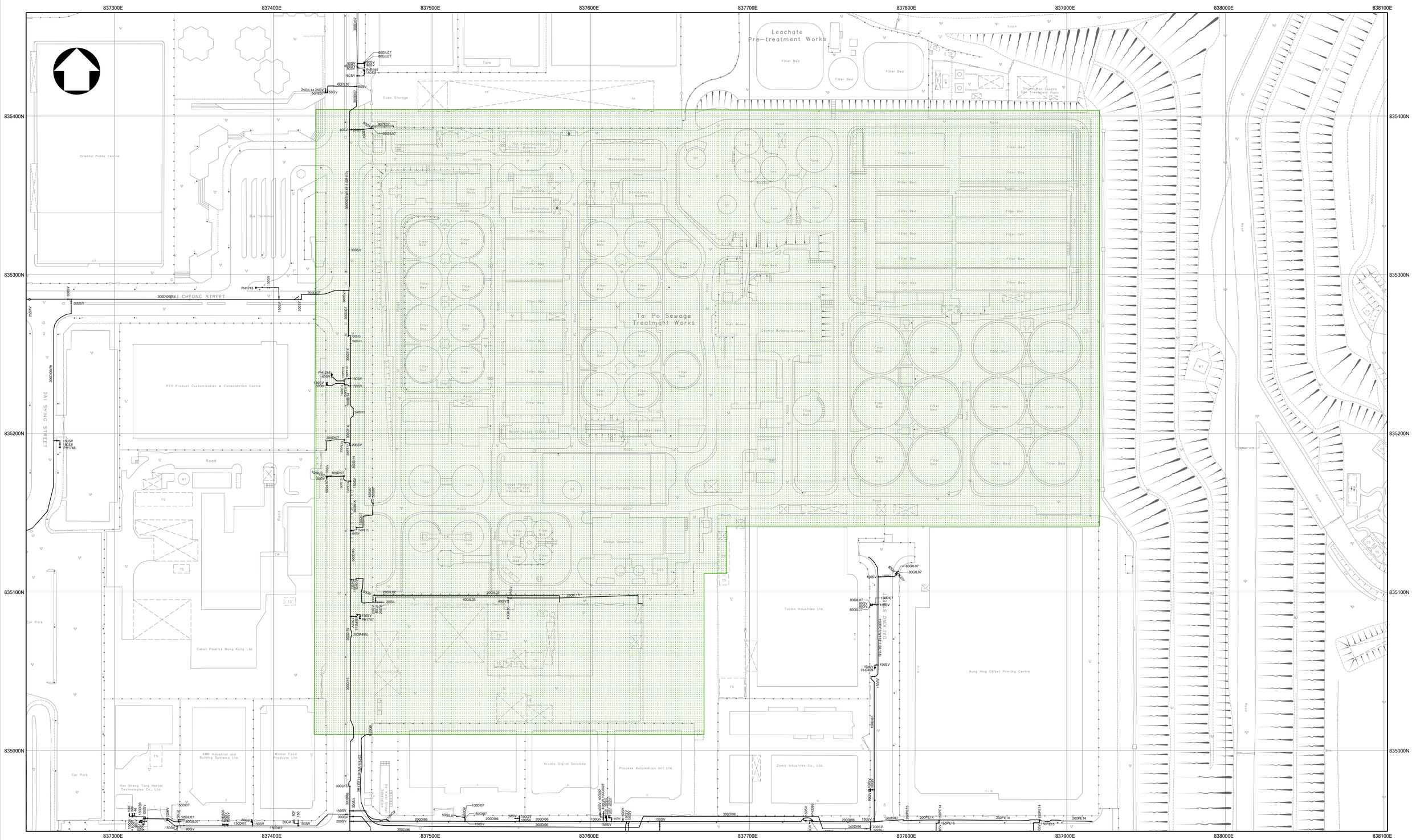
圖則名稱 drawing title: **MAINS RECORDS SIGN CONVENTIONS AND DESIGNATIONS**	簽署 initial	日期 date	圖則編號 drawing no.: **SK 3988C**
	繪製 drawn: N.I. CHEUNG	03/03/98	比例 scale: NOT APPLICABLE
	核對 checked		
	加簽 endorsed		
	核准 approved (Signed) C.C. CHAN CE/RA	12/03/98	

水 務 署
Water Supplies Department

A4 210 X 297

CAD REF. SK3988C.DWG
PLOTTING SCALE 1 : 1

A3



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM.
3. INFORMATION ON ALIGNMENT OF MAINS IS OF INDICATIVE VALUE ONLY. WHERE POSITIONAL ACCURACY MAY BE OF IMPORTANCE, DETAILS SHOULD BE SITE CHECKED.
4. FOR MAINS RECORDS SIGN CONVENTIONS AND DESIGNATIONS SEE SKETCH NO. 3988.
5. NO PROPOSED WATER MAINS IN THE VICINITY OF THE SITE.
6. NO EXISTING WSD CABLE IN THE VICINITY OF THE SITE.
7. NO PROPOSED WSD CABLE IN THE VICINITY OF THE SITE.
8. THE SITE IS NOT WITHIN WSD GATHERING GROUNDS.
9. NO WSD LAND ALLOCATION / WWR WITHIN THE SITE AREA.
10. NO WSD SLOPES ARE AFFECTED IN THE VICINITY OF THE SITE.

SUBJECT SITE

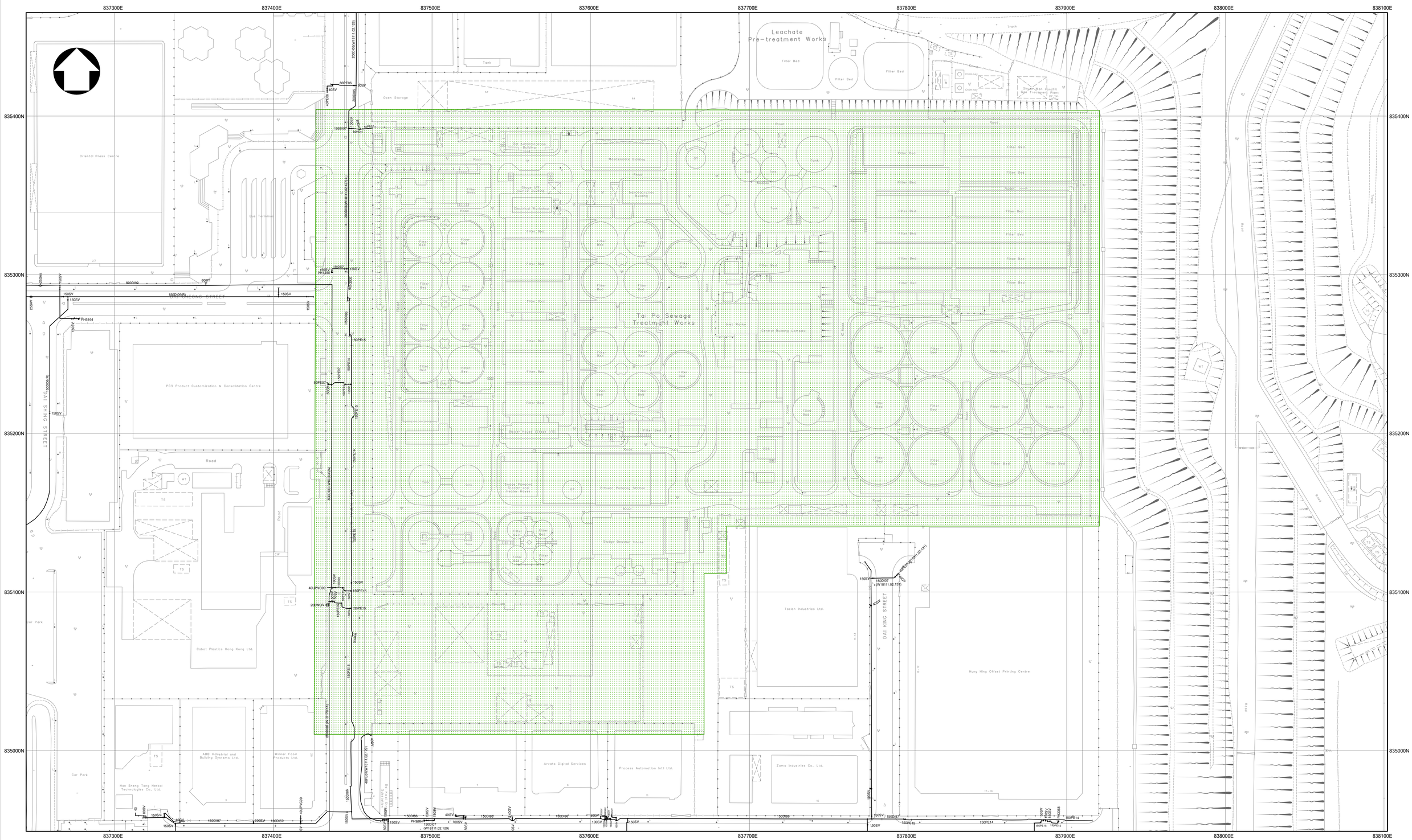
PART COPY OF FRESH WATER MAINS RECORD PLAN(S)

W67880/7-NE-1A, 1C, 7-NW-5B & 5D

REF. CODE: 06W21M	SHEET 1 OF 1	SCALE 1:1100

水 務 署
Water Supplies Department

A3



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
2. ALL LEVELS ARE IN METRES ABOVE PRINCIPAL DATUM.
3. INFORMATION ON ALIGNMENT OF MAINS IS OF INDICATIVE VALUE ONLY. WHERE POSITIONAL ACCURACY MAY BE OF IMPORTANCE, DETAILS SHOULD BE SITE CHECKED.
4. FOR MAINS RECORDS SIGN CONVENTIONS AND DESIGNATIONS SEE SKETCH NO. 3988.
5. NO PROPOSED WATER MAINS IN THE VICINITY OF THE SITE.
6. NO EXISTING WSD CABLE IN THE VICINITY OF THE SITE.
7. NO PROPOSED WSD CABLE IN THE VICINITY OF THE SITE.
8. THE SITE IS NOT WITHIN WSD GATHERING GROUNDS.
9. NO WSD LAND ALLOCATION / WWR WITHIN THE SITE AREA.
10. NO WSD SLOPES ARE AFFECTED IN THE VICINITY OF THE SITE.

SUBJECT SITE

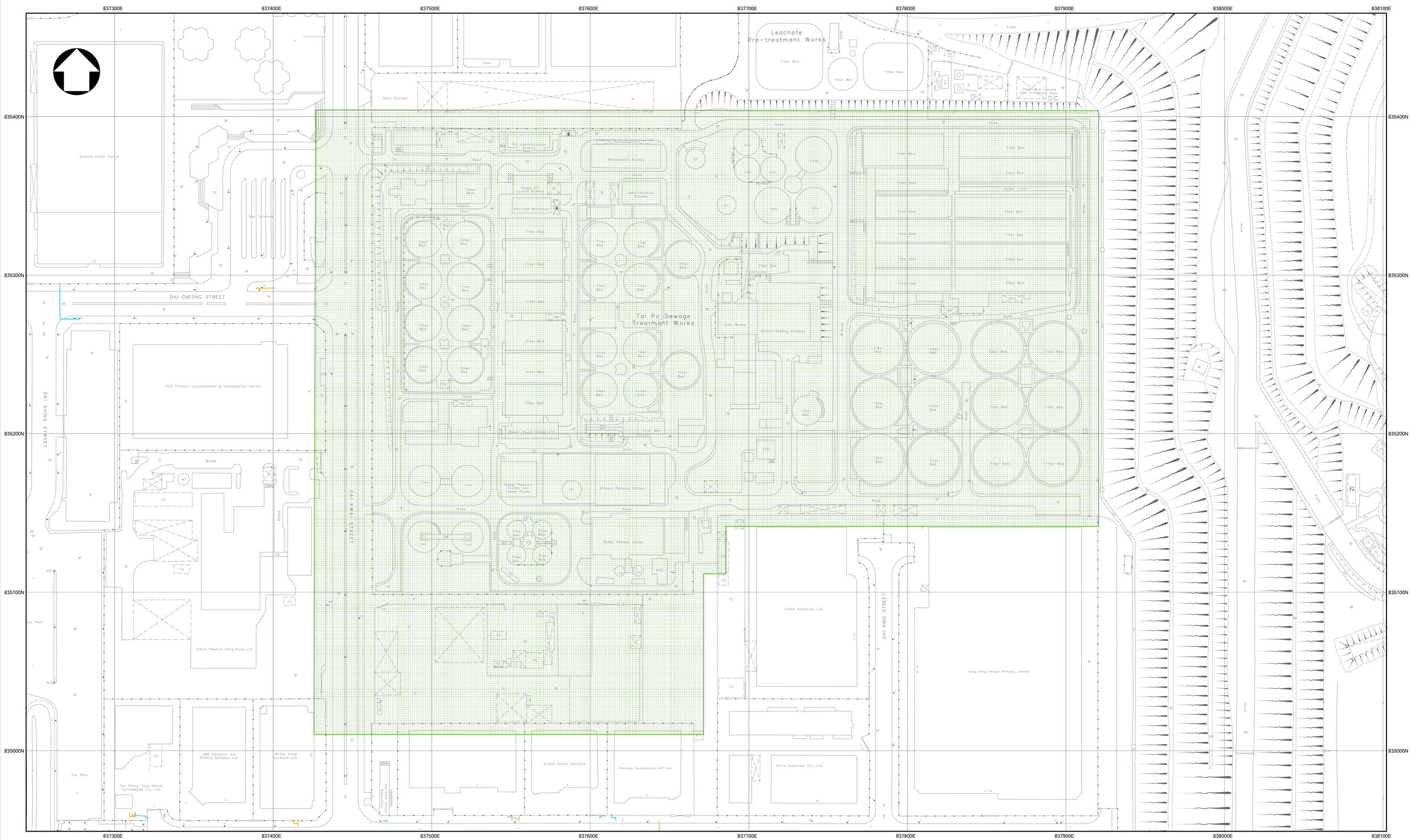
PART COPY OF SALT WATER MAINS RECORD PLAN(S)

W67881/7-NE-1A, 1C, 7-NW-5B & 5D

REF. CODE: 06W21M	SHEET 1 OF 1	SCALE 1:1100

水 務 署
Water Supplies Department

A3



LEGEND :

1. FRESH WATER MAINS WITH AC MATERIAL
2. FRESH WATER MAINS WITH UNKNOWN MATERIAL
3. SALT WATER MAINS WITH AC MATERIAL
4. SALT WATER MAINS WITH UNKNOWN MATERIAL

SUPPLEMENTARY INFORMATION OF
ASBESTOS CEMENT (AC) OR UNKNOWN WATER MAINS

IMPORTANT: Please note that existing asbestos cement (AC) or unknown water pipes are identified in the vicinity of your project/works area. It is very likely that the unknown water pipes are AC water pipes. You are strongly advised to make special provisions including monitoring measures as necessary to protect these water pipes that are vulnerable to damage. Should diversion/replacement of AC or unknown water pipes be found necessary to be carried out in conjunction with your proposed works after detailed investigations or studies, you should instruct your consultants and/or contractors (as the case may be) to take all necessary measures during design and/or construction stages (as the case may be) to comply with all prevailing statutory requirements for the safe handling, removal, transportation and disposal of AC pipes.

SUBJECT SITE

PART COPY OF SURVEY SHEET NO(S).

7-NE-1A, 1C, 7-NW-5B & 5D

SHEET 1 OF 1 | SCALE 1:1100

水 務 署
Water Supplies Department

香港中華煤氣有限公司
The Hong Kong and China Gas Company Limited

環保生活每一天
Go Green Every Day

26 January 2021

Your Ref.: Y20-US-P-301-020-L-02x
Our Ref.: UNE2021/00174/N

Castco Testing Centre Ltd
6/F, Techno Centre
33 On Kui Street
On Lok Tsuen
Fanling, N.T.

Attn.: Ms. Pinky Lee (US Department)

In view of safety, HKCG provides FREE service to assist the road opening parties to locate the approximate gas pipe alignment on site, Please call **29631811** before work starts.

Dear Sirs

Re: Contract No. SPW 18/2020 Upgrading of Tai Po Sewage Treatment Works

We received your letter of 19 January 2021 requesting drawings on the location of Towngas pipelines. We are attaching the drawings for the location of existing/proposed pipelines that you requested. These drawings are only approximate. The pipes may be located in different positions and depths due to continual road development, system alterations and underground obstructions. Therefore, the exact location may be altered from point to point. There is the possibility that some gas pipes particularly those laid long time ago or laid by other Registered Gas Contractors may not appear in our records. In the case of some unknown pipes being exposed during your construction work, please contact us immediately. In the case the construction work is to be carried out 6 months after the date of drawing, you are required to send us another request for obtaining an updated drawing.

We suggest that you do not work too close to the pipes as any damage to them could create a hazardous accident. You should be very careful when excavating the area. You should locate the exact position and depth of the pipes by making a series of hand-dug trial holes. Heavy machinery such as drills or mechanical excavators cannot be used to do this. If your company damages our pipelines, you will be responsible for all resultant costs.

We would also like to remind you not to disturb any part of Towngas pipeline or their associated properties and not to temporarily or permanently encase part or all of our gas pipes in any form of concrete structures. Please provide steel gas pipes a clearance of 600mm and other gas pipes a clearance of 300mm. This space is necessary for future maintenance.

For enquiry of information on this letter or pipe location drawing, please contact Mr. Anthony Lo on 29631321.
Transmission Operation Department 17/F, 363 Java Road, North Point, Hong Kong Tel: 29631166 Fax: 31060527 Email: une@towngas.com

If your work involves construction of new manholes or performing operation in existing manholes, we recommend sealing off all the duct openings in new/existing manholes, to avoid accumulation of hazardous gas in manholes, which might create a dangerous explosive environment.

Should your proposed works involving any kind of trenchless technology, you should approach HKCG to discuss the protective and safety precautionary measures before your work commences, as well as the monitoring procedures to be implemented throughout the entire construction period in order to ensure the integrity of existing gas facilities will not be affected.

If you want to divert gas pipes, we must have at least two months and six months notice respectively for distribution and transmission networks before commencing our planning works. Your company will be responsible for the full cost of any diversion. A written agreement will be required before we begin any diversion.

SAFETY:

1. If a gas pipe is damaged or a leak is suspected, phone the Emergency Services Hotline, 28806999, immediately. Also, keep all ignition sources away from the site.
2. Cigarette smoking is prohibited when working near the pipelines.
3. In case of a leak, stop work, evacuate all employees and the public from the area.
4. Construction activities require naked fire must not be applied within 3 meters proximity of exposed gas pipes without prior approval under proper management procedures, such as permit to work, etc.

Please contact Mr Au Chi Yu on 2963 1811 for the matters related to existing pipeline or to arrange for a joint site inspection regarding the pipe location. Further, you should notify us 2 days before the works begin on site. For enquiry of proposed pipeline, if any, or availability of gas supply, please contact Mr Y L Lau on 2916 0930.

You may provide us your E-mail address so that we can send the drawings to you by E-mail. If you want further information or the drawings in different scale, you can write to us by quoting the reference of this letter.

Yours faithfully

pp Eric E T Tsang
Senior System Development Manager

ET/une

Encl. Get All Safe Leaflet
General Requirements For Construction Work In The Vicinity Of Gas Main
General Requirements of Construction Works Adjacent to the Existing Gas Station (GS)
Avoiding Danger from Underground Gas Pipes and Electricity Cables Leaflet

A3

圖則顯示的管道位置只作參考之用。其實際位置和深度仍須以人手開挖探孔確定。在煤氣管道設施附近施工期間，必須要加倍小心。

檢查日期： Jan 27 2021

輸氣操作部

時間：10:00:36

比例：1 : 1200

煤氣 Towngas
香港中華煤氣有限公司
The Hong Kong and China Gas Company Limited

xy (837689,835210) UNE2021/00174/N

CLP 中電

RECEIVED
24 SEP 2021

中華電力有限公司
CLP Power Hong Kong Limited

北區
North Region

香港新界上水嘉富坊 16 號
16 Ka Fu Close, Sheung Shui
New Territories, Hong Kong

電話 Tel (852) 2678 2156
傳真 Fax (852) 2678 2180
網址 Website www.clpgroup.com

14 Sep, 2021

Binnies Hong Kong Limited
43/F
AIA Kowloon Tower
100 How Ming Street
Kwun Tong
Kowloon

Attention : Christina Ko

Our ref.: N-2021-1371
Your ref.: 405045-0225

ACTION REQUIRED BY	CKH	AS	
FILE	40504		
REPLY	BY	DATE	
TO SEE			

Dear Sir/Madam,

Agreement No. CE 50/2019 (DS)
Upgrading of Tai Po Sewage Treatment Works

We refer to your letter dated 19 Aug, 2021 and enclose herewith our record sheet(s) showing the present location(s) of this Company's underground cables and / or overhead lines. The alignments of the cables and overhead lines could be altered in the future to meet the requirements of our power system.

You will find certain measurements, dimensions and distances marked on these record sheets. Although these figures are accurate to the best of our knowledge, information and belief, site conditions may have been altered since the measurements were taken. As such, CLP Power's record sheets are sent to you on the express condition that the locations of the underground cables and / or overhead lines and all measurements are our best approximation only, and should not be taken as accurate.

We request you, for the sake of safety, not to disturb any part of our equipment and not to construct manholes over and on top of our cable joints. No work or excavation shall be done in close proximity to any of our equipment without giving prior notice to us. We shall hold you responsible for any damage caused to our equipment.

You are advised to contact our Operations Engineer - Sheung Shui, YUEN TAK CHAU on telephone number 2678 2020 as soon as you are ready to commence work. To facilitate site co-ordination, please provide us with the name(s) of the responsible person(s), contact telephone number and tentative work commencement date.

2/.....

Please be informed that the record of public lighting within your work site should be referred to relevant Lighting Division for details.

Yours faithfully,

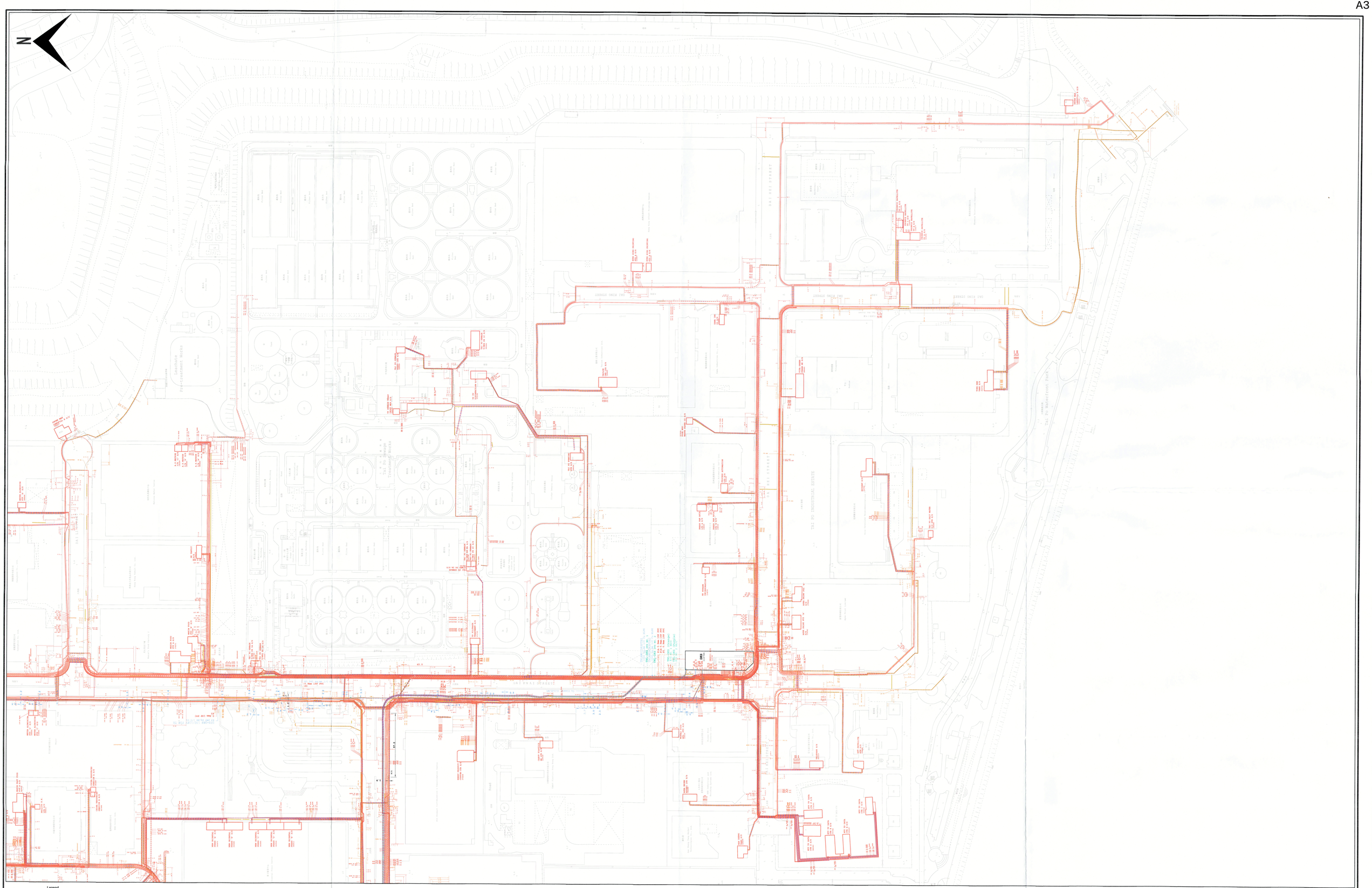
POON CHI FAI
for Senior Planning & Design Manager
North Region

cc. TD - NG SHU CHIM

Encl.: 1. Guidelines For Contractors Working In The Vicinity Of Electricity Cables And Overhead Lines
2. EMSD Reference Document No. NU/26/01
3. Drawing Reference No. : N-2021-1371-001

P.S.You are advised to note a Video For Contractors Working In The Vicinity Of Electricity Cables And Overhead Lines via a link of (http://clp.to/contractor-safety)

A3



Legend

- 400kV CABLE/SUBMARINE CABLE/OHL
- THROUGH DUCT 400kV CABLE
- AS BUILT 400kV CABLE
- 400kV OVERHEAD LINE TOWER
- 132kV CABLE/SUBMARINE CABLE/OHL
- THROUGH DUCT 132kV CABLE
- AS BUILT 132kV CABLE
- 132kV OVERHEAD LINE TOWER
- 132kV TERMINAL OHL POLE
- 132kV DOUBLE OHL POLE
- 132kV SINGLE OHL POLE
- ABANDONED TRANSMISSION CABLE
- 33kV CABLE
- THROUGH DUCT 33kV CABLE
- AS BUILT 33kV CABLE
- 33kV SUBMARINE CABLE
- 33kV OVERHEAD LINE
- 33kV STEEL POLE
- 33kV WOOD POLE
- 11kV CABLE
- THROUGH DUCT 11kV CABLE
- AS BUILT / ABANDONED 11kV CABLE
- SUBMARINE 11kV CABLE
- 11kV OVERHEAD LINE
- 11kV STEEL POLE
- 11kV WOOD POLE
- POLE MOUNT TRANSFORMER
- L.V. CABLE
- THROUGH DUCT L.V. CABLE
- AS BUILT / ABANDONED L.V. CABLE
- L.V. OVERHEAD LINE (1 PHASE)
- L.V. OVERHEAD LINE (3 PHASE)
- L.V. OVERHEAD LINE (ABC)
- L.V. OVERHEAD LINE (PVC)
- L.V. OVERHEAD LINE (Wall Mounted)
- L.V. STEEL POLE
- L.V. WOOD POLE
- L.V. PILLAR
- PILOT CABLE
- THROUGH DUCT PILOT CABLE
- AS BUILT / ABANDONED PILOT CABLE
- FIBRE OPTIC
- THROUGH DUCT FIBRE OPTIC
- AS BUILT FIBRE OPTIC
- TEMPERATURE SENSING CABLE (DTS)
- AERIAL EARTH WIRE (AEW)
- OVERHEAD LINE FIBRE OPTIC
- OVERHEAD LINE FIBRE OPTIC
- SHALLOW COVER INSTALLATION
- CLP 400/132/66kV SUBSTATION
- CLP 33kV SUBSTATION
- CLP 11kV SUBSTATION
- 400kV CABLE JOINT BAY
- 132kV CABLE JOINT BAY
- DUCT LINE

CLP 中電

ALL LOCATIONS, MEASUREMENTS, DIMENSIONS AND DISTANCES ARE FOR CLP POWER INTERNAL USE ONLY. THEY SHOULD NOT BE SCALED AND ASSUMED ACCURATE. CLP POWER ACCEPTS NO RESPONSIBILITY IN THE EVENT OF ANY INACCURACY. EXTREME CARE MUST BE EXERCISED WHEN WORKING IN CLOSE PROXIMITY TO OUR EQUIPMENT. PLEASE CONTACT OUR REGIONAL OFFICE AS SOON AS YOU ARE READY TO COMMENCE WORK.

CLP Facility Records Map

07NW05B	07NE06A
07NW10B	07NE01A

Scale: (1:1000)

Printed On: 07-09-2021

Reference no. : N-2021-1371-001

Drainage Services Department
Mainland North Division
11/F, Kowloon Government Offices,
405 Nathan Road, Kowloon

渠務署
新界北渠務部
九龍彌敦道 405 號
九龍政府合署 11 樓

本署檔號 Our Ref : (00MNLT) in DSD MN 12/TP/16/0
來函檔號 Your Ref : Y20-US-P-301-020-L-02x
電　　話 Telephone : (852) 2300 1364
圖文傳真 Fax : (852) 2770 4761

By Post

4 March 2021

CASTCO Testing Centre Limited
6/F, Techno Centre,
33 On Kui Street,
Fanling, N.T.
(Attn.: Pinky LEE)

Dear Sir/Madam,

Contract No. SPW 18/2020 – Utility Survey
for Upgrading of Tai Po Sewage Treatment Works - Investigation
Re: Request for Underground Utility Record Drawing

I refer to your letter dated 19 January 2021 requesting drainage information.

I enclose herewith a CD-ROM containing your requested drainage information in pdf format. Please note that you are requested to arrange for return of a brand new CD-ROM disk. For those proposed sites not covered by the CD-ROM, there is no drainage record kept in this office.

In future, you can try obtaining drainage record information online through the GeoInfo Map services of the Lands Department (https://www.map.gov.hk/gm/?lg=en). A Quick Reference Guide on the operation of the system is available in DSD homepage at link http://www.dsd.gov.hk/EN/Service_Enquiries/Drainage_Record_Plans/index.html.

Please be reminded that it is the responsibility of the Utilities Undertaker/Developer/Project Office/Authorized Person/Consultant/Contractor (collectively referred to as the "Responsible Party") to identify/locate the existing public drains/sewers to which drainage connections from their site are to be proposed or in the vicinity of their trench opening/site works to be commenced. The Responsible Party shall note that the information shown on the record plans/GeoInfo Map is subject to verification on site and no guarantee can be given that this is a complete record. The Responsible Party shall verify the existence of any drains/sewers/utilities and also their exact locations, levels and alignments on site in order to ascertain the positions and levels of the proposed manholes and associated connection works, and their trench opening/site works shall not be in conflict with the existing drains/sewers/utilities. The Responsible Party shall also verify that the existing drains/sewers, to which connections are proposed, are in normal working conditions and capable for taking the discharge from the site. The Responsible Party shall also note that there may be piling foundation underneath any existing culvert but not shown on the record plans for brevity, and shall refer to the relevant as-built drawings on details of the pile foundation and carry out any necessary sub-surface explorations to verify the actual site conditions.

.../P.2

Whenever there are excavation/site works in the vicinity of existing public drains/sewers, the Responsible Party shall:

(i) ensure that no construction debris, silt and sediments, or cementitious materials shall be discharged to or deposited inside the drains/sewers from the site. You shall monitor the internal conditions of the public drains/sewers running adjacent to/within the site with CCTV surveys (or other agreed alternatives) prior to commencement and upon completion of your works. You may contact this Office for agreement of the extent of the CCTV surveys (or other agreed alternatives). Nevertheless, such CCTV surveys (or other agreed alternatives) serve no intention to relieve your liabilities on other drains/sewers that are not included in these surveys. You shall exercise extreme care when working in the vicinity of any existing drainage works in order not to disturb, interfere with or cause damage to them. Any pipe blockage or damage arising from your works shall be reported to this Office immediately, in any case not later than 12 hours, and made good at your cost according to the remedial proposal and programme as agreed by this Office.

(ii) if there is any site discharge in association with the proposed excavation works, submit a proposal for treatment of site discharge and wastewater disposal to the public drains/sewers to this Office. In particular, all interfaces with the public drains/sewers (including any temporary discharge point and/or connection to the drains/sewers) shall be clearly indicated in the proposal. No wastewater disposal to the drains/sewers shall be allowed without prior agreement by this Office.

(iii) at least 14 working days before backfilling the proposed excavation works, submit written notification to this Office, together with the CCTV survey/test record/as-built drawings of the affected drainage works/connections, if any, for our inspection prior to covering up. If the excavation works are of emergency opening nature, at least one-day prior notification shall be given to this Office before the backfilling works.

You are reminded that any person willfully, except with the permission in writing of the Authority, or negligently damages, alters, disconnects or otherwise interferes with any public sewer or drain or any connection therewith, shall be guilty of an offence under Section 6 of Public Health and Municipal Services Ordinance (Cap 132).

Since Tai Po Sewage Treatment Works is within the purview of Sewage Treatment Division 1 (ST1) of DSD, you may wish to seek advice from ST1 of DSD as well.

Yours faithfully,

(Nicholas M. C. BOEDIHARDJO)
for Chief Engineer/Mainland North
Drainage Services Department

WKW/NMC

7-NE-1A-1

7-NW-5B-4

7-NE-1A-4

大埔工業邨
TAI PO INDUSTRIAL ESTATE

高科橋光通信有限公司
tech Optical Communication Company Limited

美亞鋁廠有限公司
Meyer Aluminium Limited

新勵膠管有限公司
Sunnyhose Co. Ltd.

香港益力多乳品有限公司
Hong Kong Yakult Co. Ltd.

屈臣氏蒸餾水中心
Watsons Water Centre

缸 Tank

大利街
DAI LI STREET

渗濾污水預先處理廠
Leachate Pre-treatment Works

濾水池
Filter Bed

泥路
Track

Chimney
煙囪

7-NE-1C-1

Legend :

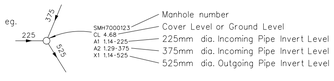
- Storm Water Manhole
- Storm Water Terminal Manhole
- Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- Inspection Opening
- Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully
- Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- Existing Y-Junction (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- Rising Main (Storm/Sewer)
- Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- Vaccum Sewer
- Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- Not Yet Commissioned Pipe (Storm/Sewer)
- Existing U Channel / Stepped Channel (Storm)
- Proposed U Channel / Stepped Channel (Storm)
- Works In Progress U Channel / Stepped Channel (Storm)
- Existing Submarine Outfall with Diffuser
- Proposed Submarine Outfall with Diffuser
- Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- Slope Number
- Slope Boundary
- Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)

(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

Notes :

1. All levels are in metres principle datum.
2. All dimensions shown are in millimetres unless otherwise stated.
3. The information shown on the record drawings are subject to verification on site and no guarantee can be given that this is a complete record.
4. Abbreviations for Channels of width smaller or equal to 1200mm:
   900C - 900mm width Surface Channel
   900SC - 900mm width Stepped Channel
   900UC - 900mm width U Channel
   900DWFC - 900mm width Dry Weather Flow Channel
5. The Incoming Pipes are marked A1, A2, A3, ... counting clockwise from the first Outgoing Pipe X1. Outgoing Pipes are marked X1, X2, X3 ... counting clockwise from North.

eg.



6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
7. Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.

Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

Drainage Record Sheet Number

7-NE-1A-3

Last Updating : 12-12-2019

Map data renewed on November 2019

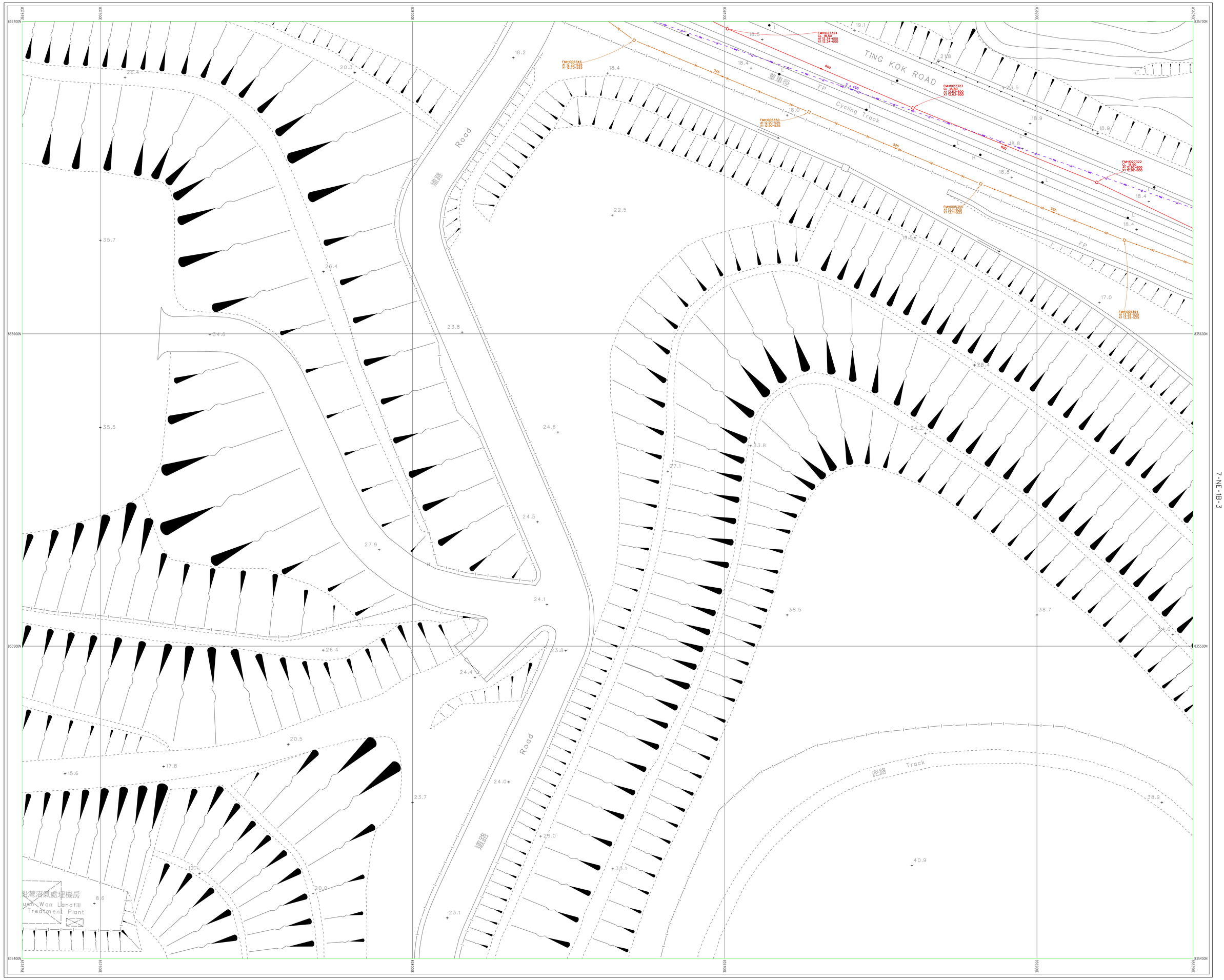
Mainland North Division
Drainage Services Department

A3

7-NE-1A-2

7-NE-1A-3

7-NE-1B-3



7-NE-1C-2

Please note that drainage information is now available in the GeoInfo Map services of the Lands Department (https://www.map.gov.hk/gm/?lg=en). Please refer to the Quick Reference Guide of the system for the operation.

For legend of drainage record plans, please refer to the following URL: (https://www.dsd.gov.hk/EN/Files/Legend_BW.pdf)

Metres 20 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

Drainage Record Sheet Number

7-NE-1A-4

Last Updating : 24-12-2020

Map data renewed on August 2020

Mainland North Division
Drainage Services Department

大埔污水處理廠
Tai Po Sewage Treatment Works

舊行政大樓 Old Administration Building
維修大樓 Maintenance Building
第一二期控制中心大樓 Stage I/II Control Building
行政大樓 Administration Building
電器工場 Electrical Workshop
第一期入口鎗旋原控制室
濾水池 Filter Beds
污水入口處 Inlet Works
中央控制大廈 Central Building Complex
中層電動機房
機油房
回流活性淤泥泵房
第一二期鼓風房 Blower House (Stage I/II)
淤泥泵房及熱水器房 Sludge Pumping Station and Heater House
排放水泵房 Effluent Pumping Station
淤泥脫水機房 Sludge Dewater House
ESS
喉管交滙中心
濾水池 Filter Bed
缸 Tank
GT
TS
EW
ET
渠 Nullah
道路 Road

7-NW-5D-2
7-NE-1C-2
7-NE-1C-3

Legend :

- Storm Water Manhole
- Storm Water Terminal Manhole
- Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- Inspection Opening
- Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully
- Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- Existing Y-Junction (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- Rising Main (Storm/Sewer)
- Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- Vaccum Sewer
- Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- Not Yet Commissioned Pipe (Storm/Sewer)
- Existing U Channel / Stepped Channel (Storm)
- Proposed U Channel / Stepped Channel (Storm)
- Works In Progress U Channel / Stepped Channel (Storm)
- Existing Submarine Outfall with Diffuser
- Proposed Submarine Outfall with Diffuser
- Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- Slope Number
- Slope Boundary
- Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)

(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

Notes :

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2. All dimensions shown are in millimetres unless otherwise stated.
3. The information shown on the record drawings are subject to verification on site and no guarantee can be given that this is a complete record.
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   900C - 900mm width Surface Channel
   900SC - 900mm width Stepped Channel
   900UC - 900mm width U Channel
   900DWFC - 900mm width Dry Weather Flow Channel
5. The Incoming Pipes are marked A1, A2, A3, ... counting clockwise from the first Outgoing Pipe X1. Outgoing Pipes are marked X1, X2, X3 ... counting clockwise from North.

eg.

SMH7000123
Cl. 4.68
A1 1.14-225
A2 1.29-375
X1 1.14-525

Manhole number
Cover Level or Ground Level
225mm dia. Incoming Pipe Invert Level
375mm dia. Incoming Pipe Invert Level
525mm dia. Outgoing Pipe Invert Level

6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
7. Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.

Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

Drainage Record Sheet Number

7-NE-1C-1

Last Updating : 4-7-2019

Map data renewed on December 2018

Mainland North Division
Drainage Services Department

A3

7-NE-1A-4

7-NE-1C-1

7-NE-1D-1

XTS1000181
TAIPO STW
Sewage Treatment Plant

濾水池
Filter Bed

濾水池
Filter Bed

WT

TS

CUL

道路
Road

泥路
Track

珀麗高爾夫球會高爾夫球練習場
Golf Park Golf Driving Range

FP

835400N
835300N
835200N
835100N
819700E
819800E
819900E
820000E
820100E
820200E
820300E

Legend :

- Storm Water Manhole
- Storm Water Terminal Manhole
- Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- Inspection Opening
- Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully

- Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- Existing Y-Junction (Storm/Sewer/Combined)

- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- Rising Main (Storm/Sewer)
- Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- Vaccum Sewer
- Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- Not Yet Commissioned Pipe (Storm/Sewer)
- Existing U Channel / Stepped Channel (Storm)
- Proposed U Channel / Stepped Channel (Storm)
- Works In Progress U Channel / Stepped Channel (Storm)

- Existing Submarine Outfall with Diffuser
- Proposed Submarine Outfall with Diffuser
- Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- Slope Number
- Slope Boundary
- Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)

(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

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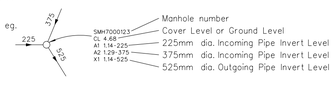
eg.



Manhole number
Cover Level or Ground Level
225mm dia. Incoming Pipe Invert Level
375mm dia. Incoming Pipe Invert Level
525mm dia. Outgoing Pipe Invert Level

6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
7. Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.

Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

7-NE-1C-4

Drainage Record Sheet Number

7-NE-1C-2

Last Updating : 4-7-2019

Map data renewed on December 2018

Mainland North Division
Drainage Services Department

A3

7-NE-1C-1

7-NW-5D-4

7-NE-1C-4

7-NE-6A-1

Legend :

- Storm Water Manhole
- Storm Water Terminal Manhole
- Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- Inspection Opening
- Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully
- Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- Existing Y-Junction (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- Rising Main (Storm/Sewer)
- Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- Vaccum Sewer
- Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- Not Yet Commissioned Pipe (Storm/Sewer)
- Existing U Channel / Stepped Channel (Storm)
- Proposed U Channel / Stepped Channel (Storm)
- Works In Progress U Channel / Stepped Channel (Storm)
- Existing Submarine Outfall with Diffuser
- Proposed Submarine Outfall with Diffuser
- Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- Slope Number
- Slope Boundary
- Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)

(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

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   900UC - 900mm width U Channel
   900DWFC - 900mm width Dry Weather Flow Channel
5. The Incoming Pipes are marked A1, A2, A3, ... counting clockwise from the first Outgoing Pipe X1. Outgoing Pipes are marked X1, X2, X3 ... counting clockwise from North.

eg. SMH1000123 — Manhole number; Cl. 4.68 — Cover Level or Ground Level; A1 1.14-225 — 225mm dia. Incoming Pipe Invert Level; A2 1.29-375 — 375mm dia. Incoming Pipe Invert Level; X1 1.14-525 — 525mm dia. Outgoing Pipe Invert Level

6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
7. Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.

Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

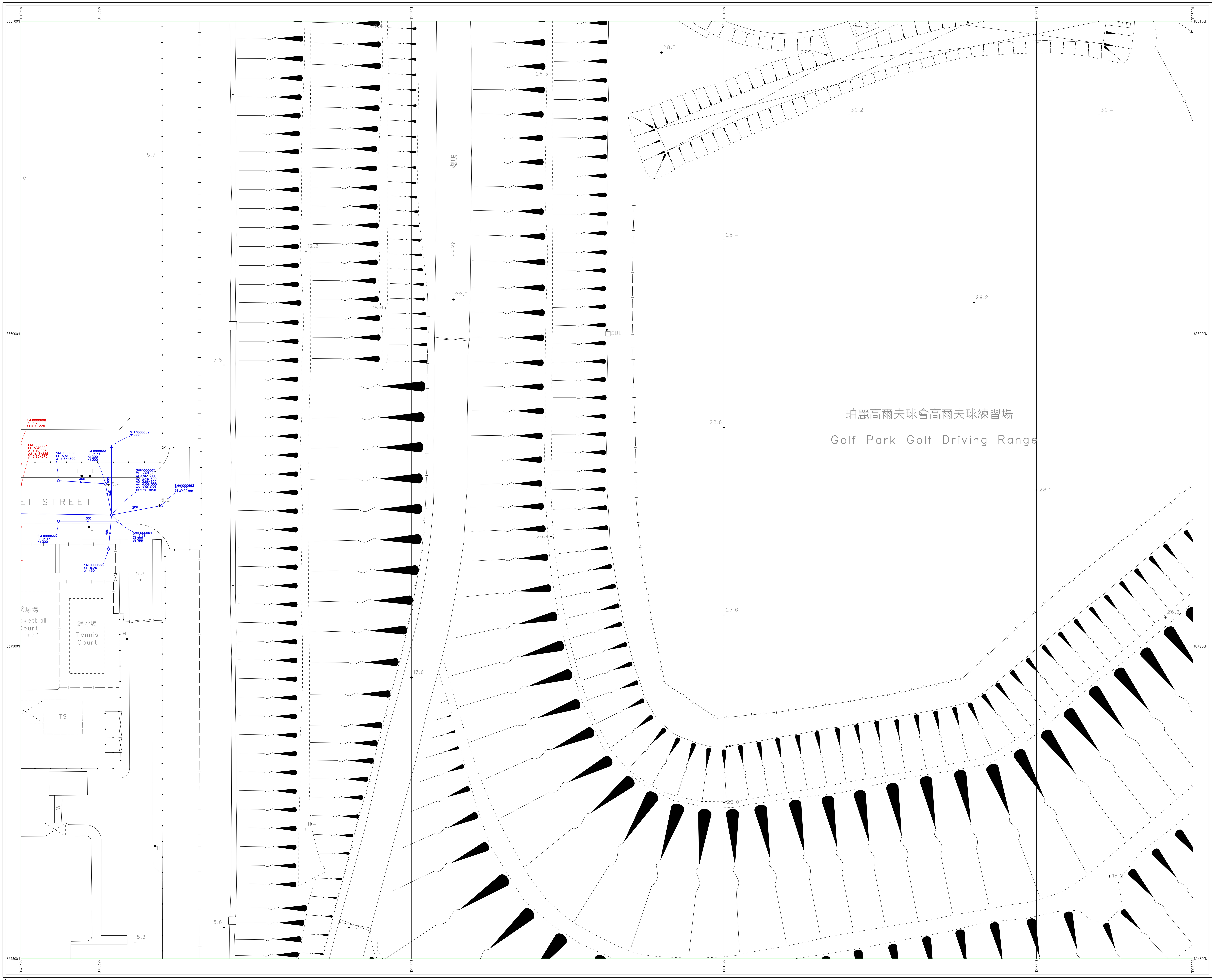
Drainage Record Sheet Number

7-NE-1C-3

Last Updating : 4-7-2019

Map data renewed on December 2018

Mainland North Division
Drainage Services Department



Legend :

- Storm Water Manhole
- Storm Water Terminal Manhole
- SSH Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- FSH Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- ZIA Inspection Opening
- DWF Interceptor Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully
- H/H Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- + / + Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- SYJXXXXXXX 450-LEFT / FYJXXXXXXX 450-LEFT / CYJXXXXXXX 450-LEFT Existing Y-Junction (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- RM Rising Main (Storm/Sewer)
- RM Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- VS Vaccum Sewer
- VS Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- P Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- N Not Yet Commissioned Pipe (Storm/Sewer)
- UC / SC Existing U Channel / Stepped Channel (Storm)
- UC / SC Proposed U Channel / Stepped Channel (Storm)
- UC / SC Works In Progress U Channel / Stepped Channel (Storm)
- 2100 SUBMARINE OUTFALL Existing Submarine Outfall with Diffuser
- 2100 SUBMARINE OUTFALL Proposed Submarine Outfall with Diffuser
- 2100 SUBMARINE OUTFALL Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- 11SW-D/CR8888 Slope Number
- Slope Boundary
- SSDS(100) Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
  (Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)
- SSDS(200) Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)
  (Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

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   900UC = 900mm width U Channel
   900DWFC = 900mm width Dry Weather Flow Channel
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   eg. 375, 225, 525
   SMH7000123 — Manhole number
   CL 4.68 — Cover Level or Ground Level
   A1 1.14-225 — 225mm dia. Incoming Pipe Invert Level
   A2 1.29-375 — 375mm dia. Incoming Pipe Invert Level
   X1 1.14-525 — 525mm dia. Outgoing Pipe Invert Level
6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
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Metres SCALE 1 : 500 Metres

10 0 20 40 60 80 100

Drainage Record Sheet Number

7-NE-1C-4

Last Updating : 4-7-2019

Map data renewed on December 2018

Mainland North Division
Drainage Services Department

A3

7-NW-5B-2

7-NW-5B-3

7-NE-1A-3

大埔工業邨
TAI PO INDUSTRIAL ESTATE

大順街
DAI SHUN STREET

大埔墟火車站
TAI WAI STREET

香港桐井有限公司
KIRII

美維科技集團有限公司
Meadville Technologies Group Limited

利苑
Lei Garden

永富容器（香港）有限公司
FC Packing (Hong Kong) Ltd.

平台
Podium

淘化大同食品有限公司
Amoy Food Limited

美心
Maxim's

平台
Podium

優良製藥作業規範
SYNCO

美亞鋁廠有限公司
Meyer

斜路 Ramp

Trans

大家樂中央產製２廠
Cafe de Coral
ral Processing Plant 2

德昌電機工業製造廠有限公司
Johnson Electric Industrial Mfy., Ltd.

毅興顏專有限公司
NHH Coltec Ltd.

美心食品２廠
Maxim's Food Factory 2

大順街
DAI SHUN STREET

大家樂中央產製１廠
Cafe de Coral
entral Processing Plant 1

永南食品有限公司
Winner Food Products Ltd.

露天貨倉
Open Storage

IL 1.08

837250E 837500E 837750E 838000E 838250E 838500E

835700N 835600N 835500N 835400N

Legend :

- Storm Water Manhole
- Storm Water Terminal Manhole
- Storm Water Special Manhole
- Sewer Manhole
- Sewer Terminal Manhole
- Sewer Special Manhole
- Combined Manhole
- Catchpit
- Desilting Opening
- Inspection Opening
- Dry Weather Flow Interceptor
- Sand Trap
- Inlet
- Outlet
- Gully Sump / Gully

- Tapping Point (Storm/Sewer)
- Overflow (Sewer/Combined)
- Interface Valve Chamber
- Oil / Petrol Interceptor
- Valve
- Water Gauge
- Spot Level (Storm/Sewer)
- Tunnel/Box Culvert (Storm/Sewer)
- Drainage Reserve
- Tunnel Protection Zone
- Existing Y-Junction (Storm/Sewer/Combined)

- Existing Pipe (Storm/Sewer/Combined)
- Existing Pipe (Storm/Sewer/Combined) (Planning / Identifying to be Abandoned)
- Rising Main (Storm/Sewer)
- Existing Rising Main (Storm/Sewer) (Planning / Identifying to be Abandoned)
- Vaccum Sewer
- Existing Vaccum Sewer (Planning / Identifying to be Abandoned)
- Abandoned Pipe
- Abandoned Pipe (Filled with Materials)
- Proposed Pipe (Storm/Sewer)
- Works In Progress Pipe (Storm/Sewer)
- Not Yet Commissioned Pipe (Storm/Sewer)
- Existing U Channel / Stepped Channel (Storm)
- Proposed U Channel / Stepped Channel (Storm)
- Works In Progress U Channel / Stepped Channel (Storm)

- Existing Submarine Outfall with Diffuser
- Proposed Submarine Outfall with Diffuser
- Works In Progress Submarine Outfall with Diffuser
- Slope Sign Board
- Slope Number
- Slope Boundary
- Harbour Area Treatment Scheme Sewage Tunnel Protection Area (100m width)
- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)

(Please note that all proposed works within the HATS Sewage Tunnel Protection Area have to be complied with the requirements in the Environment, Transport and Works Bureau Technical Circular (Works) No.28/2003 or the Practice Note for Authorized Persons, Registered Structural Engineers and Registered Geotechnical Engineers No. APP-62 issued by the Buildings Department)

7-NW-5D-2

Notes :

1. All levels are in metres principle datum.
2. All dimensions shown are in millimetres unless otherwise stated.
3. The information shown on the record drawings are subject to verification on site and no guarantee can be given that this is a complete record.
4. Abbreviations for Channels of width smaller or equal to 1200mm:
   900C - 900mm width Surface Channel
   900SC - 900mm width Stepped Channel
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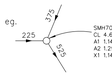
5. The Incoming Pipes are marked A1, A2, A3, ... counting clockwise from the first Outgoing Pipe X1. Outgoing Pipes are marked X1, X2, X3 ... counting clockwise from North.

eg.



Manhole number
Cover Level or Ground Level
225mm dia. Incoming Pipe Invert Level
375mm dia. Incoming Pipe Invert Level
525mm dia. Outgoing Pipe Invert Level

6. Piling foundations on culverts may be present but not shown for brevity. Please refer to the relevant as-built drawings on details of the pile foundation.
7. Drainage facilities maintained by other parties, if shown, are indicative only. It is no guarantee that these information are exact.

Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

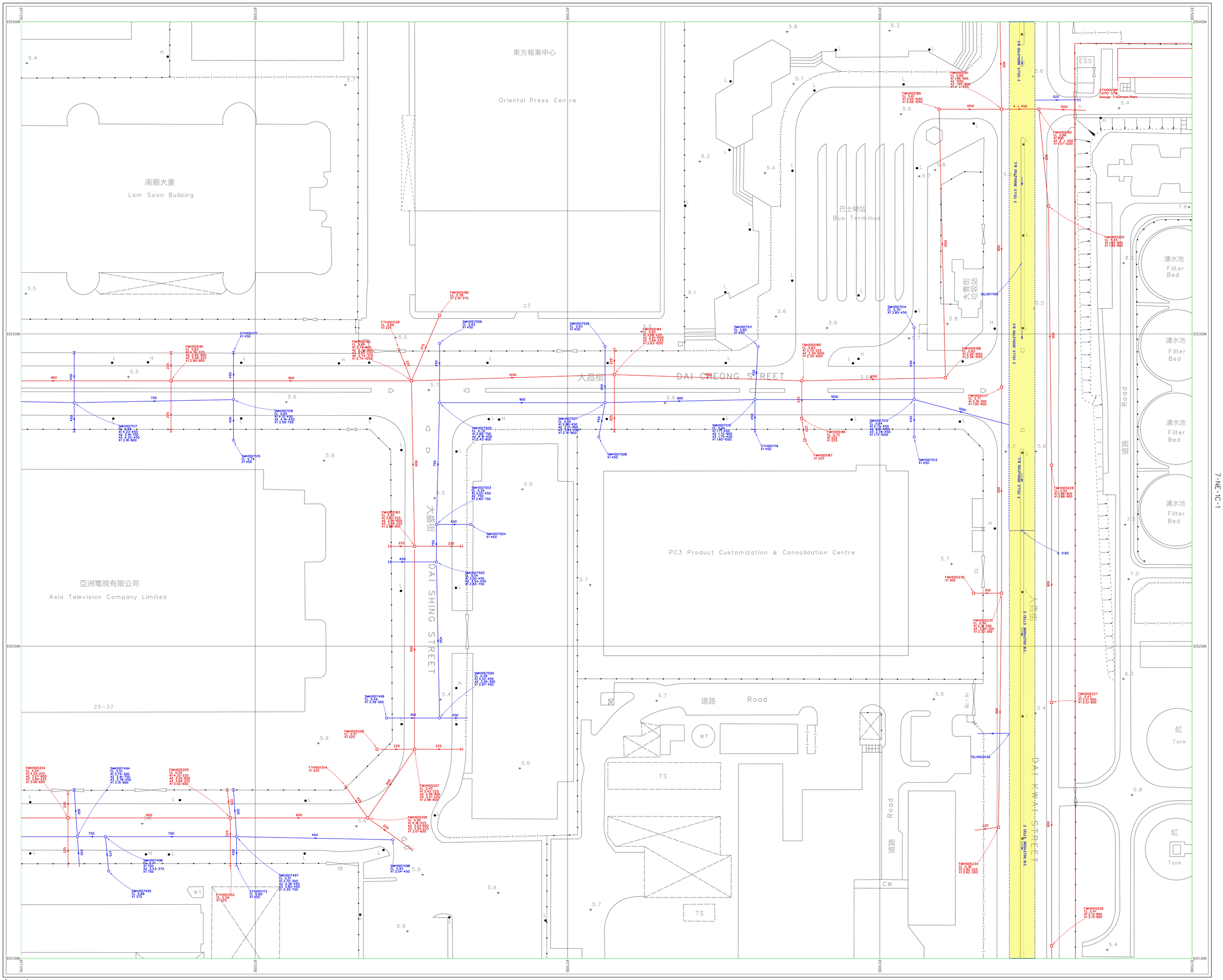
Drainage Record Sheet Number

7-NW-5B-4

Last Updating : 16-4-2019

Map data renewed on October 2018

Mainland North Division
Drainage Services Department



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- Harbour Area Treatment Scheme Sewage Tunnel Outer Protection Area (200m width)
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7-NW-5D-4

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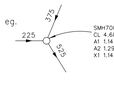

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Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

Drainage Record Sheet Number

7-NW-5D-2

Last Updating : 30-01-2019

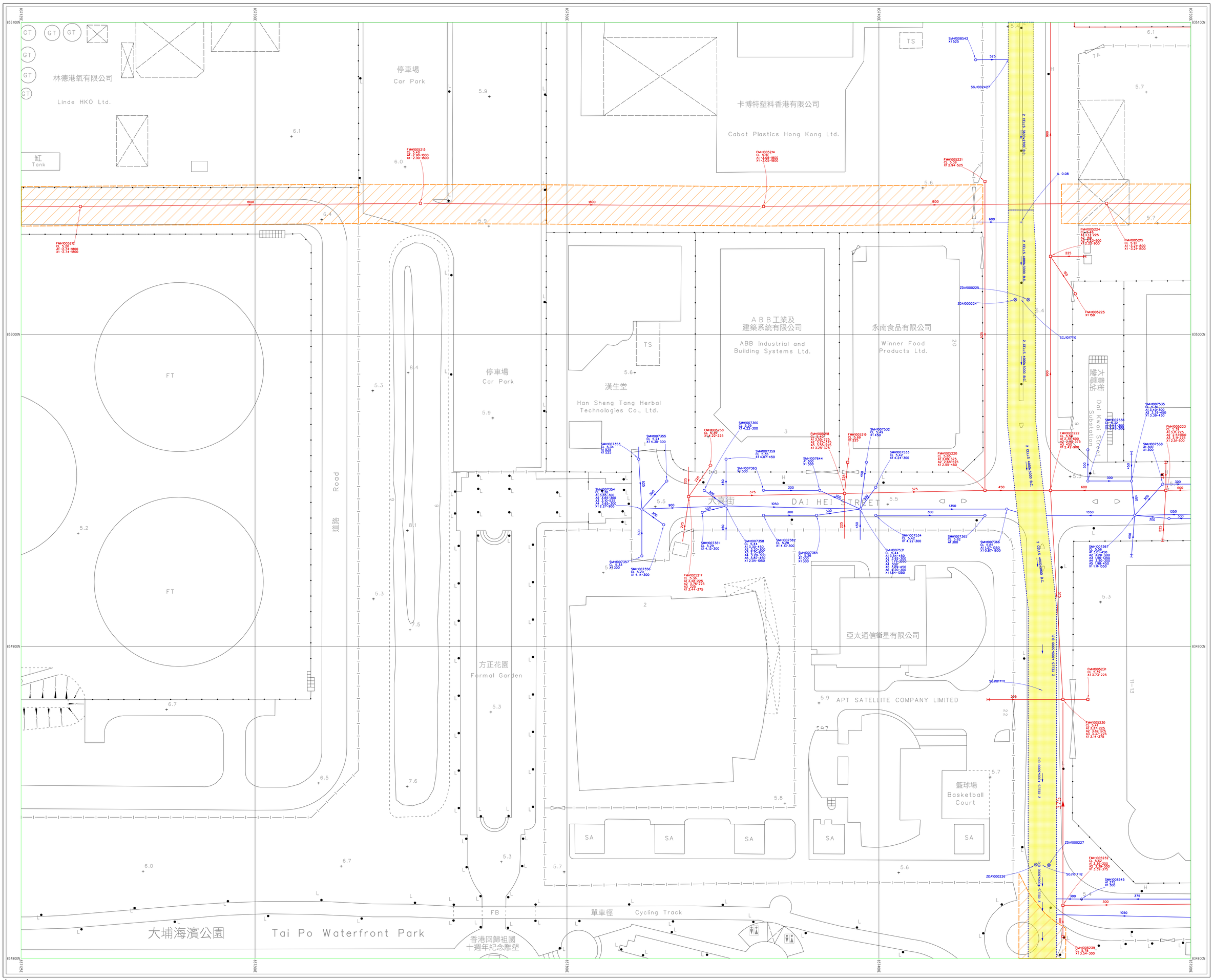
Map data renewed on October 2018

Mainland North Division
Drainage Services Department

7-NW-5D-2

7-NW-5D-3

7-NE-1C-3



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7-NW-10B-2

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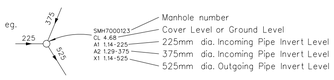

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Metres 10 0 20 40 60 80 100 Metres

SCALE 1 : 500

Drainage Record Sheet Number

7-NW-5D-4

Last Updating : 30-01-2019

Map data renewed on October 2018

Mainland North Division
Drainage Services Department