

計劃於貝澳南山南大嶼山郊野公園
安裝綜合流動電話收發站

工程項目簡介

和記電訊有限公司

由測建行有限公司制定

二零零九年五月

基本資料

工程項目名稱

- 1 計劃於貝澳南山南大嶼山郊野公園安裝綜合流動電話收發站。

工程項目的目的及性質

- 2 本工程項目是由和記電訊有限公司流動電話網絡商進行，旨在為遠足人士及郊野公園的旅遊人士提供另一種的通訊方法和在危急的情況下確保旅遊人士可以使用通訊服務，因此需要於貝澳南山南大嶼山郊野公園安裝流動電話收發站。

工程項目倡議人名稱

- 3 和記電訊有限公司

工程項目的地點及規模

- 4 擬建的綜合流動電話收發站將在**附件一**的位置圖所顯示的南大嶼山郊野公園範圍內興建，地點共佔 16 平方米的郊野公園用地[4.0 米 (長度) x 4.0 米 (闊度)] 並興建於山上(海拔 271 米)。工程將包括裝置一個混凝土基台、一個無線電話儀器房[4.0 米 (長度) x 3.0 米 (闊度) x 2.0 米 (高度)]與一支 5 米高的天線桿及其他設備包括電力供應及電話線。天線桿頂將安裝一支 0.5 米高的避雷針和航空顯示燈。以上裝置將會被鐵絲網包圍。所有建築材料、天線桿、天線和設備基台將由直昇機運送，而廢料亦會由直昇機直接運走。上述工程將不會興建小徑。
- 5 地政總署還未發出短期租約信，但已初步同意在建議地點興建一個綜合流動電話收發站和發出草稿的短期租約(STT No.CX1824)。估計短期租約信將於二零零九年六月尾發出。
- 6 公共設施包括電力供應及電話線將會安裝在本綜合流動電話收發站內。
- 7 電訊覆蓋範圍及對環境的影響是選址的重要因素，建議地點被認為是提供南大嶼山郊野公園覆蓋範圍的最佳地點。其他地點亦曾被考慮，但發現不適合。

指定工程項目

- 8 是項工程是於**附件一**中所指的擬建工地上興建綜合流動電話收發站。根據環境影響評估條例附表 2 第 I 部 Q1 項，基於是項工程含有在自然保育區範圍內進行建築工程，故此是項工程乃指定工程項目，並不列入 Q1 項 (a) 至 (j) 的例外工程中。

聯絡人的姓名及電話號碼

- 9 工程之聯絡人爲和記電訊有限公司陳仲興先生，聯絡電話 2128 5838，傳真號碼 3152 2751。

規劃大綱及工程項目的執行

- 10 是項工程項目是由和記電訊有限公司規劃及管理，目的在建議地點裝置電訊設備以提供網絡。
- 11 在取得離島區地政處批出短期租約及由環保署所發出的許可證和屋宇署的開工同意書後，工程項目主管，和記電訊有限公司，將會根據工程編制表展開及完成工程。結構圖則在 2009 年 4 月 7 日已獲屋宇署審批。屋宇署發出的批核信和結構圖則載於附件五。

工程項目時間表

- 12 預期工程，包括安裝天線及電訊設備將預期於 2009 年 10 月初動工，爲期一個半月，並預期於 2009 年 11 月中完工。預計綜合流動電話收發站將於 2009 年 12 月初投入服務。工程編制表載於**附件二**。

泥頭將會由直昇機盡快運走，而開坑的地方將會用英泥沙或草鞋蓋上，避免積水及山泥傾瀉。

對環境可能造成的影響

建築期間

- 13 有關建築期間直至完工之環境及視覺影響，請參閱第 21 項和第 22 項。
- 14 有關建築期間直至完工之所產生的噪音將會減至最少，詳情請參閱第 23 項。
- 15 有關建築期間直至完工之廢料處理，包括建築及多餘物料將會減至最少，詳情請參閱第 24 項。
- 16 有關建築期間所產生的沙塵將會減至最少，詳情請參閱第 25 項。
- 17 由於挖掘深度不足 1600 毫米及不需岩石爆破，此項目並不涉及大形挖泥工程或泥土運輸。
- 18 是項工程並不需要晚間工作。
- 19 預料建築期間直至完工，將不會對生態或環境造成任何影響。

運作期間

- 20 該綜合流動電話收發站竣工後將不會對周圍環境造成嚴重影響。地理位置相片及電訊設備詳圖載於**附件三和六**。有關相似的綜合流動電話收發站的相片載於**附件四**。

周圍環境的主要元素

- 21 周圍環境的主要元素如下：

背景

設備基台位於山上。基台給雜草、矮樹叢圍繞。設備基台給斜坡圍繞。南方是主要大路。位於東方是一條小徑。小徑引導到警察接收發射站，沿途路經直昇機亭。而直昇機亭是位於設備基台的北方。設備基台的範圍和鄰近沒有溪流。

目前該處並無已落成或籌劃中的噪音監測站。另外，該處亦無輻射監測站，空氣監測站，噪音監測站，生態監測站及古蹟監測站。因此，是項工程並不會影響自然保育區的現狀。

擬建工地生長著一般在香港常見的雜草包圍，如桃金娘，潺木高樹和鵝掌柴，但沒有樹木。因佔地很少(約 16 平方米)，擬建的綜合流動電話收發站不會影響上述的植物。興建綜合流動電話收發站並不需要砍伐樹木。

對園林之影響

擬建的無線電收發站包括一個 2 米高的無線電話設備房與一支 5 米高的天線桿興建於山上(海拔 271 米)。綜合流動電話收發站的最高點為海拔 276.5 米(已包括 0.5 米避雷針)，而山頂的最高點為海拔 274.8 米。綜合流動電話收發站的面積小及距離貝澳老圍村相當遠(相距多於 300 米)，因此，綜合流動電話收發站並不顯眼。

將採取的環保措施

- 22 為了符合政府飛行服務隊之航空安全的要求，天線桿將髹上紅白間油漆以便航空使用者注意。
- 23 擬建工程只會使用輕巧工具，大形工具並不會使用。加上噪音監測站離開工地多於 600 米，所以工程項目將不會產生顯著的噪音影響。工程亦只會於日間(上午九時至下午七時)進行。由於星期六、日及公眾假期時，遊人會較多，因此，於上述日子將會暫停有關的建築工程。

- 24 工程所產生的建築廢料將會由直昇機盡快運走。直昇機服務只會在運送建築材料，廢料和落石屎時使用。若果建築廢料不能在當日運走，它們會給帆布蓋上，防止溜走。因為安全理由建築材料和廢料不會擺放在直昇機亭和鄰近的地方。大概估計直昇機使用的次數是 150 次在 49 日內，而工程所產生的建築廢料大概估計是 13 平方米。
- 25 擬建工地將會經常灑水以保持濕潤，以免於工程中產生塵埃。

周圍環境的主要元素

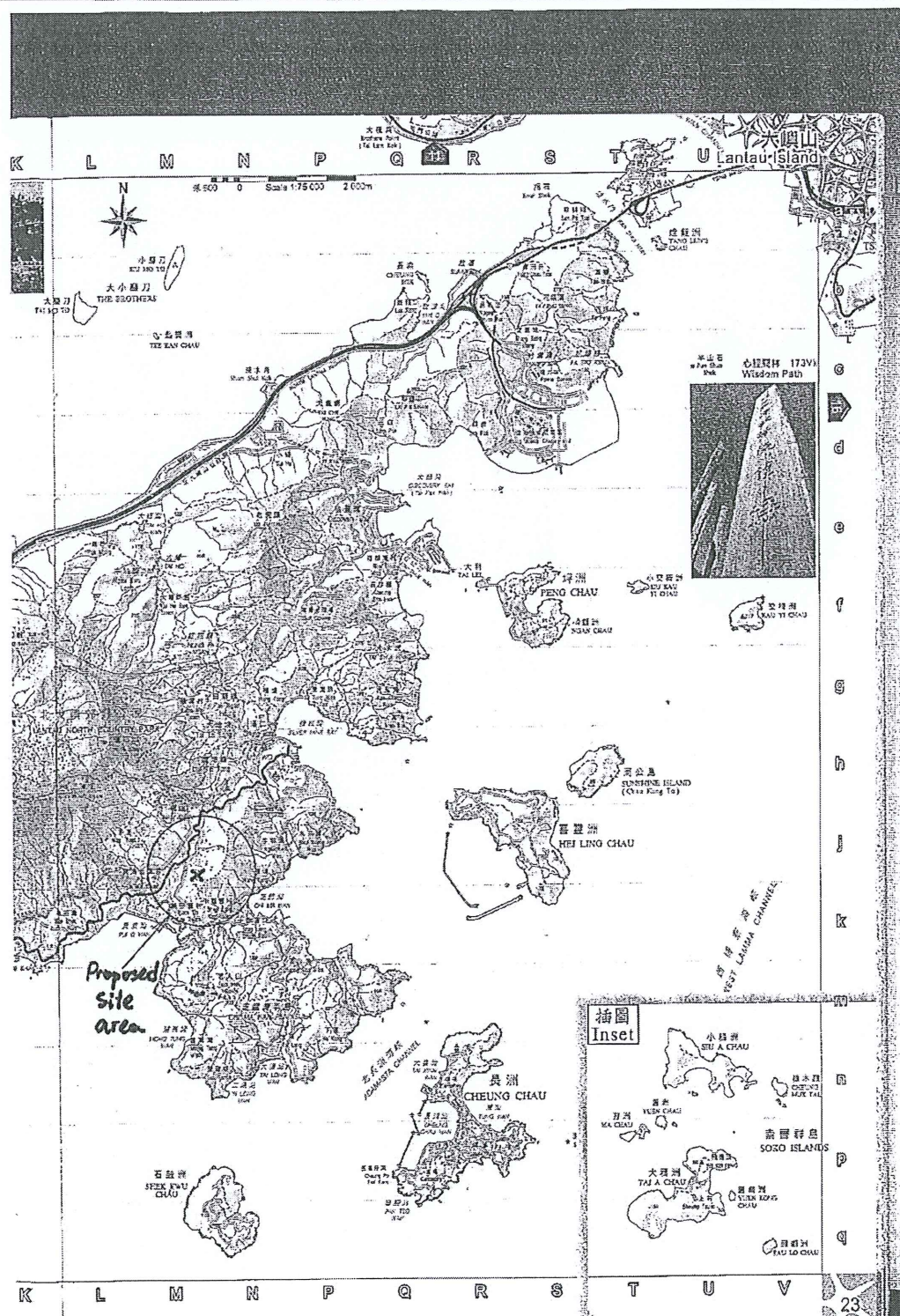
- 26 是項工程中將會導入” Standard Pollution Mitigation Measures”。綜合流動電話收發站之運作無須任何工作人員，因此將不會產生噪音或對空氣或水質造成影響。
- 27 綜合流動電話收發站之運作將會遵守電訊管理局所發出之”防止無線電發射設備所發出的非電離輻射對工作人員及市民構成危險的工作守則”。擬建工地遠離遊人活動範圍。另外，收發站的訊息所發放儀器位於遊人頭頂水平上最少 5 米以上。因此，收發站所發放的輻射將不會對公眾造成影響。
- 28 如有需要，和記電訊有限公司將會派人每年清潔流動電話收發站及重新上油。除非當收發站發生問題或需要緊急維修，將會在第一年派人每三個月一次及往後每年一次進行定期檢查。如此低密度的維修將不會對環境造成明顯的影響。

附件

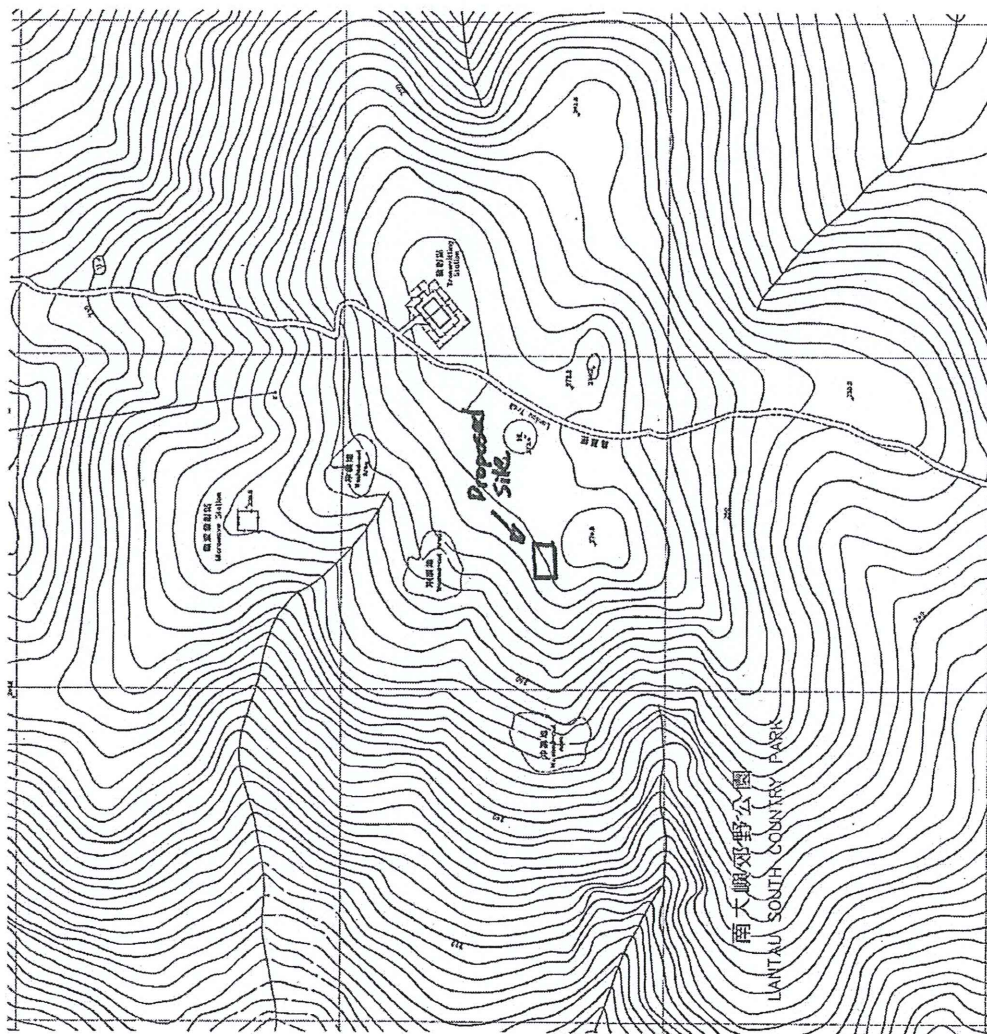
- | | |
|------|-------------------------|
| 附件 一 | 工地位置圖及局部平面圖 |
| 附件 二 | 工程編制表 |
| 附件 三 | 地理位置相片 |
| 附件 四 | 一般相似的流動電話收發站相片 |
| 附件 五 | 屋宇署在 4 月 7 日發出的批核信和結構圖則 |
| 附件 六 | 電訊設備詳圖 |

附件 一

工地位置圖及局部平面圖



SITE LOCATION PLAN



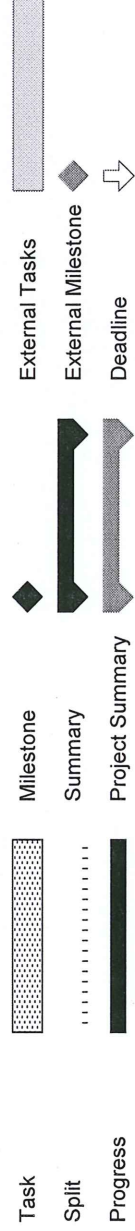
SITE PLAN

附件二

工程編制表

Proposed Installation of Integrated Radio Base Station at Lantau South Country Park, Nam Shan, Pui O, N.T.

ID	Task Name	Duration	Start	Finish	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Submission of Project Profile (PP) / Apply for permission to apply directly for Environmental Permit (EP)	45 days	Mon 25/5/09	Wed 8/7/09									
2	Permission from EPD for apply for EP directly	5 days	Thu 9/7/09	Mon 13/7/09									
3	Apply for EP	30 days	Tue 14/7/09	Wed 12/8/09									
4	Apply for consent and submission of SSP	30 days	Thu 13/8/09	Fri 11/9/09									
5	Seek AFCD Permission to carry out work	7 days	Sat 18/7/09	Fri 24/7/09									
6	Notification of commencement of work	7 days	Thu 1/10/09	Wed 7/10/09									
7	Carry out excavation work	14 days	Thu 8/10/09	Wed 21/10/09									
8	Construction of footing	30 days	Thu 22/10/09	Fri 20/11/09									
9	Equipment and Antenna installation	7 days	Sat 21/11/09	Fri 27/11/09									
10	Testing and Commission	5 days	Sat 28/11/09	Wed 2/12/09									



Project: works schedule_1
Date: Mon 25/5/09

附件 三

地理位置相片



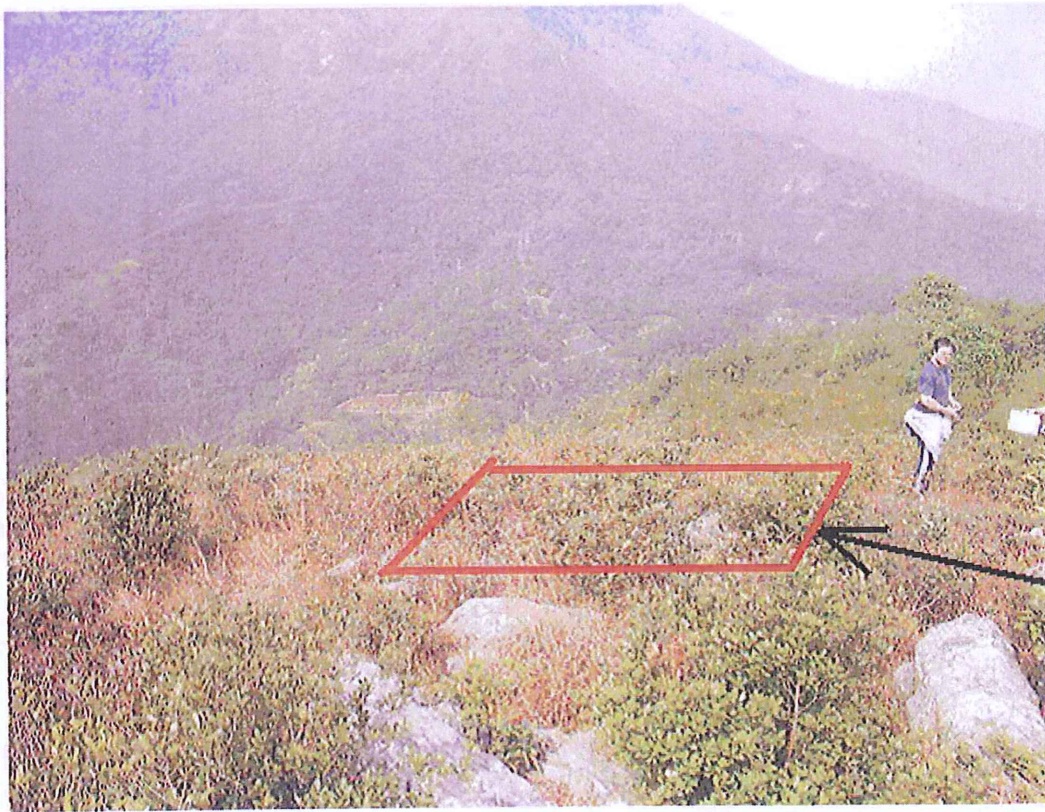
**Proposed
Site Area**

Photo 1: General view of the proposed area



**Proposed
Site Area**

Photo 2: General view of the proposed area



**Proposed
Site Area**

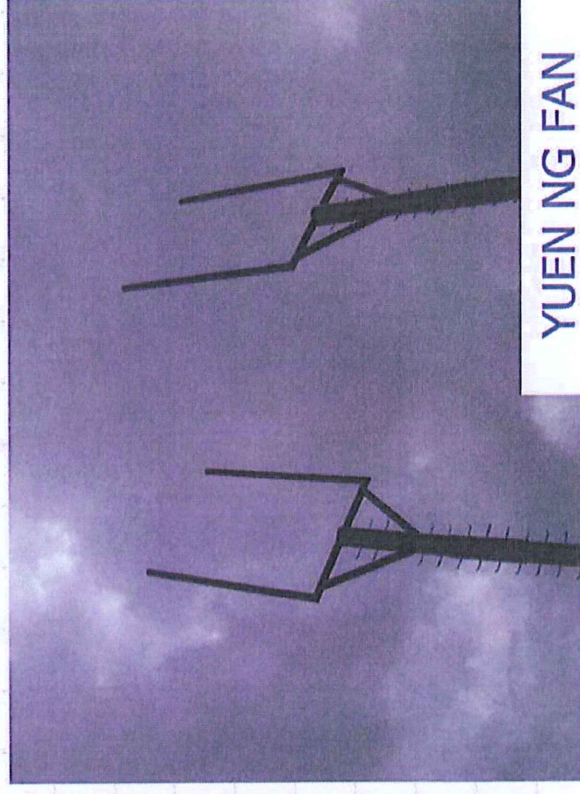
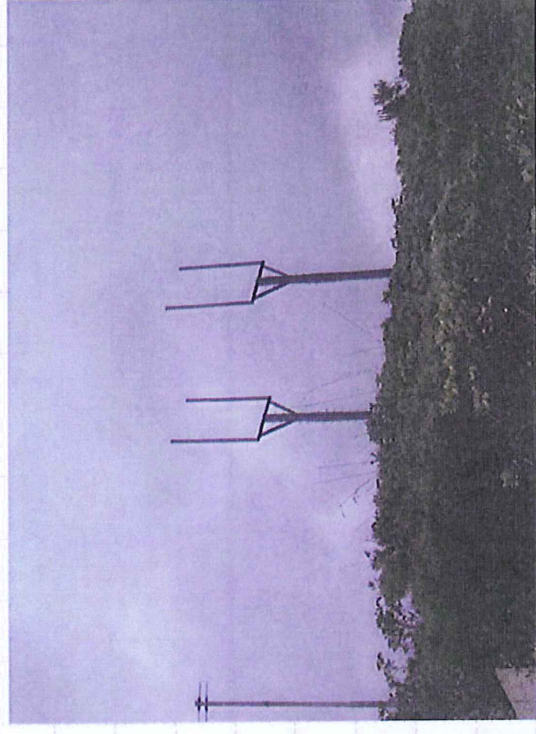
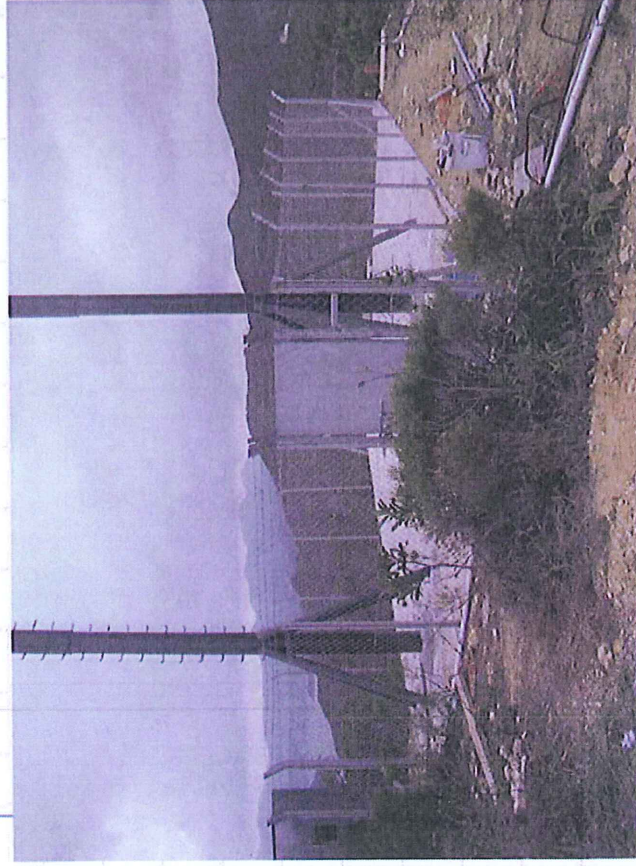
Photo 3: General view of the proposed area

附件四

一般相似的流動電話收發站相片

Country Park

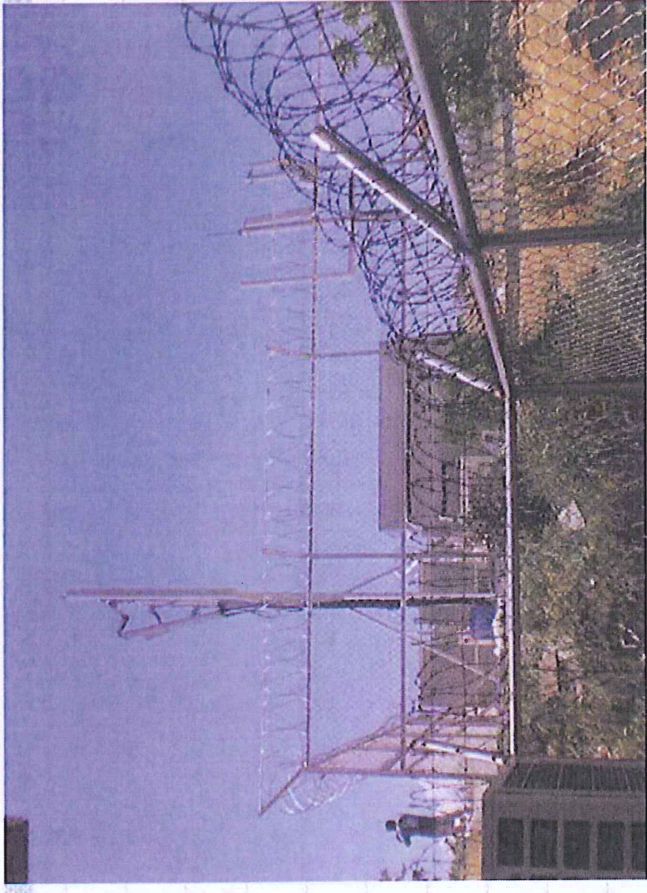
Duty: Design the equipment shelter and antennas, Submission to Buildings Department for approval, Site supervision to the works



YUEN NG FAN

Country Park

Duty:- Design the equipment shelter and antennas, Submission to Buildings Department & Environmental Department for approval, Site supervision to the works,



SOUTH LANTAU ISLAND COUNTRY
PARK, MAN CHEUNG PO, TAI O

附件五

屋宇署在 4 月 7 日發出的批核信和結構圖則



FILE RECORD

OUR REF 本署檔號: BD 2/9014/08
FAX 圖文傳真: 2845 1559
TEL 電話: 2626 1278
www.bd.gov.hk

Mr. WONG Wing-cheung Dennis
c/o Prudential Surveyors International Ltd.
Rooms 3101-3106, Dah Sing Financial Centre
108 Gloucester Road
Wanchai, Hong Kong

7 April 2009

Dear Sir,

Lantau South Country Park, Nam Shan,
Pui O, Lantau Island - Is. Misc 214
(To be known as STTCX 1824)

BUILDING DIVISION		Project Section
Date Rec'd	1.4.09	
Project Manager		
IN		CL
LW		WP
CP		AH
SL		LC
PC		EW
AL		DL
TL		KT
KS		WKL
File		Copy to

I refer to your application dated received on 9 March 2009 for approval of proposals in respect of Building and Structural.

2. Your submission of plans has been checked under the curtailed check system announced in Practice Note for Authorized Persons & Registered Structural Engineers 272. On this basis, I am satisfied that your submission is fundamentally acceptable and may be approved.

3. You are reminded that the curtailed check system covers only the fundamental issues of a building proposal. Although non-fundamental issues will not be raised as reasons for disapproving a submission, I expect that all contraventions of the Buildings Ordinance and its subsidiary legislation are rectified as and when they are discovered and in any event, before completion of the works is certified. In this connection, I ask you to note that the Building Authority attaches great importance to the proper assumption of duties and responsibilities by authorized persons and registered structural engineers.

4. In accordance with the provisions of regulation 30(1) of the Building (Administration) Regulations, this is to notify that the above - mentioned plans submitted with your application dated received on 9 March 2009 are hereby approved. One set of the said plans, on which I have signified my approval, is enclosed. Your client has been sent a copy of this letter but I would request that you ensure that the contents are understood by him.

5. This approval should not be deemed to confer any title to land or to act as a waiver of any term in any lease or licence. This approval does **NOT** authorize the commencement or the carrying out of any works shown in the approved plans. Section 14(2) of the Buildings Ordinance refers.

(Please see attached sheet)

Yours sincerely,

c.c. Hutchsion Telephone Co. Ltd.
12/F, Hutchsion Telecom Tower,
99 Cheung Fai Road,
Tsing Yi, New Territories

DPO/SK & Is DLO/Is CGE/MW, GEO
DFS DGCA DAF&C
CO/SM SPO/IAU

(Shum Luk-cheung)
Chief Building Surveyor
for Building Authority

S.L. 9 (02/2004)

Our ref.: BD 2/9014/08

6. This approval is subject to conditions and requirements stipulated in Appendices A to C attached.

7. Under Building (Administration) Regulation 10, you are required to submit the ground investigation report to verify the design bearing capacity of the founding stratum. Consent to the commencement and carrying out of the foundation works now approved will not be given until the above ground investigation report has been submitted and found satisfactory. Section 16(3)(ba) of the Buildings Ordinance refers.

8. District Planning Officer/Sai Kung & Islands, Planning Department (contact officer: Mrs. Maggie W F LAM, tel. 2158 6158) has the comments in Appendix D.

9. Director-General of Civil Aviation (contact officer: Ms. Cecilia Pang, tel. 2183 1252) has the comments in Appendix E.

10. Chief Geotechnical Engineer/Mainland West, Geotechnical Engineering Office, Civil Engineering and Development Department (contact officer: Mr. S Y CHU at tel. 2762 5218) has the comments in Appendix F.

11. Director of Agriculture, Fisheries and Conservation (contact officer: Mr. K T CHAN, tel. 2150 6843) commented that the antenna pole of the mobile phone base station should be painted in Pantone 462U, BS10B25 or similar subdued colours to match with the surrounding natural environment.

12. Your submission of plans has been referred to District Lands Officer/Islands for direct comment.

13. A form F.BD106 is enclosed.

14. Your submission of plans has been selected for audit checking but contraventions on non-fundamental issues were not identified.

Ref : BD 2/9014/08

Address : Lantau South Country Park, Nam Shan, Pui O, Lantau Island - Is. Misc 214

Appendix A to approval dated - 7 APR 2009

Reinforced Concrete Works

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Sampling and testing of steel reinforcement should be carried out in accordance with Practice Note for Authorized Persons and Registered Structural Engineers 122 (PNAP 122) current at the date of this approval. Testing should be carried out by a laboratory* accredited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for the particular test concerned. Test results should be reported on a HOKLAS Endorsed Certificate and submitted within 60 days of the delivery of the steel reinforcement to the site. The test reports should be appended with a statement signed by the Authorized Person/Registered Structural Engineer to confirm the following:
 - (i) All steel reinforcement used for the construction and the test specimens covered by the test reports are in accordance with the types and grades of steel shown in the approved plans.
 - (ii) Sampling and testing of steel reinforcement used have been carried out in accordance with the current PNAP 122.
 - (iii) The acceptance criteria appropriate to each type and grade of steel reinforcement used have been complied with.
 - (iv) All steel reinforcement tests have been carried out by a laboratory* accredited under HOKLAS.
- (b) Sampling of concrete and compression testing of concrete test cubes should be carried out in accordance with the methods specified in CS1:1990. Testing should be carried out by a laboratory* accredited under HOKLAS for the particular test concerned. Test results should be reported on a HOKLAS Endorsed Certificate and submitted within 21 days after testing. The test reports[#] should be appended with a statement signed by the Authorized Person/Registered Structural Engineer to confirm the following:

- (i) All concrete used for the construction and concrete cubes covered by the test reports are in accordance with the concrete grades shown in the approved plans.
 - (ii) Concrete cube sizes, rates of sampling fresh concrete for testing and acceptance criteria for compressive strength set out in Building (Construction) Regulations have been complied with.
 - (iii) All concrete cube tests have been carried out by a laboratory* accredited under HOKLAS and in accordance with the methods specified in CS1:1990.
- (c) Qualified site supervision of the reinforced concrete works and of the sampling of concrete and making and curing of test cubes, by an experienced and competent person, should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.

* A Directory of Accredited Laboratories in Hong Kong is obtainable from the Hong Kong Accreditation Service (HKAS) Executive, Innovation and Technology Commission.

Up-to-date information on accredited laboratories and their scopes of accreditation are available on the internet at the HKAS website at <http://www.info.gov.hk/itc/hkas/>.

A laboratory's accreditation for an individual test or calibration may be granted, modified or withdrawn at any time. To ensure that the test that you commission the laboratory to conduct is within its scope of accreditation, please always insist on test results be reported on a HOKLAS Endorsed Certificate.

- # The test reports, when submitted, should be appended with a summary which contains information on locations of concerned structural elements, concrete grades and dates of cast. The summary should also include previous summary information of concrete cube test reports in chronological order.

Ref : BD 2/9014/08

Address : Lantau South Country Park, Nam Shan, Pui O, Lantau Island - Is. Misc 214

Appendix B to approval dated - 7 APR 2009

Structural Steel Works

In giving this approval of plans, I hereby impose the following conditions under item 6 in section 17(1) of the Buildings Ordinance:

- (a) Qualified site supervision of the structural steel works, including fabrication, erection and examination of the structural elements, by an experienced and competent person should be provided to ensure that the works are carried out in accordance with the plans approved and that the required standards are complied with.
- (b) For welding of structural steel works, welding procedures and welders should be assessed/tested in accordance with the appropriate provisions of the Annex A to the Code of Practice for the Structural Use of Steel 2005.
- (c) Non-destructive testing of welds should be carried out in accordance with the appropriate provisions of the Code of Practice for the Structural Use of Steel 2005 and by a laboratory* accredited under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) or by other laboratory accreditation bodies which have reached mutual recognition agreements/arrangements with HOKLAS for the particular test concerned. The test reports[@] shall be kept on site and made available for inspection by representatives of the Buildings Department.

2. Under Building (Administration) Regulation 10, the following documents are required to be submitted for structural steel of Classes 1, 2 or 1H classified in accordance with the Code of Practice for the Structural Use of Steel 2005:

- (a) A copy of mill certificates of the structural steel used, which should be appended with a statement signed by the authorized person/registered structural engineer to confirm that the requirements of chemical composition and mechanical properties appropriate to the type of steel have been complied with and the structural steel used is produced from a manufacturer with an acceptable Quality Assurance system.

3 Where structural steel of Classes 2, 3 or 1H is used, the following conditions are imposed under item 6 in section 17(1) of the Buildings Ordinance:

Sampling and testing of structural steel should be carried out in accordance with Annex D to the Code of Practice for the Structural Use of Steel 2005. Testing should be carried out by a laboratory* accredited under HOKLAS or by other laboratory accreditation bodies which have reached mutual recognition agreements/arrangements with HOKLAS for the particular test concerned. The test results@ should be appended with a statement signed by the authorized person/registered structural engineer who has prepared the plans and submitted within 60 days of the delivery of the structural steel to the site for confirmation of the followings:

- (i) All structural steel used for the construction and the test specimens covered by the test reports are in accordance with the classes and grades of steel shown in the approved plans.
- (ii) Sampling and testing of structural steel used have been carried out in accordance with the Code of Practice for the Structural Use of Steel 2005.
- (iii) The acceptance criteria appropriate to each class and grade of steel used have been complied with.
- (iv) Testing of steel has been carried out by a laboratory* accredited under HOKLAS or by other laboratory accreditation bodies which have reached mutual recognition agreements/arrangements with HOKLAS.

* Up-to-date information on accredited laboratories and their scopes of accreditation are available on the internet at the HKAS website at <http://www.info.gov.hk/itc/hkas/>.

@ The test carried out by an accredited laboratory should be within its scope of accreditation. Test results should be reported on a HOKLAS Endorsed Certificate or equivalent Certificate/Report issued from other laboratory accreditation bodies which have reached mutual recognition agreements/arrangements with HOKLAS.

Ref : BD 2/9014/08

Address : Lantau South Country Park, Nam Shan, Pui O, Lantau Island - Is. Misc 214

Appendix C to approval dated - 7 APR 2009

Foundation Works (Spread Footings/Rafts)

In giving this approval of plans, you are reminded that site supervision of the foundation works by a team of supervisors shall be provided each by the Authorized Person, the Registered Structural Engineer and the Registered Specialist Contractor / Registered General Building Contractor in accordance with the Technical Memorandum for Supervision Plans and the Code of Practice for Site Supervision to ensure that the quality of the foundation works is up to standard and that the works are carried out in accordance with the plans approved and in such a manner as not to render inadequate the margin of safety of, or impair the stability of, or cause danger to any building, structure, land, street or services. Details of site supervision for the foundation works shall be included in the supervision plan and submitted prior to or at the time of application for consent to the commencement of the foundation works.

2. In connection with paragraph 1 above regarding inspection of bearing stratum to check for compliance with approved plans, site investigation reports and design assumptions, the Buildings Department should be notified of the time and date of the inspection so that it may be witnessed by a representative from the Department.

3. Under Building (Administration) Regulation 10, two sets of foundation record plans and report together with the Form BA 14 stipulated in Building (Administration) Regulation 25 to certify the completion of the foundation works are required to be submitted. The record plans should show the characteristic features of the site and the identification, location, size and founding level of each foundation unit as constructed

Appendix D

District Planning Officer/Sai Kung & Islands, Planning Department (contact officer: Mrs. Maggie W F LAM, tel. 2158 6158) has the following comments:

I refer to your ~~memo under reference and a copy of~~ re-submission of the building plan (Drawing No. 346-S1) for the proposed radio base station at the subject site.

Statutory Comment

2. The subject site falls within an area zoned "Country Park" ("CP") on the Approved South Lantau Coast Outline Zoning Plan No. S/SLC/14 (the Plan). According to the Notes of the Plan, all uses and developments require consent from the Country and Marine Parks Authority and approval from the Town Planning Board is not required. In this regard, I have no comment on the proposed radio base station from statutory planning point of view.

Other Comment

3. The above comments on the building plan submitted may be subject to revision should there be a change in circumstances before a decision on the building plan is made by the Building Authority.

Appendix E

Director-General of Civil Aviation (contact officer: Ms. Cecilia Pang, tel. 2183 1252) has the following comments:

2. We have nil comment on the proposal.
3. We would like to keep the set of the AP's drawing for reference.
4. In passing, the proposed structure exceeds the airport height restrictions limit specified in the Hong Kong Airport (Control of Obstructions) Ordinance (CAP. 301). Having assessed the details as shown in the AP's drawing, we have advised Secretary for Development vide our memo of 24 March 2009 in the even series (a copy of the memo is attached for your easy reference) that we have no objection to the proposal and their application for a permanent exemption from CAP. 301 from airport height restriction point of view.

Appendix F

Chief Geotechnical Engineer/Mainland West, Geotechnical Engineering Office, Civil Engineering and Development Department (contact officer: Mr. SY CHU at tel. 2762 5218) has the following comments:

Recommendations (to be transmitted to AP/RSE/RGE)

2. There is no in-principle geotechnical objection to the approval of the building & structural amendment plan (Drg. No. 346-S1) at f(21)¹ in BD 2/- main file.

3. Please ask the AP/RSE/RGE to submit the following information to the satisfaction of BD prior to the Form BA13 occupation permit for the radio base station works:

(a) Pursuant to PNAP: 167, submission of phase 1 test results e.g. fill density and compaction tests, etc in accordance with GEOSPEC 3 to be issued on HOKLAS – endorsed test certificates or report.

4. Please be advised that my comments under paragraphs 4 & 5 of my memo under the same reference dated 17 March 2008 are still applicable.

..... 5. My internal comments are attached at Appendix A of this memo.

BUILDING AUTHORITY OF HONG KONG
Form BD 106
BUILDINGS ORDINANCE
(Chapter 123)
Section 42

Permit under Section 42

Permit No. NT 110/2009(MOD)
Our Ref. No. BD 2/9014/08
To : Hutchison Telephone Tower
c/o Mr. WONG Wing-cheung Dennis
12th Floor, Asian House,
1 Hennessy Road, Wanchai,
Hong Kong.

Date 7 April 2009


In exercise of the powers vested in me by section 42 of the Buildings Ordinance, I hereby grant modification of and/or exemption from the provisions of -

Building (Planning) Regulation 41D to permit the non-provision of EVA for the mobile phone base station.

in respect of the proposed *building works/~~street works~~ at (No. and name of street and locality) Lantau South Country Park, Nam Shan, Pui O, Lantau Island on (lot no.) Is. Misc 214.

2. This permit is granted subject to the following conditions :-

- (a) The said works are to be carried out in accordance with the plans approved on 7 April 2009 under our Ref. No. BD 2/9014/08.
- (b) A checklist of valid Forms BD106 is to be submitted at the time of the application for an occupation permit.


(SHUM Luk-cheung)
Chief Building Surveyor
for Building Authority

*Delete whichever is inapplicable

STRUCTURAL WORKS

- FIRE SERVICES NOTES:

1. No F.S. equipments installation is required

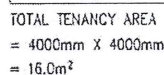
OTHERS:

1. Ancient pots shall be painted in flaking Aztec, Basque or similar

THE PROTECTION OF EARTHWORKS AGAINST HEAVY RAINFALL

1. Surface water flowing into the site from adjacent ground shall be intercepted and conducted from the site to an indicated safe discharge point.
2. All earthworks shall be graded and sealed to ensure run-off and to avoid ponding.
3. A method of working shall be adopted to minimize the exposed base soil at any time.
4. Where temporary base earth slope faces are unavoidable, they shall be protected with stepping well-secured against the wind.
5. If the slope faces are temporary exposed for more than two weeks temporary hard surfacing shall be provided and temporary shall be installed.

TENANCY AREA



SCHEDULE OF CO-ORDINATE FOR
ANTENNA POLE & CONCRETE PLINTH

PONT	EAST	NORTH
(A)	816933.07 E	812337.10 N
(B)	816937.19 E	812334.36 N
(C)	816933.31 E	812333.36 N
(D)	816932.31 E	812337.24 N
(E)	816935.19 E	812338.24 N
(F)	816934.75 E	812335.80 N

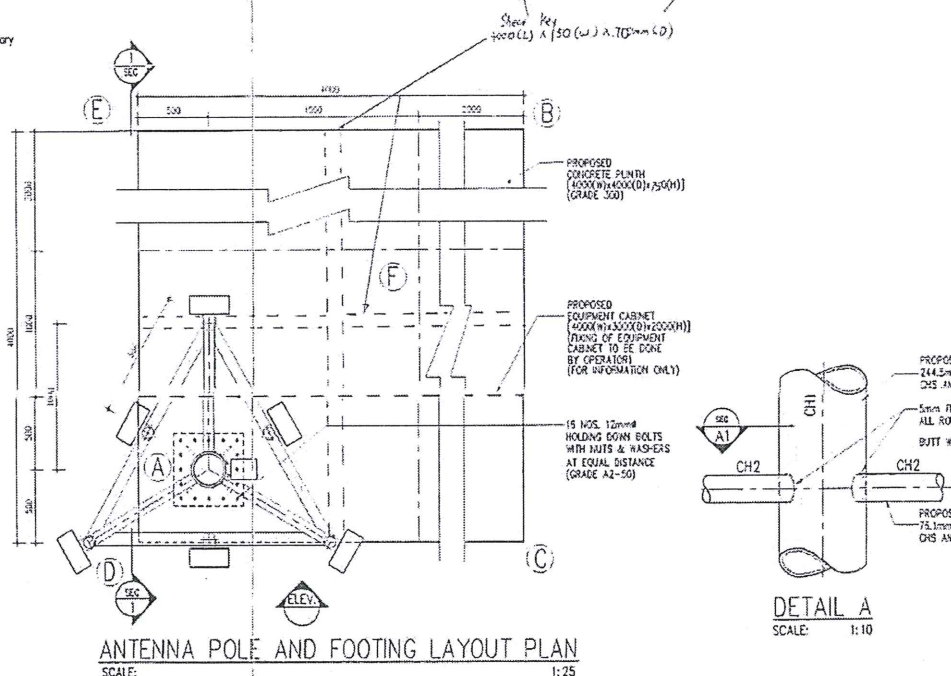
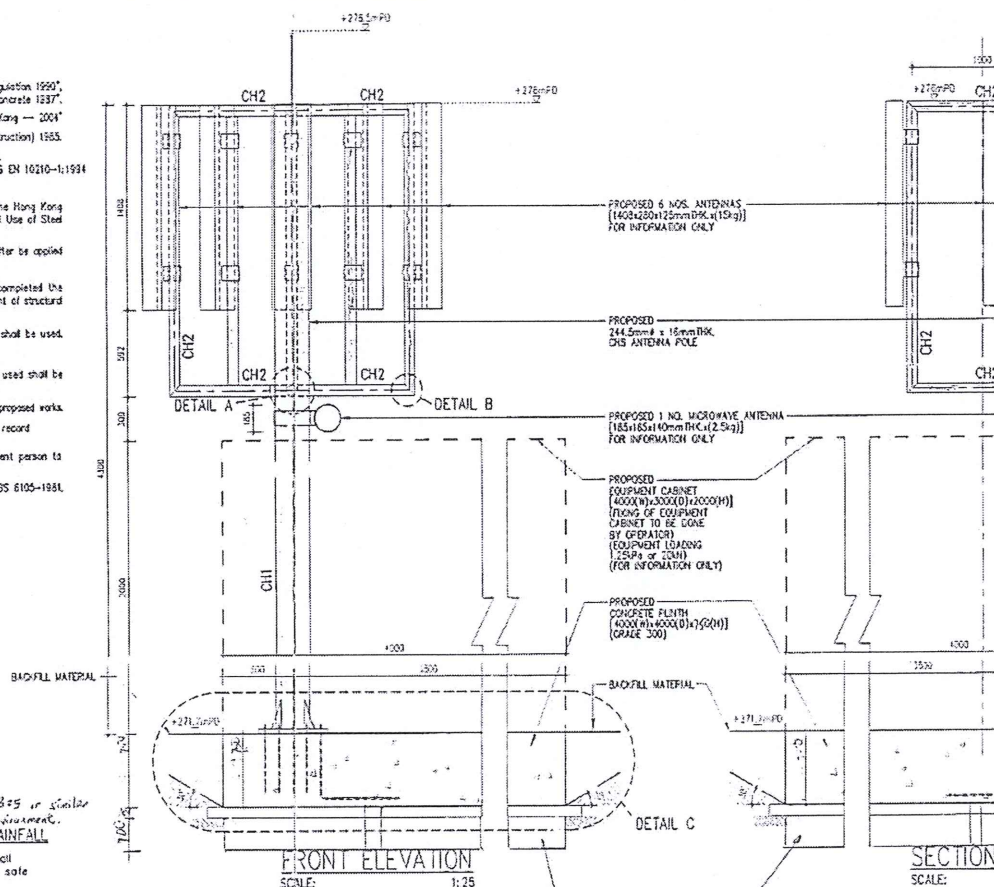
SCHEDULE OF STEEL MEMBERS FOR ANTENNAS

MARKS	SIZES
CH1	244.5mm x 13mm THK. CHS STEEL POLE
CH2	76.1mm x 5mm THK. CHS STEEL POLE

R.C. FOOTING FOR MOBILE NETWORKS ANTENNAS

SIZES	TOP & BOTTOM BARS
4000(W) x 4000(D) x 500mm(H)	Y12 @ 150mm c/c (T & B) BOTH WAYS
CONCRETE MIX : GRADE 300	

BASE PLATE	500 x 500 x 30mm THK. G.W.S. BASE PLATE
HOLDING DOWN BOLTS	12mm S/S HOLDING DOWN BOLTS WITH NUTS AND WASHERS (GRADE A2-50 TO BS 6105) = 16 NOS



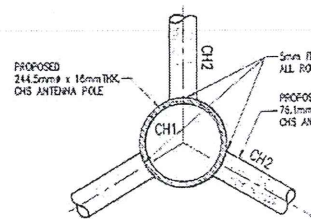
COMPRESSION

1. The in-situ field dry densities of compacted materials shall not be less than 95% of the Maximum Dry Density described

TABLE 1

DESCRIPTION	SIZE OF AREA OF FILL IN BATCH #	NO. OF DETERMINATIONS PER BATCH
FILL IN EXCAVATIONS	0-100m ³	3
	100-500m ³	2 FOR EACH 100m ³ OF PART THEREOF
	EXCEEDING 500m ³	1 FOR EACH 100m ³ OF PART THEREOF

* A BATCH OF FILL MATERIAL IS ANY QUANTITY OF FILL MATERIAL OF THE SAME TYPE AND HAS SIMILAR PROPERTIES THROUGHOUT.



SECTION A1
SCALE: 1:20

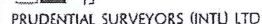
F.S.D.REF :

NOTES:

1. WORK FROM REQUIRED DIMENSIONS ON.
2. ALL DIMENSIONS SHALL BE OBTAINED ON SITE BY THE CONTRACTOR.
3. THIS DRAWING SHALL BE READ IN CONNECTION WITH RELEVANT SPECIFICATIONS, CONDITIONS OF CONTRACT AND ALL OTHER RELEVANT DOCUMENTS OF THE CONTRACT.
4. ANY REGISTERED STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY FOUND THEREIN.
5. THIS DRAWING IS NOT VALID FOR CONSTRUCTION OR OTHER PURPOSES UNLESS IT HAS BEEN SIGNED BY THE REGISTERED PERSON A REGISTERED STRUCTURAL ENGINEER.
6. ALL WORK SPECIFIED ON THIS DRAWING SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH PROVISIONS OF THE BUILDING ORDINANCE AND REGULATIONS.
7. COPYRIGHT OF THIS DRAWING IS RESERVED BY THE AUTHORIZED PERSON A REGISTERED STRUCTURAL ENGINEER.
8. ANY REUSE OF THIS DRAWING MAY BE PROSECUTED WITHOUT HIS WRITTEN CONSENT.

1	1. GENERAL NOTES REVISED	09/03/09
	2. COMPACTION TABLE ADDED	
	3. LEVEL AND LOADING ADDED	
	4. MOUNTING DETAILS REVISED	
	5. CO-ORDINATION REVISED	

CONSULTANT :



TEL. 75078333

FAX: 25986576

AUTHORIZED PERSON &
REGISTERED STRUCTURAL ENGINEER :

Dennis W.C. Wong
BSc (Hons), MSc, MPhil, PhD,
MACE, MInst, RPS, RPE,
Authorized Person
Registered Structural Engineer

PROJECT TITLE:

PROPOSED RADIO BASE STATION AT
LANTAU SOUTH COUNTRY PARK,
NAM SHAN, PUI O,
LANTAU ISLAND
(STT CX 1324)

DRAWING TITLE :

GENERAL NOTES, LOCATION MAP,
SITE PLAN, LAYOUT PLAN
FOR FOUNDATION AND
ANTENNA MOUNTING DETAILS

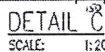
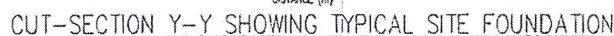
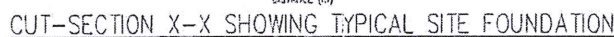
FLING CODE:
T: \B2302\ (5) 8D\
DETAIL

STATUS : RESUBMISSION

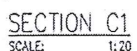
APPROVED SEAL:
Plan Approver

SHUM Luk-cheung
Chief Building Surveyor
for BUILDING AUTHORITY

- 7 APR 2009



TYPICAL R.C. FOOTING DETAILS FOR ANTENNAS



SCALE: 1:20

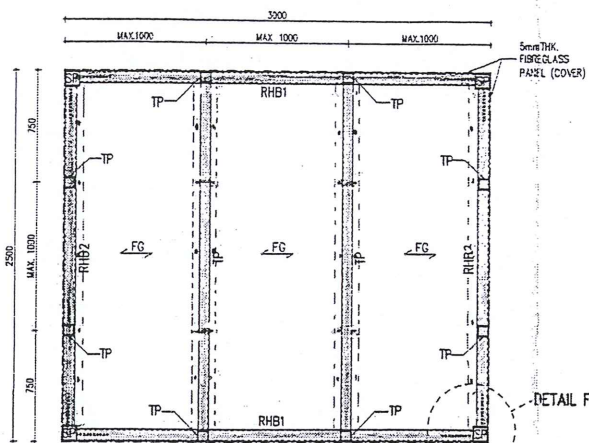
DETAIL B
SCALE: 1:10

13

WORK FILE

附件六

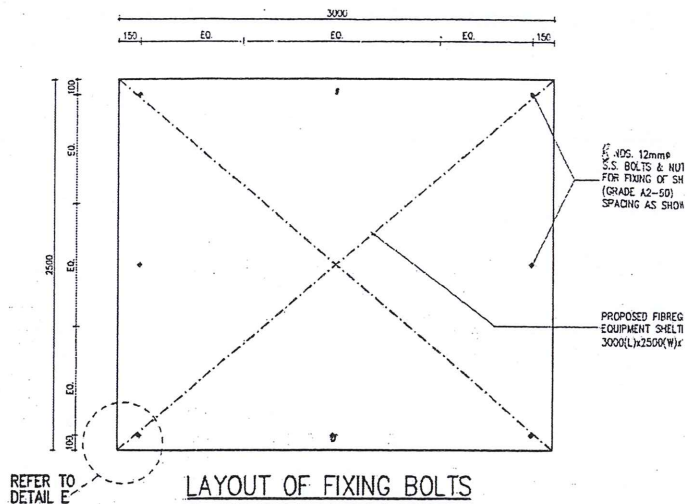
電訊設備詳圖



TOP FRAMING PLAN

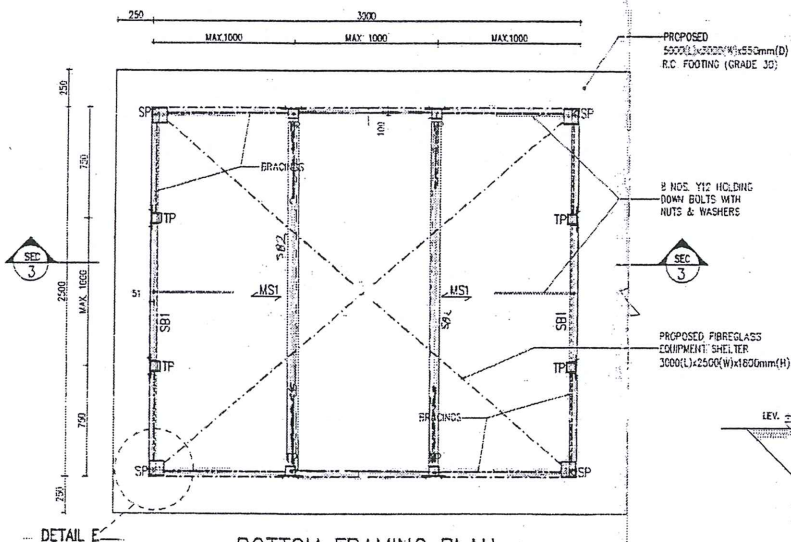
SCALE: 1:25

Roof loading of equipment = 0.75 KPa



LAYOUT OF FIXING BOLTS & NUTS FOR SHELTER

SCALE: 1:25



BOTTOM FRAMING PLAN

SCALE: 1:25

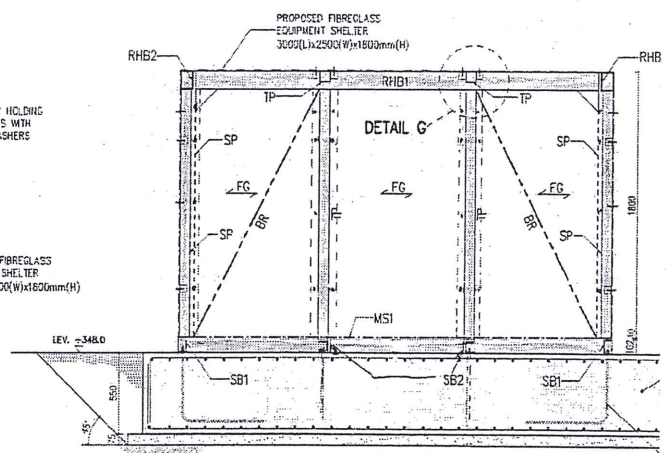
EQUIPMENT SHELTER MOUNTING DETAILS

Dead load Equipment = 45.09 kN (6.01 KPa)

Live load of Equipment = 1.5 KPa

SCHEDULE OF STRUCTURAL FRAMES

MARKS	SIZES
SB1, SB2	102 x 51 x 10.42kg/m STEEL CHANNELS
MS1	10mm THK. G.M.S. PLATE
HOLDING-DOWN BOLTS	Y12 HOLDING DOWN BOLTS WITH NUTS & WASHERS = 10 NOS
FIXING BOLTS & NUTS	12mm S.S. FIXING BOLTS & NUTS = (8 NOS.)



SECTION 3-3

SCALE: 1:25

SCHEDULE OF STEEL MEMBERS FOR SHELTER

MARKS	SIZES
SP	100 x 100 x 8mm THK. RHS (POST)
TP	70 x 70 x 8mm THK. RHS (VERT. MEMBERS)
RHB1 & RHB2	100 x 60 x 8mm THK. RHS
BR	45 x 45 x 6mm THK. STEEL ANGLE (BRACINGS)
FG	7mm THK. FIBREGLASS PANEL

* WELDING TO BE 4mm FILLET WELD UNLESS OTHERWISE STATED.

Fibreless installation in accordance to manufacturer's recommendations

RECEIVED BY
2008 AUG 29 P 3 34
F.O. SHELTER
EQUIPMENT SHELTER

STATUS: 1ST SUBMISSION