

1 T2 EASTERN VENTILATION BUILDING, WITHIN LAM TIN INTERCHANGE

1.1 Background

- 1.1.1 The eastern ventilation building for the T2 is located within the Lam Tin Interchange which is located within the Ex-Cha Kwo Ling Kaolin Mine Site. The landscape and Visual impact of the construction and operation of the Lam Tin Interchange has been assessed under the EIA for the TKO-LTT assignment.
- 1.1.2 The T2 Eastern Ventilation building forms a very small element of the Lam Tin Interchange and the Landscape and Visual impact is significantly influenced by T2 Eastern Ventilation Building. The landscape and visual impact of the works for the Lam Tin Interchange is dominated by the slope works, noise enclosures and barriers within the interchange. .
- 1.1.3 The text below has been extracted from the TKO-LTT EIA submitted under Application No. EIA-210/2013 to present the context within which the T2 eastern ventilation will be set under the overall landscape and visual impact of the Lam Tin interchange.
- 1.1.4 The EIA for the TKO-LTT submitted under Application No. EIA-210/2013 covers all of the works at Lam Tin Interchange and at Tseung Kwan O. However, to avoid reproducing all of the text from the TKO-LTT EIA, only the major findings relevant to Lam Tin Interchange have been set out below.

1.2 Evaluation of Residual Impacts

- 1.2.1 *Prediction of Significance of Landscape and Visual Impacts*
- 1.2.1.1 *The potential significance of the landscape and visual impacts during the construction and operation phases, before and after mitigation, are provided in Tables 10.6.3, 10.6.4, 10.7.1 and 10.7.2. The assessment has adopted the methodology described in Section 10.3 and assumes that the assessed design is implemented and that the mitigation measures identified in Tables 10.8.1 and 10.8.2 are implemented and that the full effects of the soft landscape mitigation measures would be realized after 10 years. The residual landscape and visual impacts of the works after the Construction Phase and during the Operational Phase are summarised below. Residual Landscape Impacts at Year 10 at TKO and LT are mapped on Figure No.s 10.9.1, 10.9.3 and 10.9.2, 10.9.4 respectively. Residual Visual Impacts at Year 10 at TKO and LT are mapped on Figure No.s 10.9.5 to 10.9.7 and 10.9.8, 10.9.9 respectively.*
- 1.2.2 *Residual Landscape Impacts at Lam Tin*
- 1.2.2.1 *The following residual impacts are based on the cumulative impact of the TKO-LT Tunnel and the concurrent CBL.*
- 1.2.2.2 *Amenity/roadside planting/vegetation on modified slopes at Former Quarry (LT-LR8B) will experience the same Substantial impacts after the implementation of mitigation*

measures during the Construction Phase due to the necessity of felling a minimum number of existing trees. The impact of the loss of large numbers of existing trees within the ex Cha Kwo Ling Kaolin Mine Site will stay as Substantial at Day 1 even with the reinstatement of the planting as it will be immature and not yet provide significant mitigation effect. This will have reduced to Moderate by year 10 of the Operational Phase due to the maturing of the planting. It is to be expected that the residual impact will continue to decline as the planting further matures with age.

1.2.2.3 *All other Landscape Resources LT-LR1, LT-LR2, LT-LR3, LT-LR4, LT-LR5, LT-LR6, LT-LR7, LT-LR8A, LT-LR9A and LT-LR9B will experience Insubstantial residual impacts at Year 10 of the Operation Phase.*

1.2.2.4 *The Former Quarry Landscape (occupied) (LT-LCA9), will experience the same Substantial impacts after the implementation of mitigation measures during the Construction Phase due to the necessity of felling a minimum number of existing trees. However, peripheral tree screens will be maintained to mitigate initial impacts. In addition, the central area of the LCA is open and the works will not have a detrimental effect on this portion. The impact on landscape character within the ex Cha Kwo Ling Kaolin Mine Site will be reduced to Moderate at Day 1 due to extensive compensatory planting and sensitive design of road and associated building elements including noise enclosures. This will have reduced to Slight by year 10 of the Operational Phase due to the maturing of the planting. It is to be expected that the residual impact will continue to decline as the planting further matures with age.*

1.2.2.5 *All remaining Landscape Character Areas including LT-LCA1, LT-LCA2, LT-LCA3, LT-LCA4, LT-LCA5, LT-LCA6, LT-LCA7 and LT-LCA8 will experience Insubstantial residual impacts at Year 10 of the Operation Phase.*

1.2.3 *Residual Visual Impacts in Lam Tin*

1.2.3.1 *The existing VSRs with the highest residual visual impacts at Year 10 are residents in surrounding high rise residential estates which have relatively unobstructed elevated views and they will experience residual visual impacts of Moderate significance at Year 10. These VSRs include residents at Ping Tin Estate and Hong Ngar Court (LT-R3), Yau Lai Estate (LT-R4A), Cha Kwo Ling housing developments west of interchange (LT-R9B*), Kwong Tin Estate and Hong Pak Court (LT-R11) and Yau Tong Bay CDA Development (LT-CDA1).*

1.2.3.2 *Receivers who will experience visual impacts of Slight significance include staff and pupils of schools east of EHC (LT-GIC1), residents of The Canaryside and The Spectacle in Yau Tong (LT-R5), users of Yau Tong Road Playground (LT-O1), users of the public open space on the Cha Kwo Ling promenade (LT-O5*) and users of the planned open space north west of the Lam Tin Interchange (LT-O6*).*

1.2.3.3 *All remaining VSRs will experience residual visual impacts of Insubstantial significance at Year 10 after mitigation measures.*

1.2.3.4 *The residual visual impacts for all the individual VSRs in Lam Tin are described in*

more detail below.

- 1.2.3.5 *Following the implementation of mitigation measures residents of the existing Ping Tin Estate and Hong Ngar Court (LT-R3), Yau Lai Estate (LT-R4A) and Kwong Tin Estate and Hong Pak Court (LT-R11) will continue to experience Substantial visual impacts during the Construction Phase due to their unobstructed elevated views across the site. During the Operation Phase, visual impact significance will be reduced to Moderate/Substantial at Day 1 due to the absence of the temporary construction plant and activity and the effects of positive mitigation measures on the completed Lam Tin Interchange including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Moderate due to the maturing of the planting.*
- 1.2.3.6 *Following the implementation of mitigation measures residents in the planned Yau Tong Bay CDA development (LT-CDA1) and The planned housing development at Cha Kwo Ling north west of the Lam Tin Interchange (LT-R9B) will experience Substantial visual impacts during the construction stage due to their close, elevated views into the site of the Lam Tin Interchange. At Day 1, the impact significance will be reduced to Moderate/Substantial as views of construction will be replaced by views of the completed interchange with the positive effects of sensitive visual impacts including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual residual visual impacts will be reduced to Moderate due to the maturing of the planting.*
- 1.2.3.7 *Following the implementation of mitigation measures staff and pupils at schools east of EHC (LT-GIC1) will experience Moderate visual impacts due to their relatively low sensitivity and because of the screening effect of existing trees and advertising hoardings along the eastern boundary of the former quarry site. During the Operation Phase, these VSR group will experience Slight/Moderate visual impacts at Day 1 due to the effects of the mitigation measures including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Slight due to the maturing of the planting, particularly along the eastern edge of the Lam Tin Interchange.*
- 1.2.3.8 *Following the implementation of mitigation measures residents in The Canaryside and The Spectacle in Yau Tong (LT-R5) will continue to experience Moderate visual impacts during the Construction Phase due to their elevated views across the site. During the Operation Phase, visual impact significance will be reduced to Slight/Moderate at Day 1 due to the effects of the mitigation measures including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Slight due to the maturing of the planting, particularly along the eastern edge of the Lam Tin Interchange.*
- 1.2.3.9 *Following the implementation of mitigation measures users of Yau Tong Road Playground (LT-O1) will experience only Moderate visual impacts during the Construction Phase due to screening provided by the playground fencing and amenity tree planting and the effectiveness of screen hoardings and retention of existing tree screens along the eastern edge of the Lam Tin Interchange site. During the Operation*

Phase, visual impact significance will be reduced to Slight/Moderate at Day 1 due to the effects of the mitigation measures including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Slight due to the maturing of the planting, particularly along the eastern edge of the Lam Tin Interchange.

1.2.3.10 *Following the implementation of mitigation measures users of the planned public open space on the promenade south of Cha Kwo Ling Road (LT-O5*): will experience Moderate visual impacts at Day 1 due to the screening effect of the wooded ridge screening the Lam Tin Interchange to the north. During the Operation Phase, visual impact significance will be reduced to Slight/Moderate at Day 1 due to the effects of the mitigation measures including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Slight due to the maturing of the planting, particularly along the southern edge of the Lam Tin Interchange.*

1.2.3.11 *Following the implementation of mitigation measures users of the public open space north west of the ex Cha Kwo Ling Kaolin Mine Site (LT-O6*) will experience Moderate visual impacts at Day 1 as most of the Lam Tin Interchange will be screened by the former quarry walls and associated tree planting. During the Operation Phase, visual impact significance will be reduced to Slight/Moderate at Day 1 due to the effects of the mitigation measures including sensitive design of buildings and structures and extensive planting at grade, on slopes and on buildings and structures. At Year 10 the residual visual impacts will be reduced to Slight due to the maturing of the planting, particularly along the southern edge of the Lam Tin Interchange.*

1.2.4 *Cumulative Landscape and Visual Impacts*

1.2.4.1 *The major concurrent projects in the Lam Tin area are the comprehensive development at Yau Tong Bay CDA zone and the planned residential development on the Ex-Cha Kwo Ling Kaolin Mine Site ("R(A)4" zone). A planning application has been submitted for a mixed residential, commercial and community use development along the waterfront of Yau Tong Bay. The landscape impacts would be relatively small as it would be constructed on vacant industrial land. The visual impacts would be significant however with the likely addition of a large number of residential towers. The planning intent is to enhance the existing townscape setting which is currently run-down and derelict. Residential developments have been planned on the Ex-Cha Kwo Ling Kaolin Mine Site to the north west of the Lam Tin Interchange and the waterfront is zoned for public open space and G/IC uses. The area is undergoing rapid change from its existing condition. If the Lam Tin Interchange was the only proposed development in the area, the landscape and visual impacts would appear relatively more significant. However, as it will be constructed within the context of the planned residential development to the west and the CDA development to the east, viewed in the context of the cumulative impacts the relative impacts of the project appear to be less.*

1.2.4.2 *The cumulative landscape impacts that the TKO-LT Tunnel itself brings to this development context at Lam Tin include the following.*

- *Loss of existing vegetation (including approximately 960 existing trees) at amenity/roadside planting/vegetation on modified slope at Former Quarry (LT-LR8B). Extensive compensatory planting is proposed to offset this loss.*
- *Loss of a portion (only 12 no. trees will be impacted along the edge of the LR which has a total area of in an area of approximately 6ha) of grassland/shrubland mosaic at the ex- Cha Kwo Ling Kaolin Mine Site (LT-LR98). This area will be reinstated with appropriate planting species.*
- *Loss of roadside trees at Yau Tong Bay Industrial Waterfront Area (LT-LR2) and due to minor road amendments along the EHC corridor. All affected trees will be replaced with compensatory roadside planting.*

1.2.4.3 *The cumulative visual impacts that the TKO-LT Tunnel itself brings to this development context at Lam Tin include the following:*

- *The Lam Tin Interchange with depressed carriageway, elevated slip road connections and associated service buildings. This will transform the character of the former quarry site to elevated VSRs in surrounding high-rise residential towers.*
- *The existing site consists of a tree fringed enclosure with an open paved central area used as a temporary storage area. The rock-cut walls of the quarry form a distinctive edge to the northern and western edge of the site. The proposed interchange will result in a more intensive use of the space and visually it will result in a more dynamic scene with a greener outlook overall due to extensive mitigation planting.*
- *Visual impacts will also be caused by the road reconfigurations along the EHC corridor and the proposed roundabout to the south on Cha Kwo Ling Road. The existing visual character of this area is already heavily dominated by roads and these modifications will not represent a significant increase in visual impact.*
- *In addition, there is the opportunity to rationalize and enhance the visual quality of the area, which is currently has a rather neglected atmosphere, through the introduction of consistent roadside treatments.*

1.2.4.4 *Overall, it is considered that the cumulative landscape and visual impacts generated by the TKO-LT Tunnel at TKO are acceptable within the context of the transitional landscape of which it forms a part. The planning intent for the area sets the development within a zone of G/IC, Residential and CDA lands uses. The principle landscape visual impacts can be mitigated through mitigation measures including extensive compensatory planting and appropriate, sensitive design and finishing of built structures*

1.3 Conclusions

1.3.1 Compatibility of TKO-LT Tunnel with Planning Intent

1.3.1.1 *From a review of the current planning legislation and OZP 's the proposed development is compatible with the broad planning goals. Provision has been made on the Approved*

Tseung Kwan O ZP No. S/TKO/20 for the TKO-LT Tunnel (a „cross bay bridge road“ has been indicated on the Tseung Kwan O ZP since 1992) and the area affected on the Lam Tin side is primarily zoned as GIC uses which is compatible with the intended development. Both TKO and Lam Tin are areas in transition with major developments planned concurrently with the proposed tunnel.

1.3.2 *Residual Landscape Impacts – Lam Tin*

1.3.2.1 *For the amenity/roadside planting within the former quarry site (LT-LR8B) the residual impacts by year 10 of the Operational Phase will be Moderate due to the maturing of extensive compensatory planting at grade, on slopes and rock-cut benches. It is to be expected that the residual impact will continue to decline as the planting further matures with age.*

1.3.2.2 *All other Landscape Resources LT-LR1, LT-LR2, LT-LR3, LT-LR4, LT-LR5, LT-LR6, LT-LR7, LT-LR8A, LT-LR9A and LT-LR9B will experience Insubstantial residual impacts at Year 10 due to the low level or absence of anticipated impacts.*

1.3.2.3 *For Former quarry site (occupied) Landscape Character Area (LT-LCA9), the residual impacts by year 10 of the Operational Phase will be Slight. This will be due to the combined mitigation effects including sensitive design of depressed road, associated service and tunnel portal buildings, noise enclosures and barriers, green slope treatments and extensive compensatory tree planting. It is to be expected that the residual impact will continue to decline as the planting further matures with age.*

1.3.2.4 *All other Landscape Character Areas LT-LCA1, LT-LCA2, LT-LCA3, LT-LCA4, LT-LCA5, LT-LCA6, LT-LCA7 and LT-LCA8 will experience Insubstantial residual impacts at Year 10 due to the low level or absence of anticipated impacts.*

1.3.3 *Residual Visual Impacts – Lam Tin*

1.3.3.1 *The primary visual impacts at Lam Tin come from the construction of the Lam Tin Interchange within the Ex-Cha Kwo Ling Kaolin Mine Site. The existing quarry walls provide a high degree of visual containment and the principal VSRs affected are the surrounding existing and planned high rise residential blocks which define the ZVI to the north west, north east and south.*

1.3.3.2 *The visual quality of the former quarry site is limited due to the fact that it has large expanses of paving used for parking and storage and stark shear walls and steep slopes formed from previous quarrying activity along the western, northern and eastern edges. The proposed mitigation measures for the Lam Tin Interchange include the sensitive design of form and finishes of all structures including at grade and elevated slip roads, service and tunnel portal buildings, noise enclosures and barriers, retaining walls and slopes and extensive tree, shrub and climber planting on all available non-operational at-grade areas, on slopes and rock-cut benches and building roofs. The combined effect of these treatments will be to transform a plain, visually uninteresting area into one with dynamic visual characteristics and increase the overall level and quality of greening of the site compared to the existing condition.*

- 1.3.3.3 *The existing VSRs with the highest residual visual impacts at Year 10 are*
- *Residents in surrounding high rise residential estates which have relatively unobstructed elevated views will experience visual impacts of Moderate significance at Year 10. These VSRs include Residents at Ping Tin Estate and Hong Ngar Court (LT-R3), Residents at Yau Lai Estate (LT-R4A), Residents at Cha Kwo Ling housing developments west of interchange (LT-R9B*), Residents at Kwong Tin Estate and Hong Pak Court (LT-R11) and Residents at Yau Tong Bay CDA (LT-CDA1)*
- 1.3.3.4 *Receivers who will experience visual impacts of Slight significance include Staff and pupils of schools east of EHC (LT-GIC1), Residents of The Canaryside and The Spectacle in Yau Tong (LT-R5), Users of Yau Tong Road Playground (LT-O1), Users of public open space on promenade (LT-O5*) and Users of planned open space north west of Lam Tin Interchange (LT-O6*).*
- 1.3.3.5 *All remaining VSRs will experience residual visual impacts of Insubstantial significance at Year 10 after mitigation measures.*
- 1.3.4 *Overall Conclusion*
- 1.3.4.1 *In accordance to the criteria and guidelines for evaluating and assessing impacts as stated in Annex 10 and 18 of the TM- EIAO, overall, it is considered that the residual landscape and visual impacts of the proposed TKO-LT Tunnel are acceptable with mitigation during the construction and operation phases....*
- 1.3.4.2 *For Lam Tin, the Moderate adverse landscape and visual impacts are also considered acceptable given the planning intent for the area which includes major redevelopment of the waterfront and the abandoned ex-Cha Kwo Ling Kaolin Mine Site. The number of VSRs affected is relatively low due to the visual containment of the site. In addition, the existing visual quality of the proposed site for the interchange is relatively low and the proposed development can be integrated into the overall development of the area with impacts reduced to acceptable levels provided the recommended mitigation measures are implemented.*

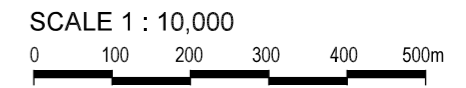
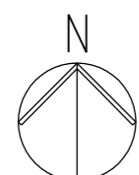
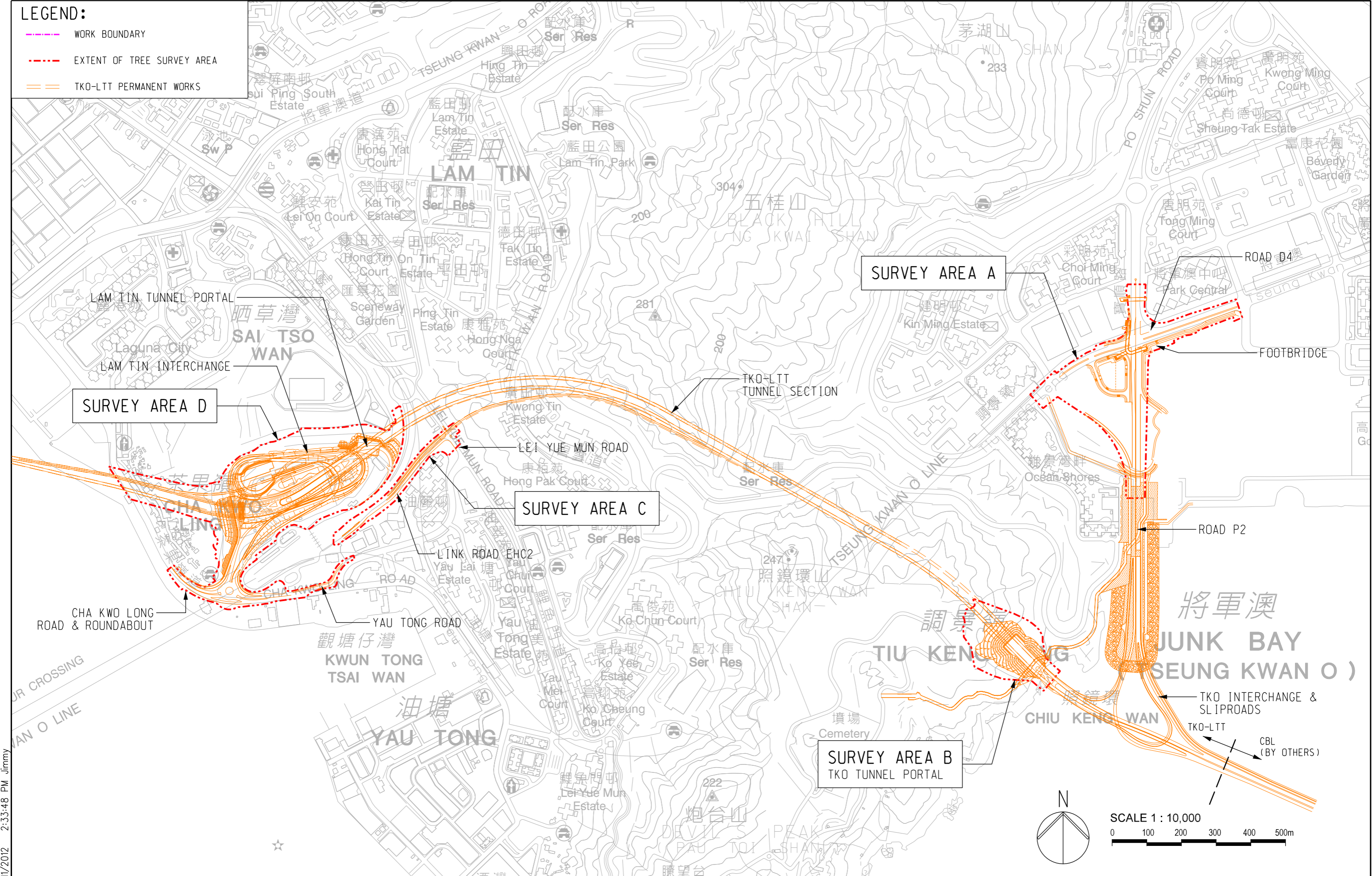
TKO-LTT Referenced Drawings

Figure Number	Drawing title
URB/MCA75/TA/000 Rev(B)	Tree Survey Key Plan
URB/MCA75/TA/002 Rev(B)	Tree Survey & Compensatory Planting Key Plan – Area C & D
URB/MCA75/TA/201 Rev(B)	Tree Survey Plan – Area C & D
URB/MCA75/TA/203 Rev(B)	Tree Survey Plan – Area C & D
URB/MCA75/TA/204 Rev(B)	Tree Survey Plan – Area D
URB/MCA75/TA/205 Rev(B)	Tree Survey Plan – Area C & D
URB/MCA75/TA/206 Rev(B)	Tree Survey Plan – Area D
URB/MCA75/TA/207 Rev(B)	Tree Survey Plan – Area D
URB/MCA75/TA/208 Rev(B)	Tree Survey Plan – Area D
10.4.3 Rev(A)	Review of Planning Framework – Lam Tin
10.5.1.1	Overall View of Baseline Landscape Resources – TKO and Lam Tin
10.5.3.1a	Baseline Landscape Resources – Lam Tin
10.5.3.1b	Baseline Landscape Resources – Lam Tin
10.5.3.2 Rev(A)	Baseline Landscape Resources Photographs (LT)
10.5.4.1	Baseline Landscape Character Areas – Lam Tin
10.5.4.2 Rev(A)	Baseline Landscape Character Photographs (LT)
10.5.6.1	Baseline VSRs During Construction – Lam Tin
10.5.6.2	Baseline VSRs During Construction – Lam Tin
10.5.6.3	Baseline VSRs During Construction – Lam Tin
10.5.6.4	Baseline VSRs During Construction – Lam Tin
10.5.6.5 Rev(A)	Baseline VSR Photographs - LT
10.5.6.6 Rev(A)	Baseline VSR Photographs - LT
10.5.6.7 Rev(A)	Baseline VSR Photographs - LT
10.5.6.8 Rev(A)	Baseline VSR Photographs - LT
10.5.6.9 Rev(A)	Baseline VSR Photographs - LT
10.5.6.10 Rev(A)	Baseline VSR Photographs - LT
10.5.6.11 Rev(A)	Baseline VSR Photographs - LT
10.5.6.12 Rev(A)	Baseline VSR Photographs - LT
10.5.6.13 Rev(A)	Baseline VSR Photographs - LT

Figure Number	Drawing title
10.5.6.14 Rev(A)	Baseline VSR Photographs - LT
10.5.6.15 Rev(A)	Baseline VSR Photographs - LT
10.8.3 Rev(D)	Landscape Mitigation Measures During Construction – Lam Tin
10.8.3 Rev(E)	Landscape Mitigation Measures During Operation – Lam Tin
10.8.7.1	Photomontage Key Plan – Lam Tin
10.8.7.2	Photomontage From VSR LT / T1 (Sheet 1 Of 2)
10.8.7.3	Photomontage From VSR LT / T1 (Sheet 2 Of 2)
10.8.7.4	Photomontage From VSR LT / GIC1 (Sheet 1 Of 2)
10.8.7.5	Photomontage From VSR LT / GIC1 (Sheet 2 Of 2)
10.8.7.6	Photomontage From VSR LT / R5 (Sheet 1 Of 2)
10.8.7.7	Photomontage From VSR LT / R5 (Sheet 2 Of 2)
10.8.7.8 Rev(A)	Photomontage From VSR LT / R4 (Sheet 1 Of 2)
10.8.7.9 Rev(A)	Photomontage From VSR LT / R4 (Sheet 2 Of 2)
10.9.2	Residual Impacts On Landscape Resources With Mitigation, Year 10 – Lam Tin
10.9.4	Residual Impacts On Landscape Character Areas With Mitigation, Year 10 – Lam Tin
10.9.8	Residual Impacts On VSRs, Year 10 – Lam Tin
10.9.9	Residual Impacts On VSRs, Year 10 – Lam Tin

LEGEND:

- WORK BOUNDARY
- - - EXTENT OF TREE SURVEY AREA
- TKO-LTT PERMANENT WORKS






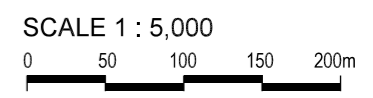
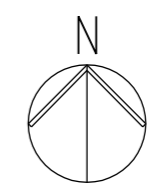
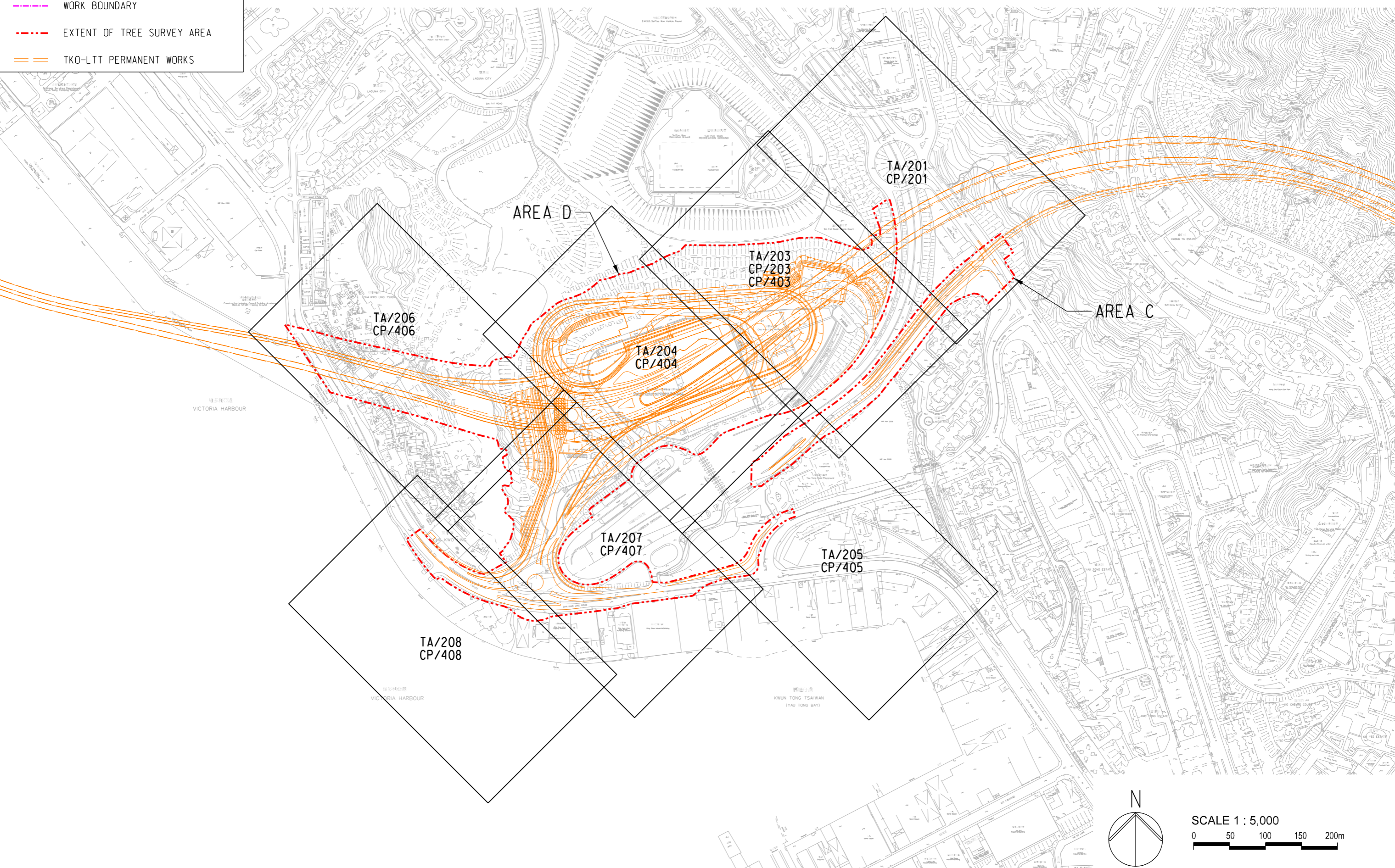
AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
TREE SURVEY KEY PLAN

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LEGEND:

-  WORK BOUNDARY
-  EXTENT OF TREE SURVEY AREA
-  TKO-LTT PERMANENT WORKS



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HONG KONG

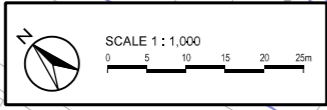
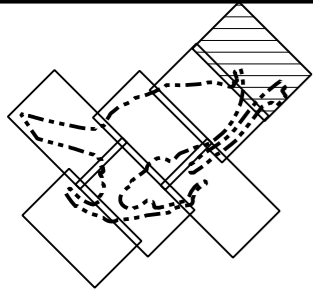


AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

TREE SURVEY & COMPENSATORY PLANTING KEY PLAN - AREA C & D

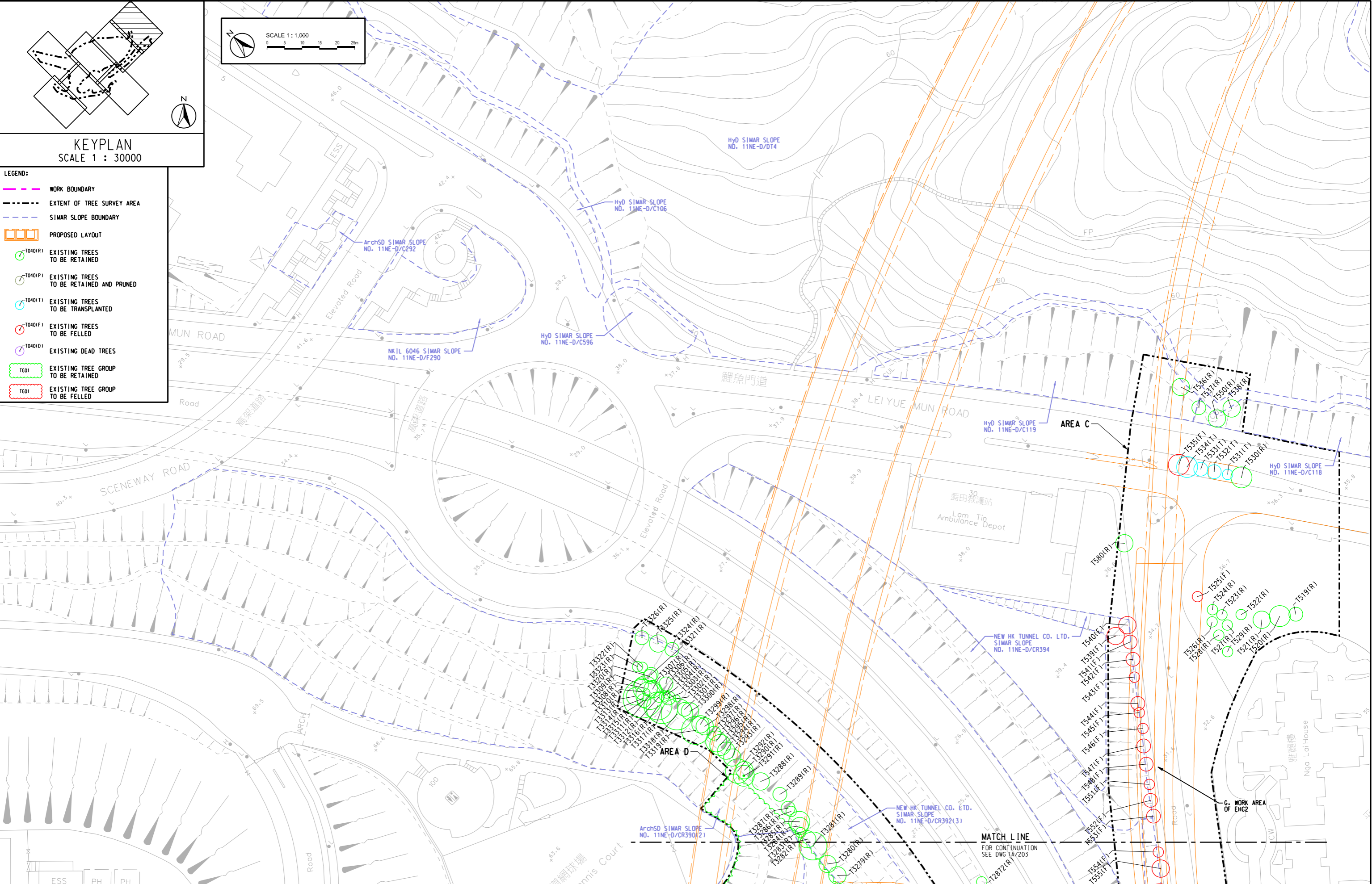
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KEYPLAN
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- LEGEND:
- WORK BOUNDARY
 - EXTENT OF TREE SURVEY AREA
 - SIMAR SLOPE BOUNDARY
 - PROPOSED LAYOUT
 - T040(R) EXISTING TREES TO BE RETAINED
 - T040(P) EXISTING TREES TO BE RETAINED AND PRUNED
 - T040(T) EXISTING TREES TO BE TRANSPLANTED
 - T040(F) EXISTING TREES TO BE FELLED
 - T040(D) EXISTING DEAD TREES
 - T01 EXISTING TREE GROUP TO BE RETAINED
 - T01 EXISTING TREE GROUP TO BE FELLED



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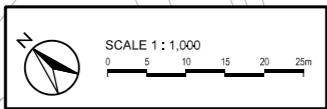
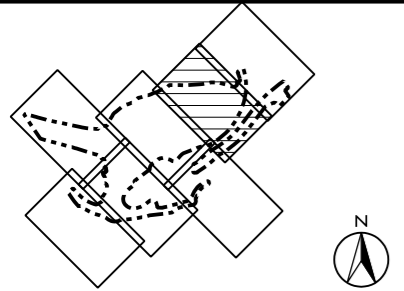


AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

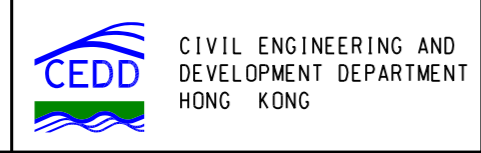
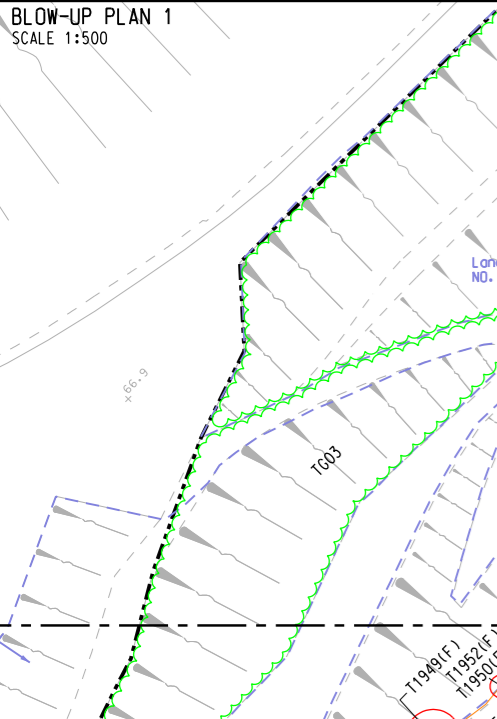
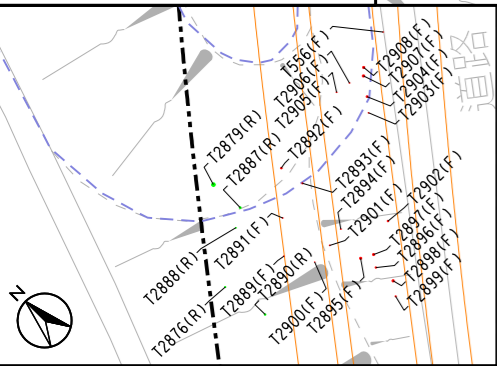
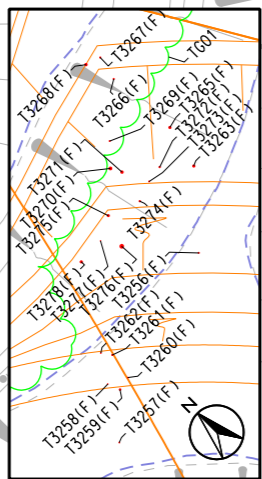
TREE SURVEY PLAN - AREA C & D

SHEET 1 OF 8

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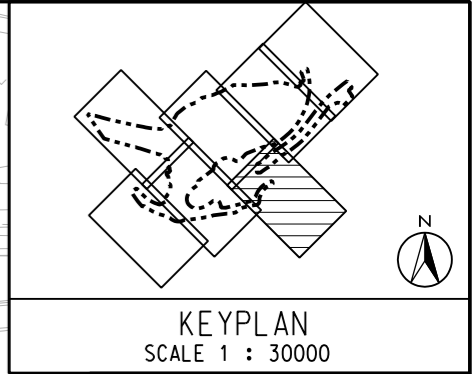
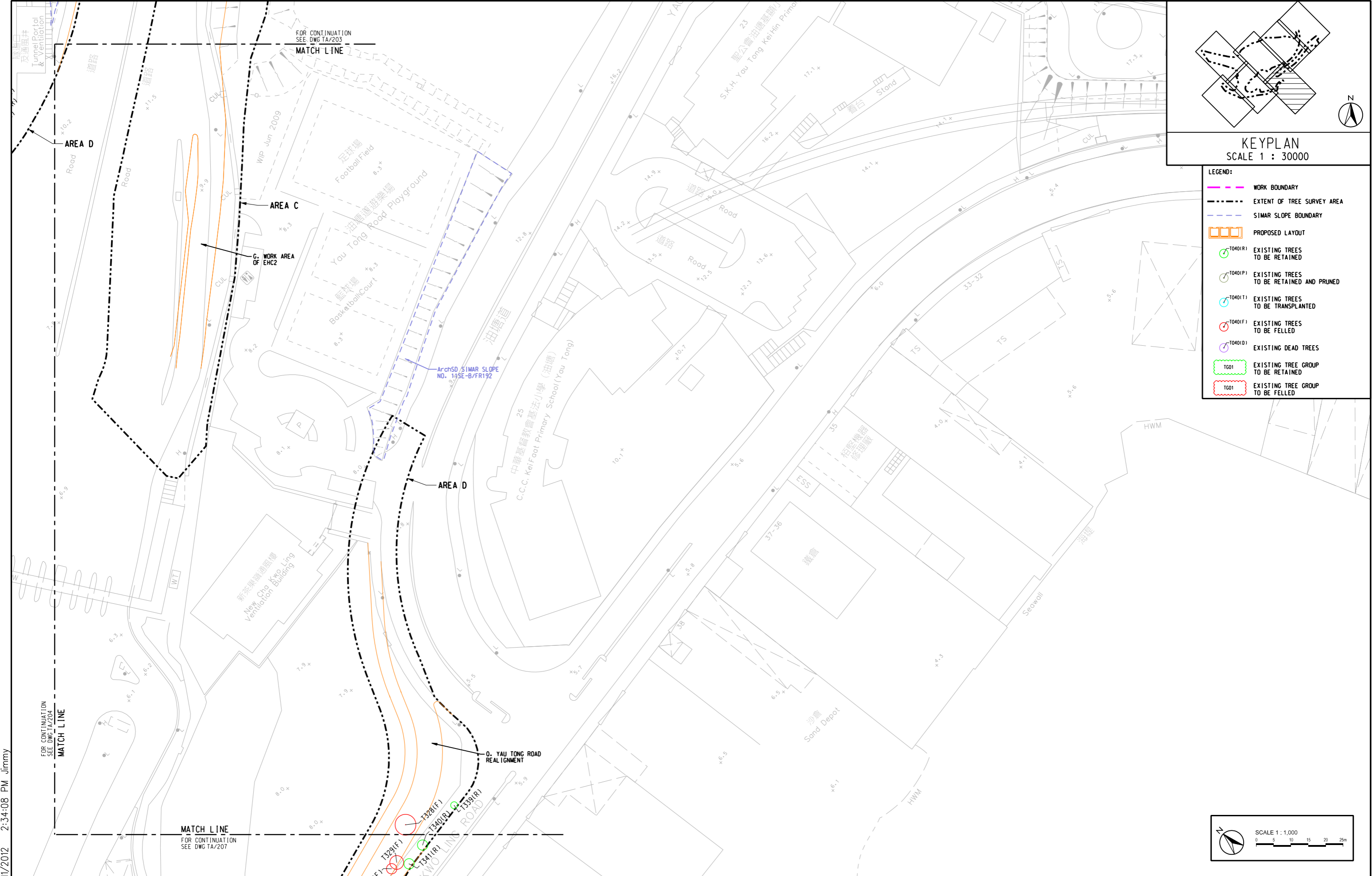


- LEGEND:**
- WORK BOUNDARY
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 - T040(R) EXISTING TREES TO BE RETAINED
 - T040(P) EXISTING TREES TO BE RETAINED AND PRUNED
 - T040(T) EXISTING TREES TO BE TRANSPLANTED
 - T040(F) EXISTING TREES TO BE FELLED
 - T040(D) EXISTING DEAD TREES
 - T001 EXISTING TREE GROUP TO BE RETAINED
 - T001 EXISTING TREE GROUP TO BE FELLED

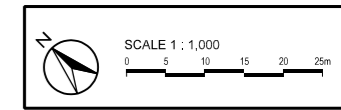


AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
TREE SURVEY PLAN - AREA C & D

SCALE	A3 1 : 1000	DATE	JUN. 2012
CHECK	-	DRAWN	AK
JOB No.		FIGURE No.	URB/MCA75/TA/203
		REV	B



- LEGEND:
- WORK BOUNDARY
 - EXTENT OF TREE SURVEY AREA
 - SIMAR SLOPE BOUNDARY
 - PROPOSED LAYOUT
 - EXISTING TREES TO BE RETAINED
 - EXISTING TREES TO BE RETAINED AND PRUNED
 - EXISTING TREES TO BE TRANSPLANTED
 - EXISTING TREES TO BE FELLED
 - EXISTING DEAD TREES
 - EXISTING TREE GROUP TO BE RETAINED
 - EXISTING TREE GROUP TO BE FELLED



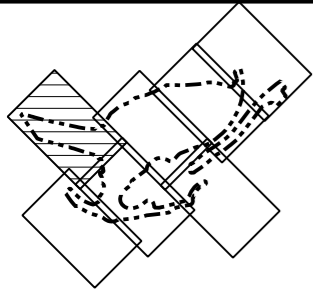
PLOT DATE: 7/11/2012 2:34:08 PM Jimmy



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
TREE SURVEY PLAN - AREA C & D

SCALE	A3 1 : 1000	DATE	JUN. 2012
CHECK	-	DRAWN	AK
JOB No.		FIGURE No.	URB/MCA75/TA/205
		REV	B

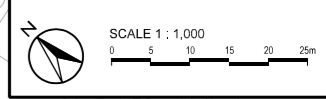
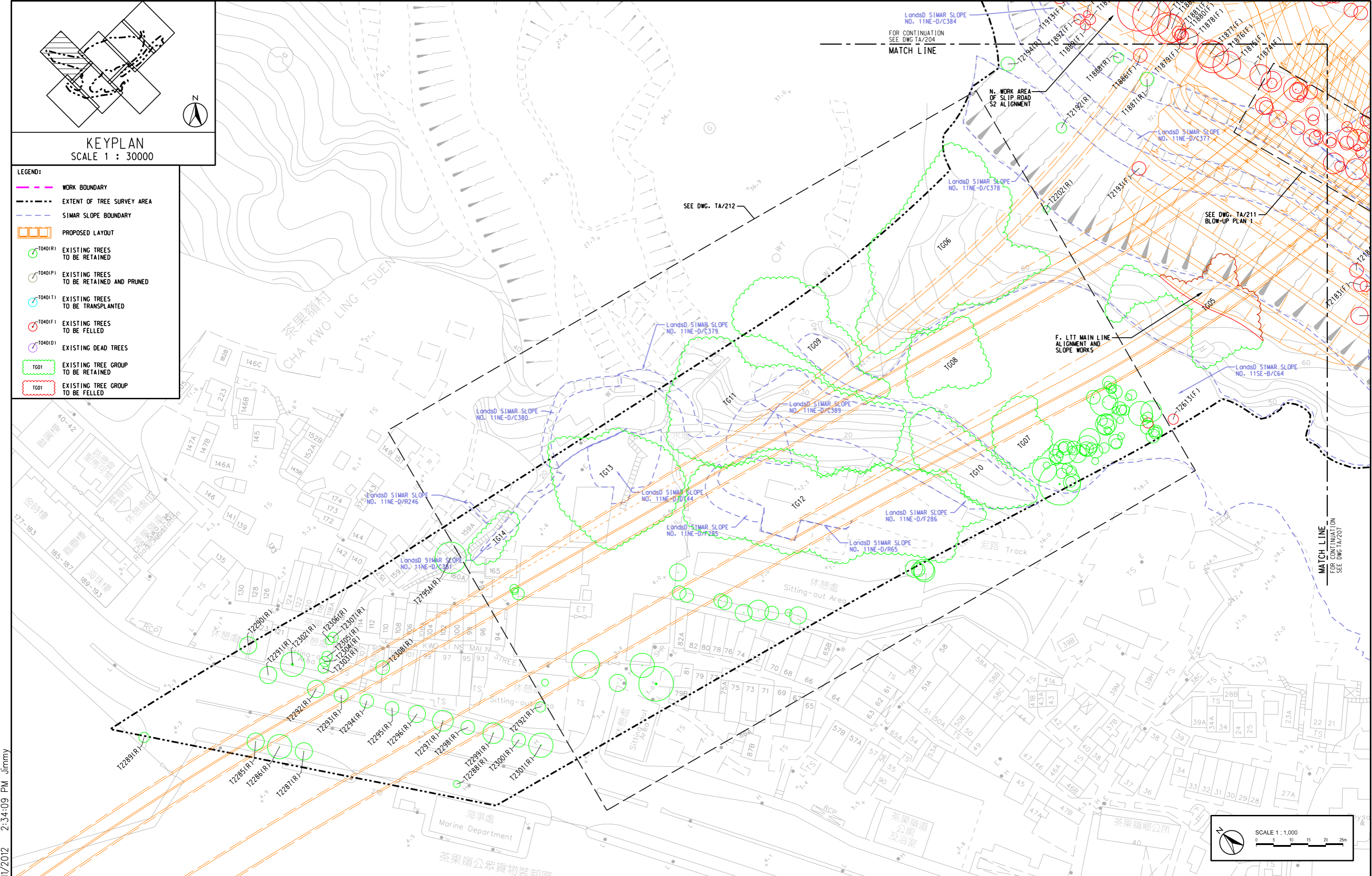
SHEET 5 OF 8



KEYPLAN
SCALE 1 : 30000



- LEGEND:
- WORK BOUNDARY
 - - - EXTENT OF TREE SURVEY AREA
 - SIMAR SLOPE BOUNDARY
 - PROPOSED LAYOUT
 - T040(R) EXISTING TREES TO BE RETAINED
 - T040(P) EXISTING TREES TO BE RETAINED AND PRUNED
 - T040(T) EXISTING TREES TO BE TRANSPLANTED
 - T040(F) EXISTING TREES TO BE FELLED
 - T040(D) EXISTING DEAD TREES
 - T01 EXISTING TREE GROUP TO BE RETAINED
 - T01 EXISTING TREE GROUP TO BE FELLED



PLOT DATE: 7/11/2012 2:34:09 PM Jimmy



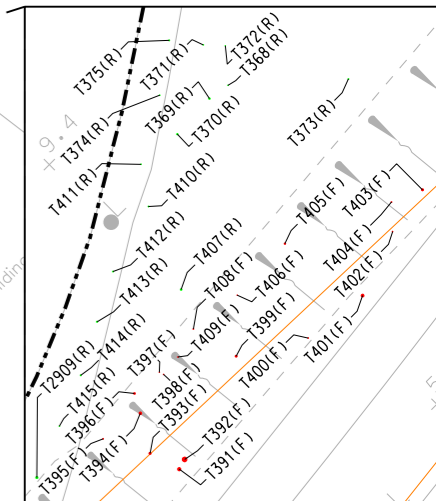
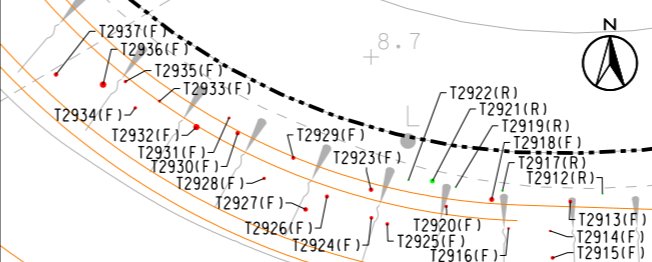
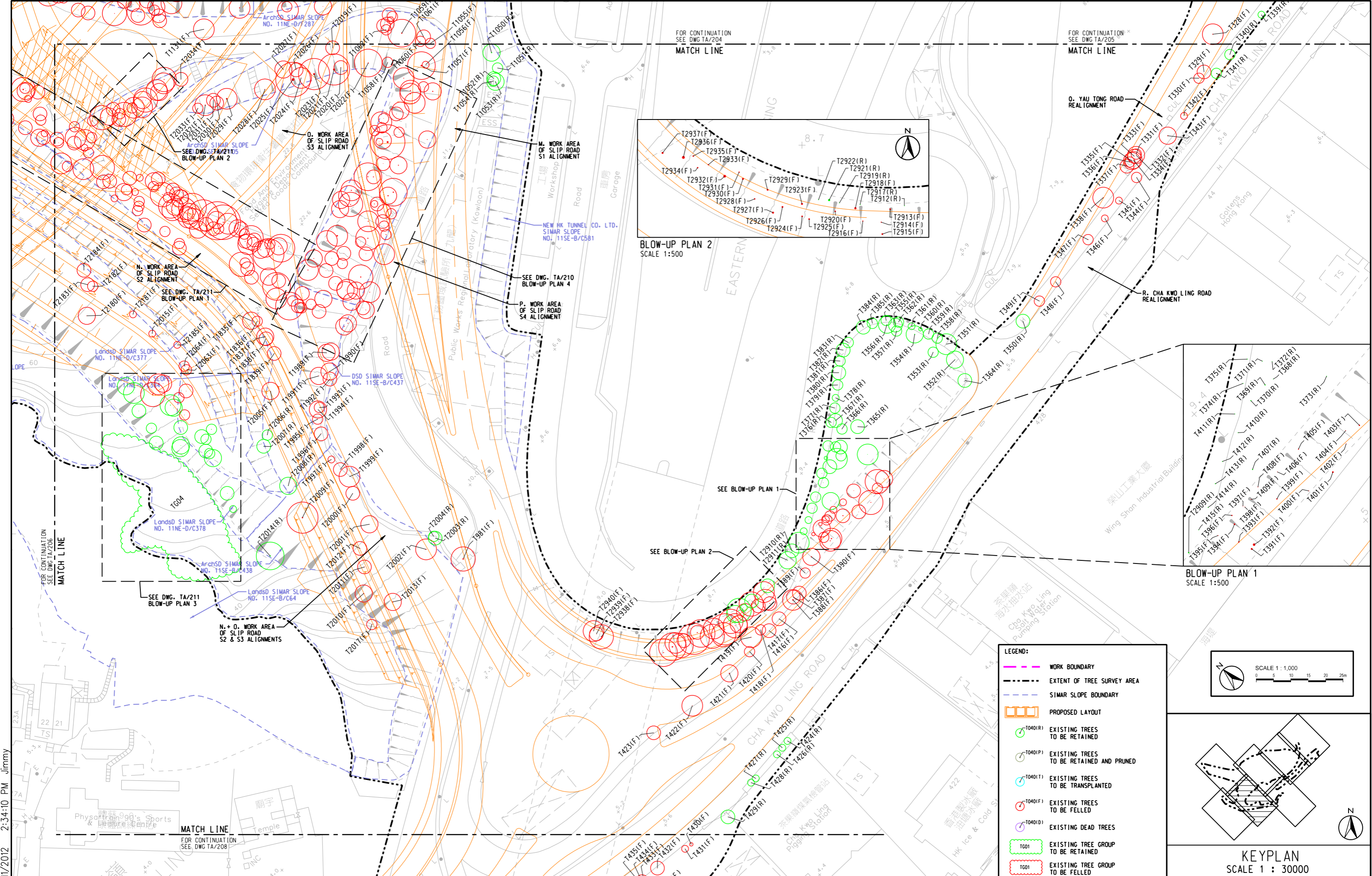
AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

TREE SURVEY PLAN - AREA D

SHEET 6 OF 8

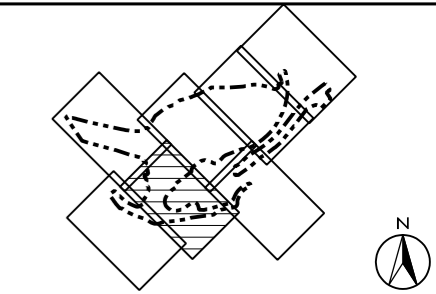
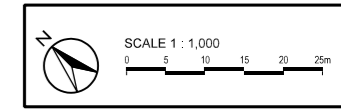
SCALE	A3 1 : 1000	DATE	JUN. 2012
CHECK	-	DRAWN	AK
JOB No.		FIGURE No.	URB/MCA75/TA/206
		REV	B

[SZ0]j:\mca75\dgn-ga\URB_MCA75_TA-206.dgn



LEGEND:

- WORK BOUNDARY
- EXTENT OF TREE SURVEY AREA
- SIMAR SLOPE BOUNDARY
- PROPOSED LAYOUT
- T040(R) EXISTING TREES TO BE RETAINED
- T040(P) EXISTING TREES TO BE RETAINED AND PRUNED
- T040(T) EXISTING TREES TO BE TRANSPLANTED
- T040(F) EXISTING TREES TO BE FELLED
- T040(D) EXISTING DEAD TREES
- T001 EXISTING TREE GROUP TO BE RETAINED
- T001 EXISTING TREE GROUP TO BE FELLED



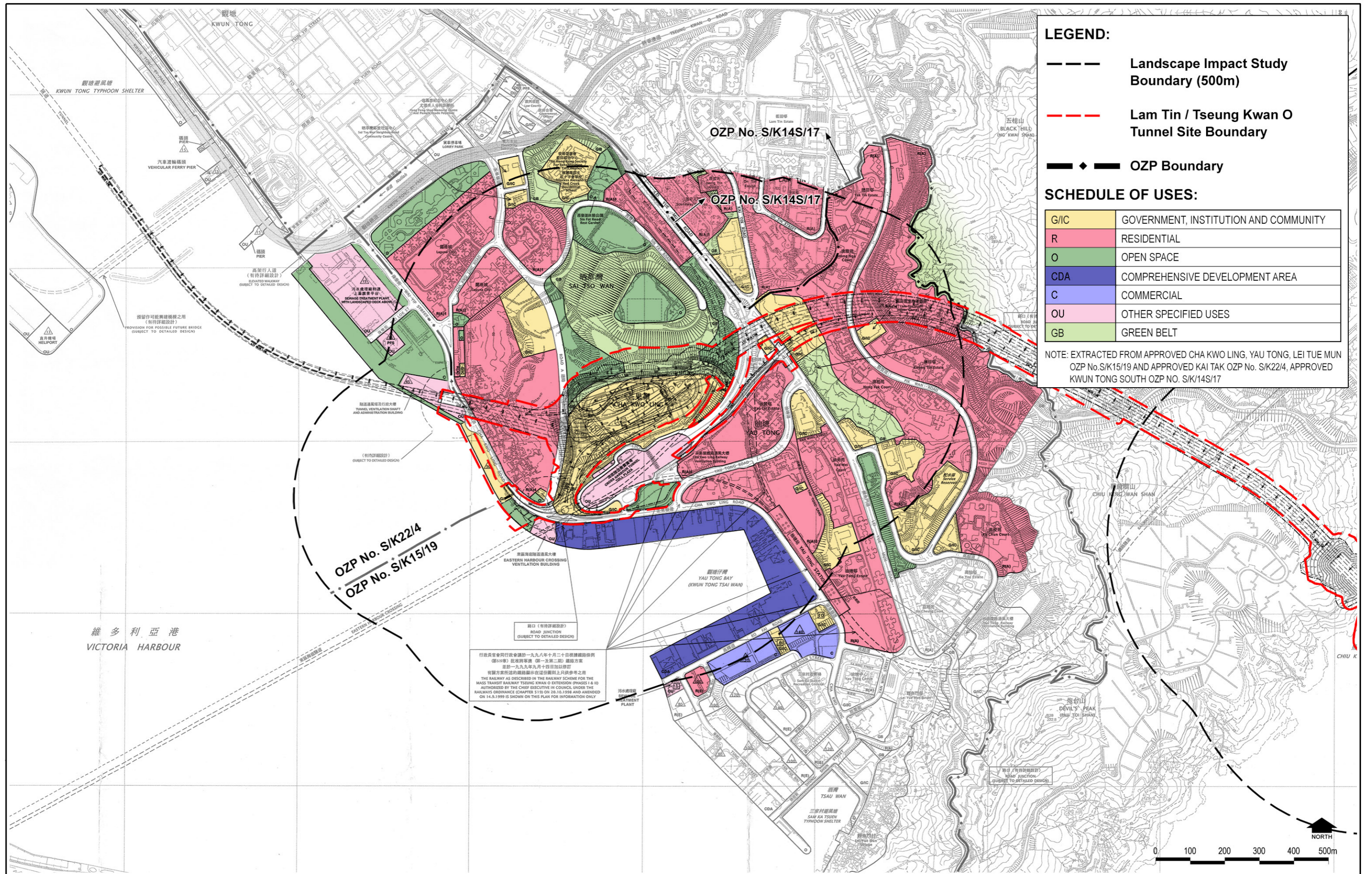
AECOM

CEDD CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT HONG KONG

Wabia 雅邦

AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
TREE SURVEY PLAN - AREA D

SCALE	A3 1 : 1000	DATE	JUN. 2012
CHECK	-	DRAWN	AK
JOB No.		FIGURE No.	URB/MCA75/TA/207
		REV	B



行政長官會同行政會議於一九九八年十月二十日根據鐵路條例 (第16章) 批准實施第一及第二期鐵路方案。此方案於一九九九年九月十日經立法局通過。有關方案所指的鐵路顯示在該圖則上以供參考之用。THE RAILWAY AS DESCRIBED IN THE RAILWAY SCHEME FOR THE MASS TRANSIT RAILWAY 'TSEUNG KWAN O EXTENSION (PHASES 1 & 2)' AUTHORIZED BY THE CHIEF EXECUTIVE IN COUNCIL UNDER THE RAILWAYS ORDINANCE (CHAPTER 519) ON 20.10.1998 AND AMENDED ON 14.9.1999 IS SHOWN ON THIS PLAN FOR INFORMATION ONLY.



FIGURE 10.5.3.1a

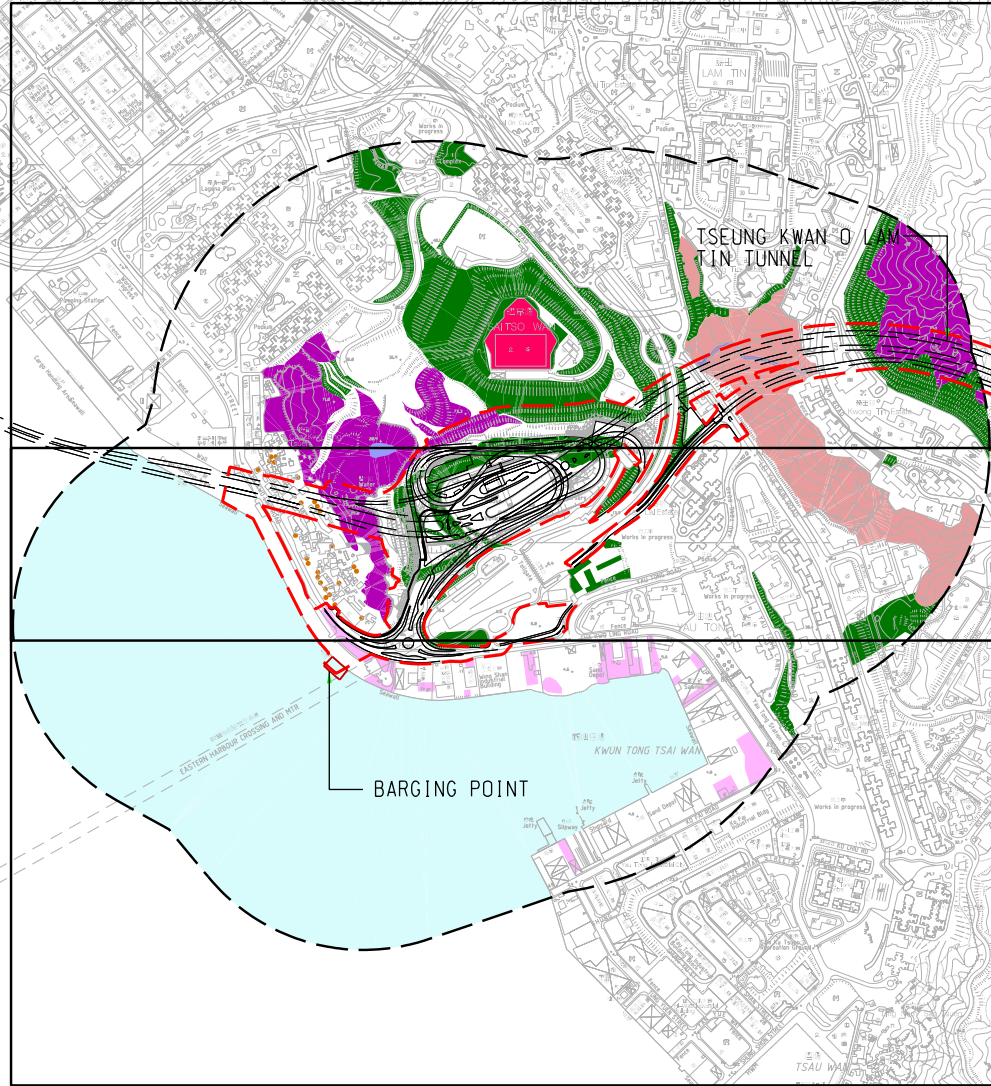


FIGURE 10.5.3.1b

FIGURE 10.5.1.1a

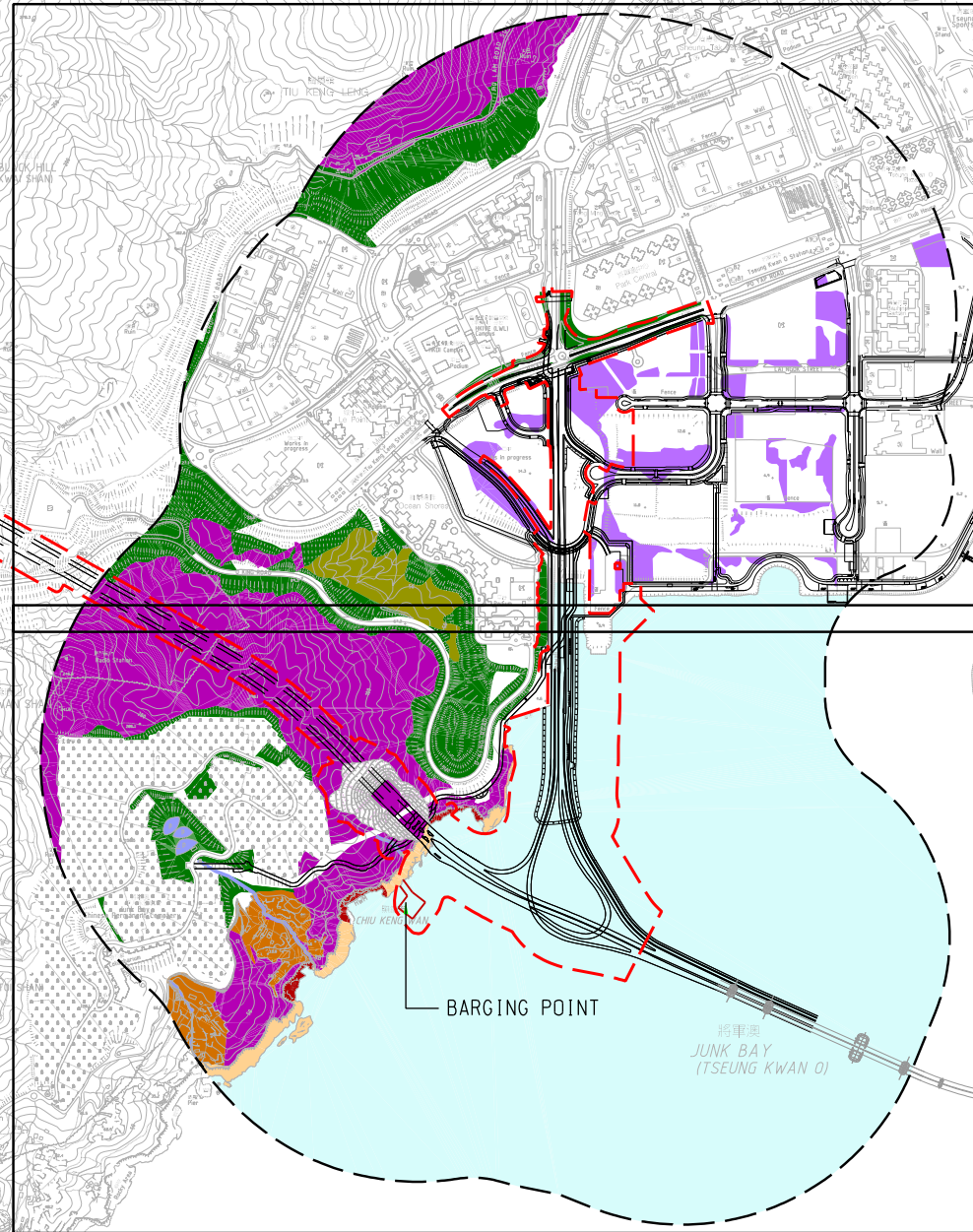


FIGURE 10.5.1.1b

0 150 300 450 600 750m



AECOM



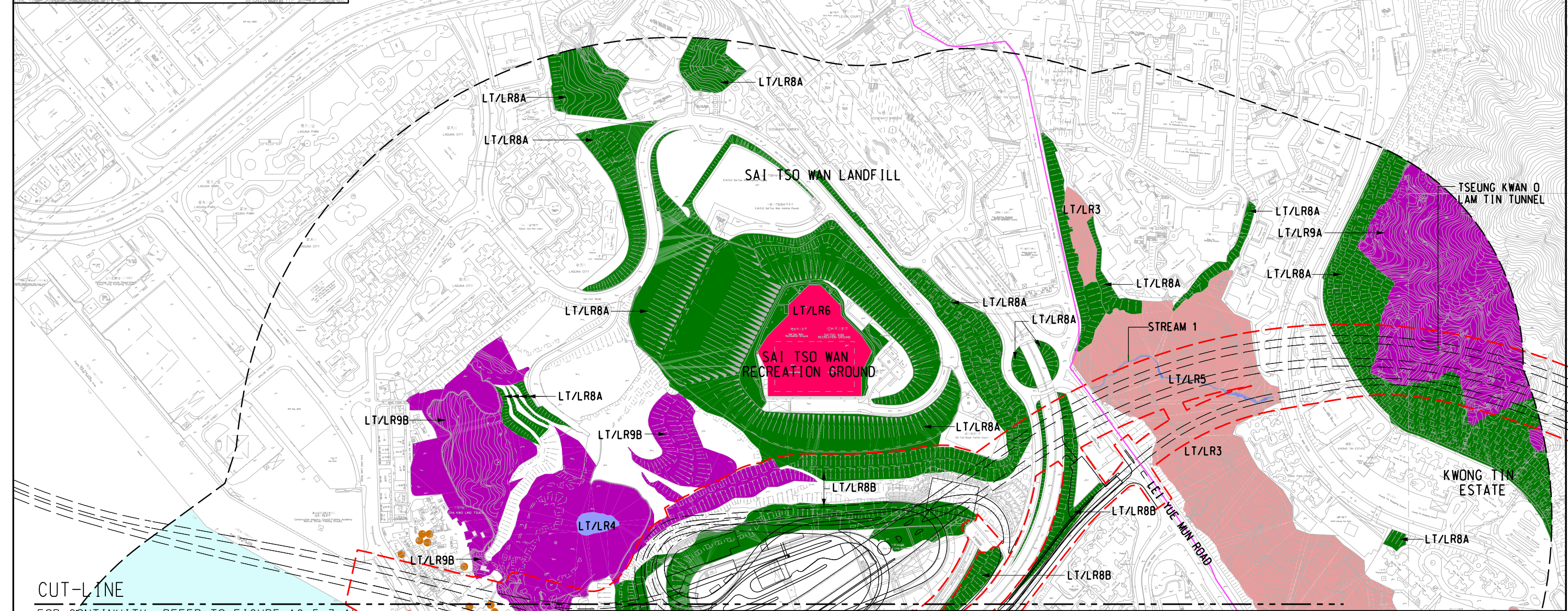
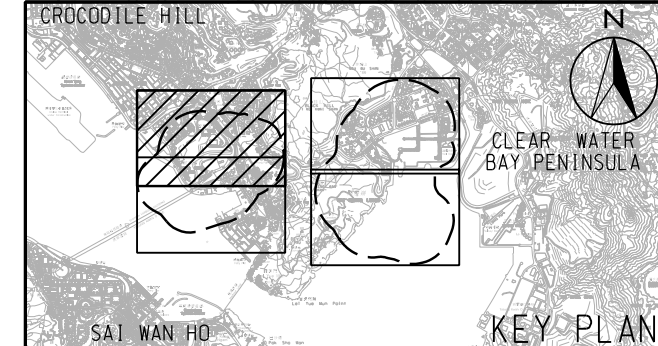
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT HONG KONG



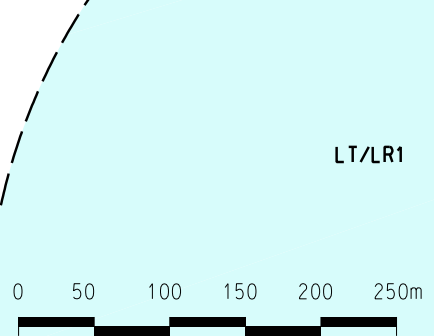
AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
OVERALL VIEW OF BASELINE LANDSCAPE RESOURCES -
TKO AND LAM TIN

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	AC
JOB No.		FIGURE No.	10.5.1.1
		REV	

PLOT DATE: 22/Jan/2013 10:58:01 Amy



CUT-LINE
FOR CONTINUITY, REFER TO FIGURE 10.5.3.1b



LT LEGEND OF LANDSCAPE RESOURCES:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- LANDSCAPE IMPACT STUDY BOUNDARY (500m)
- WILSON TRAIL
- LEI YUE MUN CHANNEL SEA WATERBODY
- TREES WITHIN YAU TONG BAY INDUSTRIAL WATERFRONT AREA (APPROXIMATE EXISTING TREE LOCATION)
- MIXED WOODLAND VEGETATION ON HILLSIDE AREAS
- POND AT CHA KWO LING
- LT/LR5 NATURAL WATERCOURSE
- LT/LR6 GRASS SPORTS PITCH WITHIN SAI TSO WAN RECREATION GROUND
- LT/LR7 VILLAGE TREES WITHIN CHA KWO LING RESIDENTIAL AREA (APPROXIMATE EXISTING TREE LOCATION)
- LT/LR8A AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT SAI TSO WAN
- LT/LR8B AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT FORMER QUARRY
- LT/LR9A GRASSLAND/SHRUBLAND MOSAIC ON NG KWAI SHAN
- LT/LR9B GRASSLAND/SHRUBLAND MOSAIC AT CHA KWO LING

AECOM

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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE LANDSCAPE RESOURCES - LAM TIN

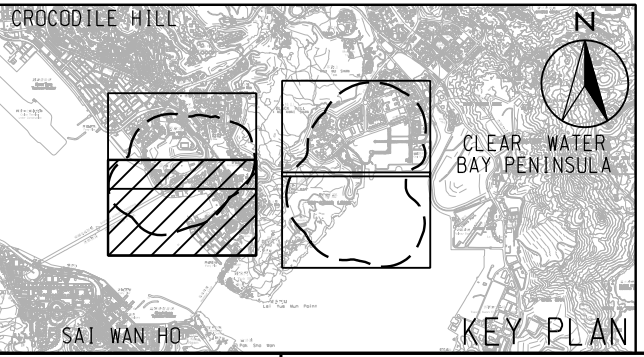
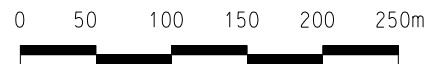
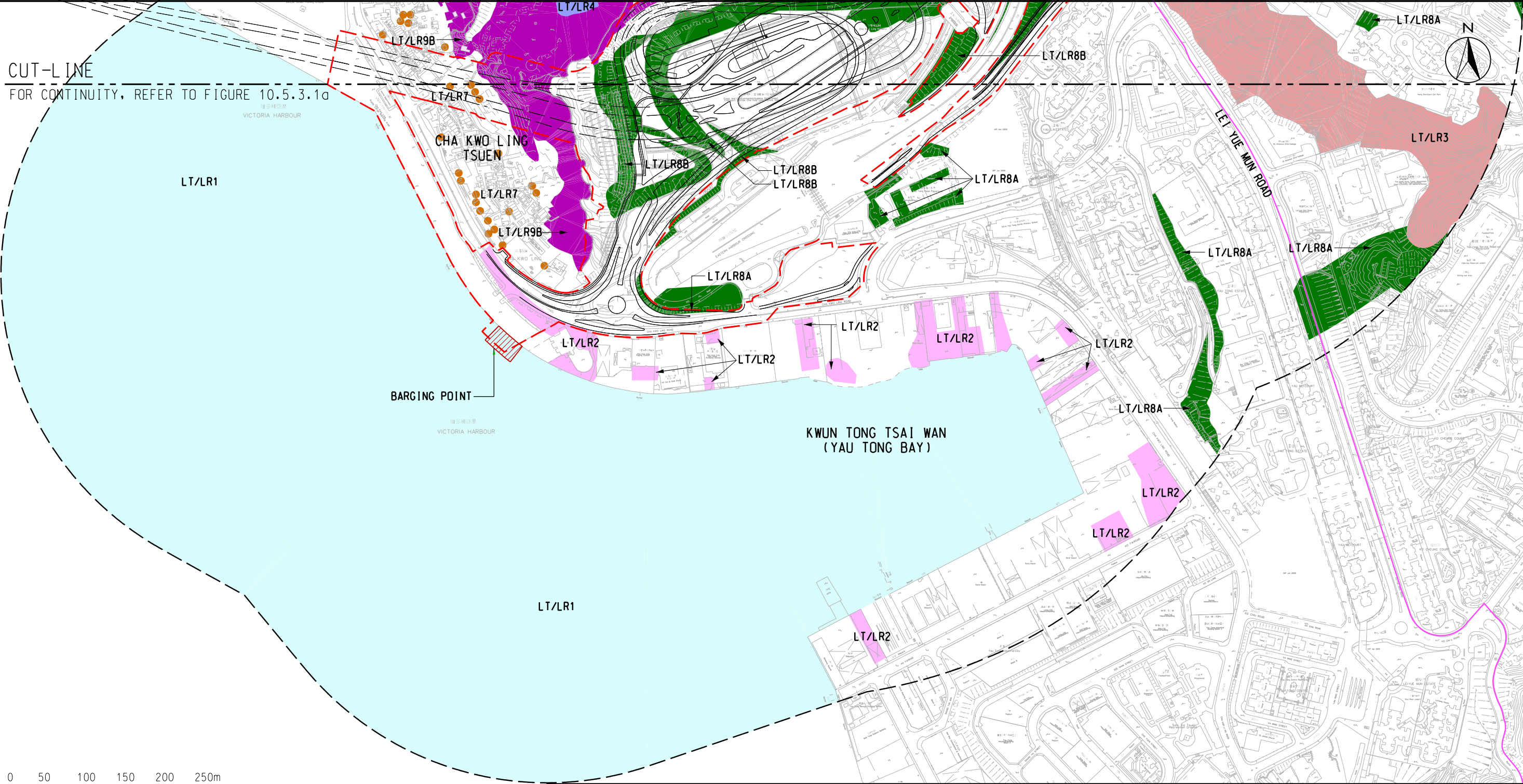
SHEET 1 OF 4

SCALE	A3 1 : 5000	DATE	JAN 2013
CHECK	TO	DRAWN	AC
JOB No.		FIGURE No.	10.5.3.1a
		REV	

PLOT DATE: 05-03-2013 14:29:06

[SZO]J:\MCA75\DGN-GA\figure10_5_3_1a.dgn

CUT-LINE
FOR CONTINUITY, REFER TO FIGURE 10.5.3.1a



LT LEGEND OF LANDSCAPE RESOURCES:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- LANDSCAPE IMPACT STUDY BOUNDARY (500m)
- WILSON TRAIL
- LEI YUE MUN CHANNEL SEA WATERBODY
- TREES WITHIN YAU TONG BAY INDUSTRIAL WATERFRONT AREA (APPROXIMATE EXISTING TREE LOCATION)
- MIXED WOODLAND VEGETATION ON HILLSIDE AREAS
- POND AT CHA KWO LING
- LT/LR5 NATURAL WATERCOURSE
- LT/LR6 GRASS SPORTS PITCH WITHIN SAI TSO WAN RECREATION GROUND
- LT/LR7 VILLAGE TREES WITHIN CHA KWO LING RESIDENTIAL AREA (APPROXIMATE EXISTING TREE LOCATION)
- LT/LR8A AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT SAI TSO WAN
- LT/LR8B AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT FORMER QUARRY
- LT/LR9A GRASSLAND/SHRUBLAND MOSAIC ON NG KWAI SHAN
- LT/LR9B GRASSLAND/SHRUBLAND MOSAIC AT CHA KWO LING

AECOM

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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE LANDSCAPE RESOURCES - LAM TIN

SCALE	A3 1 : 5000	DATE	JAN 2013
CHECK	TO	DRAWN	AC
JOB No.		FIGURE No.	10.5.3.1b
		REV	

[SZO]J:\MCA75\DCN-GA\figure10_5_3_1b.dgn



LT/LR1 Lei Yue Mun Channel Sea Waterbody



LT/LR2 Trees within Yau Tong Bay Industrial Waterfront Area



LT/LR3 Mixed Woodland Vegetation on Hillside Areas



LT/LR4 Pond at Cha Kwo Ling



LT/LR5 Natural Watercourse



LT/LR6 Grass Sports Pitch Within Sai Tso Wan Recreation Ground



LT/LR7 Village Trees Within Cha Kwo Ling Residential Area



LT/LR8A Amenity/Roadside planting/Vegetation on Modified slopes at Sai Tso Wan



LT/LR8B Amenity/Roadside planting/Vegetation on Modified slopes Former Quarry



LT/LR9A Grassland/Shrubland Mosaic on Ng Kwai Shan



LT/LR9B Grassland/Shrubland Mosaic at Cha Kwo Ling

AECOM



CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE LANDSCAPE RESOURCE PHOTOGRAPHS (LT)

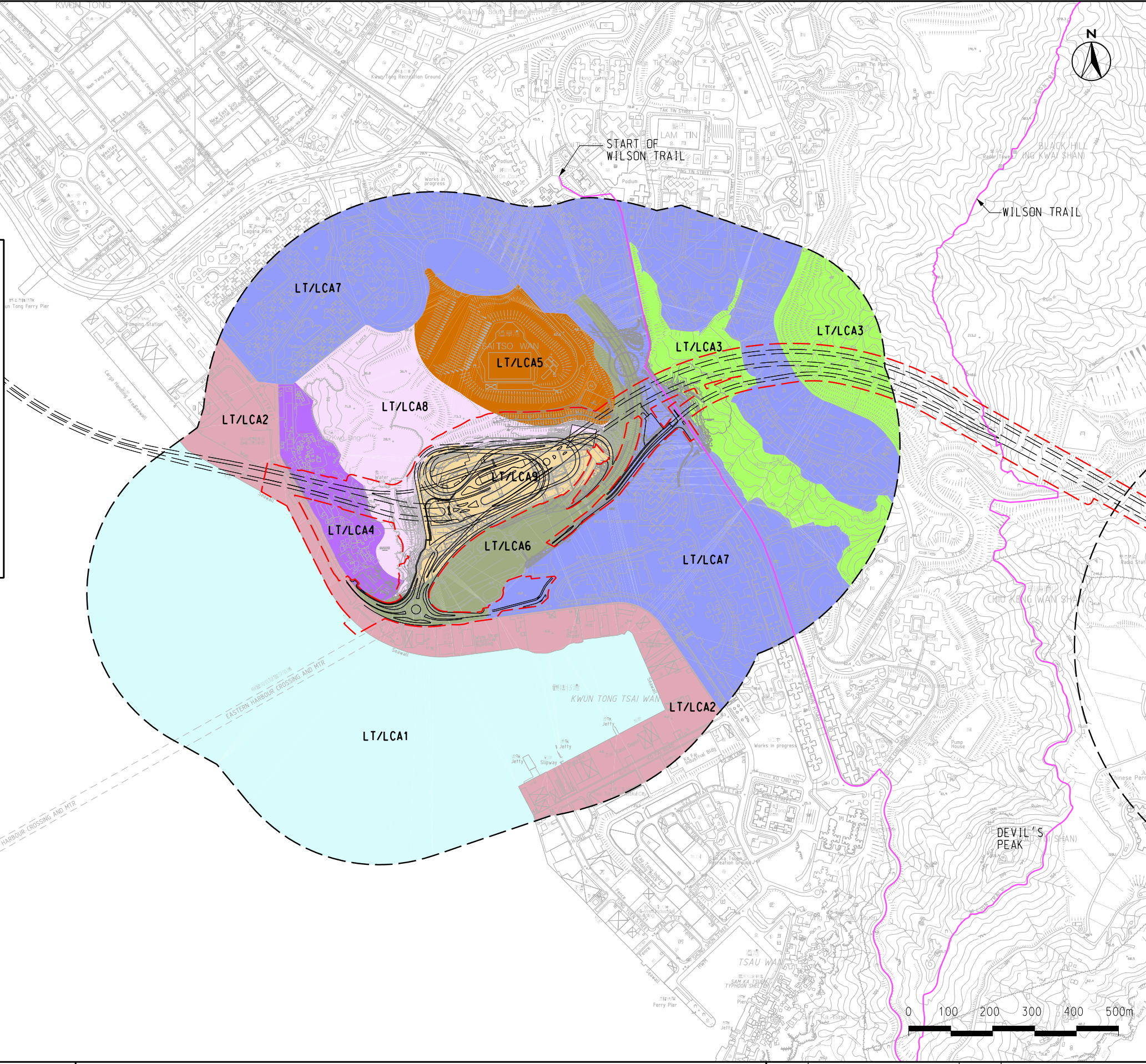
SCALE	N.T.S.	DATE	MAR 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	DRAWING No.	10.5.3.2
		REV	A



KEY PLAN

LT LEGEND OF LANDSCAPE CHARACTER AREAS:

- L.T./ T.K.O TUNNEL SITE BOUNDARY
- LANDSCAPE IMPACT STUDY BOUNDARY (500m)
- WILSON TRAIL
- LT/LCA1 LEI YUE MUN CHANNEL INSHORE WATER LANDSCAPE
- LT/LCA2 YAU TONG BAY COASTAL INDUSTRIAL URBAN LANDSCAPE
- LT/LCA3 LAM TIN UPLAND AND HILLSIDE LANDSCAPE
- LT/LCA4 MISCELLANEOUS URBAN FRINGE LANDSCAPE
- LT/LCA5 URBAN RECREATIONAL LANDSCAPE
- LT/LCA6 URBAN TRANSPORT CORRIDOR
- LT/LCA7 LAM TIN RESIDENTIAL URBAN LANDSCAPE
- LT/LCA8 FORMER QUARRY LANDSCAPE - ABANDONED
- LT/LCA9 FORMER QUARRY LANDSCAPE - OCCUPIED



PLOT DATE: 22/Jan/2013 10:58:59 Amy

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
HONG KONG

AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE LANDSCAPE CHARACTER AREAS - LAM TIN

SCALE	A3 1 : 10000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.	FIGURE No.		REV
	10.5.4.1		



LT/LCA1 Lei Yue Mun Channel Inshore Water Landscape



LT/LCA2 Yau Tong Bay Coastal Industrial Urban Landscape



LT/LCA3 Lam Tin Upland and Hillside Landscape



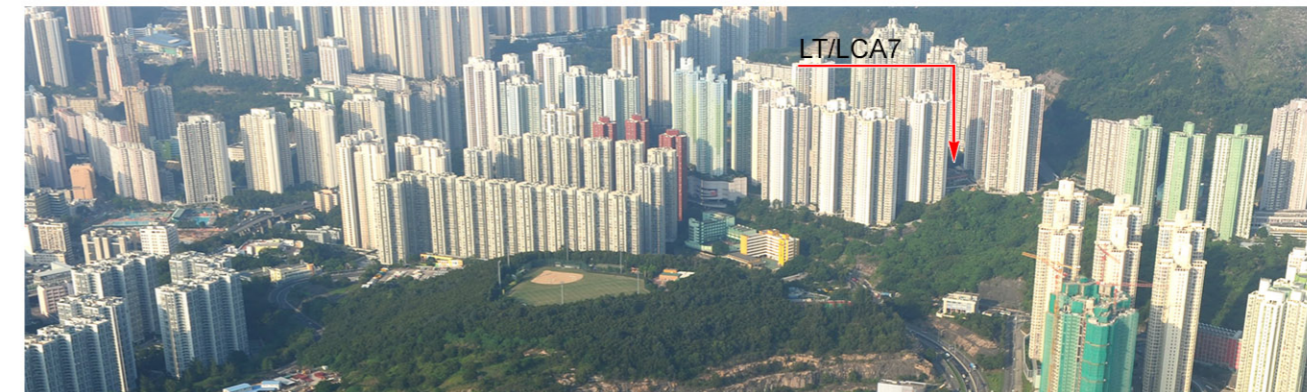
LT/LCA4 Miscellaneous Urban Fringe Landscape



LT/LCA5 Urban Recreational Landscape



LT/LCA6 Urban Transport Corridor



LT/LCA7 Lam Tin Residential Urban Landscape



LT/LCA8 Former Quarry Landscape – Abandoned



LT/LCA9 Former Quarry Landscape – Occupied

AECOM

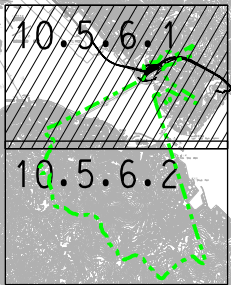


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DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE LANDSCAPE CHARACTER PHOTOGRAPHS (LT)

SCALE	N.T.S.	DATE	JAN 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.4.2
		REV	A



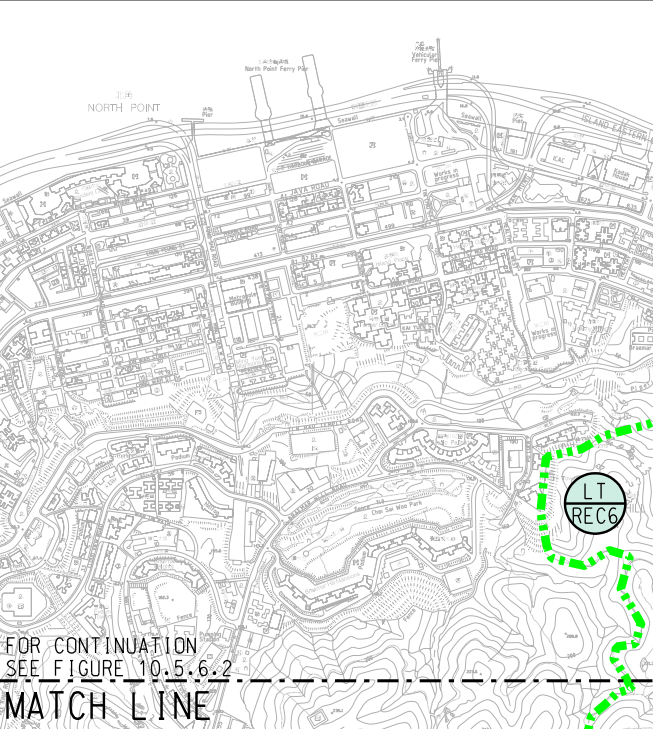
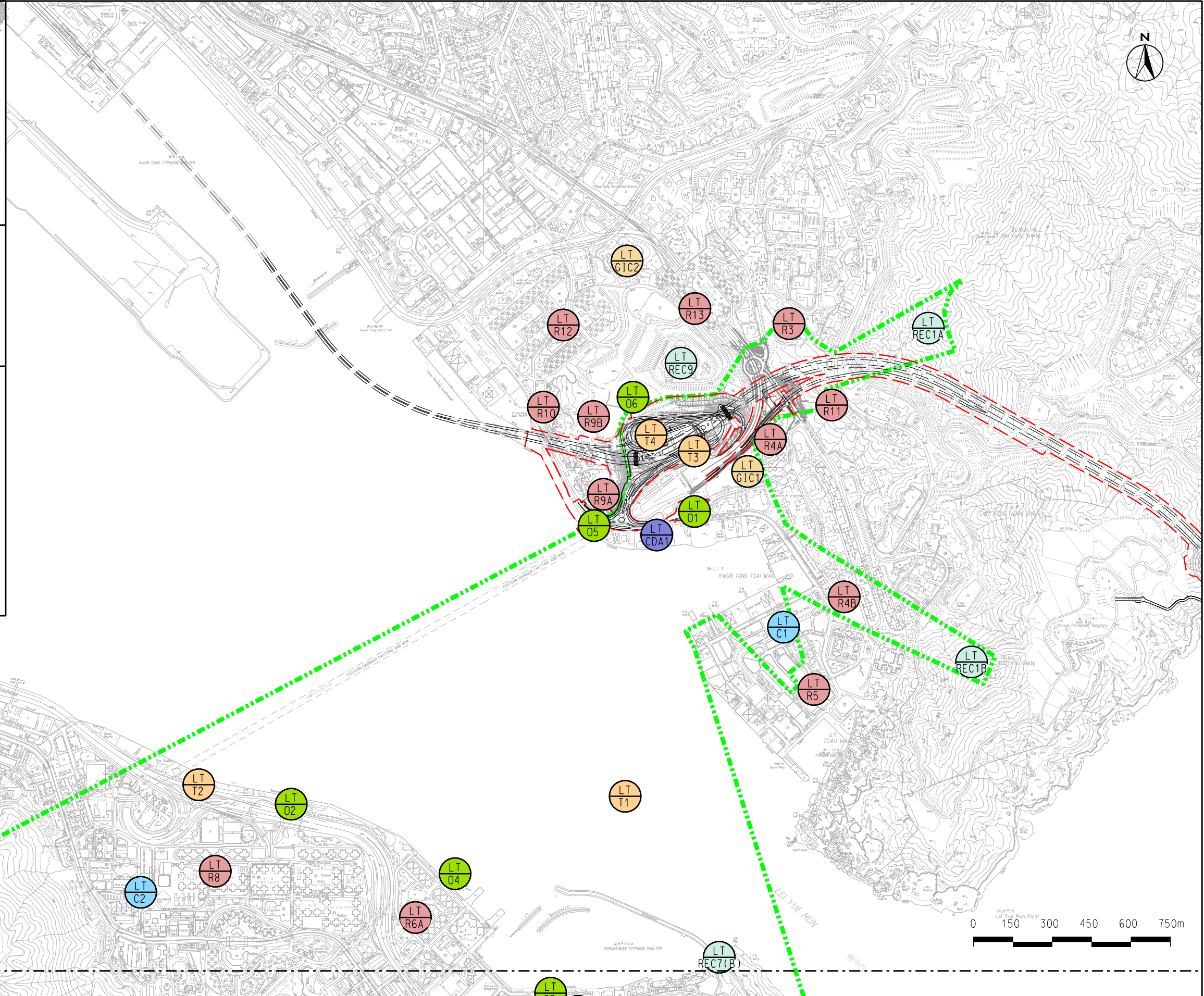
KEY PLAN

LEGEND:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- KEY VSRs FOR LAM TIN

LEGEND TO VSR TYPES:

- COMMERCIAL
- COMPREHENSIVE DEVELOPMENT AREA
- GOVERNMENT, INSTITUTION OR COMMUNITY
- OTHER SPECIFIED USES
- OPEN SPACE
- RESIDENTIAL
- RECREATIONAL
- TRAVELLERS



FOR CONTINUATION SEE FIGURE 10.5.6.2

MATCH LINE

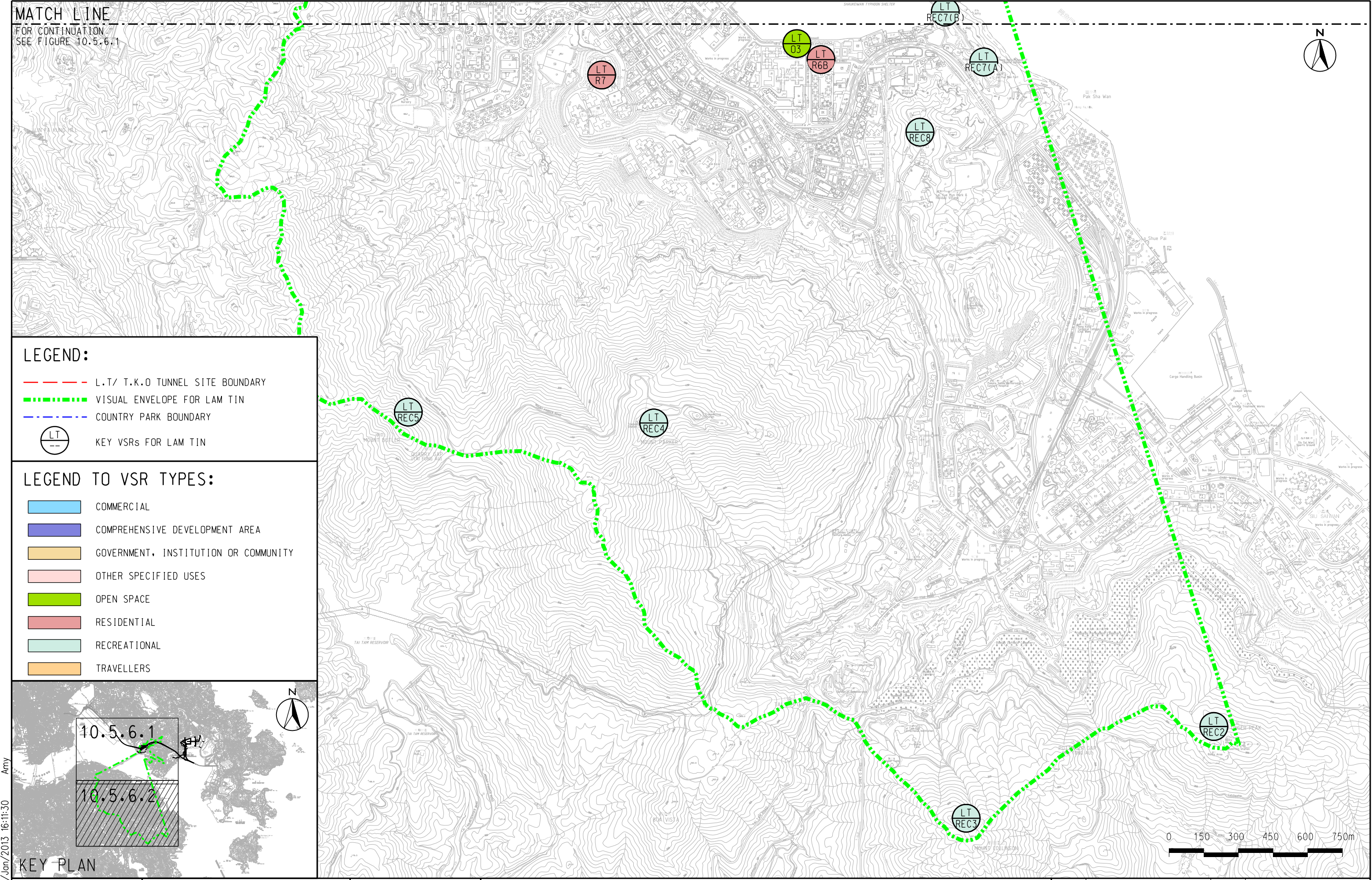


AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE VSRs DURING CONSTRUCTION - LAM TIN

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.5.6.1
		REV	

MATCH LINE

FOR CONTINUATION
SEE FIGURE 10.5.6.1

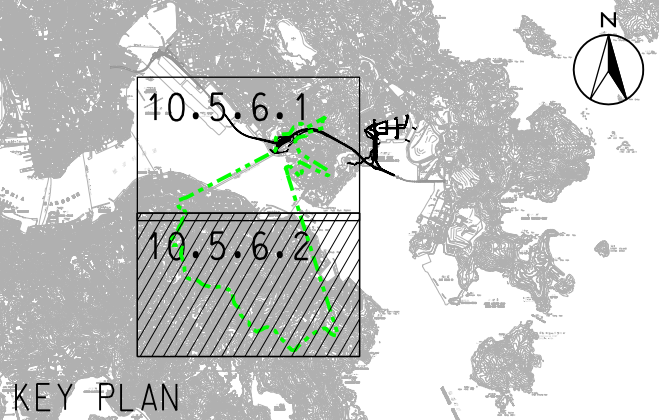


LEGEND:

- L.T./ T.K.O TUNNEL SITE BOUNDARY
- .- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- LT KEY VSRs FOR LAM TIN

LEGEND TO VSR TYPES:

- COMMERCIAL
- COMPREHENSIVE DEVELOPMENT AREA
- GOVERNMENT, INSTITUTION OR COMMUNITY
- OTHER SPECIFIED USES
- OPEN SPACE
- RESIDENTIAL
- RECREATIONAL
- TRAVELLERS



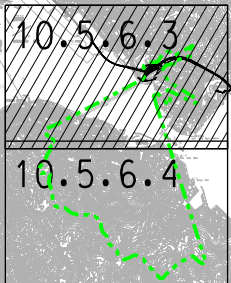
PLOT DATE: 17/Jan/2013 16:11:30 Amy



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE VSRs DURING CONSTRUCTION - LAM TIN

SHEET 2 OF 2

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.5.6.2
		REV	



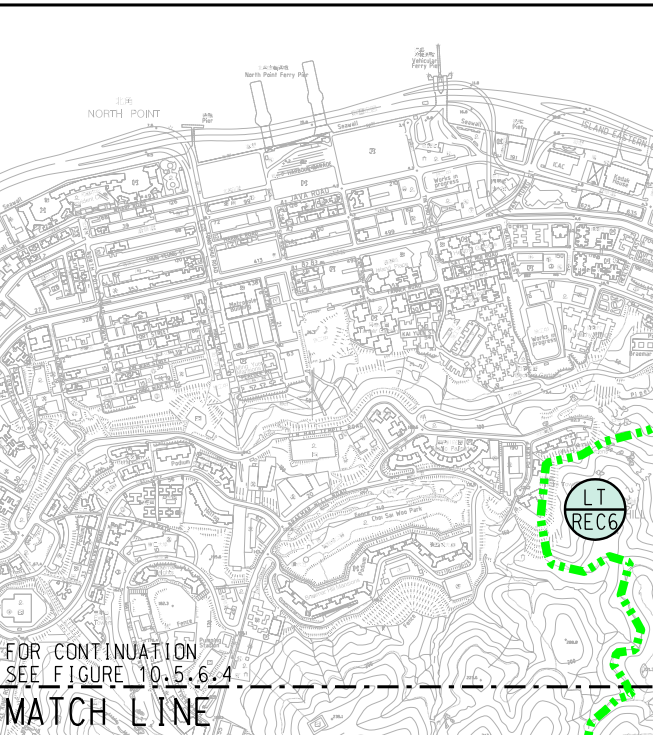
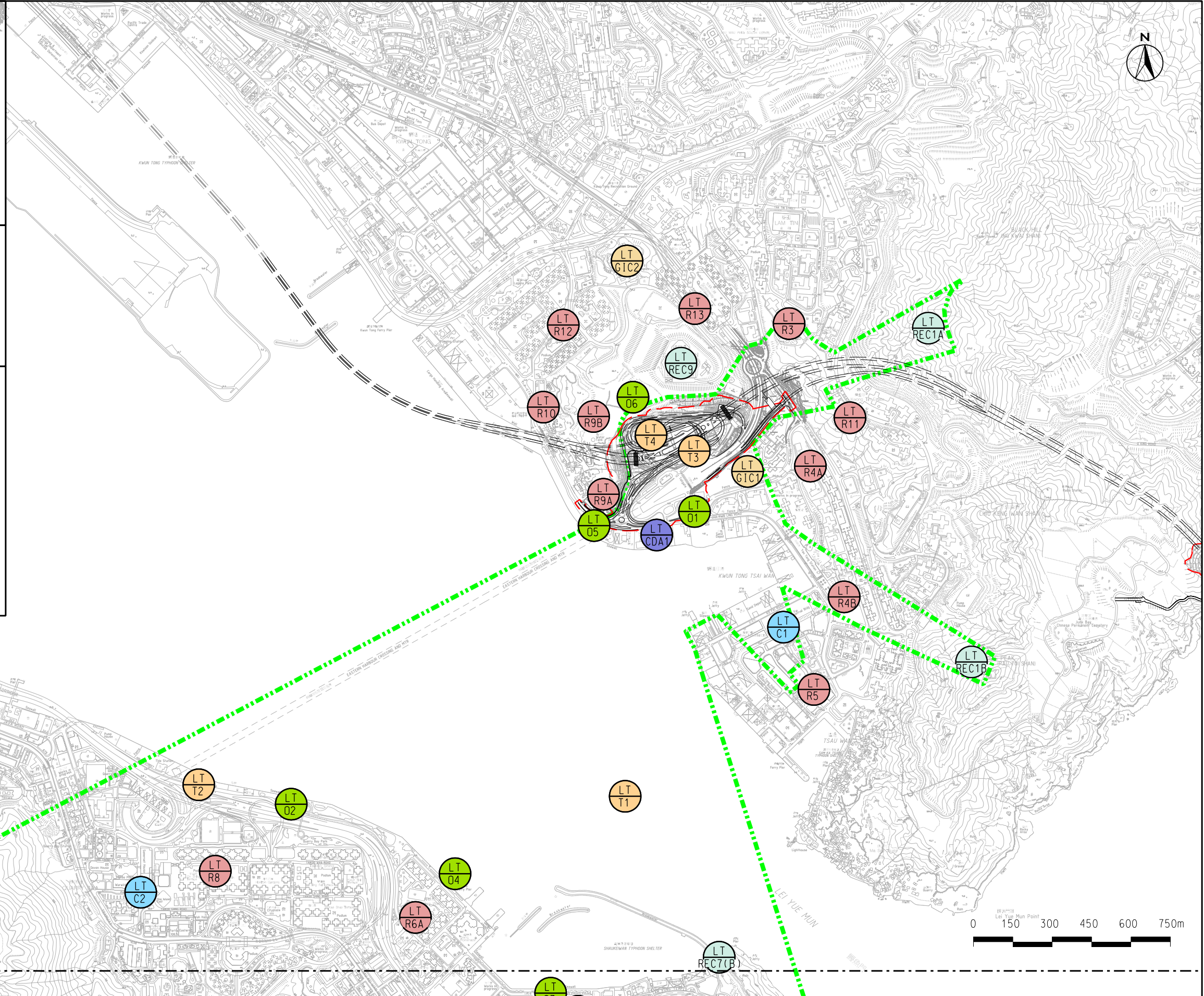
KEY PLAN

LEGEND:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- KEY VSRs FOR LAM TIN

LEGEND TO VSR TYPES:

- COMMERCIAL
- COMPREHENSIVE DEVELOPMENT AREA
- GOVERNMENT, INSTITUTION OR COMMUNITY
- OTHER SPECIFIED USES
- OPEN SPACE
- RESIDENTIAL
- RECREATIONAL
- TRAVELLERS



FOR CONTINUATION SEE FIGURE 10.5.6.4

MATCH LINE

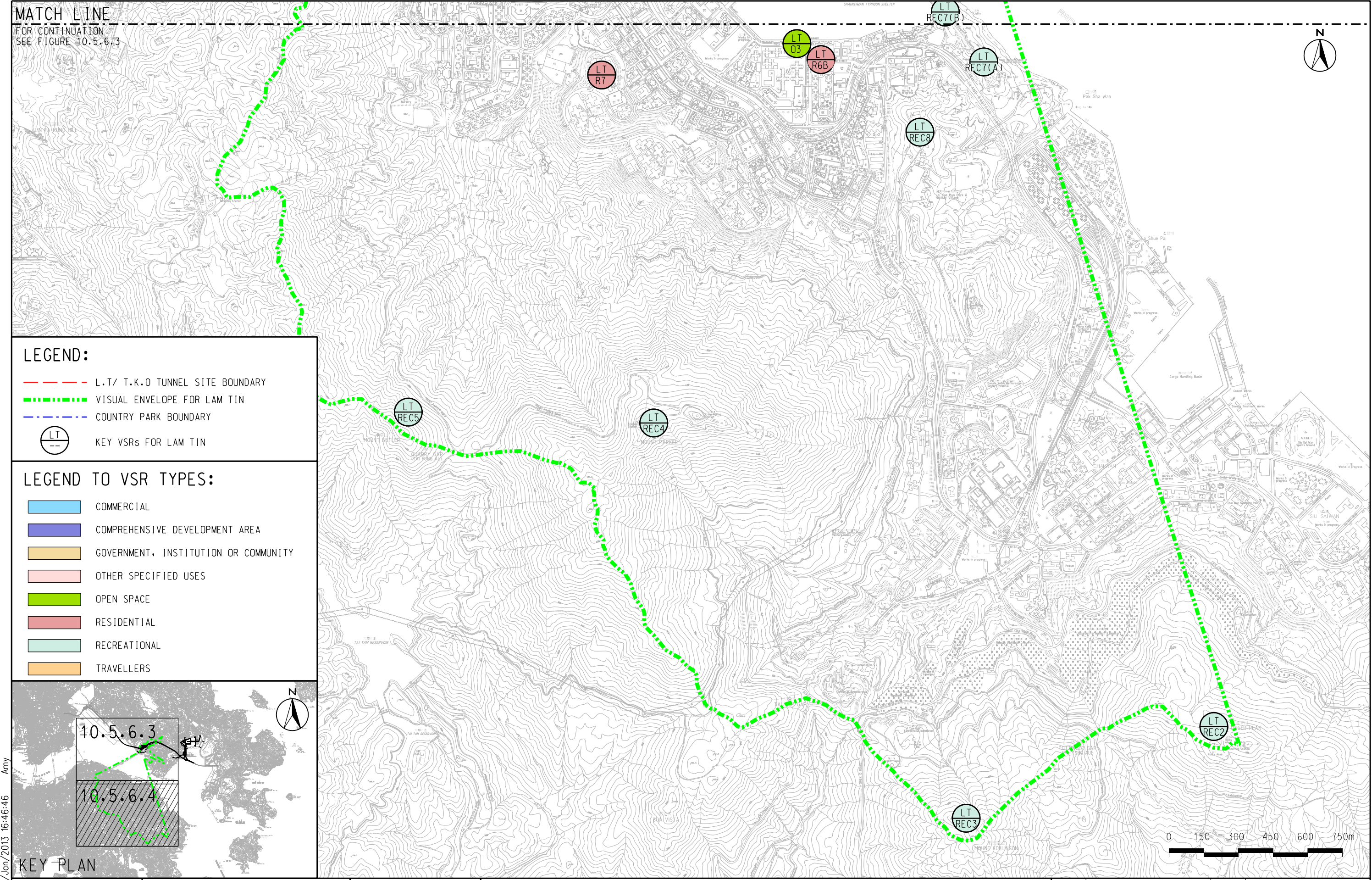


AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE VSRs DURING OPERATION - LAM TIN

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.5.6.3
		REV	

MATCH LINE

FOR CONTINUATION
SEE FIGURE 10.5.6.3

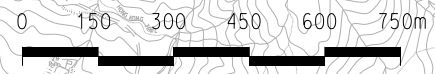
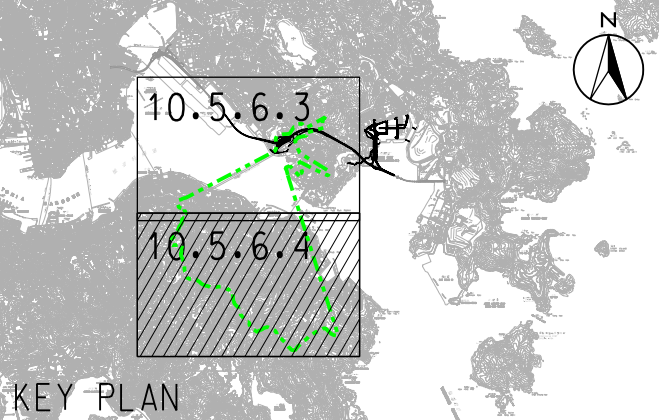


LEGEND:

- L.T./ T.K.O TUNNEL SITE BOUNDARY
- .- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- KEY VSRs FOR LAM TIN

LEGEND TO VSR TYPES:

- COMMERCIAL
- COMPREHENSIVE DEVELOPMENT AREA
- GOVERNMENT, INSTITUTION OR COMMUNITY
- OTHER SPECIFIED USES
- OPEN SPACE
- RESIDENTIAL
- RECREATIONAL
- TRAVELLERS



PLOT DATE: 17/Jan/2013 16:46:46 Amy



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
BASELINE VSRs DURING OPERATION - LAM TIN

SHEET 2 OF 2

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.5.6.4
		REV	



FROM LT-C1 Workers at Yau Tong Industrial Area
TO LT-CDA1 Residents of Yau Tong Bay CDA Development



FROM LT-C2 Office workers in Taikoo Place and One Island East
TO LT-CDA1 Residents of Yau Tong Bay CDA Development

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HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.6.5
		REV	A



FROM LT-GIC1
Staff and Students of schools east of EHC



FROM LT-GIC2
Staff and Students of schools and Government facilities at Rehab Path



FROM LT-R3
Residents of Ping Tin Estate and Hong Ngar Court

AECOM



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HONG KONG



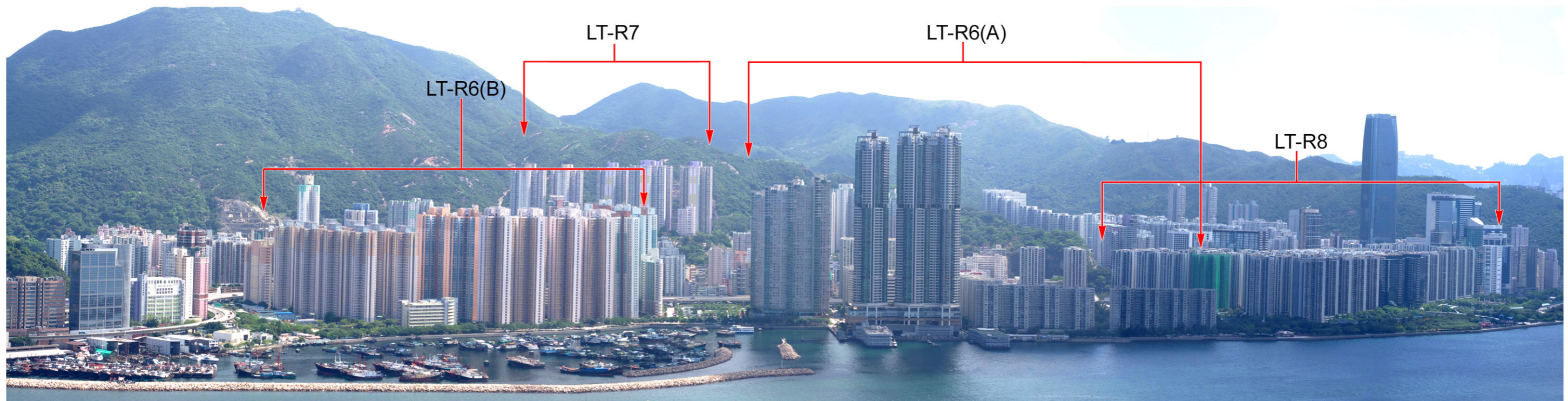
AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.6.6
		REV	A



FROM LT-R5 Residents in Yau Tong - The Canaryside and The Spectacle
 TO LT-R4(A) Residents of Yau Lai Estate
 TO LT-R4(B) Residents of Yau Tong Estate and Yau Mei Court
 TO LT-R12 Residents of Laguna City



TO LT-R6(A) Residents of Sai Wan Ho (Lei King Wan, Grand Promenade, Les Saisons)
 TO LT-R6(B) Residents of Shau Kei Wan (Tung Tao Court, Tung Yuk Court, Aldrich Garden)
 LT-R7 Residents at Sai Wan Ho (Hing Tung Estate, Tung Hei Court, Tung Lam Court)
 LT-R8 Residents at Tai Koo Shing

AECOM



CIVIL ENGINEERING AND
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HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.6.7
		REV	A



TO LT-R9A
Residents at Cha Kwo Ling Village



TO LT-R10
Residents at Fan Wah Street



FROM LT-R11 Residents at Kwong Tin Estate and Hong Pak Court
TO LT-R13 Residents at Sceneway Garden

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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.6.8
		REV	A



FROM LT-REC1(A)
Hikers along Wilson Trail near Black Hill



FROM LT-REC1(B)
Hikers along Wilson Trail at Devil's Peak



FROM LT-REC2
Hikers along Pottinger Trail and Pottinger Peak



FROM LT-REC3
Hikers at Mount Collinson

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TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013	
CHECK	TO	DRAWN	LW	
JOB No.	MCA75	FIGURE No.	10.5.6.9	REV A



TO LT-REC4
Hikers at Mount Parker

LT-REC5
Hikers at Mount Butler

LT-REC6
Hikers at Braemar Hill Lookout



FROM LT-REC6
Hikers at Braemar Hill Lookout

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HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013	
CHECK	TO	DRAWN	LW	
JOB No.	MCA75	FIGURE No.	10.5.6.10	REV A



FROM LT-REC7(A)
Visitors of Lei Yue Mun Fort (H.K. Museum of Coastal Defence)



FROM LT-REC7(B)
Visitors of Lei Yue Mun Observation Post (H.K. Museum of Coastal Defence)

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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013	
CHECK	TO	DRAWN	LW	
JOB No.	MCA75	FIGURE No.	10.5.6.11	REV A



FROM LT-REC8
Visitors of Lei Yue Mun Holiday Village, Lei Yue Mun Park



FROM LT-REC9
Users of Sai Tso Wan and Tennis Courts

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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013	
CHECK	TO	DRAWN	LW	
JOB No.	MCA75	FIGURE No.	10.5.6.12	REV A






FROM LT-REC9
Users of Sai Tso Wan Recreation Ground



FROM LT-O1
Users of Yau Tong Road Playground



FROM LT-O2
Users of Quarry Bay Park

	 CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT HONG KONG		AGREEMENT No. CE 42/2008 (CE) TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION		SCALE	N.T.S.	DATE	JAN 2013		
			BASELINE VSR PHOTOGRAPHS - LT		CHECK	TO	DRAWN	LW		
			JOB No.	MCA75	FIGURE No.	10.5.6.13	REV	A		



FROM LT-03
Visitors to Aldrich Bay Promenade



FROM LT-04
Visitors of Sai Wan Ho Harbour Park

AECOM



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	JAN 2013	
CHECK	TO	DRAWN	LW	
JOB No.	MCA75	FIGURE No.	10.5.6.14	REV A



FROM LT-T1
Seaborne Leisure Travellers along Lei Yue Mun Channel



TO LT-T2
Travellers along Island Eastern Corridor



TO LT-T3
Travellers on Eastern Harbour Crossing Approaches

AECOM



CIVIL ENGINEERING AND
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HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

BASELINE VSR PHOTOGRAPHS - LT

SCALE	N.T.S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.5.6.15
		REV	A

ID No. Construction Phase Mitigation Measures

- CM1** Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.
- CM2** Reduction of construction period to practical minimum.
- CM3** Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.
- CM4** Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).
- CM5** Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.
- CM6** Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.
- CM7** Hydro seeding or sheeting of soil stockpiles with visually unobtrusive material.
- CM8** Control of night-time lighting by hooding all lights and through minimisation of night working periods.
- CM9** Screening of works areas with hoardings with appropriate colours compatible with the surrounding area
- CM10** Avoidance of excessive height and bulk of site buildings and structures
- CM11** Limitation of run-off into adjacent water sea areas
- CM12** Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline character



LEGEND:

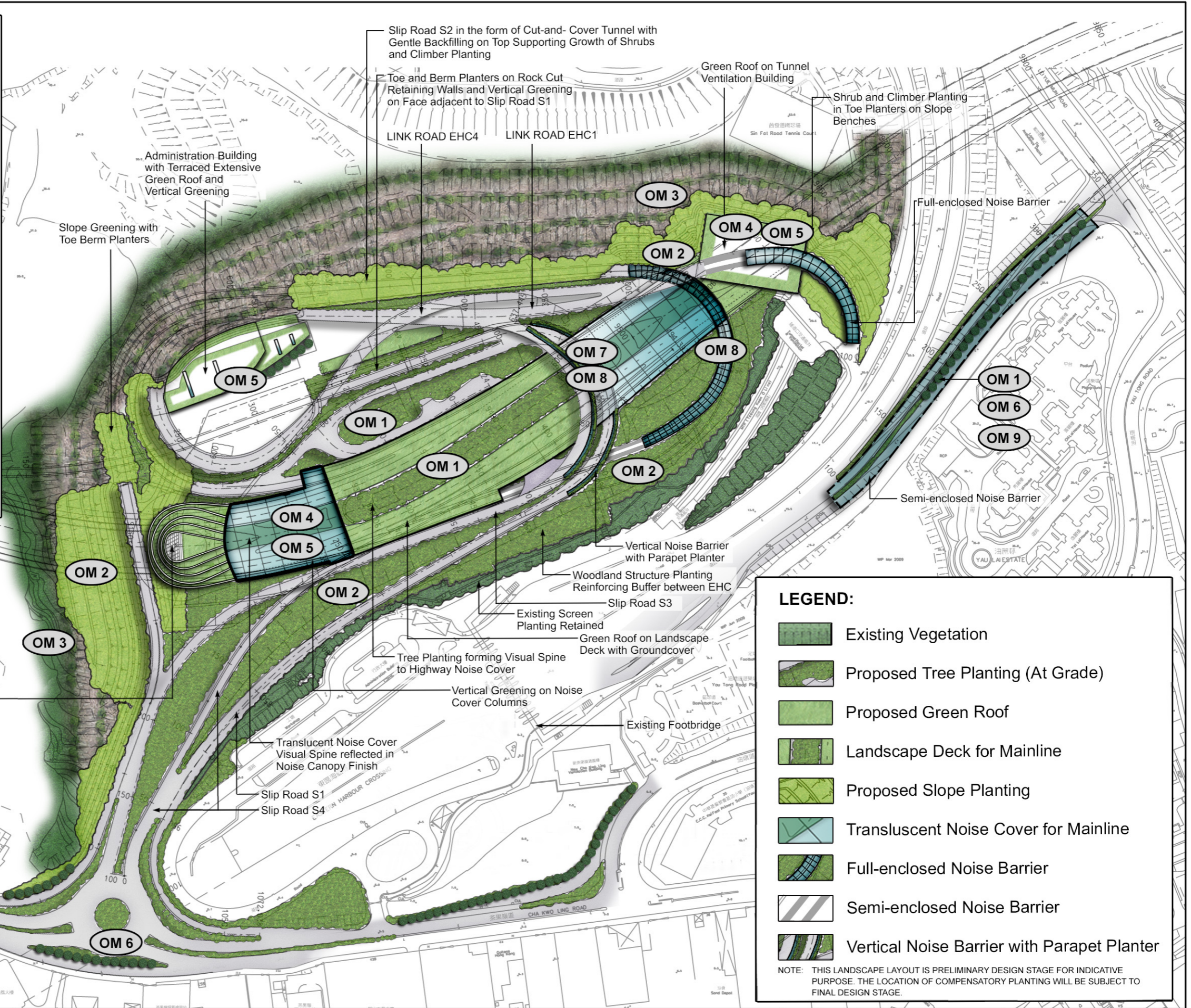
Existing Vegetation



AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LANDSCAPE MITIGATION MEASURES DURING CONSTRUCTION - LAM TIN

SCALE	1 : 2500 @ A3	DATE	MAR 2013
CHECK	TO	DRAWN	LW
JOB NO.	MCA75	FIGURE No.	10.8.3
		REV	D

- ID No. Operation Phase Mitigation Measures**
- OM1** Compensatory Tree Planting for all felled trees to the satisfaction of relevant Government Departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process.
 - OM2** Screen tree planting along the site boundary featuring trees capable of reaching a height >10m within 10 years. Offsite screen planting by agreement may also be considered should space within the site be insufficient.
 - OM3** Slope greening works on all disturbed, new or reinstated slopes including trees, shrubs, groundcover and climbers. The use of unobtrusive colours and tones for all hard elements on slopes (concrete channels, access stairs, railings, catch pits etc) including pigmented concrete and paints.
 - OM4** Sensitive design of buildings and structures in terms of scale, form, height and bulk (visual weight)
 - OM5** Use appropriate (visually unobtrusive and non-reflective) building materials and colours in buildings and structures.
 - OM6** Streetscape and highway elements (e.g. paving, signage, street furniture, lighting etc.) sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units to be directional and minimise unnecessary light spill.
 - OM7** Greening measures on elevated road sections where practical.
 - OM8** Sensitive design of footbridges, noise barriers and enclosures with greening (screen planting/climbers/green roofs) and chromatic measures.
 - OM9** Additional greening measures for streetscape and building associated with infrastructure for further development and optimization of the overall greening effect with the Project Area.



LEGEND:

- Existing Vegetation
- Proposed Tree Planting (At Grade)
- Proposed Green Roof
- Landscape Deck for Mainline
- Proposed Slope Planting
- Translucent Noise Cover for Mainline
- Full-enclosed Noise Barrier
- Semi-enclosed Noise Barrier
- Vertical Noise Barrier with Parapet Planter

NOTE: THIS LANDSCAPE LAYOUT IS PRELIMINARY DESIGN STAGE FOR INDICATIVE PURPOSE. THE LOCATION OF COMPENSATORY PLANTING WILL BE SUBJECT TO FINAL DESIGN STAGE.



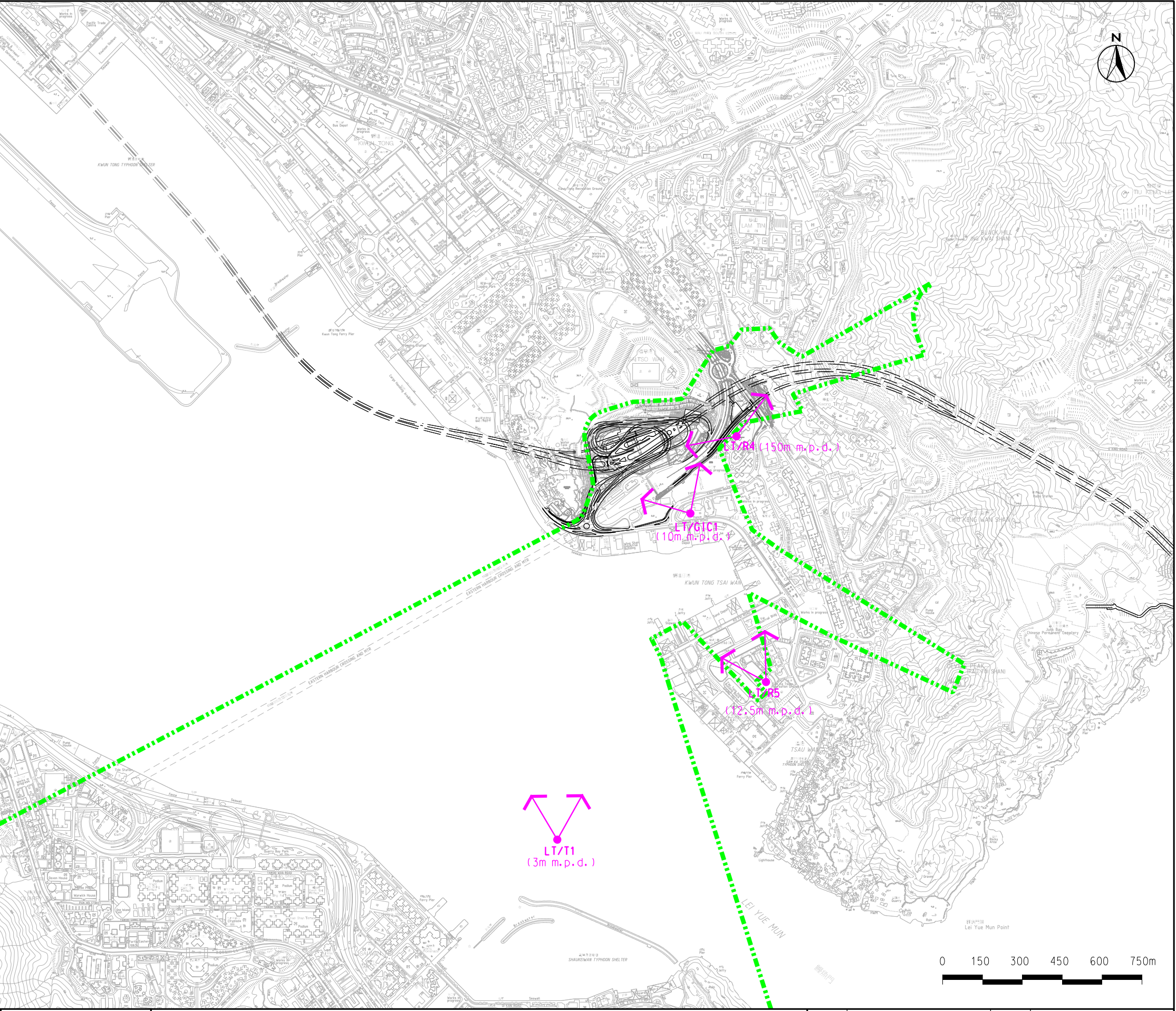
AGREEMENT No. CE 42/2008 (CE)
 TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
LANDSCAPE MITIGATION MEASURES DURING OPERATION - LAM TIN

SCALE	1 : 2500 @ A3	DATE	MAR 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.8.4
		REV	E

LEGEND:

- · - · - · VISUAL ENVELOPE FOR LAM TIN
- - - - - COUNTRY PARK BOUNDARY
- ↖ ↗ PHOTOMONTAGE VIEWPOINT

VSR	VIEW POINT LOCATION
LT/T1	SEABORNE TRAVELLERS ALONG LEI YUE MUN CHANNEL
LT/GIC1	STAFF & PUPILS AT KEI FAT PRIMARY SCHOOL
LT/R5	RESIDENTS IN THE SPECTACLE, YAU TONG
LT/R4	RESIDENTS IN YAU LAI ESTATE



PLOT DATE: 22/Jan/2013 11:02:06 Amy



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE KEY PLAN - LAM TIN

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.8.7.1
		REV	



EXISTING CONDITION



DAY 1 WITHOUT MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / T1 (SHEET 1 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB NO.	MCA75	FIGURE No.	10.8.7.2
		REV	



DAY 1 WITH MITIGATION MEASURES



YEAR 10 WITH MITIGATION MEASURES

AECOM



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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / T1 (SHEET 2 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB NO.	MCA75	FIGURE No.	10.8.7.3
		REV	



EXISTING CONDITION



DAY 1 WITHOUT MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / GIC1(SHEET 1 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.8.7.4
		REV	



DAY 1 WITH MITIGATION MEASURES



YEAR 10 WITH MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / GIC1(SHEET 2 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.8.7.5
		REV	



EXISTING CONDITION



DAY 1 WITHOUT MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
DEVELOPMENT DEPARTMENT
HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / R5 (SHEET 1 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.8.7.6
		REV	



DAY 1 WITH MITIGATION MEASURES



YEAR 10 WITH MITIGATION MEASURES

AECOM

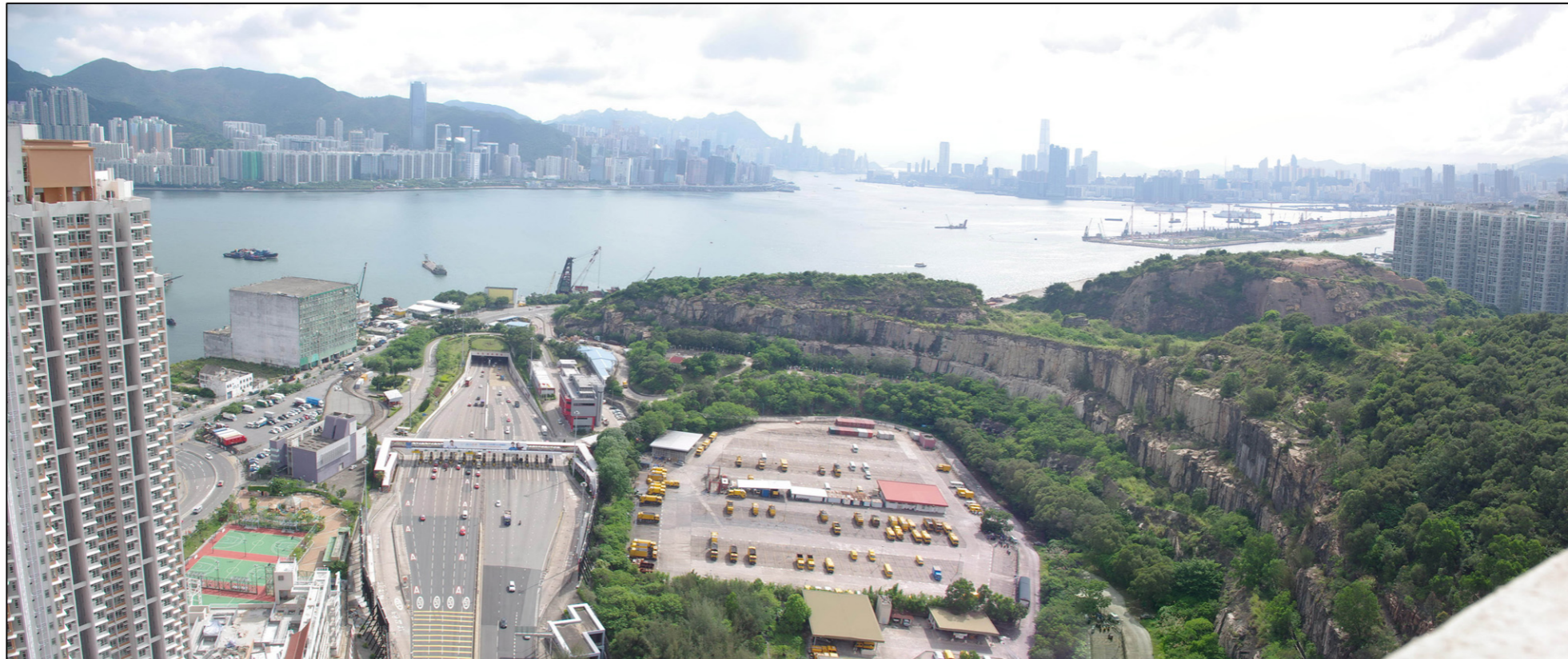


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DEVELOPMENT DEPARTMENT
HONG KONG

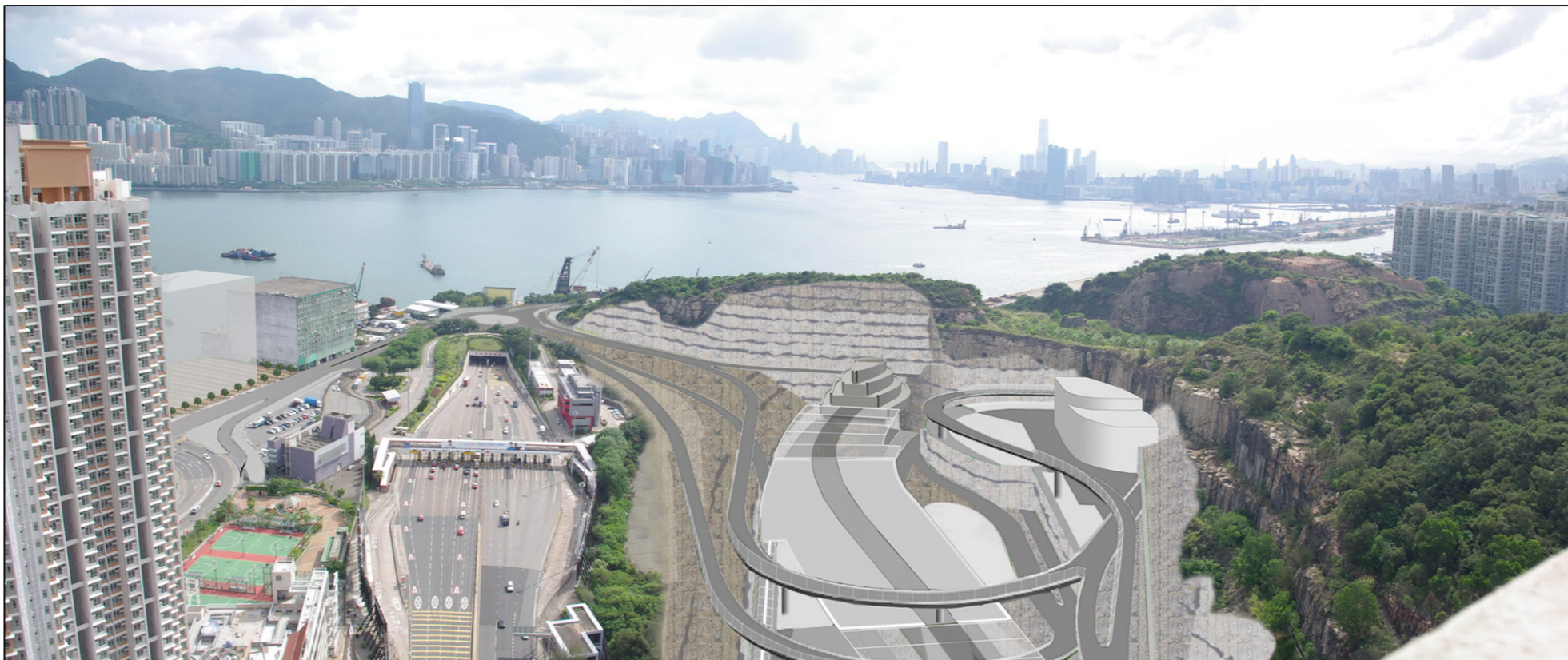


AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / R5 (SHEET 2 OF 2)

SCALE	N. T. S.	DATE	FEB 2013
CHECK	TO	DRAWN	LW
JOB No.	MCA75	FIGURE No.	10.8.7.7
		REV	



EXISTING CONDITION



DAY 1 WITHOUT MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / R4 (SHEET 1 OF 2)

SCALE	N. T. S.	DATE	MAR 2013
CHECK	TO	DRAWN	LW
JOB NO.	MCA75	FIGURE No.	10.8.7.8
		REV	A



DAY 1 WITH MITIGATION MEASURES



YEAR 10 WITH MITIGATION MEASURES

AECOM



CIVIL ENGINEERING AND
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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
PHOTOMONTAGE FROM VSR LT / R4 (SHEET 2 OF 2)

SCALE	N. T. S.	DATE	MAR 2013
CHECK	TO	DRAWN	LW
JOB NO.	MCA75	FIGURE No.	10.8.7.9
		REV	A

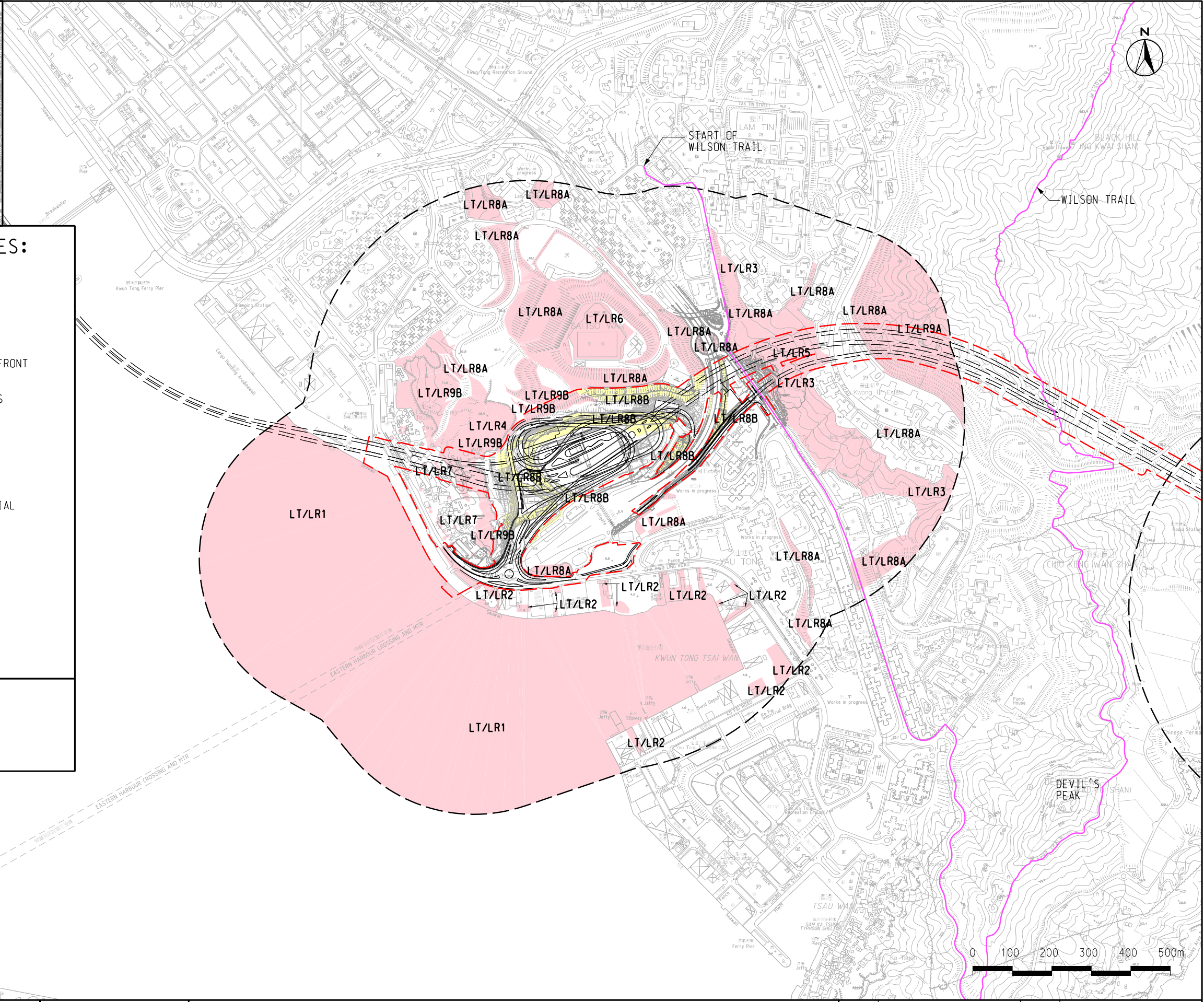


KEY PLAN

LT LEGEND OF LANDSCAPE RESOURCES:

- L.T./ T.K.O TUNNEL SITE BOUNDARY
- LANDSCAPE IMPACT STUDY BOUNDARY (500m)
- WILSON TRAIL
- LT/LR1 LEI YUE MUN CHANNEL SEA WATERBODY
- LT/LR2 TREES WITHIN YAU TONG BAY INDUSTRIAL WATERFRONT AREA (APPROXIMATE EXISTING TREE LOCATION)
- LT/LR3 MIXED WOODLAND VEGETATION ON HILLSIDE AREAS
- LT/LR4 POND AT CHA KWO LING
- LT/LR5 NATURAL WATERCOURSE
- LT/LR6 GRASS SPORTS PITCH WITHIN SAI TSO WAN RECREATION GROUND
- LT/LR7 VILLAGE TREES WITHIN CHA KWO LING RESIDENTIAL AREA (APPROXIMATE EXISTING TREE LOCATION)
- LT/LR8A AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT SAI TSO WAN
- LT/LR8B AMENITY/ROADSIDE PLANTING/VEGETATION ON MODIFIED SLOPES AT FORMER QUARRY
- LT/LR9A GRASSLAND/SHRUBLAND MOSAIC ON NG KWAI SHAN
- LT/LR9B GRASSLAND/SHRUBLAND MOSAIC AT CHA KWO LING

- INSUBSTANTIAL
- SLIGHT
- MODERATE



PLOT DATE: 05-03-2013 14:35:22





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AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
**RESIDUAL IMPACTS ON LANDSCAPE RESOURCES WITH
MITIGATION, YEAR 10 - LAM TIN**

SCALE	A3 1 : 10000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	REV
		10.9.2	

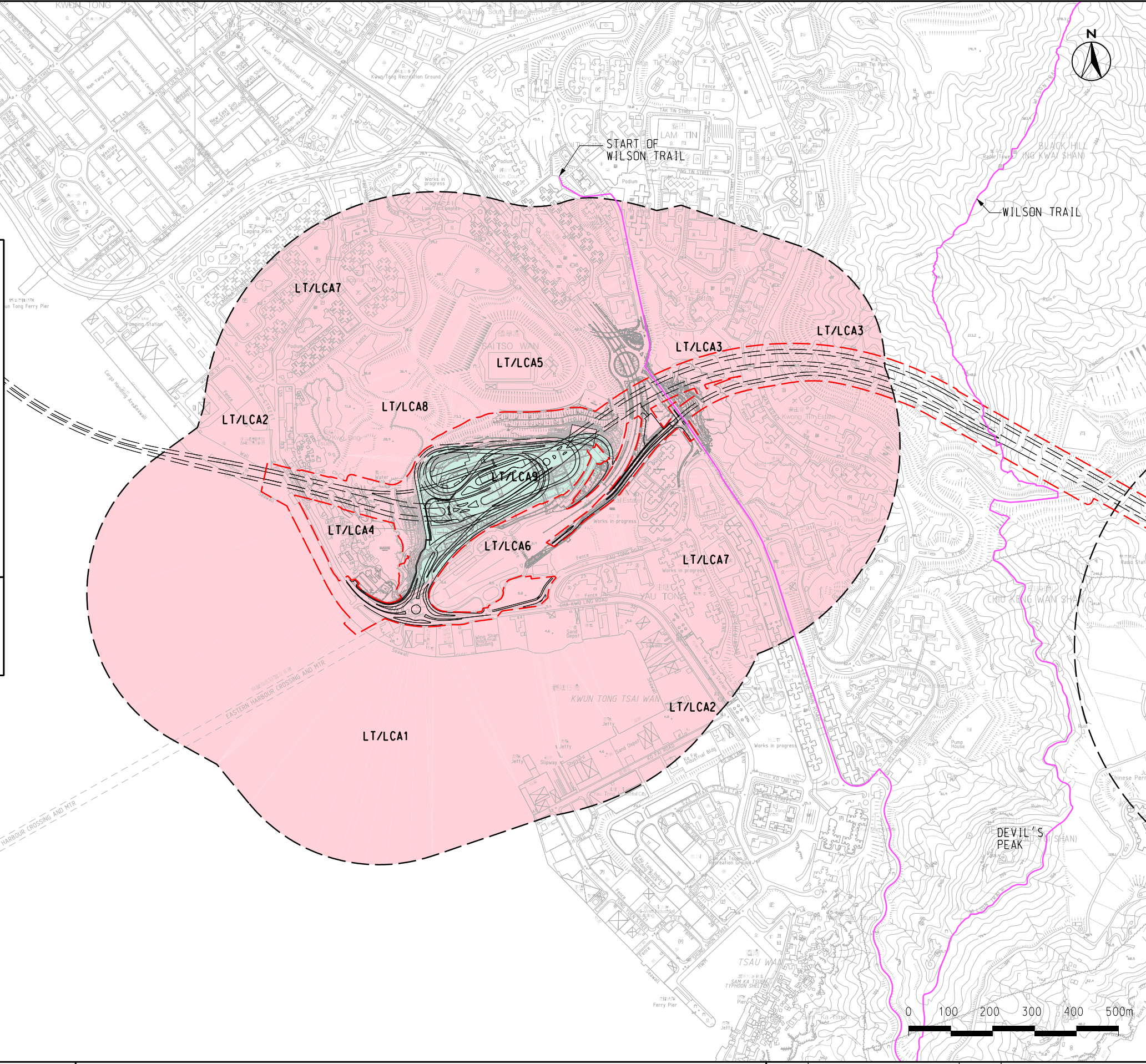


KEY PLAN

LT LEGEND OF LANDSCAPE CHARACTER AREAS:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- LANDSCAPE IMPACT STUDY BOUNDARY (500m)
- WILSON TRAIL
- LT/LCA1 LEI YUE MUN CHANNEL INSHORE WATER LANDSCAPE
- LT/LCA2 YAU TONG BAY COASTAL INDUSTRIAL URBAN LANDSCAPE
- LT/LCA3 LAM TIN UPLAND AND HILLSIDE LANDSCAPE
- LT/LCA4 MISCELLANEOUS URBAN FRINGE LANDSCAPE
- LT/LCA5 URBAN RECREATIONAL LANDSCAPE
- LT/LCA6 URBAN TRANSPORT CORRIDOR
- LT/LCA7 LAM TIN RESIDENTIAL URBAN LANDSCAPE
- LT/LCA8 FORMER QUARRY LANDSCAPE - ABANDONED
- LT/LCA9 FORMER QUARRY LANDSCAPE - OCCUPIED

- INSUBSTANTIAL
- SLIGHT
- MODERATE



PLOT DATE: 25/Feb/2013 10:27:47 jimmy



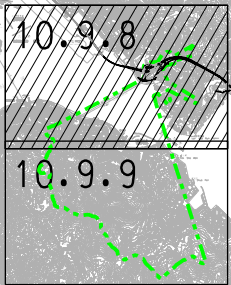


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HONG KONG



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
**RESIDUAL IMPACTS ON LANDSCAPE CHARACTER AREAS WITH
MITIGATION, YEAR 10 - LAM TIN**

SCALE	A3 1 : 10000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.	FIGURE No.		REV
	10.9.4		

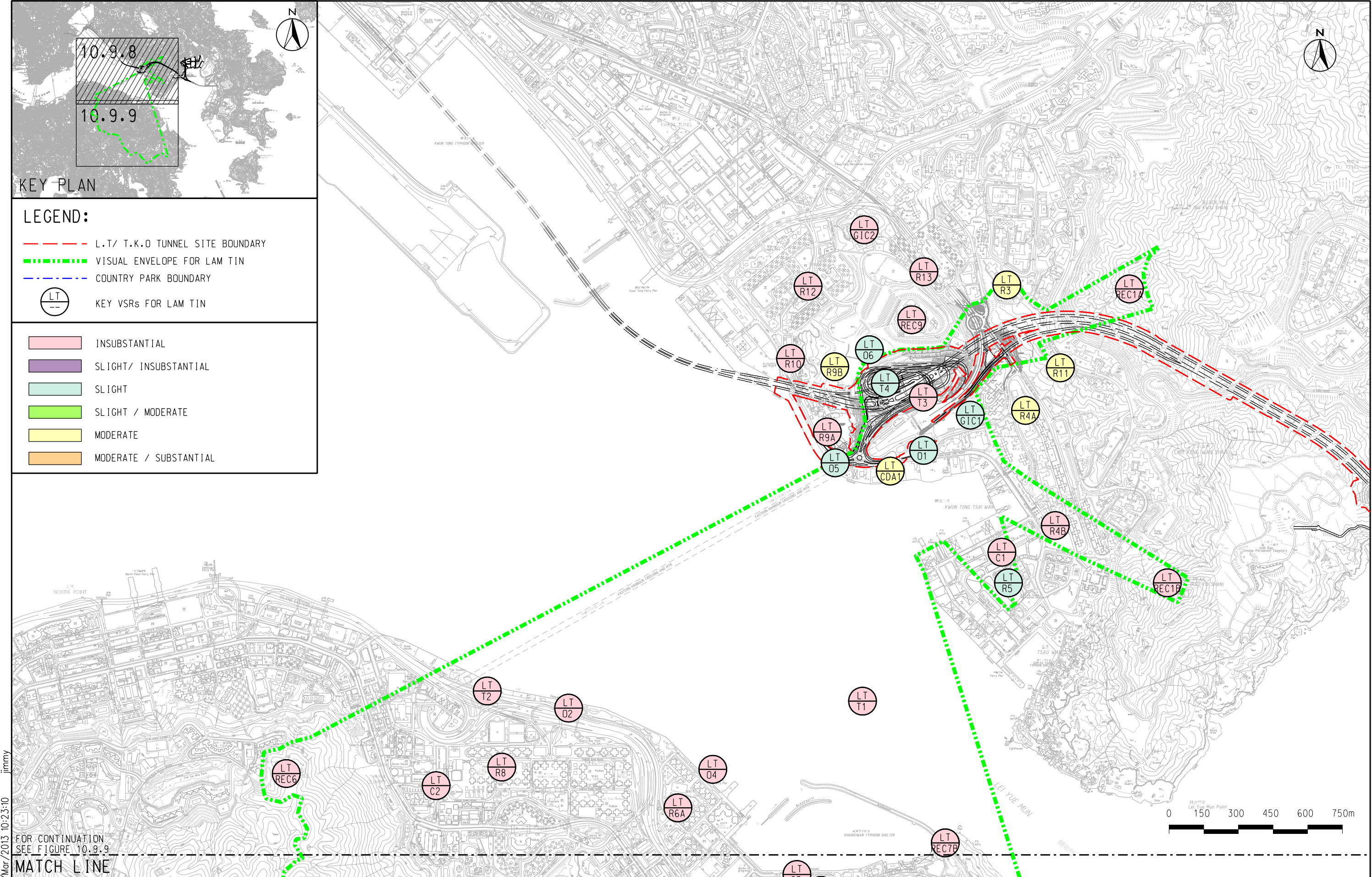


KEY PLAN

LEGEND:

- L.T/ T.K.O TUNNEL SITE BOUNDARY
- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- KEY VSRs FOR LAM TIN

- INSUBSTANTIAL
- SLIGHT/ INSUBSTANTIAL
- SLIGHT
- SLIGHT / MODERATE
- MODERATE
- MODERATE / SUBSTANTIAL



FOR CONTINUATION SEE FIGURE 10.9.9

MATCH LINE

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
HONG KONG

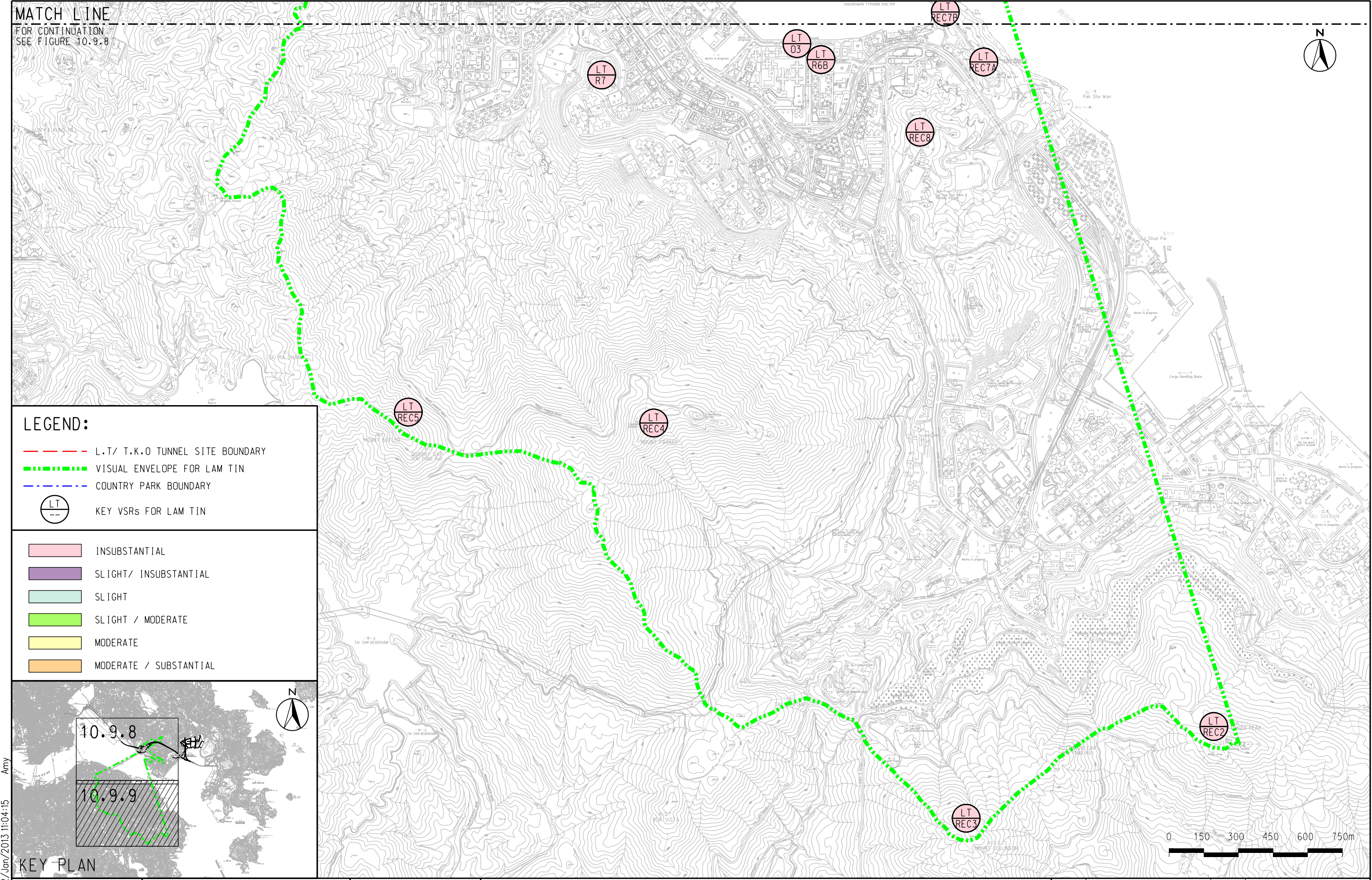
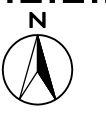
AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION
RESIDUAL IMPACTS ON VSRs, YEAR 10 - LAM TIN

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.9.8
		REV	

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MATCH LINE

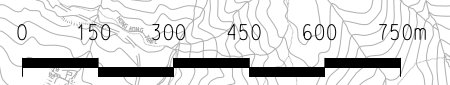
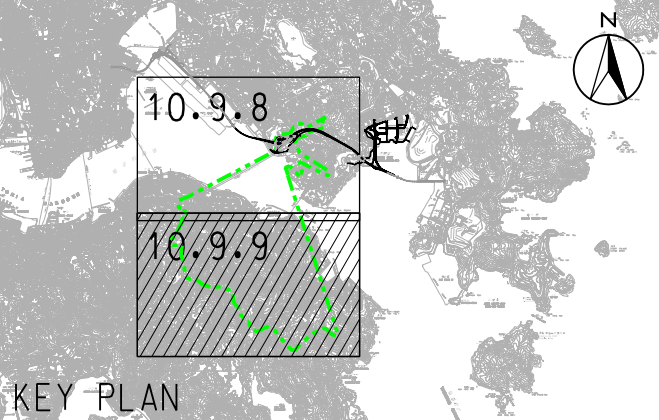
FOR CONTINUATION
SEE FIGURE 10.9.8



LEGEND:

- L.T./ T.K.O TUNNEL SITE BOUNDARY
- VISUAL ENVELOPE FOR LAM TIN
- COUNTRY PARK BOUNDARY
- KEY VSRs FOR LAM TIN

- INSUBSTANTIAL
- SLIGHT/ INSUBSTANTIAL
- SLIGHT
- SLIGHT / MODERATE
- MODERATE
- MODERATE / SUBSTANTIAL



PLOT DATE: 22/Jan/2013 11:04:15 Amy



AGREEMENT No. CE 42/2008 (CE)
TSEUNG KWAN O - LAM TIN TUNNEL AND ASSOCIATED WORKS - INVESTIGATION

RESIDUAL IMPACTS ON VSRs, YEAR 10 - LAM TIN

SHEET 2 OF 2

SCALE	A3 1 : 15000	DATE	JAN 2013
CHECK	TO	DRAWN	FL
JOB No.		FIGURE No.	10.9.9
		REV	