

**PROPOSED INSTALLATION  
OF  
INTEGRATED  
MOBILE PHONE BASE STATION  
AT  
TWISK MANAGEMENT CENTRE  
WITHIN TAI LAM COUNTRY PARK,  
TSUEN WAN  
  
PROJECT PROFILE**

**SMARTONE MOBILE COMMUNICATIONS LIMITED**

**Prepared by: Prudential Surveyors Int'l Ltd**

**November 2004**

## **Basic Information**

### **Project Title**

1. Proposed Installation of Integrated Mobile Phone Base Station at Twisk Management Centre within Tai Lam Country Park, Tsuen Wan.

### **Purpose and Nature of the Project**

2. Since the Pat Sin Leng Hill Fire, an inter-department Investigation Team has recommended to encourage mobile phone operators to provide full coverage of their services in the countryside. This project is therefore a joint development of all the mobile phone operators with Government to improve the mobile phone coverage in order to provide alternative communication means to visitors in the country park.

### **Name of Project Proponent**

3. SmarTone Mobile Communications Limited

### **Location and Scale of the Project**

4. The integrated mobile phone base station is proposed to be built in Tai Lam Country Park as shown on the location plan at **Appendix I**. It will occupy an area of 82.5 square metres [11m (l) x 7.5m (w)]. There will be fences surrounding the base station in which ten (10) mobile phone equipments, two aerial poles of 15 metres high and one small house of 2 metres high for public utilities will be erected.
5. Lands Department has agreed to the establishment of an integrated mobile phone base station at the proposed location. The relevant project leader, namely SmarTone Mobile Communications Limited has accepted District Lands Office's offer of a Short Term Tenancy (STT No.1254 TW) (A copy of the Short Term Tenancy Location Plan is at **Appendix II**)

6. Public utilities such as electricity supply and telecommunication lines will be installed for the integrated mobile phone base station.
7. 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 surrounding. Other alternatives have also been considered. However, the other locations would either provide inferior radio coverage or have more impact on the environment especially the laying of power and telephone facilities for the operation of the Integrated Mobile Phone Base Station (Please refer to Electricity and Telephone Cables Routings Plan at **Appendix III**)

### **Number and Types of Designated to be Covered**

8. 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**

9. The contact person for this project is Mr. Ryan Wong of SmarTone Mobile Communications Limited, telephone number 2597 6552 and facsimile number 2597 6560.

### **Outline of Planning and Implementation Programme**

#### **Planning and Implementation**

10. The project is planned and managed by SmarTone Mobile Communications Limited and there will be a total of eleven (11) mobile phone networks to be installed at the proposed location.
11. Upon the grant of short term tenancy and environmental permit by the District Lands Office and Environmental Protection Department respectively, the project leader, SmarTone, will start and complete the construction work in accordance with work schedule.

## **Work Schedule**

12. The construction work including the equipment and antennas installation is proposed to commence in mid-January 2005 and to be completed in April 2005. It is proposed that the mobile phone station will be put into operation in May 2005. The proposed work schedule is given at **Appendix IV**.

## **Possible Impact on the Environment**

### **Construction Impacts**

13. The landscape and visual impact during construction and after completion of work is considered and addressed in item no. 23.
14. Noise emission during the construction and on completion of the projects is considered to be minimal and addressed in item no. 24.
15. Disposal of waste including some surplus construction material and some general refuse is considered minimal and addressed in item no. 25.
16. Dust impact from construction activities is considered to be minimal and is addressed in item no. 26.
17. Earthworks operation is not required as the excavation depth is less than 600mm and there will be no blasting operation.
18. Night-time work is not required for the construction of the project.
19. No ecological impact is anticipated during the construction and on completion of the project.

### **Operational Impacts**

20. In order to reduce the visual intrusion, the proposed site is situated away from prominent roadside and virgin hilltops. For the tree felling works, the proponent (SmarTone Mobile Communications Limited) will follow the following guidelines:

- (a) irreplaceable rare tree species will not be felled;
- (b) tree felling, if any, will not cause serious environment impact;
- (c) all tree felling works are of genuine development need; and
- (d) compensatory planting, to the satisfaction of Country and Marine Parks Authority will be undertaken (to comply with the special condition in the Short Term Tenancy (STT No.1254 TW)).

The tree survey report for the tree to be felled is at **Appendix V**.

21. Completion of the Integrated Mobile Phone Base Station will not cause any significant change to the environment. The site layout plan, isometric view of site and photographs are shown in **Appendix VI** to illustrate the appearance of the Integrated Mobile Base Station.

### **Major Elements of the Surrounding Environment**

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

#### Countryside setting

The proposed site is situated on top of a hill and shielded by trees from the picnic area of the Country Park. Adjacent to the East of the site is a footpath leading to top of the hill. To the North of the site at about 25 metres away there is a staff quarter of Agriculture, Fisheries and Conservation Department comprise of four single storey buildings. At approx. 60 metres to the North-east is Twisk Management Centre consist of three single storey buildings whereas 60 metres to the South is the picnic area of the Country Park. The proposed site is shielded and screened by trees on all sides and barely visible from the public. There is no existing or planned noise sensitive receiver located in the surrounding environment. Furthermore, no radiation monitoring station, 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.

#### Surrounding by trees

The site is surrounded by trees and 16 nos. of tree (7 nos. of Pinus Massoniana and 9 nos. of Acacia Confuse) in the proposed site area which are commonly found in Hong Kong would be unavoidably to be felled to provide the necessary area for the installation of the proposed base station. The survey report for these trees is attached in **Appendix V** for reference. Compensatory planting will be provided if necessary.

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

23. 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 equipment and the antenna pole will be painted in subdued colour to match the surroundings.
24. Although noise impact is anticipated to be minimal during the construction, construction activities will be carried out in daytime as far as possible (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.
25. The sites will be screened by temporary hoarding during construction. The waste materials will be stockpiled inside the site area and will be removed off site as soon as possible.
26. The site will be completely watered down to minimize any dust that may be generated during the construction stage.
27. 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.
28. 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 of human activities, e.g. BBQ area and area for inhabitation. Furthermore, the location of the emitter of the station is at least 22 metres above the human head pointing away from the inhabitation. In this case, the non-ionizing radiation has no significant impact on the public.

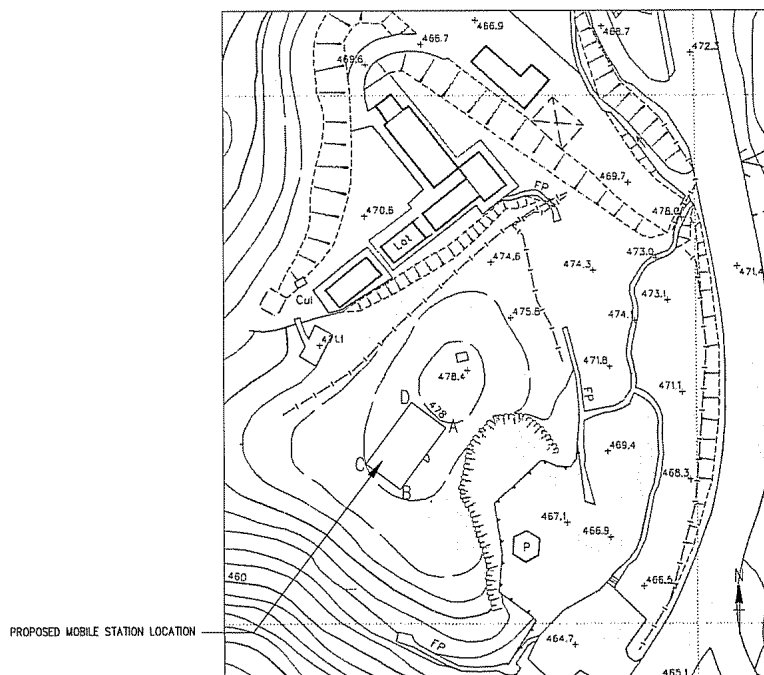
29 The Integrated Mobile Base Station will be cleaned and painted every year if necessary to maintain the good condition of the site. In case of any troubleshooting and emergency repair, the periodic inspection will only be carried out every three months in the first year and once a year afterwards. The low inspection frequency will therefore not give any significant impact on the environment.

## **Appendices**

<b>Appendix I</b>	Site Location Plan
<b>Appendix II</b>	Provisional Plan from District Lands Office
<b>Appendix III</b>	Electricity and Telephone Cables Routings Plan
<b>Appendix IV</b>	Proposed Work Schedule
<b>Appendix V</b>	Tree Survey Report
<b>Appendix VI</b>	Site Layout Plan, Isometric View Plan and Site Photo

## **Appendix I**





## LOCATION PLAN

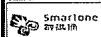
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Point	Side	Distance (meter)	Bearing (°)
A	A-B	11 000	217°
B	B-C	7 500	307°
C	C-D	7 500	37°
D	D-A	11 000	127°



PRUDENTIAL SURVEYORS INTL. LTD.  
TEL 25070333  
FAX 25986576

CLIENT:



PROJECT TITLE:

PROPOSED INSTALLATION OF INTEGRATED MOBILE PHONE  
BASE STATION AT TWISK MANAGEMENT CENTRE WITHIN  
TAI LAM COUNTRY PARK, TSUEN WAN

DRAWING TITLE:

LOCATION PLAN

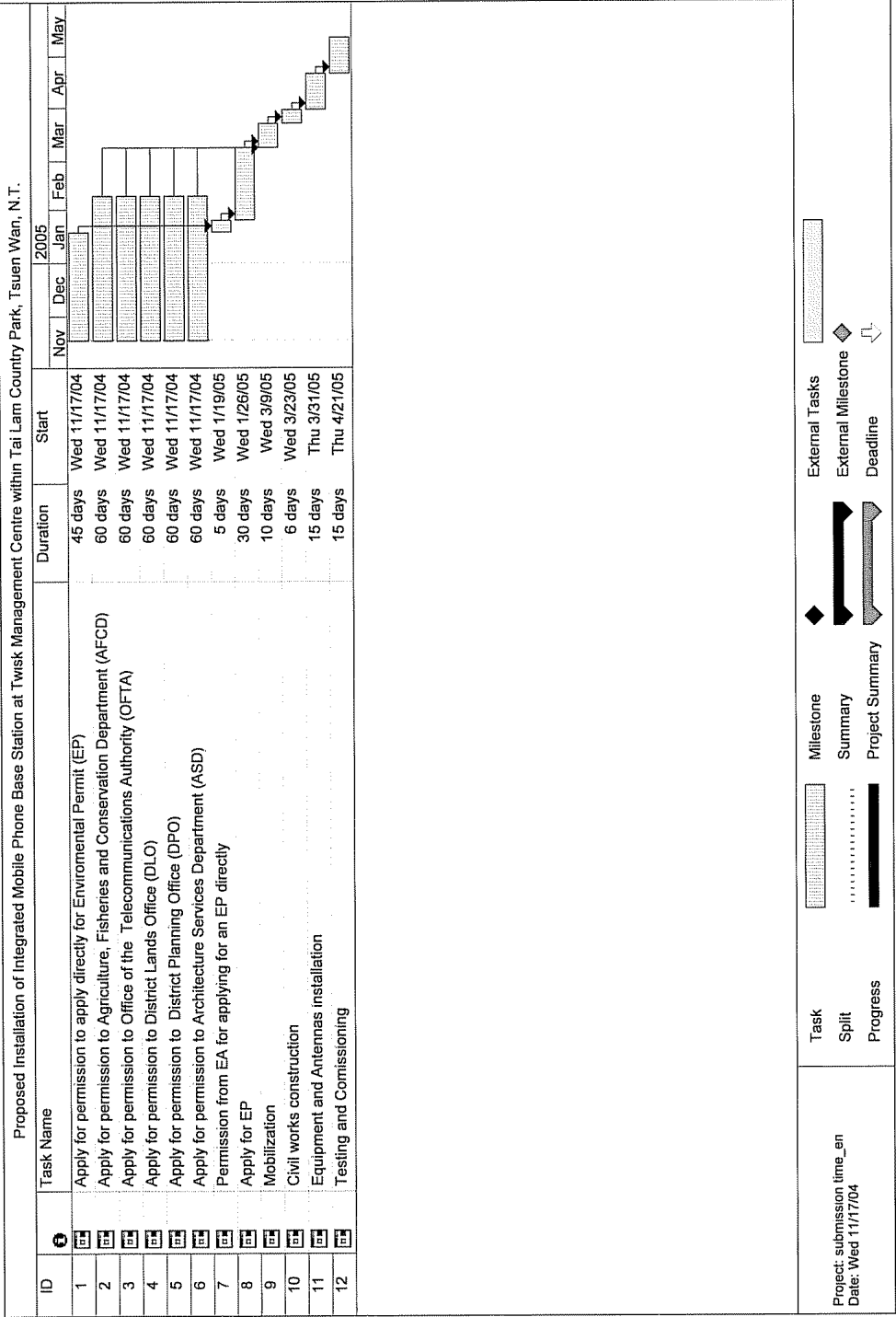
## **Appendix II**



## **Appendix III**



## **Appendix IV**



## **Appendix V**



**TREE SURVEY REPORT**

**FOR**

**PROPOSED INSTALLATION OF**

**INTEGRATED**

**MOBILE PHONE BASE STATION**

**AT TWISK MANAGEMENT CENTRE**

**WITHIN TAI LAM COUNTRY PARK**

**TSUEN WAN**

## **TREE SURVEY REPORT**

- Tai Lam Country Park

### Introduction

The site is located on a slope about 477m above datum level. This document is used to seek approval for felling of tree species within the proposed area which will be affected by the construction of the new mobile phone base station. Only existing trees of diameters exceeding 95mm are identified in this report as mentioned in WBTC No. 24/94.

### Tree Felling Works

Tree felling works proposed responds to the guideline as outlined in the Rural Planning and Improvement Strategy – Minor Projects Environmental Guidance Note Annex 3, Planning Environment and Lands Technical Circular No. 3/94 – Tree Preservation, Appendix B – Lands Administration Office Instruction – Section D-12 Part C. These guideline state that:-

- (a) No irreplaceable rare species of tree-is involved.
- (b) Felling of tree(s) will not cause a serious environmental impact.
- (c) A genuine development or traffic need to fell exists, which cannot be reasonably overcome.
- (d) Compensatory landscaping/replanting to Government's satisfaction in all tree felling cases will be undertaken.
- (e) The free flow of a watercourse is obstructed by trees in a manner likely to cause floods and damage to property or risk to life.
- (f) The tree is not unusually large or fine example of its type.
- (g) The tree is in poor condition.
- (h) When the tree(s) involved cause serious traffic safety problems in terms of sightline provision which cannot be removed by reasonable pruning.

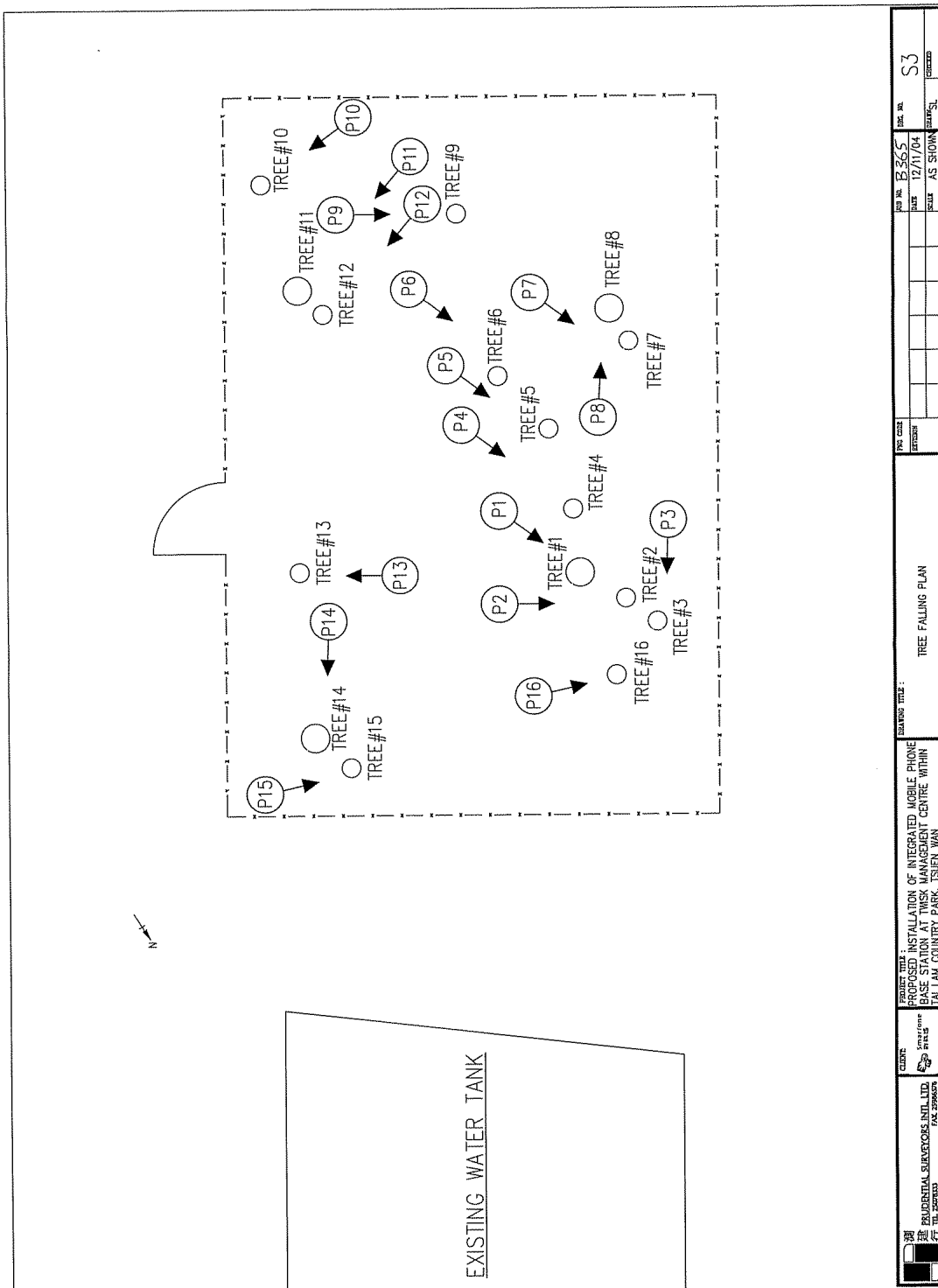
A total of 16 trees to be cut are identified with information given below:

Tree List

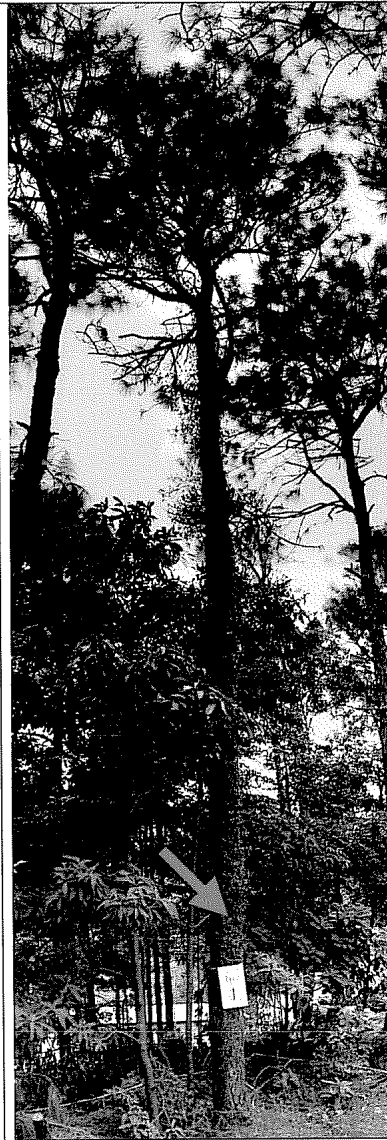
Tree No.	Botanical Name	Chinese Name	Dia. (m)	Est. Ht (m)	Spread (m)	Remarks	Proposed Status
1	Pinus Massoniana	馬尾松	0.023	9	5		Fell
2	Acacia Confuse	台灣相思	0.06	4.2	4		Fell
3	Acacia Confuse	台灣相思	20 / 40	3.2	1		Fell
4	Acacia Confuse	台灣相思	0.065	4	3		Fell
5	Pinus Massoniana	馬尾松	0.18	8.2	4		Fell
6	Acacia Confuse	台灣相思	0.05	2.5	2		Fell
7	Acacia Confuse	台灣相思	0.025	2.5	2		Fell
8	Pinus Massoniana	馬尾松	0.16	7.5	2.5		Fell
9	Pinus Massoniana	馬尾松	0.19	8.5	3		Fell
10	Pinus Massoniana	馬尾松	0.15	9	2.5		Fell
11	Pinus Massoniana	馬尾松	0.19	9	4		Fell
12	Acacia Confuse	台灣相思	0.03	2.4	1.3		Fell
13	Acacia Confuse	台灣相思	0.065	3.5	5		Fell
14	Pinus Massoniana	馬尾松	0.19	9	3		Fell
15	Acacia Confuse	台灣相思	0.08	5.5	5		Fell
16	Acacia Confuse	台灣相思	0.05	1.5	1.5		Fell

### Compensation

Striving to limit the extent of area to be occupied by the mobile phone base station, there is no unnecessary encroachment onto the surround area. Consequently, there is no available space with the station for compensatory planting. Compensatory plant in somewhere else, if required by AFCD may be carried out subject to further discussion.



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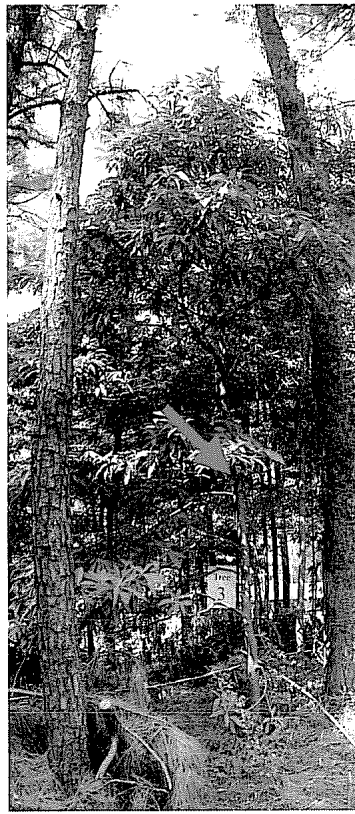
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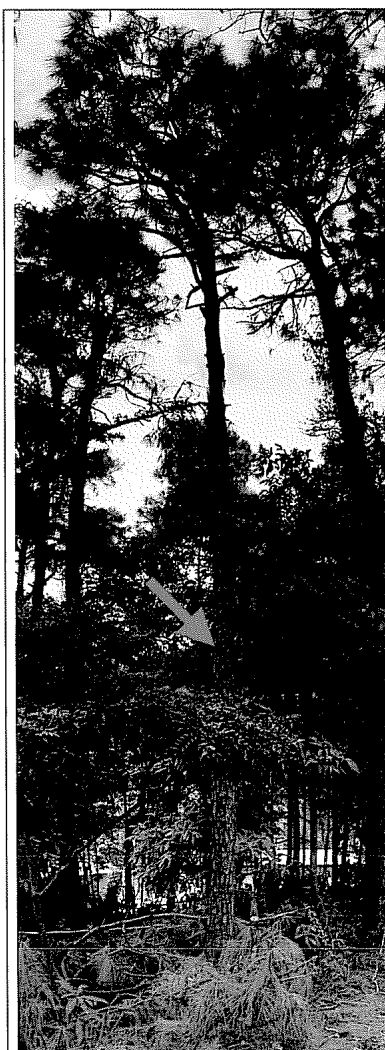
Tree 2



Tree 3



Tree 4



Tree 5



Tree 6





Tree 7



Tree 8



Tree 9



Tree 10



Tree 11



Tree 12



Tree 11



Tree 12

	
<p>Tree 13</p>	<p>Tree 14</p>

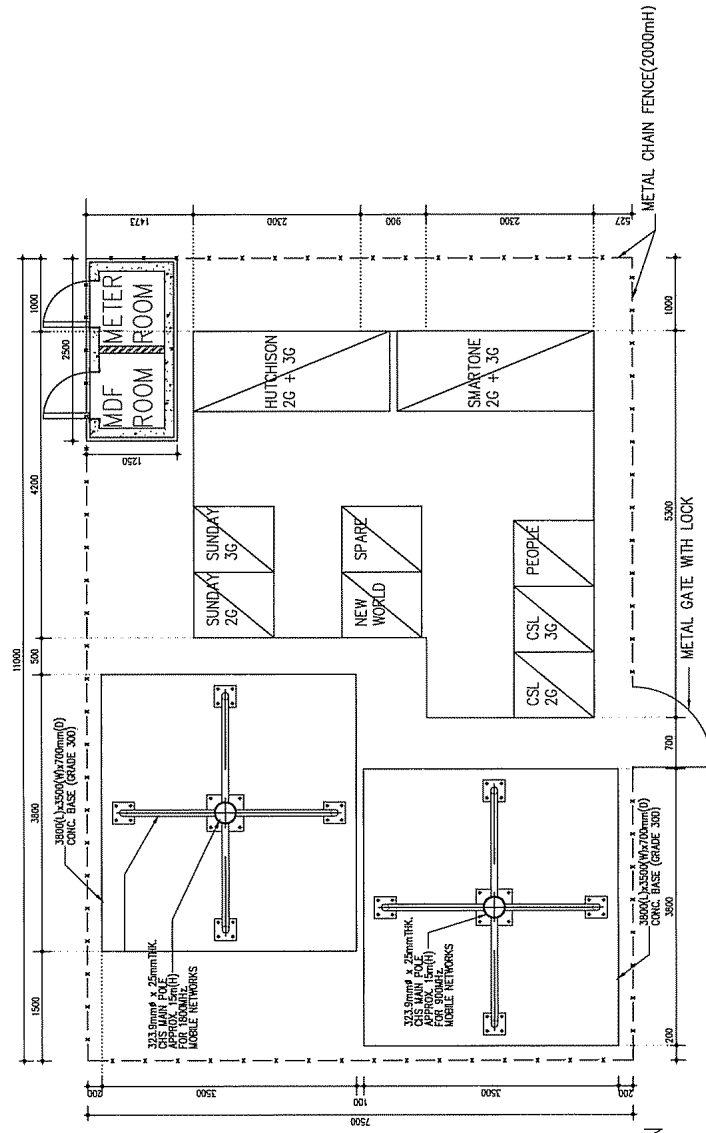


Tree 15



Tree 16

## **Appendix VI**



LAYOUT PLAN OF THE RADIO BASE STATION


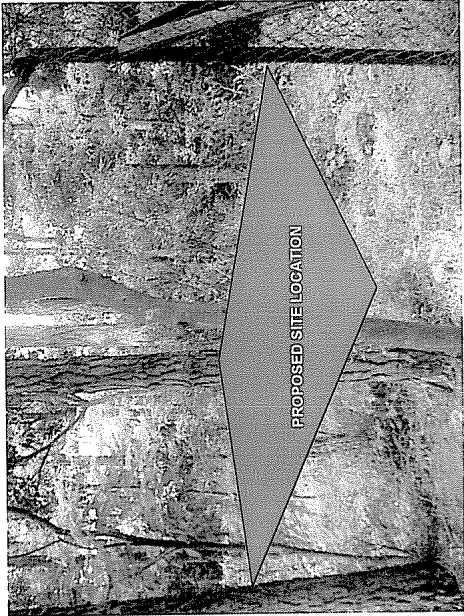

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<div> <p>PRUDENTIAL SURVEYORS INT'L LTD. TEL: 25023333 FAX: 25023333</p> </div>	<div> <p>CLIENT:</p> <p>STATIONING</p> </div>	<div> <p>PROJECT TITLE:</p> <p>PROPOSED INSTALLATION OF INTEGRATED MOBILE PHONE</p> </div>	<div> <p>DESIGNED TITLE:</p> <p>DESIGN AND CONSTRUCTION OF MOBILE PHONE CENTRE WITHIN</p> </div>	<div> <p>DESIGNED TITLE:</p> <p>LAYOUT PLAN</p> </div>	<div> <p>PRO. CODE:</p> <p>REVISION:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>	<div> <p>PRO. NO.:</p> <p>DATE:</p> </div>
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		<b>FORMING TITLE :</b> ISOMETRIC VIEW		<b>FIG CODE</b> 15/04/04	

 SmartTone 數碼通	PROJECT : <b>PROPOSED INSTALLATION OF INTEGRATED MOBILE PHONE BASE STATION AT TWISK MANAGEMENT CENTRE WITH TAI LAM COUNTRY PARK, TSUEN WAN</b>	DATE : 5 NOV 04	STATUS: 1ST SUB.
 <p>PROPOSED SITE LOCATION</p>		 <p>PROPOSED SITE LOCATION</p>	
PHOTO 1: PROPOSED SITE LOCATION		PHOTO 2: PROPOSED SITE LOCATION (VIEW FROM BBQ AREA)	