

# **Annex F**

## **Figures Referred to in the Final EIA**

## ***Annex F:*** ***Figures Referred in the EIA***

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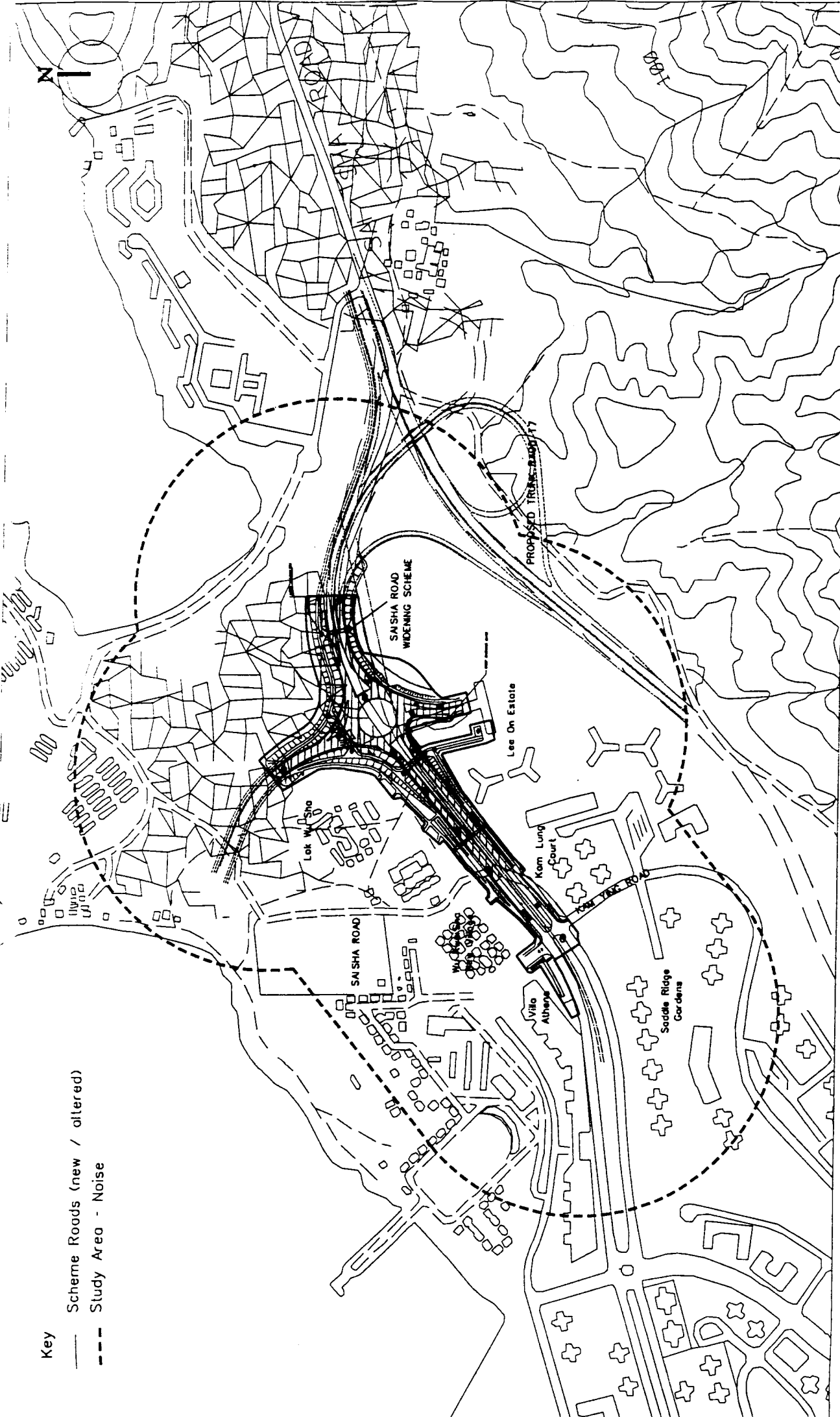
### *Contents*

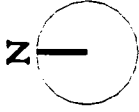
<i>Figure 1a</i>	<i>Study Area - Noise Assessment</i>
<i>Figure 1b</i>	<i>Study Area - Visual and Landscape Assessment</i>
<i>Figure 2</i>	<i>Envisaged Construction Programme</i>
<i>Figure 3a</i>	<i>MOS Rail - Preliminary Alignment Profile</i>
<i>Figure 3b</i>	<i>MOS Rail - Vertical Alignment Profile</i>
<i>Figure 3c</i>	<i>MOS Rail - Typical Cross Section</i>
<i>Figure 4a</i>	<i>Projected 2001 AM Peak Hour Traffic Flows</i>
<i>Figure 4b</i>	<i>Projected 2018 AM Peak Hour Traffic Flows</i>
<i>Figure 5</i>	<i>Noise Sensitive Receivers (NSRs)</i>
<i>Figure 6a</i>	<i>Noise Assessment Points (APs) - General</i>
<i>Figure 6b</i>	<i>Noise Assessment Points (APs) - Lee On Estate</i>
<i>Figure 6c</i>	<i>Noise Assessment Points (APs) - Kam Lung Court</i>
<i>Figure 6d</i>	<i>Noise Assessment Points (APs) - Wai Kai Sha</i>
<i>Figure 6e</i>	<i>Noise Assessment Points (APs) - Residential Development at STTL446</i>
<i>Figure 6f</i>	<i>Noise Assessment Points (APs) - Development above LEO Station</i>
<i>Figure 7</i>	<i>Envisaged Construction Sites</i>
<i>Figure 8</i>	<i>Proposed Operational Noise Mitigation</i>
<i>Figure 9</i>	<i>Typical Sections of Noise Barriers</i>
<i>Figure 9a</i>	<i>Cross Sections of Initial Section of the Northern Ramp of the Footbridge</i>
<i>Figure 10</i>	<i>Topography</i>
<i>Figure 11</i>	<i>Existing Landscape Context</i>
<i>Figure 12</i>	<i>Photographic Viewpoints</i>
<i>Figure 13</i>	<i>Photographs 1</i>
<i>Figure 14</i>	<i>Photographs 2</i>
<i>Figure 15</i>	<i>Landscape Impacts</i>
<i>Figure 16</i>	<i>Extent of Visual Envelope</i>
<i>Figure 17</i>	<i>Existing Visually Sensitive Receivers</i>
<i>Figure 18</i>	<i>Visual Impacts</i>
<i>Figure 19</i>	<i>Mitigation Measures</i>
<i>Figure 20</i>	<i>Noise Mitigation Measures</i>
<i>Figure 21</i>	<i>Noise Mitigation Measures - 600mm Concrete Wall</i>
<i>Figure 22</i>	<i>Noise Mitigation Measures - 5m Absorptive Vertical Barrier</i>
<i>Figure 23</i>	<i>Noise Mitigation Measures - Cantilever Absorptive Barrier</i>
<i>Figure 24</i>	<i>Noise Mitigation Measures - Cantilever Absorptive Barrier</i>
<i>Figure 25</i>	<i>Land Use</i>
<i>Figure 26</i>	<i>Existing and Planned Land Use</i>
<i>Figure 27</i>	<i>Tree Survey Plans</i>
<i>Figure 28</i>	<i>Photomontages</i>

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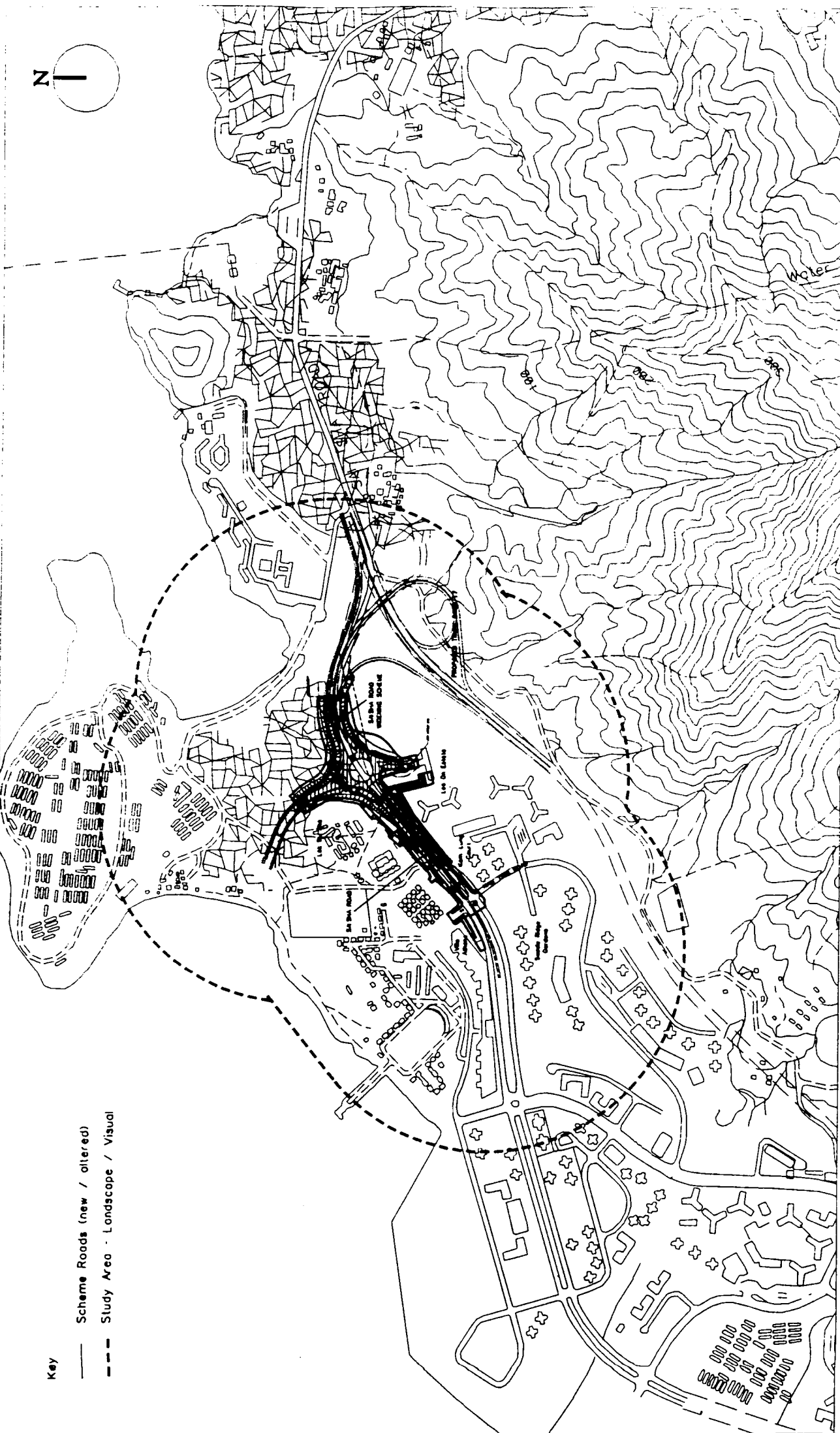
300m - STUDY AREA FOR NOISE ASSESSMENT

Key  
— Scheme Roads (new / altered)  
- - - Study Area - Noise





- Key
- Scheme Roads (new / altered)
  - - - Study Area - Landscape / Visual



**Mansell**

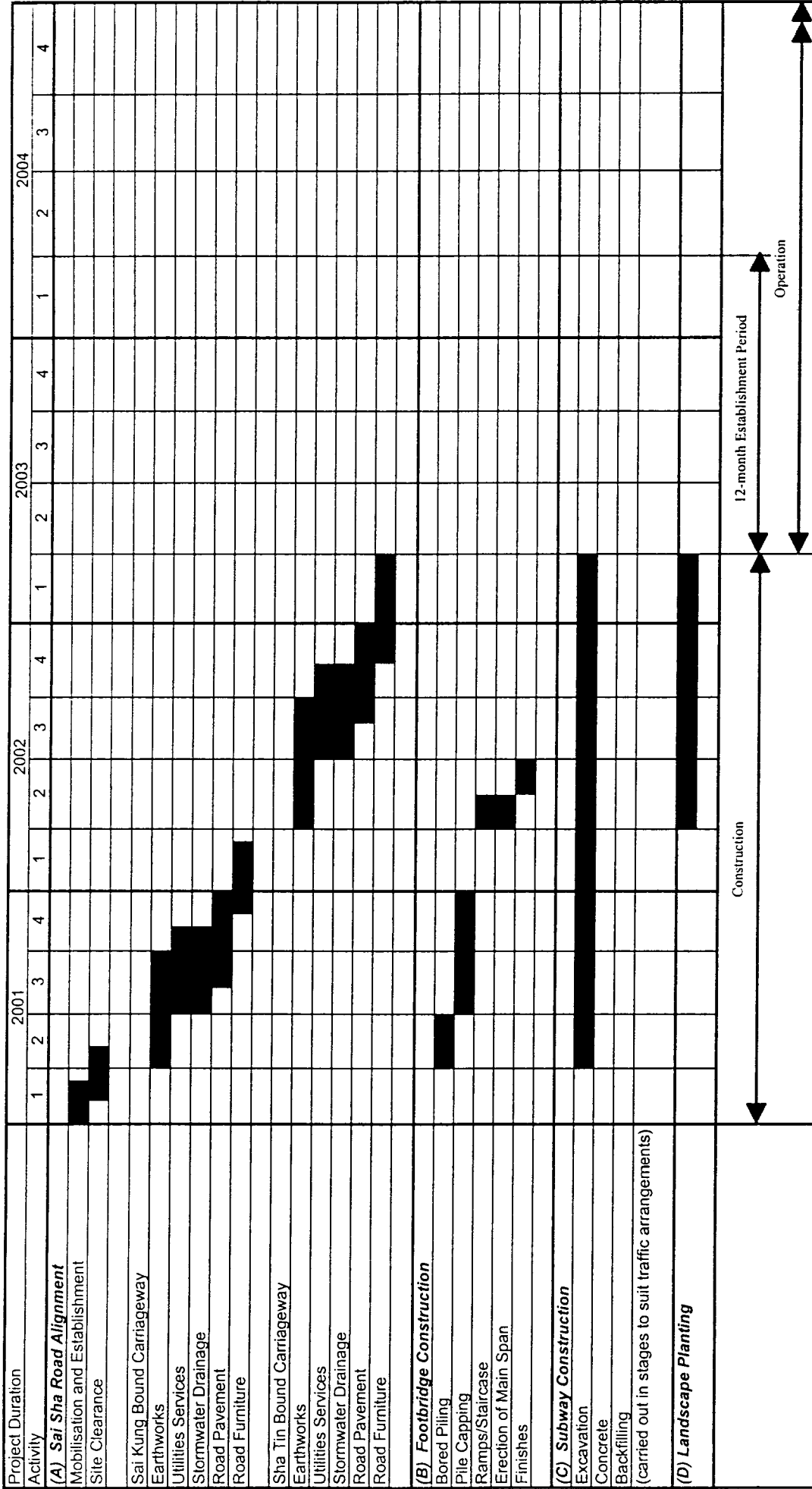
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DATE: NOV 98  
SCALE: 1:12500

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FIGURE NO.  
1b

500m - STUDY AREA FOR VISUAL & LANDSCAPE ASSESSMENT



Construction

12-month Establishment Period

Operation

**ENVISAGED CONSTRUCTION PROGRAMME**

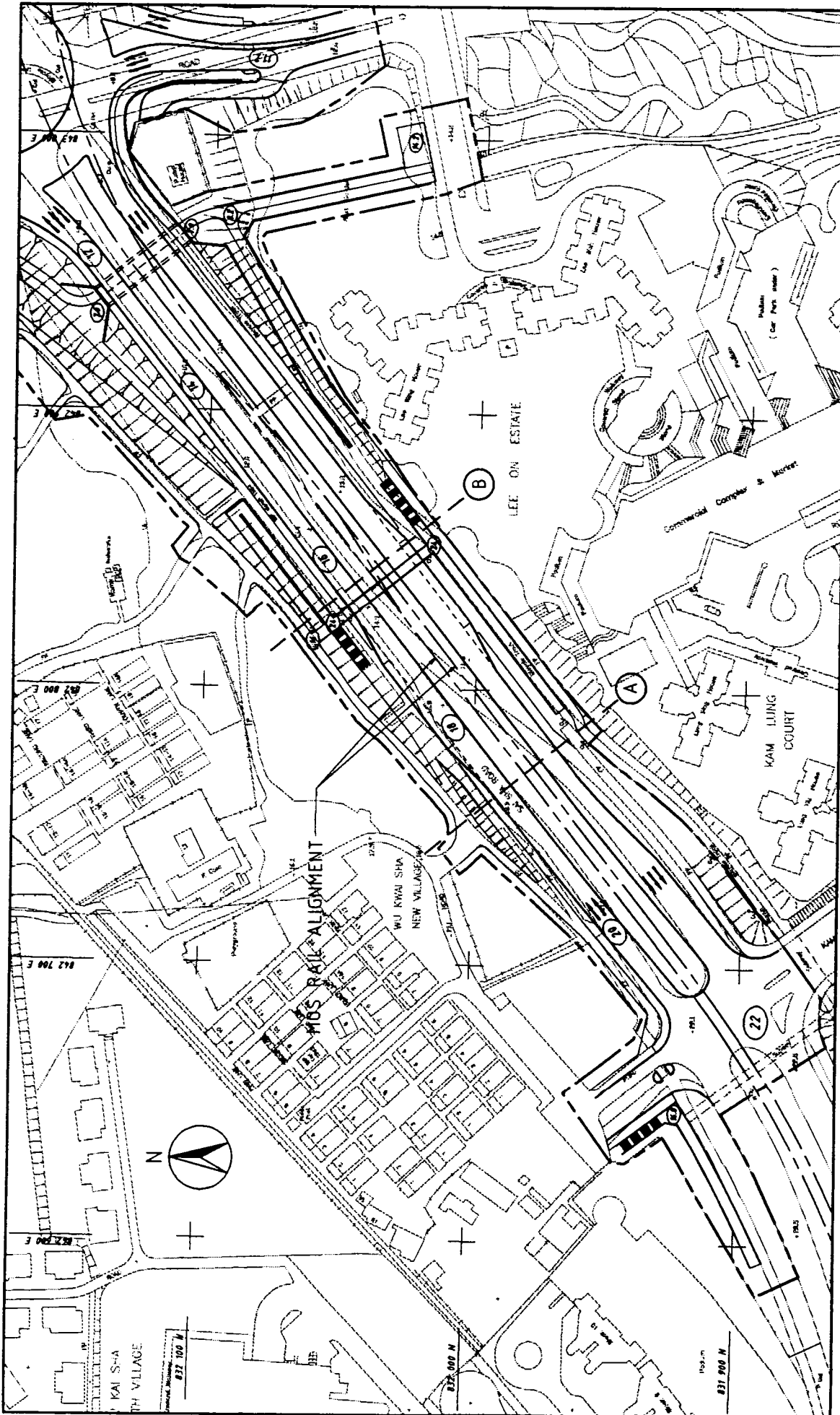
FIGURE NO. **2**

SCALE

DATE **JULY 99**

Date : 27/07/98

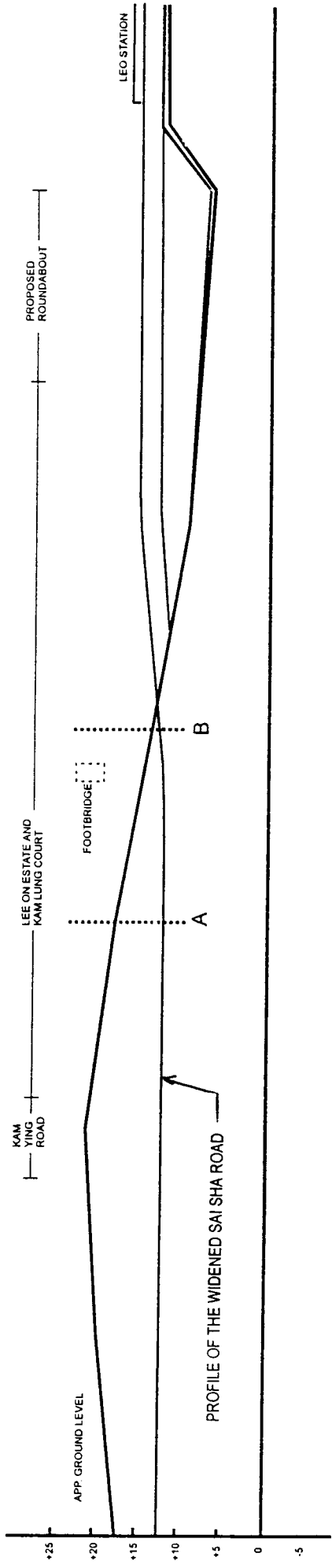
M A U N S E L L



<b>MALIBEL CONSULTANTS ASIA LTD</b> (INCORPORATED IN HONG KONG)	
DATE: JULY 98	FIGURE NO.: 3a
SCALE: 1:2000	

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**MOS RAIL ALIGNMENT PROFILE**



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FIGURE No. 3b

SCALE: DATE: JULY 98

MOS RAIL: VERTICAL ALIGNMENT PROFILE

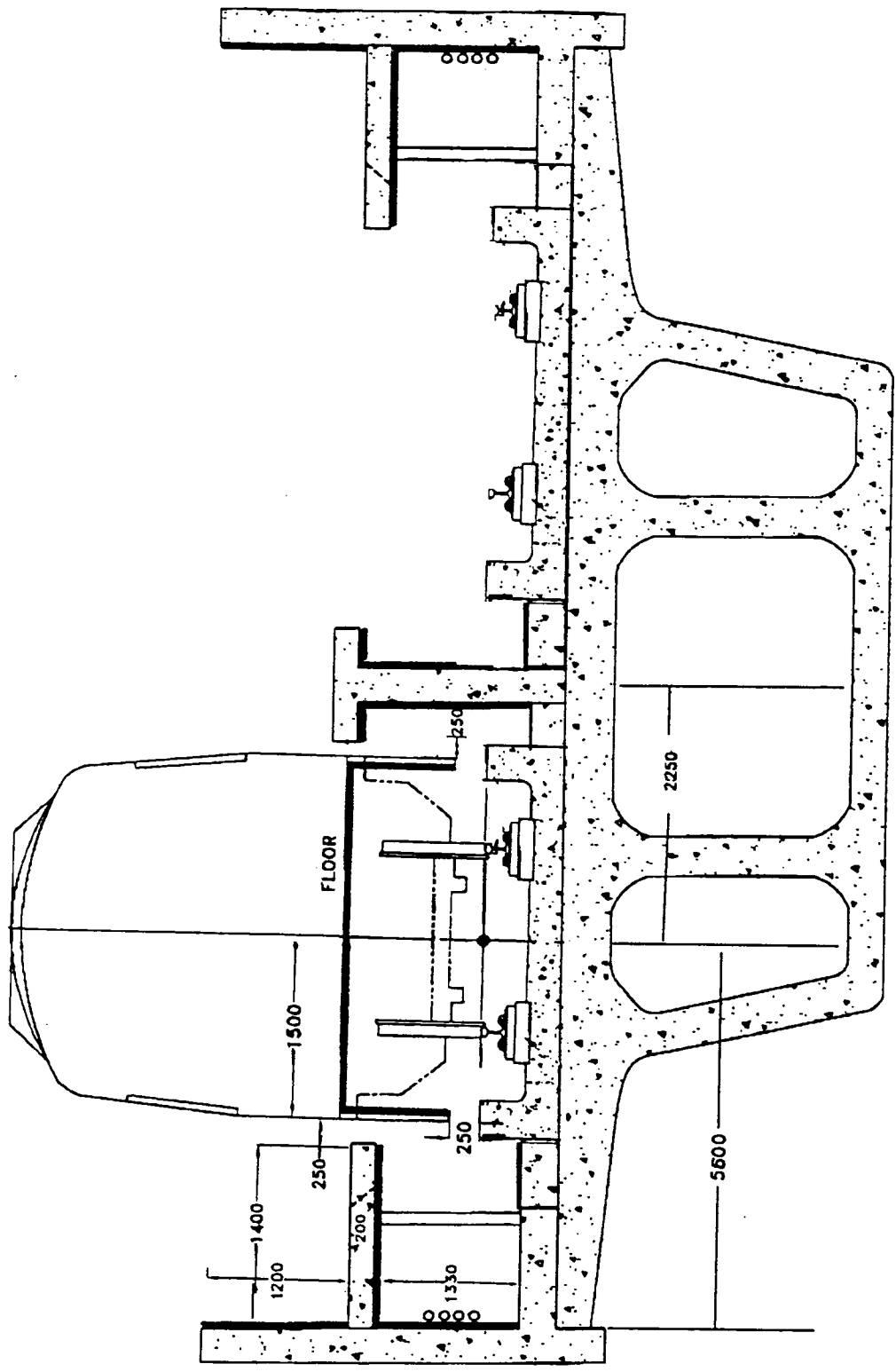
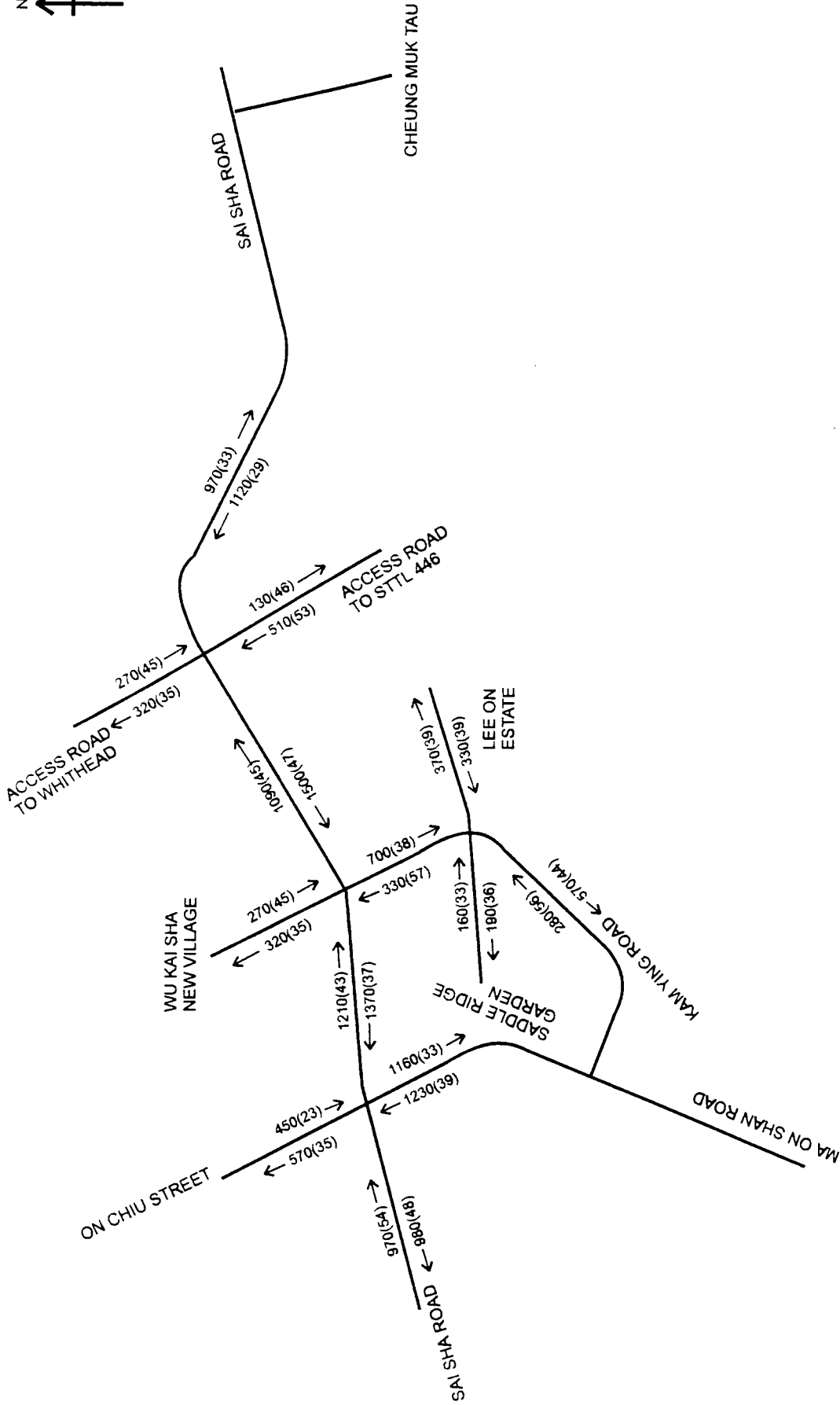
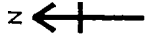


FIGURE No. 3c

SCALE: DATE: JULY 98

MOS RAIL - TYPICAL CROSS SECTION

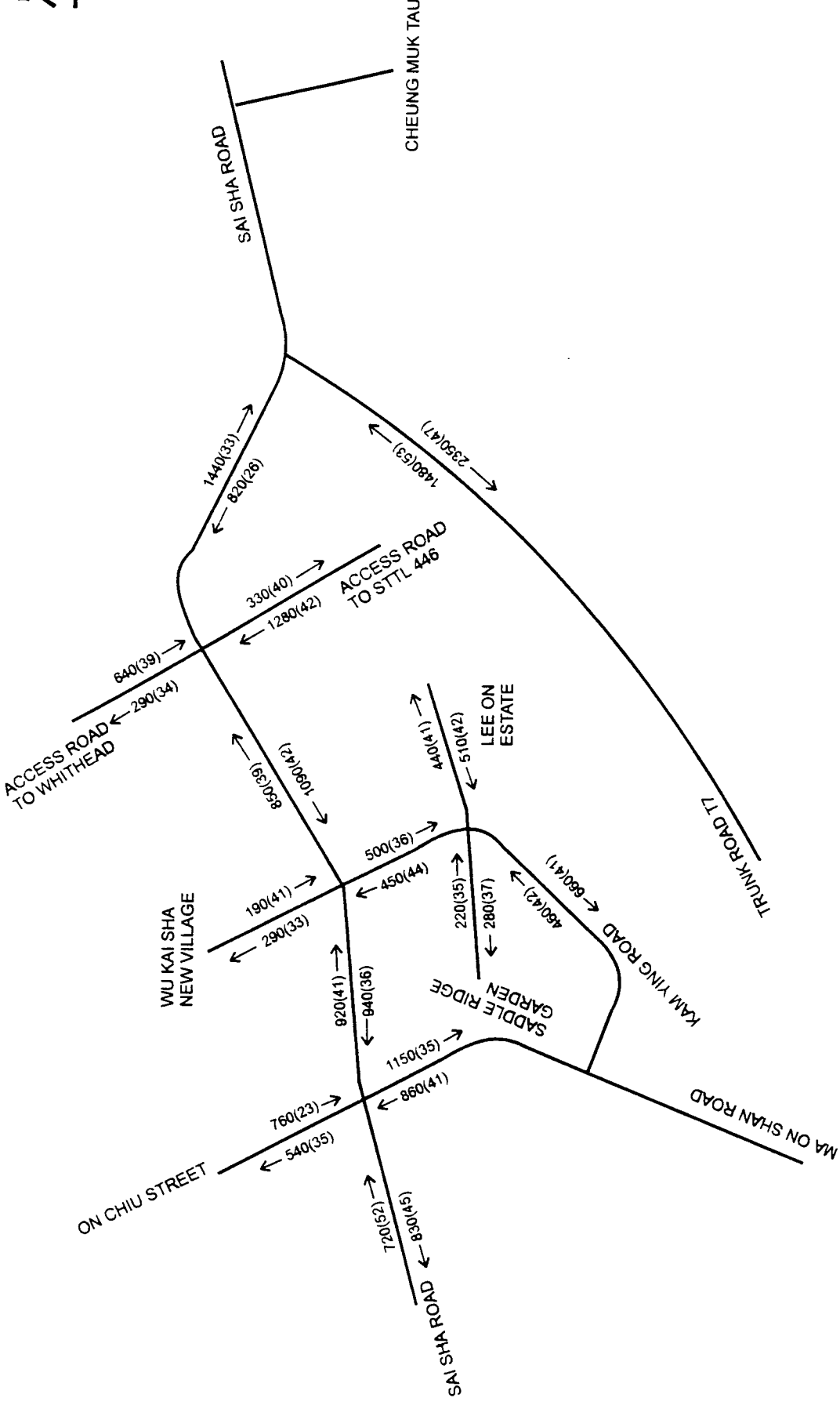
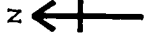




LEGEND  
TOTAL NO. VEHICLES (% HGVs)

FIGURE No.	4a
SCALE:	DATE: JULY 98

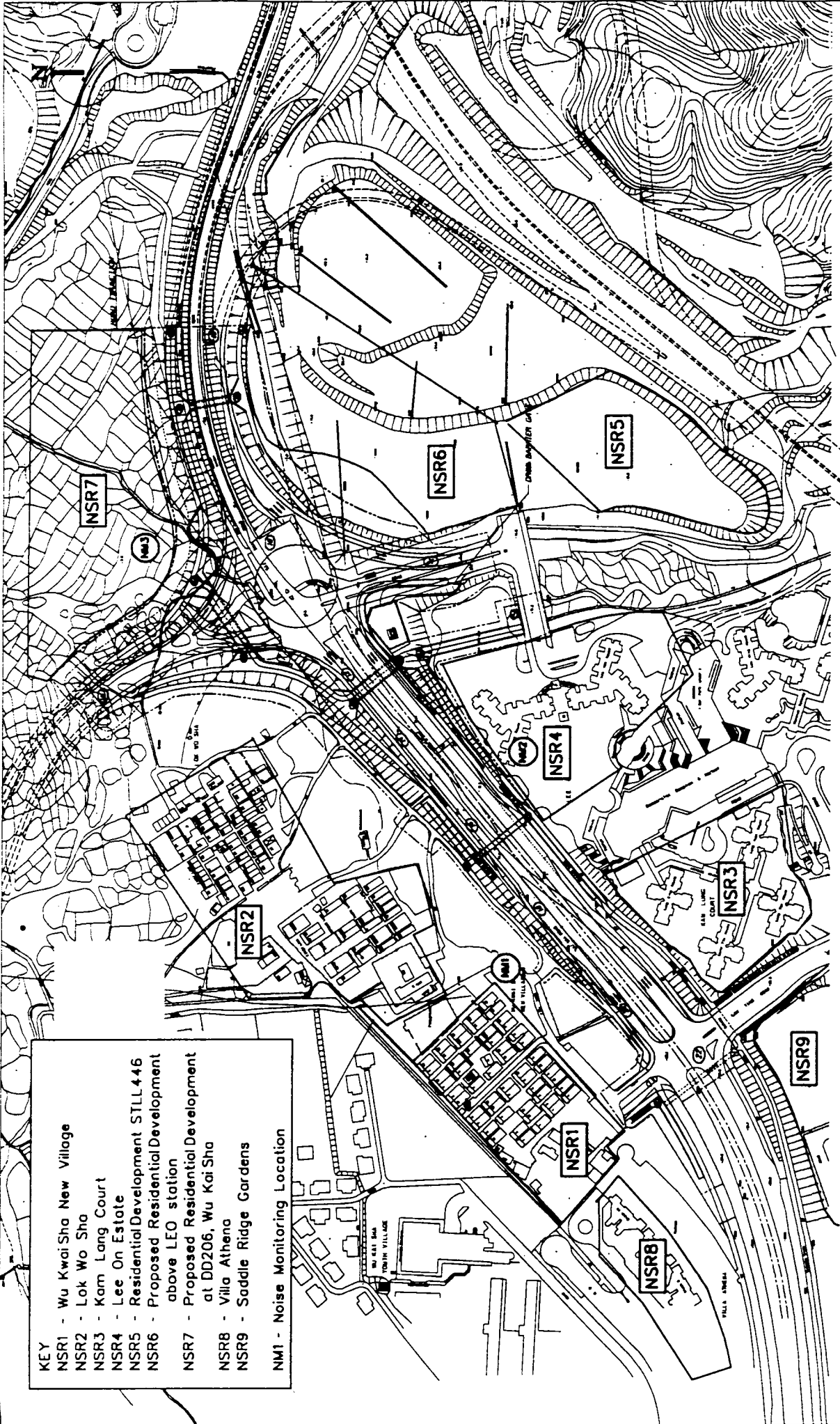
PROJECTED 2001 AM PEAK HOUR FLOWS



LEGEND  
TOTAL NO VEHICLES (% HGVs)

<b>Maunsell</b>	
FIGURE No.	4b
SCALE:	DATE: JULY 98

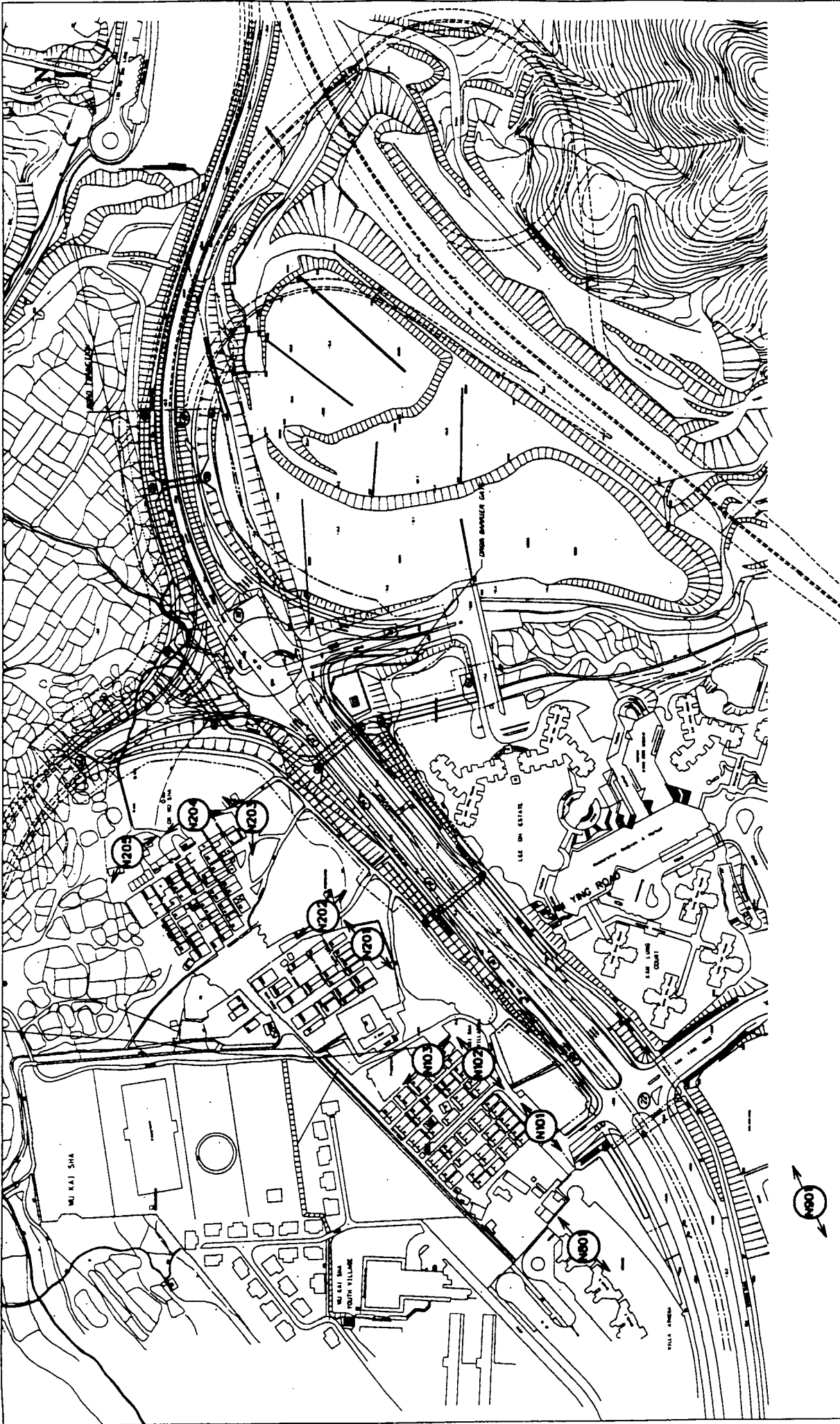
PROJECTED 2018 AM PEAK HOUR FLOWS



- KEY**
- NSR1 - Wu Kwai Sha New Village
  - NSR2 - Lok Wo Sho
  - NSR3 - Kam Lang Court
  - NSR4 - Lee On Estate
  - NSR5 - Residential Development STILL446
  - NSR6 - Proposed Residential Development above LEO station
  - NSR7 - Proposed Residential Development at DD206, Wu Kai Sha
  - NSR8 - Villa Athena
  - NSR9 - Saddle Ridge Gardens
  - NM1 - Noise Monitoring Location

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 DATE: AUG 98  
 SCALE: 1:3800  
 FIGURE NO. 5

CONSTRUCTION NOISE MONITORING STATIONS



ASSESSMENT POINTS ALONG SAI SHA ROAD

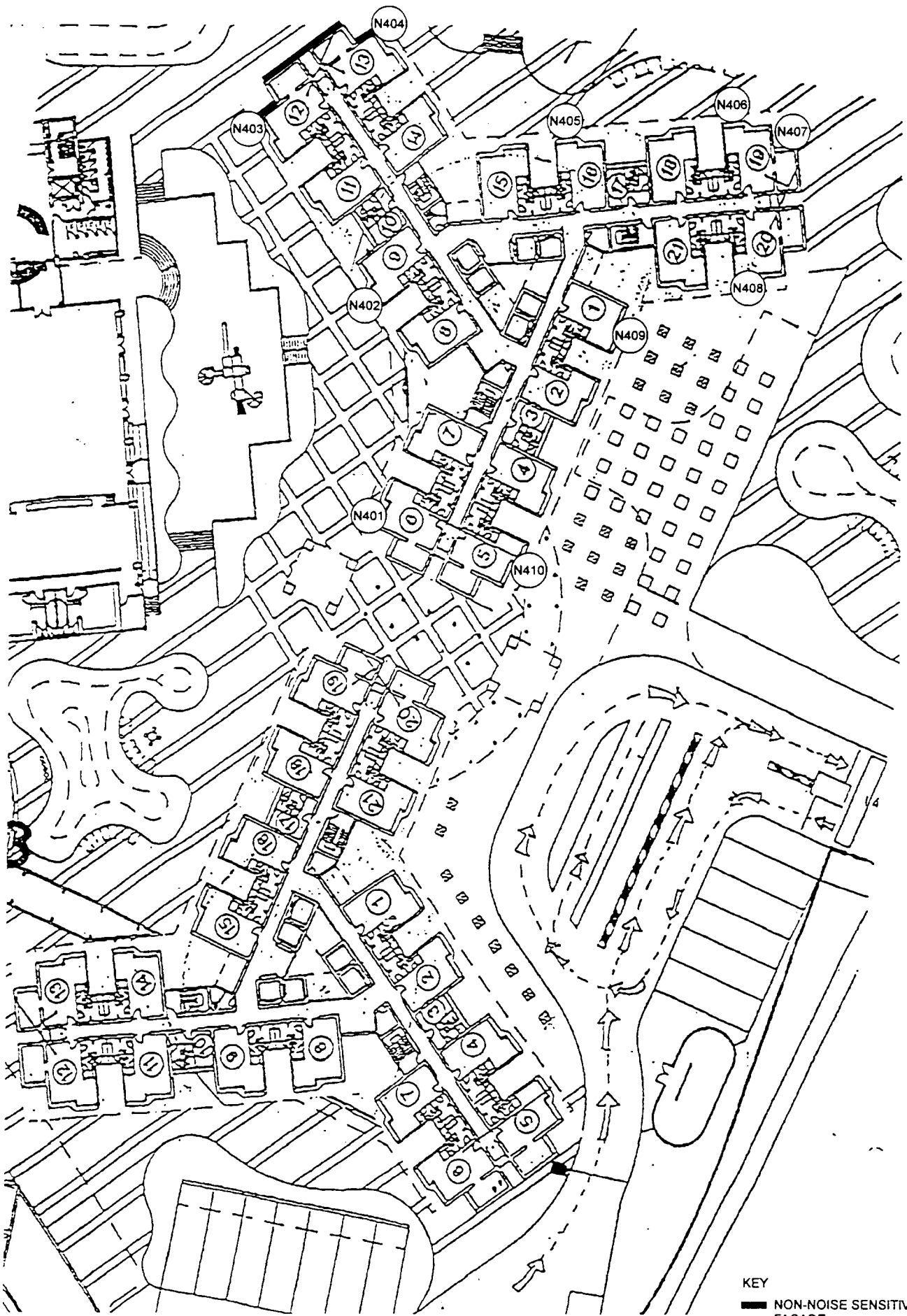
**MANNING**

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DATE: JULY 98  
 SCALE: 1:4000

FIGURE NO.  
 6a

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NOISE ASSESSMENT POINTS AT LEE ON ESTATE

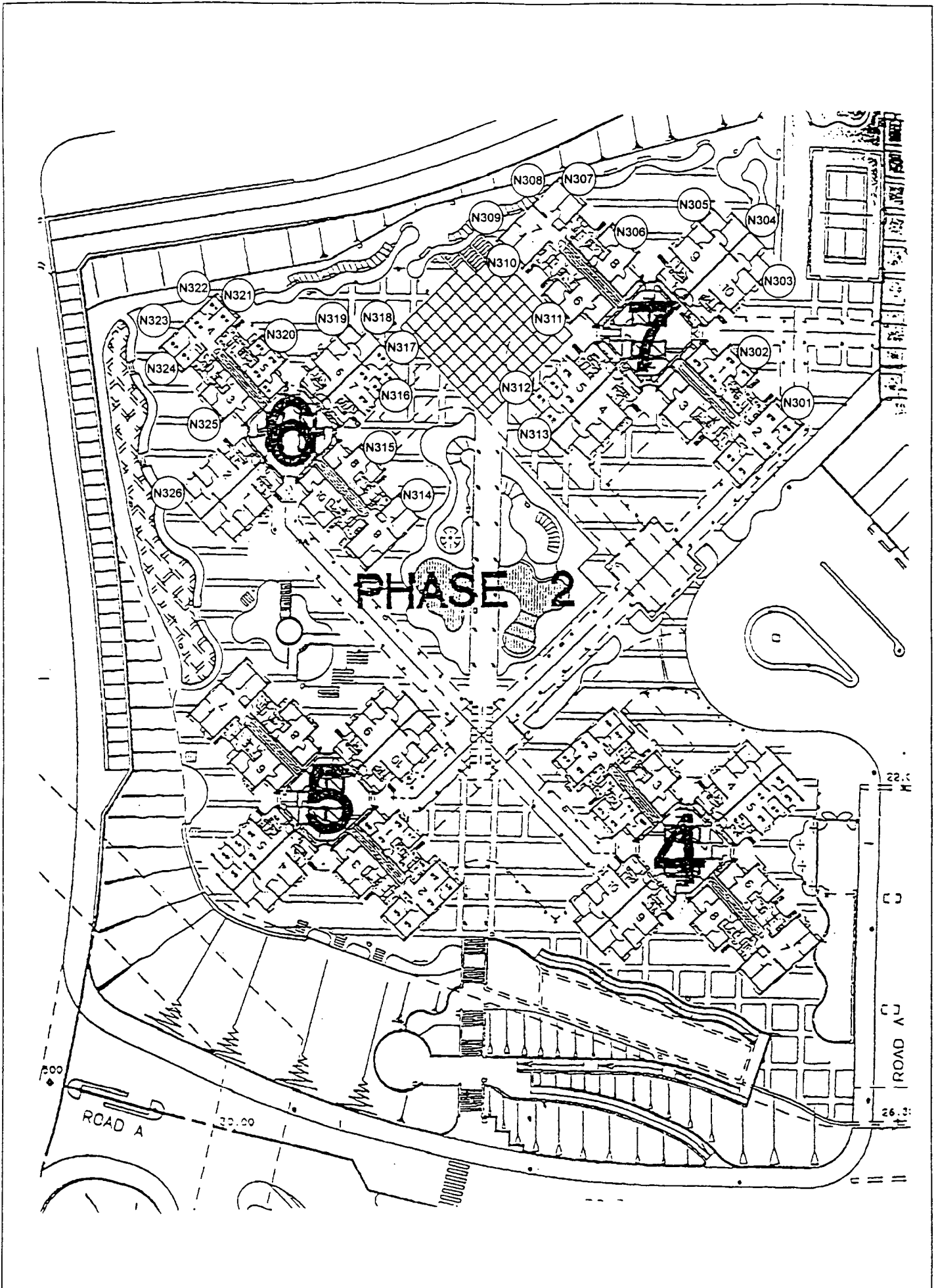
FIGURE No.

6b

SCALE:

DATE:

JULY 98



NOISE ASSESSMENT POINTS AT KAM LUNG COURT

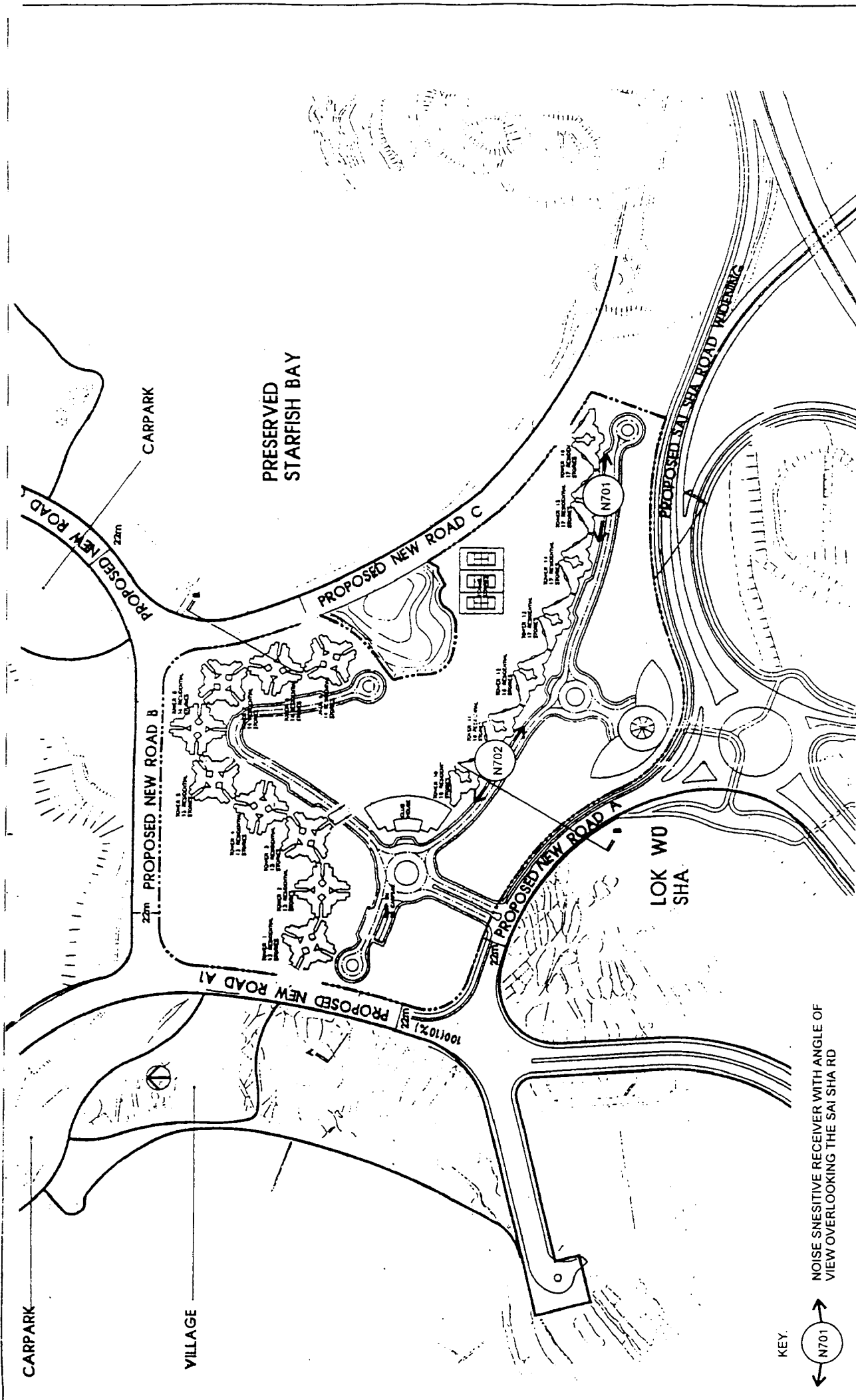
FIGURE No.

6c

SCALE:

DATE:

JULY 98



Maunsell	
FIGURE No.	6d
SCALE:	DATE: JULY 98
NOISE ASSESSMENT POINTS - RESIDENTIAL DEVELOPMENT DD206, WU KAI SHA	
FILE: G1735C1735h DATE: 27/07/98	



FIGURE No.

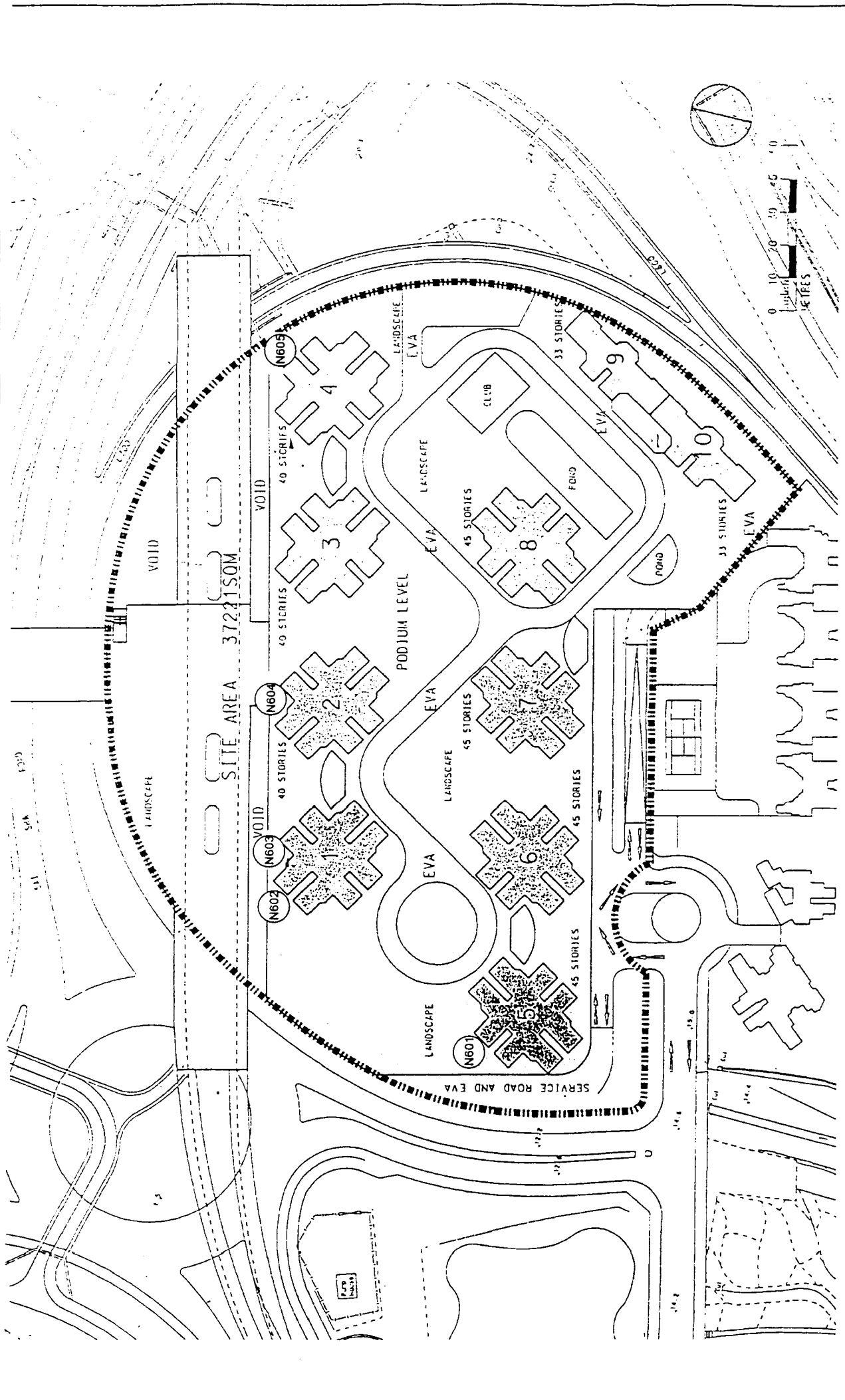
6e

SCALE:

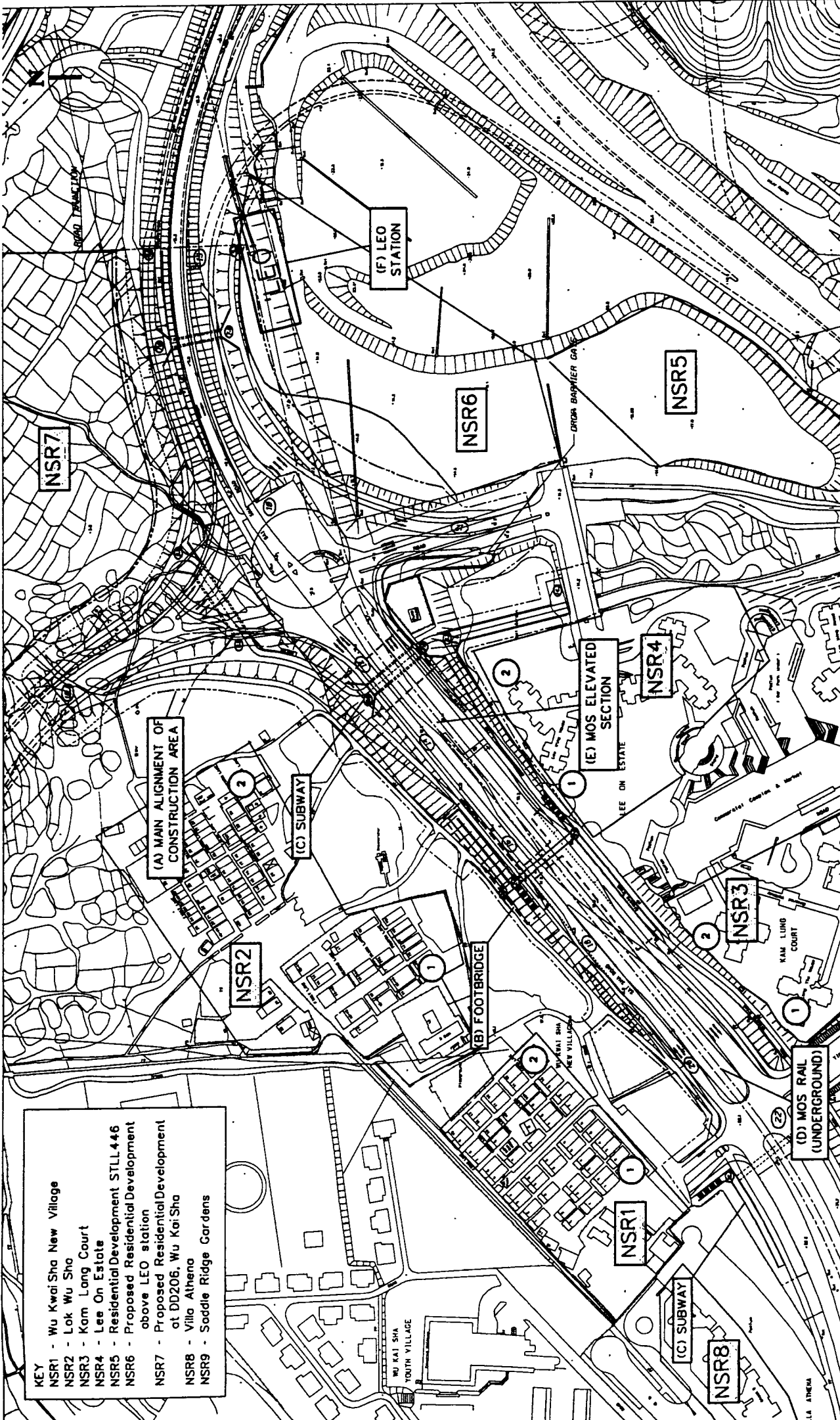
DATE: JULY 98

NOISE ASSESSMENT POINT - PROPOSED RESIDENTIAL DEVELOPMENT IN STTL 446 AREA 108 MA ON SHAN





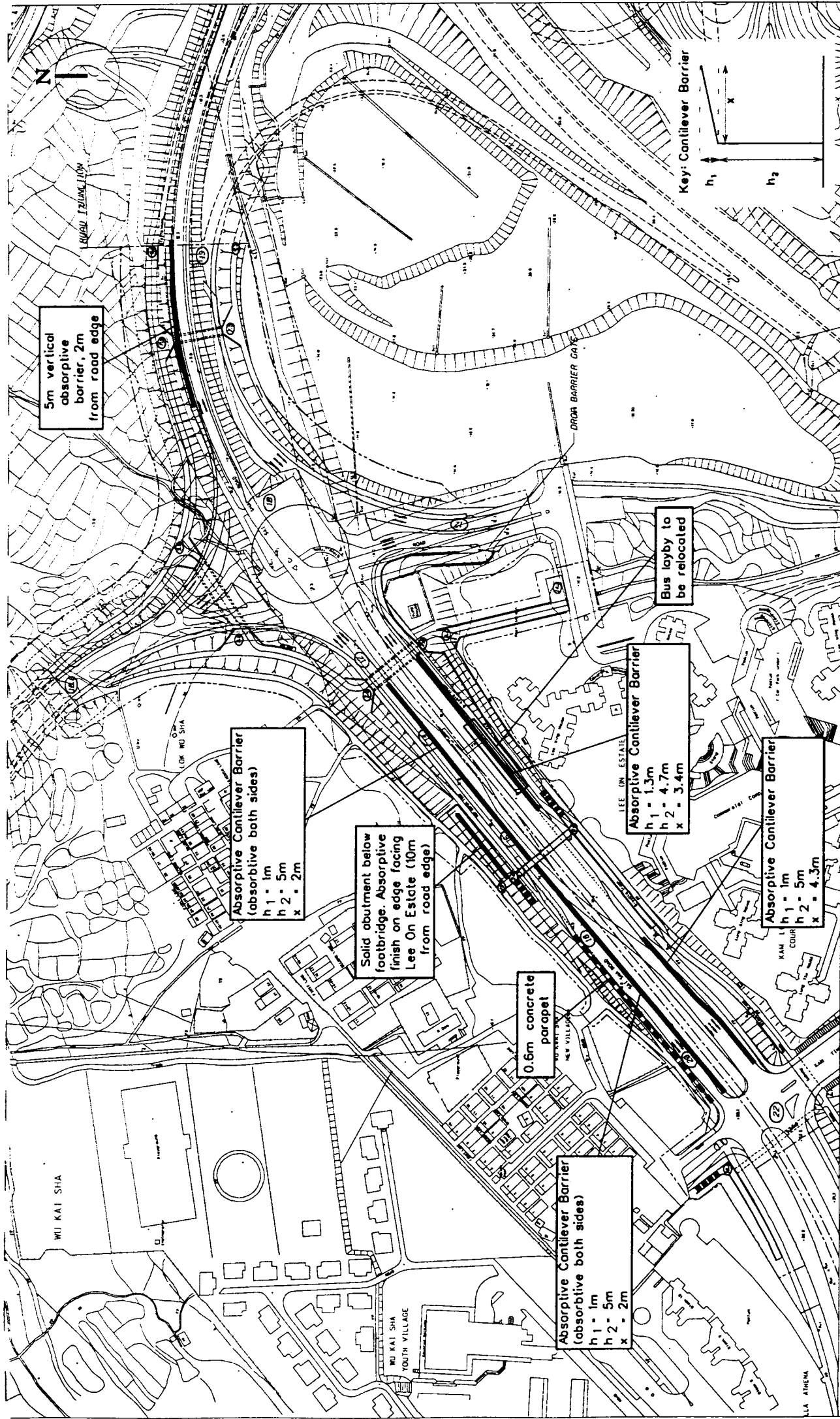
Maunsell	
FIGURE No. 61	DATE: JULY 98
SCALE:	
NOISE ASSESSMENT POINTS - LEO STATION DEVELOPMENT	
FILE C1735C17351 DATE 2/07/98	



**KEY**  
 NSR1 - Wu Kwai Sha New Village  
 NSR2 - Lok Wu Sha  
 NSR3 - Kam Long Court  
 NSR4 - Lee On Estate  
 NSR5 - Residential Development STLL446  
 NSR6 - Proposed Residential Development above LEO station  
 NSR7 - Proposed Residential Development at DD206, Wu Kai Sha  
 NSR8 - Villa Athena  
 NSR9 - Saddle Ridge Gardens

CONSTRUCTION SITES AND CONSTRUCTION NOISE ASSESSMENT POINTS

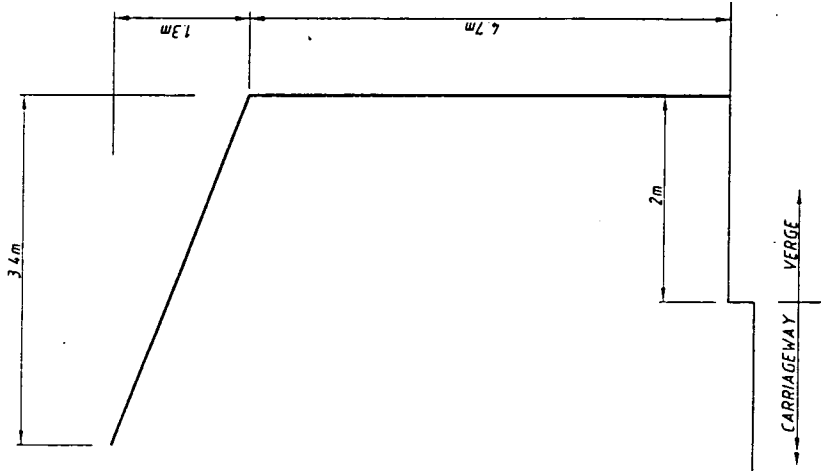
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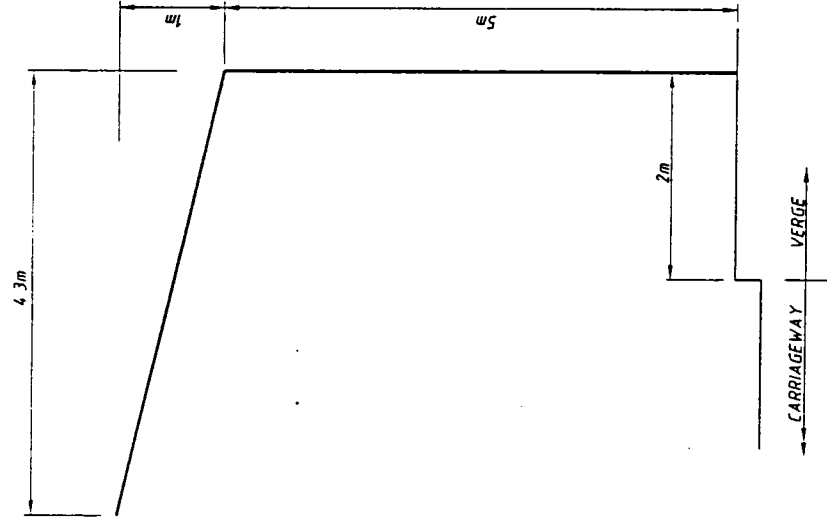
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OPERATIONAL NOISE MITIGATION

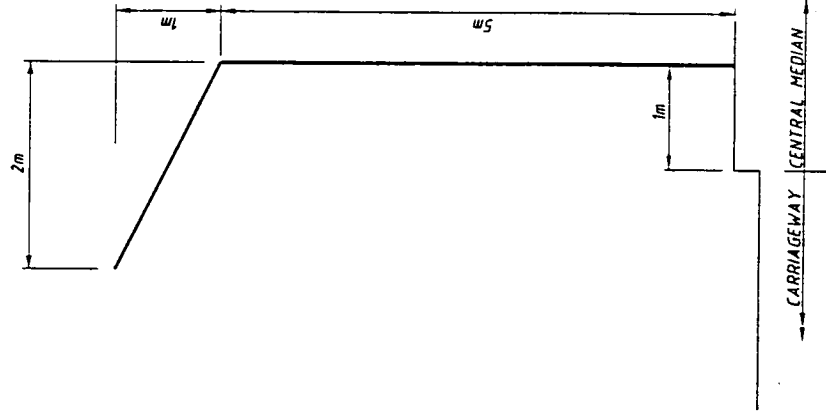
Note: that the dimensions of the noise barriers proposed in this assessment are subject to detailed design when suitable equivalent configurations may be considered to be more appropriate.



NOISE BARRIER IN FRONT OF  
LEE ON ESTATE



NOISE BARRIER IN FRONT OF  
KAM LUNG COURT



NOISE BARRIER IN CENTRAL MEDIAN

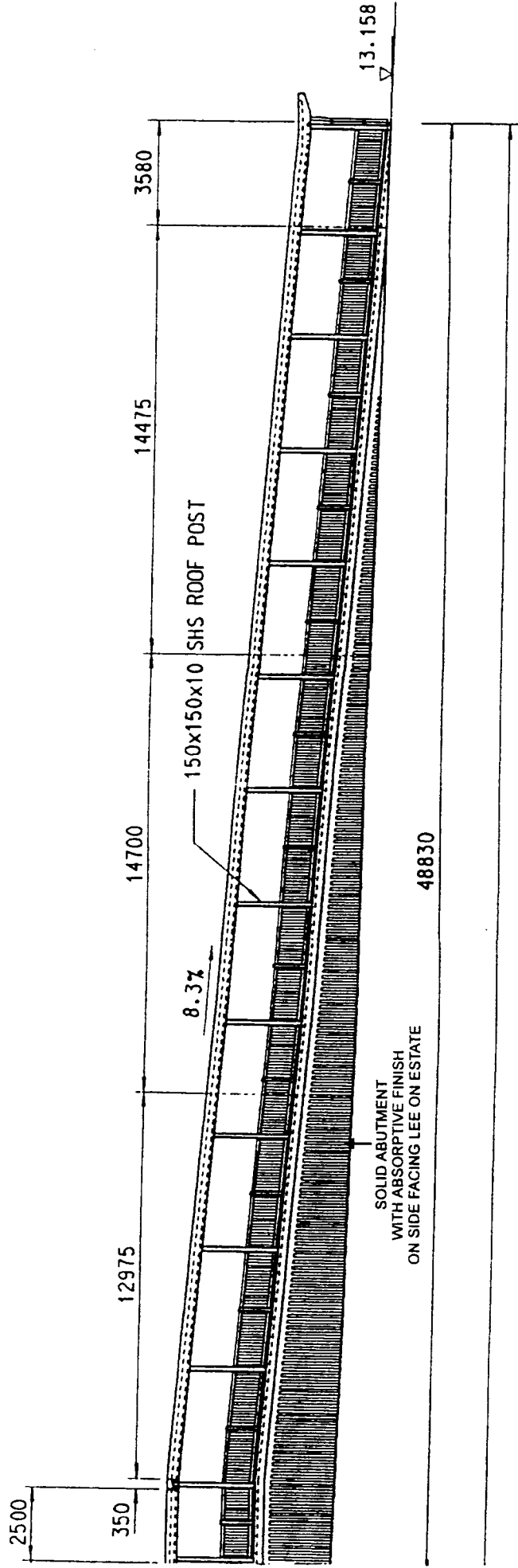
Note: The exact form of the noise barriers proposed in this assessment are subject to detailed design when suitable equivalent configurations may be considered to be more appropriate.

Agreement No. CE 38/97 Sai Sha Road Widening  
Between Kam Ying Road and Proposed Road T7  
**TYPICAL SECTIONS OF NOISE BARRIERS**

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SCALE: 1:50

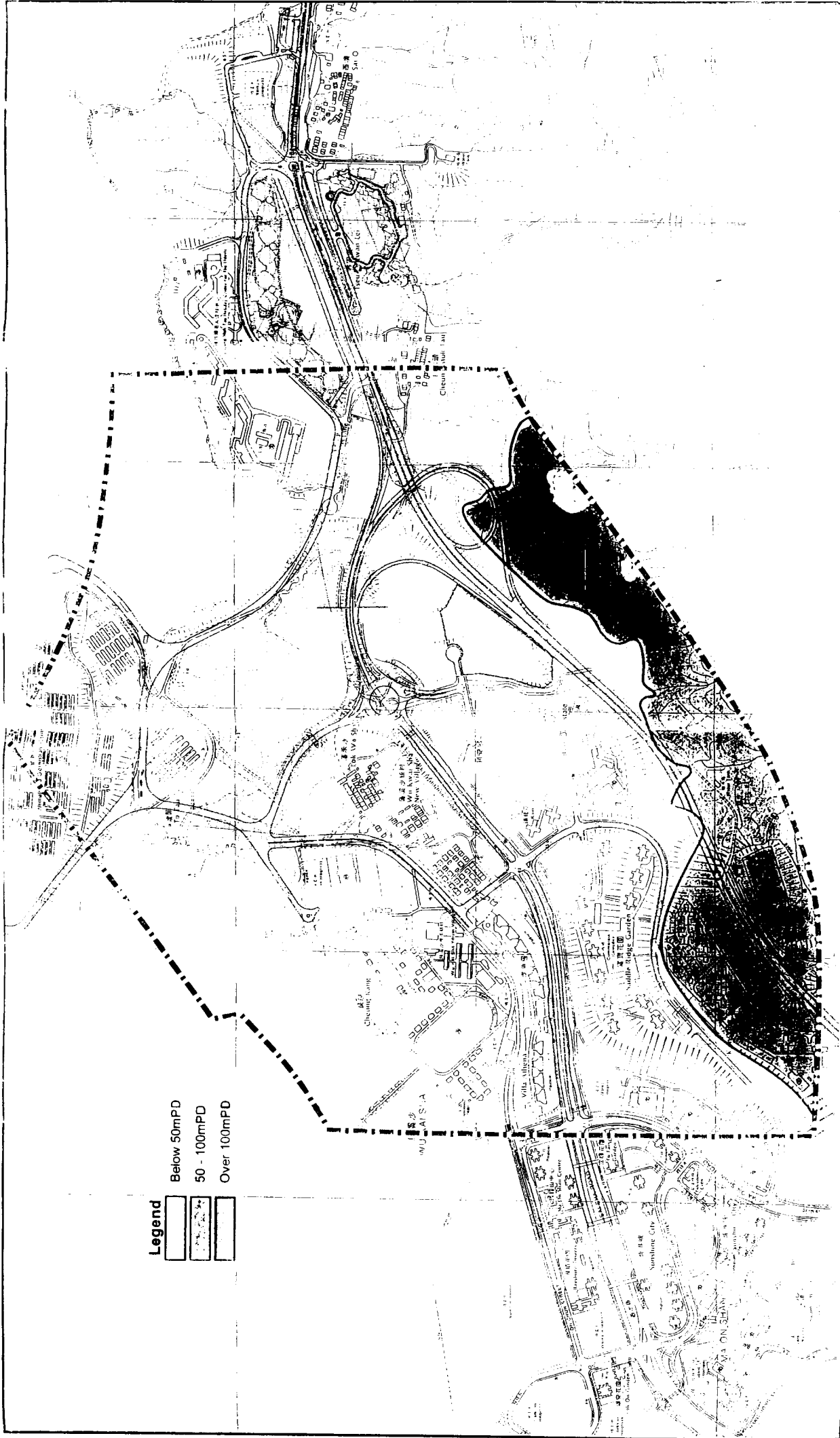
FIGURE 9



NOTE: SLOPE TO FOOTBRIDGE WILL BE POSITIONED APPROXIMATELY 10m FROM THE EDGE OF THE ROAD

<b>Maunsell</b>	
FIGURE No.	9a
SCALE:	DATE:
	NOV 98

INITIAL SECTION OF NORTHERN RAMP OF FOOTBRIDGE











Prepared by <b>HASSELL</b>	
Title	Topography
Scale	1:750
Date	July 1983
Drawing No.	-K-2387/S-4

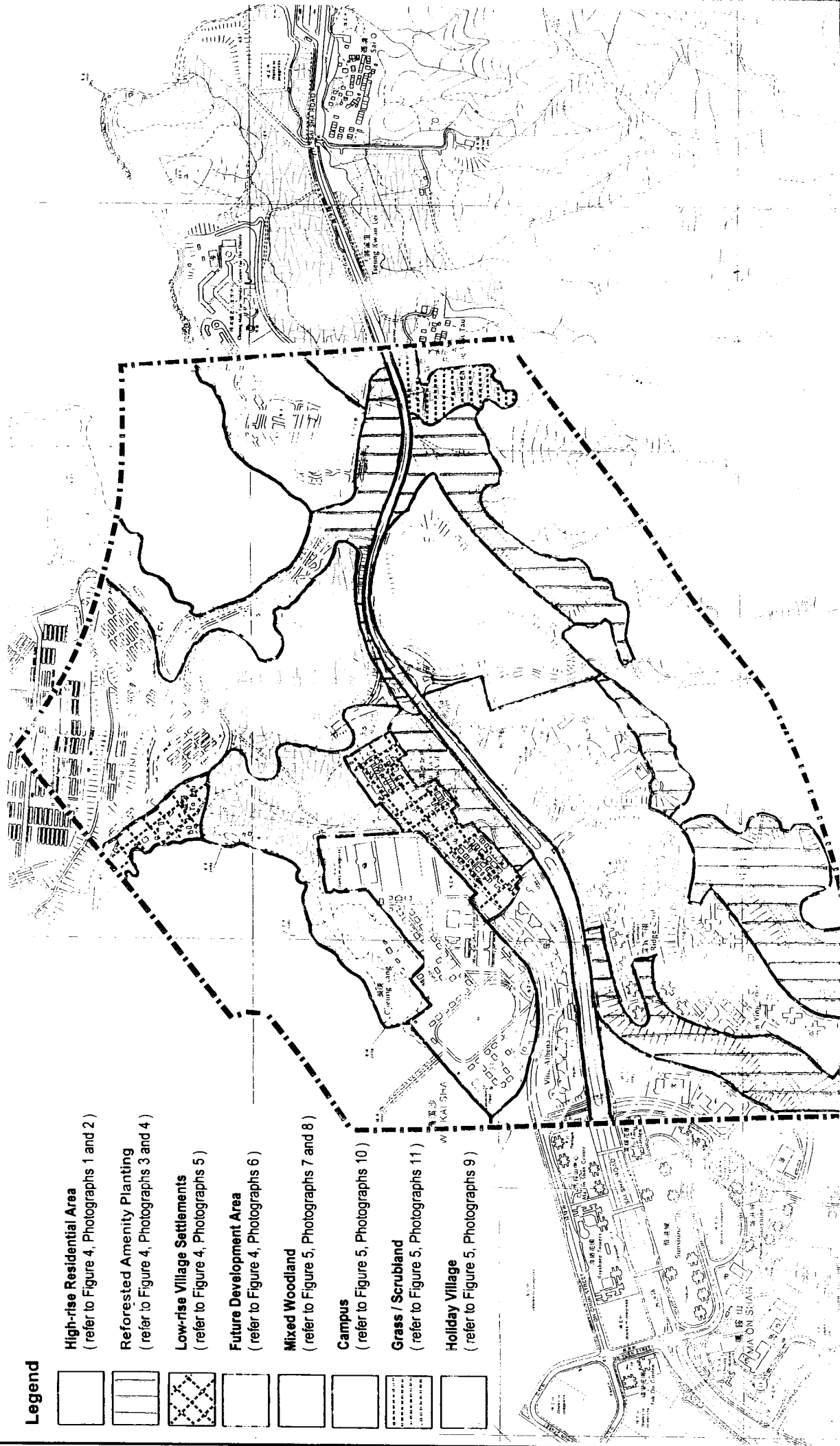
Project Agreement No CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 10 Topography

Project

W

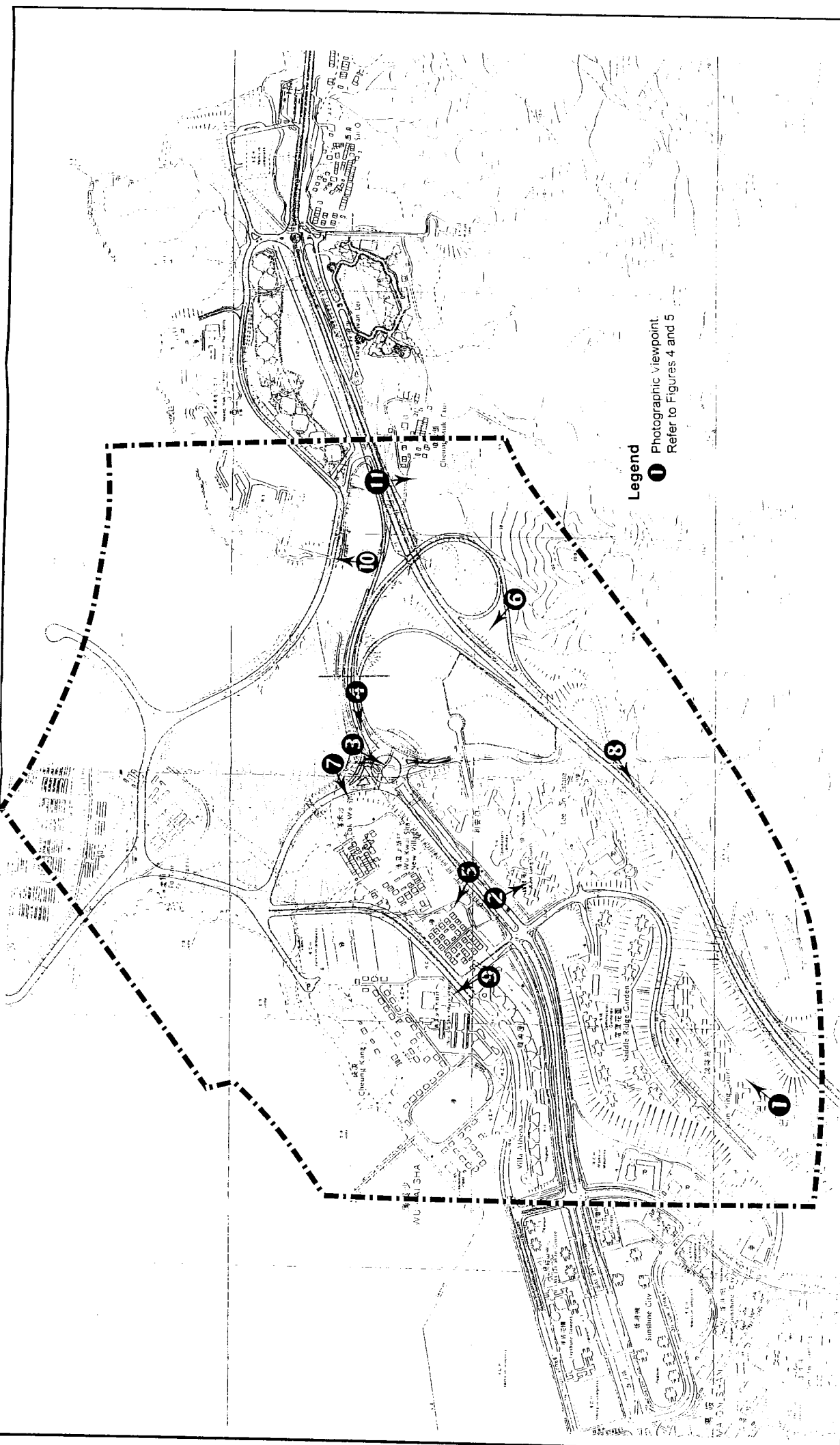
**Legend**

-  **High-rise Residential Area**  
(refer to Figure 4, Photographs 1 and 2)
-  **Reforested Amenity Planting**  
(refer to Figure 4, Photographs 3 and 4)
-  **Low-rise Village Settlements**  
(refer to Figure 4, Photographs 5)
-  **Future Development Area**  
(refer to Figure 4, Photographs 6)
-  **Mixed Woodland**  
(refer to Figure 5, Photographs 7 and 8)
-  **Campus**  
(refer to Figure 5, Photographs 10)
-  **Grass / Scrubland**  
(refer to Figure 5, Photographs 11)
-  **Holiday Village**  
(refer to Figure 5, Photographs 9)



<b>Prepared by</b> HASSELL	
Title :	Existing Landscape Context
Scale: 1:7500	Date: July 1998
Drawing No.: HKL2387/ SK/	

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 11 Existing Landscape Context



**Legend**  
 ① Photographic viewpoint.  
 Refer to Figures 4 and 5

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 12 Photographic Viewpoints

Prepared by <b>HASSELL</b>	
Title :	Photographic Viewpoints
Scale: 1:7500	Date: July 1998
Drawing No. : HKL2387/SK/	





**Photograph 1- High-rise Residential Area**  
Residential space at Kam Ying Court



**Photograph 2- High-rise Residential Area**  
Residential space and entrance at Kam Lung Court



**Photograph 3- Reforested Amenity Planting**  
Dense tree planting as a major landscape buffer zone adjacent to Sai Sha Road, Lee On Estate and the quarry.



**Photograph 4- Reforested Amenity Planting**  
Dense tree planting as a major landscape buffer zone between Sai Sha Road and the low-rise village settlements.



**Photograph 5- Low-rise Village Settlements**  
Typical View of the low rise villages of Lok Wo Sha, Wu Kai Sha New Village and Cheung Muk Tau.



**Photograph 6- Future Development Area**  
View over the existing quarry site with the DD206 Wu Kai Sha site in the background. These are proposed to be developed primarily as residential also including the railway depot and commercial development.

Project: Agreement No. CE 38/97 PWP Item B645TH  
Sai Sha Road Widening  
Figure 13 Photographs 1

Prepared by **HASELL**

Title: Photographs 1

Scale: Nil

Date: July 1998

Drawing No.: HKL2387/ SK/



**Photograph 7- Mixed Woodland**

Dense mixed woodland at Lok Wo Sha, comprising many native species, is a major vegetative resource landscape buffer, particularly for the adjacent low-rise villages.



**Photograph 8- Mixed Woodland**

Dense mixed woodland on the Ma On Shan hillside is a major and important vegetative resource of Ma On Shan town. Much of his area is designated as Country Park.



**Photograph 9- Holiday Village**

A medium-rise Youth Village with sporting facilities set in woodland.



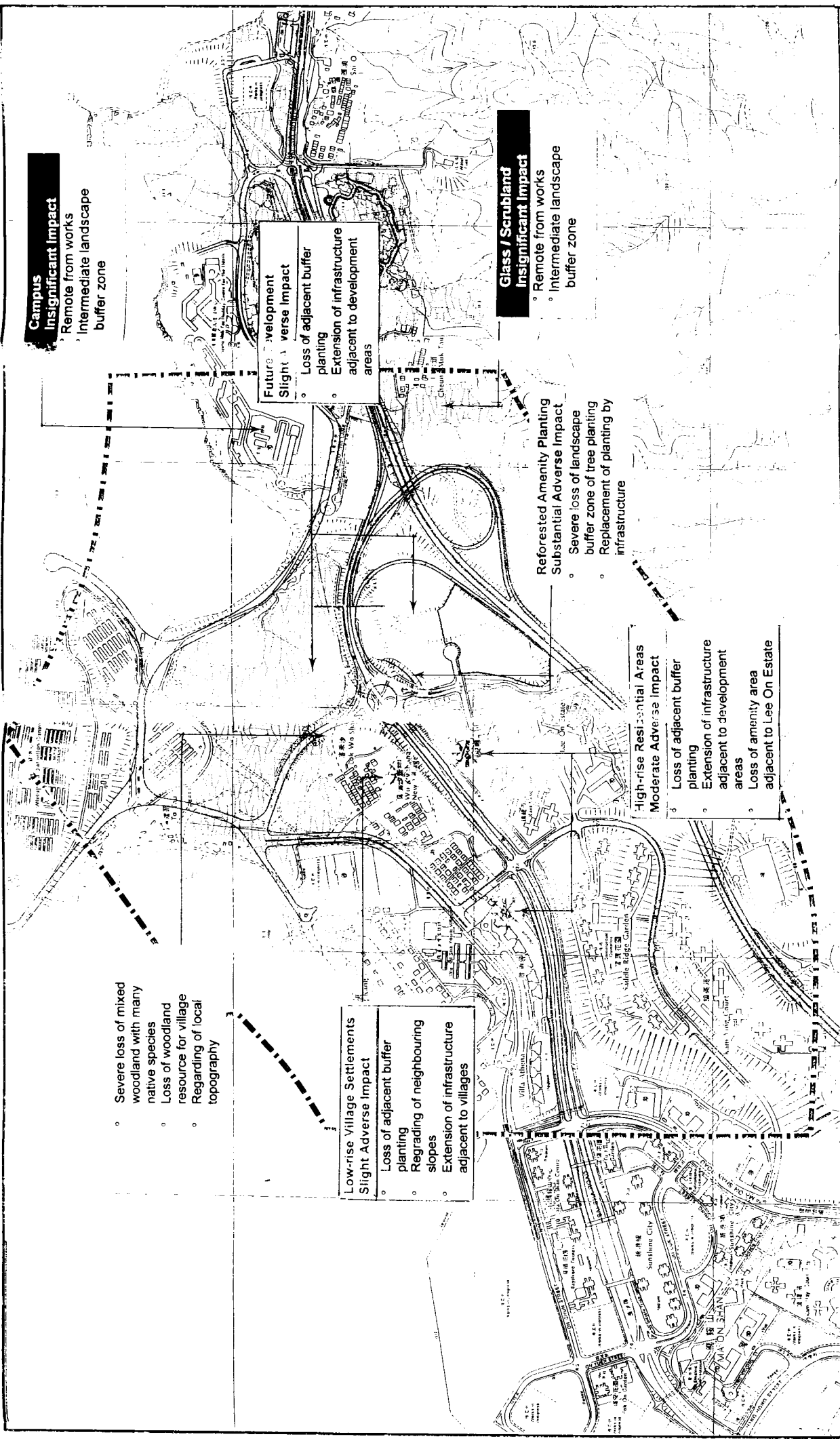
**Photograph 10- Campus**

Entrance to the Li Po Chun United World College.



**Photograph 11- Grass/Scrubland**

Former cultivation, now open grass/scrubland adjacent to Cheung Muk Tau.



**Campus Insignificant Impact**

- Remote from works
- Intermediate landscape buffer zone

**Future development**

- Slight adverse impact
- Loss of adjacent buffer planting
- Extension of infrastructure adjacent to development areas

**Glass / Scrubland Insignificant Impact**

- Remote from works
- Intermediate landscape buffer zone

**Reforested Amenity Planting**

- Substantial Adverse Impact
- Severe loss of landscape buffer zone of tree planting
- Replacement of planting by infrastructure

**High-rise Residential Areas**

**Moderate Adverse Impact**

- Loss of adjacent buffer planting
- Extension of infrastructure adjacent to development areas
- Loss of amenity area adjacent to Lee On Estate

**Low-rise Village Settlements**

**Slight Adverse Impact**

- Loss of adjacent buffer planting
- Regrading of neighbouring slopes
- Extension of infrastructure adjacent to villages

- Severe loss of mixed woodland with many native species
- Loss of woodland resource for village
- Regrading of local topography

Prepared by **HASSELL**

Title : Landscape Impacts

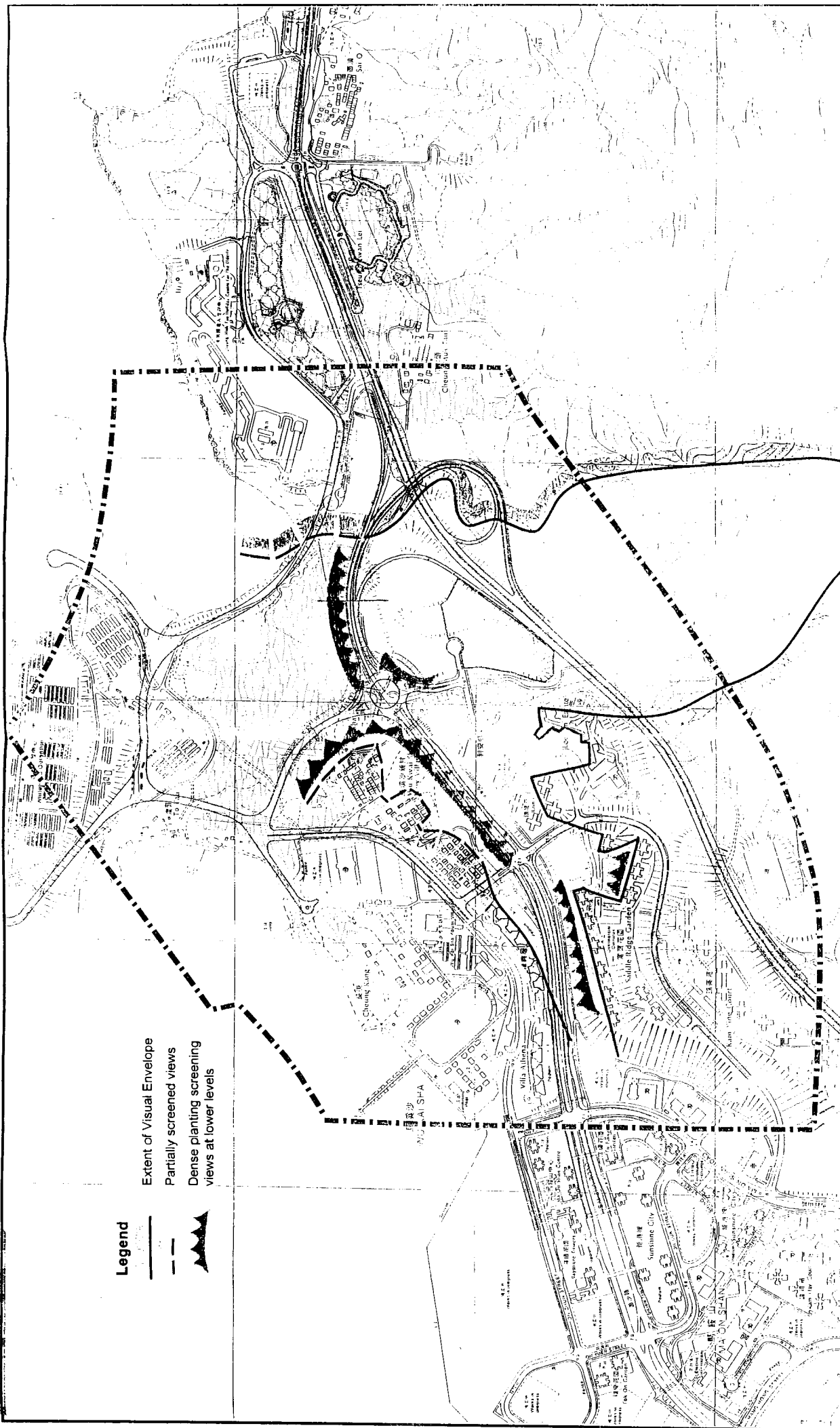
Scale: 1:7500 Date: July 1999

Drawing No. : HKL2387/SK/

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 15 Landscape Impacts

**Legend**

- Extent of Visual Envelope
- - - Partially screened views
- ▲ Dense planting screening views at lower levels



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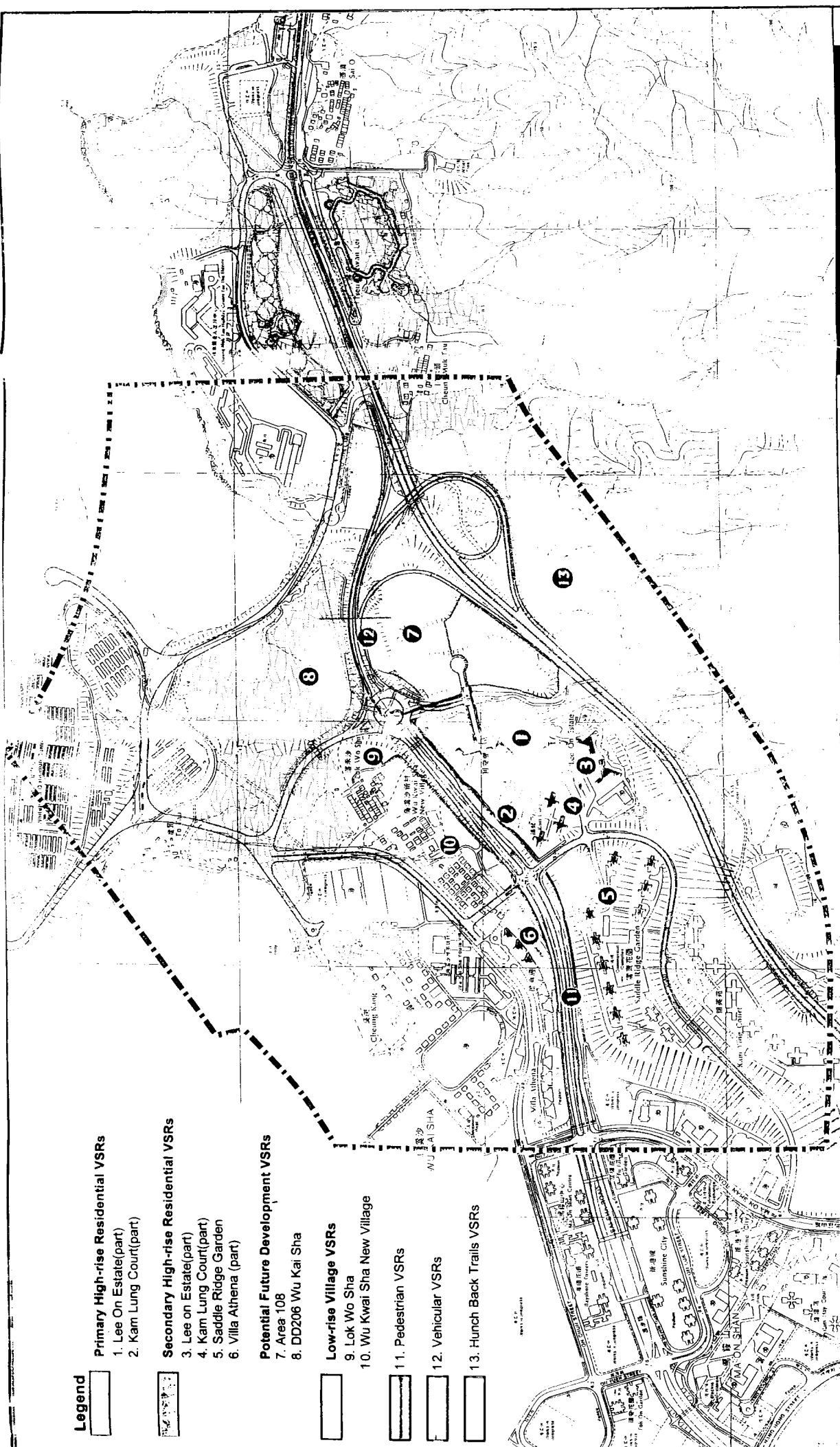
Prepared by **HASSELL**

Title : Extent of Visual Envelope

Scale: 1:7500 Date: July 1998

Drawing No.: HKL2387/ SKI

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 16 Extent of Visual Envelope



**Legend**

**Primary High-rise Residential VSRs**

- 1. Lee On Estate(part)
- 2. Kam Lung Court(part)

**Secondary High-rise Residential VSRs**

- 3. Lee on Estate(part)
- 4. Kam Lung Court(part)
- 5. Saddle Ridge Garden
- 6. Villa Athena (part)

**Potential Future Development VSRs**

- 7. Area 108
- 8. DD206 Wu Kai Sha

**Low-rise Village VSRs**

- 9. Lok Wo Sha
- 10. Wu Kwai Sha New Village

**11. Pedestrian VSRs**

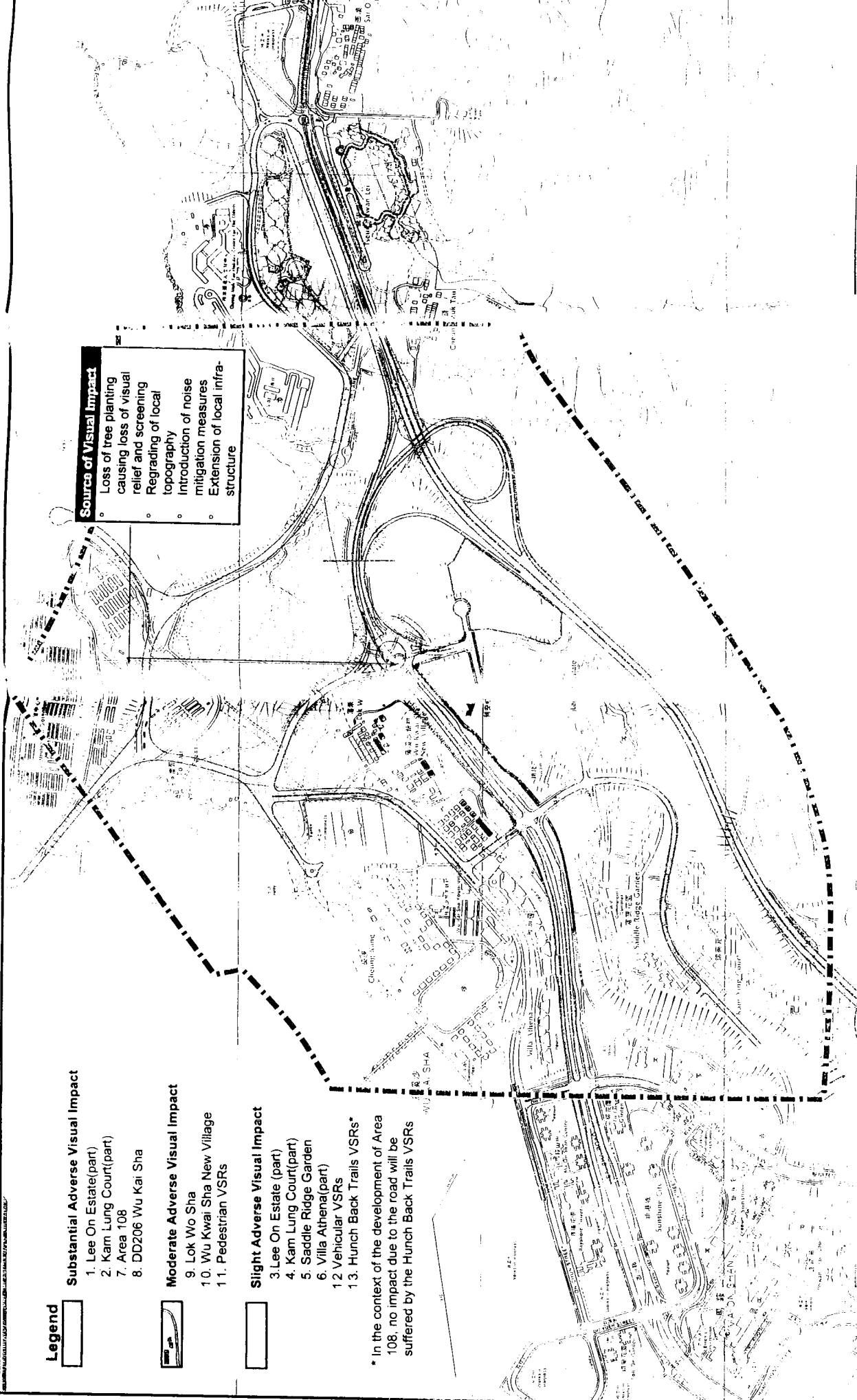
**12. Vehicular VSRs**

**13. Hunch Back Trails VSRs**

Prepared by **HASSELL**  
 Title : Existing Visually Sensitive Receivers  
 Scale : 1:7500 Date: July 1998  
 Drawing No. : HKL23871 SK

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 17 Existing Visually Sensitive Receivers

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**Legend**

**Substantial Adverse Visual Impact**

1. Lee On Estate(part)
2. Kam Lung Court(part)
7. Area 108
8. DD206 Wu Kai Sha

**Moderate Adverse Visual Impact**

9. Lok Wo Sha
10. Wu Kwai Sha New Village
11. Pedestrian VSRs

**Slight Adverse Visual Impact**

3. Lee On Estate (part)
4. Kam Lung Court(part)
5. Saddle Ridge Garden
6. Villa Athena(part)
- 12 Vehicular VSRs
13. Hunch Back Trails VSRs\*

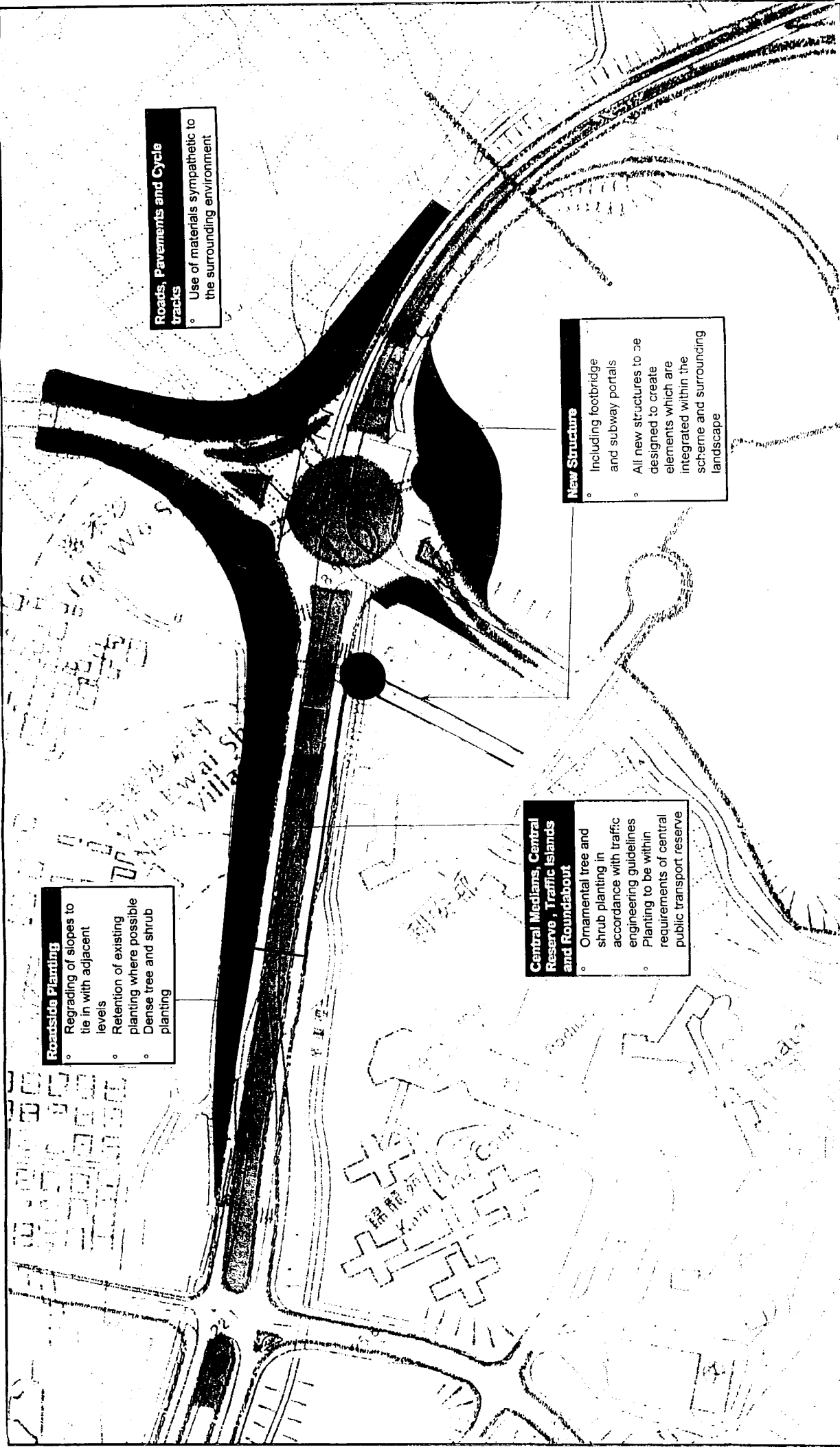
\* In the context of the development of Area 108, no impact due to the road will be suffered by the Hunch Back Trails VSRs

**Source of Visual Impact**

- Loss of tree planting causing loss of visual relief and screening
- Regrading of local topography
- Introduction of noise mitigation measures
- Extension of local infrastructure

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 18 Visual Impacts

Prepared by <b>HASELL</b>	
Title: Visual Impacts	
Scale: 1:7500	Date: July 1998
Drawing No.: HKL2387/ SK	



**Roadside Planting**

- Regrading of slopes to tie in with adjacent levels
- Retention of existing planting where possible
- Dense tree and shrub planting

**Roads, Pavements and Cycle tracks**

- Use of materials sympathetic to the surrounding environment

**Central Medians, Central Reserve, Traffic Islands and Roundabout**

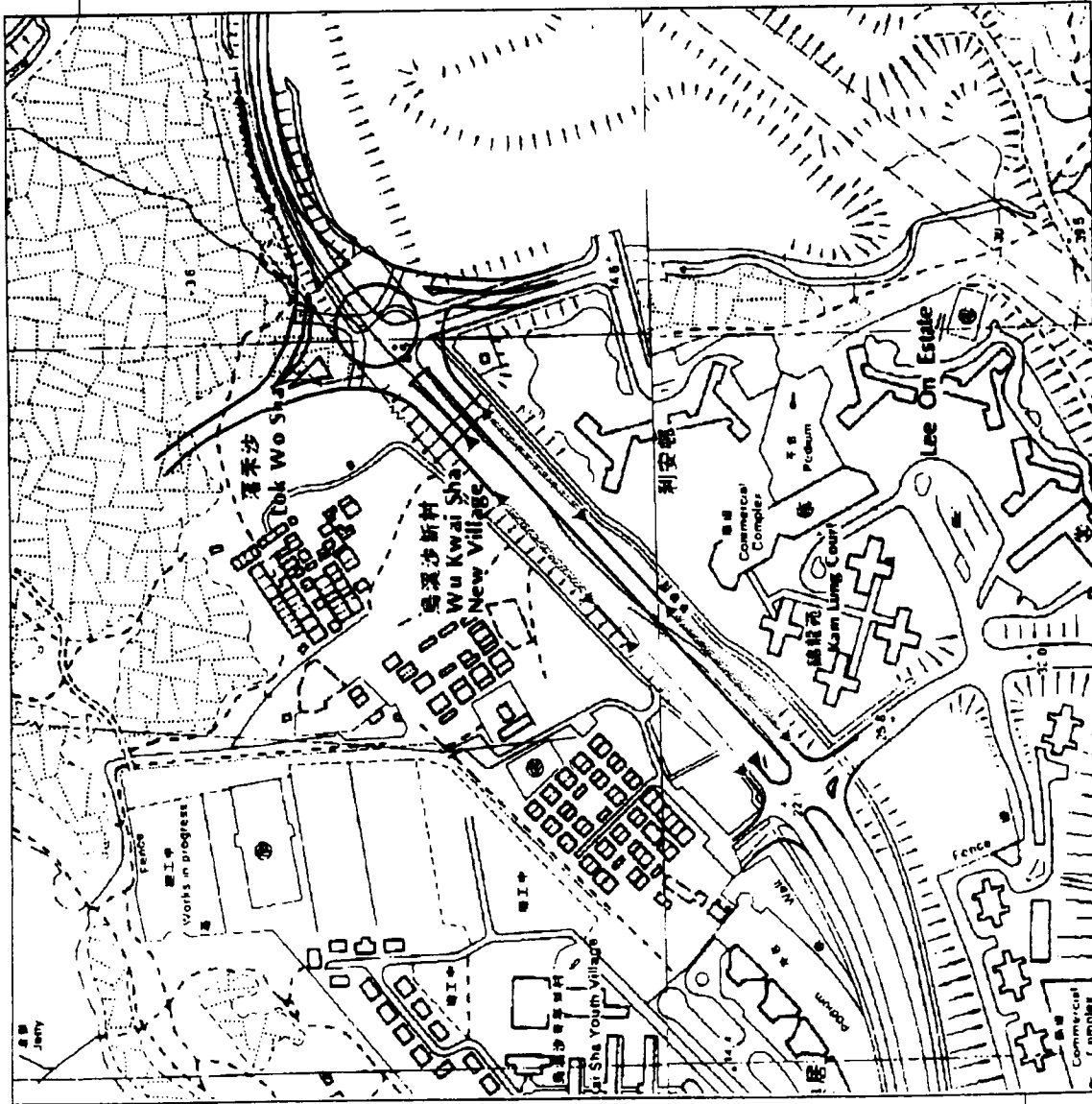
- Ornamental tree and shrub planting in accordance with traffic engineering guidelines
- Planting to be within requirements of central public transport reserve

**New Structure**

- Including footbridge and subway portals
- All new structures to be designed to create elements which are integrated within the scheme and surrounding landscape

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 19 Mitigation Measures

Prepared by: <b>HASSELL</b>	
Title: Mitigation Measures	
Scale: 1:4000	Date: July 1998
Drawing No.: HKL2387/SK	



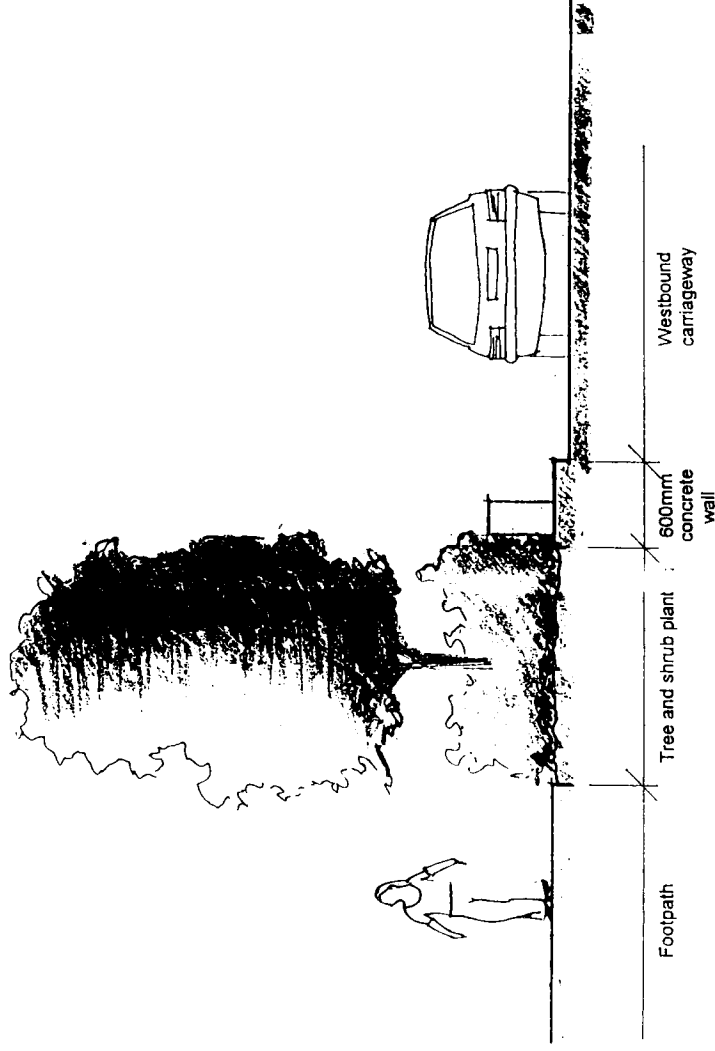
**Legend**

- ▶ *Cantilever absorptive noise barrier.*
- ▶ *Cantilever absorptive noise barrier. Ref Fig. 9.*
- ▶ *5m Cantilever absorptive noise barrier.*
- ▶ *5m vertical absorptive noise barrier.*
- ▶ *600mm concrete Wall.*
- ▶ *Solid abutment below foot bridge.*

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 20 Noise Mitigation Measures

Prepared by: <b>HASSELL</b>	
Title: Noise Mitigation Measures	
Scale: N.T.S.	Date: July 1999
Drawing No.: HKL2387/SK	





Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 21 Noise Mitigation Measures - 600mm Concrete wall

Prepared by **HASSELL**

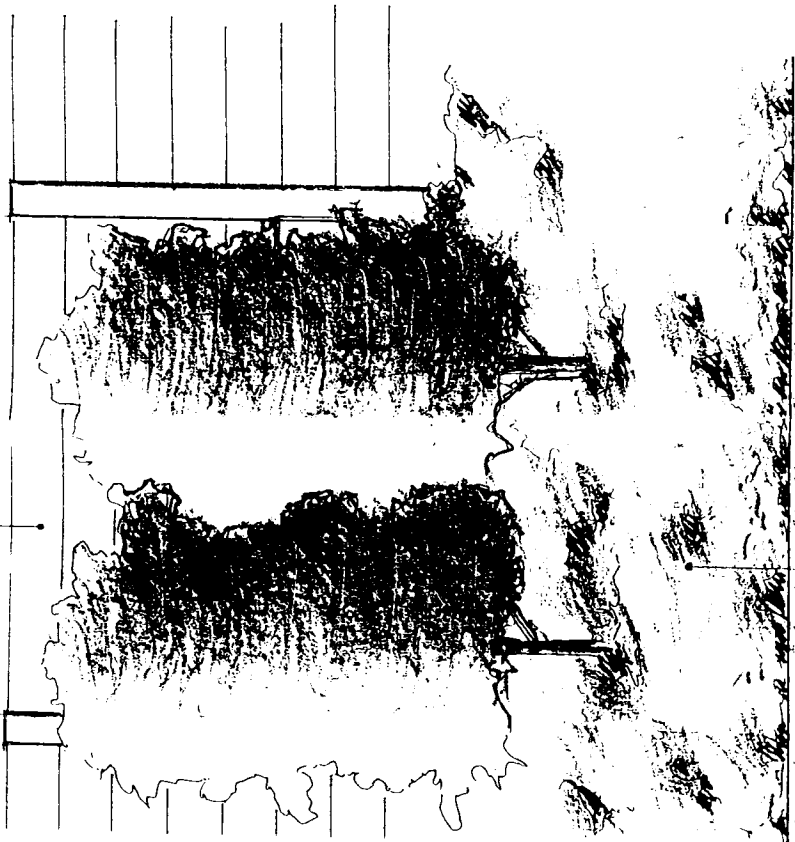
Title: Noise Mitigation Measures -  
 600mm Concrete Wall

Scale: 1:100 Date: Jun 1998

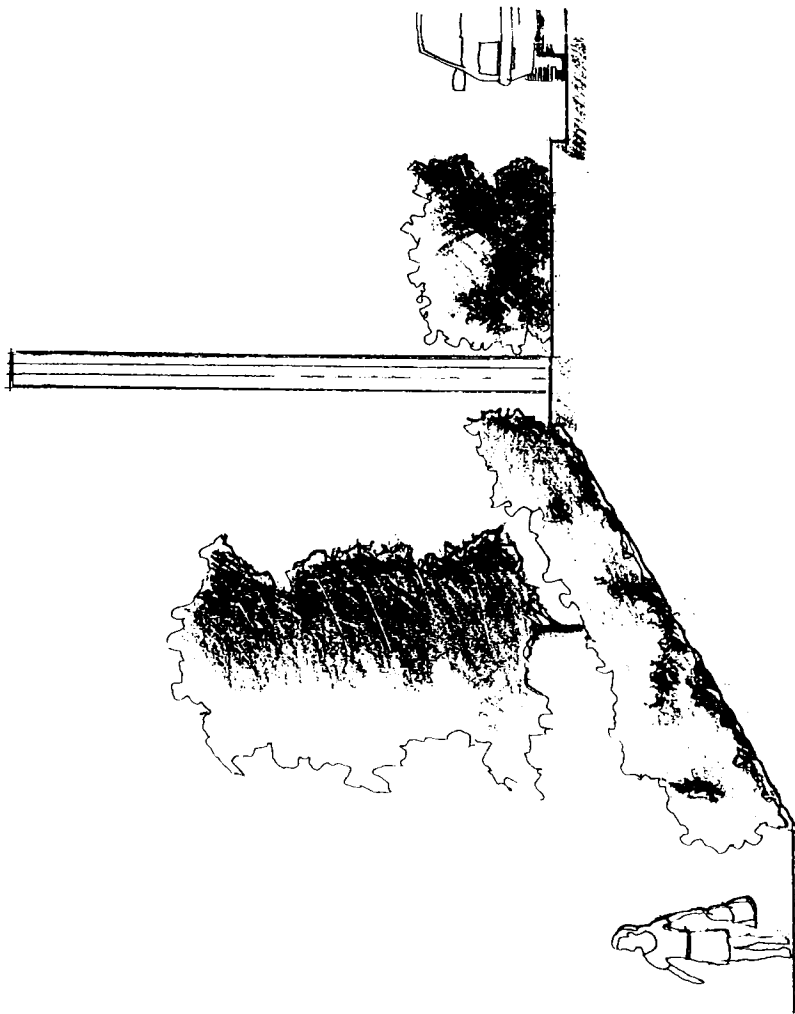
Drawing No.: HKL2387SK/

Maunsell

5m plain noise barrier with absorptive panels



Engineered slope with dense tree and shrub planting



Footpath

Engineered slope with dense tree and shrub planting

5m plain noise barrier with absorptive panels

Amenity planting

Eastbound Carriageway

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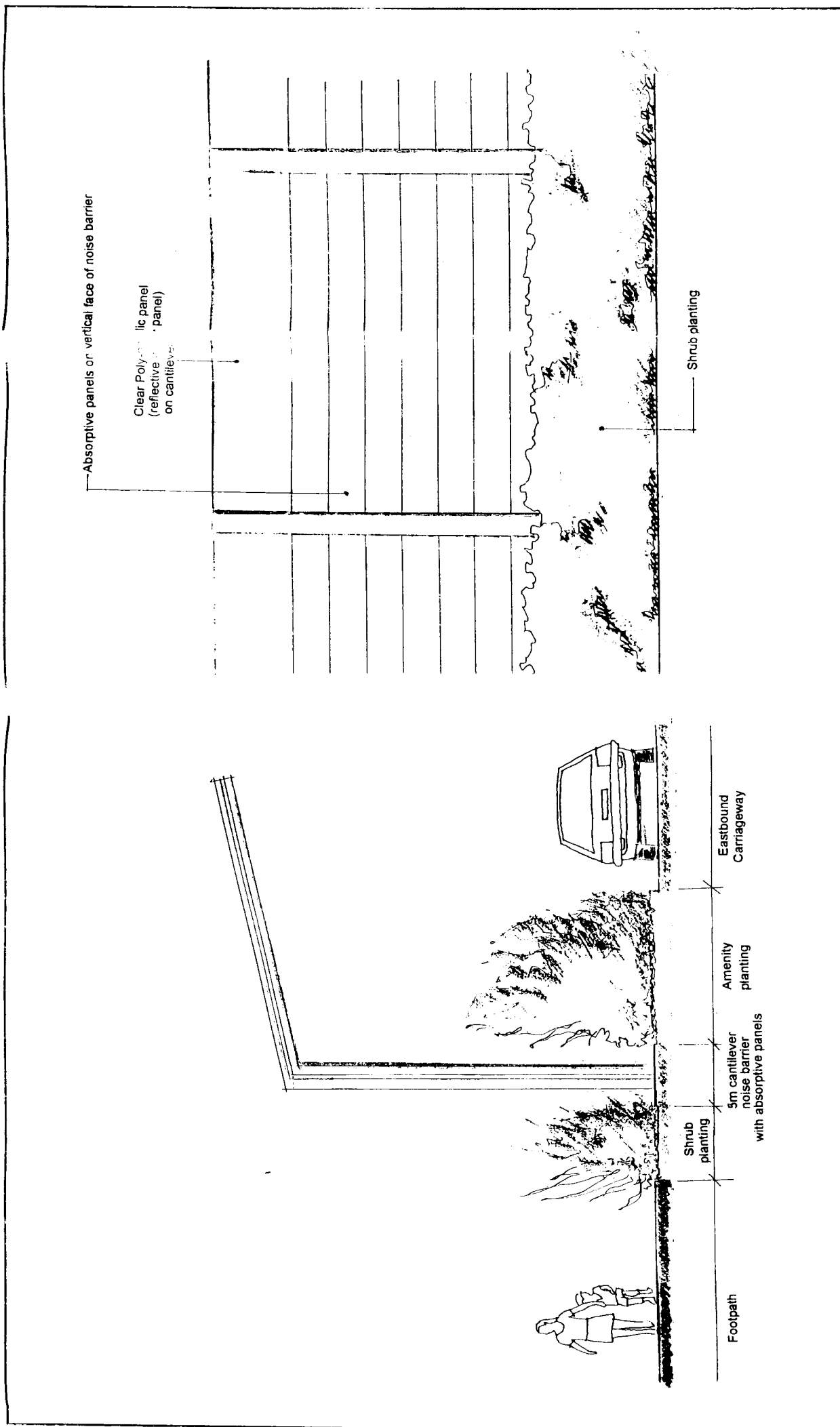
Prepared by **HASSELL**

Title : Noise Mitigation Measures -  
5m Vertical Absorptive Barrier

Scale: 1:50 Date: July 1998

Drawing No. : HKL2387/ SK/

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
Figure 22 Noise Mitigation Measures - 5m Vertical Absorptive Barrier



Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 23 Noise Mitigation - Cantilever Absorptive Barrier

Prepared by **HASSELL**

Title: Noise Mitigation - Cantilever Absorptive Barrier

Scale: 1:50 Date: July 1999

Drawing No.: HKL2387/SK

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Absorptive panels on vertical face of noise barrier

Clear Poly-acrylic panel  
(reflective noise panel)  
on cantilever

Shrub planti-

Eastbound  
Carrageway

Amenity  
planting

4.7m cantilever  
noise barrier  
with  
absorptive  
panels

Shrub  
planting

Footpath

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
Figure 24 Noise Mitigation - Cantilever Absorptive Barrier

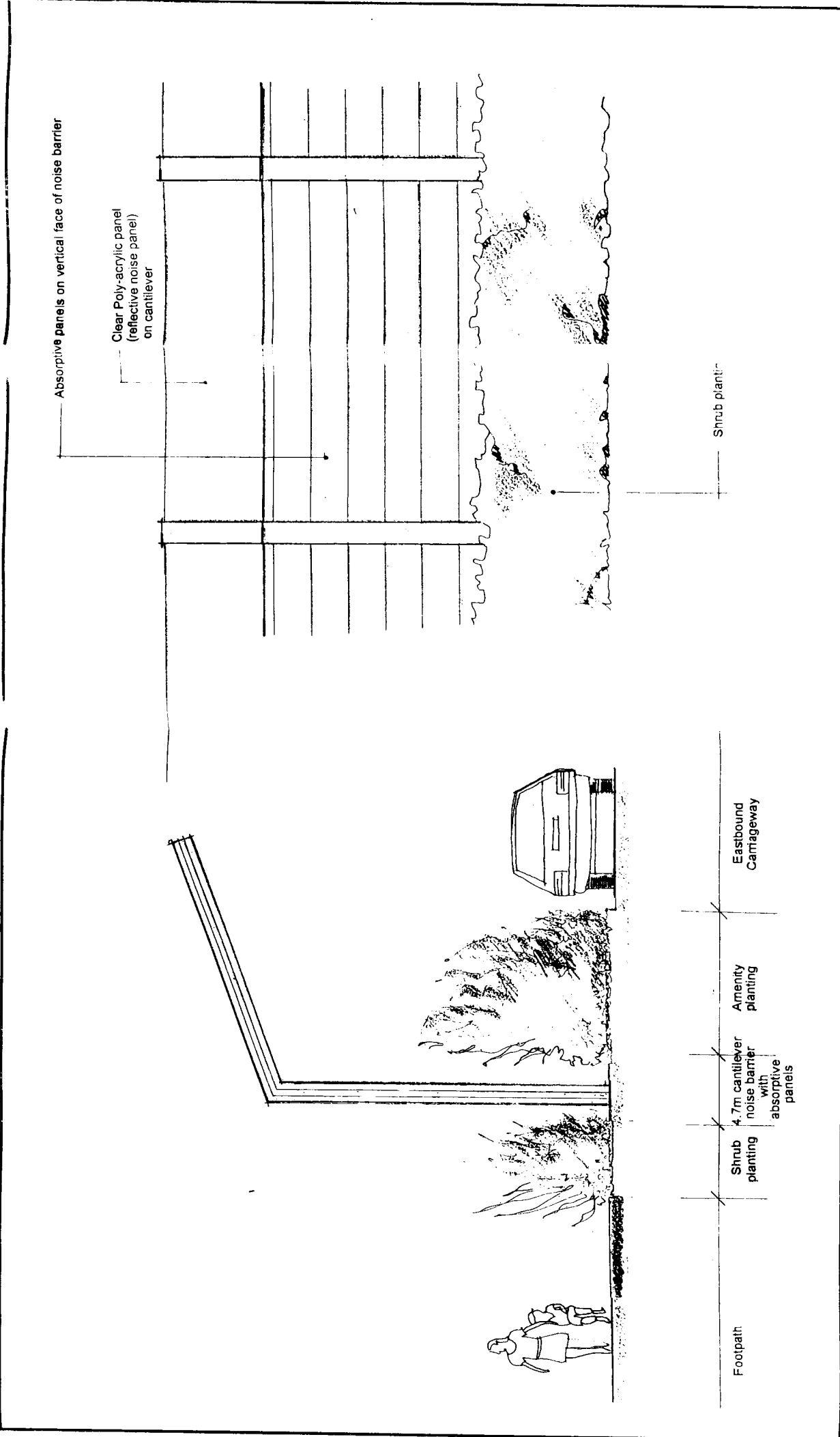
Prepared by: HASSELL

Title: Noise Mitigation -  
Cantilever Absorptive Barrier


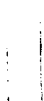



Scale: 1:50 Date: July 1999

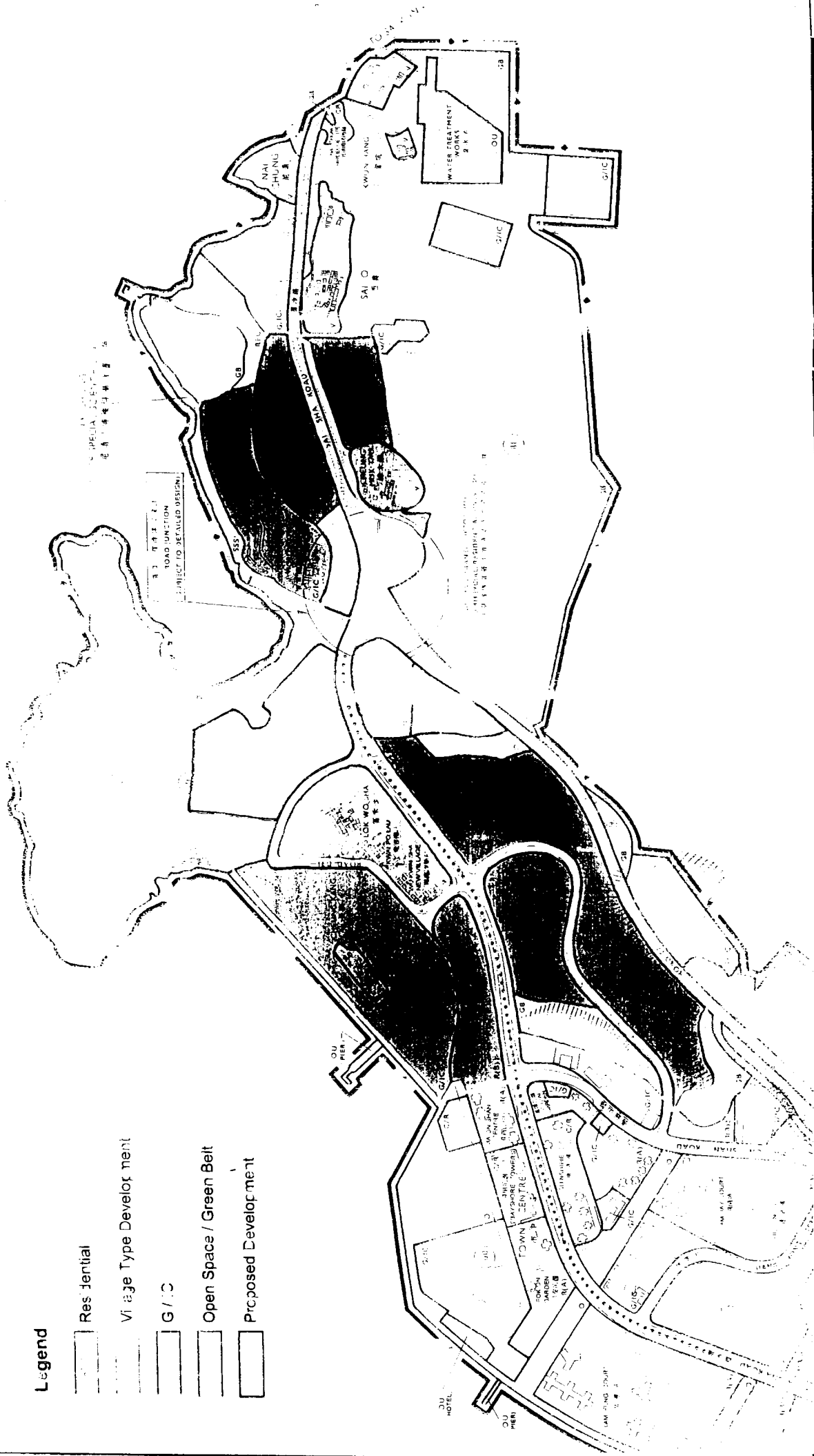
Drawing No.: HKL2387/SK

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**Legend**


-  Residential
-  Village Type Development
-  G/C
-  Open Space / Green Belt
-  Proposed Development




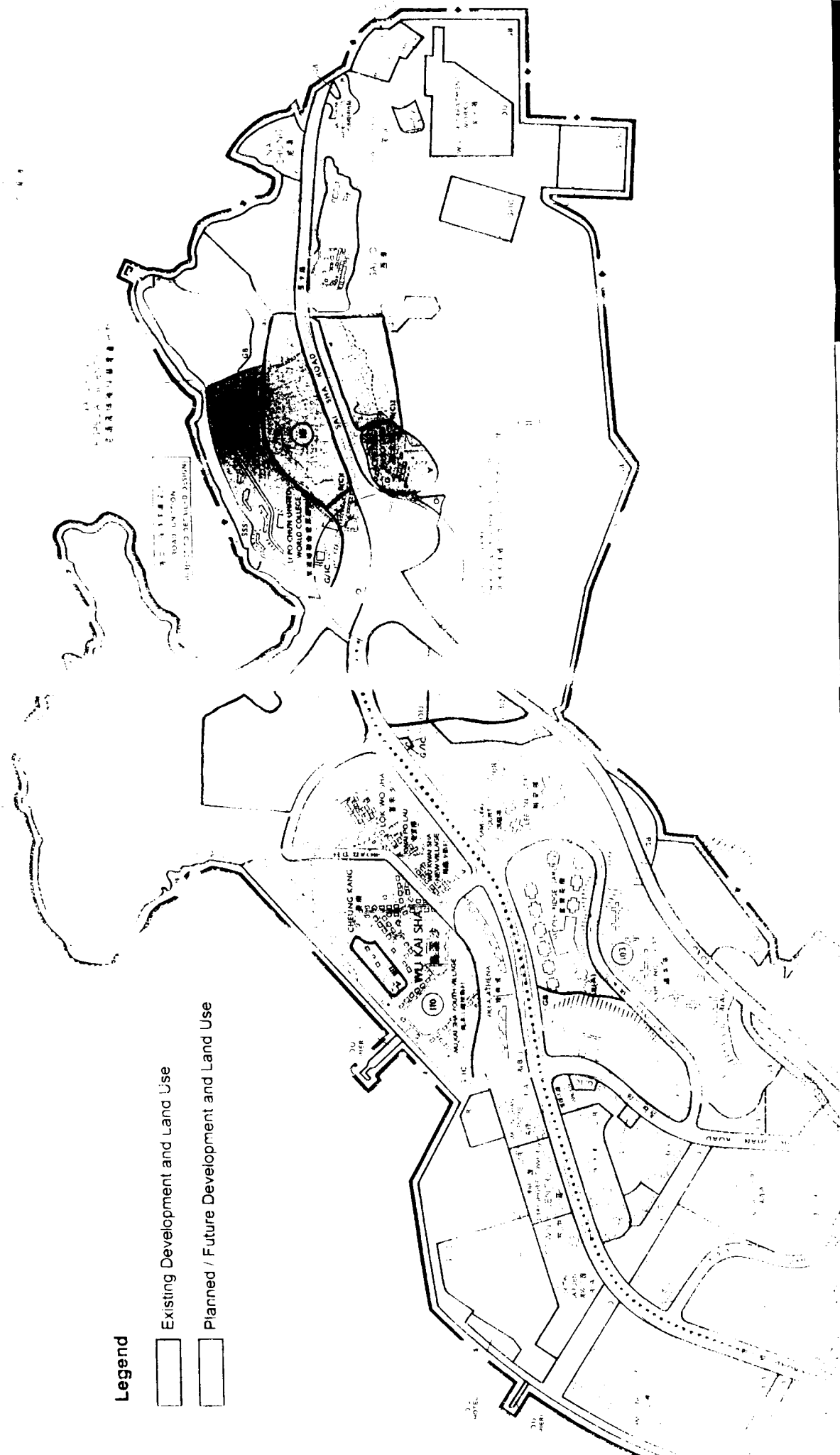
Prepared by <b>HASSELL</b>	
Title	Land Use
Scale: 1:10000	Date: July 1968
Drawing No.:	HKL2387/SK/

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 25 Land Use

**Legend**

 Existing Development and Land Use

 Planned / Future Development and Land Use



Project Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Figure 26 Existing and Planned Land Use

Prepared by **HASSELL**

Title Existing and Planned Land Use

Scale 1:10000 Date July 1998

Drawing No. HKL2387/SK

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PLAN

- 1. EXISTING TREE INDIVIDUALLY IDENTIFIED TO BE RETAINED
- 2. EXISTING TREE INDIVIDUALLY IDENTIFIED TO BE TRANSPLANTED
- 3. EXISTING TREE INDIVIDUALLY IDENTIFIED TO BE FELLED
- 4. TREE GROUP COLLECTIVELY IDENTIFIED TO BE RETAINED
- 5. TREE GROUP COLLECTIVELY IDENTIFIED TO BE FELLED
- 6. PHOTOGRAPHIC VIEWPOINT REFER TO APPENDIX A OF THE REPORT

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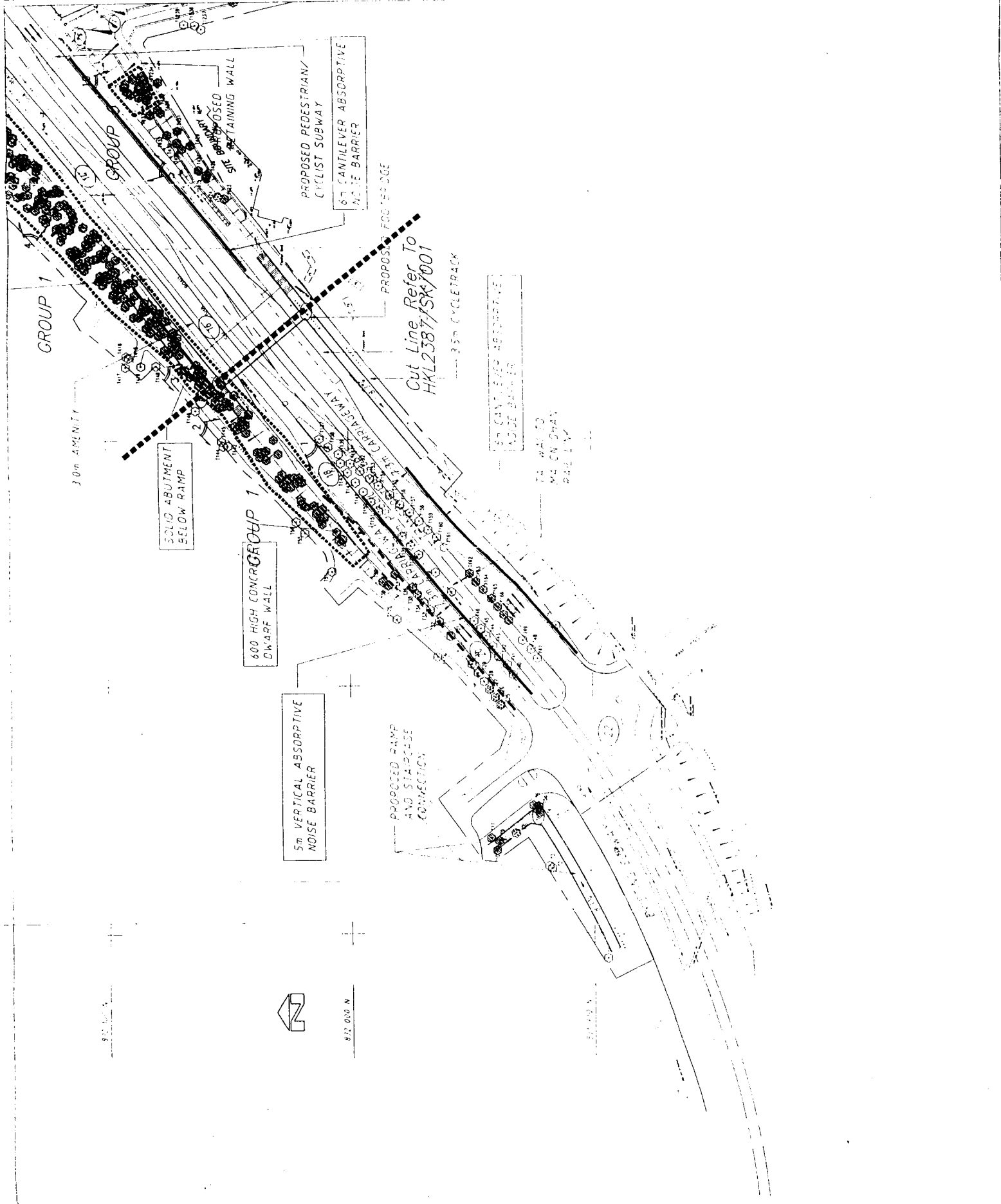


FIG 27

LEGEND

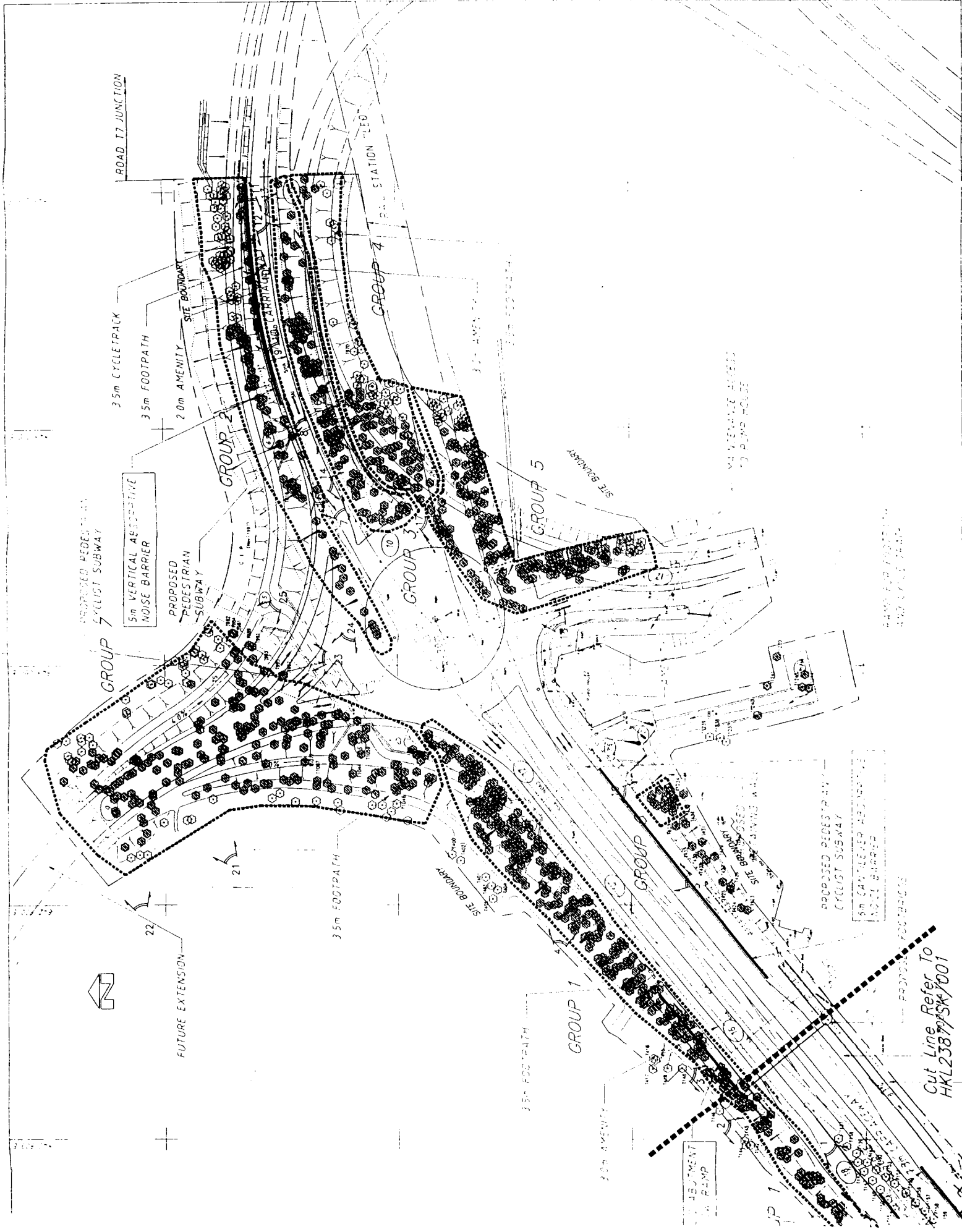
- (Symbol) CONTAINING TREE INDIVIDUALLY IDENTIFIED TO BE RETAINED
- (Symbol) CONTAINING TREE INDIVIDUALLY IDENTIFIED TO BE TRANSPARENT
- (Symbol) CONTAINING TREE INDIVIDUALLY IDENTIFIED TO BE REMOVED
- (Symbol) TREE GROUP COLLECTIVELY ASSESSED TO BE RETAINED
- (Symbol) TREE GROUP COLLECTIVELY ASSESSED TO BE REMOVED
- (Symbol) PHOTOGRAPHIC VIEWPOINT REFER TO APPENDIX A OF THE REPORT

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 香港測量師學會會員  
 HASSSELL

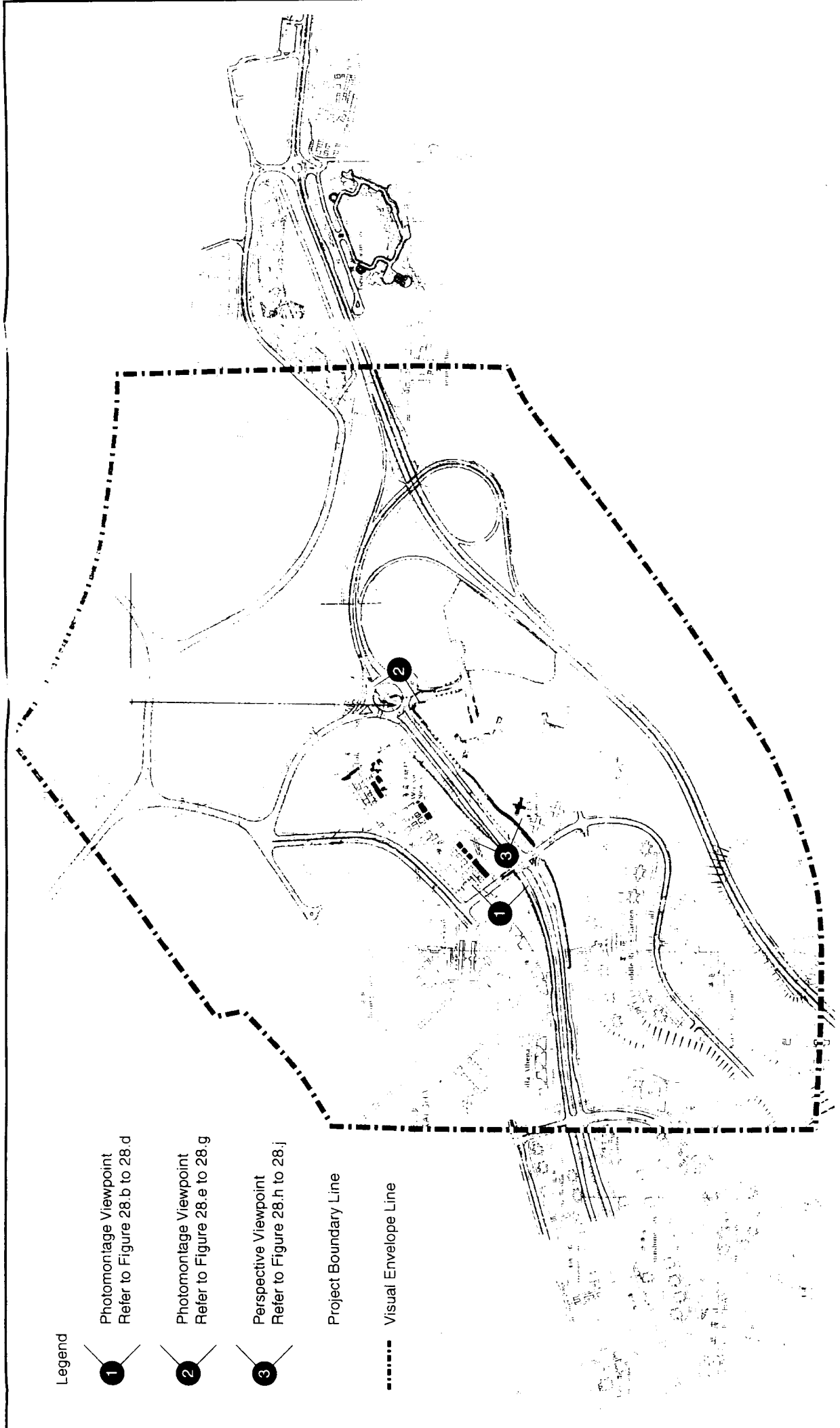
Site: Jha Road Widening Between  
 23m Long, 4752 and Proposed  
 T7 Junction

Tree Survey, Plan 2 of 2

**FIG.27**







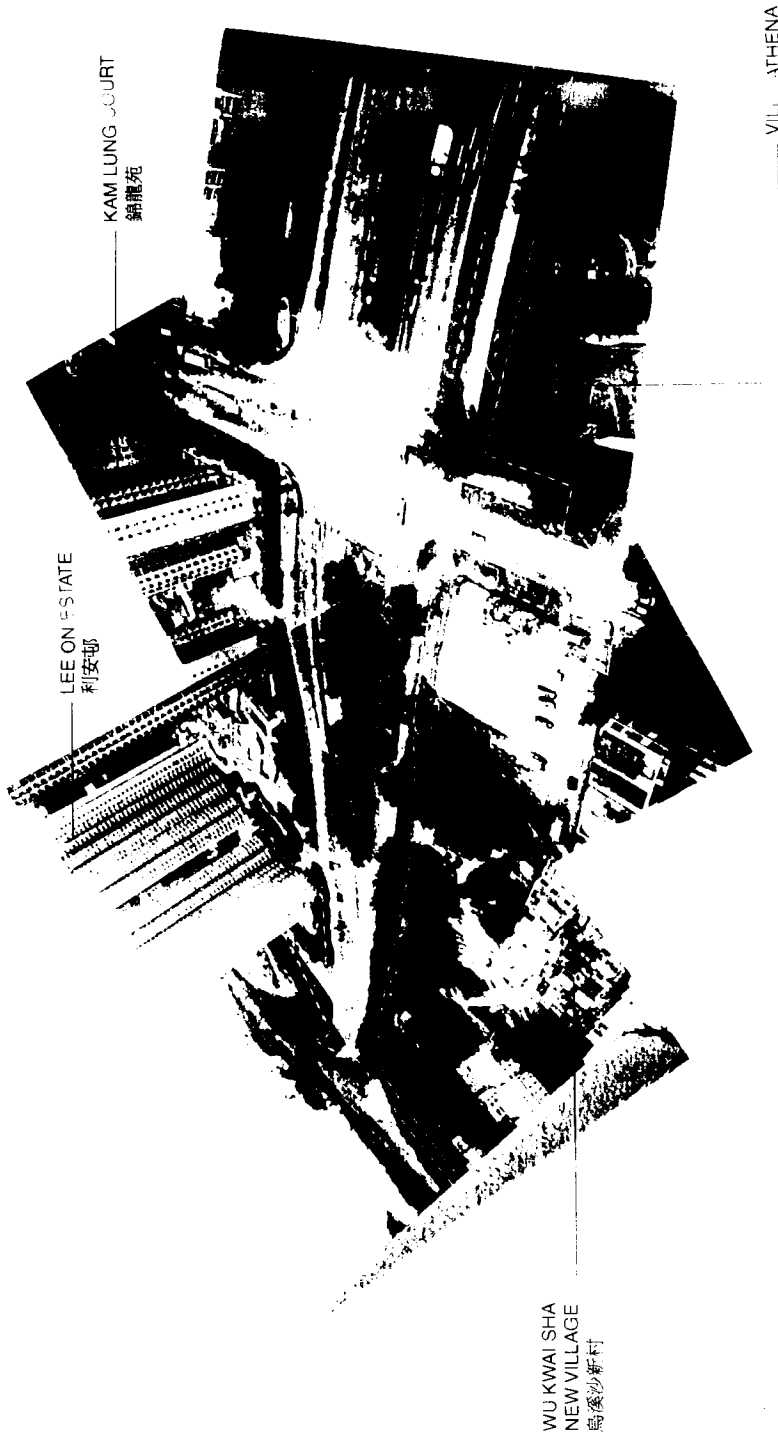
Legend

- ① Photomontage Viewpoint  
Refer to Figure 28.b to 28.d
- ② Photomontage Viewpoint  
Refer to Figure 28.e to 28.g
- ③ Perspective Viewpoint  
Refer to Figure 28.h to 28.j
- Project Boundary Line
- · - · - Visual Envelope Line

Prepared by <b>HASSELL</b>	
Title : Figure 28.a Photomontage Viewpoints	
Scale: N.T.S.	Date: July 1999
Drawing No. : HKL2387/SK/001 Rev. A	

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.a Photomontage Viewpoints



SITE BOUNDARY

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.b Existing View From Villa Athena

Prepared by HASSELL

Title: Figure 28.b Existing View From Villa Athena

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/002

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VILLA ATHENA  
雅仕閣

SITE BOUNDARY

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.c Photomontage From Villa Athena - Day 1

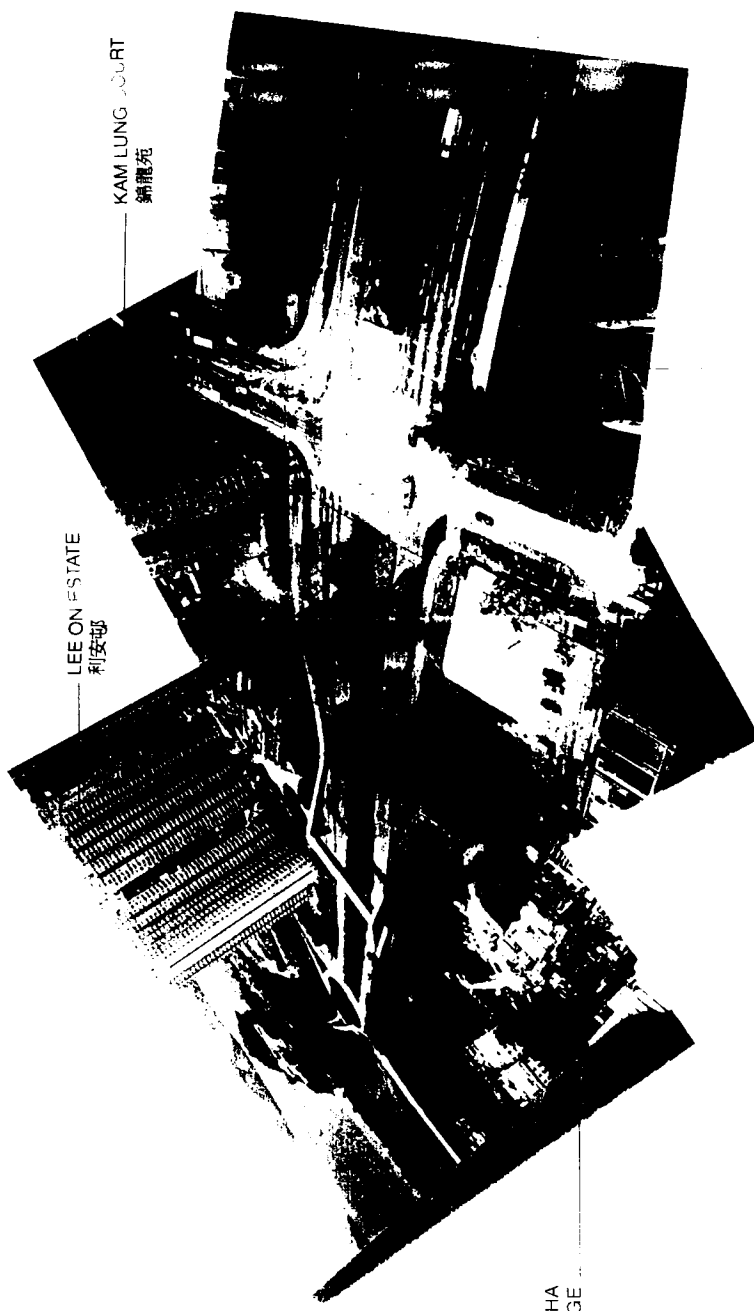
Prepared by **HASSELL**

Title: Figure 28.c Photomontage  
From Villa Athena - Day 1

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/003 Rev. A

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LEE ON ESTATE  
利安邨

KAM LUNG COURT  
錦龍苑

WU KWAI SHA  
NEW VILLAGE  
烏溪沙新村

VILLA ATHENA  
雅琪

SITE BOUNDARY

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.d Photomontage From Villa Athena - Year 10

Prepared by HASSELL

Title: Figure 28.d Photomontage  
From Villa Athena - Year 10

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/004 Rev. A

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SADDLE RIDGE GARDEN  
寶蓮花園

VILLA ATHENA  
雅典居

Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
 Title: Figure 28.e Existing View of Sai Sha Road From The Proposed Roundabout

Prepared by		<b>HASSELL</b>	
Title		Figure 28.e Existing View of Sai Sha Road From The Proposed Roundabout	
Scale	N.T.S.	Date	July 1999
Drawing No.		HKL2387/SK/005	

SADDLE RIDGE GARDEN  
寶蓮花園

VILLA ATHENA  
雅典居



Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.f Photomontage of Sai Sha Road From The Proposed Roundabout - Day 1

Prepared by **HASSELL**

Title: Figure 28.f Photomontage of Sai Sha Road  
From The Proposed Roundabout - Day 1

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/006 Rev. A

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SADDLE RIDGE GARDEN  
寶富花園

VILLA ATHENA  
雅典居



Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title: Figure 28.g Photomontage of Sai Sha Road From The Proposed Roundabout - Year 10

Prepared by **HASSELL**

Title : Figure 28.g Photomontage of Sai Sha Road  
From The Proposed Roundabout - Year 10

Scale: N.T.S. Date: July 1999

Drawing No. : HKL2387/SK/007 Rev. A

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WU KWAI SHA  
NEW VILLAGE  
烏溪沙新村

LEE ON ESTATE  
利安邨



Project:

Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening

Title:

Figure 28.h Existing View of Sai Sha Road From The Junction of Kam Ying Road And Sai Sha Road

Prepared by

HASSELL

Title : Figure 28.h Existing View of Sai Sha Road  
From The Junction of Kam Ying Road And  
Sai Sha Road

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/008

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Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
Title: Figure 28.i Perspective View of Noise Barrier From The Junction of Kam Ying Road And Sai Sha Road - Day 1

Prepared by **HASSELL**

Title : Figure 28.i Perspective View of Noise Barrier From The Junction of Kam Ying Road And Sai Sha Road - Day 1  
Scale: N.T.S. Date: July 1999  
Drawing No.: HKL2387/SK/009 Rev. A

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Project: Agreement No. CE 38/97 PWP Item B645TH Sai Sha Road Widening  
Title: Figure 28.j Perspective View of Noise Barrier From The Junction of Kam Ying Road And Sai Sha Road - Year 10

Prepared by **HASELL**

Title: Figure 28.j Perspective View of Noise Barrier From The Junction of Kam Ying Road And Sai Sha Road - Year 10

Scale: N.T.S. Date: July 1999

Drawing No.: HKL2387/SK/010 Rev.A

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