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PROJECT PROFILE

FOR PROPOSED INSTALLATION OF

INTEGRATED MOBILE PHONE

BASESTATION AT

SHING MUN COUNTRY PARK

Under Environmental Impact Assessment Ordinance (Cap.499) Section 5(1)(b) & Section 5(11)

Prepared By : SUNDAY o/b Mandarin Communications Limited
Version : 2.0
Date : 24 Feb 2000

SUNDAY & SUNDAY 1622 are services of Mandarin Communications Limited

PROJECT PROFILE OF INSTALLATION OF INTEGRATED MOBILE PHONE BASE STATION IN SHING MUN COUNTRY PARK

BASIC INFORMATION

Project title

1. Proposed Installation of Integrated Mobile Phone Base Stations at Shing Mun Country Park.

Purpose and nature of the project

2. Since the Pat Sin Leng Hill Fire, an inter-departmental Investigation Team has recommended to encourage mobile phone operators to provide full coverage of their services in the countryside. The 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 the visitors in country park.

Name of project proponent

3. SUNDAY o/b Mandarin Communications Limited.

Location and scale of project

4. The integrated mobile phone base station is proposed to be built as shown on the location drawing at Appendix 1. All base station equipment will occupy an area of 80 square metres. There will be fences surrounding the base station area. The target mobile coverage includes Jubilee (Shing Mun) Reservoir and Southern part of Shing Mun country park.
5. Country and Marine Parks Authority and OFTA have agreed to the establishment of an integrated mobile phone base station at the proposed location. The relevant project leader, namely SUNDAY o/b Mandarin Communications Limited is ready to accept District Lands Office's offer of a Short Term Tenancy (STT No.3422).
6. Public utilities such as electricity supply and telecommunication lines will be installed for the integrated base station.
7. The radio coverage and the impact on the environment are the salient factors in the site selection process. The proposed site are considered to provide significant radio coverage to the country park. Other alternatives have also been considered. However the other locations would either provide inferior radio coverage or have more impact to the environment especially the laying of power and telephone facilities for the operation of the Integrated Mobile Phone Base Station.

Number and types of designated projects to be covered

8. The project involves an integrated mobile base station to be installed at the proposed location as shown in Appendix 1. 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 EIAO Schedule 2, PART I, Section Q1(a) to (j).

Name and telephone number of contact person

- 9.

OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME

Planning and implementation

10. The project is planned by SUNDAY o/b Mandarin 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 by District Lands Office and environmental permit by Environmental Protection Department, the project leader, SUNDAY o/b Mandarin Communications Limited, will start the construction work with respect to the works schedule. The construction work including the equipment and antennas installation is proposed to be commenced in June 2000 and to be completed in January 2001. It is proposed that the mobile phone station will be put into operation in mid- February 2001 The proposed works schedule is given at Appendix 2.

Possible impact on the environment

12. The landscape and visual impact and the possible impacts of the works during construction and operation have been considered and addressed in item no.23.
13. Noise emission during the construction and on completion of the projects is considered to be minimal and addressed in item no.24
14. Disposal of waste including some surplus construction material and some general refuse is considered and addressed in item no.25.
15. Dust impact from construction activities is considered to be minimal and is addressed in item no.26.
16. This site is situated on a small piece of abandoned concrete land and thus no existing countryside setting will be affected.
17. Earthworks operation is nearly not required and there is no blasting operation.

18. Night-time work is not required for the construction of the projects.
19. The radio emission of the proposed base station will 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. Therefore non-ionizing radiation hazard to the public is not anticipated.
20. 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 effect on air quality and water quality.
21. Completion of the Integrated Mobile Phone Base Station will not cause any significant change to the environment. Unsightly visual appearance is not anticipated as the site is surrounded by trees and shrubs. The site layout plan, isometric view of site and photographs are shown in Appendix 3 and 4 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 considered as follows:

- a) Countryside setting

The site is situated away from the picnic area and the rest area of Shung Mun Country Park. Adjacent to the site is the footpath leading to top of the hill situated on either sides of the proposed station. No existing and planned noise sensitive receiver is located in the surrounding environment. Furthermore, there is a remains of Shing Mun Redoubt, which were constructed in the mid 1930's as shown in Appendix 1. However, the proposed installation work would not jeopardize the integrity of these historical military structures which are at least 300 metres away from the proposed base station. Therefore the installation will not affect the present setting of the countryside.

- b) Surrounding by trees and shrubs

This site is surrounded by trees/shrubs of a few meters tall. Tree felling is not required for this site but small scale of branch trimming for the trees/shrubs will be required to ensure the signal path of the radio antennas will not be obstructed by outgrowth of the plants.

Environmental protection measures to be incorporated in the design and any further environmental implications

23. The site layout and building design was planned with the comments of Country and Marine Park Authority incorporated. The project proponent (SUNDAY o/b Mandarin Communications Limited) will carry out tree planting around the sites (around 4 to 6 number of trees to be planted) and according to the instruction of Country and Marine Parks Authority, to screen off the base station from the adjacent footpath and to minimise the landscape and visual impact on the environment. In order to further avoid the visual impact of the station, the equipment and the antenna pole will be painted in subdued color 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 (09:00 Hrs.-19:00 Hrs.). 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 at Saturday, Sunday and public holidays in order to minimize the impact to the hikers.
25. The sites will be screened by temporary hoarding during construction. The waste materials will be stockpile inside the site area and will be removed off site as soon as possible.
26. The site will be completely water down to minimise 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 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 for human activities, e.g. BBQ area and AFD office and 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 the inhabitance. In this regard, a non-ionizing radiation hazard has no significant impact on the public is expected.
29. The Integrated Mobile Base Station will be cleaned and painted every year if necessary to maintain good condition of the site. In case of any trouble shooting 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.

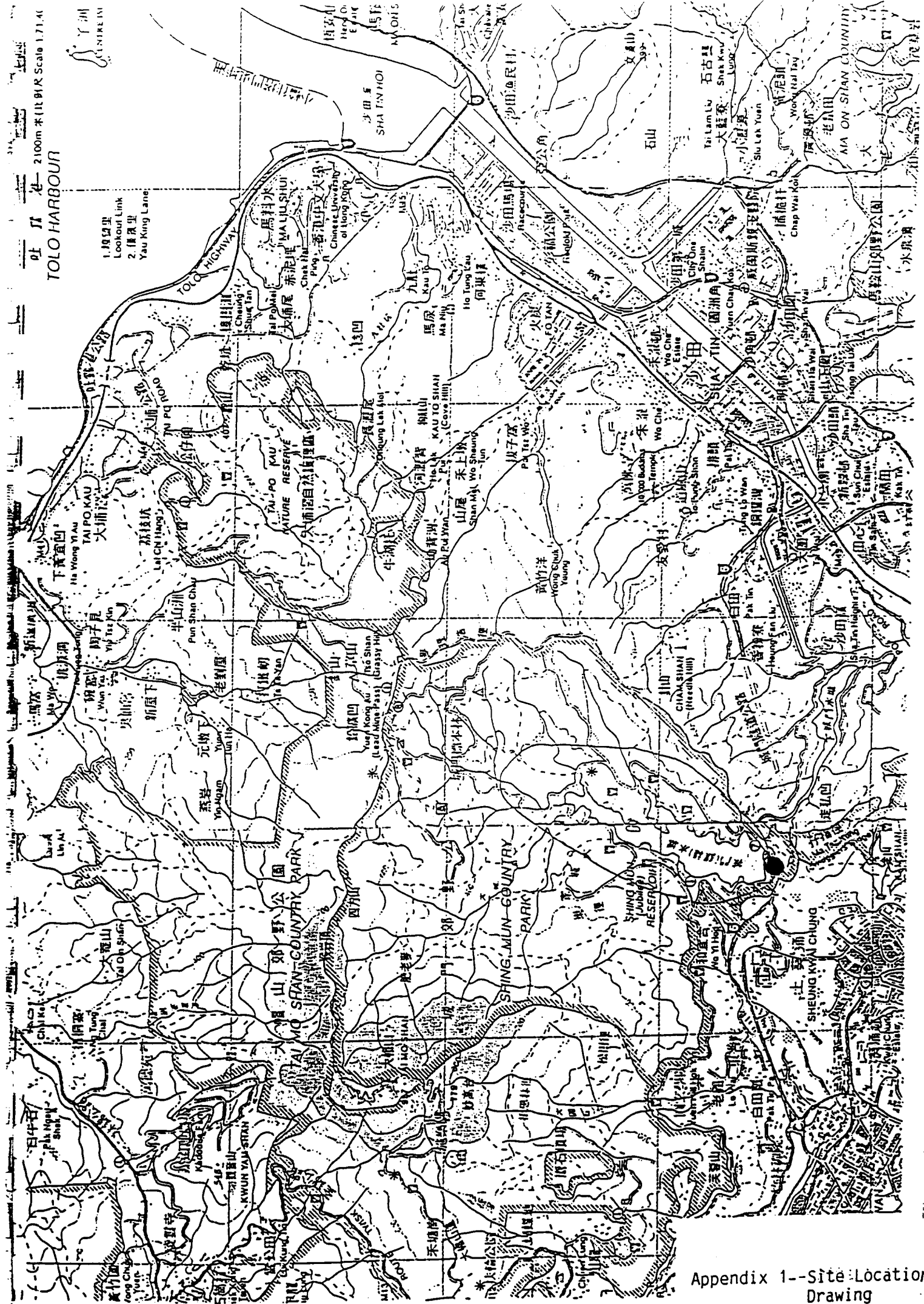
USE OF PREVIOUSLY APPROVED EIA REPORTS

30. Not applicable

Appendices

Appendix 1	Site Location Drawing
Appendix 2	Project Schedule
Appendix 3	Site Layout Drawing of the Equipment shelter and Antenna
Appendix 4	Site Photograph

Appendix 1



Appendix 1--Site Location Drawing

[illegible]

Two:

SITE LOCATION FOR SHING MUN COUNTRY PARK

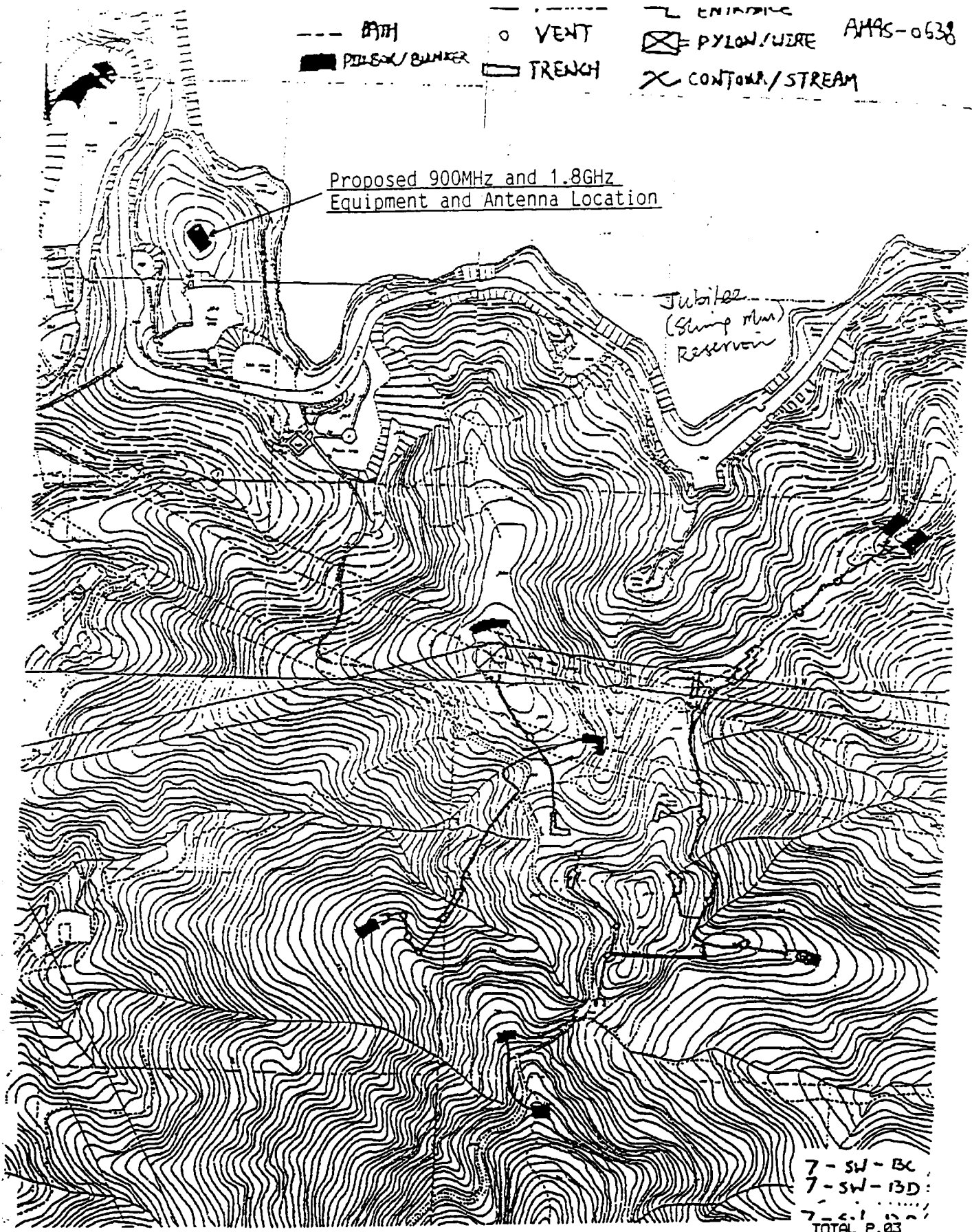
N.T.S.

10/03/1991

- PATH
- o VENT
- ENIRING
- ▣ PYLEX/BUNKER
- ▢ TRENCH
- ⊠ PYLON/WIRE
- AMAS-0638
- X CONTOUR/STREAM

Proposed 900MHz and 1.8GHz
Equipment and Antenna Location

Jubilee
(Swampy Area)
Reservoir



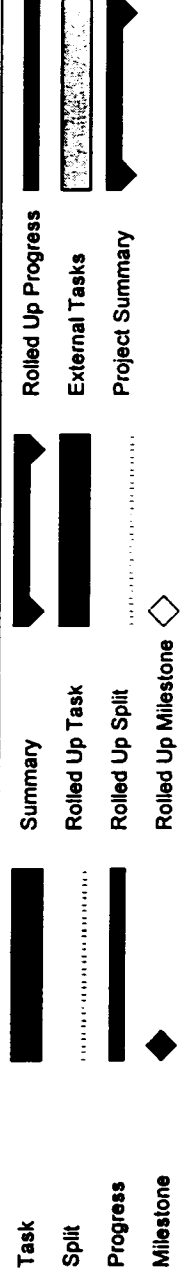
7-SW-BC
7-SW-13D
7-SW-13D
TOTAL P.03

SHING MUN Redoubt (城門碉堡)

Appendix 2

Shing Mun Country Park - Project Schedule

ID	Task Name	Duration	Start	Finish	2001											
					Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Application of Environmental Permit from EDP	8 wks	Mar 31 '00	May 25 '00												
2	Preparation of the Tenancy Agreement by District Land Office	8 wks	Mar 31 '00	May 25 '00												
3	Grant of SST by DLO & Environmental permit by EPD	3 wks	May 26 '00	Jun 15 '00												
4	Material Preparation	4 wks	Jun 16 '00	Jul 13 '00												
5	Construct Foundation	4 wks	Jul 14 '00	Aug 10 '00												
6	Electrical Facility Installation	4 wks	Aug 11 '00	Sep 7 '00												
7	Teleo Facility Installation	8 wks	Aug 11 '00	Oct 5 '00												
8	Basestation Platform & Facility Construction	12 wks	Oct 6 '00	Dec 28 '00												
9	Mobile Base-station Installation	6 wks	Dec 29 '00	Feb 8 '01												
10	Testing and Commissioning	2 wks	Feb 9 '01	Feb 22 '01												



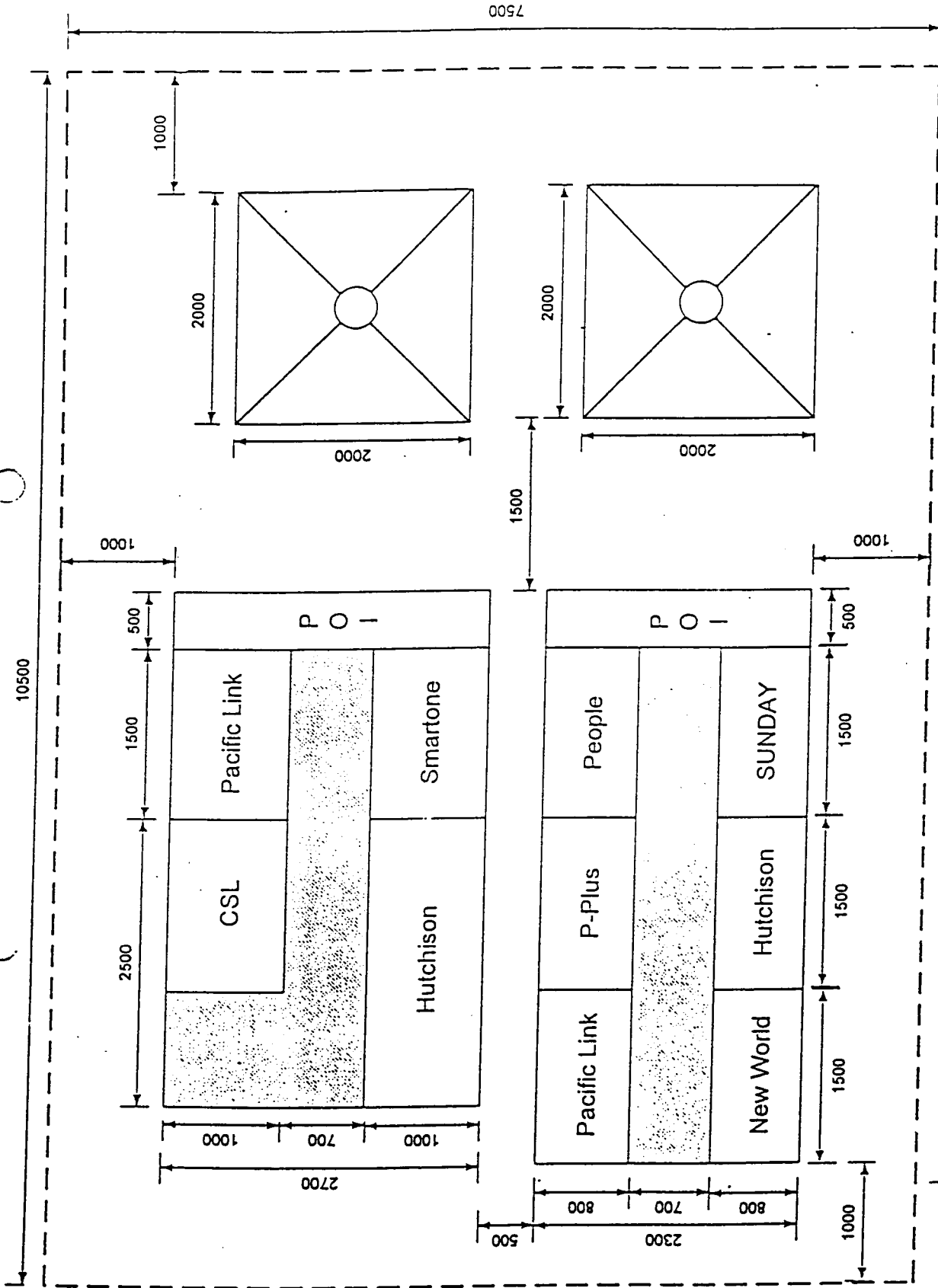
Project: Shing Mun Country Park
Date: 24 Dec 99

Task
Split
Progress
Milestone

Summary
Rolled Up Task
Rolled Up Split
Rolled Up Milestone

Rolled Up Progress
External Tasks
Project Summary

Appendix 3



Drawings No.

CP_00-E2

Title:

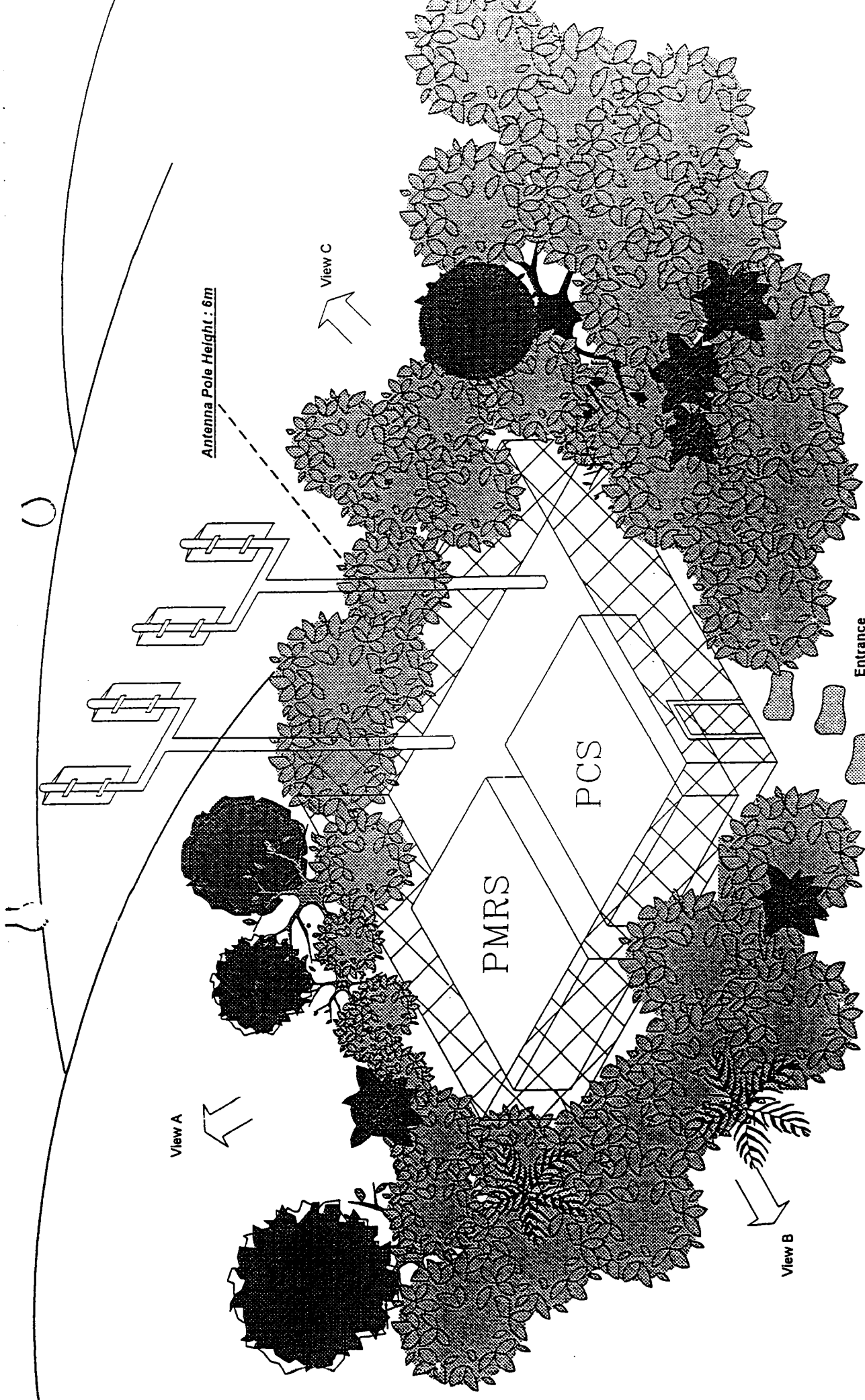
Equipment and Antenna Layout for Shing Mun Country Park

Scale:

1:50

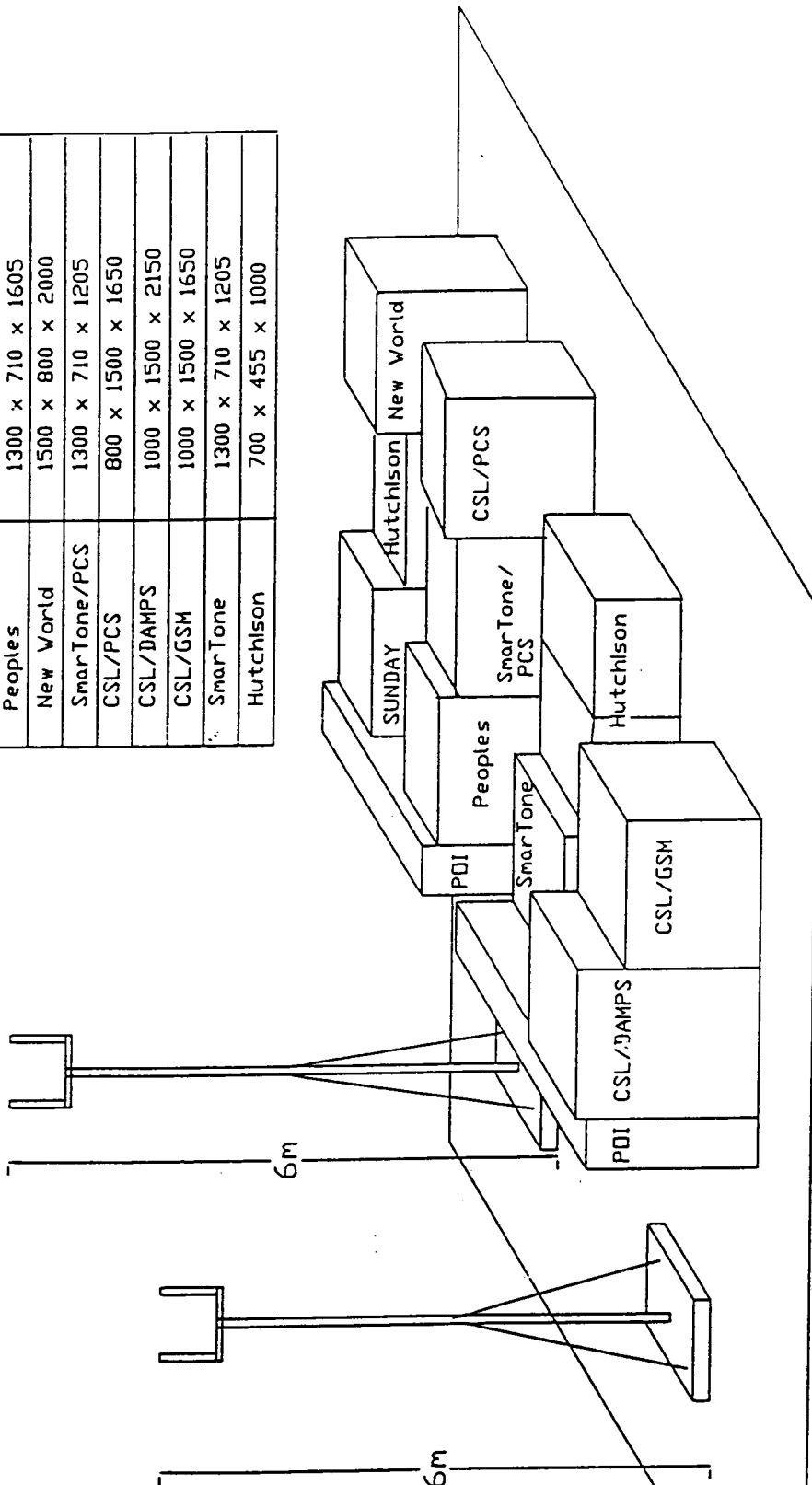
Date:

10/3/1990



Job No. 0002-A		Title: 3D Sketch of Radio Station in Shing Mun Country Park		Version A		Comments New Drawing		Date 14-05-1998		Drawn By B.C.		Engineer B.C.	
Site Name: Shing Mun Country Park		File Name: S:\NETSHARE\BILL\SHING_MUN_3D.DWG		Author: B.C.		Checked: B.C.		Date: 14-05-1998		Drawn By: B.C.		Engineer: B.C.	
Scale: N.T.S.		Annex 3 - Site Layout Drawing of the Equipment Shelter and Antenna		Title: 3D Sketch of Radio Station in Shing Mun Country Park		Version A		Comments New Drawing		Date 14-05-1998		Drawn By B.C.	

P D I	Size (W x D x H (mm))
SUNDAY	2000 x 500 x 2100
Peoples	1200 x 330 x 2000
New World	1300 x 710 x 1605
SmarTone/PCS	1500 x 800 x 2000
CSL/PCS	1300 x 710 x 1205
CSL/DAMPS	800 x 1500 x 1650
CSL/GSM	1000 x 1500 x 2150
SmarTone	1000 x 1500 x 1650
Hutchlison	1300 x 710 x 1205
	700 x 455 x 1000



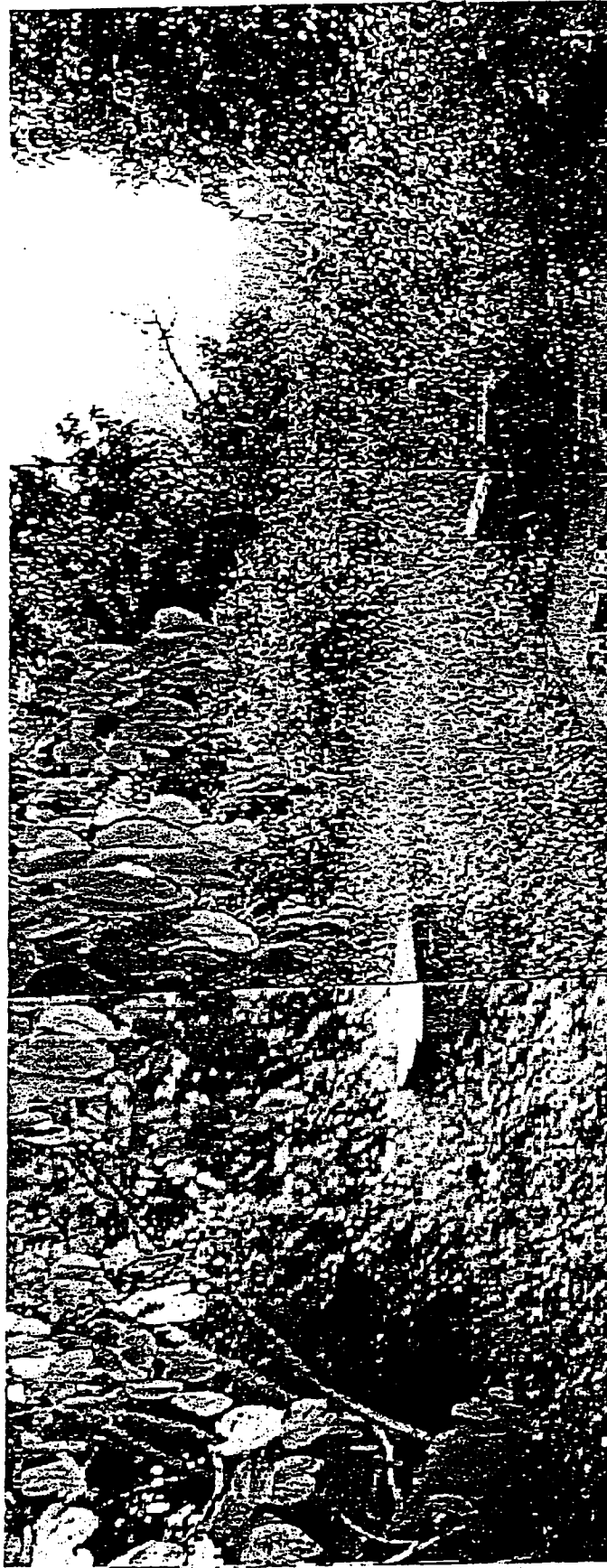
Dwg. No. CP-0004 Site Name. Shing Mun Country Park Scale. N.T.S.		Title. Equipment and Antenna Layout for Shing Mun Country Park File Name. CP-0004.DWG		Version A Contents New Drawing Date 6-7-98 Drawn By SU SURVEYOR Bill Chan		SUNDAY	
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Appendix 4

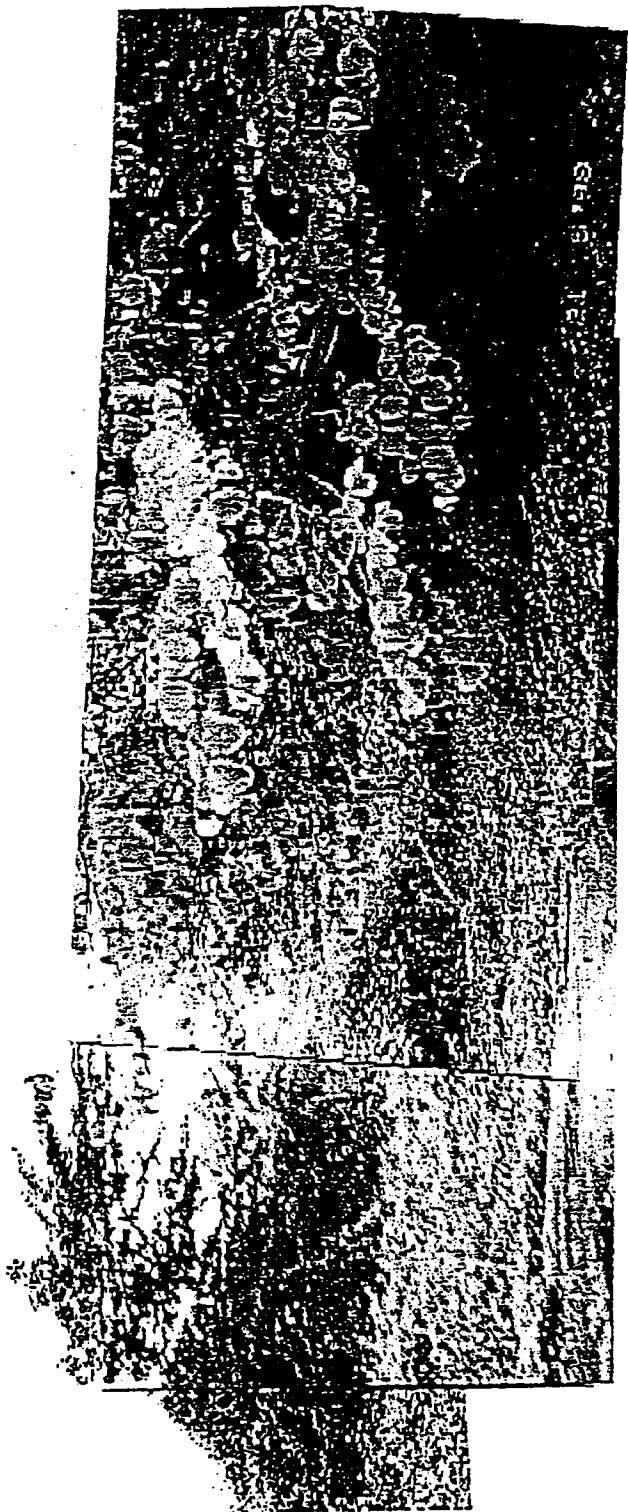


Entrance of Base Station Location

Appendix 4 - Site Photograph



Proposed base Station Location (View A)



Proposed Base Station Location (View B)

Appendix 4 - Site Photograph



Target View Point (View C)

Appendix 4 - Site Photograph