PROPOSED INSTALLATION

OF

INTEGRATED MOBILE PHONE BASE STATION

AT

TAI LONG AU

SAI KUNG EAST COUNTRY PARK

TAI PO,

NT

PROJECT PROFILE

HONG KONG CSL LIMITED

Prepared by: Prudential Surveyors Int'l Ltd

APRIL 2007

Basic Information

Project Title

1. Proposed Installation of Integrated Mobile Phone Base Station at Tai Long Au, Sai Kung East Country Park, Tai Po, NT.

Purpose and Nature of the Project

2. This project is a joint development of all the mobile phone operators to improve the mobile phone coverage for visitors of the country park and to ensure that tele-communications for the general public is maintained in case of emergency.

Name of Project Proponent

3. Hong Kong CSL Limited.

Location and Scale of the Project

- 4. The integrated mobile phone base station is proposed at Tai Long Au, Sai Kung East Country Park, Tai Po, N.T as shown on the location plan at **Appendix I**. The station will comprise of an equipment platform [7.9m (l) x 4.0m (w) x 1.0m (D)] with an area of 31.6 square metres. The equipment platform, consisting of seven (7) mobile phone equipment cabinets and three (3) antenna poles of 10 metres high, will be erected on the hill top at level 214mPD. The equipment platform will be constructed of ready mixed cast in-situ concrete which will be transported to the proposed area by helicopter. All the construction material, equipment and wastes, etc., will be transported to and away from the site by helicopter and not by hand. No haul road will be constructed.
- 5. Lands Department has agreed to the establishment of an integrated mobile phone base station at the proposed location. The relevant project leader, namely Hong Kong CSL Limited, has already accepted District Lands Office's offer of a Short Term Tenancy (STT No.1411) (A copy of the Short Term Tenancy and its Location Plan is at Appendix II)

Public utilities such as electricity supply and telecommunication lines will be installed for the integrated mobile phone base station.

6. The radio coverage and the impact on the environment are the salient factors in the site selection process. The proposed site is considered to provide significant radio coverage to the surroundings. Other alternatives have also been considered, but were found unsuitable.

Number and Types of Designated Projects to be Covered

7. The project involves an integrated mobile phone base station to be installed at the proposed location as shown in **Appendix I**. According to EIAO Schedule 2, PART I, Section Q.1, the proposed project is a designated project as it involves building works in an existing country park and it is not under exceptional cases in Section Q1 (a) to (j).

Name and Telephone Number of Contact Person

8. The contact person for this project is Mr. Terry Yeung of Hong Kong CSL Limited, telephone number 2888 3734 and facsimile number 2962 5144.

Outline of Planning and Implementation Programme

Planning and Implementation

- 9. The project is planned and managed by Hong Kong CSL Limited and there will be a total of six (6) mobile phone networks to be installed at the proposed station.
- 10. Upon the grant of a short term tenancy and environmental permit by the District Lands Office and Environmental Protection Department respectively and consent to commence building works by the Buildings Department, CSL, will start and complete the construction work in accordance with the work schedule. The proposal had been submitted to Buildings Department (BD) for approval under the Buildings Ordinance on 2nd March 2007 and is expected to be approved by BD in early May 2007. Through BD's control processing system, no adverse comment or objection had been expressed by relevant government departments including District Planning Office (DPO), Water Supplies Department (WSD), Director of Agriculture, Fisheries and Conservation (DAFC), Drainage Services

Department (DSD), District Lands Office (DLO) and Architectural Services Department (ASD).

Work Schedule

10. The construction work including the equipment and antennas installation is proposed to commence in July 2007 and to be completed by the end of August 2007. It is proposed that the mobile phone station will be put into operation in the first quarter of September 2007. The proposed work schedule is given at **Appendix III**.

It is anticipated the excavated material will be transported off the site immediately by helicopter. Also the exposed excavated surface will be immediately screeded with cement/sand or binding layer to make the surface impervious. Furthermore, the excavated area will be covered completely prior to concreting to minimize the possibility of surface run off from the site

Possible Impact on the Environment

Construction Impacts

- 11. The landscape and visual impact during construction and after completion of work is considered and addressed in paragraph 21.
- 12. Noise emission during the construction and on completion of the projects is considered to be minimal and addressed in paragraph 22.
- 13. Disposal of waste including some surplus construction material and some general refuse is considered minimal and addressed in paragraph 23.
- 14. Dust impact from construction activities is considered to be minimal and is addressed in paragraph 24.
- 15. Earthworks operation is not required as the excavation depth is less than 1000 mm and there will be no blasting operation.
- 16. Night-time work is not required for the construction of the project.
- No ecological impact is anticipated during the construction and on completion of the project.

Operational Impacts

18. Completion of the Integrated Mobile Phone Base Station will not cause any significant change to the environment. The site layout plan, section and typical detail of the proposed integrated mobile phone station and photographs are shown in **Appendix IV** to illustrate the appearance of the Integrated Mobile Base Station.

Major Elements of the Surrounding Environment

19. The major elements of the surrounding environment are as follows:-

Countryside setting

The proposed site comprises of an equipment platform situated on the hill of the Country Park. Bush and grass are scattered around the proposed site. To the north of the equipment platform is an existing slope. An existing Water Services Department (WSD) Fresh Water Tank is located at about 0.5m away from the southern edge of the equipment platform. To the east of the equipment platform is ICAC reserved area. To the west of the equipment platform are underground pipes belonging to WSD. No streams are found near the site. Furthermore, no radiation monitoring station, air sensitive receiver, noise sensitive receiver and ecological sensitive receiver or heritage sensitive receiver is located in the surrounding environment. Therefore, the installation will not affect the present setting of the Countrypark.

The site is surrounded by bushes and grass, which is commonly found in Hong Kong. No tree is required to be felled to provide the necessary area for the installation of the proposed base station.

Environmental Protection Measures to be Incorporated in the Design and any Further Environmental Implications

20. The site layout and building design will incorporate the comments of Country and Marine Park Authority. In order to further avoid the visual impact of the station, the antenna poles will be painted or coated in "Antique" (B.S. 10B25 or **Pantone 462U)** or similar subdue colour to match the surroundings and to the

satisfaction of the Country and Marine Parks Authority. As for the landscaping, all temporarily disturbed areas should be reinstated to their original states with hydroseeding of grasses and/ or vegetated planting.

- 22. Only hand held equipment will be used for construction, heavy equipment will not be used. Also noise sensitive receiver is more than 600m away from the site. Therefore, noise impact is anticipated to be minimal during the construction. Nevertheless, construction activities will be carried out in daytime (9:00-19:00). Since there will be hikers enjoying their recreational activities in the Country Park at the weekend and public holidays, no construction work will be scheduled on Saturday, Sunday and public holidays in order to minimize the impact on the hikers.
- 23 All the construction material, equipment and wastes, etc., will be transported to and away from the site by helicopter and not by hand.
- 24 The site will be completely water down to minimize any dust that may be generated during the construction stage.
- 25 The Standard Pollution Mitigation Measures will be incorporated in relevant works contracts during the construction phase of the works. The operation of the proposed sites is unmanned and will not generate noise nor have any effect on air quality and water quality.
- 26 The operation of the proposed Integrated Mobile Phone Base Station will strictly comply with the "Code of Practice for the Protection of Workers and Members of Public Against Non-Ionizing Radiation Hazards from Radio Transmitting Equipment" issued by OFTA. The proposed location of the station is quite remote from the area for inhabitancy. Furthermore, the location of the emitter of the station is at least 10 metres above the human head pointing away from any human activities or inhabitance. In this case, the non-ionizing radiation has no significant impact on the public.
- 27 The Integrated Mobile Base Station will be cleaned and painted every year if necessary to maintain the good condition of the site. Except in case of any troubleshooting and emergency repair, the periodic inspection will only be carried out every three months in the first year and once a year afterwards. The low inspection frequency will therefore not give any significant impact on the

environment.

APPENDICES

Appendix I Site Location Plan

Appendix II Provisional Plan from District Lands Office

Appendix III Proposed Work Schedule

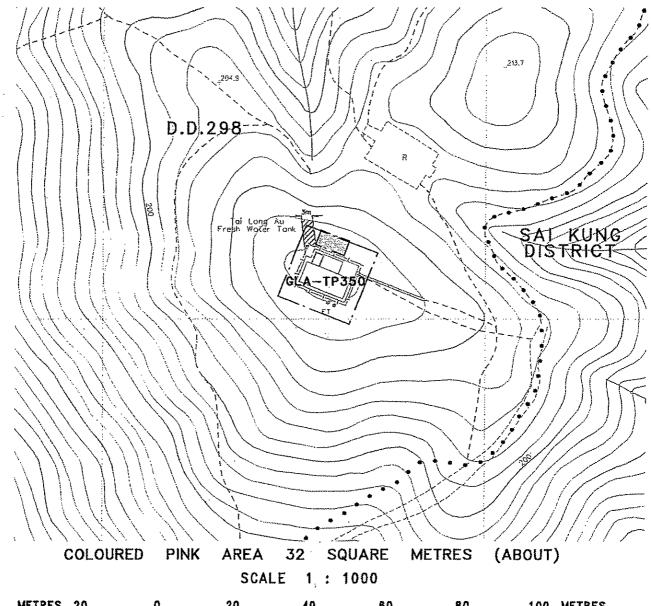
Appendix IV Site Layout Plan, Section, Typical Detail and Site Photo

Appendix I Site Location Plan

(Tai Long Au, Sai Kung East Country Park)

Appendix II Provisional Plan from District Lands Office

SHORT TERM TENANCY No.1411 TAI PO, NEW TERRITORIES



METRES 20 40 60 80 100 METRES

LOCATION SCALE 1 : 20000

LEGEND



WATER WORKS RESERVES

DRAFT

FOR IDENTIFICATION PURPOSES ONLY



District Lands Office, Tai Po Lands Department

Plan Prepared by District Survey Office, Tal Po

File No. DLO/TP 130/TAT/66

Survey Sheet No. 8-NE-16C

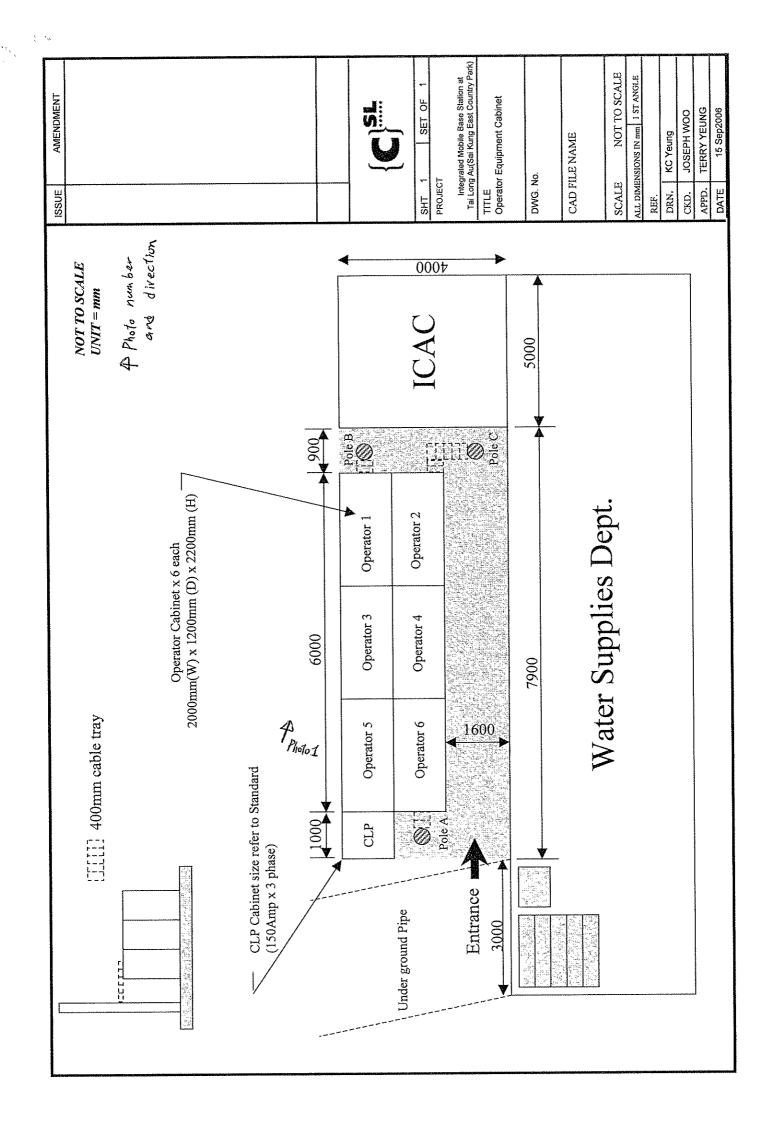
Layout Plan No. ----Reference Plan No. ----

PLAN No TPM4601-C

Appendix III Proposed Work Schedule

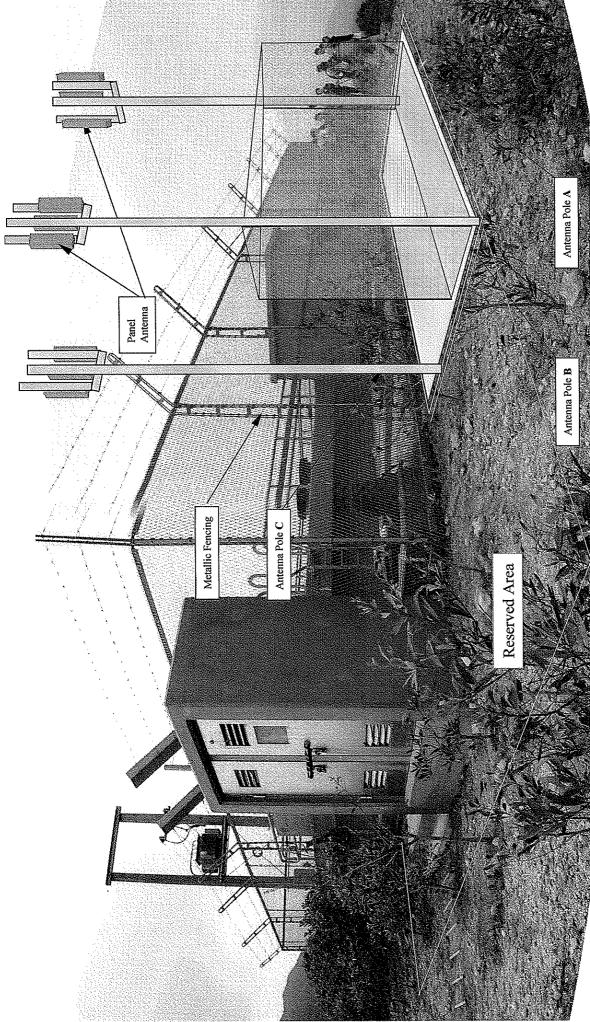
Task Name Submission for approval by Buildings Department (BD) Submission for approval by Buildings Department (BD) Submission for approval by Buildings Department (BD) Submission to apply directly for Environmental Permit (EP) Submission to District Lands Office (DLO) Submission from EA for apply for EP directly Apply for consent and submission of SSP Notification of commencement of work Mobilization Construction of footing Testing and Commission Testing and Commission Task Milestone Summary Summary Summary Summary Summary Summary		Apr 12 '07 May 26 '07	May 1 '07 Jun 29 '07	May 27 '07 May 31 '07	Jun 1 '07' Jun 30 '07	May 1 '07 May 30 '07	70, 7 lul 707 1 lul	Jul 8 '07 Jul 14 '07				Aug 26 '07 Aug 30 '07
and the same and t	Duration				30 days	30 days		7 days	21 days	14 days	7 days	5 days

Appendix IV Site Layout Plan, Section, Typical Detail and Site Photo





Picture 1: Location of the Open Equipment Platform



Operator Equipment Cabinet and Antenna Location

