H 00279

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Your Ref : (3) in EP 2/N7/A/52 Pt.17
Our Ref : (CV/2013/08)/M45/200/(H00279)

8 September 2015

By Hand

Environmental Impact Assessment Ordinance Register Office
Environmental Protection Department
27/F, Southorn Centre,
130 Hennessy Road,
Wanchai, Hong Kong

Attn: Mr. Charles Pang

Dear Sirs,

Contract No. CV/2013/08
Liantang / Heung Yuen Wai Boundary Control Point
Site Formation and Infrastructure Works – Contract 6

Environmental Permit No. EP-404/2011/C
Condition 2.8 – Vegetation Survey Report (Revision 4)

I refer to your above referenced letter dated 10 August 2015 provided with comments on the captioned submission.

With reference to Condition 2.8 of the Environmental Permit (EP) No. EP-404/2011/C for the captioned Project, and on behalf of the Permit Holder, Civil Engineering and Development Department (CEDD), I would like to submit three hard copies of the Vegetation Survey Report for the Project titled "Liantang / Heung Yuen Wai Boundary Control Point and Associated Works", which had been certified by the ET Leader and verified by the IEC for your retention.

Should you have any queries, please contact the undersigned or our Mr. Perry Yam at 2171 3350.

Yours faithfully,

C T Wong
Engineer's Representative
Chief Resident Engineer
AECOM Asia Co. Ltd.

Encl.

c.c. CEDD/BCP - Attn: Mr. Chris Wong / Mr. Steve Lo
AECOM - Attn: Mr. Francis Leong / Mr. Pat Lam
SMEC(IEC) - Attn: Mr. Antony Wong - 1 CD copy
AUES(ET) - Attn: Mr. T W Tam - 1 CD copy

CTW/SL/GW/KL/PY/ysm

Environmental Permit No. EP-404/2011/C Condition 2.8 – Vegetation Survey Report

Responses to EPD's Comments

Ref.: (3) in EP 2/N7/A/52 Pt.17 dated 10 August 2015

Item	Comments	Responses
1	As the vegetation survey for areas under Contract 6 has now been completed, please provide a table in the Report summarizing the number of trees that will be retained, transplanted, or removed for easy reference. As the number of *A.sinensis* felled should be required to be compensated in a ratio not less than 3:1 in the Woodland Compensation Plan under Condition 2.9, such information can be used for cross referencing between the two submissions.	Table 3.1 is renamed to **"Table 3.1 Proposed Treatment to *Aquilaria sinensis* Trees" and "Table 3.2 Summary of Proposed Treatment to *Aquilaria sinensis* Trees"** is added to summarise the number of trees that will be retained, transplanted, or removed for easy reference.
2	There are 130 trees in Table 2.1 but only 129 trees in Table 3.1, in which the tree N320 in Contract 6 cannot be found. Please clarify.	Having reviewed the Initial Survey, N318 and N320 are found missing. Relevant sections and tables have been revised accordingly.

CRBC-CEC-KADEN Joint Venture

Civil Engineering and Development Department

Contract No. CV/2013/08

Liantang/Heung Yuen Wai Boundary Control Point
Site Formation and Infrastructure – Contract 6

Vegetation Survey Report

(Revision 4)

September 2015

SMEC
Local People. Global Experience.

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8 September 2015

Our ref: 7076192/L19167/RY/AB/AW/FL/rw
Your ref:

AECOM
8/F, Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, N.T.

By Email & Post

Attention: Mr Simon LEUNG

Dear Sirs

Agreement No. CE 45/2008 (CE)
Liantang/Heung Yuen Wai Boundary Control Point and Associated Works
Independent Environmental Checker – Investigation
Revised Woodland Compensation Plan (WCP)

With reference to the revised WCP (Rev. 1 dated September 2015) certified by the ET Leader and received by us on 8 September 2015, please be noted that we have no adverse comments on the captioned submission. We herewith verify the captioned submission in accordance with Condition 2.9 of the Environmental Permit No. EP-404/2011/C.

Thank you for your attention and please do not hesitate to contact the undersigned on tel. 3995 8120 or by email to antony.wong@smec.com; or our Mr Francis LEE on tel. 3995 8144 or by email to francis.lee@smec.com.

Yours faithfully
for and on behalf of
SMEC Asia Limited

Antony WONG
Independent Environmental Checker

cc	CEDD/BCP	-	Mr Karl KL Kwan	by fax: 3547 1659
	AECOM	-	Mr Pat LAM / Mr Perry YAM	by email
	AUES	-	Mr TW TAM	by email

ISO 9001:2008 Registered Firm
Certificate No : Q0022

AUES 安順聯合環境服務及顧問
Action-United Environmental Services & Consulting

Our Ref: TCS00670/13/300/L0487

AECOM
8/f Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin, Hong Kong

Attn: Mr. Simon Leung
Engineer's Representative

8 September 2015
By E-mail

Dear Sir,

Re: Agreement No. CE 45/2008 (CE)
Liantang/ Heung Yuen Wai Boundary Control Point and Associated Works
Woodland Compensation Plan (Rev.1)

With reference to the Woodland Compensation Plan received on 8 September 2015, please note that we have no adverse comments on this submission. We herewith certify the Woodland Compensation Plan in accordance with *Condition 2.9* of Environmental Permit (EP) No. EP-404/2011/C.

Should you have any question or require further information, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or E-mail: twtam@fordbusiness.com.

Yours sincerely,
For and on Behalf of
Action-United Environmental Services & Consulting

T. W. Tam
Environmental Team Leader

cc SMEC (IEC) Attn: Mr. Antony Wong By e-mail

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1 INTRODUCTION

Background

1.1 Mott macDonald Hong Kong Ltd. (MMHK) was commissioned by the Civil Engineering and Development Department (CEDD) on 24 April 2009 under Agreement No. CE 45/2008 (CE) to provide professional services to address issues related to the planning, design and construction of the proposed Liantang / Heung Yuen Wai Boundary Control Point and Associated Works (the Project). An Environmental Impact Assessment (EIA) study for the Project was conducted to provide information on the nature and extent of environmental impacts arising from the construction and operation of the Project. The EIA Report was approved on 24 March 2011 and the Environmental Permit (EP No. EP-404/2011) was granted under the Environmental Impact Assessment Ordinance (EIAO) to construct and operate the designated project.

1.2 Under Condition 2.8 of the Environmental Permit a Vegetation Survey Report (VSR) shall be submitted to provide the results of a detailed vegetation survey for the purpose of:

(a) confirming the conditions of individual flora species of conservation importance identified in the EIA Report and during the course of the survey, including *Euonymus kwangtungensis* and *Aquilaria sinensis*; (Habitat Map in the EIA Report showing the Location of *Euonymus kwangtungensis* and *Aquilaria sinensis* is in **Appendix A**)

(b) preparing an updated location plan showing the individual species of conservation importance and identifying the individuals which will be affected by the Project;

(c) identifying suitable treatment for the identified individual species of conservation importance and reception site for transplantation;

(d) recommending an implementation programme for in-situ preservation of the identified species of conservation importance and transplantation of the affected species.

1.3 AECOM Asia Co. Ltd (AECOM) has been commissioned by the Civil Engineering and Development Department to prepare and submit the Vegetation Survey Report.

1.4 This report is to summarize findings of the vegetation survey for the contracts awarded and propose suitable treatment for the plants affected.

Project Scope

1.5 The Project covers the site formation and infrastructures for the LT/HYW, and comprises:

(a) Construction of a dual two-lane trunk road of 11 in length;

(b) On-site sewage treatment facility and effluent reuse;

(c) Site formation for construction of a Boundary Control Point (BCP) building in the area of Chuk Yuen Village;

(d) Associated drainage facilities discharging into the Shenzhen River;

(e) Cargo processing facilities;

(f) Passenger related facilities;

(g) Accommodation for and facilities of the Government departments;

(h) Provision of transport related facilities inside the BCP;

(i) Other peripheral structures and supporting facilities;

(j) Associated diversion / modification works at Lin Ma Hang Road; and

(k) Associated environmental mitigation measures.

Construction Contract Packaging

1.6 To facilitate project management and implementation, the Project will be implemented in the following contract packages: (refer to **Figure 1.0** Project Layout Plan)

- Contract 2 (CV/2012/08)
- Contract 3 (CV/2012/09)
- Contract 4 (TCSS/NE2014/02)
- Contract 5 (CV/2013/03)
- Contract 6 (CV/2013/08)
- Contract 7 (NE/2014/03)

1.7 The details of the contracts are summarized below:

Contract 2	
Contract No.:	CV/2012/08
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 2
Contract Period:	The works commenced in December 2013 and will take about 54 months to complete.
Major Scope of Works:	The works include construction of a dual two-lane trunk road (with about 0.4km of at-grade road and 4.8km of tunnel) connecting the Fanling Interchange with the proposed Sha Tau Kok Interchange, provision and installation of ventilation system, E&M works and building services works for Lung Shan tunnel and Cheung Shan tunnel and their portal buildings, Tunnel Administration Building adjacent to Wo Keng Shan Road and associated landscaping works, drainage / sewerage, waterworks, utilities and traffic engineering works.
Contractor:	Dragages Hong Kong Limited

Contract 3	
Contract No.:	CV/2012/09
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 3
Contract Period:	The works commenced in July 2013 and will take about 63 months to complete.
Major Scope of Works:	The works include construction of four link roads connecting the existing Fanling Highway with the south portal of the Lung Shan

	Tunnel, realignment of the existing Tai Wo Service Road West and Tai Wo Service Road East, widening portion of the existing Fanling Highway and the associated works, demolishment of the existing vehicular bridge and footbridge at Kiu Tau and reconstruction of the Kiu Tau Footbridge.
Contractor:	Chun Wo Construction and Engineering Company Limited

Contract 4	
Contract No.:	NE/2014/02
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 4
Contract Period:	The works are scheduled to commence in Q3 2015.
Major Scope of Works:	The works mainly include provision and installation of Traffic Control and Surveillance System for the connecting road.

Contract 5	
Contract No.:	CV/2013/03
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 5
Contract Period:	The works commenced in April 2013 and will take about 24 months to complete.
Major Scope of Works:	The works include site formation of about 23 hectares of land for the development of the new Boundary Control Point (BCP), diversion/modification of Lin Ma Hang Road, landscaping works, drainage/sewerage, waterworks, utilities and traffic engineering works.
Contractor:	Sang Hing Civil - Richwell Machinery JV

Contract 6	
Contract No.:	CV/2013/08
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 6
Contract Period:	The works commenced in June 2015 and will take about 40 months to complete.
Major Scope of Works:	The works include construction of a 4.6km long dual two-lane trunk road (with about 0.6km at grade roads, 3.3km viaducts and a 0.7km tunnel) connecting Sha Tau Kok Road Interchange to BCP, and the associated environmental mitigation measures, landscaping, drainage/sewerage, waterworks and utilities works.
Contractor:	CRBC-CEC-KADEN Joint Venture

Contract 7	
Contract No.:	NE/2014/03
Contract Name:	Liantang/ Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 7
Contract Period:	The works are scheduled to commence in Q3 2015.
Major Scope of Works:	The works include construction of the Hong Kong Special Administrative Region (HKSAR) portion of four vehicular bridges and one pedestrian bridge crossing Shenzhen (SZ) River (cross boundary bridges).

2 KEY FINDINGS OF THE VEGETATION SURVEY

2.1 A detailed vegetation survey was conducted focuses on confirming and updating the condition of the floral species of conservation importance which will be affected directly under the contracts to confirm the condition of *Aquilaria sinensis* and *Euonymus kwangtungensis* identified in the EIA Report. Vegetation Survey for Contract 2, Contract 3, Contract 5, and Contract 6 was conducted.

2.2 Section 9.5.4 of the EIA Report provided the detailed description of habitats, including *Aquilaria sinensis* within different sections of the Works Area. **Figure 9.1b** of the EIA Report is provided to illustrate the sections of the Works Areas which is given in the following order:

- Section 1 – BCP;
- Section 2 & 3 – Lin Ma Hang to Frontier Closed Area Boundary and Ping Yeung to Wo Keng Shan;
- Section 4 – North Tunnel (Cheung Shan tunnel section);
- Section 5 – Sha Tau Kok Road (between North and South Tunnel);
- Section 6 – South Tunnel (Lau Shui Heung tunnel section); and
- Section 7 – Fanling

Aquilaria sinensis

2.3 *Aquilaria sinensis* were identified in Sections 2 & 3, North of Section 5 (Shan Tong), South of Section 5 (Princess Hill) and Section 7. No *Aquilaria sinensis* was identified in Section 1, Section 4 and Section 6. **Table 2.1** summarizes *Aquilaria sinensis* identified in the EIA Report and the Vegetation Survey.

Table 2.1 ***Aquilaria sinensis*** **identified in the EIA Report and the Vegetation Survey**

Section of Works Area in the EIA Report	EIA Findings (refer to Section 9.5.4)		Vegetation Survey Result				
	Size	Abundance	Relevant Contract in this Project	Trees			Seedling
				Alive	Dead/ Topped	Felled by others/ Missing	
Section 1 - BCP	No	No	Contract 5	0	0	0	0
Section 2 & 3 - Lin Ma Hang to Frontier Closed Area Boundary and Ping Yeung to	Semi-mature	Some	Contract 5 and Contract 6	65	2	6*	5

Wo Keng Shan							
Section 4 – North Tunnel (Cheung Shan Tunnel Section)	No	No	Contract 6	0	0	0	0
Section 5 - Sha Tau Kok Road (between North and South Tunnel) - *Shan Tong*	1.0m tall	1	Contract 6	8	1	0	1
Section 5 - Sha Tau Kok Road (between North and South Tunnel) - *Princess Hill*	Trees	Some	Contract 2	19	5	18	2
Section 6 – South Tunnel (Lau Shui Heung Tunnel Section)	No	No	Contract 2	0	0	0	0
Section 7 – Fanling	Tree	1	Contract 2 and Contract 3	5	0	1	0
			Sub-total	97	8	25	8
			Total		130		8
Notes: Survey had been conducted after Contract 6 awarded in June 2015. *6 numbers of trees were found missing.							

2.4 130 numbers of *Aquilaria sinensis* trees were identified in the Tree Removal Application (TRA) which approved by DLO/N and DLO/TP on 8 August 2013 via DLO/N's memo to CEDD ref. (41) in L/M(5) to DLON 2/61/06 Pt.2 and on 21 October 2013 via DLO/TP's memo to CEDD ref. (11) in LM 6 to DLO/TP 781/173/07 II respectively.

2.5 130 numbers of *Aquilaria sinensis* trees were identified in the vegetation survey in which 49 numbers were within Contract 2, Contract 3 and Contract 5 Works Area and 75 numbers were identified in Contract 6. 6 numbers of trees identified in the TRA were found missing. All the trees identified were summarized in **Table 2.2** with Photographs in **Appendix B**. Damages, mainly wounding in the middle of the trunk, are commonly found which likely due to the illegal extraction of agarwood. A number of trees in Princess Hill area were felled or topped.

Table 2.2 Summary of *Aquilaria sinensis* Trees Identified in the Vegetation Survey

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form
STK1834	9.0	3.5	230	Poor	Poor
STK1865	Felled by others				
STK1887	9.5	5.0	220	Fair	Poor
STK2290	Felled by others				
STK2291	5.0	3.0	110	Poor	Poor
STK2310	Felled by others				
STK2322	7.0	4.5	110	Fair	Poor
STK2472	Felled by others				
STK2479	7.5	9.0	200	Fair	Fair
STK2701	5.5	3.0	188	Fair	Fair
STK2876	-	-	-	Dead	-
STK2879	Felled by others				
STK2900	7.0	4.0	110	Poor	Poor
STK2927	Felled by others				
STK2935	Felled by others				
STK2943	12.0	8.0	350	Poor	Poor
STK2974	-	-	-	Dead	-
STK2984	4.0	3.0	120	Poor	Poor
STK2991	5.0	3.5	120	Poor	Poor

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form
STK3009	9.5	6.0	220	Poor	Poor
STK3013	Felled by others				
STK3014	Felled by others				
STK3107	Felled by others				
STK3114	7.0	3.0	150	Fair	Poor
STK3134	Felled by others				
STK3141	-	-	-	Dead	-
STK3323	Felled by others				
STK3459	7.0	3.0	120	Poor	Poor
STK3542	Felled by others				
STK3618	Felled by others				
STK3630	-	-	-	Dead	-
STK3643	Felled by others				
STK3691	Felled by others				
STK3712	-	-	-	Dead	-
STK3736	9.0	4.0	180	Fair	Poor
STK3768	7.0	4.0	180	Fair	Poor
STK3882	8.0	6.0	200	Fair	Fair
STK4000	8.0	3.0	170	Poor	Poor
STK4017	7.0	4.0	140	Fair	Poor
STK4101	8.0	6.0	135	Fair	Poor
STK4251	Felled by others				
STK4253	Felled by others				
T306	13.0	6.0	470	Fair	Fair
T2163	6.0	2.0	105	Fair	Fair
T2413	7.0	5.0	290	Poor	Poor
U381	14.0	9.0	210	Fair	Fair
U415	Felled by others				
U543	11.0	5.0	280	Poor	Fair
U649	8.0	3.0	330	Poor	Poor
75 Numbers of trees were identified in Contract 6 (81 numbers in TRA)					
N252	Missing				
N306	5.0	3.0	130	Fair	Fair
N313	Missing				
N317	4.0	4.0	110	Fair	Fair
N318	Missing				
N320	Missing				
N326	5.0	3.0	130	Fair	Fair
N327	5.0	3.0	120	Fair	Fair
N330	Missing				
N383	7.0	5.0	270	Fair	Fair
N384	5.0	3.0	110	Fair	Fair
N388	Missing				
N471	4.0	3.0	150	Fair	Fair
N472	6.0	4.0	310	Fair	Fair
N498	6.0	4.0	230	Fair	Fair
STK1548	6.0	4.0	120	Fair	Fair
STK1603	9.0	6.0	250	Fair	Fair
STK1609	9.0	5.0	270	Poor	Poor
STK1679	10.0	6.0	300	Fair	Fair
STK1728	5.0	2.0	150	Fair	Fair
STK2091	10.0	8.0	500	Fair	Fair
STK2121	-	-	-	Dead	-
STK2140	7.0	3.0	155	Fair	Fair
STK2176	11.0	3.5	120	Fair	Fair
T708	14.0	6.0	230	Fair	Fair

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form
T1259A	5.0	3.0	120	Fair	Fair
T1268	9.0	5.0	130	Fair	Fair
T1284	5.0	3.0	140	Fair	Fair
T1344	12.0	7.0	320	Fair	Fair
T1346	13.0	6.0	300	Fair	Fair
T1489	-	-	-	Dead	-
T1503	11.0	8.0	320	Fair	Fair
T1505	9.0	5.0	220	Fair	Fair
T1577	7.0	3.0	190	Fair	Fair
T1579	8.0	5.0	230	Fair	Fair
T1586	7.0	4.0	170	Fair	Fair
T1601	6.0	3.0	100	Fair	Fair
T1602	7.0	4.0	130	Fair	Fair
T1608	5.0	3.0	100	Fair	Fair
T1611	8.0	4.0	150	Fair	Fair
T1628	9.0	5.0	130	Fair	Fair
T1639	7.0	4.0	160	Fair	Fair
T1704	9.0	3.0	110	Fair	Fair
T1818	8.0	3.0	110	Fair	Fair
T1835	12.0	5.0	190	Fair	Fair
T1868	11.0	5.0	210	Fair	Fair
T1877	11.0	5.0	260	Fair	Fair
T1880	8.0	4.0	130	Fair	Fair
T1887	12.0	4.0	200	Fair	Fair
T1906	7.0	4.0	110	Fair	Fair
T1944	10.0	3.0	160	Fair	Fair
T1947	9.0	4.0	160	Fair	Fair
T1993	9.0	4.0	190	Fair	Fair
T2070	8.0	4.0	150	Fair	Fair
T2803	11.0	7.0	250	Fair	Fair
T2812	9.0	5.0	160	Fair	Fair
T2845	10.0	5.0	200	Fair	Fair
T2846	-	-	-	Dead	-
T2854	12.0	4.0	210	Fair	Fair
T2857	7.0	4.0	130	Fair	Fair
T2866	10.0	4.0	150	Fair	Fair
T2901	5.0	2.0	190	Fair	Fair
T2921	7.0	3.0	180	Fair	Fair
T2983	9.0	3.0	250	Fair	Fair
T3007	8.0	3.0	120	Fair	Fair
T3041	8.0	4.0	260	Fair	Fair
T3048	10.0	3.0	200	Fair	Fair
T3053	10.0	4.0	130	Fair	Fair
T3060	7.0	2.0	100	Fair	Fair
T3149	9.0	2.0	180	Fair	Fair
T3184	8.0	2.0	100	Fair	Fair
T3219	10.0	3.0	200	Fair	Fair
T3225	5.0	2.0	100	Fair	Fair
T3247	10.0	7.0	340	Fair	Fair
T3260	8.0	3.0	100	Fair	Fair
T3261A	9.0	3.0	190	Fair	Fair
T3262	9.0	4.0	140	Fair	Fair
T3282	11.0	6.0	220	Fair	Fair
T3287	8.0	7.0	290	Fair	Fair
T3318	7.0	3.0	130	Fair	Fair
T3330	8.0	4.0	180	Fair	Fair

2.6 Eight numbers of seedlings were identified. **Table 2.3** summaries the details of the seedlings with photographs in **Appendix B**.

Table 2.3 Summary of *Aquilaria sinensis* Seedlings Identified in the Vegetation Survey

Seedling No.	Ht. (mm)	Spd. (mm)	Health Condition
AS01	400	300	Fair
AS02	300	300	Fair
AS03	200	200	Fair
Seedlings Identified in Contract 6			
AS04	300	200	Fair
AS05	100	100	Fair
AS06	200	150	Fair
AS07	50	50	Fair
AS08	150	100	Fair

Euonymus kwangtungensis

2.7 Two individuals of *Euonymus kwangtungensis* were recorded within the Works Area of Section 5 – Sha Tau kok Road (between North and South Tunnel) in EIA Report. Two individual plants of 600mm~900mm in height were found in Princess Hill. **Table 2.4** summarised *Euonymus kwangtungensis* identified in the vegetation survey with photographs in **Appendix C**.

Table 2.4 Summary of *Euonymus kwangtungensis* Identified in the Vegetation Survey

Plant No.	Ht. (mm)	Spd. (mm)	Health Condition
EK01	900	400	Fair
EK02	600	300	Fair

2.6 An updated location plan is in **Appendix D** showing the *Aquilaria sinensis* trees and seedlings and *Euonymus kwangtungensis* identified in the Survey and will be affected by the Project.

3 PROPOSED SUITABLE TREATMENT

Aquilaria sinensis

3.1 Trees are retained in-situ where possible. For trees in conflict with construction works, transplantation is recommended if they are considered suitable for transplanting. Felling is recommended for trees which cannot be transplanted or not suitable for transplanting due to various reasons. For example, trees growing on slope are difficult to form an intact and sufficient-sized rootball and trees with poor health condition and significant structural problem. Trees in both cases are not transplantable and hence felling is recommended. The felling of these trees under the previous tree removal application have been separately approved by the DLO/N and DLO/TP on 8 August 2013 via DLO/N's memo to CEDD ref. (41) in L/M(5) to DLON 2/61/06 Pt.2 and on 21 October 2013 via DLO/TP's memo to CEDD ref. (11) in LM 6 to DLO/TP 781/173/07 II respectively. **Table 3.1** and **Table 3.2** summarised the proposed treatment and actual status of *Aquilaria sinensis* identified in the Survey.

Table 3.1 Proposed Treatment to *Aquilaria sinensis* Trees

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form	Proposed Treatment	Justification	Status
Trees not in conflict with Construction and to be Retained								
STK1834	9.0	3.5	230	Poor	Poor	Retain	N/A	Removed on 3/4/2014*
STK1887	9.5	5.0	220	Fair	Poor			Retained
STK3114	7.0	3.0	150	Fair	Poor			
STK3459	7.0	3.0	120	Poor	Poor			
STK3882	8.0	6.0	200	Fair	Fair			
T306	13.0	6.0	470	Fair	Fair			
T2163	6.0	2.0	105	Fair	Fair			
T2413	7.0	5.0	290	Poor	Poor			
U381	14.0	9.0	210	Fair	Fair			
U543	11.0	5.0	280	Poor	Fair			
U649	8.0	3.0	330	Poor	Poor			
Trees Identified in Contract 6								
STK1548	6.0	4.0	120	Fair	Fair	Retain	N/A	Retained
N383	7.0	5.0	270	Fair	Fair			
N384	5.0	3.0	110	Fair	Fair			
N471	4.0	3.0	150	Fair	Fair			
N472	6.0	4.0	310	Fair	Fair			
N498	6.0	4.0	230	Fair	Fair			
T708	14.0	6.0	230	Fair	Fair			
T1868	11.0	5.0	210	Fair	Fair			
T1944	10.0	3.0	160	Fair	Fair			
T1947	9.0	4.0	160	Fair	Fair			
T2803	11.0	7.0	250	Fair	Fair			
T2812	9.0	5.0	160	Fair	Fair			
T2901	5.0	2.0	190	Fair	Fair			
T2921	7.0	3.0	180	Fair	Fair			
Trees in conflict with Construction and Suitable for Transplantation								
STK2701	5.5	3.0	188	Fair	Fair	On Site Transplant	Suitable for Transplant	Transplanted on 12/5/2014
STK3736	9.0	4.0	180	Fair	Poor			
Trees Identified in C6								
STK1609	9.0	5.0	270	Fair	Fair	On Site Transplant	Suitable for Transplant	Not yet Transplant
N317	4.0	4.0	110	Fair	Fair			
T1268	9.0	5.0	130	Fair	Fair			
T1503	11.0	8.0	320	Fair	Fair			
T1608	5.0	3.0	100	Fair	Fair			
T1628	9.0	5.0	130	Fair	Fair			
T1639	7.0	4.0	160	Fair	Fair			
T1704	9.0	3.0	110	Fair	Fair			
T1818	8.0	3.0	110	Fair	Fair			
T1835	12.0	5.0	190	Fair	Fair			
T1906	7.0	4.0	110	Fair	Fair			
T2845	10.0	5.0	200	Fair	Fair			
T2854	12.0	4.0	210	Fair	Fair			
T2857	7.0	4.0	130	Fair	Fair			
T2866	10.0	4.0	150	Fair	Fair			
T3007	8.0	3.0	120	Fair	Fair			
T3184	8.0	2.0	100	Fair	Fair			
T3225	5.0	2.0	100	Fair	Fair			

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form	Proposed Treatment	Justification	Status
T3260	8.0	3.0	100	Fair	Fair			
T3262	9.0	4.0	140	Fair	Fair			
T3282	11.0	6.0	220	Fair	Fair			
T3287	8.0	7.0	290	Fair	Fair			
T3318	7.0	3.0	130	Fair	Fair			
T3330	8.0	4.0	180	Fair	Fair			
Trees in conflict with Construction and to be Felled due to various reasons								
STK2291	5.0	3.0	110	Poor	Poor		Low survival rate after transplanting	Felled on 13/4/2014
STK2322	7.0	4.5	110	Fair	Poor		Difficult to form rootball on slope	Felled on 13/4/2014
STK2479	7.5	9.0	200	Fair	Fair		Difficult to form rootball on slope	Felled on 15/4/2014
STK2900	7.0	4.0	110	Poor	Poor		Low survival rate after transplanting	Felled on 14/4/2014
STK2943	12.0	8.0	350	Poor	Poor		Low survival rate after transplanting	Felled on 11/4/2014
STK2984	4.0	3.0	120	Poor	Poor		Low survival rate after transplanting	Felled on 12/4/2014
STK2991	5.0	3.5	120	Poor	Poor	Fell	Low survival rate after transplanting	Felled on 12/4/2014
STK3009	9.5	6.0	220	Poor	Poor		Low survival rate after transplanting	Felled on 12/4/2014
STK3768	7.0	4.0	180	Fair	Poor		Difficult to form rootball on slope	Felled on 9/6/2014
STK4000	8.0	3.0	170	Poor	Poor		Difficult to form rootball on slope	Felled on 17/4/2014
STK4017	7.0	4.0	140	Fair	Poor		Roots integrated with graveyard nearby	Felled on 11/4/2014
STK4101	8.0	6.0	135	Fair	Poor		Difficult to form rootball on slope	Felled on 17/4/2014
Trees Identified in C6								
STK1603	9.0	6.0	250	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
STK1679	10.0	6.0	300	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
STK1728	5.0	2.0	150	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
STK2091	10.0	8.0	500	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
STK2140	7.0	3.0	155	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
STK2176	11.0	3.5	120	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
N306	5.0	3.0	130	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
N326	5.0	3.0	130	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
N327	5.0	3.0	120	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1259A	5.0	3.0	120	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1284	5.0	3.0	140	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1344	12.0	7.0	320	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1346	13.0	6.0	300	Fair	Fair	Fell	Low survival rate	Not yet

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form	Proposed Treatment	Justification	Status
							after transplanting	felled
T1505	9.0	5.0	220	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1577	7.0	3.0	190	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1579	8.0	5.0	230	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1586	5.0	2.0	170	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1601	6.0	3.0	100	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
T1602	7.0	4.0	130	Fair	Fair	Fell	Difficult to form rootball on slope	Not yet felled
T1611	8.0	4.0	150	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1877	11.0	5.0	260	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1880	8.0	4.0	130	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1887	12.0	4.0	200	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T1993	9.0	4.0	190	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T2070	8.0	4.0	150	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T2983	9.0	3.0	250	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3041	8.0	4.0	260	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3048	10.0	3.0	200	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3053	10.0	4.0	130	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3060	7.0	2.0	100	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3149	9.0	2.0	180	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3219	10.0	3.0	200	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3247	10.0	7.0	340	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
T3261A	9.0	3.0	190	Fair	Fair	Fell	Low survival rate after transplanting	Not yet felled
Trees found Dead								
STK2876	-	-	-	Dead	-	Fell	N/A	
STK2974	-	-	-		-			
STK3141	-	-	-		-			
STK3630	-	-	-		-			
STK3712	-	-	-		-			
Trees Identified in C6								
STK2121	-	-	-	Dead	-	Fell	N/A	
T1489						Retain		
T2846	-	-	-		-	Transplant		
Trees found Felled by Others								
STK1865	Felled by others					N/A	N/A	
STK2290								
STK2310								

Tree No.	Ht. (m)	Spd. (m)	DBH (mm)	Health	Form	Proposed Treatment	Justification	Status
STK2472								
STK2879								
STK2927								
STK2935								
STK3013								
STK3014	Felled by others					N/A	N/A	
STK3107								
STK3134								
STK3323								
STK3542								
STK3618								
STK3643								
STK3691								
STK4251								
STK4253								
U415								
Trees found Missing in Contract 6								
N252	Missing					N/A	N/A	
N313								
N318								
N320								
N330								
N388								
Notes: *STK1834 was identified as a hazardous tree with a high risk of failure during tree risk assessment. Therefore, it was removed.								

Table 3.2 Summary of Proposed Treatment to *Aquilaria sinensis* Trees

Number of Trees to be Retained	25
Number of Trees Suitable for Transplantation	26
Number of Trees to be Felled	46
Number of Trees found Dead	8
Number of Trees found Felled by Others	19
Number of Trees found Missing	6
Total	130

3.2 In-situ preservation of *Aquilaria sinensis* seedlings around trees to be retained is recommended. Seedlings around trees to be felled and transplanted identified during the process will be collected and transplanted to a nursery area. A Woodland compensation Area (WCA) was proposed in the EIA Report. It is recommended to transplant the *Aquilaria sinensis* seedlings from the nursery to the Woodland compensation Area when the area is ready.

3.3 The proposed Woodland Compensation Area in the EIA Report is shown in **Appendix E**. A Woodland Compensation Plan will be submitted separately to set out the planting strategy for the establishment of the habitats and subsequent maintenance and monitoring requirements for the WCA.

Euonymus kwangtungensis

3.4 The two individuals of *Euonymus kwangtungensis* identified in the Survey will be affected by construction works. It is recommended to transplant the individuals directly to a nearby suitable reception site within the Project limit with similar habitat where will not be affected by construction activities. The proposed reception site is shown in **Appendix F**.

4 IMPLEMENTATION PROGRAMME

Aquilaria sinensis

4.1 A nursery will be identified for holding the trees and seedlings for future transplantation. Transplantation of trees will be conducted with the overall landscaping works target in 2017. Seedlings will be planted in the Woodland Compensation Area. Planting details and schedule will be specified in the Woodland Compensation Plan.

4.2 Trees identified for In-situ preservation will be protected by temporary protective fencing. No site works will be carried out within the tree protection zone. Monitoring with photographic record will be conducted once per two months.

4.3 The transplanted trees and seedlings will be held in a nursery until transplanted to their final location. The Contractor will carry out necessary arboricultural work to maintain the transplanted trees in healthy condition during the holding period. After transplanting to their final locations, the transplanted trees will be maintained immediately by the Contractor and the maintenance will include watering, application of root activator and fertilizing. All the transplanted trees will be monitored once per month for their health condition until the expiry of the establishment period.

4.4 The transplanted seedlings will be monitored at least twice a month during the first year and once a month for the remaining of the planting period of the Woodland Compensation Area. The parameters to be monitored will include the health condition and survival rate of the transplanted species. Any observations and recommendations will be reported in periodic EM&A reports.

Euonymus kwangtungensis

4.5 The two *Euonymus kwangtungensis* plants will be transplanted before commencement of works at the subject location. The transplanted individual will be monitored twice a month during the first year and once a month for the remaining contract period.

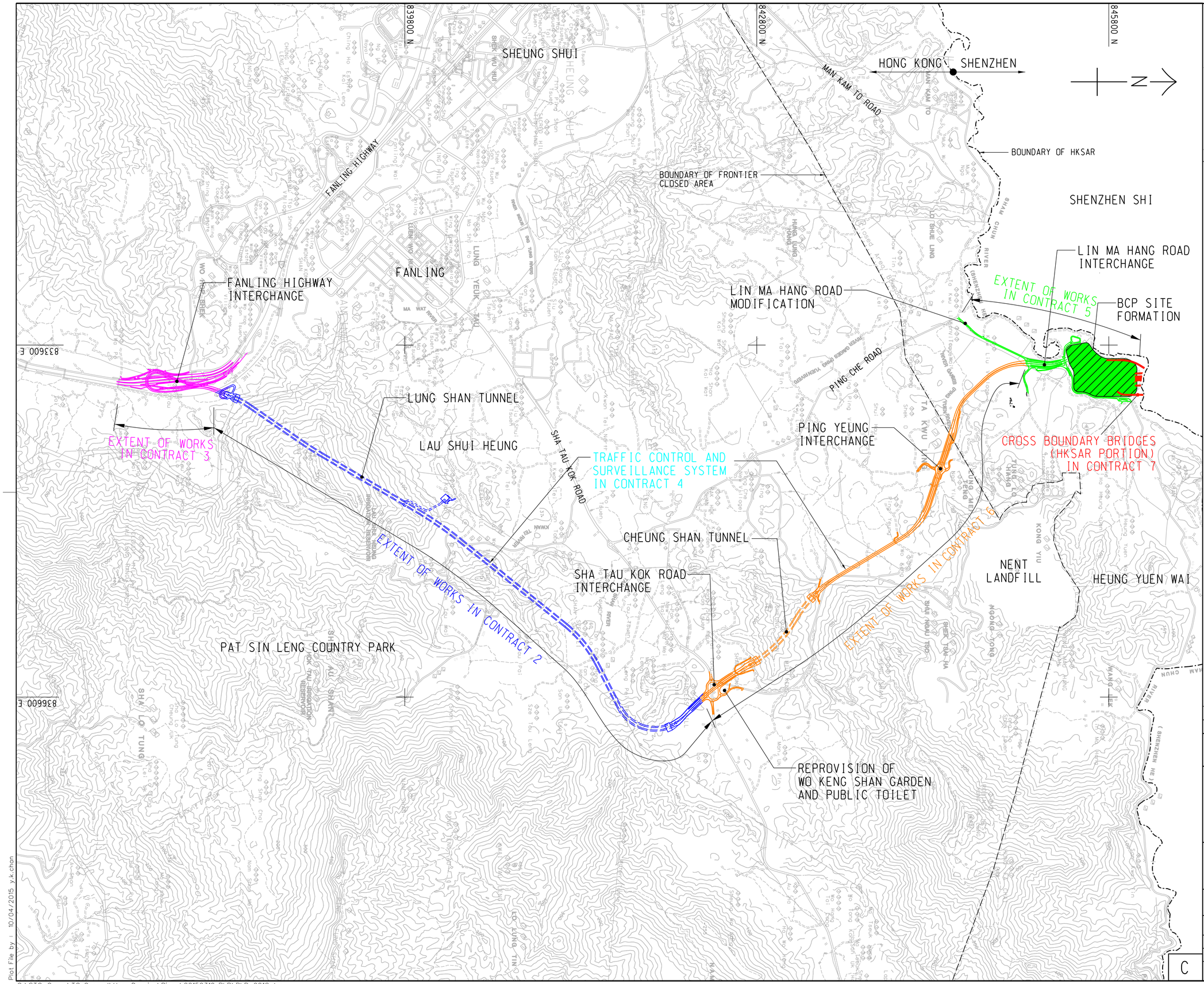
5 CONCLUSION

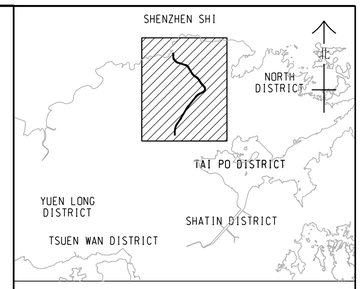
5.1 According to the EIA Report, two species of conservation interest *Euonymus kwangtungensis* and *Aquilaria sinensis* are required to be transplanted to undisturbed areas. As the condition of plants recorded in the EIA stage may be varied, a vegetation survey to confirm the condtion of the plants was conducted in Contract 2, Contract 3, Contract 5 and Contract 6. Findings of the survey and proposed treatment are presented in this report.

5.2 Seedlings of *Aquilaria sinensis* were found and recommended to be transplanted to nursery and to Woodland Compensation Area proposed in the EIA Report when the Area is ready. Two numbers of *Euonymus kwangtungensis* individuals were identified. It is recommended to transplant the individuals directly to a nearby suitable reception site within the Project limit with similar habitat where will not be affected by construction actives.

5.3 Trees of *Aquilaria sinensis* are retained in-situ where possible. For trees in conflict with construction works, transplantation is recommended if they are considered suitable for transplanting. Felling is recommended for trees which cannot be transplanted or not suitable for transplanting due to various reasons.

Figures





LOCATION PLAN
SCALE 1 : 30000

LEGEND:

UNDERGROUND WORKS

REV. 修訂	DESCRIPTION 內容摘要	D.E.	P.E. CHECKED 複核	DATE 日期

土木工程拓展署
CEDD Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS (SITE FORMATION AND INFRASTRUCTURES) - DESIGN AND CONSTRUCTION

PROJECT LAYOUT PLAN

AECOM

DRG.NO. 圖紙編號 60212563/PLP/001

DESIGNED BY 設計	CONTRACT NO. 合約編號	P. Dir. APPROVED 批准人
-	-	-

DRAWN BY 繪圖 ZJ
STATUS 階段
SCALE 比例 A1 1 : 15000 A3 1 : 30000
DIMENSIONS ARE IN 尺寸單位 METRES

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C

Plot File by : 10/04/2015 y.k.chan

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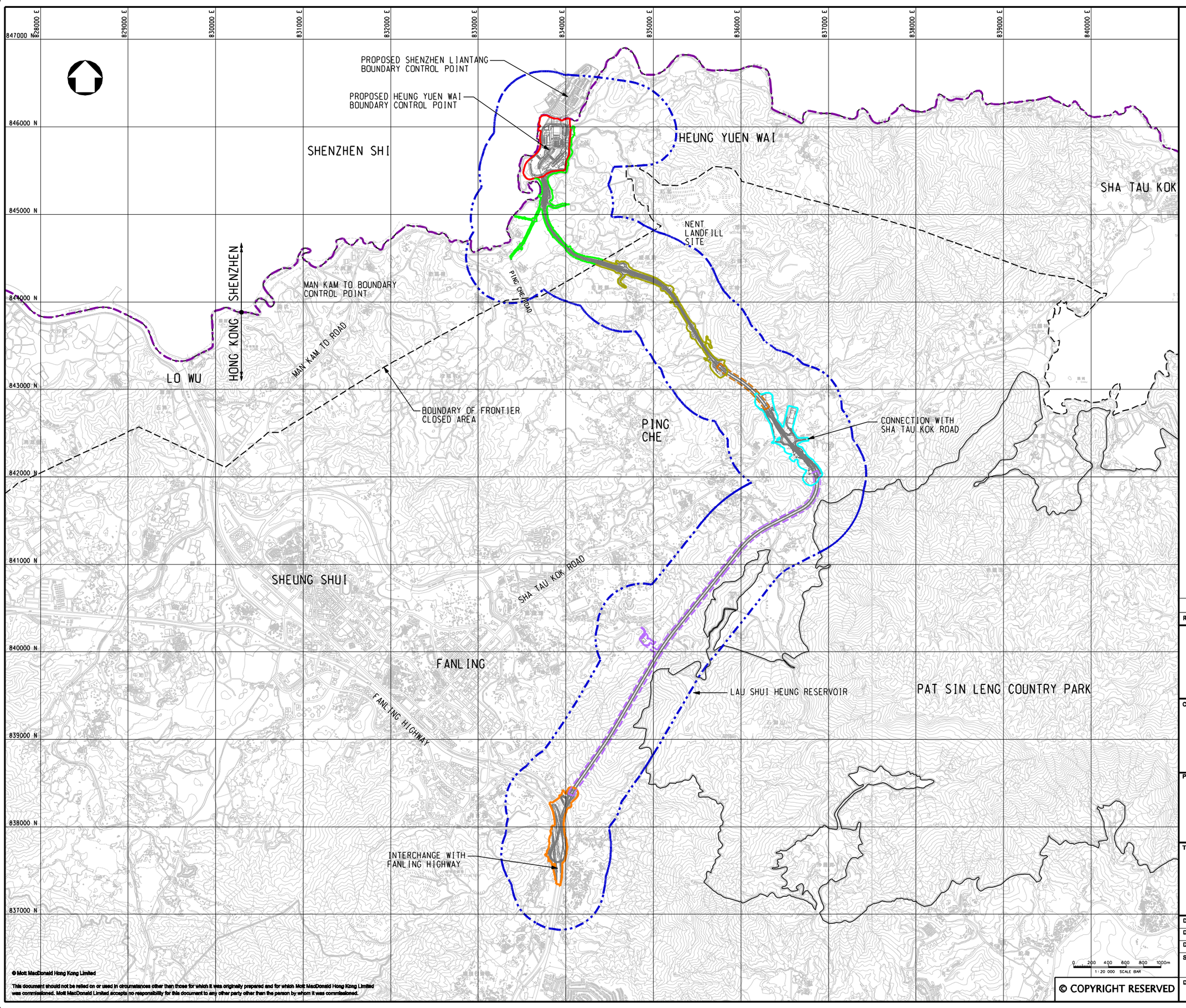

LEGEND:

- BOUNDARY OF HKSAR
- ECOLOGICAL ASSESSMENT AREA
- SECTION 1 BCP (ABOVE GROUND)
- SECTION 2 FRONTIER CLOSED AREA (ABOVE GROUND)
- SECTION 3 PING YEUNG TO WO KENG SHAN AREA (ABOVE GROUND)
- SECTION 4 CHEUNG SHAN AREA (TUNNEL)
- SECTION 5 SHA TAU KOK ROAD AREA (ABOVE GROUND)
- SECTION 6 LAU SHUI HEUNG (ABOVE GROUND)
- SECTION 6 LAU SHUI HEUNG (TUNNEL)
- SECTION 7 FANLING (ABOVE GROUND)

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	OCT 10	MING	FIRST ISSUE	ST	HT

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE45/2008(CE)
LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title

SECTIONS OF WORKS AREA

Designed	PW		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	PW		Approved	HT	
Scale at A1	1:20000	Project	255228		Status PRE
		CAD file	J:\255228\REPORT\ENV\EIA\VOL05\FIG 9-1b.dgn		
Drawing No	FIGURE 9.1b				Rev P1

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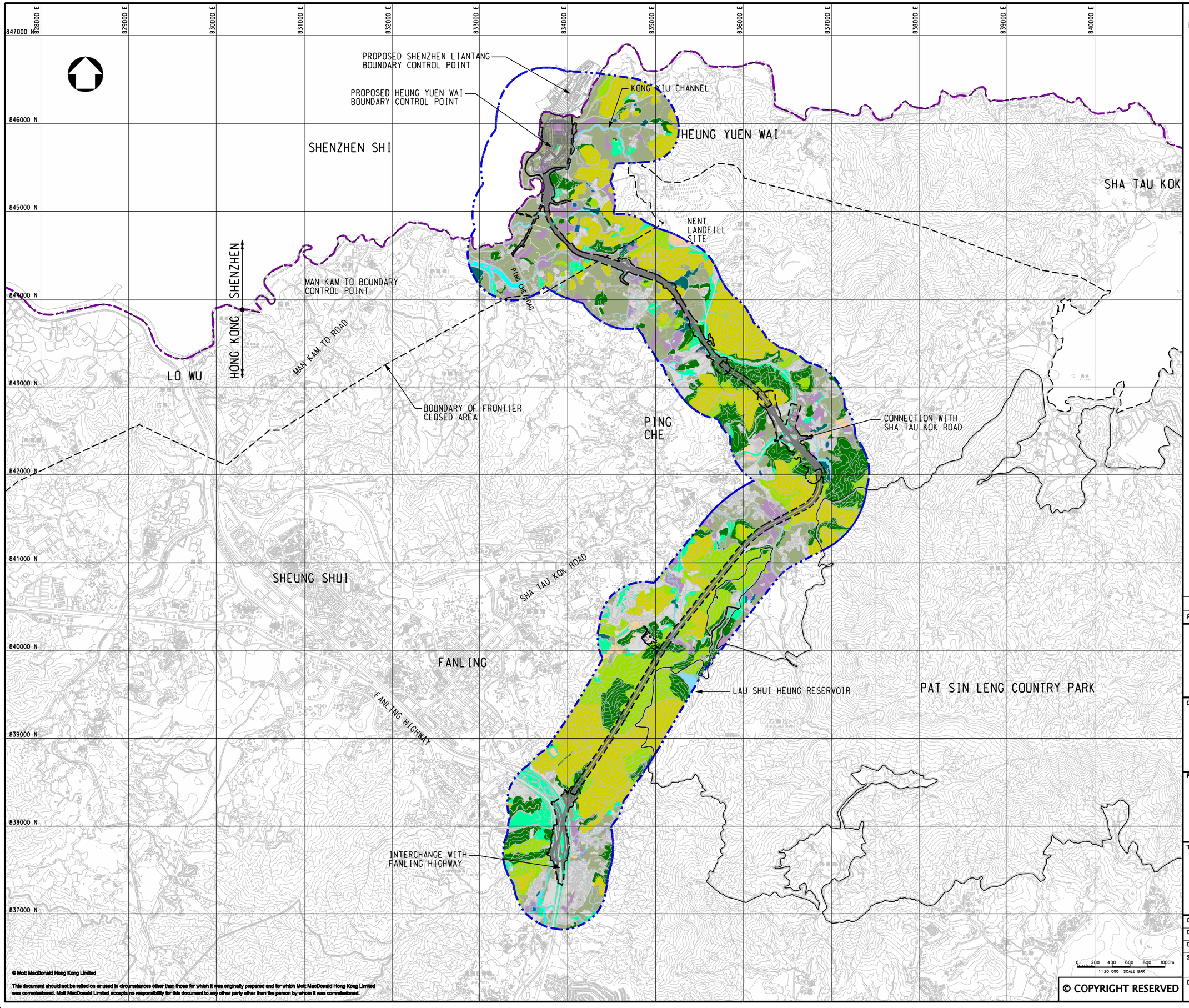
Appendix A –
Habitat Map in the EIA Report showing the Location of *Euonymus kwangtungensis* and *Aquilaria sinensis*



LEGEND:

- BOUNDARY OF HKSAR
- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

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HABITAT MAP
(KEY PLAN)

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Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:20000	Project	255228	Status	PRE
		CAD file	j:\255228\report\env\eia\0815\FIG 9-2a.dgn		
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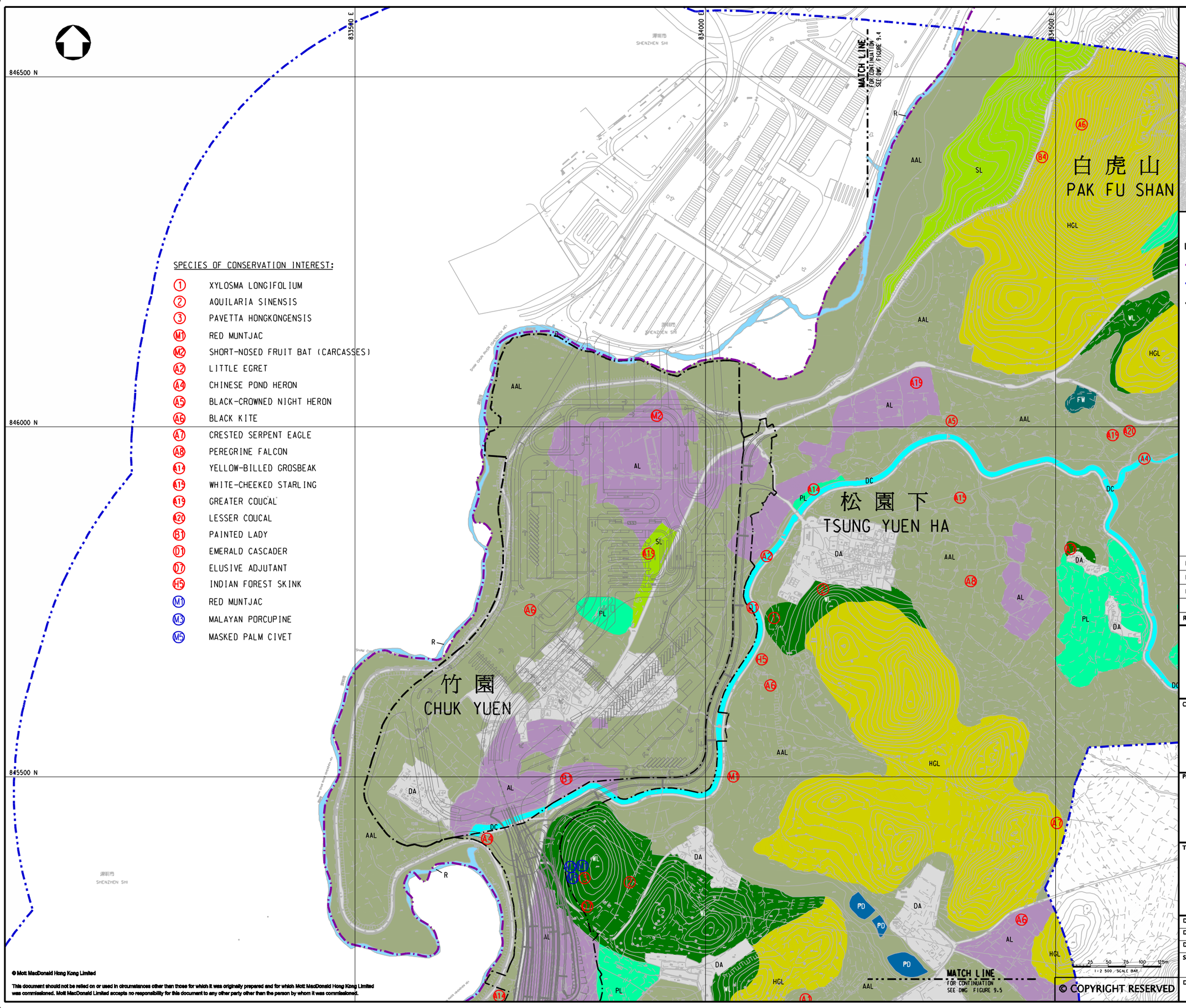
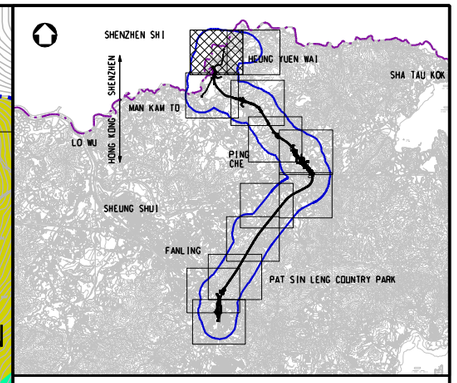


SPECIES OF CONSERVATION INTEREST:

1. XYLOSMA LONGIFOLIUM
2. AQUILARIA SINENSIS
3. PAVETTA HONGKONGENSIS

- M1 RED MUNTJAC
- M2 SHORT-NOSED FRUIT BAT (CARCASSES)
- A2 LITTLE EGRET
- A4 CHINESE POND HERON
- A5 BLACK-CROWNED NIGHT HERON
- A6 BLACK KITE
- A7 CRESTED SERPENT EAGLE
- A8 PEREGRINE FALCON
- A14 YELLOW-BILLED GROSBEAK
- A15 WHITE-CHEEKED STARLING
- A19 GREATER COUCAL
- A20 LESSER COUCAL
- B1 PAINTED LADY
- D1 EMERALD CASCADER
- D7 ELUSIVE ADJUTANT
- H5 INDIAN FOREST SKINK
- M1 RED MUNTJAC
- M3 MALAYAN PORCUPINE
- M5 MASKED PALM CIVET



KEY PLAN
SCALE 1:100000

LEGEND:

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P3	OCT 10	MING	GENERAL REVISION	ST	HT
P2	AUG 10	MING	GENERAL REVISION	ST	HT
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Title
HABITAT MAP

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Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228	Status	PRE
		CAD file	J:\255228\REPORT\ENV\EIA\DWGS\FIG 9-3.dgn		
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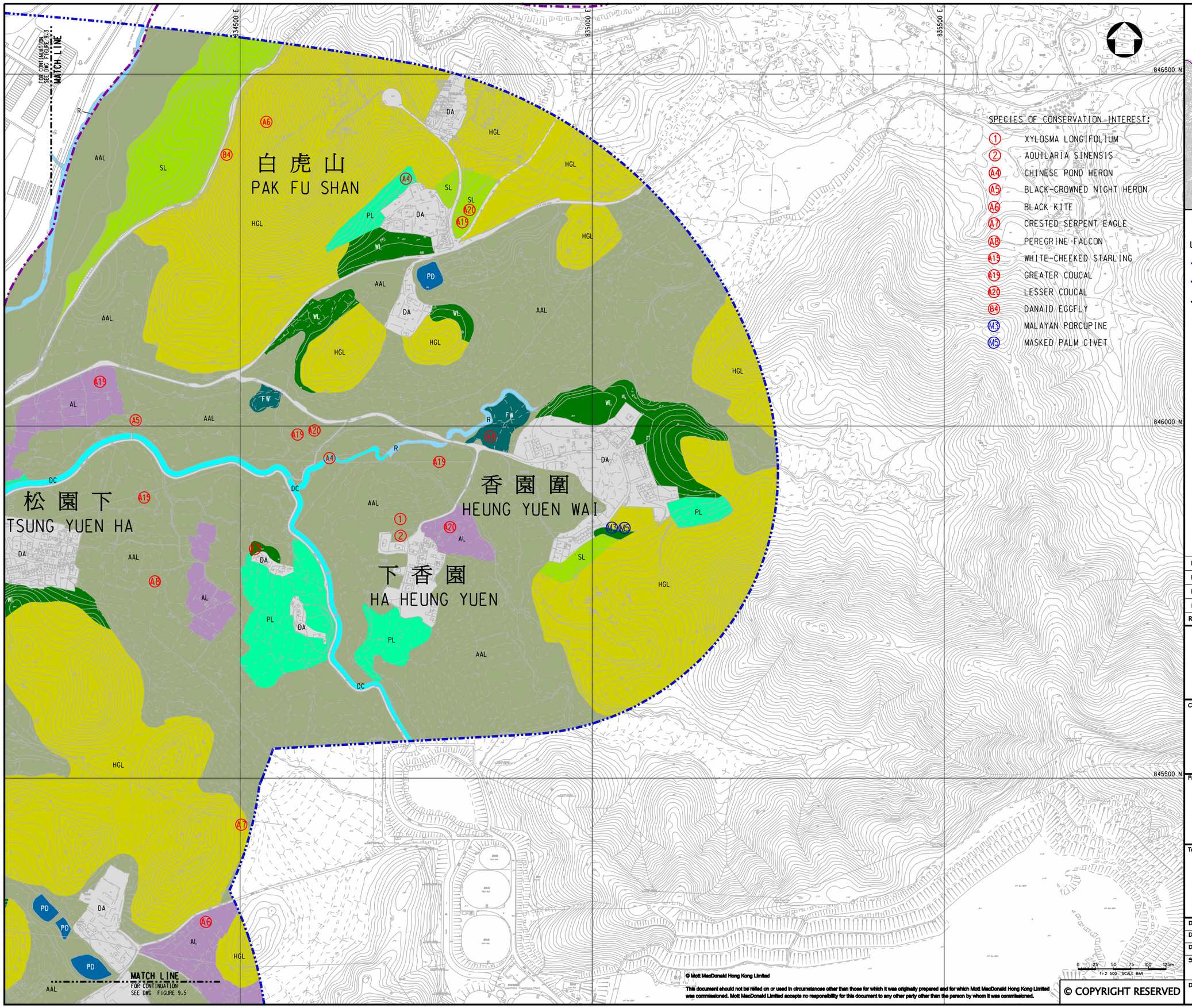
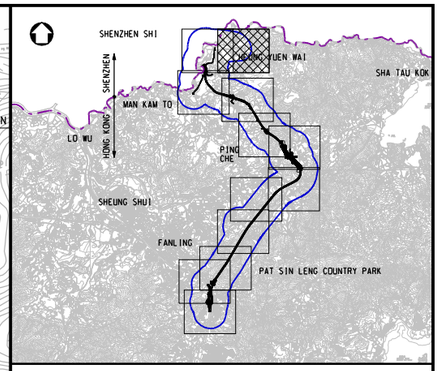


SPECIES OF CONSERVATION INTEREST:

1. XYLOSMA LONGIFOLIUM
2. AQUILARIA SINENSIS
A4. CHINESE POND HERON
A5. BLACK-CROWNED NIGHT HERON
A6. BLACK KITE
A7. CRESTED SERPENT EAGLE
A8. PEREGRINE FALCON
A19. WHITE-CHEEKED STARLING
A19. GREATER COUCAL
A20. LESSER COUCAL
B4. DANAID EGGFLY
M3. MALAYAN PORCUPINE
M5. MASKED PALM CIVET



KEY PLAN
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LEGEND:

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HABITAT MAP

(SHEET 2 OF 12)

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Dwg.Chk.	ST		Approved	HT	
Scale at A1 1:2500		Project 255228			Status PRE
		CAD file j:\255228\report\env\elg\0815\FIG 9-4.dgn			
Drawing No FIGURE 9.4					Rev P4

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833000 E
833500 E
834000 E
834500 E
845000 N
844500 N
844000 N

SPECIES OF CONSERVATION INTEREST:

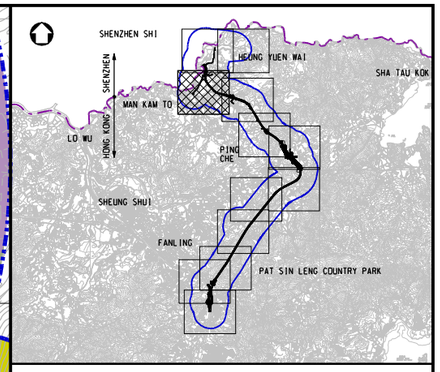
- (2) AQUILARIA SINENSIS
- (A1) GREY HERON
- (A2) LITTLE EGRET
- (A3) CATTLE EGRET
- (A4) CHINESE POND HERON
- (A6) BLACK KITE
- (A7) CRESTED SERPENT EAGLE
- (A9) WHITE-THROATED KINGFISHER
- (A11) ZITTING CISTICOLA
- (A12) BRIGHT-CAPPED CISTICOLA
- (A14) YELLOW-BILLED GROSBEAK
- (A16) WHITE-SHOULDERED STARLING
- (A17) BLACK-NAPED ORIOLE
- (A19) GREATER COUCAL
- (A21) CRESTED GOSHAWK
- (A22) EMERALD DOVE
- (A23) GREAT EGRET
- (H4) CHINESE BULLFROG

FOR CONTINUATION SEE DWG FIGURE 9.3 & 9.4
MATCH LINE

簡頭圍
KAN TAU WAI

FOR CONTINUATION SEE DWG FIGURE 9.6
MATCH LINE

0 25 50 75 100 125m
1:2 500 SCALE BAR



KEY PLAN
SCALE 1:100000

LEGEND:

- BOUNDARY OF HKSAR
- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND [WET AGRICULTURAL LAND (ACTIVE/ABANDONED)]
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	HY	HT
P3	OCT 10	MING	GENERAL REVISION	ST	HT
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LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title
HABITAT MAP
(SHEET 3 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1 1:2500		Project 255228			Status PRE
		CAD file j:\255228\report\env\eia\0815\FIG 9-5.dgn			
Drawing No FIGURE 9.5					Rev P4

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瓦窰下
NGA YIU HA

坪洋
PING YEUNG

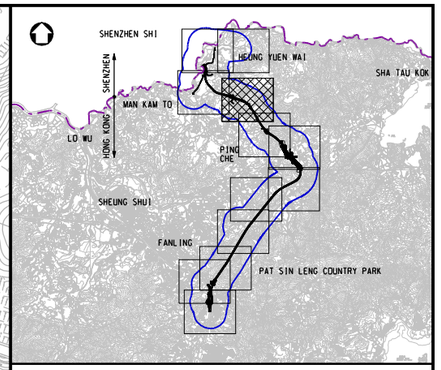
834500 E
835000 E
835500 E
844500 N
844000 N

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 9.5

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 9.7

SPECIES OF CONSERVATION INTEREST:

- (2) AQUILARIA SINENSIS
- (M3) MALAYAN PORCUPINE (QUILL)
- (M5) LESSER BAMBOO BAT
- (A2) LITTLE EGRET
- (A4) CHINESE POND HERON
- (A6) BLACK KITE
- (A7) CRESTED SERPENT EAGLE
- (A9) WHITE-THROATED KINGFISHER
- (A12) BRIGHT-CAPPED CISTICOLA
- (A16) WHITE-SHOULDERED STARLING
- (A17) BLACK-NAPED ORIOLE
- (A19) GREATER COUCAL
- (A20) LESSER COUCAL
- (A21) CRESTED GOSHAWK
- (A22) EMERALD DOVE
- (H1) CHINESE COBRA
- (H5) INDIAN FOREST SKINK
- (B2) SMALL THREE-RING
- (B3) GREAT SWIFT
- (F3) SOMANNIATHELPHUSA ZANKLON
- (F6) PREDACEOUS CHUB



KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

Rev	Date	Drawn	Description	Ch'k'd	App'd
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Title
HABITAT MAP

(SHEET 4 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1 1:2500		Project 255228		Status PRE	
		CAD file j:\255228\report\env\elg\0815\FIG 9-6.dgn			
Drawing No FIGURE 9.6				Rev P4	

0 25 50 75 100 125m
1:2 500 SCALE BAR

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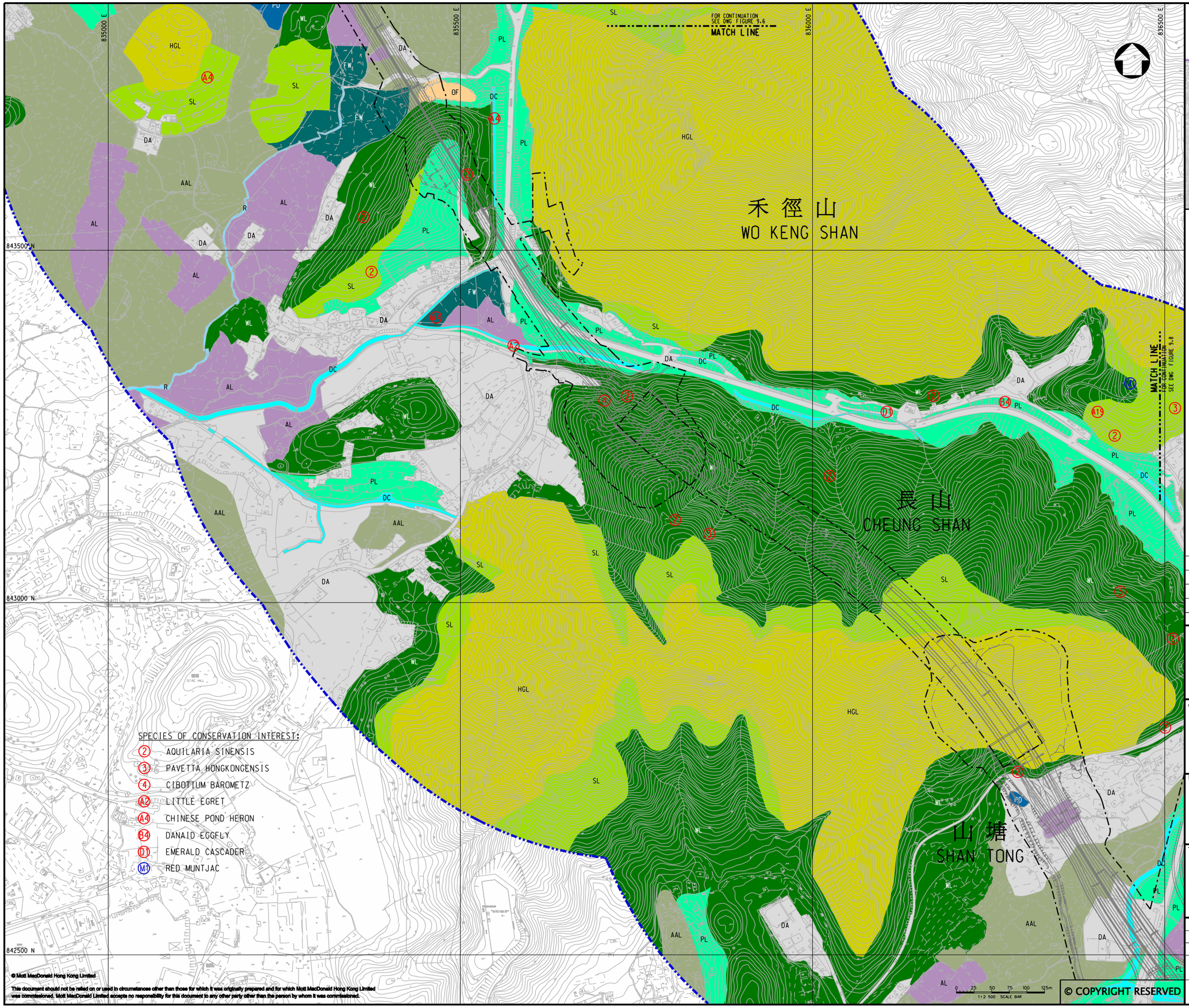

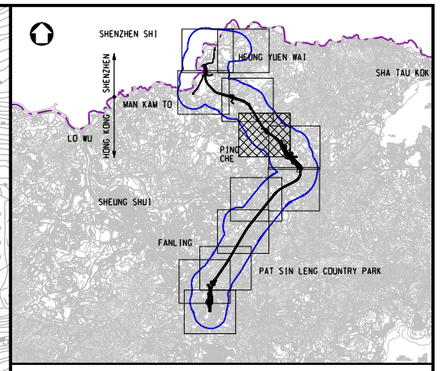

KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

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Title
HABITAT MAP

(SHEET 5 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228	Status	PRE
		CAD file	j:\255228\report\env\eia\0115\FIG 9-7.dgn		
Drawing No	FIGURE 9.7			Rev	P4

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836000 E
836500 E
837000 E
837500 E
843000 N
842500 N

FOR CONTINUATION SEE DWG. FIGURE 9.7

MATCH LINE

長山
CHEUNG SHAN

山塘
SHAN TONG

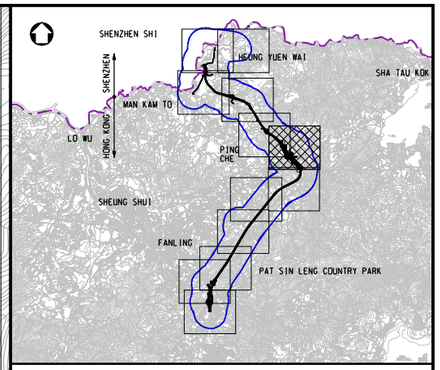
萬屋邊
MAN UK PIN

LOI TUNG
PAK KUNG

萊洞
LOI TUNG

SPECIES OF CONSERVATION INTEREST:

1. XYLOSMA LONGIFOLIUM
2. AQUILARIA SINENSIS
3. PAVETTA HONGKONGENSIS
4. CIBOTIUM BAROMETZ
5. EUONYMUS KWANGTUNGENSIS
6. CLEISOSTOMA SIMONDII
M4. LEOPARD CAT (SCAT)
A2. LITTLE EGRET
A4. CHINESE POND HERON
A7. CRESTED SERPENT EAGLE
A10. RUFOUS-CAPPED BABBLER
A18. GREY TREEPIE
A19. GREATER COUCAL
B4. DANAID EGGFLY
B6. LESSER FOREST BLUE
D1. EMERALD CASCADER
D6. DINGY DUSK-HAWKER
H5. INDIAN FOREST SKINK
F2. SMALL SNAKEHEAD
F6. PREDACEOUS CHUB
M1. RED MUNTJAC
M2. MALAYAN PORCUPINE



KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA
- ECOLOGICALLY IMPORTANT STREAM

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	PW	HT
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Title
HABITAT MAP

(SHEET 6 OF 12)

Designed	ST		Eng.Chk.	EC	
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Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228	Status	PRE
		CAD file	J:\255228\report\env\elq\0815\FIG 9-8.dgn		
Drawing No	FIGURE 9.8			Rev	P4

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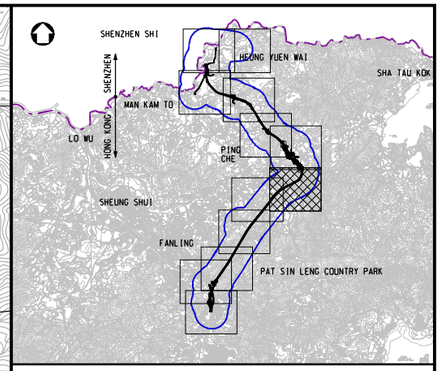
簡頭村
KAN TAU TSUEN

丹竹坑老圍
TAN CHUK HANG
LO WAI

836000 E
836500 E
837000 E
842000 N
841500 N
841000 N

FOR CONTINUATION SEE DWG. FIGURE 9.10
MATCH LINE

FOR CONTINUATION SEE DWG. FIGURE 9.8
MATCH LINE



KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA
- ECOLOGICALLY IMPORTANT STREAM

SPECIES OF CONSERVATION INTEREST:

- (2) AQUILARIA SINENSIS
- (3) PAVETTA HONGKONGENSIS
- (4) CIBOTIUM BAROMETZ
- (5) EUONYMUS KWANGTUNGENSIS
- (A2) LITTLE EGRET
- (A4) CHINESE POND HERON
- (A5) BLACK-CROWNED NIGHT HERON
- (A6) BLACK KITE
- (A7) CRESTED SERPENT EAGLE
- (A9) WHITE-THROATED KINGFISHER
- (A10) RUFOUS-CAPPED BABBLER
- (A11) ZITTING CISTICOLA
- (A18) GREY TREEPIE
- (A19) GREATER COUCAL
- (A20) LESSER COUCAL
- (A21) CRESTED GOSHAWK
- (A22) EMERALD DOVE
- (A24) RED-BREASTED FLYCATCHER
- (H2) MANY-BANDED KRAIT
- (H5) INDIAN FOREST SKINK
- (D1) EMERALD CASCADER
- (D2) DUSKY LILYSQUATTER
- (D3) EASTERN LILYSQUATTER
- (D4) RUBY DARTER
- (D5) SCARLET BASKER
- (F5) COMMON CARP
- (F6) PREDACEOUS CHUB

0 25 50 75 100 125m
1:2 500 SCALE BAR

Rev	Date	Drawn	Description	Ch'k'd	App'd
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Title
HABITAT MAP

(SHEET 7 OF 12)

Designed	ST		Eng.Chk.	EC	
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Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228		Status PRE
		CAD file	J:\255228\REPORT\ENV\EIA\00#5\FIG 9-9.dgn		
Drawing No	FIGURE 9.9				Rev P4

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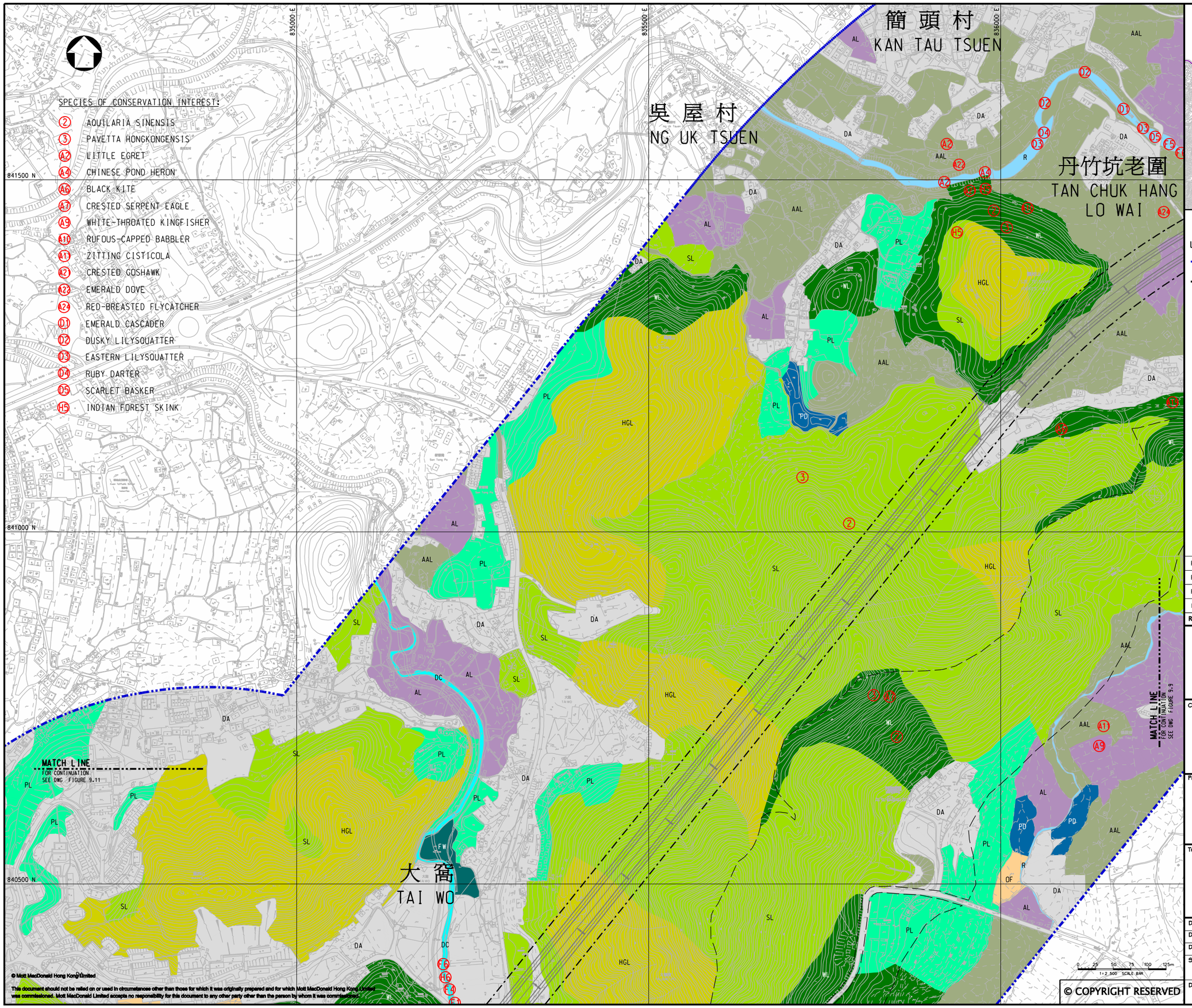

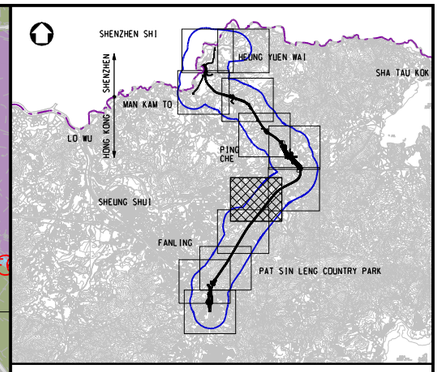

KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	HY	HT
P3	OCT 10	MING	GENERAL REVISION	ST	HT
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Title
HABITAT MAP

(SHEET 8 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228		Status PRE
		CAD file	J:\255228\REPORT\ENV\EIA\0815\FIG 9-10.dgn		
Drawing No	FIGURE 9.10				Rev P4

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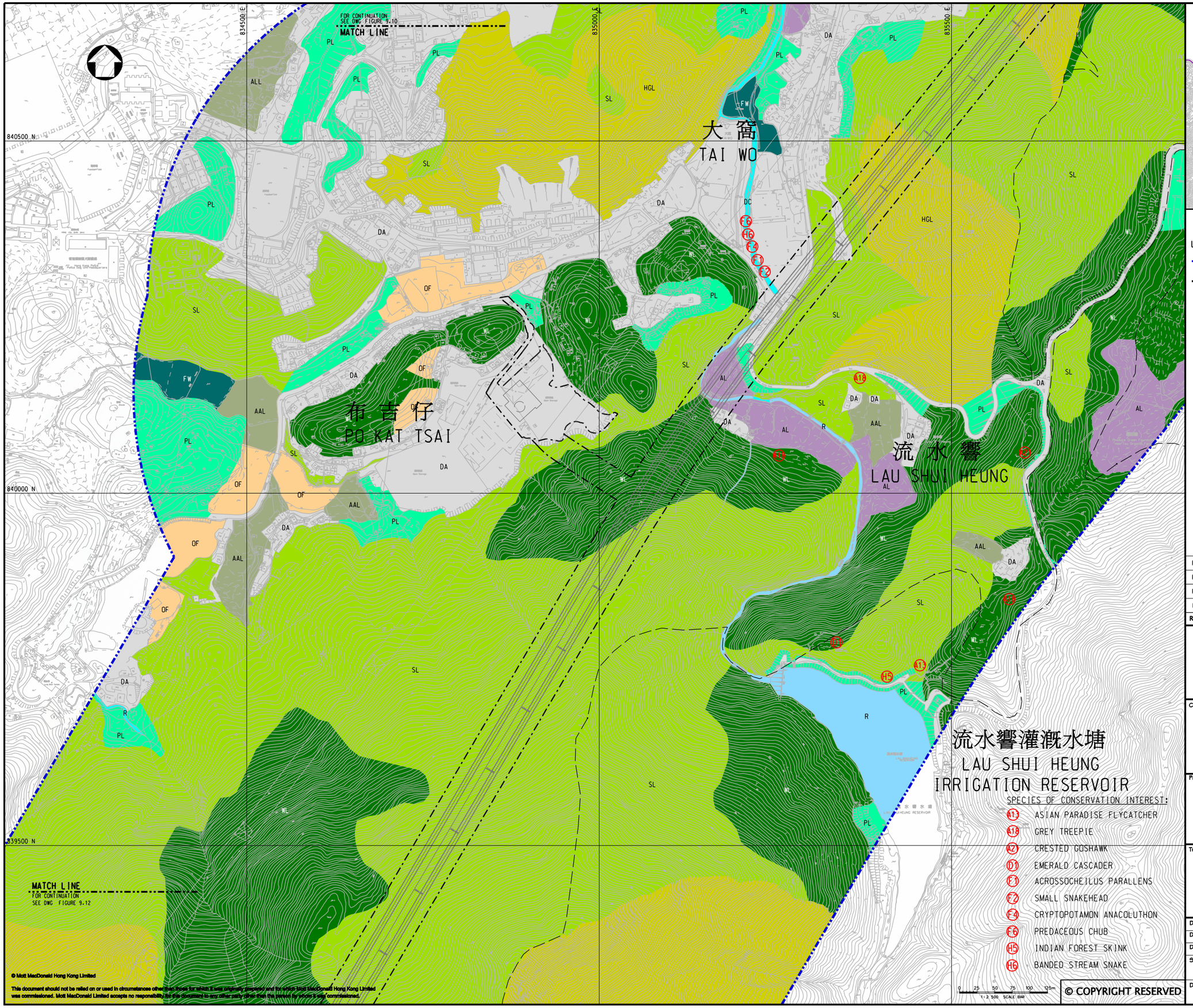

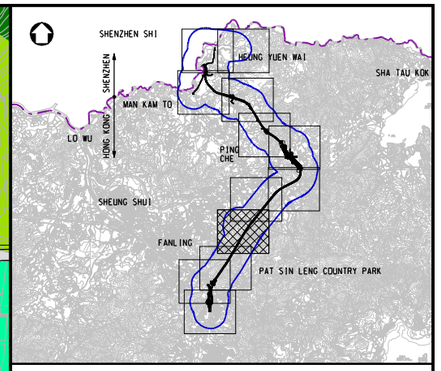

KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

SPECIES OF CONSERVATION INTEREST:

- A13 ASIAN PARADISE FLYCATCHER
- A19 GREY TREEPIE
- A21 CRESTED GOSHAWK
- D1 EMERALD CASCADER
- F1 ACROSSOCHEILUS PARALLENS
- F2 SMALL SNAKEHEAD
- F4 CRYPTOPOTAMON ANACOLUTHON
- F6 PREDACEOUS CHUB
- H5 INDIAN FOREST SKINK
- H6 BANDED STREAM SNAKE

0 25 50 75 100 125m
1:2,500 SCALE BAR

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Title
HABITAT MAP

(SHEET 9 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228		Status PRE
		CAD file	J:\255228\report\env\eia\0815\FIG 9-II.dgn		
Drawing No	FIGURE 9.11				Rev P4

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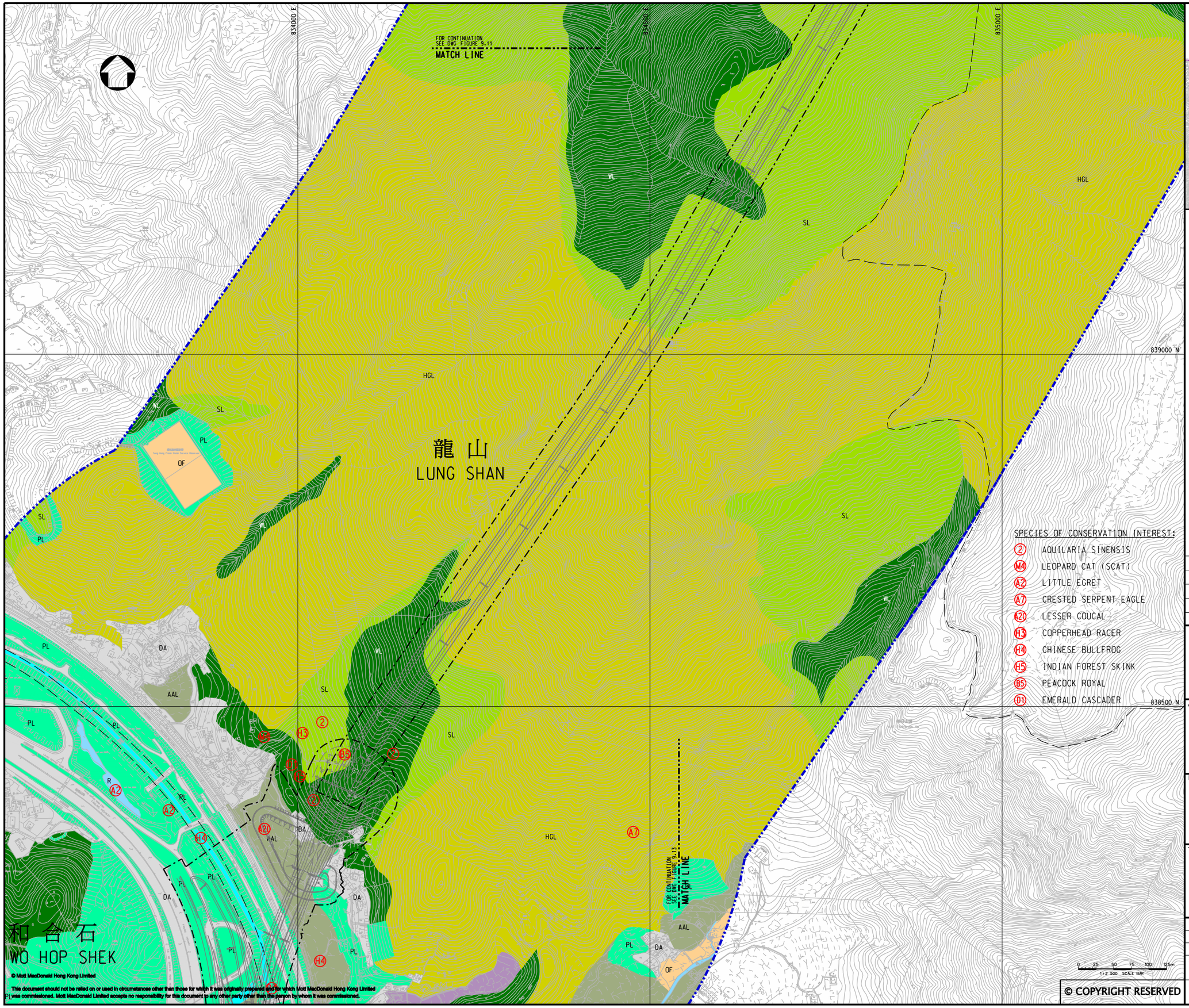

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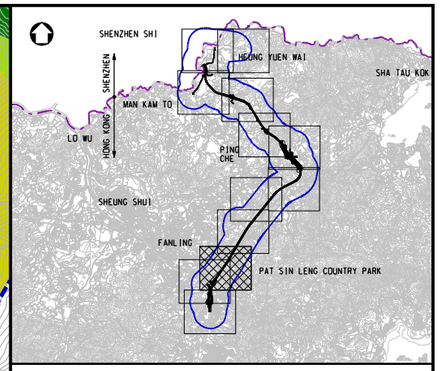

KEY PLAN

SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND [WET AGRICULTURAL LAND (ACTIVE/ABANDONED)]
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	ST	HT
P3	OCT 10	MING	GENERAL REVISION	ST	HT
P2	AUG 10	MING	GENERAL REVISION	ST	HT
P1	MAY 10	MING	FIRST ISSUE	ST	HT

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CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project

AGREEMENT NO. CE45/2008(CE)
LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title

HABITAT MAP

(SHEET 10 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	

Scale at A1: 1:2500
Project: 255228
CAD file: j:\255228\report\env\eia\10115\FIG 9-12.dgn
Status: PRE
Drawing No: FIGURE 9.12
Rev: P4

833000 E
833500 E
834000 E
834500 E
839000 N
838500 N
838000 N

SPECIES OF CONSERVATION INTEREST :

(2) AQUILARIA SINENSIS
(M4) LEOPARD CAT (SCAT)
(A1) GREY HERON
(A2) LITTLE EGRET
(A4) CHINESE POND HERON
(A6) BLACK KITE
(A7) CRESTED SERPENT EAGLE
(A20) LESSER COUCAL
(H3) COPPERHEAD RACER
(H4) CHINESE BULLFROG
(H5) INDIAN FOREST SKINK
(B5) PEACOCK ROYAL
(D1) EMERALD CASCADER
(D3) EASTERN LILYSQUATTER
(D4) RUBY DARTER

龍 山
LUNG SHAN

和 合 石
WO HOP SHEK

九
KAU

WL SL PL OF DA AAL HGL R DC AL

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 9.14

MATCH LINE
FOR CONTINUATION
SEE DWG FIGURE 9.12

0 25 50 75 100 125 150
AAL 1:2 500 SCALE BAR

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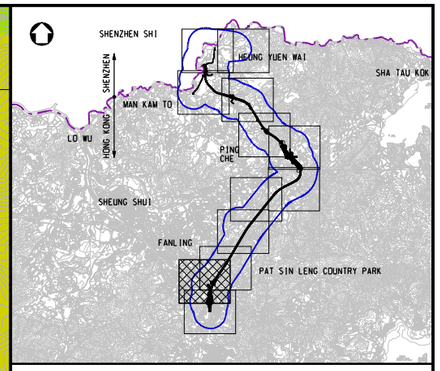

KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA
- ECOLOGICALLY IMPORTANT STREAM

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	ST	HT
P3	OCT 10	MING	GENERAL REVISION	ST	HT
P2	AUG 10	MING	GENERAL REVISION	ST	HT
P1	MAY 10	MING	FIRST ISSUE	ST	HT

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CEDD
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project
AGREEMENT NO. CE45/2008(CE)
LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title
HABITAT MAP
(SHEET 11 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1 1:2500		Project 255228			Status PRE
		CAD file j:\255228\report\env\eia\0805\FIG 9-13.dgn			
Drawing No FIGURE 9.13					Rev P4

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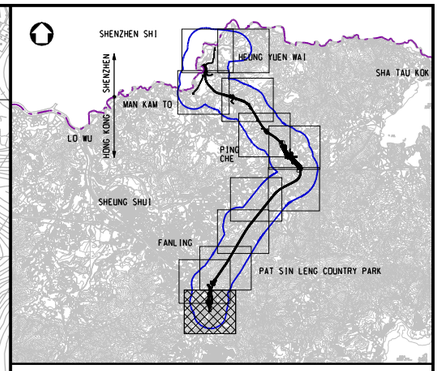
838000 N
837500 N
837000 N
833500 E
834000 E
834500 E

FOR CONTINUATION
SEE DWG. FIGURE 9.13
MATCH LINE

九龍坑
KAU LUNG HANG

南華莆
NAM WA PO

元嶺
YUEN LENG



KEY PLAN
SCALE 1:100000

LEGEND:

- ECOLOGICAL ASSESSMENT AREA
- WORKS AREA
- WL WOODLAND
- SL SHRUBLAND
- PL PLANTATION
- FW FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL ACTIVE AGRICULTURAL LAND
- AAL ABANDONED AGRICULTURAL LAND
- HGL HILLSIDE GRASSLAND
- PD POND
- DC DRAINAGE CHANNEL
- R WATERCOURSE
- OF OPEN FIELD
- DA DEVELOPED AREA
- ECOLOGICALLY IMPORTANT STREAM

SPECIES OF CONSERVATION INTEREST:

- A1 GREY HERON
- A2 LITTLE EGRET
- A4 CHINESE POND HERON
- A6 BLACK KITE
- O3 EASTERN LILYSQUATTER
- H4 CHINESE BULLFROG
- H5 INDIAN FOREST SKINK

0 25 50 75 100 125m
1:2 500 SCALE BAR

Rev	Date	Drawn	Description	Ch'k'd	App'd
P4	NOV 10	MING	GENERAL REVISION	ST	HT
P3	OCT 10	MING	GENERAL REVISION	ST	HT
P2	AUG 10	MING	GENERAL REVISION	ST	HT
P1	MAY 10	MING	FIRST ISSUE	ST	HT

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CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project
AGREEMENT NO. CE45/2008(CE)
LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title
HABITAT MAP

(SHEET 12 OF 12)

Designed	ST		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	ST		Approved	HT	
Scale at A1	1:2500	Project	255228		Status PRE
		CAD file	j:\255228\report\eny\elg\0115\FIG 9-14.dgn		
Drawing No	FIGURE 9.14				Rev P4

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Appendix B – Photographs taken for *Aquilaria sinensis* Trees Identified during Vegetation Survey

Photographs:

STK1834

STK1865

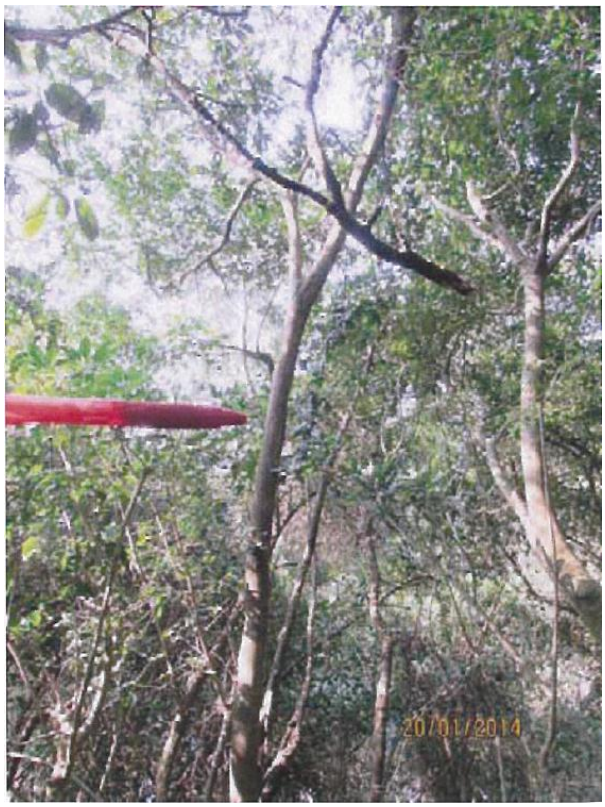
STK1887

STK2290

Photographs:

STK2291

STK2310



STK2322

STK2472

Photographs:

STK2479

STK2701

STK2876

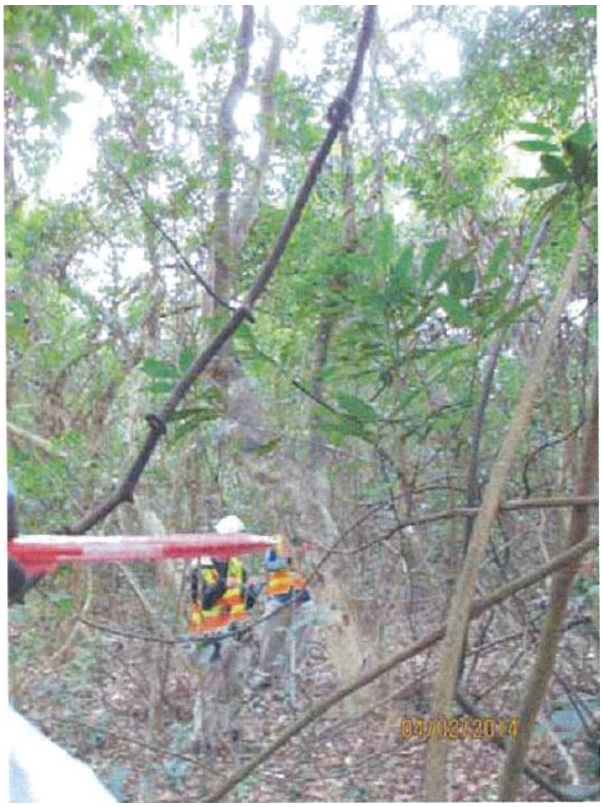
STK2879

Photographs:

STK2900

STK2927

STK2935



STK2943

Photographs:

STK2974

STK2984

STK2991

STK3009

Photographs:

STK3013

STK3014

STK3107

STK3114

Photographs:

STK3134

STK3141

STK3323

STK3459

Photographs:

STK3542

STK3618

STK3630

STK3643

Photographs:

STK3691

STK3712

STK3736

STK3768

Photographs:

STK3882

STK4000

STK4017

STK4101

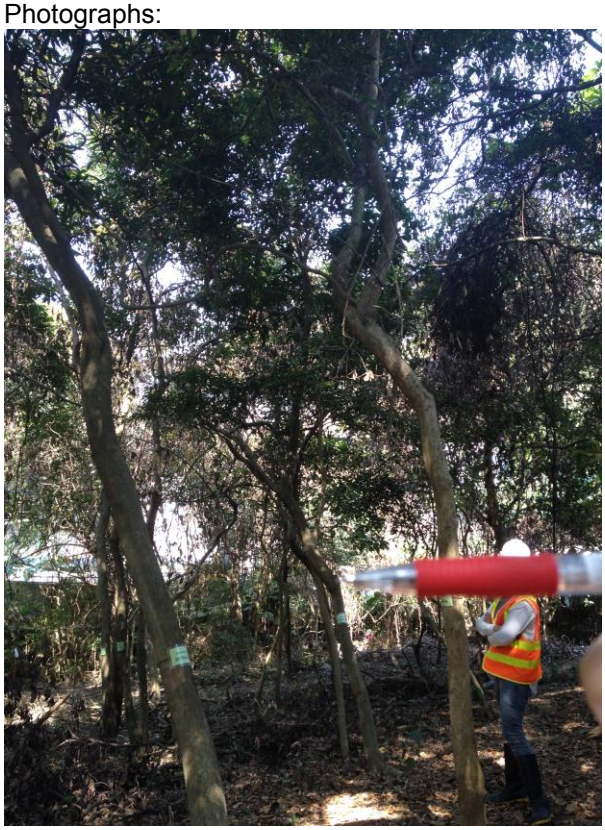
Photographs:

STK4251

STK4253

T306

Photographs:



T2163

T2413

U381

U415

Photographs:

U543

U649

Photographs:

AS01

AS02

AS03

Photographs:

STK1548

STK1603

STK1609

STK1679

Photographs:

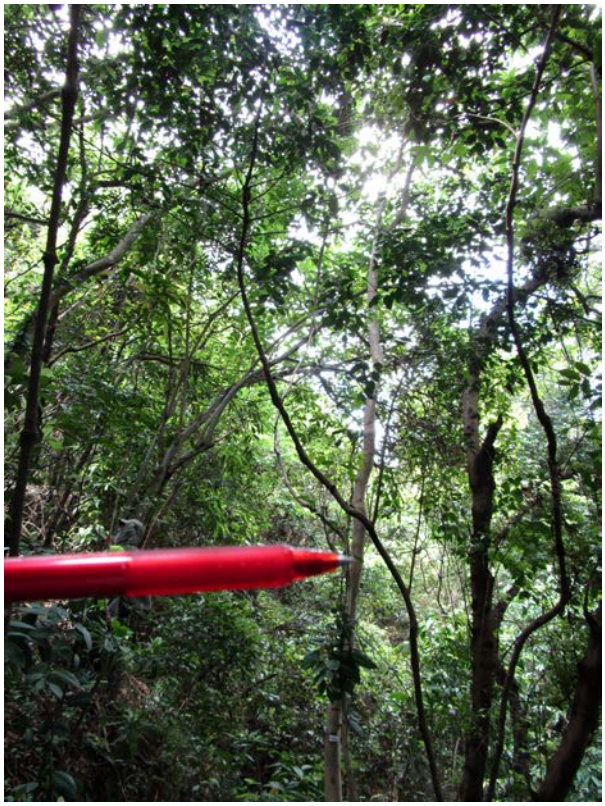
STK1728

STK2091

STK2121

STK2140

Photographs:



STK2176

N252

N306

N313

Photographs:

N317

N318

N320

N326

Photographs:

N327

N330

N383

N384

Photographs:

N388

N471

N472

N498

Photographs:

T708

T1259A

T1268

T1284

Photographs:

T1344

T1346

T1489

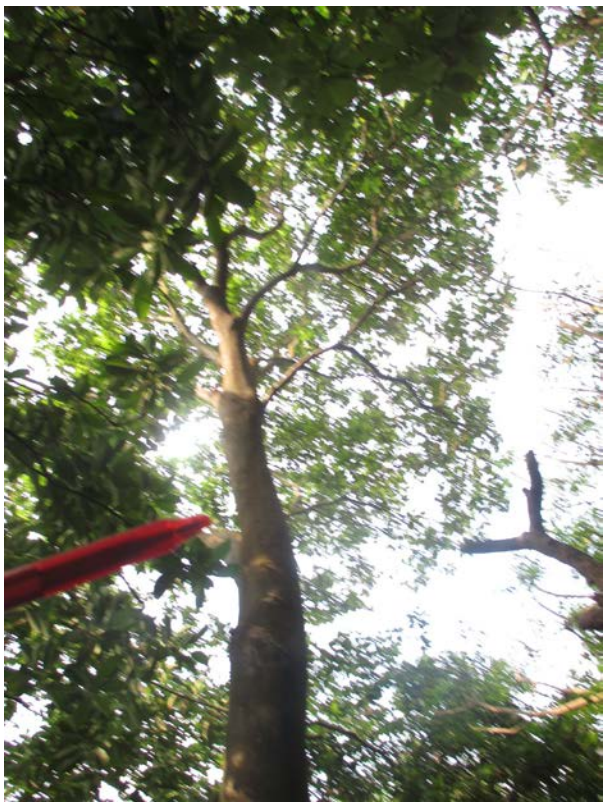
T1503

Photographs:

T1505

T1577

T1579



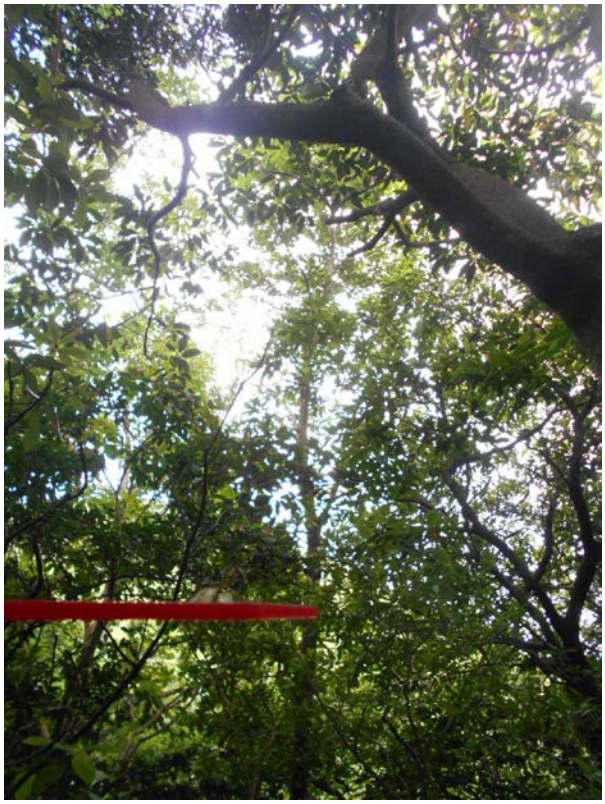
T1586

Photographs:

T1601

T1602

T1608



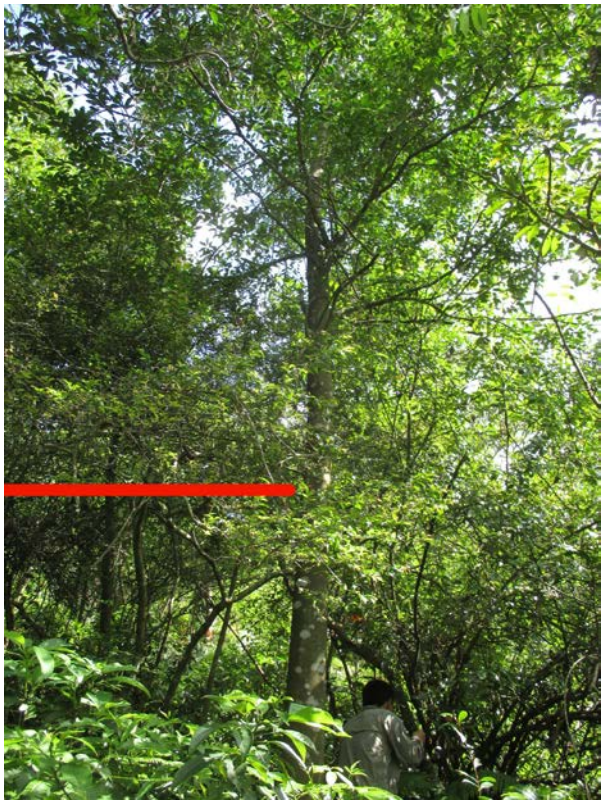
T1611

Photographs:

T1628

T1639

T1704



T1818

Photographs:

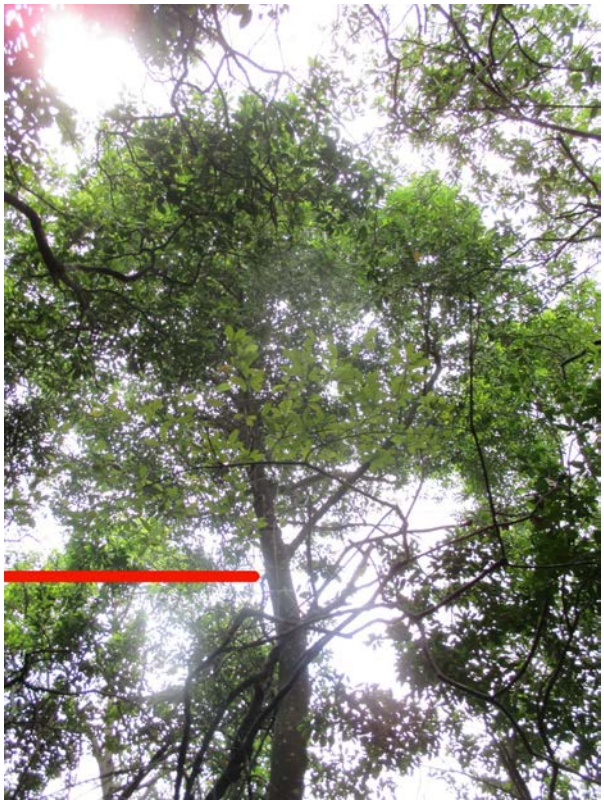
T1835

T1868

T1877

T1880

Photographs:



T1887

T1906

T1944

T1947

Photographs:

T1993

T2070

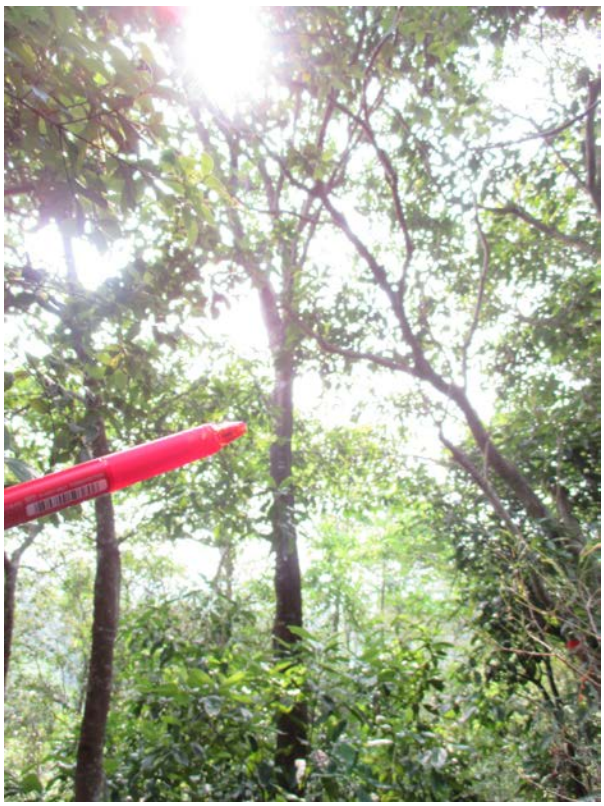
T2803

T2812

Photographs:

T2845

T2846



T2854

T2857

Photographs:

T2866

T2901

T2921

T2983

Photographs:

T3007

T3041

T3048

T3053

Photographs:

T3060

T3149

T3184

T3219

Photographs:

T3225

T3247

T3260

T3261A

Photographs:

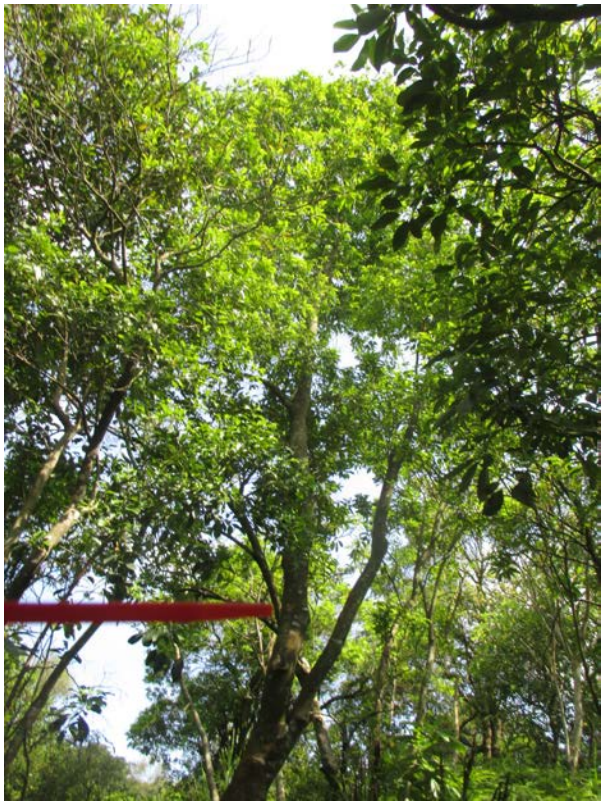
T3262

T3282

T3287

T3318

Photographs:



T3330

Photographs:

AS04

AS05

AS06

AS07

Photographs

AS08

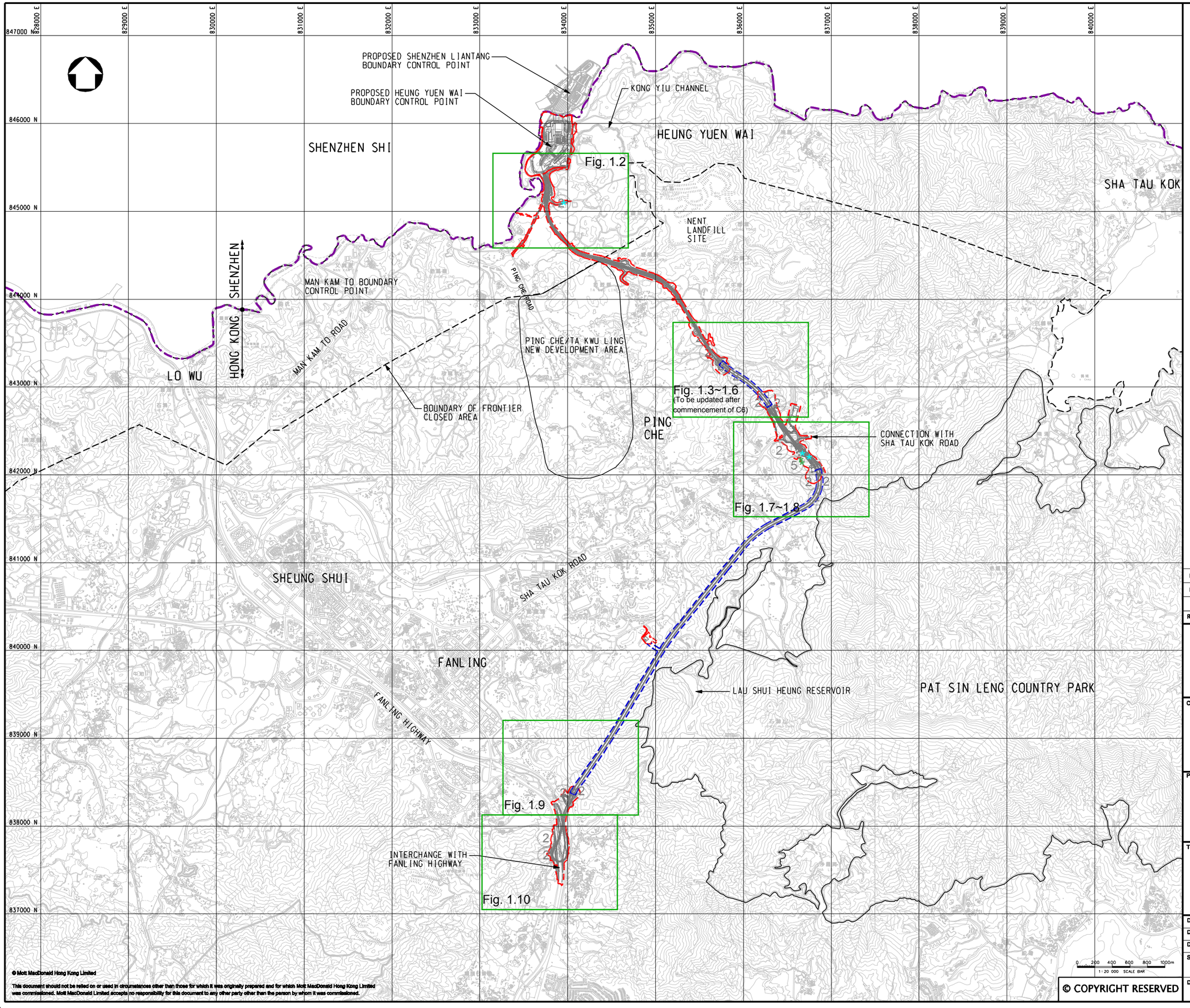
Appendix C – Photographs taken for *Euonymus kwantungensis* Identified during Vegetation Survey

Photographs:

EK01

EK02

Appendix D – Updated location plan of *Aquilaria sinensis* and *Euonymus kwangtungensis*



LEGEND:

- BOUNDARY OF HKSAR
- WORKS AREA (ABOVE GROUND)
- WORKS AREA (TUNNEL)

SPECIES OF CONSERVATION INTEREST:

- (2) AQUILARIA SINENSIS
- (5) EUONYMUS KWANGTUNGENSIS
- * Seedling of Euonymus kwangtungensis
- * Seedling of Aquilaria sinensis

Rev	Date	Drawn	Description	Ch'k'd	App'd
P3	AUG 10	MING	GENERAL REVISION	FY	HT
P2	MAY 10	MING	GENERAL REVISION	FY	HT
P1	APR 10	MING	FIRST ISSUE	FY	HT

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Client: CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT

Project: AGREEMENT NO. CE45/2008(CE) LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS

Title: PROJECT LAYOUT PLAN

Designed	DC		Eng.Chk.	EC	
Drawn	MING		Coordination	EC	
Dwg.Chk.	DC		Approved	HT	
Scale at A1	1:20000	Project	255228	Status	PRE
		CAD file	j:\255228\report\env\eia\00816\FIG 1-1.dgn		
Drawing No	FIGURE 1.1			Rev	P3

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NOTE:

1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- T151 — TREE TO BE RETAINED
- T478 — TREE TO BE TRANSPLANTED
- T573 — TREE TO BE FELLED
- T157 — TREE TO BE REMOVED
- AQUILARIA SINENSIS (ALIVE)
- AQUILARIA SINENSIS (SEEDLING)

T306

AS01

CUT LINE 1-1
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.2

CUT LINE 2-2
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.4

CUT LINE 3-3
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.5

CUT LINE 4-4
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.8

CUT LINE 5-5
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.6

CUT LINE 6-6
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.5

CUT LINE 7-7
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.7

AFCD
LCSD

833700 E
833750 E
833800 E
845250 N
845200 N

Figure 1.2

NOTE:

1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- TREE TO BE RETAINED
- TREE TO BE TRANSPLANTED
- TREE TO BE FELLED
- TREE TO BE REMOVED
- AQUILARIA SINENSIS (EXISTING)
- AQUILARIA SINENSIS (MISSING)
- AQUILARIA SINENSIS (DEAD)
- AQUILARIA SINENSIS (SEEDLING)

CUT LINE 1-1
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.4

CUT LINE 3-3
SEE DRAW NG NO. 60212563/C1/3/FIGURE FIGURE 2.2

CUT LINE 2-2
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.3

CUT LINE 4-4
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.4

CUT LINE 5-5
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.6

CUT LINE 6-6
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.6 & FIGURE 2.4

STK1728
STK1679
STK2140
STK2091
STK2176
STK2121
STK1548
STK1609
STK1603

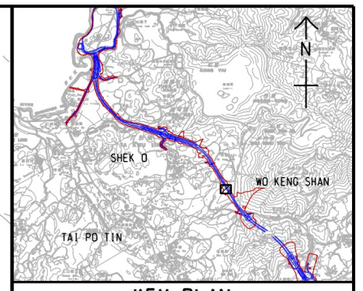
Figure 1.3

CUT LINE 36-36
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.33

835400 E
835450 E
835500 E
843700 N
843650 N
843600 N

T1344
T1346
T1284
T1268
T1259A
T1577
T1579
T1503
T1489
T1586
T1505
T1602
T1601
T1611
T1608
T1628
T1639

CUT LINE 37-37
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.35



KEY PLAN
SCALE 1 : 40000

NOTE:
1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:
- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- TREE TO BE RETAINED
- TREE TO BE TRANSPLANTED
- TREE TO BE FELLED
- TREE TO BE REMOVED
- AQUILARIA SINENSIS (EXISTING)
- AQUILARIA SINENSIS (MISSING)
- AQUILARIA SINENSIS (DEAD)
- AQUILARIA SINENSIS (SEEDLING)

REV. 修訂	DESCRIPTION 內容摘要	D.E. CHECKED 責任	P.E. CHECKED 責任	DATE 日期
E	TREES UPDATED	-	-	JAN-13
D	TREES UPDATED	-	-	SEP-12
C	TREATMENT OF TREES REVISED	-	-	MAY-12
B	TREES UPDATED	-	-	MAR-12
A	GENERAL REVISION	-	-	JAN-12

CEDD 土木工程拓展署 Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS (SITE FORMATION AND INFRASTRUCTURES) - DESIGN AND CONSTRUCTION

NORTHERN SECTION TREE SURVEY AND TREATMENT PLAN

SHEET 33 OF 49

AECOM

DRG.NO. 圖紙編號: Figure 1.4

DESIGNED BY 設計: KW	CONTRACT NO. 合約編號: -	P. Dir. APPROVED 批准人: -
DRAWN BY 繪圖: YJP	STATUS 階段:	
SCALE 比例: A1 1 : 200		
DIMENSIONS ARE IN 尺寸單位: METRES	© COPYRIGHT RESERVED 版權所有	

Plot File by : 2013-4-8 FENGYL
P:\Projects\60212563\DRAWING\REPORT\OC1\C1_2_833.dgn

CUT LINE 39-39
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.35

CUT LINE 41-41
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.38

835550 E

843500 N

843450 N

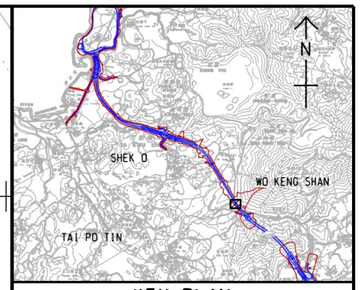
SHOW ROAD

AFCD
LCSD

3NW-D/C 5

T708

N



KEY PLAN
SCALE 1 : 40000

NOTE:
1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- TREE TO BE RETAINED
- TREE TO BE TRANSPLANTED
- TREE TO BE FELLED
- TREE TO BE REMOVED
- SIMAR SLOPE UNDER HYD JURISDICTION
- AFCD / LCSD — DEMARCATION LINE WITH JURISDICTION DEPARTMENTS SHOWN THUS
- AQUILARIA SINENSIS (EXISTING)
- AQUILARIA SINENSIS (MISSING)
- AQUILARIA SINENSIS (DEAD)
- AQUILARIA SINENSIS (SEEDLING)

REV. 修訂	DESCRIPTION 內容摘要	D.C. 土木	P.C. CHECKED 審核	DATE 日期
B	TREES UPDATED	-	-	MAR-12
A	GENERAL REVISION	-	-	JAN-12

CEDD 土木工程拓展署 Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS (SITE FORMATION AND INFRASTRUCTURES) - DESIGN AND CONSTRUCTION

NORTHERN SECTION TREE SURVEY AND TREATMENT PLAN

SHEET 36 OF 49

AECOM

DRG.NO. 圖紙編號: Figure 1.5

DESIGNED BY 設計: KW	CONTRACT NO. 合約編號: -	P. Dir. APPROVED 批准人: -
DRAWN BY 繪圖: YJP	STATUS 階段	
SCALE 比例: A1 1 : 200		
DIMENSIONS ARE IN 尺寸單位: METRES	© COPYRIGHT RESERVED 版權所有	

Plot File by : 2013-4-8 FENGYL

p:\projects\60212563\drawing\report\oc1\C1_2_836.dgn

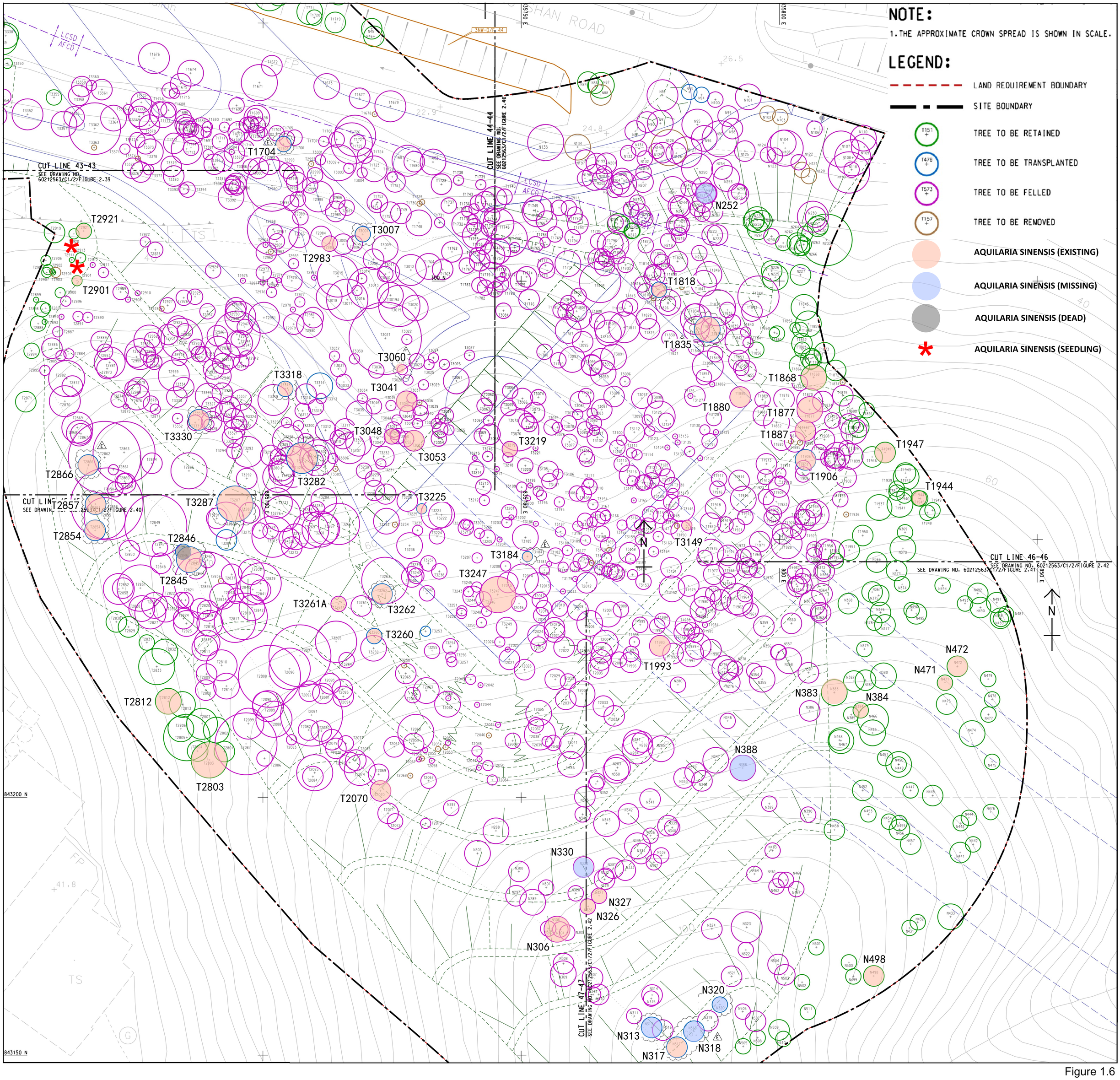

NOTE:
1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.
LEGEND:
LAND REQUIREMENT BOUNDARY
SITE BOUNDARY
TREE TO BE RETAINED
TREE TO BE TRANSPLANTED
TREE TO BE FELLED
TREE TO BE REMOVED
AQUILARIA SINENSIS (EXISTING)
AQUILARIA SINENSIS (MISSING)
AQUILARIA SINENSIS (DEAD)
AQUILARIA SINENSIS (SEEDLING)
CUT LINE 43-43
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.39
CUT LINE 44-44
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.40
CUT LINE 46-46
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.41
CUT LINE 47-47
SEE DRAWING NO. 60212563/C1/2/FIGURE 2.42
T1704
T2921
T2901
T3007
T2983
T3060
T3041
T3318
T3330
T3048
T3053
T3219
T2866
T3282
T3287
T2857
T2854
T2846
T2845
T3225
T3184
T3247
T3261A
T3262
T3260
T2812
T2803
T2070
T1818
T1835
T1868
T1880
T1877
T1887
T1947
T1906
T1944
T3149
T1993
N252
N472
N471
N383
N384
N388
N330
N327
N326
N306
N498
N320
N313
N317
N318
N
843200 N
843150 N

Figure 1.6

CUT LINE 25-25
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.17 & FIGURE 2.18

CUT LINE 26-26
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.18 & FIGURE 2.19

CUT LINE 27-27
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.19 & FIGURE 2.20

CUT LINE 28-28
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.20 & FIGURE 2.21

CUT LINE 29-29
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.23

CUT LINE 29-29
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.20 & FIGURE 2.21

CUT LINE 30-30
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.23 & FIGURE 2.24

CUT LINE 32-32
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.25

CUT LINE 33-33
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.26

CUT LINE 34-34
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.26

STK1834
STK1865
STK1887
STK2291
STK3618
STK2290
STK2310
STK2322
STK2479
STK2472
STK2701
STK2876
STK2900
STK2879
STK2927
STK2943
STK2935
STK2984
STK2974
STK2991
STK3009
STK3013
STK3014
EK01
EK02
STK3141
STK3107
STK3134
STK3114
STK3459
STK4017
STK4000
STK3323

842300 N
842250 N
42200 N
42150 N
2300 N
2250 N
2200 N
2150 N

NOTE:

1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- T151 TREE TO BE RETAINED
- T478 TREE TO BE TRANSPLANTED
- T573 TREE TO BE FELLED
- T157 TREE TO BE REMOVED
- AQUILARIA SINENSIS (ALIVE)
- AQUILARIA SINENSIS (FELLED BY OTHERS)
- AQUILARIA SINENSIS (DEAD/TOPPED)
- # EUONYMUS KWANGTUNGENSIS (SEEDLING)

CESS HILL

Figure 1.7

CUT LINE 33-33
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.24

CUT LINE 35-35
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.25

CUT LINE 36-36
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.26

CUT LINE 37-37
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.27

CUT LINE 38-38
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.28

CUT LINE 39-39
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.27

STK3630
STK3618
STK3542
STK3643
STK3712
AS02
AS03
STK3691
STK3736
STK4101
STK3882
STK3768
STK4253
STK4251

墓地
Graves

NOTE:

1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- T151 — TREE TO BE RETAINED
- T478 — TREE TO BE TRANSPLANTED
- T573 — TREE TO BE FELLED
- T157 — TREE TO BE REMOVED
- AQUILARIA SINENSIS (ALIVE)
- AQUILARIA SINENSIS (FELLED BY OTHERS)
- AQUILARIA SINENSIS (DEAD/TOPPED)
- AQUILARIA SINENSIS (SEEDLING)

Figure 1.8

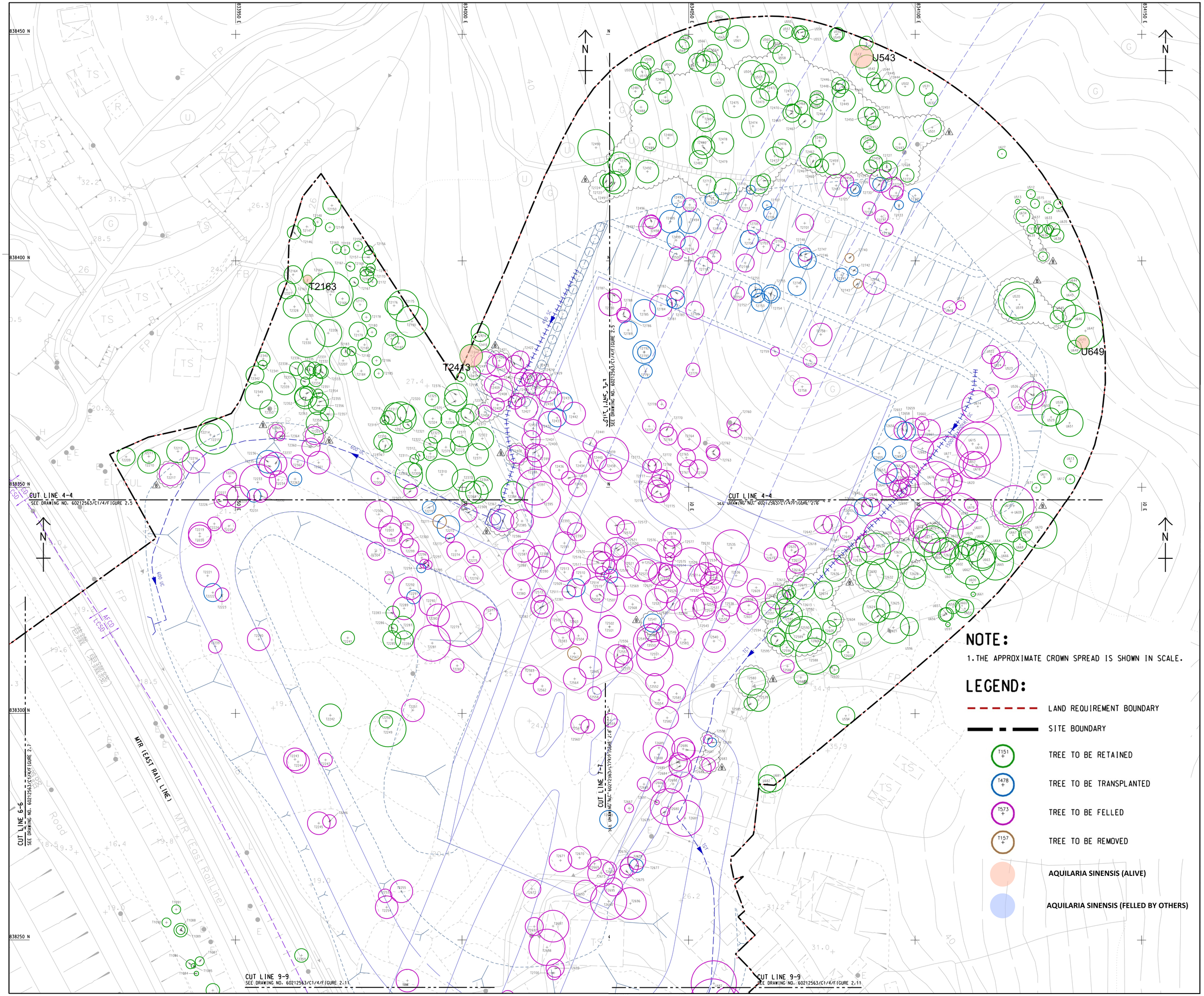

838450 N
838400 N
838350 N
838300 N
838250 N
833950 E
834000 E
834050 E
834100 E
834150 E
T2163
T2413
U543
U649
CUT LINE 4-4
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.5
CUT LINE 4-4
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.6
CUT LINE 6-6
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.7
CUT LINE 7-7
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.8
CUT LINE 9-9
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.11
CUT LINE 9-9
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.11
60D UC
AFCD
TCSD
TCT
MTR (EAST RAIL LINE)
Road
NOTE:
1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.
LEGEND:
LAND REQUIREMENT BOUNDARY
SITE BOUNDARY
TREE TO BE RETAINED
TREE TO BE TRANSPLANTED
TREE TO BE FELLED
TREE TO BE REMOVED
AQUILARIA SINENSIS (ALIVE)
AQUILARIA SINENSIS (FELLED BY OTHERS)

Figure 1.9

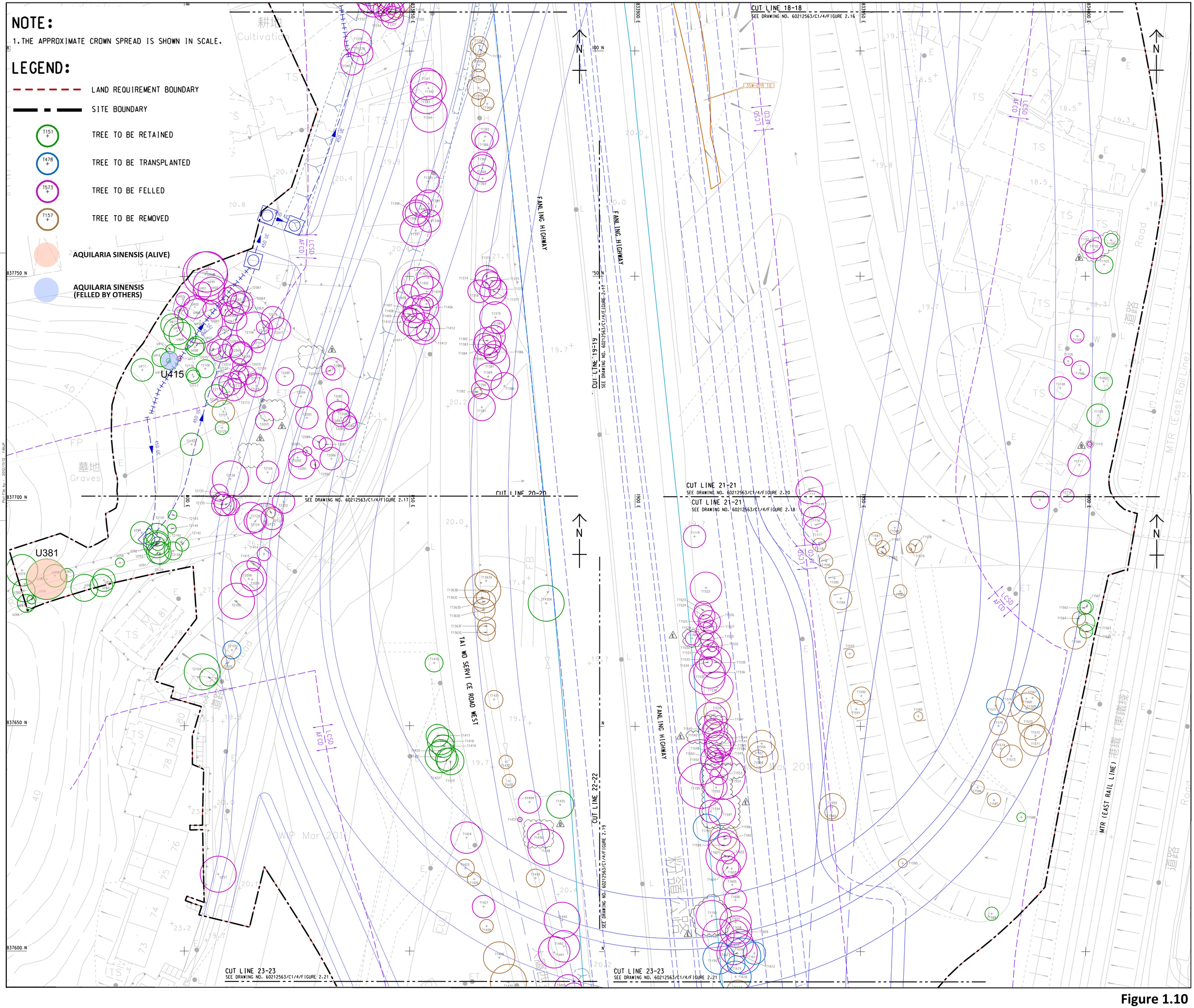
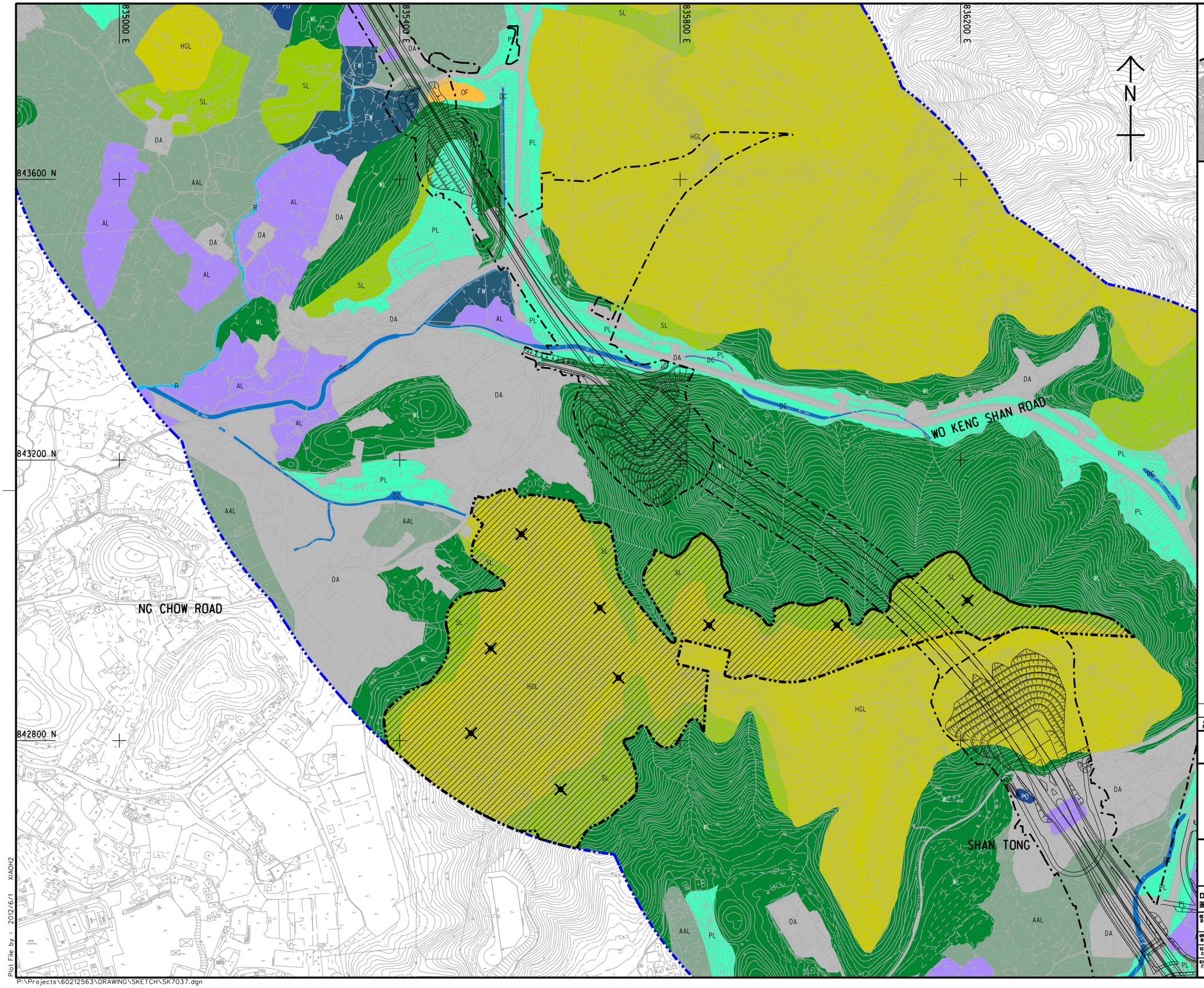
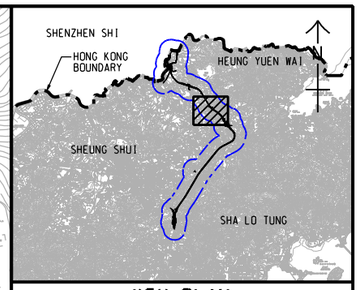

NOTE:
1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.
LEGEND:
LAND REQUIREMENT BOUNDARY
SITE BOUNDARY
T151 TREE TO BE RETAINED
T478 TREE TO BE TRANSPLANTED
T573 TREE TO BE FELLED
T157 TREE TO BE REMOVED
AQUILARIA SINENSIS (ALIVE)
AQUILARIA SINENSIS (FELLED BY OTHERS)
U415
U381
CUT LINE 18-18
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.16
CUT LINE 19-19
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.17
CUT LINE 20-20
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.17
CUT LINE 21-21
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.20
CUT LINE 21-21
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.18
CUT LINE 22-22
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.19
CUT LINE 23-23
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.21
CUT LINE 23-23
SEE DRAWING NO. 60212563/C1/4/FIGURE 2.21
FANLING HIGHWAY
TAI WO SERVI CE ROAD WEST
MTR (EAST RAIL LINE)
Cultivation
Graves
Road
WIP Mar 2011
LCSD
AFCD
N

Figure 1.10

Appendix E – Proposed location of Woodland Compensation Area in EIA Report





KEY PLAN
SCALE 1 : 150000

LEGEND:

- 500m ASSESSMENT AREA
- TENTATIVE WORKS AREA
- TUNNEL SECTION
- WL — WOODLAND
- SL — SHRUBLAND
- PL — PLANTATION
- FW — FRESHWATER WETLAND (WET AGRICULTURAL LAND (ACTIVE/ABANDONED))
- AL — ACTIVE AGRICULTURAL LAND
- AAL — ABANDONED AGRICULTURAL LAND
- HGL — HILLSIDE GRASSLAND
- PD — POND
- DC — DRAINAGE CHANNEL
- R — WATERCOURSE
- OF — OPEN FIELD
- DA — DEVELOPED AREA
- EXTENT OF WOODLAND COMPENSATION PLANTING AREA
- TENTATIVE WOODLAND MONITORING QUADRAT (THE EXACT LOCATION TO BE DETERMINED BY THE ENGINEER ON SITE)

REV. 修訂	DESCRIPTION 內容摘要	D.C.	P.E.	CHECKED 審核	DATE 日期

CEDD 土木工程拓展署 Civil Engineering and Development Department

LIANTANG/HEUNG YUEN WAI BOUNDARY CONTROL POINT AND ASSOCIATED WORKS (SITE FORMATION AND INFRASTRUCTURES) - DESIGN AND CONSTRUCTION

PROPOSED WOOLAND COMPENSATION AREA

AECOM

DRG.NO. 圖紙編號	60212563/SK7037
DESIGNED BY 設計	KW
CONTRACT NO. 合約編號	–
P. Dir. APPROVED 批准人	–
DRAWN BY 繪圖	YJP
STATUS 階段	
SCALE 比例	A1 1 : 2500
DIMENSIONS ARE IN 尺寸單位	METRES

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Appendix F –
Proposed Reception Site for *Euonymus kwangtungensis*

CUT LINE 25-25
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.17 & FIGURE 2.18

CUT LINE 26-26
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.18 & FIGURE 2.19

CUT LINE 27-27
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.20 & FIGURE 2.21

CUT LINE 28-28
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.21 & FIGURE 2.22

CUT LINE 29-29
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.23

CUT LINE 30-30
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.23 & FIGURE 2.24

CUT LINE 31-31
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.24 & FIGURE 2.25

CUT LINE 32-32
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.25 & FIGURE 2.26

CUT LINE 33-33
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.26

CUT LINE 34-34
SEE DRAWING NO. 60212563/C1/3/FIGURE FIGURE 2.26

EK01
EK02

NOTE:

1. THE APPROXIMATE CROWN SPREAD IS SHOWN IN SCALE.

LEGEND:

- LAND REQUIREMENT BOUNDARY
- SITE BOUNDARY
- T151 — TREE TO BE RETAINED
- T478 — TREE TO BE TRANSPLANTED
- T573 — TREE TO BE FELLED
- T157 — TREE TO BE REMOVED
- AQUILARIA SINENSIS (ALIVE)
- AQUILARIA SINENSIS (FELLED BY OTHERS)
- AQUILARIA SINENSIS (DEAD)
- # EUONYMUS KWANGTUNGENSIS (EXISTING)
- # EUONYMUS KWANGTUNGENSIS (PROPOSED FINAL LOCATION)

Photo of Reception Site for *Euonymus kwangtungensis*